

Introduction

This latest edition of the GE product catalog has been updated to help you more easily select the GE lighting products that best meet your needs.

Technical data in this catalog (life, lumens, wattage, etc.) are nominal values, subject to manufacturer's tolerances. All technical data in this catalog is based on laboratory tests conducted under controlled conditions. Performance of individual lamps may vary. Because of frequent design improvements, the values listed may not be current ratings. The data and suggested applications should not be taken as representations or warranties as to the suitability of any product for a particular application. Technical bulletins may be issued from time to time if changes in ratings occur prior to the next catalog printing.

Technical Support

1-800-GE LAMPS
1-888-GE BALLAST
 (1-888-432-2552)

For the most up-to-date, comprehensive product information, visit the GE Lighting website at www.gelighting.com.

| | |
|--|------------|
| Introduction/Overview to Lamps and Ballasts | A |
| Quick Reference Lamp to Ballast Selection Guide..... | B |
| Quick Reference Ballast Selection Guide..... | C |
| Incandescent Lamps | Section 1 |
| Halogen Lamps | Section 2 |
| High Intensity Discharge Lamps..... | Section 3 |
| Fluorescent Lamps | Section 4 |
| Compact Fluorescent Lamps..... | Section 5 |
| LED Lamps, Tubes and Modules..... | Section 6 |
| Stage and Studio Lamps..... | Section 7 |
| Miniature, Sealed Beam and Automotive Lamps | Section 8 |
| Projection Lamps | Section 9 |
| Ballasts: T8 Instant Start..... | Section 10 |
| Ballasts: T8 Programmed Start | Section 11 |
| Ballasts: T8/T5 Dimming | Section 12 |
| Ballasts: T5 Electronic Programmed Start | Section 13 |
| Ballasts: T12 Electronic and High Output | Section 14 |
| Ballasts: Magnetic | Section 15 |
| Ballasts: Sign | Section 16 |
| Ballasts: Compact Fluorescent..... | Section 17 |
| Ballasts: HID Electronic and Electromagnetic..... | Section 18 |
| LED Drivers and Halogen Transformers..... | Section 19 |
| LED Systems | Section 20 |
| Controls | Section 21 |
| Appendix/Glossary | Section D |
| Product Warranty Information | Section E |
| Index..... | Section F |



imagination at work

Introduction

GE
Lighting

Leading the way to environmental excellence

Learn how these top 3 environmental impacts affect your business

Today, with so much environmental data in the market place, it's hard to differentiate which imperatives positively affect your business. For instance, a longer lamp life may be environmentally preferable compared to shorter life lamps.

GE is focused on today's most pressing environmental challenges, such as energy efficiency, longer life products and lamp recycling.

Energy Efficiency

Increasing the energy efficiency of the lighting system has a large effect on reducing the overall environmental impact and reduces energy bills.

Reduction of greenhouse gas emissions and energy use is important to business. GE offers you energy efficient systems to reduce your energy consumption and subsequently your GHG emissions.

To learn how to reduce energy costs by using GE products, go to www.gelighting.com/environmental

Long Life

Increasing lamp life and therefore reducing the number of lamps made, transported and recycled, also has a large effect on reducing environmental impact.

To view GE's large range of long life and energy efficient products, go to www.gelighting.com and click on "Products."

Recycling

GE recommends recycling fluorescent lamps at the end of life. Recycling recovers lamp materials, including mercury, for reuse.

To learn more about GE's recycling resources, go to www.gelighting.com/environmental



Ballasts

EcomaginationSM is GE's commitment to create products that help our customers improve their environmental and operating performance. GE's UltraStart[®] T5 and T8 programmed start and GE UltraMax[®] Instant Start ballasts are among the highest energy-efficient ballasts available and contribute to significant reductions in energy consumption and the curbing of greenhouse gas emissions.

Conformance Directive

The restriction of Hazardous Substances (RoHS) is a European directive that restricts six hazardous materials in consumer products:

- Lead
- Mercury
- Cadmium
- Hexavalent chromium
- PBB flame retardants
- PBDE flame retardants

GE electronic ballast options meet the material restriction requirements of RoHS relating to those substances.

UltraMax[®] Professional Series

Introducing our premium, highest efficiency Instant Start ballasts. The P series is comprised of new micro cans that are the smallest in the industry and allow for lightweight retrofits and compact design. The new P series will effectively remote start energy efficient lamps up to 18 feet and have improved UL Type CC anti-arcing protection and double the surge protection for the high ballast factor category.



UltraStart[®] Electronic Ballast

UltraStart[®] ballasts are a family of high-efficiency GE Program Start (see page 10-2) electronic linear fluorescent ballasts designed to optimize GE's T8 and T5 Ultra lamps in frequently switched applications. Instant Start ballasts provide approximately 10,000 starts before 50% of lamp failure. UltraStart[®] provides greater than 100,000 starts. UltraStart[®] have the equivalent energy savings and convenience of instant start ballasts but with the long lamp life of a programmed start ballast. UltraStart[®] T8 L, N and H ballasts exceed 90% efficiency and the NEMA Premium[®] ballast program minimum efficiency requirements.

UltraMax[®] General Series

Offering more than 90 percent energy efficiency, the UltraMax[®] G series electronic ballast is designed for all-purpose, long-burn operations. Focusing on the needs of our customers, we've constructed these high-efficiency ballasts to offer cutting-edge technologies for low temperature starting and anti-striation control. With an ambient temperature rating of 104°F, the UltraMax[®] G series is ideal for general applications.



Introduction



UltraMax® T8 Electronic Ballast



UltraStart® T8 Electronic Ballast

Compact Fluorescent Lamp (CFL)

CFLs are single-ended T4 and T5 lamps that are bent to form a compact shape. Screw-in CFLs have an integral ballast with a screw base for easy replacement of incandescent lamps. GE offers multi-voltage, multi-lamp and multi-entry ballasts for a wide range of CFL plug-in lamps. Multivolt ProLine® CFL ballasts are designed for plug-in lamps so that a ballast will survive over the useful life of approximately 3-to-4 lamp lives.



Multivolt ProLine® CFL Ballast

Electromagnetic Ballast (Magnetic Ballast)

Primarily used for T12 lamps. These ballasts operate lamps at a less efficient 60Hz and typically have efficiencies of 70-80%. Most ballasts consist of a core and coil transformer assembly. Today, magnetic ballasts for 4 foot and 8 foot lamps are typically used only for replacement purposes and are restricted by EPACKT to be sold, even in replacement applications, starting in 2009.



Sign Ballast

Sign Ballast (Magnetic Ballast)

Designed to operate T12 HO Lamps at 120 volts in cold and damp conditions in sign cabinets.

GE eHID, Electronic High Intensity Discharge Ballast (eHID)

Electronic HID significantly improves the performance of HID lighting. GE's UltraMax® eHID ballast operates pulse start and ceramic metal halide lamps.



HID Electromagnetic Ballast Kit

GE High Intensity Discharge Ballast (HID)

HID magnetic ballasts consist of robust core and coil designs that meet or exceed minimum ANSI requirements. These ballasts are typically sold as distributor replacement kits which are pre-wired with a capacitor, ignitor (if applicable) and all necessary mounting hardware and instructions. Each wattage is typically offered in quad (MLT-120/208/240/277 volt), 5-tap (ML5-120/208/240/277/480 volt) or 480 volt (48T) options.



UltraMax® eHID Ballast

GE Lighting & Electrical Institute

- World renowned training and education center at historic Nela Park in Cleveland, Ohio
- Impressive full-scale lighting demonstrations plus comprehensive electrical distribution solution center
- Variety of scheduled courses offered throughout the year, taught by experienced industry professionals

Call **1-800-255-1200**

or visit www.gelighting.com/institute

E-tools from the Institute:

- Live webcasts to sharpen your product and application knowledge
- Value*Light – GE's award-winning cost of light analysis program
- The Lighting Toolkit – a collection of seven simple estimating tools including a Simple Energy Calculator, Lighting Layout Estimator, and the Watts Per Square Foot Estimator
- The Lighting Assistant – a set of over 30 user-friendly tools and additional resources
- Light Beams – a comprehensive beam rendering and design tool for GE's PAR, R, MR and other directional lamps
- Plus training on online lighting layout tools and audit tools.

Learning Central...

the GE portal for all of your training and education needs!

Use Learning Central to register for Institute courses, enroll in online courses, schedule a customized onsite conference, track your progress, and more!

Visit www.gelearningcentral.com



Quick reference lamp to ballast selection guide

| Lamp Type | Voltage | Fluorescent Ballast Type | Ballast Product Code | Ballast Description | Fluorescent Ballast Long Description |
|--------------------------|---------|--------------------------|----------------------|---------------------|---|
| Fluorescent Lamps | | | | | |
| CFQ13W/2P | 120 | Preheat | 87533 | GEM1CF13PH120 | 1- CFT/Q13W/GX23 Pre Heat 120(4111H2P) |
| CFQ13W/4P | 120-277 | Programmed start | 63089 | GEC213-MVPS-3W | 2 or 1- CFQ13WG24q 120-277V ProLine® PS 3-Way Kit |
| | 120-277 | Programmed start | 63091 | GEC213-MVPS-BES | 2 or 1- CFQ13WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63092 | GEC213-MVPS-SE | 2 or 1- CFQ13WG24q Side Exit 120-277V ProLine® PS |
| CFQ18W/4P | 120-277 | Programmed start | 63089 | GEC213-MVPS-3W | 2 or 1- CFQ13WG24q 120-277V ProLine® PS 3-Way Kit |
| | 120-277 | Programmed start | 63091 | GEC213-MVPS-BES | 2 or 1- CFQ13WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63092 | GEC213-MVPS-SE | 2 or 1- CFQ13WG24q Side Exit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63093 | GEC218-MVPS-3W | 2 or 1- CFQ18WG24q 120-277V ProLine® PS 3 Way Kit |
| | 120-277 | Programmed start | 63094 | GEC218-MVPS-BES | 2 or 1- CFQ18WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63096 | GEC218-MVPS-SE | 2 or 1- CFQ18WG24q Side Exit 120-277V ProLine® PS |
| CFQ26W/4P | 120-277 | Programmed start | 63093 | GEC218-MVPS-3W | 2 or 1- CFQ18WG24q 120-277V ProLine® PS 3 Way Kit |
| | 120-277 | Programmed start | 63094 | GEC218-MVPS-BES | 2 or 1- CFQ18WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63096 | GEC218-MVPS-SE | 2 or 1- CFQ18WG24q Side Exit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63097 | GEC226-MVPS-3W | 2-CFQ26W FT24 or 1-42W CFTR32 3 Way Mounting Kit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63101 | GEC226-MVPS-BES | 2-CFQ26W FT24 or 1-42W CFTR32 Bottom Exit w Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63099 | GEC226-MVPS-SE | 2-CFQ26W FT24 or 1-42W CFTR32 Side Exit 120-277V ProLine® PS |
| CFS10W/4P | 120-277 | Programmed start | 63089 | GEC213-MVPS-3W | 2 or 1- CFQ13WG24q 120-277V ProLine® PS 3-Way Kit |
| | 120-277 | Programmed start | 63091 | GEC213-MVPS-BES | 2 or 1- CFQ13WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63092 | GEC213-MVPS-SE | 2 or 1- CFQ13WG24q Side Exit 120-277V ProLine® PS |
| CFS16W/4P | 120-277 | Programmed start | 63089 | GEC213-MVPS-3W | 2 or 1- CFQ13WG24q 120-277V ProLine® PS 3-Way Kit |
| | 120-277 | Programmed start | 63091 | GEC213-MVPS-BES | 2 or 1- CFQ13WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63092 | GEC213-MVPS-SE | 2 or 1- CFQ13WG24q Side Exit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63093 | GEC218-MVPS-3W | 2 or 1- CFQ18WG24q 120-277V ProLine® PS 3 Way Kit |
| | 120-277 | Programmed start | 63094 | GEC218-MVPS-BES | 2 or 1- CFQ18WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63096 | GEC218-MVPS-SE | 2 or 1- CFQ18WG24q Side Exit 120-277V ProLine® PS |
| CFS21W/4P | 120-277 | Programmed start | 63093 | GEC218-MVPS-3W | 2 or 1- CFQ18WG24q 120-277V ProLine® PS 3 Way Kit |
| | 120-277 | Programmed start | 63094 | GEC218-MVPS-BES | 2 or 1- CFQ18WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63096 | GEC218-MVPS-SE | 2 or 1- CFQ18WG24q Side Exit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63097 | GEC226-MVPS-3W | 2-CFQ26W FT24 or 1-42W CFTR32 3 Way Mounting Kit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63094 | GEC226-MVPS-BES | 2-CFQ26W FT24 or 1-42W CFTR32 Bottom Exit w Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63099 | GEC226-MVPS-SE | 2-CFQ26W FT24 or 1-42W CFTR32 Side Exit 120-277V ProLine® PS |
| CFS28W/4P | 120-277 | Programmed start | 63093 | GEC218-MVPS-3W | 2 or 1- CFQ18WG24q 120-277V ProLine® PS 3-Way Kit |
| | 120-277 | Programmed start | 63094 | GEC218-MVPS-BES | 2 or 1- CFQ18WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63096 | GEC218-MVPS-SE | 2 or 1- CFQ18WG24q Side Exit 120-277V ProLine® PS |
| CFT13W/2P | 120 | Preheat | 87533 | GEM1CF13PH120 | 1- CFT/Q13W/GX23 Pre Heat 120(4111H2P) |
| CFTR13W/4P | 120-277 | Programmed start | 63089 | GEC213-MVPS-3W | 2 or 1- CFQ13WG24q 120-277V ProLine® PS 3-Way Kit |
| | 120-277 | Programmed start | 63091 | GEC213-MVPS-BES | 2 or 1- CFQ13WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63092 | GEC213-MVPS-SE | 2 or 1- CFQ13WG24q Side Exit 120-277V ProLine® PS |
| CFTR18W/4P | 120-277 | Programmed start | 63089 | GEC213-MVPS-3W | 2 or 1- CFQ13WG24q 120-277V ProLine® PS 3-Way Kit |
| | 120-277 | Programmed start | 63091 | GEC213-MVPS-BES | 2 or 1- CFQ13WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63092 | GEC213-MVPS-SE | 2 or 1- CFQ13WG24q Side Exit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63093 | GEC218-MVPS-3W | 2 or 1- CFQ18WG24q 120-277V ProLine® PS 3 Way Kit |
| | 120-277 | Programmed start | 63094 | GEC218-MVPS-BES | 2 or 1- CFQ18WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63096 | GEC218-MVPS-SE | 2 or 1- CFQ18WG24q Side Exit 120-277V ProLine® PS |
| CFTR26W/4P | 120-277 | Programmed start | 63093 | GEC218-MVPS-3W | 2 or 1- CFQ18WG24q 120-277V ProLine® PS 3 Way Kit |
| | 120-277 | Programmed start | 63094 | GEC218-MVPS-BES | 2 or 1- CFQ18WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63096 | GEC218-MVPS-SE | 2 or 1- CFQ18WG24q Side Exit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63097 | GEC226-MVPS-3W | 2-CFQ26W FT24 or 1-42W CFTR32 3 Way Mounting Kit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63094 | GEC226-MVPS-BES | 2-CFQ26W FT24 or 1-42W CFTR32 Bottom Exit w Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63099 | GEC226-MVPS-SE | 2-CFQ26W FT24 or 1-42W CFTR32 Side Exit 120-277V ProLine® PS |
| CFTR32W/4P | 120-277 | Programmed start | 63094 | GEC226-MVPS-3W | 2-CFQ26W FT24 or 1-42W CFTR32 3 Way Mounting Kit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63099 | GEC226-MVPS-BES | 2-CFQ26W FT24 or 1-42W CFTR32 Bottom Exit w Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63097 | GEC226-MVPS-SE | 2-CFQ26W FT24 or 1-42W CFTR32 Side Exit 120-277V ProLine® PS |
| CFTR42W/4P | 120-277 | Programmed start | 63094 | GEC226-MVPS-3W | 2-CFQ26W FT24 or 1-42W CFTR32 3 Way Mounting Kit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63099 | GEC226-MVPS-BES | 2-CFQ26W FT24 or 1-42W CFTR32 Bottom Exit w Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63099 | GEC226-MVPS-SE | 2-CFQ26W FT24 or 1-42W CFTR32 Side Exit 120-277V ProLine® PS |
| F12T9 | 120 | Rapid start | 97498 | GE240RS120 | 2 F40 or F34T12 Rapid Start 120V "N" BF ProLine® T12 |
| F14T5/HE | 120-277 | Programmed start | 68993 | GE228MVPS-MC | 2- F28T5 PRS UNV 50/60 Hz |
| | 120-277 | Programmed start | 68993 | GE228MVPS-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS Normal Light .95 BF A Can |
| | 120-277 | Programmed start | 68994 | GE228MVPS-H-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS High Light 1.15 BF A Can |
| F14T5/WM | 120-277 | Programmed start | 68993 | GE228MVPS-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS Normal Light .95 BF A Can |
| | 120-277 | Programmed start | 68994 | GE228MVPS-H-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS High Light 1.15 BF A Can |
| | 120 | Instant start | 97782 | GE232-120-RES | 2 or 1 - F32T8 120V Normal Light BF Energy Star Resi Grade Electronic Ballast |
| | 120 | Instant start | 23673 | GE-332-120-N | 3 or 2 - F32T8 120V "N".87 BF |
| | 120 | Instant start | 97783 | GE432-120-RES | 3 or 4- F32T8 120V Normal Light BF Energy Star Resi Grade Electronic Ballast |
| | 347 | Instant start | 74101 | GE132MAX-G-N-347 | 1- F32T8 347V "N" .87 BF UltraMax® |
| F17T8 | 347 | Instant start | 74109 | GE232MAXP347-H | 2 or 1 - F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74096 | GE232MAXP347-L | 2 or 1 - F32T8 347V "L" .77 BF UltraMax® |
| | 347 | Instant start | 74093 | GE232MAXP347-N | 2 or 1 - F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74103 | GE232MAX-G-N-347 | 2 or 1 - F32T8 347V "N" .87 BF UltraMax® |

Quick reference lamp to ballast selection guide (cont.)

| Lamp Type | Voltage | Fluorescent Ballast Type | Ballast Product Code | Ballast Description | Fluorescent Ballast Long Description | |
|--------------------------------------|------------------|--------------------------|----------------------|---|---|---|
| Fluorescent Lamps (continued) | | | | | | |
| F17T8 (cont) | 347 | Instant start | 74111 | GE332MAXP347-H | 3 - F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74097 | GE332MAXP347-L | 3 or 2- F32T8 347V "L" .77 BF UltraMax® | |
| | 347 | Instant start | 74094 | GE332MAXP347-N | 3 or 2- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74105 | GE332MAX-G-N-347 | 3 or 2- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74113 | GE432MAXP347-H | 4 - F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74098 | GE432MAXP347-L | 4 or 3- F32T8 347V "L" .77 BF UltraMax® | |
| | 347 | Instant start | 74095 | GE432MAXP347-N | 4 or 3- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74107 | GE432MAX-G-N-347 | 4 or 3- F32T8 347V "N" .87 BF UltraMax® | |
| | 120-277 | Instant start | 72258 | GE132MAXP-L/ULTRA | 1- F32T8 120 to 277 "L" .77BF UltraMax® | |
| | 120-277 | Instant start | 72259 | GE132MAXP-N/ULTRA | 1- F32T8 120 to 277 "N" .87 BF UltraMax® | |
| | 120-277 | Instant start | 72269 | GE132MAX-G-N | 1- F32T8 120 to 277 "N".87 BF UltraMax® | |
| | 120-277 | Programmed start | 75954 | GE132-MVPS-H | 1 F32T8 120V-277V High Light 1.18 BF<10% THD UltraStart® | |
| | 120-277 | Programmed start | 75952 | GE132-MVPS-L | 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® | |
| | 120-277 | Programmed start | 75953 | GE132-MVPS-N | 1 F32T8 120V-277V Normal Light .88 BF<10% THD UltraStart® | |
| | 120-277 | Instant start | 73233 | GE232MAXP90-S60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim | |
| | 120-277 | Instant start | 73234 | GE232MAXP90-V60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim | |
| | 120-277 | Instant start | 72262 | GE232MAXP-L/ULTRA | 2 or 1- F32T8 120 to 277 "L" .77 BF UltraMax® | |
| | 120-277 | Instant start | 72266 | GE232MAXP-N/ULTRA | 2 or 1- F32T8 120 to 277 "N" .87 BF UltraMax® | |
| | 120-277 | Instant start | 71421 | GE232MAXP-N+ | 2 or 1- F32T8 120 to 277 "N+" 1.0 BF UltraMax® | |
| | 120-277 | Instant start | 74803 | GE232MAX-G-H | 2 or 1- F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| | 120-277 | Instant start | 72273 | GE232MAX-G-L | 2 or 1- F32T8 120 to 277 "L".77 BF UltraMax® | |
| | 120-277 | Instant start | 72275 | GE232MAX-G-N | 2 or 1- F32T8 120 to 277 "N".87 BF UltraMax® | |
| | 120-277 | Programmed start | 29675 | GE-232-MVPS-H | 2 F32T8 120V-277V High Light 1.15 BF UltraStart® | |
| | 120-277 | Programmed start | 96720 | GE232-MVPS-L | 2 or 1 F32T8 120V-277V Low Watt .71 BF UltraStart® Program Start | |
| | 120-277 | Programmed start | 96714 | GE232-MVPS-N | 2 or 1 F32T8 120V-277V Normal Light .88 BF UltraStart® | |
| | 120-277 | Programmed start | 29671 | GE-232-MVPS-XL | 2 or 1 F32T8 120V-277V Ultra Low Watt .60 BF UltraStart® | |
| | 120-277 | Instant start | 73231 | GE332MAXP90-S60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim | |
| | 120-277 | Instant start | 73232 | GE332MAXP90-V60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim | |
| | 120-277 | Instant start | 71714 | GE332MAXP-H/ULTRA | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| | 120-277 | Instant start | 71717 | GE332MAXP-L/ULTRA | 3 or 2- F32T8 120 to 277 "L" .77 BF UltraMax® | |
| | 120-277 | Instant start | 71719 | GE332MAXP-N/ULTRA | 3 or 2- F32T8 120 to 277 "N" .87 BF UltraMax® | |
| | 120-277 | Instant start | 71422 | GE332MAXP-N+ | 3 or 2- F32T8 120 to 277 "N+" 1.0 BF UltraMax® | |
| | 120-277 | Instant start | 74461 | GE332MAX-G-H | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| | 120-277 | Instant start | 74459 | GE332MAX-G-L | 3 or 2- F32T8 120 to 277 UltraMax® | |
| | 120-277 | Instant start | 74456 | GE332MAX-G-N | 3 or 2- F32T8 120 to 277 "N".87 BF UltraMax® | |
| | 120-277 | Programmed start | 29676 | GE-332-MVPS-H | 3 F32T8 120V-277V High Light 1.15 BF UltraStart® | |
| | 120-277 | Programmed start | 96721 | GE332-MVPS-L | 3 F32T8 120V-277V Low Watt .71 BF UltraStart® | |
| | 120-277 | Programmed start | 96715 | GE332-MVPS-N | 3 F32T8 120V-277V Normal Light .88 BF UltraStart® | |
| | 120-277 | Programmed start | 29672 | GE-332-MVPS-XL | 3 F32T8 120V-277V Ultra Low Watt .60 BF UltraStart® | |
| | 120-277 | Instant start | 73229 | GE432MAXP90-S60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim | |
| | 120-277 | Instant start | 73230 | GE432MAXP90-V60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim | |
| | 120-277 | Instant start | 71723 | GE432MAXP-H/ULTRA | 4 or 3- F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| | 120-277 | Instant start | 71725 | GE432MAXP-L/ULTRA | 4 or 3- F32T8 120 to 277 "L" .77 BF UltraMax® | |
| | 120-277 | Instant start | 71727 | GE432MAXP-N/ULTRA | 4 or 3- F32T8 120 to 277 "N" .87 BF UltraMax® | |
| | 120-277 | Instant start | 71423 | GE432MAXP-N+ | 4 or 3- F32T8 120 to 277 "N+" 1.0 BF UltraMax® | |
| | 120-277 | Instant start | 30219 | GE432MAX-G-H | 4 or 3- F32T8 120 to 277 "H" 1.15 BF UltraMax® | |
| | 120-277 | Instant start | 74466 | GE432MAX-G-L | 4 or 3- F32T8 120 to 277 "L" .77 BF UltraMax® | |
| | 120-277 | Instant start | 74463 | GE432MAX-G-N | 4 or 3- F32T8 120 to 277 "N".87 BF UltraMax® | |
| | 120-277 | Programmed start | 74476 | GE432-MVPS-H | 4 F32T8 120V-277V High Light 1.18 BF UltraStart® | |
| | 120-277 | Programmed start | 71832 | GE432-MVPS-L | 4 F32T8 120V-277V Low Watt .71 BF UltraStart® | |
| 120-277 | Programmed start | 96716 | GE432-MVPS-N | 4 F32T8 120V-277V Normal Light .88 BF UltraStart® | | |
| 120-277 | Instant start | 74117 | GE632MAXP-H90 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® | | |
| 120-277 | Instant start | 71497 | GE632MAXP-H90-S60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 1-wire powerline 100/60% step dim | | |
| 120-277 | Instant start | 71731 | GE632MAXP-H90-V60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 2-wire 0-10V 100-60% continuous dim | | |
| F17T8/WM | 347 | Instant start | 74109 | GE232MAXP347-H | 2 or 1- F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74096 | GE232MAXP347-L | 2 or 1- F32T8 347V "L" .77 BF UltraMax® | |
| | 347 | Instant start | 74093 | GE232MAXP347-N | 2 or 1- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74103 | GE232MAX-G-N-347 | 2 or 1- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74111 | GE332MAXP347-H | 3 - F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74097 | GE332MAXP347-L | 3 or 2- F32T8 347V "L" .77 BF UltraMax® | |
| | 347 | Instant start | 74094 | GE332MAXP347-N | 3 or 2- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74105 | GE332MAX-G-N-347 | 3 or 2- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74113 | GE432MAXP347-H | 4 - F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74098 | GE432MAXP347-L | 4 or 3- F32T8 347V "L" .77 BF UltraMax® | |
| | 347 | Instant start | 74095 | GE432MAXP347-N | 4 or 3- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74107 | GE432MAX-G-N-347 | 4 or 3- F32T8 347V "N" .87 BF UltraMax® | |
| | 120-277 | Programmed start | 75954 | GE132-MVPS-H | 1 F32T8 120V-277V High Light 1.18 BF<10% THD UltraStart® | |
| | 120-277 | Programmed start | 75952 | GE132-MVPS-L | 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® | |
| | 120-277 | Programmed start | 75953 | GE132-MVPS-N | 1 F32T8 120V-277V Normal Light .88 BF<10% THD UltraStart® | |
| | F20T12 | 120-277 | Rapid start | 74472 | GE240RS-MV-N | 2 or 1- F40 or F34T12 Rapid Start 120 to 277 "N" BF |

| Lamp Type | Voltage | Fluorescent Ballast Type | Ballast Product Code | Ballast Description | Fluorescent Ballast Long Description | |
|--------------------------------------|---------|--------------------------|----------------------|---------------------|--|--|
| Fluorescent Lamps (continued) | | | | | | |
| F20T12 (cont) | 120-277 | Rapid start | 74472 | GE240RS-MV-N | 2 or 1- F40 or F34T12 Rapid Start 120 to 277 "N" BF | |
| F21T5/HE | 120-277 | Programmed start | 68993 | GE228MVPS-MC | 2- F28T5 PRS UNV 50/60 Hz | |
| | 120-277 | Programmed start | 68993 | GE228MVPS-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS Normal Light .95 BF A Can | |
| F21T5/WM | 120-277 | Programmed start | 68994 | GE228MVPS-H-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS High Light 1.15 BF A Can | |
| | 120-277 | Programmed start | 68993 | GE228MVPS-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS Normal Light .95 BF A Can | |
| F24T5/HO | 120-277 | Programmed start | 68994 | GE228MVPS-H-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS High Light 1.15 BF A Can | |
| | 120-277 | Programmed start | 68976 | GE-224MVPS-N | 2- F24T5HO PRS UNV 50/60 Hz | |
| F25T12 | 120-277 | Programmed start | 47540 | B239PUNV-DOG1C | 2- F39T5HO PRS UNV 50/60 Hz | |
| | 120 | Rapid start | 97498 | GE240RS120 | 2 F40 or F34T12 Rapid Start 120V "N" BF ProLine® T12 | |
| F25T12 | 347 | Instant start | 74101 | GE132MAX-G-N-347 | 1- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74109 | GE232MAXP347-H | 2 or 1- F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74096 | GE232MAXP347-L | 2 or 1- F32T8 347V "L" .77 BF UltraMax® | |
| | 347 | Instant start | 74093 | GE232MAXP347-N | 2 or 1- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74103 | GE232MAX-G-N-347 | 2 or 1- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74111 | GE332MAXP347-H | 3 - F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74097 | GE332MAXP347-L | 3 or 2- F32T8 347V "L" .77 BF UltraMax® | |
| | 347 | Instant start | 74094 | GE332MAXP347-N | 3 or 2- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74105 | GE332MAX-G-N-347 | 3 or 2- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74113 | GE432MAXP347-H | 4 - F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74098 | GE432MAXP347-L | 4 or 3- F32T8 347V "L" .77 BF UltraMax® | |
| | 347 | Instant start | 74095 | GE432MAXP347-N | 4 or 3- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74107 | GE432MAX-G-N-347 | 4 or 3- F32T8 347V "N" .87 BF UltraMax® | |
| | 120-277 | Instant start | 72258 | GE132MAXP-L/ULTRA | 1- F32T8 120 to 277 "L" .77BF UltraMax® | |
| | 120-277 | Instant start | 72259 | GE132MAXP-N/ULTRA | 1- F32T8 120 to 277 "N" .87 BF UltraMax® | |
| | 120-277 | Programmed start | 75954 | GE132-MVPS-H | 1 F32T8 120V-277V High Light 1.18 BF<10% THD UltraStart® | |
| | 120-277 | Programmed start | 75952 | GE132-MVPS-L | 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® | |
| | 120-277 | Programmed start | 75953 | GE132-MVPS-N | 1 F32T8 120V-277V Normal Light .88 BF<10% THD UltraStart® | |
| | 120-277 | Instant start | 72262 | GE232MAXP-L/ULTRA | 2 or 1- F32T8 120 to 277 "L" .77 BF UltraMax® | |
| | 120-277 | Instant start | 72266 | GE232MAXP-N/ULTRA | 2 or 1- F32T8 120 to 277 "N" .87 BF UltraMax® | |
| | 120-277 | Instant start | 71421 | GE232MAXP-N+ | 2 or 1- F32T8 120 to 277 "N+" 1.0 BF UltraMax® | |
| | 120-277 | Instant start | 78619 | GE332MAXP-H/ULTRA | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| | 120-277 | Instant start | 78621 | GE332MAXP-L/ULTRA | 3 or 2- F32T8 120 to 277 "L" .77 BF UltraMax® | |
| | 120-277 | Instant start | 78623 | GE332MAXP-N/ULTRA | 3 or 2- F32T8 120 to 277 "N" .87 BF UltraMax® | |
| | 120-277 | Instant start | 71422 | GE332MAXP-N+ | 3 or 2- F32T8 120 to 277 "N+" 1.0 BF UltraMax® | |
| | 120-277 | Instant start | 71723 | GE432MAXP-H/ULTRA | 4 or 3- F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| | 120-277 | Instant start | 78625 | GE432MAXP-L/ULTRA | 4 or 3- F32T8 120 to 277 "L" .77 BF UltraMax® | |
| | 120-277 | Instant start | 78627 | GE432MAXP-N/ULTRA | 4 or 3- F32T8 120 to 277 "N" .87 BF UltraMax® | |
| | 120-277 | Instant start | 71423 | GE432MAXP-N+ | 4 or 3- F32T8 120 to 277 "N+" 1.0 BF UltraMax® | |
| | F25T8 | 120 | Instant start | 97782 | GE232-120-RES | 2 or 1- F32T8 120V Normal Light BF Energy Star Resi Grade Electronic Ballast |
| | | 120 | Instant start | 97783 | GE432-120-RES | 3 or 4- F32T8 120V Normal Light BF Energy Star Resi Grade Electronic Ballast |
| | | 347 | Instant start | 74101 | GE132MAX-G-N-347 | 1- F32T8 347V "N" .87 BF UltraMax® |
| 347 | | Instant start | 74109 | GE232MAXP347-H | 2 or 1- F32T8 347V "H" 1.18 BF UltraMax® | |
| 347 | | Instant start | 74096 | GE232MAXP347-L | 2 or 1- F32T8 347V "L" .77 BF UltraMax® | |
| 347 | | Instant start | 74093 | GE232MAXP347-N | 2 or 1- F32T8 347V "N" .87 BF UltraMax® | |
| 347 | | Instant start | 74103 | GE232MAX-G-N-347 | 2 or 1- F32T8 347V "N" .87 BF UltraMax® | |
| 347 | | Instant start | 74103 | GE232MAX-G-N-347 | 2 or 1- F32T8 347V "N" .87 BF UltraMax® | |
| 347 | | Instant start | 74111 | GE332MAXP347-H | 3 - F32T8 347V "H" 1.18 BF UltraMax® | |
| 347 | | Instant start | 74111 | GE332MAXP347-H | 3 - F32T8 347V "H" 1.18 BF UltraMax® | |
| 347 | | Instant start | 74097 | GE332MAXP347-L | 3 or 2- F32T8 347V "L" .77 BF UltraMax® | |
| 347 | | Instant start | 74097 | GE332MAXP347-L | 3 or 2- F32T8 347V "L" .77 BF UltraMax® | |
| 347 | | Instant start | 74094 | GE332MAXP347-N | 3 or 2- F32T8 347V "N" .87 BF UltraMax® | |
| 347 | | Instant start | 74094 | GE332MAXP347-N | 3 or 2- F32T8 347V "N" .87 BF UltraMax® | |
| 347 | | Instant start | 74105 | GE332MAX-G-N-347 | 3 or 2- F32T8 347V "N" .87 BF UltraMax® | |
| 347 | | Instant start | 74105 | GE332MAX-G-N-347 | 3 or 2- F32T8 347V "N" .87 BF UltraMax® | |
| 347 | | Instant start | 74113 | GE432MAXP347-H | 4 - F32T8 347V "H" 1.18 BF UltraMax® | |
| 347 | | Instant start | 74098 | GE432MAXP347-L | 4 or 3- F32T8 347V "L" .77 BF UltraMax® | |
| 347 | | Instant start | 74098 | GE432MAXP347-L | 4 or 3- F32T8 347V "L" .77 BF UltraMax® | |
| 347 | | Instant start | 74095 | GE432MAXP347-N | 4 or 3- F32T8 347V "N" .87 BF UltraMax® | |
| 347 | | Instant start | 74095 | GE432MAXP347-N | 4 or 3- F32T8 347V "N" .87 BF UltraMax® | |
| 347 | | Instant start | 74107 | GE432MAX-G-N-347 | 4 or 3- F32T8 347V "N" .87 BF UltraMax® | |
| 347 | | Instant start | 74107 | GE432MAX-G-N-347 | 4 or 3- F32T8 347V "N" .87 BF UltraMax® | |
| 120-277 | | Instant start | 72258 | GE132MAXP-L/ULTRA | 1- F32T8 120 to 277 "L" .77BF UltraMax® | |
| 120-277 | | Instant start | 72259 | GE132MAXP-N/ULTRA | 1- F32T8 120 to 277 "N" .87 BF UltraMax® | |
| 120-277 | | Instant start | 72269 | GE-132MAX-G-N | 1- F32T8 120 to 277 "N" .87 BF UltraMax® | |
| 120-277 | | Programmed start | 75954 | GE132-MVPS-H | 1 F32T8 120V-277V High Light 1.18 BF<10% THD UltraStart® | |
| 120-277 | | Programmed start | 75952 | GE132-MVPS-L | 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® | |
| 120-277 | | Programmed start | 75953 | GE132-MVPS-N | 1 F32T8 120V-277V Normal Light .88 BF<10% THD UltraStart® | |
| 120-277 | | Instant start | 72262 | GE232MAXP-L/ULTRA | 2 or 1- F32T8 120 to 277 "L" .77 BF UltraMax® | |
| 120-277 | | Instant start | 72266 | GE232MAXP-N/ULTRA | 2 or 1- F32T8 120 to 277 "N" .87 BF UltraMax® | |

Quick reference lamp to ballast selection guide (cont.)

| Lamp Type | Voltage | Fluorescent Ballast Type | Ballast Product Code | Ballast Description | Fluorescent Ballast Long Description | |
|--------------------------------------|---------------|--------------------------|----------------------|---|---|---|
| Fluorescent Lamps (continued) | | | | | | |
| F25T8 (cont) | 120-277 | Instant start | 71421 | GE232MAXP-N+ | 2 or 1- F32T8 120 to 277 "N+" 1.0 BF UltraMax® | |
| | 120-277 | Instant start | 74803 | GE232MAX-G-H | 2 or 1- F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| | 120-277 | Instant start | 72273 | GE232MAX-G-L | 2 or 1- F32T8 120 to 277 "L".77 BF UltraMax® | |
| | 120-277 | Instant start | 72275 | GE232MAX-G-N | 2 or 1- F32T8 120 to 277 "N".87 BF UltraMax® | |
| | 120-277 | Programmed start | 29675 | GE-232-MVPS-H | 2 F32T8 120V-277V High Light 1.15 BF UltraStart® | |
| | 120-277 | Programmed start | 96720 | GE232-MVPS-L | 2 or 1 F32T8 120V-277V Low Watt .71 BF UltraStart® Program Start | |
| | 120-277 | Programmed start | 96714 | GE232-MVPS-N | 2 or 1 F32T8 120V-277V Normal Light .88 BF UltraStart® | |
| | 120-277 | Programmed start | 96714 | GE232-MVPS-N | 2 or 1 F32T8 120V-277V Normal Light .88 BF UltraStart® | |
| | 120-277 | Programmed start | 29671 | GE-232-MVPS-XL | 2 or 1 F32T8 120V-277V Ultra Low Watt .60 BF UltraStart® | |
| | 120-277 | Instant start | 78619 | GE332MAXP-H/ULTRA | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| | 120-277 | Instant start | 78621 | GE332MAXP-L/ULTRA | 3 or 2- F32T8 120 to 277 "L".77 BF UltraMax® | |
| | 120-277 | Instant start | 78623 | GE332MAX-N/ULTRA | 3 or 2- F32T8 120 to 277 "N".87 BF UltraMax® | |
| | 120-277 | Instant start | 71422 | GE332MAXP-N+ | 3 or 2- F32T8 120 to 277 "N+" 1.0 BF UltraMax® | |
| | 120-277 | Instant start | 74461 | GE332MAX-G-H | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| | 120-277 | Instant start | 74459 | GE332MAX-G-L | 3 or 2- F32T8 120 to 277 "L".77 BF UltraMax® | |
| | 120-277 | Instant start | 74456 | GE332MAX-G-N | 3 or 2- F32T8 120 to 277 "N".87 BF UltraMax® | |
| | 120-277 | Programmed start | 29676 | GE-332-MVPS-H | 3 F32T8 120V-277V High Light 1.15 BF UltraStart® | |
| | 120-277 | Programmed start | 96721 | GE332-MVPS-L | 3 F32T8 120V-277V Low Watt .71 BF UltraStart® | |
| | 120-277 | Programmed start | 96715 | GE332-MVPS-N | 3 F32T8 120V-277V Normal Light .88 BF UltraStart® | |
| | 120-277 | Programmed start | 29672 | GE-332-MVPS-XL | 3 F32T8 120V-277V Ultra Low Watt .60 BF UltraStart® | |
| | 120-277 | Instant start | 71723 | GE432MAXP-H/ULTRA | 4 or 3- F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| | 120-277 | Instant start | 78625 | GE432MAXP-L/ULTRA | 4 or 3- F32T8 120 to 277 "L".77 BF UltraMax® | |
| | 120-277 | Instant start | 78627 | GE432MAXP-N/ULTRA | 4 or 3- F32T8 120 to 277 "N".87 BF UltraMax® | |
| | 120-277 | Instant start | 71423 | GE432MAXP-N+ | 4 or 3- F32T8 120 to 277 "N+" 1.0 BF UltraMax® | |
| | 120-277 | Instant start | 71423 | GE432MAXP-N+ | 4 or 3- F32T8 120 to 277 "N+" 1.0 BF UltraMax® | |
| | 120-277 | Instant start | 67911 | GE432MAX-G-H | 4 or 3- F32T8 120 to 277 "H" 1.15 BF UltraMax® | |
| | 120-277 | Instant start | 74466 | GE432MAX-G-L | 4 or 3- F32T8 120 to 277 UltraMax® | |
| | 120-277 | Instant start | 74463 | GE432MAX-G-N | 4 or 3- F32T8 120 to 277 "N".87 BF UltraMax® | |
| | 120-277 | Programmed start | 74476 | GE432-MVPS-H | 4 F32T8 120V-277V High Light 1.18 BF UltraStart® | |
| | 120-277 | Programmed start | 71832 | GE432-MVPS-L | 4 F32T8 120V-277V Low Watt .71 BF UltraStart® | |
| | 120-277 | Programmed start | 96716 | GE432-MVPS-N | 4 F32T8 120V-277V Normal Light .88 BF UltraStart® | |
| | 120-277 | Instant start | 74117 | GE632MAX-H90 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| | 120-277 | Instant start | 71497 | GE632MAXP-H90-S60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 1-wire powerline 100/60% step dim | |
| 120-277 | Instant start | 71731 | GE632MAXP-H90-V60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 2-wire 0-10V 100-60% continuous dim | | |
| F25T8/WM | 347 | Instant start | 74101 | GE132MAX-G-N-347 | 1- F32T8 347V "N".87 BF ProLine® | |
| | 347 | Instant start | 74109 | GE232MAXP347-H | 2 or 1- F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74096 | GE232MAXP347-L | 2 or 1- F32T8 347V "L".77 BF UltraMax® | |
| | 347 | Instant start | 74093 | GE232MAXP347-N | 2 or 1- F32T8 347V "N".87 BF UltraMax® | |
| | 347 | Instant start | 74103 | GE232MAX-G-N-347 | 2 or 1- F32T8 347V "N".87 BF UltraMax® | |
| | 347 | Instant start | 74111 | GE332MAXP347-H | 3 - F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74097 | GE332MAXP347-L | 3 or 2- F32T8 347V "L".77 BF UltraMax® | |
| | 347 | Instant start | 74094 | GE332MAXP347-N | 3 or 2- F32T8 347V "N".87 BF UltraMax® | |
| | 347 | Instant start | 74105 | GE332MAX-G-N-347 | 3 or 2- F32T8 347V "N".87 BF UltraMax® | |
| | 347 | Instant start | 74113 | GE432MAXP347-H | 4 - F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74098 | GE432MAXP347-L | 4 or 3- F32T8 347V "L".77 BF UltraMax® | |
| | 347 | Instant start | 74095 | GE432MAXP347-N | 4 or 3- F32T8 347V "N".87 BF UltraMax® | |
| | 347 | Instant start | 74107 | GE432MAX-G-N-347 | 4 or 3- F32T8 347V "N".87 BF UltraMax® | |
| | 120-277 | Programmed start | 75954 | GE132-MVPS-H | 1 F32T8 120V-277V High Light 1.18 BF <10% THD UltraStart® | |
| | 120-277 | Programmed start | 75952 | GE132-MVPS-L | 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® | |
| | 120-277 | Programmed start | 75953 | GE132-MVPS-N | 1 F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart® | |
| | F28T5 | 120-277 | Instant start | 75948 | GEC140MAX-A | 1-F740W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| | | 120-277 | Instant start | 71435 | GEC240MAX-A | 2 or 1-F740W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| | | 120-277 | Instant start | 71436 | GEC340MAX-A | 3-F740W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| | F28T5/HE | 120-277 | Programmed start | 68993 | GE228MVPS-MC | 2- F28T5 PRS UNV 50/60 Hz |
| 120-277 | | Programmed start | 68993 | GE228MVPS-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS Normal Light .95 BF A Can | |
| F28T5/HL | 120-277 | Programmed start | 68994 | GE228MVPS-MC-H | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS High Light 1.15 BF A Can | |
| | 120-277 | Programmed start | 68993 | GE228MVPS-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS Normal Light .95 BF A Can | |
| F28T5/WM | 120-277 | Programmed start | 68994 | GE228MVPS-MC-H | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS High Light 1.15 BF A Can | |
| | 120-277 | Programmed start | 68993 | GE228MVPS-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS Normal Light .95 BF A Can | |
| F28T8 | 120 | Instant start | 97782 | GE232-120-RES | 2 or 1- F32T8 120V Normal Light BF Energy Star Resi Grade Electronic Ballast | |
| | 120 | Instant start | 97783 | GE432-120-RES | 3 or 4- F32T8 120V Normal Light BF Energy Star Resi Grade Electronic Ballast | |
| | 347 | Instant start | 74101 | GE132MAX-G-N-347 | 1- F32T8 347V "N".87 BF UltraMax® | |
| | 347 | Instant start | 74109 | GE232MAXP347-H | 2 or 1- F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74096 | GE232MAXP347-L | 2 or 1- F32T8 347V "L".77 BF UltraMax® | |
| | 347 | Instant start | 74093 | GE232MAXP347-N | 2 or 1- F32T8 347V "N".87 BF UltraMax® | |
| | 347 | Instant start | 74103 | GE232MAX-G-N-347 | 2 or 1- F32T8 347V "N".87 BF UltraMax® | |
| | 347 | Instant start | 74111 | GE332MAXP347-H | 3 - F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74097 | GE332MAXP347-L | 3 or 2- F32T8 347V "L".77 BF UltraMax® | |
| 347 | Instant start | 74094 | GE332MAXP347-N | 3 or 2- F32T8 347V "N".87 BF UltraMax® | | |

| Lamp Type | Voltage | Fluorescent Ballast Type | Ballast Product Code | Ballast Description | Fluorescent Ballast Long Description |
|--------------------------------------|------------------|--------------------------|----------------------|---|--|
| Fluorescent Lamps (continued) | | | | | |
| F28T8 (cont) | 347 | Instant start | 74105 | GE332MAXP-G-N-347 | 3 or 2- F32T8 347V "N".87 BF UltraMax® |
| | 347 | Instant start | 74113 | GE432MAXP347-H | 4 - F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74098 | GE432MAXP347-L | 4 or 3- F32T8 347V "L".77 BF UltraMax® |
| | 347 | Instant start | 74095 | GE432MAXP347-N | 4 or 3- F32T8 347V "N".87 BF UltraMax® |
| | 347 | Instant start | 74107 | GE432MAX-G-N-347 | 4 or 3- F32T8 347V "N".87 BF UltraMax® |
| | 120-277 | Instant start | 72258 | GE132MAXP-L/ULTRA | 1- F32T8 120 to 277 "L".77BF UltraMax® |
| | 120-277 | Instant start | 72259 | GE132MAXP-N/ULTRA | 1- F32T8 120 to 277"N".87 BF UltraMax® |
| | 120-277 | Instant start | 72269 | GE132MAX-G-N | 1- F32T8 120 to 277 "N".87 BF UltraMax® F28T8 |
| | 120-277 | Programmed start | 75954 | GE132-MVPS-H | 1 F32T8 120V-277V High Light 1.18 BF<10% THD UltraStart® |
| | 120-277 | Programmed start | 75952 | GE132-MVPS-L | 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® |
| | 120-277 | Programmed start | 75953 | GE132-MVPS-N | 1 F32T8 120V-277V Normal Light .88 BF<10% THD UltraStart® |
| | 120-277 | Instant start | 73233 | GE232MAXP90-S60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73234 | GE232MAXP90-V60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 72262 | GE232MAXP-L/ULTRA | 2 or 1- F32T8 120 to 277 "L".77 BF UltraMax® |
| | 120-277 | Instant start | 72266 | GE232MAXP-N/ULTRA | 2 or 1- F32T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 71421 | GE232MAXP-N+ | 2 or 1- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 74803 | GE232MAX-G-H | 2 or 1- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 72273 | GE-232MAX-G-L | 2 or 1- F32T8 120 to 277 "L".77 BF UltraMax® |
| | 120-277 | Instant start | 72275 | GE-232MAX-G-N | 2 or 1- F32T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Programmed start | 29675 | GE-232-MVPS-H | 2 F32T8 120V-277V High Light 1.15 BF UltraStart® |
| | 120-277 | Programmed start | 96720 | GE232-MVPS-L | 2 or 1 F32T8 120V-277V Low Watt .71 BF UltraStart® Program Start |
| | 120-277 | Programmed start | 29671 | GE-232-MVPS-XL | 2 or 1 F32T8 120V-277V Ultra Low Watt .60 BF UltraStart® |
| | 120-277 | Instant start | 73231 | GE332MAXP90-S60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73232 | GE332MAXP90-V60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 71714 | GE332MAXP-H/ULTRA | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 78621 | GE332MAXP-L/ULTRA | 3 or 2- F32T8 120 to 277 "L".77 BF UltraMax® |
| | 120-277 | Instant start | 78623 | GE332MAXP-N/ULTRA | 3 or 2- F32T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 71422 | GE332MAXP-N+ | 3 or 2- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 74461 | GE332MAX-G-H | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 74459 | GE332MAX-G-L | 3 or 2- F32T8 120 to 277 "L".77 BF UltraMax® |
| | 120-277 | Instant start | 74456 | GE332MAX-G-N | 3 or 2- F32T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Programmed start | 29676 | GE-332-MVPS-H | 3 F32T8 120V-277V High Light 1.15 BF UltraStart® |
| | 120-277 | Programmed start | 96721 | GE332-MVPS-L | 3 F32T8 120V-277V Low Watt .71 BF UltraStart® |
| | 120-277 | Programmed start | 96715 | GE332-MVPS-N | 3 F32T8 120V-277V Normal Light .88 BF UltraStart® |
| | 120-277 | Programmed start | 29672 | GE-332-MVPS-XL | 3 F32T8 120V-277V Ultra Low Watt .60 BF UltraStart® |
| | 120-277 | Instant start | 73229 | GE432MAXP90-S60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73230 | GE432MAXP90-V60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 71723 | GE432MAXP-H/ULTRA | 4 or 3- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 78625 | GE432MAXP-L/ULTRA | 4 or 3- F32T8 120 to 277 "L".77 BF UltraMax® |
| | 120-277 | Instant start | 78627 | GE432MAXP-N/ULTRA | 4 or 3- F32T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 71423 | GE432MAXP-N+ | 4 or 3- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 67911 | GE432MAX-G-H | 4 or 3- F32T8 120 to 277 "H" 1.15 BF UltraMax® |
| 120-277 | Instant start | 74466 | GE432MAX-G-L | 4 or 3- F32T8 120 to 277 "L".77 BF UltraMax® | |
| 120-277 | Instant start | 74463 | GE432MAX-G-N | 4 or 3- F32T8 120 to 277 "N".87 BF UltraMax® | |
| 120-277 | Programmed start | 74476 | GE432-MVPS-H | 4 F32T8 120V-277V High Light 1.18 BF UltraStart® | |
| 120-277 | Programmed start | 71832 | GE432-MVPS-L | 4 F32T8 120V-277V Low Watt .71 BF UltraStart® | |
| 120-277 | Programmed start | 96716 | GE432-MVPS-N | 4 F32T8 120V-277V Normal Light .88 BF UltraStart® | |
| 120-277 | Instant start | 74117 | GE632MAXP-H90 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| 120-277 | Instant start | 71497 | GE632MAXP-H90-S60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 1-wire powerline 100/60% step dim | |
| 120-277 | Instant start | 71731 | GE632MAXP-H90-V60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 2-wire 0-10V 100-60% continuous dim | |
| F30T12 | 120 | Rapid start | 75672 | GE140RS120 | 1 F40 or F34T12 Rapid Start Electronic 120V "N" BF |
| | 120 | Rapid start | 97498 | GE240RS120 | 2 F40 or F34T12 Rapid Start 120V "N" BF ProLine® T12 |
| F30T12/WM | 120-277 | Rapid start | 74472 | GE240RS-MV-N | 2 or 1- F40 or F34T12 Rapid Start 120 to 277 "N" BF |
| | 120-277 | Rapid start | 74472 | GE240RS-MV-N | 2 or 1- F40 or F34T12 Rapid Start 120 to 277 "N" BF |
| F30T12/WM | 120-277 | Rapid start | 24107 | GE-240-RS-MV-N | 2 or 1- F40 or F34T12 Rapid Start 120 to 277 "N" BF |
| | 120-277 | Rapid start | 24109 | GE-340-RS-MV-N | 3 or 2- F40 or F34T12 Rapid Start 120 to 277 "N" BF |
| F32T8 | | | 74119 | GETR480/277-250W | Transformer 480 to 277V, <250 Watts(VA), A can |
| | | | 74120 | GETR480/277-375W | Transformer 480 to 277V, <375 Watts (VA), F can |
| | 120 | Instant start | 97782 | GE232-120-RES | 2 or 1- F32T8 120V Normal Light BF Energy Star Resi Grade Electronic Ballast |
| | 120 | Instant start | 23673 | GE-332-120-N | 3 or 2- F32T8 120V "N".87 BF |
| | 120 | Instant start | 97783 | GE432-120-RES | 3 or 4- F32T8 120V Normal Light BF Energy Star Resi Grade Electronic Ballast |
| | 120 | Rapid start | 87125 | GEM232T8RS120 | 2- F32T8 RS 120V Magnetic Ballast (M232SR120C) |
| | 347 | Instant start | 74101 | GE132MAX-G-N-347 | 1- F32T8 347V "N".87 BF ProLine® |
| | 347 | Instant start | 74109 | GE232MAXP347-H | 2 or 1- F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74096 | GE232MAXP347-L | 2 or 1- F32T8 347V "L".77 BF UltraMax® |
| | 347 | Instant start | 74093 | GE232MAXP347-N | 2 or 1- F32T8 347V "N".87 BF UltraMax® |
| | 347 | Instant start | 74103 | GE232MAX-G-N-347 | 2 or 1- F32T8 347V "N".87 BF ProLine® |
| | 347 | Instant start | 74111 | GE332MAXP347-H | 3 - F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74097 | GE332MAXP347-L | 3 or 2- F32T8 347V "L".77 BF UltraMax® |
| | 347 | Instant start | 74094 | GE332MAXP347-N | 3 or 2- F32T8 347V "N".87 BF UltraMax® |

Quick reference lamp to ballast selection guide (cont.)

| Lamp Type | Voltage | Fluorescent Ballast Type | Ballast Product Code | Ballast Description | Fluorescent Ballast Long Description |
|--------------------------------------|---------------|--------------------------|----------------------|---|---|
| Fluorescent Lamps (continued) | | | | | |
| F32T8 (cont) | 347 | Instant start | 74105 | GE332MAX-G-N-347 | 3 or 2- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74113 | GE432MAXP347-H | 4 - F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74098 | GE432MAXP347-L | 4 or 3- F32T8 347V "L" .77 BF UltraMax® |
| | 347 | Instant start | 74095 | GE432MAXP347-N | 4 or 3- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74107 | GE432MAX-G-N-347 | 4 or 3- F32T8 347V "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 72258 | GE132MAXP-L/ULTRA | 1- F32T8 120 to 277 "L" .77BF UltraMax® |
| | 120-277 | Instant start | 72259 | GE132MAXP-N/ULTRA | 1- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 72269 | GE132MAX-G-N | 1- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Programmed start | 75954 | GE132-MVPS-H | 1 F32T8 120V-277V High Light 1.18 BF<10% THD UltraStart® |
| | 120-277 | Programmed start | 75952 | GE132-MVPS-L | 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® |
| | 120-277 | Programmed start | 75953 | GE132-MVPS-N | 1 F32T8 120V-277V Normal Light .88 BF<10% THD UltraStart® |
| | 120-277 | Instant start | 73233 | GE232MAXP90-S60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73234 | GE232MAXP90-V60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 72262 | GE232MAXP-L/ULTRA | 2 or 1- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 72266 | GE232MAXP-N/ULTRA | 2 or 1- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 71421 | GE232MAXP-N+ | 2 or 1- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 74803 | GE232MAX-G-H | 2 or 1- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 72273 | GE232MAX-G-L | 2 or 1- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 72275 | GE232MAX-G-N | 2 or 1- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Programmed start | 96720 | GE232-MVPS-L | 2 or 1 F32T8 120V-277V Low Watt .71 BF UltraStart® Program Start |
| | 120-277 | Programmed start | 96714 | GE232-MVPS-N | 2 or 1 F32T8 120V-277V Normal Light .88 BF UltraStart® |
| | 120-277 | Programmed start | 29671 | GE-232-MVPS-XL | 2 or 1 F32T8 120V-277V Ultra Low Watt .60 BF UltraStart® |
| | 120-277 | Instant start | 73231 | GE332MAXP90-S60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73232 | GE332MAXP90-V60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 78619 | GE332MAXP-H/ULTRA | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 78621 | GE332MAXP-L/ULTRA | 3 or 2- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 78623 | GE332MAXP-N/ULTRA | 3 or 2- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 71422 | GE332MAXP-N+ | 3 or 2- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 74461 | GE332MAX-G-H | 3 or 2- F32T8 120 to 277 "H" 1.18 BF |
| | 120-277 | Instant start | 74459 | GE332MAX-G-L | 3 or 2- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 74456 | GE332MAX-G-N | 3 or 2- F32T8 120 to 277 "N" .87 BF |
| | 120-277 | Programmed start | 29676 | GE-332-MVPS-H | 3 F32T8 120V-277V High Light 1.15 BF UltraStart® |
| | 120-277 | Programmed start | 96721 | GE332-MVPS-L | 3 F32T8 120V-277V Low Watt .71 BF UltraStart® |
| | 120-277 | Programmed start | 96715 | GE332-MVPS-N | 3 F32T8 120V-277V Normal Light .88 BF UltraStart® |
| | 120-277 | Programmed start | 29672 | GE-332-MVPS-XL | 3 F32T8 120V-277V Ultra Low Watt .60 BF UltraStart® |
| | 120-277 | Instant start | 73229 | GE432MAXP90-S60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73230 | GE432MAXP90-V60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 71723 | GE432MAXP-H/ULTRA | 4 or 3- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 78625 | GE432MAXP-L/ULTRA | 4 or 3- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 78627 | GE432MAXP-N/ULTRA | 4 or 3- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 71423 | GE432MAXP-N+ | 4 or 3- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 67911 | GE432MAX-G-H | 4 or 3- F32T8 120 to 277 "H" 1.15 BF UltraMax® |
| | 120-277 | Instant start | 74466 | GE432MAX-G-L | 4 or 3- F32T8 120 to 277 UltraMax® |
| | 120-277 | Instant start | 74463 | GE432MAX-G-N | 4 or 3- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Programmed start | 74476 | GE432-MVPS-H | 4 F32T8 120V-277V High Light 1.18 BF UltraStart® |
| | 120-277 | Programmed start | 71832 | GE432-MVPS-L | 4 F32T8 120V-277V Low Watt .71 BF UltraStart® |
| | 120-277 | Programmed start | 96716 | GE432-MVPS-N | 4 F32T8 120V-277V Normal Light .88 BF UltraStart® |
| 120-277 | Instant start | 74117 | GE632MAXP-H90 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| 120-277 | Instant start | 71497 | GE632MAXP-H90-S60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 1-wire powerline 100/60% step dim | |
| 120-277 | Instant start | 71731 | GE632MAXP-H90-V60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 2-wire 0-10V 100-60% continuous dim | |
| 120-277 | Instant start | 75948 | GEC140MAX-A | 1-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start | |
| 120-277 | Instant start | 71435 | GEC240MAX-A | 2 or 1-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start | |
| 120-277 | Instant start | 71436 | GEC340MAX-A | 3-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start | |
| F32T8/25W | 347 | Instant start | 74101 | GE132MAX-G-N-347 | 1- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74109 | GE232MAXP347-H | 2 or 1- F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74096 | GE232MAXP347-L | 2 or 1- F32T8 347V "L" .77 BF UltraMax® |
| | 347 | Instant start | 74093 | GE232MAXP347-N | 2 or 1- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74103 | GE232MAX-G-N-347 | 2 or 1- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74111 | GE332MAXP347-H | 3 - F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74097 | GE332MAXP347-L | 3 or 2- F32T8 347V "L" .77 BF UltraMax® |
| | 347 | Instant start | 74094 | GE332MAXP347-N | 3 or 2- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74105 | GE332MAX-G-N-347 | 3 or 2- F32T8 347V "N" .87 BF ProLine® |
| | 347 | Instant start | 74113 | GE432MAXP347-H | 4 - F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74098 | GE432MAXP347-L | 4 or 3- F32T8 347V "L" .77 BF UltraMax® |
| | 347 | Instant start | 74095 | GE432MAXP347-N | 4 or 3- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74107 | GE432MAX-G-N-347 | 4 or 3- F32T8 347V "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 72258 | GE132MAX-L/ULTRA | 1- F32T8 120 to 277 "L" .77BF UltraMax® |
| | 120-277 | Instant start | 72259 | GE132MAX-N/ULTRA | 1- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 72269 | GE132MAX-G-N | 1- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Programmed start | 75954 | GE132-MVPS-H | 1 F32T8 120V-277V High Light 1.18 BF<10% THD UltraStart® |

| Lamp Type | Voltage | Fluorescent Ballast Type | Ballast Product Code | Ballast Description | Fluorescent Ballast Long Description |
|--------------------------------------|---------|--------------------------|----------------------|---------------------|---|
| Fluorescent Lamps (continued) | | | | | |
| F32T8/25W (cont) | 120-277 | Programmed start | 75952 | GE132-MVPS-L | 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® |
| | 120-277 | Programmed start | 75953 | GE132-MVPS-N | 1 F32T8 120V-277V Normal Light .88 BF<10% THD UltraStart® |
| | 120-277 | Instant start | 73233 | GE232MAXP90-S60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73234 | GE232MAXP90-V60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 72262 | GE232MAXP-L/ULTRA | 2 or 1- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 72266 | GE232MAXP-N/ULTRA | 2 or 1- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 71421 | GE232MAXP-N+ | 2 or 1- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 74803 | GE232MAX-G-H | 2 or 1- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 72273 | GE232MAX-G-L | 2 or 1- F32T8 120 to 277 "L".77 BF UltraMax® |
| | 120-277 | Instant start | 72275 | GE232MAX-G-N | 2 or 1- F32T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Programmed start | 29675 | GE-232-MVPS-H | 2 F32T8 120V-277V High Light 1.15 BF UltraStart® |
| | 120-277 | Programmed start | 96720 | GE232-MVPS-L | 2 or 1 F32T8 120V-277V Low Watt .71 BF UltraStart® Program Start |
| | 120-277 | Programmed start | 96714 | GE232-MVPS-N | 2 or 1 F32T8 120V-277V Normal Light .88 BF UltraStart® |
| | 120-277 | Programmed start | 29671 | GE-232-MVPS-XL | 2 or 1 F32T8 120V-277V Ultra Low Watt .60 BF UltraStart® |
| | 120-277 | Instant start | 73231 | GE332MAXP90-S60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73232 | GE332MAXP90-V60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 78619 | GE332MAXP-H/ULTRA | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 78621 | GE332MAXP-L/ULTRA | 3 or 2- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 78623 | GE332MAX-N/ULTRA | 3 or 2- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 71422 | GE332MAXP-N+ | 3 or 2- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 74461 | GE332MAX-G-H | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 74459 | GE332MAX-G-L | 3 or 2- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 74456 | GE332MAX-G-N | 3 or 2- F32T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Programmed start | 29676 | GE-332-MVPS-H | 3 F32T8 120V-277V High Light 1.15 BF UltraStart® |
| | 120-277 | Programmed start | 96721 | GE332-MVPS-L | 3 F32T8 120V-277V Low Watt .71 BF UltraStart® |
| | 120-277 | Programmed start | 96715 | GE332-MVPS-N | 3 F32T8 120V-277V Normal Light .88 BF UltraStart® |
| | 120-277 | Programmed start | 29672 | GE-332-MVPS-XL | 3 F32T8 120V-277V Ultra Low Watt .60 BF UltraStart® |
| | 120-277 | Instant start | 73229 | GE432MAXP90-S60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73230 | GE432MAXP90-V60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 71723 | GE432MAXP-H/ULTRA | 4 or 3- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 71725 | GE432MAXP-L/ULTRA | 4 or 3- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 71727 | GE432MAXP-N/ULTRA | 4 or 3- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 71423 | GE432MAXP-N+ | 4 or 3- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 67911 | GE432MAX-G-H | 4 or 3- F32T8 120 to 277 "H" 1.15 BF UltraMax® |
| | 120-277 | Instant start | 74466 | GE432MAX-G-L | 4 or 3- F32T8 120 to 277 UltraMax® |
| | 120-277 | Instant start | 74463 | GE432MAX-G-N | 4 or 3- F32T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Programmed start | 74476 | GE432-MVPS-H | 4 F32T8 120V-277V High Light 1.18 BF UltraStart® |
| | 120-277 | Programmed start | 71832 | GE432-MVPS-L | 4 F32T8 120V-277V Low Watt .71 BF UltraStart® |
| | 120-277 | Programmed start | 96716 | GE432-MVPS-N | 4 F32T8 120V-277V Normal Light .88 BF UltraStart® |
| | 120-277 | Instant start | 74117 | GE632MAXP-H90 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 71497 | GE632MAXP-H90-S60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 1-wire powerline 100/60% step dim |
| | 120-277 | Instant start | 71731 | GE632MAXP-H90-V60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 2-wire 0-10V 100-60% continuous dim |
| F34T12 | 120 | Rapid start | 72110 | GE140RS120 | 1 F40 or F34T12 Rapid Start Electronic 120V "N" BF |
| | 120 | Rapid start | 97498 | GE240RS120 | 2 F40 or F34T12 Rapid Start 120V "N" BF ProLine® T12 |
| | 120-277 | Rapid start | 74472 | GE240RS-MV-N | 2 or 1- F40 or F34T12 Rapid Start 120 to 277 "N" BF |
| F35T5/HE | 120-277 | Programmed start | 68993 | GE228MVPS-MC | 2- F28T5 PRS UNV 50/60 Hz |
| F35T5/WM | 120-277 | Programmed start | 68993 | GE228MVPS-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS Normal Light .95 BF A Can |
| F39T5/HO | 120-277 | Programmed start | 68976 | GE224MVPS-N | 1- F39T5HO PRS UNV 50/60 Hz |
| | 120-277 | Programmed start | 47540 | B239PUNV-DOG1C | 2- F39T5HO PRS UNV 50/60 Hz |
| F40/25BX | 120-277 | Instant start | 75948 | GEC140MAX-A | 1-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| | 120-277 | Instant start | 71435 | GEC240MAX-A | 2 or 1-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| | 120-277 | Instant start | 71436 | GEC340MAX-A | 3-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| F40/28BX | 120-277 | Instant start | 75948 | GEC140MAX-A | 1-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| | 120-277 | Instant start | 71435 | GEC240MAX-A | 2 or 1-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| | 120-277 | Instant start | 71436 | GEC340MAX-A | 3-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| F40/30BX | 120-277 | Instant start | 75948 | GEC140MAX-A | 1-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| | 120-277 | Instant start | 71435 | GEC240MAX-A | 2 or 1-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| | 120-277 | Programmed start | 71437 | GEC240MVPS-A | 2 or 1-FT40W/2G11 Biax®- 120-277V UltraStart® Programmed Start |
| | 120-277 | Instant start | 71436 | GEC340MAX-A | 3-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| F40T10 | 120-277 | Rapid start | 74472 | GE240RS-MV-N | 2 or 1- F40 or F34T12 Rapid Start 120 to 277 "N" BF |
| F40T12 | 120 | Rapid start | 72110 | GE140RS120 | 1 F40 or F34T12 Rapid Start Electronic 120V "N" BF |
| | 120 | Rapid start | 97498 | GE240RS120 | 2 F40 or F34T12 Rapid Start 120V "N" BF ProLine® T12 |
| | 120-277 | Rapid start | 74472 | GE240RS-MV-N | 2 or 1- F40 or F34T12 Rapid Start 120 to 277 "N" BF |
| F40T8 | 347 | Instant start | 74109 | GE232MAXP347-H | 2 or 1- F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74111 | GE332MAXP347-H | 3 - F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74113 | GE432MAXP347-H | 4 - F32T8 347V "H" 1.18 BF UltraMax® |
| | 120-277 | Programmed start | 75954 | GE132-MVPS-H | 1 F32T8 120V-277V High Light 1.18 BF<10% THD UltraStart® |
| | 120-277 | Programmed start | 75952 | GE132-MVPS-L | 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® |
| | 120-277 | Programmed start | 75953 | GE132-MVPS-N | 1 F32T8 120V-277V Normal Light .88 BF<10% THD UltraStart® |

Quick reference lamp to ballast selection guide (cont.)

| Lamp Type | Voltage | Fluorescent Ballast Type | Ballast Product Code | Ballast Description | Fluorescent Ballast Long Description |
|--------------------------------------|---------------|--------------------------|----------------------|---|---|
| Fluorescent Lamps (continued) | | | | | |
| F40T8 (cont) | 120-277 | Instant start | 73233 | GE232MAXP90-S60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73234 | GE232MAXP90-V60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 71421 | GE232MAXP-N+ | 2 or 1- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 74803 | GE232MAX-G-H | 2 or 1- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 72273 | GE232MAX-G-L | 2 or 1- F32T8 120 to 277 "L".77 BF UltraMax® |
| | 120-277 | Instant start | 72275 | GE232MAX-G-N | 2 or 1- F32T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 73199 | GE259MAXP-L/ULTRA | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 49767 | GE259MAXP-N/ULTRA | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 30176 | GE286MAXP-HO-N | 2 or 1- F96T8HO IS 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 73231 | GE332MAXP90-S60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73232 | GE332MAXP90-V60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 78619 | GE332MAXP-H/ULTRA | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 71422 | GE332MAXP-N+ | 3 or 2- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 74461 | GE332MAX-G-H | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 74459 | GE332MAX-G-L | 3 or 2- F32T8 120 to 277 "L".77 BF UltraMax® |
| | 120-277 | Instant start | 74456 | GE332MAX-G-N | 3 or 2- F32T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 73229 | GE432MAXP90-S60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73230 | GE432MAXP90-V60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 71723 | GE432MAXP-H/ULTRA | 4 or 3- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 71423 | GE432MAXP-N+ | 4 or 3- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| 120-277 | Instant start | 67911 | GE432MAX-G-H | 4 or 3- F32T8 120 to 277 "H" 1.15 BF UltraMax® | |
| 120-277 | Instant start | 74466 | GE432MAX-G-L | 4 or 3- F32T8 120 to 277 UltraMax® | |
| 120-277 | Instant start | 74463 | GE432MAX-G-N | 4 or 3- F32T8 120 to 277 "N".87 BF UltraMax® | |
| 120-277 | Instant start | 71497 | GE632MAXP-H90-S60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 1-wire powerline 100/60% step dim | |
| 120-277 | Instant start | 71731 | GE632MAXP-H90-V60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 2-wire 0-10V 100-60% continuous dim | |
| F48T12 | 120-277 | Instant start | 74474 | GE260IS-MV-N | 2 or 1- F96T12 Instant Start 120 to 277 |
| F48T12/25W | 120 | Rapid start | 72110 | GE140RS120 | 1 F40 or F34T12 Rapid Start Electronic 120V "N" BF |
| F48T12/HO | 120-277 | Rapid start | 75671 | GE296HO-MV-N | 2 or 1- F96T12HO RS 120 to 277 MultiVolt ProLine® |
| F48T8HO | 120-277 | Instant start | 30176 | GE286MAXP-HO-N | 2 or 1- F96T8HO IS 120 to 277 "N".87 BF |
| | | | 74120 | GETR480/277-375W | Transformer 480 to 277V, <375 Watts (VA), F can |
| F54T5/HO | 120-277 | Programmed start | 67562 | GE254MVPS90-A | 2 or 1 - F54T5HO 120 to 277 UltraStart® PS High Temp F Can |
| | 120-277 | Programmed start | 33957 | GE254MVPS-D-1 | 2 or 1 - F54T5HO 120 to 277 UltraStart® PRS D Can |
| F54T5/WM | 120-277 | Programmed start | 67562 | GE254MVPS90-A | 2 or 1 - F54T5HO 120 to 277 UltraStart® PS High Temp F Can |
| | 120-277 | Programmed start | 33957 | GE254MVPS-D-1 | 2 or 1 - F54T5HO 120 to 277 UltraStart® PRS D Can |
| F58T8 | 120-277 | Programmed start | 67562 | GE254MVPS90-A | 2 or 1 - F54T5HO 120 to 277 UltraStart® PS High Temp F Can |
| | 120-277 | Programmed start | 33957 | GE254MVPS-D-1 | 2 or 1 - F54T5HO 120 to 277 UltraStart® PRS D Can |
| | 120-277 | Instant start | 30176 | GE286MAXP-HO-N | 2 or 1- F96T8HO IS 120 to 277 "N".87 BF |
| F60T12 | 120-277 | Instant start | 74474 | GE260IS-MV-N | 2 or 1- F96T12 Instant Start 120 to 277 |
| F60T12/HO | 120-277 | Rapid start | 75671 | GE296HO-MV-N | 2 or 1- F96T12HO RS 120 to 277 MultiVolt ProLine® |
| F60T8HO | 120-277 | Instant start | 30176 | GE-286-HO-MV-N | 2 or 1- F96T8HO IS 120 to 277 "N".87 BF |
| F64T12 | 120-277 | Instant start | 74474 | GE260IS-MV-N | 2 or 1- F96T12 Instant Start 120 to 277 |
| F70T8 | 120-277 | Rapid start | 75671 | GE296HO-MV-N | 2 or 1- F96T12HO RS 120 to 277 MultiVolt ProLine® |
| F72T12 | 120-277 | Instant start | 74474 | GE260IS-MV-N | 2 or 1- F96T12 Instant Start 120 to 277 |
| F72T12/HO | 120-277 | Rapid start | 75671 | GE296HO-MV-N | 2 or 1- F96T12HO RS 120 to 277 MultiVolt ProLine® |
| F72T8 | 120-277 | Instant start | 73199 | GE259MAXP-L/ULTRA | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 49767 | GE259MAXP-N/ULTRA | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| F72T8HO | 120-277 | Instant start | 30176 | GE286MAXP-HO-N | 2 or 1- F96T8HO IS 120 to 277 "N".87 BF |
| F80T5HO | 120-277 | Programmed start | 72280 | GE180MVPS-D | 1 - F80T5HO 120 to 277 UltraStart® PRS D Can |
| F84T12 | 120-277 | Instant start | 74474 | GE260IS-MV-N | 2 or 1- F96T12 Instant Start 120 to 277 |
| F8T9 | 120 | Rapid start | 97498 | GE240RS120 | 2 F40 or F34T12 Rapid Start 120V "N" BF ProLine® T12 |
| F96T12 | 120-277 | Instant start | 74474 | GE260IS-MV-N | 2 or 1- F96T12 Instant Start 120 to 277 |
| F96T12/HO | 120-277 | Rapid start | 75671 | GE296HO-MV-N | 2 or 1- F96T12HO RS 120 to 277 MultiVolt ProLine® |
| F96T12/WM | 120-277 | Instant start | 74474 | GE260IS-MV-N | 2 or 1- F96T12 Instant Start 120 to 277 |
| F96T12/WMP | 120-277 | Instant start | 74474 | GE260IS-MV-N | 2 or 1- F96T12 Instant Start 120 to 277 |
| | 347 | Instant start | 74099 | GE259MAX-G-N-347 | 2 or 1- F96T8 347V "N".87 BF UltraMax® |
| | 120-277 | Instant start | 73199 | GE259MAXP-L/ULTRA | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| F96T8 | 120-277 | Instant start | 49767 | GE259MAXP-N/ULTRA | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 74469 | GE259MAX-G-N | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 30176 | GE286MAXP-HO-N | 2 or 1- F96T8HO IS 120 to 277 "N".87 BF |
| F96T8/HO | 120-277 | Instant start | 30176 | GE286MAXP-HO-N | 2 or 1- F96T8HO IS 120 to 277 "N".87 BF |
| | 347 | Instant start | 74099 | GE25MAX G-N-347 | 2 or 1- F96T8 347V "N".87 BF |
| | 120-277 | Instant start | 73199 | GE259MAXP-L/ULTRA | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| F96T8/WM | 120-277 | Instant start | 49767 | GE259MAXP-N/ULTRA | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 74469 | GE259MAX-G-N-347 | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 30176 | GE286MAXP-HO-N | 2 or 1- F96T8HO IS 120 to 277 "N".87 BF UltraMax® |
| | 347 | Instant start | 74099 | GE259MAX-G-N-347 | 2 or 1- F96T8 347V "N".87 BF UltraMax® |
| | 120-277 | Instant start | 73199 | GE259MAXP-L/ULTRA | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| F96T8/WMP | 120-277 | Instant start | 49767 | GE259MAXP-N/ULTRA | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 74469 | GE259MAX-G-N | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 30176 | GE286MAXP-HO-N | 2 or 1- F96T8HO IS 120 to 277 "N".87 BF UltraMax® |

| Lamp Type | Voltage | Fluorescent Ballast Type | Ballast Product Code | Ballast Description | Fluorescent Ballast Long Description |
|--------------------------------------|---------------|--------------------------|----------------------|--|--|
| Fluorescent Lamps (continued) | | | | | |
| FC12T5HO | 120-277 | Programmed start | 67562 | GE254MVPS90-A | 2 or 1 - F54T5HO 120 to 277 UltraStart® PS High Temp F Can |
| FC16T9 | 120-277 | Programmed start | 71445 | GEC226-MVPS-3W | 2-CFQ26W FT24 or 1-42W CFTR32 3 Way Mounting Kit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 71443 | GEC226-MVPS-BES | 2-CFQ26W FT24 or 1-42W CFTR32 Bottom Exit w Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 71444 | GEC226-MVPS-SE | 2-CFQ26W FT24 or 1-42W CFTR32 Side Exit 120-277V ProLine® PS |
| FC16T9/40W | 120-277 | Programmed start | 71443 | GEC226-MVPS-BES | 2-CFQ26W FT24 or 1-42W CFTR32 Bottom Exit w Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 71444 | GEC226-MVPS-SE | 2-CFQ26W FT24 or 1-42W CFTR32 Side Exit 120-277V ProLine® PS |
| FC16T9/ FC12T9 | 120 | Rapid start | 68190 | GEM1FC16T9RS120 | 2- FC12T9 FC16T9 FC8T9 FC12T9 120V Magnetic (726VLHWSTCP) |
| FC6T9 | 120 | Rapid start | 86227 | GEM1FC8T9RS120IP | 1- FC8T9 RS 120V Magnetic Ballast(547RSWSTCP) |
| FC8T9/FC12T9 | 120 | Rapid start | 89717 | GEM1FC12T9RS120 | 2 FC12T9 RS 120V Magnetic Ballast (449LRWSTCP) |
| | 120 | Rapid start | 68190 | GEM1FC16T9RS120 | 2- FC12T9 FC16T9 FC8T9 FC12T9 120V Magnetic (726VLHWSTCP) |
| FE15T8 | 347 | Instant start | 74101 | GE132MAX-G-N-347 | 1- F32T8 347V "N" .87 BF ProLine® |
| | 347 | Instant start | 74109 | GE232MAXP347-H | 2 or 1- F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74103 | GE232MAX-G-N-347 | 2 or 1- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74111 | GE332MAXP347-H | 3 - F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74105 | GE332MAX-G-N-347 | 3 or 2- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74113 | GE432MAXP347-H | 4 - F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74098 | GE432MAXP347-L | 4 or 3- F32T8 347V "L" .77 BF UltraMax® |
| | 347 | Instant start | 74095 | GE432MAXP347-N | 4 or 3- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74107 | GE432MAX-G-N-347 | 4 or 3- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74096 | GE232MAXP347-L | 2 or 1- F32T8 347V "L" .77 BF UltraMax® |
| | 347 | Instant start | 74093 | GE232MAXP347-N | 2 or 1- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74094 | GE332MAXP347-N | 3 or 2- F32T8 347V "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 72258 | GE132MAXP-L/ULTRA | 1- F32T8 120 to 277 "L" .77BF UltraMax® |
| | 120-277 | Instant start | 72259 | GE132MAXP-N/ULTRA | 1- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Programmed start | 75954 | GE132-MVPS-H | 1 F32T8 120V-277V High Light 1.18 BF<10% THD UltraStart® |
| | 120-277 | Programmed start | 75952 | GE132-MVPS-L | 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® |
| | 120-277 | Programmed start | 75953 | GE132-MVPS-N | 1 F32T8 120V-277V Normal Light .88 BF<10% THD UltraStart® |
| | 120-277 | Instant start | 72262 | GE232MAXP-L/ULTRA | 2 or 1- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 72266 | GE232MAXP-N/ULTRA | 2 or 1- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 71421 | GE232MAXP-N+ | 2 or 1- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 78619 | GE332MAXP-H/ULTRA | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 78621 | GE332MAXP-L/ULTRA | 3 or 2- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 78623 | GE332MAXP-N/ULTRA | 3 or 2- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 71422 | GE332MAXP-N+ | 3 or 2- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 71723 | GE432MAXP-H/ULTRA | 4 or 3- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 78625 | GE432MAXP-L/ULTRA | 4 or 3- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 78627 | GE432MAXP-N/ULTRA | 4 or 3- F32T8 120 to 277 "N" .87 BF UltraMax® |
| 120-277 | Instant start | 71423 | GE432MAXP-N+ | 4 or 3- F32T8 120 to 277 "N+" 1.0 BF UltraMax® | |
| FT24W/2G10 | 120-277 | Programmed start | 68976 | GE224MVPS-N | 2- F24T5HO PRS UNV 50/60 Hz |
| | 120-277 | Programmed start | 63097 | GEC226-MVPS-3W | 2-CFQ26W FT24 or 1-42W CFTR32 3 Way Mounting Kit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63098 | GEC226-MVPS-BES | 2-CFQ26W FT24 or 1-42W CFTR32 Bottom Exit w Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63099 | GEC226-MVPS-SE | 2-CFQ26W FT24 or 1-42W CFTR32 Side Exit 120-277V ProLine® PS |
| FT24W/4P | 120-277 | Programmed start | 68976 | GE224MVPS-N | 2- F24T5HO PRS UNV 50/60 Hz |
| | 120 | Rapid start | 97498 | GE240RS120 | 2 F40 or F34T12 Rapid Start 120V "N" BF ProLine® T12 |
| FT36W/4P | 120-277 | Programmed start | 68976 | GE224MVPS-N | 2- F24T5HO PRS UNV 50/60 Hz |
| | 120-277 | Programmed start | 94131 | GE254MVPS-D-1 | 2 or 1 - F54T5HO 120 to 277 UltraStart® PRS D Can |
| FT39W/4P | 120-277 | Programmed start | 47540 | B239PUNV-DOG1C | 2- F39T5HO PRS UNV 50/60 Hz |
| | 120-277 | Programmed start | 47540 | B239PUNV-DOG1C | 2- F39T5HO PRS UNV 50/60 Hz |
| | 120-277 | Programmed start | 67562 | GE254MVPS90-A | 2 or 1 - F54T5HO 120 to 277 UltraStart® PS High Temp F Can |
| FT50W/4P | 120-277 | Programmed start | 67562 | GE254MVPS90-A | 2 or 1 - F54T5HO 120 to 277 UltraStart® PS High Temp F Can |
| | 120-277 | Programmed start | 94131 | GE254MVPS-D-1 | 2 or 1 - F54T5HO 120 to 277 UltraStart® PRS D Can |
| FT55W/4P | 120-277 | Programmed start | 67562 | GE254MVPS90-A | 2 or 1 - F54T5HO 120 to 277 UltraStart® PS High Temp F Can |
| | 120-277 | Programmed start | 94131 | GE254MVPS-D-1 | 2 or 1 - F54T5HO 120 to 277 UltraStart® PRS D Can |

Quick reference ballast selection guide

| | Std Pack Prod Code | Description | Application | Product Page Number | Pallet Pack | DIY Pack | Std Pack Units Per Carton |
|---|-----------------------|-------------------|---|------------------------|----------------|-------------|---------------------------------|
| T8 Fluorescent Ballasts | | | | | | | |
| T8 INSTANT START BALLASTS | | | | | | | |
| UltraMax® Professional Series Instant Start Multi-Voltage 120-277V High-Efficiency | | | | | | | |
| For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps | | | | | | | |
| | 72258 | GE132MAXP-L/ULTRA | 1 - F32T8 120 to 277 "L" .77 BF UltraMax® P | 10-7 | | | 10 |
| | 72259 | GE132MAXP-N/ULTRA | 1 - F32T8 120 to 277 "N" .87 BF UltraMax® P | 10-8 | | | 10 |
| | 63885 | GE132MAXP-H/ULTRA | 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® P | 10-9 | | | 10 |
| | 73190 | GE232MAXP-H/ULTRA | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® P | 10-10 | 73191 | | 10 |
| | 72262 | GE232MAXP-L/ULTRA | 2 or 1 - F32T8 120 to 277 "L" .77 BF UltraMax® P | 10-11 | 72263 | | 10 |
| | 72266 | GE232MAXP-N/ULTRA | 2 or 1 - F32T8 120 to 277 "N" .87 BF UltraMax® P | 10-12 | 72267 | | 10 |
| | 71421 | GE232MAXP-N+ | 2 or 1 - F32T8 120 to 277 "N+" 1.0 BF UltraMax® P | 10-13 | | | 10 |
| | 78619 | GE332MAXP-H/ULTRA | 3 or 2 - F32T8 120 to 277 "H" 1.18 BF UltraMax® P | 10-14 | 78620 | | 10 |
| | 78621 | GE332MAXP-L/ULTRA | 3 or 2 - F32T8 120 to 277 "L" .77 BF UltraMax® P | 10-15 | | | 10 |
| | 78623 | GE332MAXP-N/ULTRA | 3 or 2 - F32T8 120 to 277 "N" .87 BF UltraMax® P | 10-16 | | 71722 | 10 |
| | 71422 | GE332MAXP-N+ | 3 or 2 - F32T8 120 to 277 "N+" 1.0 BF UltraMax® P | 10-17 | | | 10 |
| | 71723 | GE432MAXP-H/ULTRA | 4 or 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® P | 10-18 | 71724 | | 10 |
| | 78625 | GE432MAXP-L/ULTRA | 4 or 3 - F32T8 120 to 277 "L" .77 BF UltraMax® P | 10-19 | | | 10 |
| | 78627 | GE432MAXP-N/ULTRA | 4 or 3 - F32T8 120 to 277 "N" .87 BF UltraMax® P | 10-20 | | 71730 | 10 |
| | 71423 | GE432MAXP-N+ | 4 or 3 - F32T8 120 to 277 "N+" 1.0 BF UltraMax® P | 10-21 | | | 10 |
| | 74117 | GE632MAXP-H90 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® P | 10-22 | | | 10 |
| For 46-59W 4 ft - 8 ft Slimline Lamps | | | | | | | |
| | 49767 | GE259MAXP-N/ULTRA | 2 or 1 - F96T8 120 to 277 "N" .87 BF UltraMax® P | 10-23 | | 23954 | 10 |
| | 73199 | GE259MAXP-L/ULTRA | 2 or 1 - F96T8 120 to 277 "L" .77 BF UltraMax® P | 10-24 | | | 10 |
| UltraMax® Professional Series MultiVolt High Output 120-277V | | | | | | | |
| For 44-86W 4 ft - 8 ft HO Lamps | | | | | | | |
| | 63888 | GE286MAXP-HO-N | 2 or 1 - F96T8HO IS 120 to 277 "N" 0.87 BF | 10-25 | | | 10 |
| UltraMax® Professional Series 347V High-Efficiency | | | | | | | |
| | 74093 | GE232MAXP347-N | 2 or 1 - F32T8 347V "N" .87 BF UltraMax® P | 10-26 | | | 10 |
| | 67435 | GE232MAXP347-N+ | 2 or 1 - F32T8 347V "N+" 1.0 BF UltraMax® P | 10-27 | | | 10 |
| | 74094 | GE332MAXP347-N | 3 or 2 - F32T8 347V "N" .87 BF UltraMax® P | 10-28 | | | 10 |
| | 74095 | GE432MAXP347-N | 4 or 3 - F32T8 347V "N" .87 BF UltraMax® P | 10-29 | | | 10 |
| | 74096 | GE232MAXP347-L | 2 or 1 - F32T8 347V "L" .77 BF UltraMax® P | 10-30 | | | 10 |
| | 74097 | GE332MAXP347-L | 3 or 2 - F32T8 347V "L" .77 BF UltraMax® P | 10-31 | | | 10 |
| | 74098 | GE432MAXP347-L | 4 or 3 - F32T8 347V "L" .77 BF UltraMax® P | 10-32 | | | 10 |
| | 74109 | GE232MAXP347-H | 2 or 1 - F32T8 347V "H" 1.18 BF UltraMax® P | 10-33 | | | 10 |
| | 74111 | GE332MAXP347-H | 3 or 2 - F32T8 347V "H" 1.18 BF UltraMax® P | 10-34 | | | 10 |
| | 74113 | GE432MAXP347-H | 4 or 3 - F32T8 347V "H" 1.18 BF UltraMax® P | 10-35 | | | 10 |
| UltraMax® Professional Series 480V High-Efficiency | | | | | | | |
| | 62718 | GE232MAXP480-H | 2 or 1 - F32T8 480V "H" 1.18 BF UltraMax® P | 10-36 | | | 10 |
| | 62719 | GE332MAXP480-H | 3 or 2 - F32T8 480V "H" 1.18 BF UltraMax® P | 10-37 | | | 10 |
| | 62720 | GE432MAXP480-H | 4 or 3 - F32T8 480V "H" 1.18 BF UltraMax® P | 10-38 | | | 10 |
| UltraMax® General Series T8 Multi-Voltage 120-277V | | | | | | | |
| For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps | | | | | | | |
| | 72269 | GE132MAX-G-N | 1 - F32T8 120 to 277 "N" .87 BF Multivolt UltraMax® G | 10-39 | 72270 | | 10 |
| | 74803 | GE232MAX-G-H | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF Multivolt UltraMax® G | 10-40 | 74804 | | 10 |
| | 72273 | GE232MAX-G-L | 2 or 1 - F32T8 120 to 277 "L" .77 BF Multivolt UltraMax® G | 10-41 | | | 10 |
| | 72275 | GE232MAX-G-N | 2 or 1 - F32T8 120 to 277 "N" .87 BF Multivolt UltraMax® G | 10-42 | 72276 | 93883 | 10 |
| | 74461 | GE332MAX-G-H | 3 or 2 - F32T8 120 to 277 "H" 1.15 BF Multivolt UltraMax® G | 10-43 | 74462 | | 10 |
| | 74459 | GE332MAX-G-L | 3 or 2 - F32T8 120 to 277 "L" .77 BF Multivolt UltraMax® G | 10-44 | | | 10 |
| | 74456 | GE332MAX-G-N | 3 or 2 - F32T8 120 to 277 "N" .87 BF Multivolt UltraMax® G | 10-45 | 74457 | 93869 | 10 |
| | 67911 | GE432MAX-G-H | 4 or 3 - F32T8 120 to 277 "H" 1.18 BF Multivolt UltraMax® G | 10-46 | | | 10 |
| | 74466 | GE432MAX-G-L | 4 or 3 - F32T8 120 to 277 "L" .77 BF Multivolt UltraMax® G | 10-47 | | | 10 |
| | 74463 | GE432MAX-G-N | 4 or 3 - F32T8 120 to 277 "N" .87 BF Multivolt UltraMax® G | 10-48 | 74464 | 93868 | 10 |
| For 46-59W 4 ft - 8 ft Slimline Lamps | | | | | | | |
| | 72271 | GE159MAX-G-N | 1 - F96T8 120 to 277 "N" .87 BF UltraMax® G | 10-49 | 72272 | | 10 |
| | 74469 | GE259MAX-G-N | 2 or 1 - F96T8 120 to 277 "N" .87 BF UltraMax® G | 10-50 | 74470 | 93879 | 10 |

Quick reference ballast selection guide (cont.)

| | Std Pack Prod Code | Description | Application | Product Page Number | Pallet Pack | DIY Pack | Std Pack Units Per Carton |
|---|--------------------|-----------------|---|---------------------|-------------|----------|---------------------------|
| T8 Fluorescent Ballasts (continued) | | | | | | | |
| T8 INSTANT START BALLASTS (continued) | | | | | | | |
| UltraMax® General Series 347V Instant Start High Performance | | | | | | | |
| | 74101 | GE132MAX-G-347 | 1 - F32T8 347V "N" 0.87 BF UltraMax® G | 10-51 | | | 10 |
| | 74103 | GE232MAX-G-347 | 2 or 1 - F32T8 347V "N" 0.87 BF UltraMax® G | 10-52 | | | 10 |
| | 74105 | GE332MAX-G-347 | 3 or 2 - F32T8 347V "N" 0.87 BF UltraMax® G | 10-53 | | | 10 |
| | 74107 | GE432MAX-G-347 | 4 or 3 - F32T8 347V "N" 0.87 BF UltraMax® G | 10-54 | | | 10 |
| | 74099 | GE259MAX-G-347 | 2 or 1 - F96T8 347V "N" 0.87 BF UltraMax® G | 10-55 | 74100 | | 10 |
| ProLine® T8 Instant Start 120V and 277V High Performance | | | | | | | |
| For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps | | | | | | | |
| | 23673 | GE-332-120-N | 3 or 2 - F32T8 120V "N" .87 BF ProLine® | 10-56 | 24165 | | 10 |
| For 46-59W 4 ft - 8 ft Slimline Lamps | | | | | | | |
| | 23677 | GE-259-120-N | 2 or 1 - F96T8 120V Normal Light .87 BF ProLine® | 10-57 | | | 10 |
| Residential Grade ProLine® T8 120V | | | | | | | |
| For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps | | | | | | | |
| | 97782 | GE232-120-RES | 2 or 1 - F32T8 120V "N" .87 BF Residential ProLine® | 10-58 | | 93884 | 10 |
| | 97783 | GE432-120-RES | 4 or 3 - F32T8 120V "N" .87 BF Residential ProLine® | 10-59 | | 93885 | 10 |
| ELECTROMAGNETIC T8 120V AND 277V BALLASTS | | | | | | | |
| For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps | | | | | | | |
| | 87125 | GEM232T8RS120 | 2 - F32T8 RS 120V Magnetic Ballast (M232SR120C) | 10-60 | | 87125 | 10 |
| T8 PROGRAMMED START BALLASTS | | | | | | | |
| UltraStart® T8 120V-277V Programmed Start | | | | | | | |
| For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps | | | | | | | |
| | 75952 | GE132-MVPS-L | 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® | 11-2 | | | 10 |
| | 75953 | GE132-MVPS-N | 1 F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart® | 11-3 | | | 10 |
| | 75954 | GE132-MVPS-H | 1 F32T8 120V-277V High Light 1.18 BF <10% THD UltraStart® | 11-4 | | | 10 |
| | 96714 | GE232-MVPS-N | 2 or 1 - F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart® | 11-5 | | | 10 |
| | 96720 | GE232-MVPS-L | 2 or 1 - F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® | 11-5 | | | 10 |
| | 29675 | GE-232-MVPS-H | 2 - F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart® | 11-6 | 29651 | | 10 |
| | 29671 | GE-232-MVPS-XL | 2 - F32T8 120V-277V Ultra Low Watt .60 BF <10% THD | 11-7 | | | 10 |
| | 29676 | GE-332-MVPS-H | 3 - F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart® | 11-8 | | | 10 |
| | 96715 | GE332-MVPS-N | 3 - F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart® | 11-9 | | | 10 |
| | 96721 | GE332-MVPS-L | 3 - F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® | 11-9 | | | 10 |
| | 29672 | GE-332-MVPS-XL | 3 - F32T8 120V-277V Ultra Low Watt .60 BF <10% THD | 11-10 | | | 10 |
| | 29625 | GE-432-120-PS-N | 4 - F32T8 120V Normal Light .87 BF <10% THD UltraStart® | 11-10 | 29635 | | 10 |
| | 96716 | GE432-MVPS-N | 4 - F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart® | 11-11 | | | 10 |
| | 71832 | GE432-MVPS-L | 4 - F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® | 11-11 | | | 10 |
| | 74476 | GE-432-MVPS-H | 4 - F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart® | 11-12 | 74477 | | 8 |
| | 62721 | GE232PS347-L | 2 or 1 F32T8 347V Low Watt .71 BF UltraStart® | 11-13 | | | 10 |
| | 62722 | GE432PS347-L | 4 or 3 F32T8 347V Low Watt .71 BF UltraStart® | 11-14 | | | 10 |
| | 62723 | GE232PS347-N | 2 or 1 F32T8 347V Normal Light .88 BF UltraStart® | 11-15 | | | 10 |
| | 62724 | GE332PS347-N | 3 F32T8 347V Normal Light .88 BF UltraStart® | 11-16 | | | 10 |
| | 62725 | GE432PS347-N | 4 F32T8 347V Normal Light .88 BF UltraStart® | 11-17 | | | 10 |
| | 62726 | GE232PS347-H | 2 or 1 F32T8 347V High Light 1.18 BF UltraStart® | 11-18 | | | 10 |
| | 62727 | GE332PS347-H | 3 F32T8 347V High Light 1.18 BF UltraStart® | 11-19 | | | 10 |
| | 63041 | GE332PS347-L | 2 or 1 F32T8 347V High Light 1.18 BF UltraStart® | 11-20 | | | 10 |

| | Std Pack Prod Code | Description | Application | Product Page Number | Pallet Pack | DIY Pack | Std Pack Units Per Carton |
|---|-----------------------|------------------|--|------------------------|----------------|-------------|---------------------------------|
| T8 Fluorescent Ballasts (continued) | | | | | | | |
| T8/T5 DIMMING BALLASTS | | | | | | | |
| UltraStart® T8 Step Dimming Program Start Dimming | | | | | | | |
| | 68966 | GE132-MVPS-N-S30 | 1 F32T8 120-277V "N" .88 BF UltraStart® 100/30% Bi-level Switching | 12-5 | | | 10 |
| | 68968 | GE232-MVPS-L-S30 | 2 or 1 F32T8 120-277V "L" .78 BF UltraStart® 100/30% Bi-level Switching | 12-6 | | | 10 |
| | 68967 | GE232-MVPS-N-S30 | 2 or 1 F32T8 120-277V "N" .88 BF UltraStart® 100/30% Bi-level Switching | 12-7 | | | 10 |
| UltraMax® Bi-Level Dimming & Load Shed Dimming Instant Start High-Efficiency | | | | | | | |
| | 73233 | GE232MAX90-S60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim | 12-8 | | | 10 |
| | 73231 | GE332MAX90-S60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim | 12-9 | | | 10 |
| | 73229 | GE432MAX90-S60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim | 12-10 | | | 10 |
| | 71497 | GE632MAX-H90-S60 | 6, 5, 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim | 12-11 | | | 10 |
| | 73234 | GE232MAX90-V60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim | 12-12 | | | 10 |
| | 73232 | GE332MAX90-V60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim | 12-13 | | | 10 |
| | 73230 | GE432MAX90-V60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim | 12-14 | | | 10 |
| | 71731 | GE632MAX-H90-V60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim | 12-15 | | | 10 |
| UltraStart® T8 100-3% 0-10V / 120-277V Programmed Start Dimming | | | | | | | |
| | 75379 | GE132MVPS-N-V03 | 1 - F32T8 120-277V "N" .88 BF UltraStart® 0-10V Dimming 100-3% | 12-16 | | | 10 |
| | 75380 | GE232MVPS-N-V03 | 2 - F32T8 120-277V "N" .88 BF UltraStart® 0-10V Dimming 100-3% | 12-17 | | | 10 |
| | 75381 | GE332MVPS-N-V03 | 3 - F32T8 120-277V "N" .88 BF UltraStart® 0-10V Dimming 100-3% | 12-18 | | | 10 |
| | 75382 | GE432-MVPS-N-V03 | 4 - F32T8 120-277V "N" .88 BF UltraStart® 0-10V Dimming 100-3% | 12-19 | | | 10 |
| | 75383 | GE232-MVPS-H-V03 | 2 or 1 - F32T8 120-277V "H" 1.18 BF UltraStart® 0-10V Dimming 100-3% | 12-20 | | | 10 |
| | 75384 | GE332MVPS-H-V03 | 3 - F32T8 120-277V "H" 1.18 BF UltraStart® 0-10V Dimming 100-3% | 12-21 | | | 10 |
| | 75385 | GE432-MVPS-H-V03 | 4 - F32T8 120-277V "H" 1.18 BF UltraStart® 0-10V Dimming 100-3% | 12-22 | | | 10 |
| | 62044 | GE432MVPS-N-V03W | 3 - F32T8 120-277V "N" .88 BF UltraStart® 0-10V Dimming 100-3% | 12-23 | | | 10 |
| UltraStart® T5 120-277V Step Dimming Program Start | | | | | | | |
| | 90903 | GE228MVPS-N-S35 | 2 or 1 F28T5HE Lamps | 12-24 | | | 10 |
| | 90904 | GE224MVPS-N-S35 | 2 or 1 F24T5HO Lamps | 12-25 | | | 10 |

Quick reference ballast selection guide (cont.)

| Std Pack Prod Code | Description | Application | Product Page Number | Pallet Pack | DIY Pack | Std Pack Units Per Carton |
|--------------------|-------------|-------------|---------------------|-------------|----------|---------------------------|
|--------------------|-------------|-------------|---------------------|-------------|----------|---------------------------|

T5 Fluorescent Ballasts

T5 ELECTRONIC PROGRAMMED START BALLASTS

T5 High Efficiency – Rapid Start 120V Residential Ballast

For F13T5, F14T5, F21T5 and F28T5

| | | | | | | |
|-------|------------------|--|------|--|--|--|
| 78518 | GE21T5-120-RES | Electronic ballast for (1) F21T5; or (1) F14T5; or (1) F13T5 | 13-3 | | | |
| 78811 | GE28T5-120-RES | Electronic ballast for (1) F28T5; or (1) F21T5; or (1) F14T5 | 13-3 | | | |
| 80021 | GE28T5/2-120-RES | Electronic ballast for (2) F28T5; or (2) F21T5; or (2) F14T5 | 13-3 | | | |

T5 High Efficiency Programmed Start

For F14 (2 ft), F21 (3 ft), F28 (4 ft), F35 (5 ft) HE T5 Lamps

| | | | | | | |
|-------|----------------|---|------|--|--|----|
| 68994 | GE228MVPS-MC-H | 2 – F21-F28T5HE, 120 to 277 UltraStart® PRS High Light 1.15 BF A Can | 13-4 | | | 10 |
| 68993 | GE228MVPS-MC | 2 or 1 – F14-F28T5HE, 120 – 277 UltraStart® PRS Normal Light - .95 BF A Can | 13-4 | | | 10 |

T5 High Output Programmed Start

For HO T5 Lamps

| | | | | | | |
|-------|------------------|--|-------|--|--|----|
| 68976 | GE224MVPS-N | 2 – F24T5HO PRS UNV 50/60 Hz C Can | 13-5 | | | 10 |
| 47540 | B239PUNV-DOG1C | 2 – F39T5HO PRS UNV 50/60 Hz D Can | 13-5 | | | 10 |
| 67562 | GE254MVPS90-A | 2 or 1 – F54T5HO 120 to 277 UltraStart® PRS High Temp A Can | 13-6 | | | 10 |
| 33957 | GE254MVPS-D-1 | 2 or 1 – F54T5HO 120 to 277V UltraStart® PRS High Temp D Can | 13-7 | | | 10 |
| 94131 | GE454MVPS90-E-S | 4/2 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can | 13-8 | | | 10 |
| 67566 | GE454MVPS90-F | 4-1 – F54T5HO 120 to 277 UltraStart® PS F Can | 13-9 | | | |
| 72280 | GE180MVPS-D | 1 – F80T5HO 120 to 277 UltraStart® PRS D Can | 13-10 | | | 10 |
| 62728 | GE254PS347/480-F | 2 or 1 – F54T5HO 347 to 480V PS High Temp F Can LFL | 13-11 | | | 10 |
| 62729 | GE254PS347-F | 2 or 1 – F54T5HO 347V F Can LFL | 13-12 | | | 10 |
| 62730 | GE454PS347/480-E | 4-1 - F54T5HO 347 to 480V High Temp E Can LFL | 13-13 | | | 8 |
| 62731 | GE454PS347-E | 4-1 - F54T5HO 347V LFL E Can | 13-14 | | | 8 |

T5 lamp lengths are noted to nearest foot and are not exact lengths as noted in feet. See GE Lamp Catalog for exact lamp length.

Step Down Transformers from 480V to Universal Voltage Ballasts

| | | | | | | |
|-------|------------------|--|-------|--|--|----|
| 74119 | GETR480/277-250W | Non-Isolated Autotransformer 480 to 277V, <250 Watts (VA), A can | 13-15 | | | 10 |
| 74120 | GETR480/277-375W | Non-Isolated Autotransformer 480 to 277V, <375 Watts (VA), F can | 13-15 | | | 10 |
| 85857 | GETR277/120-175W | Non-Isolated Autotransformer 277 to 120V, <175 Watts (VA), A Can | 13-16 | | | 6 |
| 90896 | GETR347/277-375W | Non-Isolated Autotransformer 347 to 277V, <375 Watts (VA), F Can | 13-16 | | | 6 |

T12 Fluorescent Ballasts

T12 ELECTRONIC BALLASTS

ProLine® T12

For F20 (2 ft), F30 (3 ft), and F34/F40 (4 ft) T12 Lamps

| | | | | | | |
|-------|--------------|---|------|--|-------|-----------|
| 74472 | GE240PS-MV-N | 2 or 1 – F40 or F34T12 Rapid Start 120 to 277 "N" BF ProLine® T12 | 14-3 | | 74473 | Std. Pack |
|-------|--------------|---|------|--|-------|-----------|

For T12 4 ft – 8 ft Slimline Lamps

| | | | | | | |
|-------|---------------|--|------|--|-------|----|
| 74474 | GE-260IS-MV-N | 2 or 1 – F96T12 Instant Start 120 to 277 | 14-4 | | 74475 | 10 |
|-------|---------------|--|------|--|-------|----|

T12 HIGH OUTPUT

| | | | | | | |
|-------|----------------|---|------|--|-------|-----------|
| 35727 | GE296HO-MVPS-N | 2 or 1 – F96T12 HO RS 120 to 277 Multivolt ProLine® | 14-5 | | 72109 | Std. Pack |
|-------|----------------|---|------|--|-------|-----------|

| | Std Pack Prod Code | Description | Application | Product Page Number | Pallet Pack | DIY Pack | Std Pack Units Per Carton |
|--|-----------------------|------------------|--|------------------------|----------------|-------------|---------------------------------|
| Magnetic Ballasts | | | | | | | |
| For Preheat T12 and T8 Lamps, Circleline T9, Straight T12 and T8 Lamps and 2 Pin CFL Lamps | | | | | | | |
| | 68186 | GEM120PH120DIY | 1 - F20T12, F15T8, F1512, F14T8, F18T8, 120V Magnetic Ballast (200H2) | 15-2 | | 68186 | |
| | 68187 | GEM120TC120DIY | 1 - F20T12, F15T8, F15T12, F14T12, 120V, Magnetic Ballast (546BTC) | 15-2 | | 68187 | |
| | 68190 | GEM1FC16T9RS120 | 2 - FC12T9, FC16T9, FC8T9, FC12T9, 120V, Magnetic (726VLHWSTCP) | 15-3 | | 68190 | |
| | 68193 | GEM1FC8T9RS120IP | 1 - FC8T9, FC6T9, RS, 120V, Magnetic Ballast (547RSWSTCP) | 15-4 | | 68193 | IP Pack |
| | 68191 | GEM1FC8T9RS120DI | 1 - FC8T9, RS, 120V Magnetic Ballast (547RSWSTCP) | 15-4 | | 68191 | IP Pack |
| | 68192 | GEM220TS120DIY | 2- F20T12, F15T8, F15T12, F14T12, 120V, Magnetic Ballast (447LRVLHTCP) | 15-5 | | 68192 | |
| | 68188 | GEM1CF13PH120 | 120V Magnetic Ballast For one 2 Pin 13W CFL Lamp | 15-5 | | 68188 | IP Pack |

FLUORESCENT ACCESSORIES**Starters**

| | | | | | | | |
|--|-------|------------|--|------|--|--|---|
| | 64818 | FS-2-C/TP | Starters for 14, 15 & 20 Watt Flu. Lamps | 15-6 | | | 6 |
| | 64819 | FS-4-C/TP | Starters for 30 & 40 Watt Flu. Lamps | 15-6 | | | 6 |
| | 64820 | FS-25-C/TP | Starters for 22 & 25 Watt Flu. Lamps | 15-6 | | | 6 |
| | 64821 | FS-5-C/TP | Starters for 4, 6 & 8 Watt Flu. Lamps | 15-6 | | | 6 |

Sockets

| | | | | | | | |
|--|-------|----------|--|------|--|--|---|
| | 64822 | BP-LP/TP | Low Profile Socket Set for Bi-Pin Flu. Lamps | 15-6 | | | 7 |
| | 64823 | BP/TP | Socket Set for Bi-Pin Flu. Lamps | 15-6 | | | 7 |
| | 64824 | BP-FM/TP | Face Mount Socket Set for Bi-Pin Flu. Lamps | 15-6 | | | 7 |
| | 64825 | SL-SS/TP | Socket Set for Slimline Flu. Lamps | 15-6 | | | 3 |

Sign Ballasts

For T12 High Output Lamps

| | | | | | | | |
|--|-------|-----------------|--|------|--|--|----|
| | 72103 | GESB-0412-12-IP | T12HO Sign ballast, 4 to 12 ft, 1 to 2 lamps | 16-3 | | | 10 |
| | 72104 | GESB-0620-24-IP | T12HO Sign ballast 6 to 20 ft, 2 to 4 lamps | 16-3 | | | 10 |
| | 72105 | GESB-1224-24-IP | T12HO Sign ballast 12 to 24 ft, 2 to 4 lamps | 16-4 | | | 10 |
| | 72106 | GESB-1240-46-IP | T12HO Sign Ballast 12 to 40 ft, 4 to 6 lamps | 16-4 | | | 10 |
| | 72107 | GESB-2040-24-IP | T12HO Sign Ballast 20 to 40 ft, 2 to 4 lamps | 16-5 | | | 10 |
| | 72108 | GESB-2448-46-IP | T12HO Sign Ballast 6 to 12 ft, 4 to 6 lamps | 16-5 | | | 10 |
| | 88921 | USB-0412-12-IP | 4 to 12 ft, 1 to 2 lamps | 16-6 | | | 10 |

Quick reference ballast selection guide (cont.)

| Prod Code | Description | Application | Product Page Number | | | | Units Per Carton |
|--|-----------------|--|---------------------|--|--|--|------------------|
| Compact Fluorescent Ballasts | | | | | | | |
| ProLine® CFL Electronic Ballasts | | | | | | | |
| For 13 – 70W T4 CFL Lamps | | | | | | | |
| 63091 | GEC213-MVPS-BES | 2 or 1 – CFQ13W/G24q 120-227V ProLine® PS | 17-6 | | | | 10 |
| 63092 | GEC213-MVPS-SE | 2 or 1 – CFQ13W/G24q 120-227V ProLine® PS | 17-6 | | | | 10 |
| 63089 | GEC213-MVPS-3W | 2 or 1 – CFQ13W/G24q 120-227V ProLine® PS | 17-6 | | | | 10 |
| 63094 | GEC218-MVPS-BES | 2 or 1 – CFQ18W/G24q 120-227V ProLine® PS | 17-7 | | | | 10 |
| 63096 | GEC218-MVPS-SE | 2 or 1 – CFQ18W/G24q 120-227V ProLine® PS | 17-7 | | | | 10 |
| 63093 | GEC218-MVPS-3W | 2 or 1 – CFQ18W/G24q 120-227V ProLine® PS | 17-7 | | | | 10 |
| 63098 | GEC226-MVPS-BES | 2 – CFQ26W, FT24 or 1 – 24W CFTR32 120-227V ProLine® PS | 17-8 | | | | 10 |
| 63099 | GEC226-MVPS-SE | 2 – CFQ26W, FT24 or 1 – 24W CFTR32 120-227V ProLine® PS | 17-8 | | | | 10 |
| 63097 | GEC226-MVPS-3W | 2 – CFQ26W, FT24 or 1 – 24W CFTR32 120-227V ProLine® PS | 17-8 | | | | 10 |
| 63101 | GEC242-MVPS-BES | 2 – 42/36/32/28/26/24 watt 120-277V Proline® PS | 17-9 | | | | 10 |
| 63102 | GEC242-MVPS-SE | 2 – 42/36/32/28/26/24 watt 120-277V Proline® PS | 17-9 | | | | 10 |
| 63100 | GEC242-MVPS-3W | 2 – 42/36/32/28/26/24 watt 120-277V Proline® PS | 17-9 | | | | 10 |
| High-Lumen UltraMax® and UltraStart® Ballasts for 40W, 28W, and 25W Biax® | | | | | | | |
| 75948 | GEC140MAX-A | 1 – FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start | 17-10 | | | | 10 |
| 71435 | GEC240MAX-A | 2 or 1 – FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start | 17-11 | | | | 10 |
| 71436 | GEC340MAX-A | 3 – FT40W-25W/2G11 Biax® - 120-277V UltraMax® Instant Start | 17-12 | | | | 10 |
| 71437 | GEC240MVPS-A | 2 or 1 – FT40W/2G11 Biax®- 120-277V UltraStart® Programmed Start | 17-13 | | | | 10 |
| 75950 | GEC225MVPS-A | 2 or 1 – FT25W/2G11 Biax®- 120-277V UltraStart® Programmed Start | 17-13 | | | | 10 |
| CFL Magnetic Ballasts | | | | | | | |
| For 5 – 26W Preheat CFL Lamps | | | | | | | |
| 87533 | GEM1CF13PH120 | 1 – CFT/Q13W/GX23 Preheat 120 (4111H2P) | 17-14 | | | | 10 |

| Prod Code | Description | Application | Product Page Number | ANSI Lamp Type | Circuit Type | Units Per Carton |
|-------------------------------------|-----------------|--|---------------------|-----------------------------|--------------|------------------|
| HID Electronic Ballasts | | | | | | |
| For 20 – 150W Pulse Start HID Lamps | | | | | | |
| 74115 | GEMH20-MC-120 | 1 – 20W M156 or C156 120V Micro Electronic HID | 18-5 | M156 | Electronic | 10 |
| 87490 | GEMH20-MLF-120 | 1 – 20W M156 or C156 120V Electronic HID | 18-5 | M156 | Electronic | 12 |
| 63042 | GEMH20-MSJ-MV | 1-20W M156/C156 120-277V Low frequency Electronic HID | 18-6 | C156 | Electronic | 10 |
| 63043 | GEMH20-MSF-MV | 1-20W M156/C156 120-277V Low frequency Electronic HID | 18-6 | C156 | Electronic | 10 |
| 63044 | GEMH39-MSJ-MV | 1-39W M130/C130 120-277V Low Frequency Electronic HID | 18-7 | C130, M130 | Electronic | 10 |
| 63045 | GEMH39-MSF-MV | 1-39W M130/C130 120-277V Low Frequency Electronic HID | 18-7 | C130, M130 | Electronic | 10 |
| 74116 | GEMH39-MC-120 | 1 – 39W M130 or C130 120V Micro Electronic HID | 18-8 | M130 | Electronic | 10 |
| 75378 | GEMH39-MCM-120 | 1 – 39W M130 or C130 120V Micro Electronic HID Metal Can | 18-8 | M130 | Electronic | 10 |
| 87501 | GEMH39-MSF-120 | 1 – 39W M130 or C130 120V Electronic HID | 18-9 | M130 | Electronic | 10 |
| 87531 | GEMH70-MSF-120 | 1 – 70W, M98, M/C143, 120V Electronic HID | 18-9 | M98, M143, M139, C143, C139 | Electronic | 10 |
| 94135 | GEMH70-MSLF-120 | 1 – 70W, M98/C98, M139/C139, 120V Electronic HID | 18-10 | M98/C98, M139/C139 | Electronic | 10 |
| 87546 | GEMH70-SLJ-MV | 1 – 70W, M98, M/C143, 120V Electronic HID | 18-10 | M98, M143, M139, C143, C139 | Electronic | 10 |
| 87561 | GEMH100-SLJ-MV | 1 – 100W, M90, M/C140, 120V-277V Electronic HID | 18-11 | M90, M140 | Electronic | 10 |
| 87576 | GEMH150-SLJ-MV | 1 – 150W, M102, M/C142, 120V-277V Electronic HID | 18-11 | M102, M142 | Electronic | 10 |

HID Electromagnetic Ballasts**Metal Halide**

For 20 – 175W Metal Halide HID Lamps

| | | | | | | |
|-------|-------------------|--|-------|----------------|--------|---|
| 86824 | GEM50MLTLC3D-5 | 1 – 50W MH M110 or M148 Quad (120/208/240/277V) | 18-12 | M110, M148 | HX-HPF | 6 |
| 86847 | GEM70MLTLC3D-5 | 1 – 70W MH M98 or M143 Quad (120/208/240/277V) | 18-12 | M98, M143 | HX-HPF | 6 |
| 78517 | GEM70TRILC3-5 | 1 – 70W MH M143 Tri Tap (120/277/347V) | 18-13 | M143 | HX-HPF | 6 |
| 67337 | GEM7048TLA3D-5/2 | 1 – 70W MH M98 or M143 480 | 18-13 | M98 | HX-HPF | |
| 86675 | GEM100MLTLC3D-5 | 1 – 100W MH M90 or M140 Quad (120/208/240/277V) | 18-14 | M92, M90, M140 | HX-HPF | 6 |
| 78519 | GEM100TRILC3-5 | 1 – 100W M140 Tri Tap (120/277/347V) | 18-14 | M140 | HX-HPF | 6 |
| 67333 | GEM10048TLA3D-5/2 | 1 – 100W MH M90 or M140 480 | 18-15 | M90, M140 | HX-HPF | 6 |
| 86718 | GEM150MLTLC3D-5 | 1 – 150W MH M102 or M142 Quad (120/208/240/277V) | 18-15 | M142, M102 | HX-HPF | 6 |
| 78520 | GEM150TRILC3-5 | 1 – 150W M102 Tri Tap (120/277/347V) | 18-16 | M102 | HX-HPF | 6 |
| 86711 | GEM15048TLA3D-5 | 1 – 150W MH M102 or M142 480 | 18-16 | M102, M142 | HX-HPF | 6 |
| 87210 | GEM175ML5AC3-5 | 1 – 175W MH M57 5-Tap (120/208/240/277/480V) | 18-17 | M57, M109 | CWA | 6 |
| 86741 | GEM175MLTAC3-5 | 1 – 175W MH M57 Quad (120/208/240/277V) | 18-17 | M57, M107 | CWA | 6 |
| 78521 | GEM175TRIAC3-5 | 1 – 175W MH M57 Tri Tap (120/277/347V) | 18-18 | M57 | CWA | 6 |

Quick reference ballast selection guide (cont.)

| Prod Code | Description | Application | Product Page Number | ANSI Lamp Type | Circuit Type | Units Per Carton |
|--|--------------------|--|---------------------|----------------|-----------------|------------------|
| HID Electromagnetic Ballasts (continued) | | | | | | |
| Metal Halide (continued) | | | | | | |
| For 250 – 1500W Metal Halide HID Lamps | | | | | | |
| 87211 | GEM250ML5AC3-5 | 1 – 250W MH M58 5-Tap (120/208/240/277/480V) | 18-19 | M58 | CWA | 6 |
| 86765 | GEM250MLTAC3-5 | 1 – 250W MH M58 Quad (120/208/240/277V) | 18-19 | M58 | CWA | 6 |
| 78522 | GEM250TRIAC4-5 | 1 – 250W M58 Tri Tap (120/277/347V) | 18-20 | M58 | CWA | 6 |
| 87212 | GEM250ML5AC4-5 | 1 – 250W MH M58 or 5-Tap (120/208/240/277/480V) | 18-20 | M58 | CWA | 3 |
| 78523 | GEM400TRIAC4-5 | 1 – 400W M59 Tri Tap (120/277/347V) | 18-21 | M59 | CWA | 3 |
| 72300 | GEM400ML5AA4-5/2 | 1 – 400W M59 5-Tap (120/208/240/277/480V) Al C&C | 18-21 | M59 | CWA | 3 |
| 72149 | GEM400MLTAA4-5 | 1 – 400W MH M59 Quad (120/208/240/277V) Al C&C | 18-22 | M59 | CWA | 3 |
| 63070 | GEM40048TAA4 – 5/2 | 1 – 400W MH M59 480 | 18-22 | M59 | CWA | 3 |
| 63069 | GEM100048TAC5-5/2 | 1 – 1000W MH M47 480 | 18-23 | M47 | CWA | 2 |
| 87213 | GEM1000ML5AA5-5/2 | 1 – 1000W MH M47 5-Tap (120/208/240/277/480V) | 18-23 | M47 | CWA | 2 |
| 86655 | GEM1000MLTAA5-5/2 | 1 – 1000W MH M47 Quad (120/208/240/277V) | 18-24 | M47 | CWA | 2 |
| 78524 | GEM1000TRIAC5-5 | 1 – 1000W MH M47 Tri Tap (120/277/347V) | 18-24 | M47 | CWA | 2 |
| 86693 | GEM150048TAC5M5-5 | 1 – 1500W MH M48 480 | 18-25 | M48 | CWA | 2 |
| 86698 | GEM1500MLTAC5-5 | 1 – 1500W MH M48 Quad (120/208/240/277V) | 18-25 | M48 | CWA | 2 |
| Pulse Start | | | | | | |
| For 175 – 1000W Pulse Start Metal Halide HID Lamps | | | | | | |
| 67335 | GEP175MLTACA3-5/2 | 1 – 175W PS M137 or M152 Quad (120/208/240/277V) | 18-26 | M152, M137 | Pulse Start CWA | 6 |
| 78525 | GEP175TRIAC3-5 | 1 – 175W PS M137 Tri Tap (120/277/347V) | 18-26 | M137 | Pulse Start CWA | 6 |
| 67334 | GEP17548TAA3-5/2 | 1 – 175W PS M137 or M152 480 | 18-27 | M152, M137 | Pulse Start CWA | 6 |
| 78526 | GEP200TRIAC3-5 | 1 – 200W PS M136 Tri Tap (120/277/347V) | 18-27 | M136 | Pulse Start CWA | 6 |
| 67344 | GEP250MLTAA4-5/2 | 1 – 250W PS M138 or M153 Quad (120/208/240/277V) | 18-28 | M153, M138 | Pulse Start CWA | 3 |
| 78527 | GEP250TRIAC4-5 | 1 – 250W PS M138 Tri Tap (120/277/347V) | 18-28 | M138 | Pulse Start CWA | 3 |
| 67336 | GEP25048TAA4-5/2 | 1 – 250W PS M138 or M153 480 | 18-29 | M153, M138 | Pulse Start CWA | 3 |
| 67345 | GEP320MLTAA4-5/2 | 1 – 320W PS M132 or 154 Quad (120/208/240/277V) | 18-29 | M154, M132 | Pulse Start CWA | 3 |
| 78528 | GEP320TRIAC4-5 | 1 – 320W PS M132 Tri Tap (120/277/347V) | 18-30 | M132 | Pulse Start CWA | 6 |
| 67342 | GEP32048TAC4-5/2 | 1 – 320W PS M132 or M154 480 | 18-30 | M154, M132 | Pulse Start CWA | 3 |
| 67346 | GEP350MLTAA4-5/2 | 1 – 350W PS M131 Quad (120/208/240/277V) | 18-31 | M131 | Pulse Start CWA | 3 |
| 78529 | GEP350TRIAC4-5 | 1 – 350W PS M131 Tri Tap (120/277/347V) | 18-31 | M131 | Pulse Start CWA | 3 |
| 67341 | GEP40048TAA4-5/2 | 1 – 400W PS M135 or M155 480 | 18-32 | M155, M135 | Pulse Start CWA | 3 |
| 67347 | GEM400MLTAA4-5/2 | 1 – 400W PS M59 Quad (120/208/240/277V) | 18-32 | M59 | Pulse Start CWA | 3 |
| 78530 | GEP400TRIAC4-5 | 1 – 400W PS M135 Tri Tap (120/277/347V) | 18-33 | M135 | Pulse Start CWA | 3 |
| 67343 | GEP75048TAA5-5/2 | 1 – 750W PS M149 480 | 18-33 | M149 | Pulse Start CWA | 2 |
| 67350 | GEP750MLTAA5-5/2 | 1 – 750W PS M149 Quad (120/208/240/277V) | 18-34 | M149 | Pulse Start CWA | 2 |
| 78531 | GEP750TRIAC5-5 | 1 – 750W PS M149 Tri Tap (120/277/347V) | 18-34 | M149 | Pulse Start CWA | 2 |
| 67348 | GEP1000MLTAA5-5/2 | 1 – 1000W PS M141 Quad (120/208/240/277V) | 18-35 | M141 | Pulse Start CWA | 2 |
| 78532 | GEP1000TRIAC5-5 | 1 – 1000W PS M141 Tri Tap (120/277/347V) | 18-35 | M141 | Pulse Start CWA | 2 |
| 67349 | GEP1000ML5AA5-5/2 | 1 – 1000W PS M141 5-Tap (120/208/240/277/480V) | 18-36 | M141 | Pulse Start CWA | 2 |

| Prod Code | Description | Application | Product Page Number | ANSI Lamp Type | Circuit Type | Units Per Carton |
|---|-------------------|--|---------------------|----------------|--------------|------------------|
| HID Electromagnetic Ballasts (continued) | | | | | | |
| High Pressure Sodium | | | | | | |
| For 50 – 150W High Pressure Sodium HID Lamps | | | | | | |
| 87152 | GES50MLTLC3D-5 | 1 – 50W HPS S68 Quad (120/208/240/277V) | 18-37 | S68 | HX-HPF | 6 |
| 78533 | GES50TRILC3-5 | 1 – 50W HPS S68 Tri Tap (120/277/347V) | 18-37 | S68 | HX-HPF | 2 |
| 86587 | GES70MLTLA3D-5 | 1 – 70W HPS S62 Quad (120/208/240/277V) | 18-38 | S62 | HX-HPF | 6 |
| 78534 | GES70TRILC3-5 | 1 – 70W HPS S62 Tri Tap (120/277/347V) | 18-38 | S62 | HX-HPF | 2 |
| 67340 | GES7048TLA3D-5/2 | 1 – 70W HPS S62 480V | 18-39 | S62 | HX-HPF | 6 |
| 87074 | GES100MLTLC3D-5 | 1 – 100W HPS S54 Quad (120/208/240/277V) | 18-39 | S54 | HX-HPF | 6 |
| 78535 | GES100TRILC3-5 | 1 – 100W HPS S54 Tri Tap (120/277/347V) | 18-40 | S54 | HX-HPF | 6 |
| 67338 | GES10048TLA3D-5/2 | 1 – 100W HPS S54 480V | 18-40 | S54 | HX-HPF | 6 |
| 87094 | GES150MLTLC3D-5 | 1 – 150W HPS S55 Quad (120/208/240/277V) | 18-41 | S55 | HX-HPF | 6 |
| 78536 | GES150TRILC3-5 | 1 – 150W HPS S55 Tri Tap (120/277/347V) | 18-41 | S55 | HX-HPF | 6 |
| 67339 | GES15048TLA3D-5/2 | 1 – 150W HPS S55 480V | 18-42 | S55 | HX-HPF | 6 |
| For 250 – 1000W High Pressure Sodium HID Lamps | | | | | | |
| 87214 | GES250ML5AA4-5 | 1 – 250W HPS S50 5-Tap (120/208/240/277/480V) | 18-43 | S50 | CWA | 3 |
| 87121 | GES250MLTAC4-5 | 1 – 250W HPS S50 Quad (120/208/240/277V) | 18-43 | S50 | CWA | 3 |
| 78537 | GES250TRIAC4-5 | 1 – 250W HPS S50 Tri Tap (120/277/347V) | 18-44 | S50 | CWA | 3 |
| 63066 | GES400ML5AA4-5 | 1 – 400W HPS S51 5-Tap (120/208/240/277/480V) | 18-44 | S51 | CWA | 3 |
| 87164 | GES400MLTAC4-5 | 1 – 400W HPS S51 Quad (120/208/240/277V) | 18-45 | S51 | CWA | 3 |
| 78539 | GES400TRIAC4-5 | 1 – 400W HPS S51 Tri Tap (120/277/347V) | 18-45 | S51 | CWA | 3 |
| 87198 | GES40048TAC4-5 | 1 – 400W HPS S51 480V in smaller frame | 18-46 | S51 | CWA | 3 |
| 67351 | GES100048TAA5-5/2 | 1 – 1000W HPS S52 480V | 18-46 | S52 | CWA | 2 |
| 87218 | GES1000ML5AA5-5 | 1 – 1000W HPS S52 5-Tap (120/208/240/277/480V) | 18-47 | S52 | CWA | 2 |
| 67352 | GES1000MLTAA5-5/2 | 1 – 1000W HPS S52 Quad (120/208/240/277V) | 18-47 | S52 | CWA | 2 |
| 78540 | GES1000TRIAC5-5 | 1 – 1000W HPS S52 Tri Tap (120/277/347V) | 18-48 | S52 | CWA | 2 |
| High Intensity Discharge Lamp and Ballast Kits | | | | | | |
| 71701 | GEM175ML5AC3-55 | 1 – 175W MH M57 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55) | 18-49 | M57, M109 | CWA | 6 |
| 71702 | GEM250ML5AC3-55 | 1 – 250W MH M58 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55) | 18-49 | M58 | CWA | 6 |
| 71703 | GEM400ML5AC4-55 | 1 – 400W MH M59 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55) | 18-50 | M59 | CWA | 3 |
| 71704 | GEM1000ML5AC4-55 | 1 – 1000W MH M47 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55) | 18-50 | M47 | CWA | 2 |
| 71705 | GES100MLTLC3D-55 | 1 – 100W HPS S54 Quad (120/208/240/277V) Lamp & Ballast Kit (-55) | 18-51 | S54 | HX-HPF | 6 |
| 71706 | GES250ML5AC4-55 | 1 – 250W HPS S50 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55) | 18-51 | S50 | CWA | 3 |
| 71707 | GES400ML5AC4-55 | 1 – 400W HPS S51 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55) | 18-52 | S51 | CWA | 3 |

Quick reference ballast selection guide (cont.)

| | Prod Code | Description | Application | Product Page Number | ANSI Lamp Type | Circuit Type | Units Per Carton |
|--|-----------|----------------------|---|---------------------|----------------|--------------|------------------|
| HID Electromagnetic Ballasts (continued) | | | | | | | |
| HID Metal Halide F-Can | | | | | | | |
| | 86576 | 11210277CTC000C | 1 – 70W M85 120/277 Enclosed & Potted F-Can | 18-53 | M85 | HX-HPF | 4 |
| | 63047 | GEM70MVR-F | 1 – 70W M98 120/277 Enclosed & Potted F-Can | 18-53 | M98 | HX-HPF | 4 |
| | 63048 | GEMH100MVR-F | 1 – 100W M90 120/277 Enclosed & Potted F-Can | 18-54 | M90 | HX-HPF | 4 |
| | 63049 | GEMH150MVR-F | 1 – 150W MH 120/277 Enclosed & Potted F-Can | 18-54 | M102 | HX-HPF | 2 |
| | 63050 | GEMH175MVA-F | 1 – 175W M57 120/277 Enclosed & Potted F-Can | 18-55 | M57, H39 | CWA | 2 |
| | 63051 | GEMH250MVA-F | 1 – 250W M58 120/277 Enclosed & Potted F-Can | 18-55 | M58, H37 | CWA | 2 |
| | 63052 | GEMH400MVA-F | 1 – 400W M59 120/277 Enclosed & Potted F-Can | 18-56 | M59, H39 | CWA | 2 |
| | 80728 | 1111-247SCTC000I | 1 – 400W M59 120/277 Enclosed & Potted F-Can | 18-56 | M59, H33 | CWA | 4 |
| HID - High Pressure Sodium F-Can | | | | | | | |
| | 86596 | 12210237CTC000I | 1 – 70W S62 120/277 E & P F-Can built-in starter | 18-57 | S62 | HX-HPF | 4 |
| HID - High Pressure Sodium Reactor | | | | | | | |
| | 86605 | 1233142U000I | 1 – 70W S62 120 Reactor-NPF | 18-58 | S62 | R-HPF, R-NPF | 6 |
| | 86606 | 1233154U000I | 1 – 150W S55 120 Reactor-NPF | 18-58 | S55 | R-NPF | 6 |
| HID ACCESSORIES | | | | | | | |
| Replacement Ignitors for Pulse Start Lamps – (MH and HPS) | | | | | | | |
| | 75440 | MH100-3A MH350-1A | Ignitor for MH 30 50 70 100 Ignitor MH 150W, PS 175 250 320 350 400W | 18-59 | | | 20 |
| | 75441 | MH750-1B | Ignitor MH PS 750W | 18-59 | | | |
| | 86635 | HPS150-3A | Ignitor HPS 150 watts or less except 150W-S56 | 18-59 | | | 20 |
| | 86641 | HPS400-3A | Ignitor HPS 200-400 watts & 150W S56 | 18-59 | | | 10 |
| | 75439 | HPS1000-4B | Ignitor HPS 1000W, PS 1000W | 18-59 | | | |
| Other Accessories | | | | | | | |
| | 47621 | 000-8724 | HIDP Adjustable Mounting Bracket Hardware Kit | 18-59 | | | 100 |
| REPLACEMENT CAPACITORS | | | | | | | |
| | 75433 | 005-1184-MF | 10.0 MFD 400V 90C 2.4 MEG 1.50 oval 2.7 ht | 18-59 | | | 20 |
| | 75668 | 005-2779-MF | 24.0 MFD 480V 90C 1.75 oval 3.9 ht | 18-59 | | | 20 |
| | 75429 | GECAP-5/300V-D | Capacitor 5MFD 280V Dry | 18-59 | | | 20 |
| | 75425 | GECAP-6/280V-D | Capacitor 6MFD 280V Dry | 18-59 | | | 20 |
| | 75430 | GECAP-7/300V-D | Capacitor 7MFD 300V Dry | 18-59 | | | 20 |
| | 75426 | GECAP-8/280V-D | Capacitor 8MFD 280V Dry | 18-59 | | | 20 |
| | 75433 | GECAP-10/400V-O | Capacitor 10MFD 400V Oil | 18-59 | | | 20 |
| | 75427 | GECAP-12/280V-D | Capacitor 12MFD 280V Dry | 18-59 | | | 20 |
| | 75669 | GECAP-14/280V-D | Capacitor 14MFD 280V Dry | 18-59 | | | 20 |
| | 75434 | GECAP-15/400V-O | Capacitor 15MFD 400V Oil | 18-59 | | | 20 |
| | 75428 | GECAP-16/280V-D | Capacitor 16MFD 280V Dry | 18-59 | | | 20 |
| | 75431 | GECAP-21/345V-O | Capacitor 21MFD 345V Oil | 18-59 | | | 20 |
| | 75432 | GECAP-22.5/345V-O | Capacitor 22.5MFD 345V Oil | 18-59 | | | 20 |
| | 75435 | GECAP-24/400V-O | Capacitor 24MFD 400V Oil | 18-59 | | | 20 |
| | 75668 | GECAP-24/480V-O | Capacitor 24MFD 480V Oil | 18-59 | | | 20 |
| | 75437 | GECAP-26/525V-O | Capacitor 26MFD 525V Oil | 18-59 | | | 20 |
| | 75436 | GECAP-28/400V-O | Capacitor 28MFD 400V Oil | 18-59 | | | 20 |
| | 75438 | GECAP-32/525V-O | Capacitor 32MFD 525V Oil | 18-59 | | | 20 |
| | 75422 | GECAP-35/240V-D | Capacitor 35MFD 240V Dry | 18-59 | | | 20 |
| | 75423 | GECAP-55/240V-D | Capacitor 55MFD 240V Dry | 18-59 | | | 20 |

Incandescent Lamps

| | | | |
|--|------|--|------|
| Bulb Identification | 1-2 | Export-Only | |
| Filament Identification | 1-2 | 40 Watts..... | 1-15 |
| Base Identification | 1-2 | 60 Watts..... | 1-16 |
| Lamp Locator | 1-3 | 75 Watts..... | 1-16 |
| Introduction | 1-4 | 85 Watts..... | 1-16 |
| Incandescent Brand Name Cross-Reference | 1-4 | 100 Watts..... | 1-16 |
| GE Reveal® Light Bulbs | 1-5 | 120 Watts..... | 1-16 |
| GE Rough Service A-Line Bulbs | 1-5 | 150 Watts..... | 1-16 |
| GE Long Life Floodlight or Spotlight | 1-5 | Airport | |
| Section Headings | 1-6 | 30 Watts..... | 1-16 |
| Incandescent Lamps | | 40 Watts..... | 1-16 |
| 3-10 Watts | 1-7 | 200 Watts..... | 1-16 |
| 15 Watts..... | 1-8 | 620 Watts..... | 1-16 |
| 15/135/150 Watts..... | 1-8 | Landscape Lighting | |
| 18 Watts..... | 1-8 | 4 Watts | 1-16 |
| 20 Watts..... | 1-8 | 7 Watts | 1-16 |
| 25 Watts..... | 1-8 | 11 Watts..... | 1-16 |
| 27 Watts..... | 1-9 | Decorative | |
| 30 Watts..... | 1-9 | 3 Watts | 1-16 |
| 30/70/100 Watts..... | 1-9 | 15 Watts..... | 1-17 |
| 40 Watts..... | 1-9 | 25 Watts..... | 1-17 |
| 45 Watts..... | 1-10 | 40 Watts..... | 1-18 |
| 50 Watts..... | 1-10 | 60 Watts..... | 1-19 |
| 50/100/150 Watts..... | 1-11 | 75 Watts..... | 1-19 |
| 50/200/250 Watts..... | 1-11 | 100 Watts..... | 1-19 |
| 60 Watts..... | 1-11 | 150 Watts..... | 1-19 |
| 65 Watts..... | 1-11 | Portable Lighting Products | 1-19 |
| 70 Watts..... | 1-12 | Contractor Packs | 1-19 |
| 75 Watts..... | 1-12 | Warning and Caution Notices | 1-20 |
| 85 Watts..... | 1-12 | Cross-Reference | 1-21 |
| 90 Watts..... | 1-12 | | |
| 100 Watts..... | 1-12 | | |
| 100/200/300 Watts | 1-13 | | |
| 110 Watts..... | 1-13 | | |
| 120 Watts..... | 1-13 | | |
| 125-175 Watts..... | 1-13 | | |
| 175 Watts..... | 1-13 | | |
| 200 Watts..... | 1-14 | | |
| 240 Watts..... | 1-14 | | |
| 250 Watts..... | 1-14 | | |
| 300 Watts..... | 1-14 | | |
| 350-500 Watts..... | 1-15 | | |
| 1000 Watts | 1-15 | | |

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

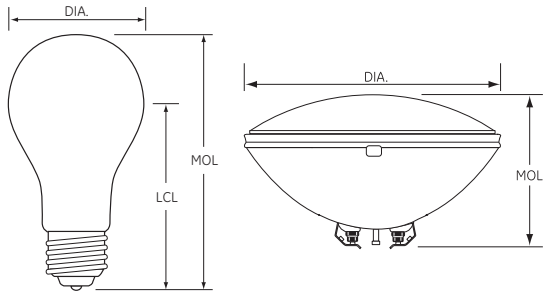
Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

Incandescent Lamps

Bulb Identification



DIA: Diameter of bulb at widest point.

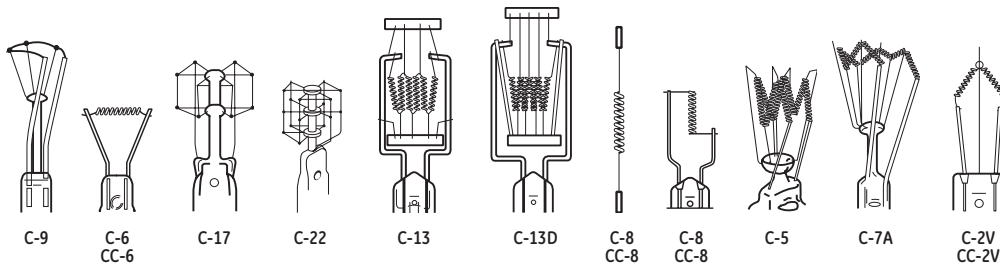
MOL: Maximum Overall Length including base or pins.

LCL: Distance between the center of the arc tube and the Light Center Length reference plane.

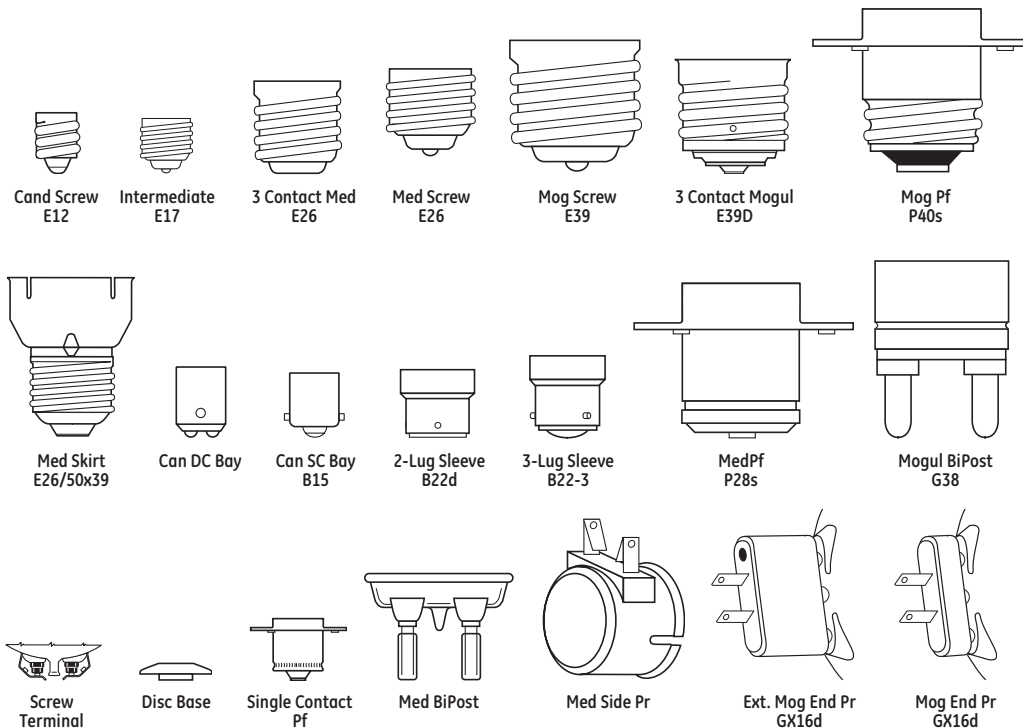
Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

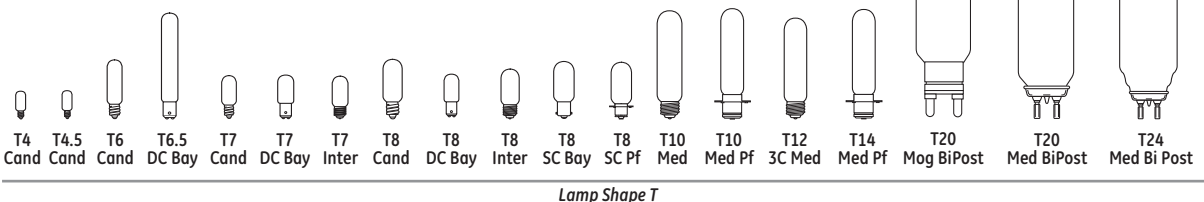
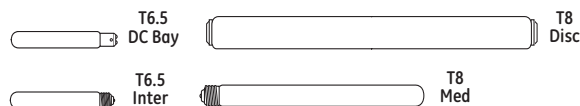
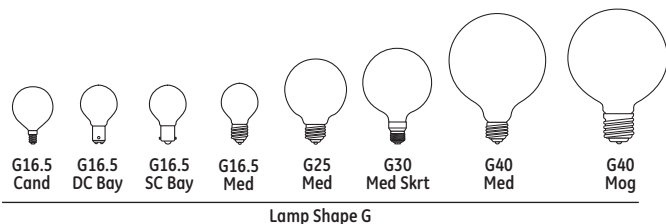
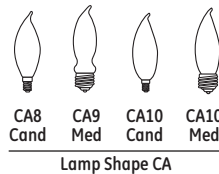
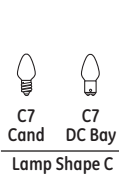
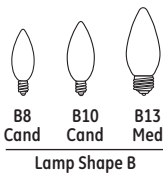
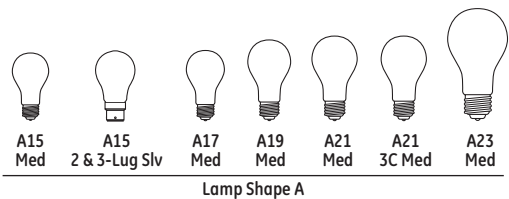
Filament Identification



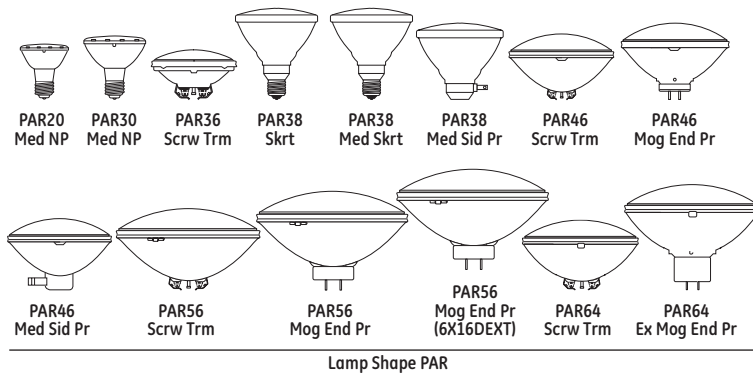
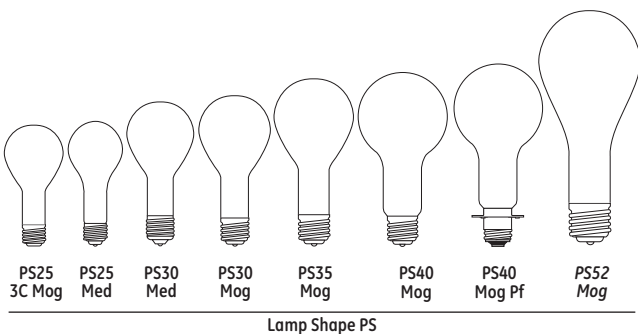
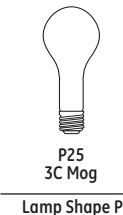
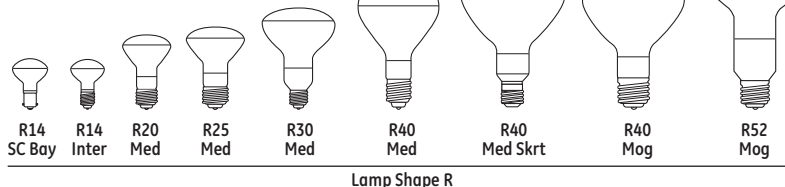
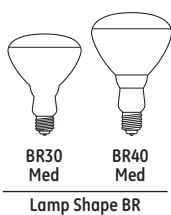
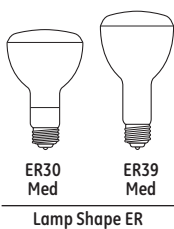
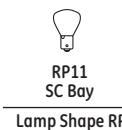
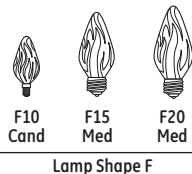
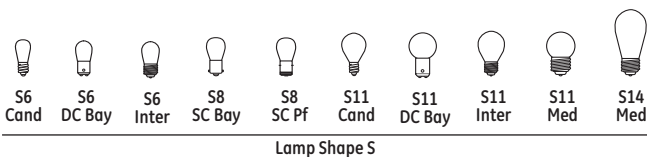
Base Identification



Lamp Locator



Lamp Shape M



Incandescent Lamps

Introduction

GE's incandescent lamps trace their ancestry to the world's first practical electric bulb, invented by Thomas Alva Edison, founder in 1879 of the company that became General Electric Company.

More than a century of research and development later, the present range of GE incandescent lamps represents the state of the art of lamps for residential and commercial use, as well as special purpose lamps for decorative or display applications.

In an incandescent lamp, light is generated by heating the filament to incandescence. The hotter the filament, the more efficient it is in converting electricity to light. However, when the filament operates hotter, its life is shortened so the design of each lamp is a balance between efficiency and life. This is why lamps of equal wattage may have different lumen ratings and different life ratings.

Incandescent lamps of similar size are commonly available with different wattage ratings. The fixture wattage limit should not be exceeded.

Protection From Moisture

When Hard Glass appears in the Additional Information column, the outer bulbs are made of special thermal-shock-resistant glass. Sometimes external protection of the lamps is also needed to eliminate the chance of bulb breakage due to contact with water during operation. Footnotes will indicate when external protection is needed. Where Hard Glass is not indicated, the bulb glass is such that the lamps require protection from exposure to mist or condensation as well as direct contact with water during operation.

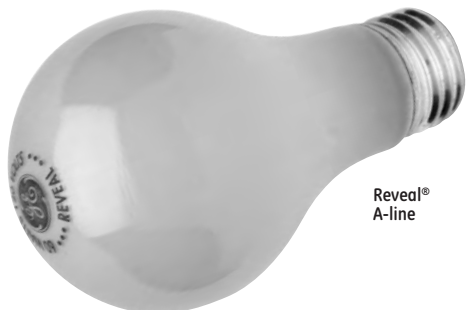
Rated Life

Values are based on a large number of representative lamps under controlled conditions. Individual lamps or groups of lamps will vary from the Rated Life shown. Rated Life is a median value of life expectancy – the total operating time at which under normal conditions 50% of any large group of initially installed lamps are expected to be still burning.

Incandescent Brand Name Cross-Reference

| GE | OSRAM/SYLVANIA | PHILIPS |
|----------------------|-------------------------|------------------------|
| Reveal® | — | — |
| Bug-Lite | Bug Lite | Bug-A-Way® |
| covRguard® | Safeline | Silicone Coated |
| Saf-T-Gard® | — | — |
| Soft Pink | Soft Pink | Softone Pastels |
| Plant Light | Spot-GRO | Agro-Lite |
| Long Life Soft White | Double Life™ Soft White | Longer Life Soft White |
| Party Light | — | — |
| Watt-Miser® | Super Saver® | Econ-o-Watt® |
| Watt-Miser® Plus | Super Saver Excel® | Extended Service |

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE brands. Individual lamp manufacturers' product offerings and performance specifications are subject to change at any time without notice. Lamp performance may be affected by environmental conditions, and/or auxiliary equipment.



Reveal®
A-line

GE Reveal® Light Bulbs

Superior light quality over regular incandescent that:

- Produces “clean, beautiful light®” for more vibrant colors
- Contains Neodymium glass that filters out dull yellow rays
- Is available in 40-150 watt A-Line
- Also available for nearly every application from candle shapes to flood lights
- A color-enhanced full-spectrum light bulb

GE Rough Service A-Line Bulbs

Built to last, even under many “rough” service conditions...

- Extra filament support design protects against early burnouts caused by bumps, jars and vibration
- Longer life
- Dual Voltage Rating (120V/130V) provides application flexibility
- Saf-T-Gard® coating available – coating is shatter and weather-resistant; resists breakage from heat and thermal shock that can occur from water, sleet, snow, molten solder and weld spatter

GE Long Life Floodlight or Spotlight

- 25% longer life than standard reflectors. Ideal for use in high ceilings and hard-to-reach track lighting
- Easy replacement – same length and width as standard R bulbs
- Some lumen loss from standard reflectors (see listing for lumen values)
- Available in 45W floodlight and 65W floodlight and spotlight

Uses:

- Down lighting, display lighting, accent lighting, wall washing
- Wherever standard reflector bulbs are used



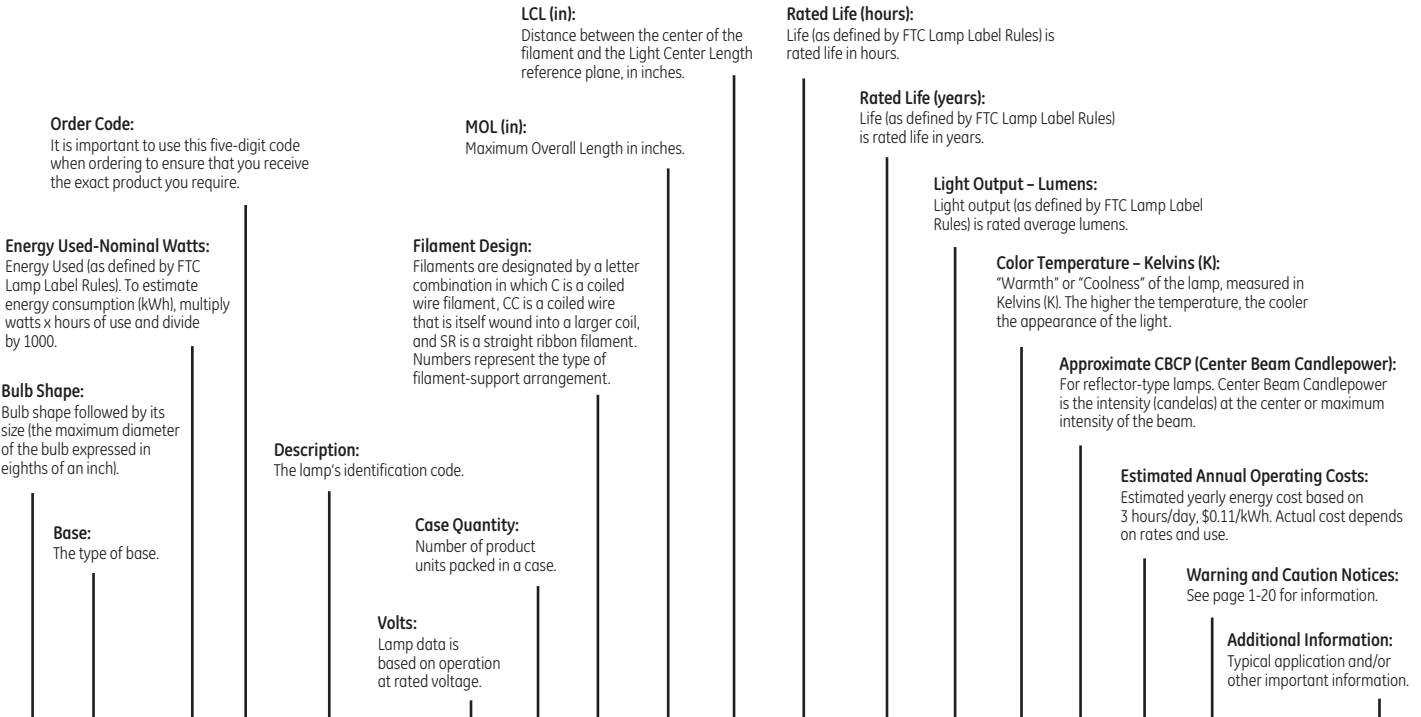
Long Life
BR30 Reflector
Floodlight or
Spotlight

Incandescent Lamps

Headings in this catalog section

The following terms and descriptions can help you when checking Incandescent lamp specifications and when ordering products.

Within this product line, lamps are divided by wattage. Within wattage, lamps are listed alphabetically by bulb shape.



| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|---------------------------|------|-------|------------|-----------------|-------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|------|--------------------------|-----------------------------|------------------------|
| Incandescent Lamps | | | | | | | | | | | | | | | | | |
| 3 Watts | | | | | | | | | | | | | | | | | |
| S6 | Cand | 3 | 11098 | 75R30/FL/65WM/A | 130 | 24 | C-7A | 1.87 | 1.37 | 3000 | 11 | | | | | | Clear-Indicator |

75 R30 / FL / 65WM / A

Identifies the lamp's wattage.

Identifies the lamp's shape.

Identifies the lamp as a floodlight.

Identifies the lamp as a Watt-Miser®

Identifies this lamp as amber colored.

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify the lamp wattage.
2. Measure bulb diameter using ruler in appendix section page D-1 to determine width in eighths of an inch.
3. Identify base type using table on page 1-2.
4. Find your lamp in the table containing the bulb wattage, then match the shape, size and base, which are all listed alphabetically.

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information | |
|---------------------------|--------|-------|------------|-----------------|-------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|------|--------------------------|-----------------------------|-------------------------------|-------------------------------|
| Incandescent Lamps | | | | | | | | | | | | | | | | | | |
| 3 Watts | | | | | | | | | | | | | | | | | | |
| S6 | Cand | 3 | 11098 | 3S6/5 24PK | 130 | 24 | C-7A | 1.87 | 1.37 | 3000 | | 11 | | | | | Clear-Indicator | |
| 4 Watts | | | | | | | | | | | | | | | | | | |
| C7 | Cand | 4 | 16001 | 4C7/W CD2 | 120 | 240 | C-7A | 2.12 | | 3000 | | | | | | 2e | White-Long Life Night Light | |
| | | 4 | 43050 | 4C7 CARD 2 | 120 | 240 | C-7A | 2.12 | | 3000 | | | | | | 2e | Long Life Clear Night Light | |
| | | 4 | 20572 | 4C7/S CD4 | 120 | 120 | C-7A | 2.12 | | 2000 | | | | | | 2e | Standard-Clear Night Light | |
| | | 4 | 73257 | 4C7/S/CD4-6PK | 120 | 6 | C-7A | 2.12 | | 2000 | | | | | | 2e | Standard-Clear Night Light | |
| | | 4 | 20573 | 4C7/W/S CD4 | 120 | 120 | C-7A | 2.12 | | 2000 | | | | | | 2e | Standard-White Night Light | |
| | | 4 | 73258 | 4C7/S/W/CD4-6PK | 120 | 6 | C-7A | 2.12 | | 2000 | | | | | | 2e | Standard-Clear Night Light | |
| | | 4 | 73259 | 4C7/PK/CD2-6PK | 120 | 6 | C-7A | 2.12 | | 3000 | | | | | | 2e | Pink-Long Life Night Light | |
| | | 4 | 26222 | 4C7/PK-CD2 6PK | 120 | 240 | C-7A | 2.12 | | 3000 | | | | | | 2e | Pink-Long Life Night Light | |
| | | 4 | 73260 | 4C7/BL/CD2-6PK | 120 | 6 | C-7A | 2.12 | | 3000 | | | | | | 2e | Blue-Long Life Night Light | |
| | | 4 | 26223 | 4C7/BL CD2 6PK | 120 | 240 | C-7A | 2.12 | | 3000 | | | | | | 2e | Blue-Long Life Night Light | |
| 6 Watts | | | | | | | | | | | | | | | | | | |
| S6 | Cand | 6 | 11316 | 6S6 24PK | 12 | 24 | C-2V | 1.87 | 1.37 | 1500 | | 50 | | | | | | Clear-Indicator |
| | | 6 | 11329 | 6S6 | 24 | 240 | C-2V | 1.87 | 1.37 | 1500 | | 50 | | | | | | Clear-Indicator |
| | | 6 | 11331 | 6S6 24PK | 30 | 24 | C-2V | 1.87 | 1.37 | 1500 | | 50 | | | | | | Clear-Train |
| | | 6 | 43397 | 6S6 BB | 32 | 24 | C-2V | 1.87 | 1.37 | 1500 | | 50 | | | | | | Clear-Train |
| | | 6 | 11367 | 6S6 TRAY | 120 | 240 | C-7A | 1.87 | 1.37 | 1500 | | 41 | | | | | | Clear-Indicator, 12-Lamp Tray |
| | | 6 | 11577 | 6S6/3 | 120 | 240 | C-7A | 1.87 | 1.37 | 5000 | | 23 | | | | | | Clear-Signal Light |
| | | 6 | 15820 | 6S6 CARD2 | 120 | 240 | C-7A | 1.87 | 1.37 | 1500 | | 41 | | | | | | Clear-Indicator |
| | | 6 | 11369 | 6S6 TRAY | 130 | 240 | C-7A | 1.87 | 1.37 | 1500 | | 41 | | | | | | Clear-Indicator, 12-Lamp Tray |
| | | 6 | 11372 | 6S6 | 145 | 240 | C-7A | 1.87 | 1.37 | 1500 | | 38 | | | | | | Clear-Indicator |
| | | 6 | 11374 | 6S6 | 155 | 240 | C-7A | 1.87 | 1.37 | 1500 | | 38 | | | | | | Clear-Indicator |
| S6 | DC Bay | 6 | 11357 | 6S6DC 24PK | 75 | 24 | C-7A | 1.81 | 1.43 | 1500 | | 45 | | | | | | Clear-Indicator |
| | | 6 | 11592 | 6S6DC TRAY | 120 | 240 | C-7A | 1.81 | 1.43 | 1500 | | 41 | | | | | Clear-Indicator, 12-Lamp Tray | |
| | | 6 | 11594 | 6S6/DC TRAY | 130 | 240 | C-7A | 1.81 | 1.43 | 1500 | | 41 | | | | | Clear-Indicator, 12-Lamp Tray | |
| | | 6 | 11609 | 6S6DC 24PK | 145 | 24 | C-7A | 1.81 | 1.43 | 1500 | | 41 | | | | | Clear-Indicator, 12-Lamp Tray | |
| S6 | Inter | 6 | 11660 | 6S6/7 TRAY 24PK | 120 | 24 | C-7A | 1.81 | 1.06 | 1500 | | 41 | | | | | Clear-Indicator, 12-Lamp Tray | |
| T4.5 | Cand | 6 | 11764 | 6T41/2/1 | 130 | 100 | C-7A | 1.87 | 1.31 | 1500 | | 42 | | | | | Clear-Indicator | |
| 7 Watts | | | | | | | | | | | | | | | | | | |
| C7 | Cand | 7 | 11779 | 7C7 TRAY | 120 | 240 | C-7A | 2.12 | | 3000 | | 46 | | | | | | Clear-Indicator, 12-Lamp Tray |
| | | 7 | 11815 | 7C7/W TRAY | 120 | 240 | C-7A | 2.12 | | 3000 | | 36 | | | | | White-Indicator, 12-Lamp Tray | |
| | | 7 | 11792 | 7C7 TRAY | 130 | 240 | C-7A | 2.12 | | 3000 | | 46 | | | | | Clear-Indicator, 12-Lamp Tray | |
| 7.5 Watts | | | | | | | | | | | | | | | | | | |
| S11 | Med | 8 | 11847 | 7 1/2S TRAY | 120 | 240 | C-9 | 2.25 | | 1400 | | 53 | | | | 2e | Clear-12-Lamp Tray | |
| | | 8 | 73261 | 71/2S/CW/CD-5PK | 120 | 5 | C-9 | 2.25 | | 1400 | | 39 | | | | 2e | White | |
| | | 8 | 41267 | 71/2S/CW CARD | 120 | 240 | C-9 | 2.25 | | 1400 | | 39 | | | | 2e | White Night Light | |
| | | 8 | 11848 | 7 1/2S TRAY | 130 | 240 | C-9 | 2.25 | | 1400 | | 53 | | | | 2e | Clear-12-Lamp Tray | |
| | | 8 | 11922 | 7 1/2S/CW TRAY | 130 | 240 | C-9 | 2.25 | | 1400 | | 39 | | | | 2e | White-12-Lamp Tray | |
| 10 Watts | | | | | | | | | | | | | | | | | | |
| S6 | Cand | 10 | 12041 | 10S6/10 | 230 | 24 | C-7A | 1.87 | 1.37 | 1500 | | 66 | | | | | | Clear-Indicator |
| | | 10 | 12050 | 10S6/10 24PK | 250 | 24 | C-7A | 1.87 | 1.37 | 1500 | | 66 | | | | | | Clear-Indicator |
| S6 | DC Bay | 10 | 12060 | 10S6/10DC 24PK | 230 | 24 | C-7A | 1.87 | 1.87 | 1500 | | 66 | | | | | Clear-Indicator | |
| S11 | Cand | 10 | 12249 | 10S11/79 | 120 | 120 | C-7A | 2.31 | 1.56 | 1000 | | 80 | | | | | | Clear-Indicator |
| | | 10 | 12188 | 10S11N/F | 120 | 120 | C-7A | 2.31 | 1.62 | 1000 | | 79 | | | | | | Frost-Appliance |

* Based on 3 hours per day use.
 ** Based on 3 hours per day use, \$0.11 per Kwh

Incandescent Lamps

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information | |
|---------------------------------------|--------------|-----------------|------------|-----------------|-------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|-------|--------------------------------|-----------------------------|----------------------------------|-------|
| Incandescent Lamps (continued) | | | | | | | | | | | | | | | | | | |
| 15 Watts | | | | | | | | | | | | | | | | | | |
| A15 | Med | 15 | 97491 | 15A/W-2PK | 120 | 24 | C-9 | 3.50 | 2.37 | 2500 | | 110 | | | | | Soft-White | |
| | | 15 | 12658 | 15A15 | 130 | 120 | C-9 | 3.50 | 2.37 | 2500 | | 115 | | | | | Inside Frost | |
| | | 15 | 97488 | 15A15/CL-2PK | 120 | 24 | C-9 | 3.50 | 2.37 | 2500 | | 110 | | | | | | Clear |
| R14 | SC Bay B15 | 15 | 33404 | 15R14SC/SP | 12 | 120 | CC-8 | 2.62 | | 2000 | | 120 | | | | 5e | Reflector Spot | |
| S11 | Cand | 15 | 13210 | 15S11/13 | 120 | 120 | C-7A | 2.25 | 1.56 | 750 | | 115 | | | | | Clear | |
| S11 | DC Bay | 15 | 13188 | 15S11/3DC | 75 | 120 | C-9 | 2.37 | 1.25 | 1000 | | 138 | | | | | Clear-Train | |
| S11 | Med | 15 | 13291 | 15S11/102 | 120 | 240 | C-7A | 2.25 | | 400 | | 120 | | | | | Clear-Refrigerator, 12-Lamp Tray | |
| T6 | Cand | 15 | 13390 | 15T6 | 120 | 60 | C-7A | 3.06 | 1.56 | 2000 | | 107 | | | | | Clear-Exit | |
| | | 15 | 13402 | 15T6 | 145 | 60 | C-7A | 3.06 | 1.56 | 1500 | | 102 | | | | | Clear-Exit | |
| | | 15 | 22114 | 15T6C-CD | 145 | 120 | C-7A | 3.06 | 1.56 | 1500 | | 102 | | | | | Clear-Exit, Blister Card | |
| T7 | Cand | 15 | 13494 | 15T7C | 120 | 120 | C-7A | 2.25 | 1.50 | 3000 | | 108 | | | | | Clear-Signal Light, Appliance | |
| T7 | DC Bay | 15 | 35154 | 15T7DC CARD | 120 | 240 | C-7A | 2.25 | 1.31 | | | 108 | | | | | Clear-Appliance, 12-Pack | |
| T7 | Inter | 15 | 35153 | 15T7N CARD | 120 | 240 | C-7A | 2.25 | 1.56 | | | 108 | | | | | Clear-Appliance | |
| T10 | Med | 15 | 34407 | 15T10 24PK | 120 | 24 | C-8 | 5.60 | | 2500 | | 120 | | | | 5e, 9d | Clear - Aquarium Light Bulb | |
| 15/135/150 Watts | | | | | | | | | | | | | | | | | | |
| A21 | Med | 15/135/150 | 23068 | 15/150-SECURITY | 120 | 60 | C-2R/CC-8 | 5.25 | 3.87 | 1200 | 1.1 | 75/2080/2155 | 2800 | | \$1.81/ \$16.26/ \$18.07 | 2b, 9c, 9j | Security 3-Way, Soft-White | |
| 18 Watts | | | | | | | | | | | | | | | | | | |
| S11 | SC Bay BA15s | 18 | 13655 | 18S11/15C | 10 | 120 | CC-6 | 2.37 | 1.25 | 2000 | | 200 | | | | | Clear-Railway Signal Light | |
| 20 Watts | | | | | | | | | | | | | | | | | | |
| T6.5 | DC Bay | 20 | 34241 | 20T61/2DC/F | 120 | 60 | C-8 | 5.56 | | 5000 | | 90 | | | | | Frost-Exit Light | |
| T6.5 | Inter | 20 | 34272 | 20T61/2/F | 120 | 60 | C-8 | 5.50 | | 7000 | | 90 | | | | | Frost-Exit Light | |
| 25 Watts | | | | | | | | | | | | | | | | | | |
| A19 | Med | 25 | 97478 | 25A/CL-2PK | 120 | 24 | CC-6 | 4.25 | 2.50 | 2500 | | 215 | | | \$3.01 | | Clear | |
| | | 25 | 97857 | 25A/CL/2PK-130V | 130 | 24 | CC-6 | 4.25 | 2.50 | 2500 | | 215 | | | \$3.01 | | Clear | |
| | | 25 | 97864 | 25A/2PK-130V | 130 | 24 | CC-6 | 4.25 | 2.50 | 2500 | | 215 | | | \$3.01 | | Inside Frost | |
| | | 25 | 97492 | 25A/W-2PK | 120 | 24 | CC-6 | 4.25 | 2.50 | 2500 | | 210 | | | \$3.01 | | Soft White | |
| | | 25 | 97765 | 25A/W-2/10PK | 120 | 20 | CC-6 | 4.25 | 2.50 | 2500 | | 210 | | | \$3.01 | | Soft White | |
| | | 25 | 16333 | 25A/TP-CD 6PK | 120 | 24 | C-9 | 3.87 | 2.37 | 2000 | | | | | \$3.01 | | Transp. Purple-Party Light | |
| | | 25 | 16335 | 25A/TY-CD 6PK | 120 | 24 | C-9 | 3.87 | 2.37 | 2000 | | | | | \$3.01 | | Transp. Yellow-Party Light | |
| | | 25 | 22731 | 25A/TP 6 PK | 120 | 120 | C-9 | 3.87 | 2.37 | 2000 | | | | | \$3.01 | | Transp. Purple-Party Light | |
| | | 25 | 49728 | 25A/TY 6PK | 120 | 120 | C-9 | 3.87 | 2.37 | 2000 | | | | | \$3.01 | | Transp. Yellow-Party Light | |
| | | 25 | 49724 | 25A/TB 6PK | 120 | 120 | C-9 | 3.87 | 2.37 | 2000 | | | | | \$3.01 | | Transp. Blue-Party Light | |
| | | 25 | 22732 | 25A/TE 6PK | 120 | 120 | C-9 | 3.87 | 2.37 | 2000 | | | | | \$3.01 | | Transp. Teal-Party Light | |
| | | 25 | 49725 | 25A/TG 6PK | 120 | 120 | C-9 | 3.87 | 2.37 | 2000 | | | | | \$3.01 | | Transp. Green-Party Light | |
| | | 25 | 22730 | 25A/TPK 6PK | 120 | 120 | C-9 | 3.87 | 2.37 | 2000 | | | | | \$3.01 | | Transp. Pink-Party Light | |
| | | 25 | 49727 | 25A/TR 6PK | 120 | 120 | C-9 | 3.87 | 2.37 | 2000 | | | | | \$3.01 | | Transp. Red-Party Light | |
| 25 | 46645 | 25A/SG/CD-PQ1/5 | 120 | 25 | CC-6 | 4.25 | 2.50 | 1500 | | | | | \$3.01 | | Stained Glass | | | |
| PAR36 | Scrw Term | 25 | 14553 | 25PAR36 | 6 | 12 | C-6 | 2.75 | | 1000 | | 130 | 3000 | 19700 | | | Pin Spot, Filament Shield | |
| | | 25 | 14554 | 25PAR36/NSP | 12 | 12 | C-6 | 2.75 | | 2000 | | 150 | | 2600 | | | Narrow Spot, Filament Shield | |
| | | 25 | 14555 | 25PAR36/WFL | 12 | 12 | C-6 | 2.75 | | 2000 | | 150 | | 360 | | | Wide Flood, Filament Shield | |
| | | 25 | 14556 | 25PAR36/VWFL | 12 | 12 | C-6 | 2.75 | | 2000 | | 150 | | 160 | | | Very Wide Flood, Filament Shield | |

* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|---------------------------------------|--------------|-----------|------------|-------------------|-------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|-------|--------------------------|-----------------------------|---|
| Incandescent Lamps (continued) | | | | | | | | | | | | | | | | | |
| 25 Watts (continued) | | | | | | | | | | | | | | | | | |
| PAR46 | Scrw Term | 25 | 14562 | 25PAR46 | 6 | 12 | C-6 | 3.75 | | 1000 | | 140 | | 55000 | | | Pin Spot, Filament Shield |
| R14 | Inter | 25 | 18230 | 25R14N | 130 | 120 | CC-2V | 2.56 | | 1500 | | 180 | | | \$3.01 | 5e | Reflector-Light, Inside Frost |
| | | 25 | 39156 | 25R14N | 120 | 120 | CC-2V | 2.56 | | 1500 | | 180 | | | \$3.01 | 5e | Reflector-Light, Inside Frost |
| R14 | SC Bay B15 | 25 | 33405 | 25R14SC/SP | 12 | 120 | CC-8 | 2.62 | | 2000 | | 200 | | | \$3.01 | 5e | Reflector Spot, Light Inside Frost |
| S11 | SC Bay BA15s | 25 | 14575 | 25S11/4SC | 10 | 120 | CC-6 | 2.37 | 1.25 | 1000 | | 360 | | | \$3.01 | | Clear-Railway, Signal Light |
| T6.5 | DC Bay | 25 | 14676 | 25T61/2DC | 120 | 60 | C-8 | 5.56 | | 1000 | | 220 | | | \$3.01 | | Clear-Appliance, Scale Illuminator |
| | | 25 | 14678 | 25T61/2/DC | 130 | 60 | C-8 | 5.56 | | 1000 | | 244 | | | \$3.01 | | Clear-Appliance, Scale Illuminator |
| | | 25 | 14685 | 25T61/2DC/F | 130 | 60 | C-8 | 5.56 | | 1000 | | 240 | | | \$3.01 | | Frost-Appliance, Scale Illuminator |
| T6.5 | Inter | 25 | 14639 | 25T61/2 | 120 | 60 | C-8 | 5.50 | | 1000 | | 220 | | | \$3.01 | | Clear-Showcase |
| | | 25 | 14641 | 25T61/2 | 130 | 60 | C-8 | 5.50 | | 1000 | | 244 | | | \$3.01 | | Clear-Showcase |
| | | 25 | 44727 | 25T61/2 CD1-6PK | 120 | 20 | C-8 | 5.50 | | 1000 | | 220 | | | \$3.01 | | Clear-Showcase |
| | | 25 | 14668 | 25T61/2/F | 130 | 60 | C-8 | 5.50 | | 1000 | | 240 | | | \$3.01 | | Frost-Showcase |
| T7 | DC Bay | 25 | 14741 | 25T7DC | 120 | 60 | C-7A | 2.25 | 1.31 | 1000 | | 195 | | | \$3.01 | | Clear-Appliance |
| T7 | Inter | 25 | 10692 | 25T7N-CD 6PK | 120 | 240 | C-7A | 2.25 | 1.56 | 1000 | | 195 | | | \$3.01 | | Clear-Appliance |
| | | 25 | 14791 | 25T7N | 120 | 60 | C-7A | 2.25 | 1.56 | 1000 | | 195 | | | \$3.01 | | Clear-Appliance |
| T10 | Med | 25 | 45144 | 25T10 CD1-5PK | 130 | 25 | C-8 | 5.60 | | 1000 | | 250 | | | \$3.01 | 5e, 9d | Clear-Display Light |
| | | 25 | 14880 | 25T10 24PK | 120 | 192 | C-8 | 5.60 | | 1000 | | 250 | | | \$3.01 | 5e, 9d | Clear-Display Light |
| | | 25 | 45513 | 25T10/F CD1-5PK | 130 | 25 | C-8 | 5.60 | | 1000 | | 250 | | | \$3.01 | 5e, 9d | Frost-Display Light |
| 27 Watts | | | | | | | | | | | | | | | | | |
| R20 | Med | 27 | 47681 | 27R20/FL/LL 6PK | 120 | 30 | CC-6 | 3.93 | | 2500 | 2.3 | 140 | 2500 | | \$3.25 | 5b, 9k | Long Life Reflector-Indoor Spotlight, Reduced Wattage |
| 30 Watts | | | | | | | | | | | | | | | | | |
| R20 | Med | 30 | 14891 | 30R20/1-6PK | 120 | 30 | CC-6 | 3.93 | | 2000 | 1.8 | 180 | 2500 | | \$3.61 | 5b, 9k | Indoor Reflector |
| | | 30 | 46848 | 30R20/1 | 130 | 30 | C-9 | 3.93 | | 2000 | | 180 | | | \$3.61 | 5b, 9k | Indoor Reflector-Light I.F |
| | | 30 | 46849 | 30R20/6 | 130 | 30 | C-9 | 3.93 | | 6000 | | 145 | | | \$3.61 | 9d | Reflector-Light I.F-Flashing Message Sign |
| S11 | DC Bay | 30 | 17948 | 30S11/DC/RS | 75 | 30 | C-9 | 2.37 | 1.54 | 2000 | | 275 | | | \$3.61 | | Clear-Train |
| 30/70/100 Watts | | | | | | | | | | | | | | | | | |
| A21 | Med | 30/70/100 | 97493 | 30/100-1PK | 120 | 12 | C-2R/CC-8 | 5.25 | 3.88 | 1200 | 1.1 | 305/995/1300 | 2800 | | \$3.61/\$8.43/\$12.05 | 2b, 5c, 9c, 9j | Soft-White, 3-Way |
| | | 30/70/100 | 97784 | 30/100RVL- PQ1/12 | 120 | 12 | C-2R | 5.25 | 3.88 | 1200 | 1.1 | 220/740/960 | 2850 | | \$3.61/\$8.43/\$12.05 | 2b, 9c, 9j | Reveal® Soft-White, 3-Way |
| 40 Watts | | | | | | | | | | | | | | | | | |
| A15 | Med | 40 | 15199 | 40A15 | 120 | 120 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 415 | 2600 | | \$4.82 | | Clear-Appliance and Oven Service, Vibration Resistant |
| | | 40 | 15206 | 40A15 CARD 12PK | 120 | 60 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 415 | 2600 | | \$4.82 | | Clear-Appliance and Oven Service, Vibration Resistant |
| | | 40 | 21188 | 40A15 CD/2 | 120 | 60 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 415 | 2600 | | \$4.82 | | Clear-Appliance and Oven Service, Vibration Resistant |
| | | 40 | 27495 | 40A15/F/CD | 120 | 60 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 355 | 2600 | | \$4.82 | | Frosted-Appliance and Oven Service, Vibration Resistant |
| | | 40 | 27451 | 40A15/F 120PK | 120 | 120 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 355 | 2600 | | \$4.82 | | Frost |
| | | 40 | 44409 | 40A15/CF CD2 6PK | 120 | 30 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 415 | 2600 | | \$4.82 | | Clear-Ceiling Fan, Vibration Resistant |
| | | 40 | 44410 | 40A15W/CFCD2 6PK | 120 | 30 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 355 | 2600 | | \$4.82 | | White-Ceiling Fan, Vibration Resistant |
| | | 40 | 48696 | 40A15/CF/RVL CD2 | 120 | 30 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 320 | 2600 | | \$4.82 | | Reveal® Clear, Ceiling Fan, Vibration Resistant |

* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh

Incandescent Lamps

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information | |
|---------------------------------------|-----------|-------|------------|-------------------|---------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|-------|--------------------------|-----------------------------|--|--|
| Incandescent Lamps (continued) | | | | | | | | | | | | | | | | | | |
| 40 Watts (continued) | | | | | | | | | | | | | | | | | | |
| A15 | Med | 40 | 48697 | 40A15WCF/RVL CD2 | 120 | 30 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 260 | | | \$4.82 | | Reveal® Soft-White, Ceiling Fan, Vibration Resistant | |
| | | 40 | 31084 | 40A15/RVL-PQ1/6 | 120 | 30 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 320 | | | \$4.82 | | Reveal® Clear | |
| | | 40 | 48706 | 40A15/RVL CD2 | 120 | 30 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 320 | | | \$4.82 | | Reveal® Clear, Appliance | |
| | | 40 | 46887 | 40A15/CF/STGPQ2/6 | 120 | 30 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 405 | 2600 | | \$4.82 | 2a, 2b, 5e, 9l | Clear, Saf-T-Gard®, Ceiling Fan | |
| A15 | Cond | 40 | 71393 | 40A15/CA/C/CF-CD2 | 120 | 6 | C-7A | 3.50 | 2.37 | 1500 | 1.4 | 305 | 2500 | | \$4.82 | | Clear-Ceiling Fan, Vibration Resistant | |
| | | 40 | 71394 | 40A15/CA/W/CF-CD2 | 120 | 6 | C-7A | 3.50 | 2.37 | 1500 | 1.4 | 230 | 2500 | | \$4.82 | | White-Ceiling Fan, Vibration Resistant | |
| R14 | Inter | 40 | 25777 | 40R14/N/CD | 120 | 30 | CC-2V | 2.68 | | 1500 | 1.4 | 280 | | | \$4.82 | 2a, 5e | Indoor Reflector | |
| R14 | Med | 40 | 25776 | 40R14/CD | 120 | 30 | CC-2V | 2.18 | | 1500 | 1.4 | 280 | | | \$4.82 | 2a, 5e | Indoor Reflector | |
| R16 | Med | 40 | 25781 | 40R16/CD | | 30 | CC-6 | | | 1500 | 1.4 | 225 | 2500 | | \$4.82 | 2a, 5e | Indoor Reflector | |
| S11 | Inter | 40 | 15734 | 40S11N/1/F | 120 | 120 | C-9 | 2.31 | 1.62 | 500 | | 440 | | | \$4.82 | 5b | Frost | |
| | | 40 | 35156 | 40S11N/1 CARD | 120 | 240 | C-9 | 2.31 | 1.62 | 500 | | 440 | | | \$4.82 | 5b | Clear-12-Card Pack | |
| T6.5 | Inter | 40 | 15740 | 40T6 1/2/2 | 120 | 60 | C-8 | 5.50 | | 750 | | 420 | | | \$4.82 | | Clear-Refrigerator | |
| | | 40 | 44422 | 40T6 1/2/2CD1-6PK | 120 | 30 | C-8 | 5.50 | | 750 | | 380 | | | \$4.82 | | Clear-Appliance | |
| | | 40 | 15742 | 40T6 1/2/2F | 120 | 60 | C-8 | 5.50 | | 750 | | 380 | | | \$4.82 | | Frost-Appliance | |
| T10 | Med | 40 | 15852 | 40T10 | 120 | 120 | C-8 | 5.60 | | 1000 | 0.9 | 420 | 2500 | | \$4.82 | 5e, 9d | Clear-Display Light | |
| | | 40 | 15892 | 40T10/F | 120 | 120 | C-8 | 5.60 | | 1000 | 0.9 | 415 | 2500 | | \$4.82 | 5e, 9d | Frost-Display Light | |
| | | 40 | 45145 | 40T10/F CD1-5PK | 120 | 25 | C-8 | 5.60 | | 1000 | 0.9 | 415 | 2500 | | \$4.82 | 5e, 9d | Frost-Display Light | |
| | | 40 | 45514 | 40T10/CL CD1-5PK | 120 | 25 | C-8 | 5.60 | | 1000 | 0.9 | 420 | 2500 | | \$4.82 | 5e, 9d | Clear-Display Light | |
| | | 40 | 48707 | 40T10/RVL CD1 | 120 | 25 | C-8 | 5.60 | | 1000 | 0.9 | 290 | 2550 | | \$4.82 | 5e, 9d | Reveal® - Clear-Display Light | |
| | | 40 | 48709 | 40T10/F/RVL CD1 | 120 | 25 | C-8 | 5.60 | | 1000 | 0.9 | 290 | 2550 | | \$4.82 | 5e, 9d | Reveal® - Frost-Display Light | |
| 45 Watts | | | | | | | | | | | | | | | | | | |
| BR30 | Med | 45 | 20330 | 45R/FL/MI-1 6PK | 120 | 30 | CC-6 | 5.37 | | 2000 | 1.8 | 425 | 2600 | | \$5.42 | 2a, 5e, 9k | Indoor Reflector | |
| | | 45 | 26804 | 45R30/FL/LL 6PK | 120 | 30 | CC-6 | 5.37 | | 2500 | 2.3 | 400 | 2600 | | \$5.42 | 2a, 2b, 5e, 9k | Long Life Indoor Reflector | |
| R20 | Med | 45 | 14878 | 45R20M/1-6PK | 120 | 30 | CC-6 | 3.31 | | 2000 | 1.8 | 310 | 2600 | | \$5.42 | 2a, 5e, 9k | Indoor Reflector | |
| | | 45 | 18279 | 45R20/TWIN | 120 | 30 | CC-6 | 3.31 | | 2000 | 1.8 | 310 | 2600 | | \$5.42 | 2a, 5e, 9k | Indoor Reflector | |
| | | 45 | 47682 | 45R20/FL/LL 6PK | 120 | 30 | CC-6 | 3.31 | | 2500 | 2.3 | 310 | 2500 | | \$5.42 | 2a, 5e, 9k | Long Life Indoor Reflector | |
| | | 45 | 73026 | 45R20/YR | 120 | 6 | CC-6 | 3.31 | | 1500 | 1.4 | 350 | 2500 | | \$5.42 | 2a, 5e, 9k | Indoor Reflector | |
| | | 45 | 73025 | 45R20/YR-PK2/3 | 120 | 3 | CC-6 | 3.31 | | 1500 | 1.4 | 350 | 2500 | | \$5.42 | 2a, 5e, 9k | Indoor Reflector | |
| | | 45/40 | 73029 | 45R20/130V | 130/120 | 30 | CC-6 | 3.31 | | 2000/4000 | 1.8/3.6 | 300/225 | 2500 | | \$5.42 | 2a, 5e, 9k | Indoor Reflector | |
| | | 45 | 73439 | 45R20/RVL PK1/6 | 120 | 30 | CC-6 | 3.31 | | 2000 | 1.8 | 230 | 2550 | | \$5.42 | 2a, 5e, 9k | Indoor Reflector | |
| 50 Watts | | | | | | | | | | | | | | | | | | |
| A19 | Med | 50 | 16201 | 50A19/RS/SH | 75 | 120 | C-9 | 3.87 | 2.50 | 1000 | | 500 | | | | 2a, 5a | Train, Rough Service Short | |
| PAR36 | Scrw Term | 50 | 11468 | 50PAR36/WFL/4 | 12 | 12 | C-6 | 2.75 | | 4000 | | 300 | | 720 | | | Wide Flood, Filament Shield | |
| | | 50 | 12892 | 50PAR36/VNSP | 12 | 12 | C-6 | 2.75 | | 2000 | | 330 | | 19000 | | | Very Narrow Spot, Filament Shield | |
| | | 50 | 16540 | 50PAR36/NSP | 12 | 12 | C-6 | 2.75 | | 2000 | | 330 | | 11000 | | | Narrow Spot, Filament Shield | |
| | | 50 | 16541 | 50PAR36/WFL | 12 | 12 | C-6 | 2.75 | | 2000 | | 330 | | 900 | | | Wide Flood, Filament Shield | |
| | | 50 | 16542 | 50PAR36/VWFL | 12 | 12 | C-6 | 2.75 | | 2000 | | 330 | | 600 | | | Very Wide Flood, Filament Shield | |
| R20 | Med | 50 | 14888 | 50R20/PL/1-6PK | 120 | 30 | CC-6 | 3.93 | | 2000 | | | | | \$6.02 | 2a, 5e, 9k | Reflector Plant Light | |
| | | 50 | 22752 | 50R20/BLB 6PK | 120 | 6 | CC-6 | 3.93 | | 1000 | | | | | \$6.02 | 2a, 2f, 5b, 7a, 7c, 9k | Blacklight Reflector | |
| ER30 | Med | 50 | 44429 | 50ER30 | 120 | 24 | CC-6 | 6.06 | | 2000 | | | | | \$6.02 | | Elliptical Reflector | |

* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information | |
|---------------------------------------|-----------|------------|------------|-------------------|---------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|------|--------------------------------|-----------------------------|---|--|
| Incandescent Lamps (continued) | | | | | | | | | | | | | | | | | | |
| 50/100/150 Watts | | | | | | | | | | | | | | | | | | |
| A21 | Med | 50/100/150 | 97494 | 50/150-1PK | 120 | 12 | CC-8 | 5.25 | 3.87 | 1200 | 1.1 | 615/1540/2155 | 2800 | | \$6.02/ \$12.05/ \$18.07 | 2b, 9j | Soft-White, 3-Way | |
| | | 50/100/150 | 97763 | 50/150-2PK | 120 | 6 | CC-8 | 5.25 | 3.87 | 1200 | 1.1 | 615/1540/2155 | 2800 | | \$6.02/ \$12.05/ \$18.07 | 2b, 9j | Soft-White, 3-Way | |
| | | 50/100/150 | 97785 | 50/150RVL-1/12PQ | 120 | 12 | CC-8 | 5.25 | 3.87 | 1200 | 1.1 | 450/1150/1600 | 2850 | | \$6.02/ \$12.05/ \$18.07 | 2b, 9j | Reveal®, Soft-White 3-Way | |
| | | 50/100/150 | 97469 | 50/150/RVL-2PK | 120 | 6 | CC-8 | 5.25 | 3.87 | 1200 | 1.1 | 450/1150/1600 | 2850 | | \$6.02/ \$12.05/ \$18.07 | 2b, 9j | Reveal®, Soft-White 3-Way | |
| | | 50/100/150 | 97781 | 50/150/LL-1/12PK | 120 | 12 | CC-8 | 5.25 | 3.87 | 1920 | 1.8 | 560/1400/1960 | 2800 | | \$6.02/ \$12.05/ \$18.07 | 2b, 9j | Long Life, Soft-White 3-Way | |
| 50/200/250 Watts | | | | | | | | | | | | | | | | | | |
| A21 | Med | 50/200/250 | 97482 | 50/250/1-1PK | 120 | 12 | CC-8/ CC-25 | 5.25 | 3.87 | 1200 | 1.1 | 590/3335/3925 | 2800 | | \$6.02/ \$24.09/ \$30.11 | 2b, 9c, 9j | Soft-White, 3-Way | |
| 60 Watts | | | | | | | | | | | | | | | | | | |
| A19 | Med | 60/53 | 72528 | 60A/S/130-TP2/12 | 130/120 | 24 | C-7A | | | 3000 | 2.7 | 625/475 | | | | | Rough-Service | |
| | | 60/53 | 72529 | 60A/RS130-PK2/12 | 130/120 | 24 | C-7A | 4.13 | 2.91 | 2000/5400 | | 625/475 | | | \$7.23/\$6.38 | 2a, 5e | Rough Service | |
| | | 60/53 | 72549 | 60A/RS/STG-T2/12 | 130/120 | 24 | C-7A | 4.13 | 2.91 | 2000/5400 | | 500/380 | | | \$7.23/\$6.38 | 2a, 2b, 5e, 9l | Rough Service Saf-T-Gard® | |
| | | 60 | 97483 | 60A/SPK-2PK | 120 | 24 | CC-6 | 4.43 | 3.12 | 1000 | | 675 | | | \$7.23 | 2b | Soft Pink | |
| | | 60 | 97495 | 60A/Y-2PK | 120 | 24 | CC-6 | 4.43 | 3.12 | 1000 | | 550 | | | \$7.23 | 2b | Yellow-Bug Light | |
| | | 60 | 25905 | 60A/BLB 6PK | 120 | 30 | C-9 | 4.43 | | 1000 | | | | | \$7.23 | 2a, 2f, 5b, 7a, 7c, 9k | Blacklight | |
| | | 60 | 41624 | 60A/PL 6PK | 120 | 30 | CC-6 | 4.43 | 3.12 | 1000 | | 630 | | | \$7.23 | 5e | Plant | |
| A15 | Med | 60 | 44407 | 60A15/CF CD2 6PK | 120 | 30 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 650 | 2700 | | \$7.23 | | Clear-Ceiling Fan, Vibration Resistant | |
| | | 60 | 14029 | 60A15/W/CF-CD2 | 120 | 60 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 650 | 2700 | | \$7.23 | | White-Ceiling Fan, Vibration Resistant | |
| | | 60 | 46888 | 60A15CF/STGPQ2/6 | 120 | 30 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 635 | 2700 | | \$7.23 | 2a, 2b, 5e, 9l | Ceiling Fan Saf-T-Gard® | |
| A15 | Cand | 60 | 71395 | 60A15/CA/C/CF-CD2 | 120 | 6 | C-7A | 3.50 | 2.37 | 1500 | 1.4 | 635 | 2500 | | \$7.23 | | Clear-Ceiling Fan, Vibration Resistant | |
| | | 60 | 71396 | 60A15/CA/W/CF-CD2 | 120 | 6 | C-7A | 3.50 | 2.37 | 1500 | 1.4 | 440 | 2500 | | \$7.23 | | White-Ceiling Fan, Vibration Resistant | |
| | | 60 | 48698 | 60A15/CF/RVL CD2 | 120 | 30 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 500 | | | \$7.23 | | Reveal® - Clear, Ceiling Fan, Vibration Resistant | |
| R46 | Scrw Term | 60 | 17212 | 60PAR/2/R | 38 | 12 | CC-2V | 3.75 | | 800 | | | | | | | Red Lens - Train Warning | |
| 65 Watts | | | | | | | | | | | | | | | | | | |
| BR30 | Med | 65 | 18011 | 65R/FL/MI-TWIN | 120 | 6 | CC-6 | 5.37 | | 2000 | 1.8 | 700 | 2600 | | \$7.83 | 2a, 5e, 9k | Indoor Reflector, Twin Pink | |
| | | 65 | 20331 | 65R30/FL/MI-6PK | 120 | 30 | CC-6 | 5.37 | | 2000 | 1.8 | 700 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Indoor Reflector, Flood | |
| | | 65 | 20332 | 65R30/SP/MI-6PK | 120 | 30 | CC-6 | 5.37 | | 2000 | 1.8 | 700 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Indoor Reflector, Spot | |
| | | 65 | 22714 | 65R30FL/COMM12PK | 120 | 12 | CC-6 | 5.37 | | 2000 | 1.8 | 700 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Indoor Reflector, 12 Pack | |
| | | 65 | 26805 | 65R30/FL/LL 6PK | 120 | 30 | CC-6 | 5.37 | | 2500 | 2.3 | 670 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Long Life, Indoor Reflector, Flood | |
| | | 65 | 48917 | 65R30/FL/LLPQ2/3 | 120 | 15 | CC-6 | 5.37 | | 2500 | 2.3 | 670 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Long Life, Indoor Reflector, Flood | |
| | | 65 | 26806 | 65R30/SP/LL 6PK | 120 | 30 | CC-6 | 5.37 | | 2500 | 2.3 | 670 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Long Life, Indoor Reflector, Spot | |
| | | 65 | 11684 | 65R30FLRVL-PK2/3 | 120 | 15 | CC-6 | 5.37 | | 2000 | 1.8 | 510 | 2650 | | \$7.83 | 2a, 2b, 5e, 9k | Reveal® Floodlight | |
| | | 65 | 48692 | 65R/FL/RVL PQ1/6 | 120 | 30 | CC-6 | 5.37 | | 2000 | 1.8 | 510 | 2650 | | \$7.83 | 2a, 2b, 5e, 9k | Reveal® Floodlight | |

* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh

Incandescent Lamps

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information | |
|---------------------------------------|------------|------------|------------|-------------------|---------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|------|--------------------------------|-----------------------------|--------------------------------------|--------------------------|
| Incandescent Lamps (continued) | | | | | | | | | | | | | | | | | | |
| 65 Watts (continued) | | | | | | | | | | | | | | | | | | |
| BR30 | Med | 65 | 73179 | 65R30/RVL/TW-3PK | 120 | 3 | CC-6 | 5.37 | | 2000 | 1.8 | 530 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Reveal® Floodlight | |
| | | 65 | 47723 | 65R30/STG/PQ1/6 | 120 | 30 | CC-6 | 5.37 | | 2000 | 1.8 | 650 | 2700 | | \$7.83 | 2a, 2b, 5e, 9a, 9k, 9l, 9m | Indoor Reflector, Flood, Saf-T-Gard® | |
| | | 65 | 20996 | 65R30/PL-1 6PK | 120 | 30 | CC-6 | 5.37 | | 2000 | | | | | \$7.83 | 2a, 2b, 5e, 9k | Reflector, Plant Light | |
| | | 65 | 46855 | 65R30/FL | 130 | 30 | CC-6 | 5.37 | | 2000/5200 | 1.8 | 670/510 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Watt-Miser® Reflector | |
| | | 65 | 46856 | 65R30/SP | 130 | 30 | CC-6 | 5.37 | | 2000/5200 | 1.8 | 670/510 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Watt-Miser® Reflector | |
| BR40 | Med | 65 | 14016 | 65R40/FL/MI-6PK | 120 | 30 | CC-6 | 6.56 | | 2000 | 1.8 | 580 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Indoor Reflector, Flood | |
| | | 65 | 47683 | 65R40/FL/LL | 120 | 30 | CC-6 | 6.56 | | 2500 | 2.3 | 480 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Long Life, Indoor Reflector, Flood | |
| | | 65 | 46861 | 65R40/FL | 130 | 30 | CC-6 | 6.56 | | 2000 | 1.8 | 475 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Watt-Miser® Reflector-LF | |
| BR40 | Med | 65 | 87904 | 65R40FL/RVL-TP6 | 120 | 30 | CC-6 | 6.56 | | 2000 | 1.8 | 470 | 2650 | | \$7.83 | 2a, 2b, 5e, 9k | Reveal® Reflector Flood | |
| PAR38 | Med Sid Pr | 65 | 80314 | 75PAR/3FL/65WWM | 120 | 12 | CC-6 | 4.30 | | 2000 | 1.8 | 675 | 2675 | 1750 | \$7.83 | 1a, 2a, 2b | Compact Flood, Reduced Wattage | |
| 70 Watts | | | | | | | | | | | | | | | | | | |
| A21 | Med | 70/170/240 | 15846 | 70/240A/RL/SW6PK | 120 | 30 | CC-8/CC-8 | 5.25 | 3.62 | 1000 | 0.9 | 800/2800/3600 | 2850 | | \$8.43/ \$20.48/ \$28.91 | | 3-Way Reader Light | |
| 75 Watts | | | | | | | | | | | | | | | | | | |
| A19 | Med | 75/67 | 72530 | 75A/RS130-PK6 | 130/120 | 6 | C-7A | 4.13 | 2.91 | 2000/5400 | | 740/560 | | | \$9.03/\$8.07 | 2a, 5e | Rough Service | |
| A21 | Med | 75 | 18274 | 75A/RS 12PK-5 | 120 | 60 | C-7A | 4.13 | 2.91 | 1000 | 0.9 | 750 | | | \$9.03 | 2a | Rough-Service | |
| | | 75 | 46895 | 75A/RS/STG PQ1/6 | 120 | 30 | C-7A | 4.13 | 3.66 | 1000 | 0.9 | 715 | | | \$9.03 | 2a, 2b, 5e, 9l | Rough Service, Saf-T-Gard® | |
| | | 75/66 | 17527 | 75A/RS 60PK | 130/120 | 60 | C-7A | 4.13 | 2.91 | 1000/2850 | 0.9/2.6 | 740/560 | | | \$9.03/\$7.95 | 2a, 2b, 5e, 9l | Rough-Service | |
| | | 75/67 | 72550 | 75A/RS/STG-TP6 | 130/120 | 6 | C-7A | 4.13 | 2.91 | 2000/5400 | | 740/560 | | | \$9.03/\$8.07 | 2a | Rough Service, Saf-T-Gard® | |
| R30 | Med | 75 | 22748 | 75R30/BLB 6PK | 120 | 6 | C-9 | 5.37 | | 1000 | | | | | \$9.03 | 2a, 2f, 5b, 7a, 7c, 9k | Reflector Blacklight | |
| PAR38 | Med Sid Pr | 75 | 80319 | 75PAR/3SP/MINE | 120 | 12 | CC-6 | 4.30 | | 2000 | | 765 | 2725 | | | 1a, 2a, 2b, 9n | Mine Reflector | |
| | | 75 | 80316 | 75PAR/3FL/MINE | 120 | 12 | CC-6 | 4.30 | | 2000 | | 765 | 2725 | 1750 | | 1a, 2a, 2b, 9n | Mine, Flood | |
| PAR46 | 3 Prong | 75 | 36473 | 75PAR46/TS | 120 | 12 | CC-6 | 3.87 | | 6000 | | 700 | | | | | Traffic Signal | |
| 85 Watts | | | | | | | | | | | | | | | | | | |
| PAR38 | Med Skirt | 85 | 20945 | 85PAR/FL/BG 6PK | 120 | 6 | CC-6 | 5.31 | | 2000 | | | | | | | 1a, 2a, 2b | Yellow-Bug Light, BB |
| | | 85 | 13465 | 100PAR/B/85WM6PK | 120 | 6 | CC-6 | 5.31 | | 2000 | | | | | | | 1a, 2a, 2b | Powder Coated-Blue, BB |
| | | 85 | 13472 | 100PAR/R/85WM6PK | 120 | 6 | CC-6 | 5.31 | | 2000 | | | | | | | 1a, 2a, 2b | Powder Coated-Red, BB |
| | | 85 | 13473 | 100PAR/Y/85WM6PK | 120 | 6 | CC-6 | 5.31 | | 2000 | | | | | | | 1a, 2a, 2b | Powder Coated-Yellow, BB |
| | | 85 | 13474 | 100PAR/G/85WM6PK | 120 | 6 | CC-6 | 5.31 | | 2000 | | | | | | | 1a, 2a, 2b | Powder Coated-Green, BB |
| 90 Watts | | | | | | | | | | | | | | | | | | |
| A19 | Med | 90 | 61435 | 90A/Y-2PK | 120 | 24 | CC-8 | 4.43 | 3.12 | 1000 | | | | | \$10.84 | 2b | Yellow-Bug Light | |
| 100 Watts | | | | | | | | | | | | | | | | | | |
| A19 | Med | 100 | 97484 | 100A/SPK-2PK | 120 | 24 | CC-8 | 4.43 | 3.12 | 1000 | | 1330 | | | \$12.05 | 2b | Soft Pink | |
| | | 100/89 | 72527 | 100A/RS130-PK12 | 130/120 | 12 | C-7A | 4.13 | 2.91 | 2000/5400 | | 1070/815 | | | \$12.05/ \$10.72 | 2a, 5e | Rough Service | |
| | | 100/89 | 72546 | 100A/RS/STG-TP6 | 130/120 | 6 | C-7A | 4.13 | 2.91 | 2000/5400 | | 1070/815 | | | \$12.05/ \$10.72 | 2a, 2b, 5e, 9l | Rough Service, Saf-T-Gard® | |
| A21 | Med | 100/89 | 17522 | 100A/RS 60PK | 130/120 | 60 | C-7A | 4.13 | 2.91 | 2000/5400 | | 1070/815 | | | \$12.05/ \$10.72 | 2a, 5e | Rough-Service | |
| | | 100 | 18275 | 100A/RS 12PK-5 | 120 | 60 | C-7A | 4.13 | 2.91 | 1000 | 0.9 | 1230 | | | \$12.05 | 2a | Rough-Service | |
| | | 100 | 47261 | 100A/RS/STG/PQ1/6 | 120 | 30 | C-7A | 4.13 | 3.66 | 1000 | 0.9 | 1160 | | | \$12.05 | 2a, 2b, 5e, 9l | Rough Service, Saf-T-Gard® | |

* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information | |
|---------------------------------------|------------|-------------|------------|-------------------|---------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|-------|---------------------------------|-----------------------------|--------------------------------------|--|
| Incandescent Lamps (continued) | | | | | | | | | | | | | | | | | | |
| 100/200/300 Watts | | | | | | | | | | | | | | | | | | |
| PS25 | Mog | 100/200/300 | 41459 | 100/300 6PK | 120 | 30 | CC-6 | 6.68 | 4.43 | 1200 | 1.1 | 1250/2650/3900 | 2800 | | \$12.05/ \$24.10/ \$36.15 | 2b, 9c, 9j | Soft-White, 3-Way | |
| 110 Watts | | | | | | | | | | | | | | | | | | |
| R30 | Med | 110 | 46859 | 110R30/FL/RS/1 | 120 | 30 | C-11 | 5.38 | | 2000 | | 900 | | | \$13.25 | 2a, 2b, 5e, 9k | Reflector Flood. I.F. Rough Service | |
| 120 Watts | | | | | | | | | | | | | | | | | | |
| BR40 | Med | 120 | 21000 | 120R40/PL-1 6PK | 120 | | CC-6 | 6.56 | | 2000 | | | | | \$14.45 | 2a, 2b, 5e, 9k | Reflector Plant Light, BB | |
| | | 120 | 47725 | 120R40FL/STG PQ6 | 130 | 30 | CC-11 | 6.56 | | 2000/5200 | 1.8 | 1025/780 | 2700/2600 | 1200 | \$14.45 | 2a, 2b, 5e, 9a, 9k, 9l, 9m | Reflector, Saf-T-Guard® | |
| PAR38 | Med Sid Pr | 120 | 80313 | 150PAR/3FL/120WM | 120 | 12 | CC-6 | 4.30 | | 2000 | | 1370 | | 3600 | | 1a, 2a, 2b, 9n | Watt-Miser®, Flood, Reduced Wattage | |
| | | 120 | 80322 | 150PAR/3SP/120WM | 120 | 12 | CC-6 | 4.30 | | 2000 | | 1370 | | 9200 | | 1a, 2a, 2b, 9n | Watt-Miser®, Spot, Reduced Wattage | |
| 125 Watts | | | | | | | | | | | | | | | | | | |
| R40 | Med | 125 | 48069 | 125R40/1 6PK | 120 | 30 | C-9 | | | 5000 | 4.6 | | | | | 2a, 2b, 3b, 5e, 6a | Reflector-Warm Up Infrared Heat Lamp | |
| 150 Watts | | | | | | | | | | | | | | | | | | |
| A21 | Med | 150 | 16068 | 150A/CL 12PK | 120 | 12 | CC-8 | 5.37 | 4.06 | 750 | 0.7 | 2710 | 2900 | | \$18.07 | | Clear | |
| | | 150 | 10429 | 150A/W 12PK | 120 | 12 | CC-8 | 5.37 | 4.06 | 750 | 0.7 | 2680 | 2900 | | \$18.07 | | Soft-White | |
| | | 150 | 16703 | 150A/RVL | 120 | 30 | CC-8 | 5.37 | 4.06 | 750 | 0.7 | 2100 | 2950 | | \$18.07 | | Reveal® | |
| | | 150/133 | 72532 | 150A21/RS-PK6 | 130/120 | 30 | C-17 | 5.37 | 4.06 | 1000/2600 | | 2065/1580 | | | \$18.07/ \$16.02 | 2a, 5e | Rough Service | |
| PS25 | Med | 150/133 | 72547 | 150PS25/RS/STG | 130/120 | 60 | C-17 | 6.93 | 5.18 | 1000/2600 | | 2160/1650 | | | \$18.07/ \$16.02 | 2a, 2b, 5e, 9l | Rough Service Saf-T-Guard® | |
| PAR38 | Med Sid Pr | 150 | 80321 | 150PAR/3SP/MINE | 120 | 12 | CC-6 | 4.30 | | 2000 | | 1740 | | 12000 | | 1a, 2a, 2b, 9n | Mine, Spot | |
| | | 150 | 80315 | 150PAR/3FL/MINE | 120 | 12 | CC-6 | 4.30 | | 2000 | | 1740 | 2775 | 3100 | | 1a, 2a, 2b, 9n | Mine, Flood | |
| | | 150 | 80317 | 150PAR/3FL/MINE | 130 | 12 | CC-6 | 4.30 | | 2000 | | 1740 | | 3100 | | 1a, 2a, 2b, 9n | Mine, Flood | |
| PAR38 | Med Skirt | 150 | 19465 | 150PAR/FL/B | 120 | 12 | CC-6 | 5.31 | | 2000 | | | | | | 1a, 2a, 2b | Flood. Dichro Blue | |
| | | 150 | 19467 | 150PAR/FL/G | 120 | 12 | CC-6 | 5.31 | | 2000 | | | | | | 1a, 2a, 2b | Flood. Dichro Green | |
| | | 150 | 19468 | 150PAR/FL/R | 120 | 12 | CC-6 | 5.31 | | 2000 | | | | | | 1a, 2a, 2b | Flood. Dichro Red | |
| | | 150 | 26370 | 150PAR/FL/COVG | 120 | 12 | CC-6 | 5.31 | | 2000 | | 1700 | | | | 1a, 2a, 2b, 9L, 9m | CovRguard® Flood, BB, Coated | |
| | | 150 | 26371 | 150PAR/SP/COVG | 120 | 12 | CC-6 | 5.31 | | 2000 | | 1700 | | | | 1a, 2a, 2b, 9L, 9m | CovRguard® Spot BB, Coated | |
| | | 150 | 48037 | 150PAR/FL/STG PQ6 | 120 | 6 | CC-6 | 5.31 | | 2000 | | 1700 | | | | 2a, 2b, 5e, 9a, 9k, 9l, 9m | Saf-T-Gard® Flood, BB, Coated | |
| PAR46 | 3 Prong | 150 | 35327 | 150PAR46/TS | 115 | 12 | CC-6 | 4 | | 6000 | | 1750 | | | | | Traffic Signal-Burn Horizontal | |
| | | 150 | 19512 | 150PAR46/1 | 32 | 12 | CC-8 | 3.75 | | 800 | | 1950 | | 10000 | | | Mine Locomotive Headlight | |
| | Med Sid Pr | 150 | 19517 | 150PAR46 | 125 | 12 | C-13 | 3.75 | | 1000 | | 1250 | | | | | Mine Locomotive Headlight | |
| | | 150 | 41968 | 150PAR46/3MFL | 125 | 12 | CC-13 | 4 | | 2000 | | 1500 | 2750 | 8000 | | 1a, 2a, 5b, 5c, 9n | Medium Flood | |
| 175 Watts | | | | | | | | | | | | | | | | | | |
| PAR38 | Med Skirt | 175 | 13643 | 175PAR38/HEAT | 120 | 12 | CC-6 | 5.31 | 4.31 | 5000 | | 3100 | | | | 1a, 2a, 2b, 3b | Infrared-Clear | |

* Based on 3 hours per day use.
** Based on 3 hours per day use, \$0.11 per Kwh

Incandescent Lamps

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information | |
|---------------------------------------|------------|---------|------------|------------------|---------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|--------|--------------------------|-----------------------------|---|--------------|
| Incandescent Lamps (continued) | | | | | | | | | | | | | | | | | | |
| 200 Watts | | | | | | | | | | | | | | | | | | |
| A21 | Med | 200 | 16069 | 200A/CL-1 12PK | 120 | 12 | CC-8 | 5.37 | 4.06 | 750 | 0.7 | 3780 | 2900 | | \$24.09 | | Crystal | |
| | | 200 | 11585 | 200A/W-1 12PK | 120 | 12 | CC-8 | 5.37 | 4.06 | 750 | 0.7 | 3405 | 2900 | | \$24.09 | | Soft-White | |
| | | 200 | 44534 | 200A/W-PK6 | 120.1 | | CC-8 | 5.37 | 4.06 | 750 | 0.7 | 3405 | 2900 | | \$24.09 | | Soft-White | |
| | | 200 | 89371 | 200A/RVL-TP1/6 | 120 | 30 | CC-8 | 5.37 | 4.06 | 750 | 0.7 | 2395 | 2950 | | \$24.09 | | Reveal® Soft-White | |
| | | 200/177 | 25936 | 200A21/99/IF | 130/120 | 60 | CC-8 | 5.37 | 4.06 | 2500/6800 | | 2780/2140 | | | \$24.09/\$21.32 | | I.F.-Extended Service (Ratings @ 120 volts) | |
| PAR46 | Med Sid Pr | 200 | 20115 | 200PAR46/3NSP | 120 | 12 | CC-13 | 4 | | 2000 | | 2270 | 2750 | 31000 | | 1a, 2a, 5b, 5c, 9n | Narrow Reflector | |
| | | 200 | 20138 | 200PAR46/3MFL | 120 | 12 | CC-13 | 4 | | 2000 | | 2270 | 2750 | 11500 | | 1a, 2a, 5b, 5c, 9n | Medium Flood | |
| | | 200 | 20117 | 200PAR46/3NSP | 130 | 12 | CC-13 | 4 | | 2000 | | 2270 | 2750 | 31000 | | 1a, 2a, 5b, 5c, 9n | Narrow Reflector | |
| | | 200 | 20140 | 200PAR46/3MFL | 130 | 12 | CC-13 | 4 | | 2000 | | 2270 | 2750 | 11500 | | 1a, 2a, 5b, 5c, 9n | Medium Flood | |
| PAR56 | Scrw Term | 200 | 20122 | 200PAR | 30 | 12 | CC-8 | 4.50 | | 350 | | | | 230000 | | | Locomotive Headlight | |
| | Mog End Pr | 200 | 49889 | 200PAR56/MFL | 120 | 12 | CC-13 | 5 | | 2000 | | 2270 | 2750 | 15000 | | 1a, 2a, 5b, 5c, 9n | Medium Flood | |
| PS30 | Med | 200/177 | 72548 | 200PS30RS/23/STG | 130/120 | 60 | C-9 | 8.06 | 6.00 | 1000/2600 | | 3000/2280 | | | | | 2a, 2b, 5e, 9l | Saf-T-Guard® |
| 240 Watts | | | | | | | | | | | | | | | | | | |
| PAR56 | Scrw Term | 240 | 20575 | 240PAR56/VNSP | 12 | 12 | C-6 | 4.50 | | 2000 | | | 2800 | 140000 | | 1a, 2a, 5b, 5c, 9n | Very Narrow Reflector | |
| | | 240 | 20576 | 240PAR56/MFL | 12 | 12 | C-6 | 4.50 | | 2000 | | | 2800 | 46000 | | 1a, 2a, 5b, 5c, 9n | Medium Flood | |
| | | 240 | 20577 | 240PAR56/WFL | 12 | 12 | C-6 | 4.50 | | 2000 | | | 2800 | 13000 | | 1a, 2a, 5b, 5c, 9n | Wide Flood | |
| 250 Watts | | | | | | | | | | | | | | | | | | |
| R40 | Med | 250 | 37770 | 250R40/1 6PK | 120 | 30 | C-9 | 6.56 | | 5000 | | 2200 | | | | 2a, 2b, 3b, 5e, 6a | Reflector-Warm Up Infrared Heat Lamp-Clear Face | |
| | | 250 | 37771 | 250R40/10 6PK | 120 | 30 | C-9 | 6.56 | | 5000 | | | | | | 2a, 2b, 3b, 5e, 6a | Reflector-Chill Chaser Infrared Heat Lamp, Red, HRG | |
| R40 | Med Skirt | 250 | 20724 | 250R40/4 | 120 | 24 | C-9 | 7.43 | | 5000 | | | | | | 2a, 2b, 3b, 5e, 6a | Reflector Infrared Industrial-Light I.F., BB | |
| R40 | Med | 250 | 47724 | 250R40/1/STG PQ6 | 120 | 30 | C-9 | 6.56 | | 5000 | | | | | | 2a, 2b, 5e, 9a, 9k, 9l, 9m | Heat Lamp Saf-T-Gard® - Shatter-Resistant | |
| | | 250 | 23423 | 21A/R40/FL | 12 | 24 | C-2V | 6.68 | | 1000 | | 2850 | | 1600 | | 2b, 5a, 5e | Reflector Flood | |
| 300 Watts | | | | | | | | | | | | | | | | | | |
| PS25 | Med | 300/266 | 73788 | 300M/130V-PK6 | 130/120 | 6 | CC-8 | 6.93 | 4.92 | 750/1950 | | 6120/4650 | | | | | | Clear |
| | | 300/266 | 73790 | 300M/IF/130V-PK3 | 130/120 | 3 | CC-8 | 6.93 | 4.92 | 750/1950 | | 6120/4650 | | | | | | Inside Frost |
| PS35 | Mog Screw | 300 | 21025 | 300 | 130 | 24 | C-9 | 9.37 | 7.00 | 1000 | | 5820 | | | | | Clear | |
| | | 300 | 21079 | 300/IF | 130 | 24 | C-9 | 9.37 | 7.00 | 1000 | | 5820 | | | | | Inside Frost | |
| R40 | Med | 300 | 21197 | 300R/SP | 120 | 24 | CC-2V | 6.56 | | 2000 | | 3700 | | 9000 | | 2a, 2b, 5b, 9e | Reflector-Light I.F. HORIZ | |
| | | 300 | 21213 | 300R/FL | 120 | 24 | CC-2V | 6.56 | | 2000 | | 3700 | | 2500 | | 2a, 2b, 5b, 9e | Reflector-Flood I.F. HORIZ | |
| | | 300 | 21229 | 300R/FL/1 | 120 | 24 | CC-2V | 6.75 | | 2000 | | 3000 | | 4400 | | 2a, 2b, 5b, 9e | Reflector-Flood-I.F. BB, HRG | |
| | | 300/266 | 21215 | 300R/FL | 130/120 | 24 | CC-2V | 6.56 | | 2000/5400 | | 3465/2670 | | 2500 | | 2a, 2b, 5b, 9e | Reflector Flood-I.F. HORIZ (Ratings @ 120 volts) | |

* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|---------------------------------------|-------------|--------------|------------|----------------|-------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|--------------------|--------------------------|-----------------------------|---|
| Incandescent Lamps (continued) | | | | | | | | | | | | | | | | | |
| 300 Watts (continued) | | | | | | | | | | | | | | | | | |
| R40 | Mog Screw | 300 | 21254 | 300R/3FL | 120 | 24 | CC-2V | 7.25 | | 2000 | | 3000 | | | | 2a, 2b, 5b, 9e | Reflector Flood-I.F.1BB |
| PAR56 | Scrw Term | 300 | 23427 | 300PAR56/WFL | 12 | 12 | C-6 | 4.50 | | 1000 | | 6000 | | | | 2b, 9f, 9n | PAR-Wide Flood. Swimming |
| | Mog End Pr | 300 | 20803 | 300PAR56/NSP | 120 | 12 | CC-13 | 5 | | 2000 | | 3840 | 2750 | 68000 | | 1a, 2a, 5b, 5c, 9n | Narrow Reflector |
| | | 300 | 20836 | 300PAR56/MFL | 120 | 12 | CC-13 | 5 | | 2000 | | 3840 | 2750 | 24000 | | 1a, 2a, 5b, 5c, 9n | Medium Flood |
| | | 300 | 20849 | 300PAR56/WFL | 120 | 12 | CC-13 | 5 | | 2000 | | 3840 | 2750 | 11000 | | 1a, 2a, 5b, 5c, 9n | Wide Flood |
| | | 300 | 20838 | 300PAR56/MFL | 130 | 12 | CC-13 | 5 | | 2000 | | 3840 | 2750 | 24000 | | 1a, 2a, 5b, 5c, 9n | Medium Flood |
| 300 | 20851 | 300PAR56/WFL | 130 | 12 | CC-13 | 5 | | 2000 | | 3840 | 2750 | 11000 | | 1a, 2a, 5b, 5c, 9n | Wide Flood | | |
| 350 Watts | | | | | | | | | | | | | | | | | |
| PAR56 | Scrw Term | 350 | 19866 | 350PAR56/SP | 75 | 12 | CC-8 | 4.50 | | 500 | | 6200 | | | | 1a, 2a, 5b, 5c, 9n | Ditch Light-Locomotive |
| 375 Watts | | | | | | | | | | | | | | | | | |
| R40 | Med Skirt | 375 | 21331 | 375R40 | 115 | 24 | C-9 | 7.37 | | 5000 | | | | | | 2a, 2b, 3b, 5e, 6a | Reflector Infrared Industrial-Light I.F., BB |
| | | 375 | 21334 | 375R40/1 | 115 | 24 | C-9 | 7.50 | | 5000 | | 2700 | | 1170 | | 2a, 2b, 3b, 5e, 6a | Reflector Infrared Industrial-Clear Face, HRG, BB |
| 400 Watts | | | | | | | | | | | | | | | | | |
| R40 | Med | 400 | 17542 | 400R40/FL | 120 | 24 | CC-2V | 6.75 | | 2000 | | 4400 | | | | 5b, 5c, 9b | Reflector Flood. Swimming Pool, BB, HRG |
| 500 Watts | | | | | | | | | | | | | | | | | |
| PS35 | Mog Screw | 500 | 21532 | 500 | 130 | 24 | CC-8 | 9.37 | 7.00 | 1000 | | 10850 | | | | 5d, 5e | Clear, BB |
| R40 | Mog Screw | 500 | 21734 | 500R/3FL | 120 | 24 | CC-2V | 7.25 | | 2000 | | 6000 | | 8000 | | 2a, 2b, 5b, 9e | Reflector Flood-I.F. BB, HRG |
| | | 500 | 21736 | 500R/3FL | 130 | 24 | CC-2V | 7.25 | | 2000 | | 6000 | | 8000 | | 2a, 2b, 5b, 9e | Reflector Flood-I.F., BB, HRG |
| R40 | Med | 500 | 48316 | 500R40/5FL/SLV | 120 | 24 | CC-2V | 6.75 | | 2000 | | 5500 | | 3200 | | 9k | Reflector-Swimming Pool. BB, HRG |
| PAR64 | Mog End Pr | 500 | 39411 | 500PAR64/MFL | 230 | 12 | CC-13 | 6 | | 2000 | | 5500 | 2700 | | | 1a, 2a, 5b, 5c, 9n | Medium Flood |
| | | 500 | 39414 | 500PAR64/WFL | 230 | 12 | CC-13 | 6 | | 2000 | | 5500 | 2700 | | | 1a, 2a, 5b, 5c, 9n | Wide Flood |
| | ExMog EndPr | 500 | 39406 | 500PAR64/NSP | 120 | 12 | CC-13 | 6 | | 2000 | | 6500 | 2800 | 110000 | | 1a, 2a, 5b, 5c, 9n | Narrow Reflector |
| | | 500 | 39409 | 500PAR64/MFL | 120 | 12 | CC-13 | 6 | | 2000 | | 6500 | 2800 | 37000 | | 1a, 2a, 5b, 5c, 9n | Medium Flood |
| | | 500 | 39412 | 500PAR64/WFL | 120 | 12 | CC-13 | 6 | | 2000 | | 6500 | 2800 | 13000 | | 1a, 2a, 5b, 5c, 9n | Wide Flood |
| 1000 Watts | | | | | | | | | | | | | | | | | |
| PS52 | Mog Screw | 1000 | 22260 | 1000 | 130 | 12 | CC-8 | 13 | 9.50 | 1000 | | 23740 | | | | 5d, 5e | Clear, BB |
| Export Only | | | | | | | | | | | | | | | | | |
| 40 Watts | | | | | | | | | | | | | | | | | |
| A19 | Med | 40 | 13255 | 40A 48PK | 120 | 48 | CC-6 | 4.331 | 3.15 | 1000 | 0.8 | 505 | 2700 | | | | Standard |
| | | 40 | 13257 | 40A/W 48PK | 120 | 48 | CC-6 | 4.331 | 3.15 | 1000 | 0.8 | 490 | 2700 | | | | Standard |
| | | 40 | 48687 | 40A/RVL 48PK | 120 | 48 | CC-6 | 4.409 | 3.15 | 1000 | 0.8 | 360 | 2725 | | | | Reveal® Soft-White |
| | | 40 | 97470 | 40A/CL-2PK | 120 | 24 | CC-6 | 4.331 | 3.15 | 1500 | 0.8 | 480 | 2700 | | | | Clear |

* Based on 3 hours per day use.
 ** Based on 3 hours per day use, \$0.11 per Kwh

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4. All warning and caution notices found at the end of this section (page 1-20).

Incandescent Lamps

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|--------------------------------|-----------|--------------|------------|------------------|-------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|-------|--------------------------|-----------------------------|-------------------------------------|
| Export Only (continued) | | | | | | | | | | | | | | | | | |
| 60 Watts | | | | | | | | | | | | | | | | | |
| A19 | Med | 60 | 41026 | 60A 48PK | 120 | 48 | CC-6 | 4.311 | 2.897 | 1000 | 0.8 | 865 | 2800 | | | | Standard |
| | | 60 | 41028 | 60A/W 48PK | 120 | 48 | CC-6 | 4.331 | 3.15 | 1000 | 0.8 | 840 | 2800 | | | | Standard |
| | | 60 | 97490 | 60A/CL-2PK | 120 | 24 | CC-8 | 4.331 | 3.15 | 1000 | 0.8 | 870 | 2800 | | | | Clear |
| | | 60 | 97496 | 60A/W/LL-2PK | 120 | 24 | CC-6 | 4.331 | 3.15 | 1000 | 0.8 | 820 | 2800 | | | | Soft-White, Long Life |
| 75 Watts | | | | | | | | | | | | | | | | | |
| A19 | Med | 75 | 41030 | 75A 48PK | 120 | 48 | CC-6 | 4.43 | 3.12 | 750 | 0.7 | 1170 | 2800 | | \$9.03 | | Standard |
| | | 75 | 97779 | 75A-2/24PK | 120 | 48 | CC-6 | 4.43 | 3.12 | 750 | 0.7 | 1170 | 2800 | | \$9.03 | | Standard |
| | | 75 | 97468 | 75A/CL-2PK | 120 | 24 | CC-6 | 4.43 | 3.12 | 750 | 0.7 | 1170 | 2750 | | \$9.03 | | Clear |
| | | 75 | 48689 | 75A/RVL 48PK | 120 | 48 | CC-8 | 4.43 | 3.12 | 750 | 0.7 | 830 | 2850 | | \$9.03 | | Reveal® Soft-White |
| | | 75 | 41032 | 75A/W 48PK | 120 | 48 | CC-6 | 4.43 | 3.12 | 750 | 0.7 | 1170 | 2800 | | \$9.03 | | Soft-White |
| 75 | 97497 | 75A/W/LL-2PK | 120 | 24 | CC-6 | 4.43 | 3.12 | 1125 | 1.0 | 1125 | 2800 | | \$9.03 | | Soft-White, Long Life | | |
| PAR38 | Med Skirt | 75 | 14510 | 75PAR/FL/EX-120 | 120 | 12 | CC-6 | 5.31 | | 2000 | | 765 | 2700 | 1750 | | 1a, 2a, 2b | Flood |
| 85 Watts | | | | | | | | | | | | | | | | | |
| PAR38 | Med Skirt | 85 | 14509 | 100PAR/FL85WM/EX | 120 | 6 | CC-6 | 5.31 | | 2000 | | 930 | 2700 | 2000 | | 1a, 2a, 2b | Watt-Miser®, Flood, Reduced Wattage |
| 100 Watts | | | | | | | | | | | | | | | | | |
| A19 | Med | 100 | 41034 | 100A 48PK | 120 | 48 | CC-8 | 4.43 | 3.12 | 750 | 0.7 | 1710 | 2800 | | \$12.05 | | Standard |
| | | 100 | 97780 | 100A-2/24PK | 120 | 24 | CC-8 | 4.43 | 3.12 | 750 | 0.7 | 1710 | 2800 | | \$12.05 | | Standard |
| | | 100 | 97489 | 100A/CL-2PK | 120 | 24 | CC-8 | 4.43 | 3.12 | 750 | 0.7 | 1730 | 2800 | | \$12.05 | | Clear |
| | | 100 | 48690 | 100A/RVL 48PK | 120 | 48 | CC-8 | 4.43 | 3.12 | 750 | 0.7 | 1260 | 2850 | | \$12.05 | | Reveal® |
| | | 100 | 41036 | 100A/W 48PK | 120 | 48 | CC-8 | 4.43 | 3.12 | 750 | 0.7 | 1690 | 2800 | | \$12.05 | | Soft White |
| | | 100 | 97761 | 100A/W/LL-2PK | 120 | 24 | CC-8 | 4.43 | 3.12 | 1125 | 1.0 | 1600 | 2800 | | \$12.05 | | Long Life Soft White |
| 120 Watts | | | | | | | | | | | | | | | | | |
| PAR38 | Med Skirt | 120 | 14501 | 150PAR/FL/120WM/ | 120 | 12 | CC-6 | 5.31 | | 2000 | | 1370 | 2725 | 3600 | | 1a, 2a, 2b | Watt-Miser®, Flood, Reduced Wattage |
| | | 120 | 14502 | 150PAR/SP/120WM/ | 120 | 12 | CC-6 | 5.31 | | 2000 | | 1370 | 2725 | 9200 | | 1a, 2a, 2b | Watt-Miser®, Spot, Reduced Wattage |
| 150 Watts | | | | | | | | | | | | | | | | | |
| PAR38 | Med Skirt | 150 | 14531 | 150PAR/FL/EX-120 | 120 | 12 | CC-6 | 5.31 | | 2000 | | 1740 | 2775 | 3100 | | 1a, 2a, 2b | Flood |
| | | 150 | 14535 | 150PAR/SP/EX-120 | 120 | 12 | CC-6 | 5.31 | | 2000 | | 1740 | 2775 | 12000 | | 1a, 2a, 2b | Spot |
| Airport | | | | | | | | | | | | | | | | | |
| 30 Watts | | | | | | | | | | | | | | | | | |
| T10 | Med PF | 30 | 23294 | 6.6A/T10/1P | 4.5 | 60 | C-2V | 3.90 | 1.50 | 1000 | | 400 | | | | | Clear |
| | | 45 | 23295 | 6.6A/T10P | 6.8 | 60 | C-2V | 3.60 | 1.50 | 1000 | | 675 | | | | | Clear |
| 40 Watts | | | | | | | | | | | | | | | | | |
| T10 | Med PF | 40 | 15921 | 40T10P | 120 | 60 | CC-2V | 3.90 | 1.50 | 1000 | | 400 | | | | | Clear |
| 200 Watts | | | | | | | | | | | | | | | | | |
| T14 | Med PF | 200 | 23298 | 6.6A/T14P | | 24 | C-13 | 5.75 | 2.18 | | | 4900 | | | | | Clear |
| 620 Watts | | | | | | | | | | | | | | | | | |
| PS40 | Mogul PF | 620 | 21950 | 620PS40P | 120 | 24 | C-9 | 10.06 | 5.68 | 3000 | | 11200 | | | | | Clear |
| | | 620 | 21952 | 620PS40P | 130 | 24 | C-9 | 10.06 | 5.68 | 3000 | | 11200 | | | | | Clear |
| Landscape Lighting | | | | | | | | | | | | | | | | | |
| 4 Watts | | | | | | | | | | | | | | | | | |
| T5 | Wedge | 4 | 71479 | 901/LAND/BP2 | 12 | 48 | C-2R | 1.49 | 0.08 | 500 | | 36 | | | | | |
| 7 Watts | | | | | | | | | | | | | | | | | |
| T5 | Wedge | 7 | 71480 | 918/LAND/BP2 | 12 | 48 | C-2R | 1.49 | 0.08 | 500 | | 82 | | | | | |
| 11 Watts | | | | | | | | | | | | | | | | | |
| T5 | Wedge | 11 | 71481 | 923/LAND/BP2 | 12 | 48 | C-2R | 1.49 | 0.08 | 500 | | 157 | | | | | |
| Decorative | | | | | | | | | | | | | | | | | |
| 3 Watts | | | | | | | | | | | | | | | | | |
| CA10 | Cand | 3 | 73254 | 3CAC/FF/CD1-6PK | 120 | 6 | | 4.13 | | 2000 | | | | | | | Flicker Flame |

* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per kWh

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information | |
|-------------------------------|------|-------|------------|-------------------|-------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|------|--------------------------|-----------------------------|---|--|
| Decorative (continued) | | | | | | | | | | | | | | | | | | |
| 15 Watts | | | | | | | | | | | | | | | | | | |
| B8 | Cand | 15 | 75257 | 15BC/8/CF2/PK5-MP | 120 | 5 | C-7A | 3.87 | | 1500 | 1.4 | 105 | 2500 | | \$1.81 | | Blunt Tip, Ceiling Fan, Vibration Resistant, Multipurpose Deco | |
| B10 | Cand | 15 | 74033 | 15BC/RVL/CF-T4/6 | 120 | 6 | C7-A | 3.87 | | 1500 | 1.4 | 80 | 2550 | | \$1.81 | | Reveal®, Blunt Tip, Ceiling Fan, Vibration Resistant | |
| | | 15 | 74974 | 15BC10/CF/CD2-MPD | 120 | 5 | C7-A | 3.87 | | 1500 | 1.4 | 95 | 2500 | | \$1.81 | | Blunt Tip, Ceiling Fan, Vibration Resistant, Multipurpose Deco | |
| CA8 | Cand | 15 | 48396 | 15CAC CD2 6PK | 120 | 30 | C-7A | 4.12 | | 1500 | 1.4 | 115 | 2500 | | \$1.81 | | Bent Tip | |
| F10 | Cand | 15 | 48395 | 15FC CD2 6PK | 120 | 30 | C-7A | 4.37 | | 1500 | 1.4 | 105 | 2500 | | \$1.81 | | Clear-Chandelier | |
| | | 15 | 75256 | 15FC/AU/CF2/5-MP | 120 | 5 | C-7A | 4.37 | | 1500 | 1.4 | 105 | 2300 | | \$1.81 | | Auradescent, Flame Tip, Ceiling Fan, Vibration Resistant, Multipurpose Deco | |
| | | 15 | 48394 | 15FC/AU CD2 6PK | 120 | 30 | C-7A | 4.37 | | 1500 | 1.4 | 105 | 2300 | | \$1.81 | | Auradescent, Flame Tip | |
| 25 Watts | | | | | | | | | | | | | | | | | | |
| B8 | Cand | 25 | 75258 | 25BC8/CF2/PK5-MP | 120 | 5 | C-7A | 3.87 | | 1500 | 1.4 | 160 | 2500 | | \$3.01 | | Blunt Tip, Ceiling Fan, Vibration Resistant, Multipurpose Deco | |
| B10 | Cand | 25 | 74979 | 25BC10RVL/CF2-MP | 120 | 5 | C-7A | 3.87 | | 1500 | 1.4 | 135 | 2550 | | \$3.01 | | Reveal®, Blunt Tip, Ceiling Fan, Vibration Resistant, Multipurpose Deco | |
| | | 25 | 74978 | 25BC10/CF/CD2-MP | 120 | 5 | C-7A | 3.87 | | 1500 | 1.4 | 155 | 2500 | | \$3.01 | | Blunt Tip, Ceiling Fan, Vibration Resistant, Multipurpose Deco | |
| | | 25 | 15787 | 25BC 25PK | 120 | 200 | C-7A | 3.75 | | 1500 | 1.4 | 220 | 2500 | | \$3.01 | | Clear, Blunt Tip | |
| | | 25 | 48700 | 25BC/RVL CD2 | 120 | 30 | C-7A | 3.75 | | 1500 | 1.4 | 150 | 2550 | | \$3.01 | | Reveal®, Blunt Tip | |
| | Med | 25 | 22756 | 25BM CD2 | 120 | 60 | C-7A | 4.62 | | 1500 | 1.4 | 170 | 2500 | | \$3.01 | | Clear, Blunt Tip | |
| B13 | Med | 25 | 75322 | 25BM/C33/CF2-TP5 | 120 | 5 | C-9 | 4.62 | | 1500 | 1.4 | 135 | 2500 | | \$3.01 | | Clear Ceiling Fan, Chandelier, Multipurpose Deco | |
| CA10 | Cand | 25 | 15777 | 25CAC 25PK | 120 | 200 | CC-2V | 4.12 | | 1500 | 1.4 | 220 | 2500 | | \$3.01 | | Clear, Bent Tip | |
| | | 25 | 76234 | 25CAC/CL/CD4-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 220 | 2500 | | \$3.01 | | Clear, Bent Tip | |
| | | 25 | 66104 | 25CAC/CL/CD2-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 220 | 2500 | | \$3.01 | | Clear, Bent Tip | |
| | | 25 | 76235 | 25CAC/F/CD4-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 155 | 2500 | | \$3.01 | | White, Bent Tip | |
| | | 25 | 66105 | 25CAC/F/CD2-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 215 | 2500 | | \$3.01 | | White, Bent Tip | |
| | | 25 | 40045 | 25CAC/L | 120 | 120 | CC-2V | 4.12 | | 4000 | 3.7 | 210 | 2500 | | \$3.01 | | Clear, Bent Tip, Brass Base, LL | |
| | | 25 | 16365 | 25CAC/L/BB-CD4 | 120 | 24 | CC-2V | 4.12 | | 3000 | 2.7 | 210 | 2500 | | \$3.01 | | Clear, Bent Tip | |
| F15 | Med | 25 | 75337 | 25FM/C/CF2-TP4 | 120 | 4 | C-9 | 4.37 | | 1500 | 1.4 | 170 | 2400 | | \$3.01 | | Clear, Flame Ceiling Fan | |
| | | 25 | 75339 | 25FM/A/CF2-TP4 | 120 | 4 | C-9 | 4.37 | | 1500 | 1.4 | 120 | 2400 | | \$3.01 | | Ceiling Fan | |
| | | 25 | 75340 | 25FM/AU/CF2-TP4 | 120 | 4 | C-9 | 4.37 | | 1500 | 1.4 | 170 | 2400 | | \$3.01 | | Auradescent Ceiling Fan | |
| | | 25 | 75338 | 25FM/W/CF2-TP4 | 120 | 4 | C-9 | 4.37 | | 1500 | 1.4 | 140 | 2400 | | \$3.01 | | White, Ceiling Fan | |
| G16.5 | Cand | 25 | 11303 | 25GC 12PK | 120 | 120 | CC-2V | 3.00 | | 1500 | 1.4 | 220 | 2500 | | \$3.01 | 5e, 9d | Clear, Globe, BDTH | |
| | | 25 | 17722 | 25GC CD2 | 120 | 60 | CC-2V | 3.00 | | 1500 | 1.4 | 195 | 2500 | | \$3.01 | 5e, 9d | Clear, Globe, BDTH | |
| | | 25 | 48703 | 25GC/RVL CD2 | 120 | 30 | CC-2V | 3.00 | | 1500 | 1.4 | 145 | 2525 | | \$3.01 | 5e, 9d | Reveal®, Globe, BDTH | |
| | | 25 | 72800 | 25GC/CL/CD2-4PK | 120 | 4 | CC-2V | 3.00 | | 1500 | 1.4 | 195 | 2500 | | \$3.01 | 5e, 9d | Clear, Globe, BDTH | |
| | | 25 | 72801 | 25GC/AU/CD2 4PK | 120 | 4 | CC-2V | 3.00 | | 1500 | 1.4 | 220 | 2500 | | \$3.01 | 5e, 9d | Auradescent Globe, BDTH | |
| | | 25 | 44412 | 25GC/W PQ2/6 | 120 | 30 | CC-2V | 3.00 | | 1500 | 1.4 | 180 | 2500 | | \$3.01 | 5e, 9d | White, Globe, BDTH | |
| | | 25 | 39679 | 25GC/W 12PK | 120 | 120 | CC-2V | 3.00 | | 1500 | 1.4 | 180 | 2500 | | \$3.01 | 5e, 9d | White, Globe, BDTH | |
| | | 25 | 15790 | 25GC 25PK | 120 | 100 | CC-2V | 3.00 | | 1500 | 1.4 | 195 | 2500 | | \$3.01 | 5e, 9d | Clear, Globe, BDTH | |
| G16.5 | Med | 25 | 31106 | 25GM/CL-PQ2/6 | 120 | 30 | CC-2V | 3.00 | | 1500 | 1.4 | 160 | 2500 | | \$3.01 | 5e, 9d | Clear, Globe, BDTH | |
| | | 25 | 31107 | 25GM/W-PQ2/6 | 120 | 30 | CC-2V | 3.00 | | 1500 | 1.4 | 180 | 2500 | | \$3.01 | 5e, 9d | Clear, Globe, BDTH | |
| G25 | Med | 25 | 12982 | 25G25/W 6PK | 120 | 6 | CC-6 | 4.50 | | 1500 | 1.4 | 180 | 2500 | | \$3.01 | 5e, 9d | Clear, Globe, BDTH | |
| | | 25 | 12983 | 25G25 6PK | 120 | 6 | CC-6 | 4.50 | | 1500 | 1.4 | 190 | 2500 | | \$3.01 | 5e, 9d | Clear, Globe, BDTH | |
| | | 25 | 25546 | 25G25/W CPK | 120 | 24 | CC-6 | 4.50 | | 1500 | 1.4 | 180 | 2500 | | \$3.01 | 5e, 9d | White, Globe, BDTH | |
| | | 25 | 25545 | 25G25 CPK | 120 | 24 | CC-6 | 4.50 | | 1500 | 1.4 | 190 | 2500 | | \$3.01 | 5e, 9d | Clear, Globe, BDTH | |

* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh

Incandescent Lamps

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information | |
|-------------------------------|------|-------|------------|-------------------|-------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|------|--------------------------|-----------------------------|---|--|
| Decorative (continued) | | | | | | | | | | | | | | | | | | |
| 40 Watts | | | | | | | | | | | | | | | | | | |
| B8 | Cand | 40 | 75259 | 40BC8/CF2/PK5-MP | 120 | 5 | C-7A | 3.87 | | 1500 | 1.4 | 300 | 2500 | | \$4.82 | | Clear, Blunt Tip, Ceiling Fan, Multipurpose Deco | |
| B10 | Cand | 40 | 74035 | 40BC/RVL/CF-T4/6 | 120 | 6 | C-7A | 3.87 | | 1500 | 1.4 | 230 | 2550 | | \$4.82 | | Reveal®, Clear, Blunt Tip, Ceiling Fan | |
| | | 40 | 75034 | 40BC10RVL/CF2-MP5 | 120 | 5 | C-7A | 3.87 | | 1500 | 1.4 | 230 | 2550 | | \$4.82 | | Reveal®, Clear, Blunt Tip, Ceiling Fan, Multipurpose Deco | |
| | | 40 | 75033 | 40BC10/CF/CD2-MP | 120 | 5 | C-7A | 3.87 | | 1500 | 1.4 | 280 | 2500 | | \$4.82 | | Clear, Blunt Tip, Multipurpose Deco | |
| | | 40 | 15788 | 40BC 25PK | 120 | 200 | CC-2V | 3.75 | | 1500 | 1.4 | 370 | 2500 | | \$4.82 | | Clear, Blunt Tip | |
| | | 40 | 48701 | 40BC/RVL CD2 | 120 | 30 | CC-2V | 3.75 | | 1500 | 1.4 | 230 | 2550 | | \$4.82 | | Reveal® Clear, Blunt Tip | |
| B10 | Med | 40 | 12993 | 40BM CD2 | 120 | 60 | C-9 | 3.75 | | 1500 | 1.4 | 380 | 2500 | | \$4.82 | | Clear, Blunt Tip | |
| | | 40 | 48699 | 40BM/RVL CD2 | 120 | 30 | C-9 | 3.75 | | 1500 | 1.4 | 285 | 2550 | | \$4.82 | | Reveal®, Blunt Tip | |
| B13 | Med | 40 | 75317 | 40BFM/CF2/PK4-MP | 120 | 4 | C-9 | 4.62 | | 1500 | 1.4 | 350 | 2500 | | \$4.82 | | Facet, Ceiling Fan | |
| | | 40 | 72780 | 40BM/RVL/CD2-4PK | 120 | 4 | C-9 | 4.62 | | 1500 | 1.4 | 285 | 2550 | | \$4.82 | | Clear, Bent Tip | |
| CA10 | Med | 40 | 75335 | 40CAM/CF6/PK5-MP | 120 | 5 | CC-2V | 4.56 | | 1500 | 1.4 | 350 | 2500 | | \$4.82 | | Clear, Bent Tip, Multipurpose Deco | |
| | | 40 | 76230 | 40CAM/CL/CD4-MPD | 120 | 4 | CC-2V | 4.56 | | 1500 | 1.4 | 330 | 2500 | | \$4.82 | | Clear, Bent Tip | |
| | | 40 | 66109 | 40CAM/CL/CD2-MPD | 120 | 4 | CC-2V | 4.56 | | 1500 | 1.4 | 330 | 2500 | | \$4.82 | | Clear, Bent Tip | |
| | | 40 | 48342 | 40CAM/L/BB CD4 | 120 | 30 | CC-2V | 4.56 | | 3000 | 2.7 | 360 | 2500 | | \$4.82 | | Post Light | |
| | | 40 | 22813 | 40CAM/L/BB CD2 | 120 | 30 | CC-2V | 4.56 | | 3000 | 2.7 | 360 | 2500 | | \$4.82 | | Clear, Bent Tip, Long Life, Brass Base | |
| CA10 | Cand | 40 | 15778 | 40CAC 25PK | 120 | 200 | CC-2V | 4.12 | | 1500 | 1.4 | 370 | 2500 | | \$4.82 | | Clear, Bent Tip | |
| | | 40 | 76236 | 40CAC/CL/CD2-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 370 | 2500 | | \$4.82 | | Clear, Bent Tip | |
| | | 40 | 76237 | 40CAC/CL/CD4-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 370 | 2500 | | \$4.82 | | Clear, Bent Tip | |
| | | 40 | 76238 | 40CAC/F/CD4-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 360 | 2500 | | \$4.82 | | White, Bent Tip | |
| | | 40 | 66106 | 40CAC/F/CD2-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 360 | 2500 | | \$4.82 | | White, Bent Tip | |
| | | 40 | 48341 | 40CAC/L/BB-CD4 | 120 | 30 | CC-2V | 4.12 | | 3000 | 1.4 | 360 | 2500 | | \$4.82 | | Clear, Bent Tip, Brass Base, Long Life | |
| F15 | Med | 40 | 75341 | 40FM/C/CF2-TP4 | 120 | 4 | C-6 | 4.37 | | 1500 | 1.4 | 350 | 2500 | | \$4.82 | | Clear, Flame, Ceiling Fan, Vibration Resistant | |
| | | 40 | 75343 | 40FM/AU/CF2-TP4 | 120 | 4 | C-6 | 4.37 | | 1500 | 1.4 | 350 | 2500 | | \$4.82 | | Auradescent, Flame, Ceiling Fan, Vibration Resistant | |
| | | 40 | 75342 | 40FM/W/CF2-TP4 | 120 | 4 | C-6 | 4.37 | | 1500 | 1.4 | 315 | 2500 | | \$4.82 | | White, Flame, Ceiling Fan, Vibration Resistant | |
| | | 40 | 75344 | 40FM/A/CF2-TP4 | 120 | 4 | C-6 | 4.37 | | 1500 | 1.4 | 140 | 2500 | | \$4.82 | | Amber, Ceiling Fan, Vibration Resistant | |
| G16.5 | Cand | 40 | 14958 | 40GC 12PK | 120 | 120 | CC-2V | 3.00 | | 1500 | 1.4 | 320 | 2500 | | \$4.82 | 5e, 9d | Clear, Globe, BDTH | |
| | | 40 | 17730 | 40GC CD2 | 120 | 60 | CC-2V | 3.00 | | 1500 | 1.4 | 320 | 2500 | | \$4.82 | 5e, 9d | Clear, Globe, BDTH | |
| | | 40 | 44414 | 40GC/W PQ2/6 | 120 | 30 | CC-2V | 3.00 | | 1500 | 1.4 | 290 | 2500 | | \$4.82 | 5e, 9d | White, Globe, BDTH | |
| | | 40 | 72802 | 40GC/CL/CD2-4PK | 120 | 4 | CC-2V | 3.00 | | 1500 | 1.4 | 320 | 2500 | | \$4.82 | 5e, 9d | Clear, Globe, BDTH | |
| | | 40 | 72803 | 40GC/AU/CD2-4PK | 120 | 4 | CC-2V | 3.00 | | 1500 | 1.4 | 370 | 2500 | | \$4.82 | 5e, 9d | Auradescent, Globe, BDTH | |
| | | 40 | 48704 | 40GC/RVL CD2 | 120 | 30 | CC-2V | 3.00 | | 1500 | 1.4 | 240 | 2550 | | \$4.82 | 5e, 9d | Reveal®, Globe, BDTH | |
| | | 40 | 72209 | 40GC/W/CD2-4PK | 120 | 4 | CC-2V | 3.00 | | 1500 | 1.4 | 290 | 2500 | | \$4.82 | 5e, 9d | White, Globe, BDTH | |
| | | 40 | 48705 | 40GC/W/RVL CD2 | 120 | 30 | CC-2V | 3.00 | | 1500 | 1.4 | 220 | 2550 | | \$4.82 | 5e, 9d | Reveal® White, Globe, BDTH | |
| G16.5 | Med | 40 | 31109 | 40GM/CL-PQ2/6 | 120 | 30 | CC-2V | 3.00 | | 1500 | 1.4 | 310 | 2500 | | \$4.82 | 5e, 9d | Clear, Globe, BDTH | |
| | | 40 | 31110 | 40GM/W-PQ2/6 | 120 | 30 | CC-2V | 3.00 | | 1500 | 1.4 | 330 | 2500 | | \$4.82 | 5e, 9d | White, Globe, BDTH | |
| G25 | Med | 40 | 12979 | 40G25/W 6PK | 120 | 6 | CC-6 | 4.50 | | 1500 | 1.4 | 370 | 2500 | | \$4.82 | 5e, 9d | White, Globe, BDTH | |
| | | 40 | 12980 | 40G25 6PK | 120 | 6 | CC-6 | 4.50 | | 1500 | 1.4 | 410 | 2500 | | \$4.82 | 5e, 9d | Clear, Globe, BDTH | |
| | | 40 | 48694 | 40G25C/RVL PQ1/6 | 120 | 6 | CC-6 | 4.50 | | 1500 | 1.4 | 265 | 2550 | | \$4.82 | | Reveal® | |
| | | 40 | 48695 | 40G25W/RVL PQ1/6 | 120 | 6 | CC-6 | 4.50 | | 1500 | 1.4 | 250 | 2550 | | \$4.82 | | Reveal® | |
| | | 40 | 25547 | 40G25/W CPK | 120 | 24 | CC-6 | 4.50 | | 1500 | 1.4 | 370 | 2500 | | \$4.82 | 5e, 9d | White, Globe, BDTH | |
| | | 40 | 25548 | 40G25 CPK | 120 | 24 | CC-6 | 4.50 | | 1500 | 1.4 | 410 | 2500 | | \$4.82 | 5e, 9d | Clear, Globe, BDTH | |
| G40 | Med | 40 | 36191 | 40G40/W 6PK | 120 | 6 | CC-6 | 6.93 | | 2500 | 2.3 | 395 | 2500 | | \$4.82 | 5e, 9d | White, Globe, BDTH | |

* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|-----------------------------------|------|-------|------------|------------------|-------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|------|--------------------------|-----------------------------|--|
| Decorative (continued) | | | | | | | | | | | | | | | | | |
| 60 Watts | | | | | | | | | | | | | | | | | |
| B10 | Cand | 60 | 76229 | 60BC10/CF/CD2-MP | 120 | 4 | C-7A | 3.87 | | 1500 | 1.4 | 540 | 2500 | | \$7.23 | | Clear, Blunt Tip, MultiPurpose Deco |
| | | 60 | 48714 | 60BC/RVL CD2 | 120 | 30 | C-7A | 3.87 | | 1500 | 1.4 | 490 | 2550 | | \$7.23 | | Reveal® |
| | | 60 | 74036 | 60BC/RVL/CF-T4/6 | 120 | 6 | C-7A | 3.75 | | 1500 | 1.4 | 455 | 2550 | | \$7.23 | | Reveal® Clear, Ceiling Fan, Blunt Tip |
| | | 60 | 75201 | 60BC10RVL/CF2-MP | 120 | 6 | C-7A | 3.75 | | 1500 | 1.4 | 455 | 2550 | | \$7.23 | | Reveal® Clear, Ceiling Fan, Blunt Tip |
| B13 | Med | 60 | 48713 | 60BM/RVL CD2 | 120 | 30 | C-9 | 4.62 | | 1500 | 1.4 | 485 | 2650 | | \$7.23 | 2c, 9i | Reveal®, Blunt Tip |
| | | 60 | 72781 | 60BM/RVL/CD2-4PK | 120 | 4 | C-9 | 4.62 | | 1500 | 1.4 | 485 | 2650 | | \$7.23 | 2c, 9i | Reveal®, Blunt Tip |
| CA10 | Cand | 60 | 15781 | 60CAC 25PK | 120 | 200 | CC-2V | 4.12 | | 1500 | 1.4 | 650 | 2500 | | \$7.23 | | Clear, Bent Tip |
| | | 60 | 76239 | 60CAC/CL/CD4-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 650 | 2500 | | \$7.23 | | Clear, Bent Tip |
| | | 60 | 66107 | 60CAC/CL/CD4-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 640 | 2500 | | \$7.23 | | Clear, Bent Tip |
| | | 60 | 76240 | 60CAC/F/CD4-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 640 | 2500 | | \$7.23 | | White, Bent Tip |
| | | 60 | 66108 | 60CAC/F/CD2-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 640 | 2500 | | \$7.23 | | White, Bent Tip |
| G16.5 | Cand | 60 | 72777 | 60GC/CD2-4PK | 120 | 4 | CC-2V | 3.00 | | 1500 | 1.4 | 600 | 2500 | | \$7.23 | 5e, 9d | Clear, Globe, BDTH |
| | | 60 | 23091 | 60GC CD2 | 120 | 60 | CC-2V | 3.00 | | 1500 | 1.4 | 600 | 2500 | | \$7.23 | 5e, 9d | Clear, Globe, BDTH |
| | | 60 | 44723 | 60GC/W PQ2/6 | 120 | 30 | CC-2V | 3.00 | | 1500 | 1.4 | 530 | 2500 | | \$7.23 | 5e, 9d | White, Globe, BDTH |
| G40 | Med | 60 | 14187 | 60G40 6PK | 120 | 6 | CC-6 | 6.93 | | 2500 | 2.3 | 660 | 2600 | | \$7.23 | | Clear, Globe |
| | | 60 | 49780 | 60G40/W 6PK | 120 | 6 | CC-6 | 6.93 | | 2500 | 2.3 | 660 | 2600 | | \$7.23 | | White, Globe |
| | | 60 | 16741 | 60G40/W CPK | 120 | 24 | CC-6 | 6.93 | | 2500 | 2.3 | 660 | 2600 | | \$7.23 | | White, Globe |
| 75 Watts | | | | | | | | | | | | | | | | | |
| E17 | Med | 75 | 73289 | 75E17/TF-4PK | 120 | 4 | CC-6 | 5.00 | | 4000 | | 825 | | | | | |
| | | 75 | 28917 | 75E17/TF-PK4 | 120 | 20 | CC-6 | | | 4000 | 3.7 | 825 | | | | | |
| G40 | Med | 75 | 36193 | 75G40/W 6PK | 120 | 6 | CC-6 | 6.93 | | 2500 | 2.3 | 870 | 2600 | | \$9.03 | | White, Globe |
| 100 Watts | | | | | | | | | | | | | | | | | |
| F20 | Med | 100 | 44540 | 100F20/TF PQ1/6 | 120 | 30 | CC-9 | 5.00 | | 3000 | | 900 | | | | | Post Light, Teflon® Coated, Saf-T-Gard® BB |
| G40 | Med | 100 | 16742 | 100G40/W CPK | 120 | 24 | CC-6 | 6.93 | | 2500 | 2.3 | 1260 | 2700 | | \$12.05 | | White, Globe |
| | | 100 | 49781 | 100G40/W 6PK | 120 | 6 | CC-6 | 6.93 | | 2500 | 2.3 | 1260 | 2700 | | \$12.05 | | White, Globe |
| 150 Watts | | | | | | | | | | | | | | | | | |
| G40 | Med | 150 | 16585 | 150G40/W | 120 | 24 | CC-6 | 6.93 | | 2500 | 2.3 | 2130 | 2800 | | \$18.07 | | White, Globe |
| Portable Lighting Products | | | | | | | | | | | | | | | | | |
| R30 | Med | 65 | 44848 | PLK 1 UNIT | 120 | 4 | CC-6 | 5.37 | | 2000 | | | | | | 2a, 5e, 9k | Plant Light Kit includes one 75R30/ PL Plant Light lamp, UL listed holder and information booklet. |
| Contractor Packs | | | | | | | | | | | | | | | | | |
| G40 | Med | 60 | 16741 | 60G40/W CPK | 120 | 24 | CC-6 | 6.93 | | 2500 | 2.3 | 660 | 2600 | | \$7.23 | | White, Globe |
| | | 100 | 16742 | 100G40/W CPK | 120 | 24 | CC-6 | 6.93 | | 2500 | 2.3 | 1260 | 2700 | | \$12.05 | | White, Globe |
| G25 | Med | 25 | 25546 | 25G25/W CPK | 120 | 24 | CC-6 | 4.50 | | 1500 | 1.4 | 180 | 2500 | | \$3.01 | 5e, 9d | White, Globe, BDTH |
| | | 25 | 25545 | 25G25 CPK | 120 | 24 | CC-6 | 4.50 | | 1500 | 1.4 | 190 | 2500 | | \$3.01 | 5e, 9d | Clear, Globe, BDTH |
| | | 40 | 25547 | 40G25/W CPK | 120 | 24 | CC-6 | 4.50 | | 1500 | 1.4 | 370 | 2500 | | \$4.82 | 5e, 9d | White, Globe, BDTH |
| | | 40 | 25548 | 40G25 CPK | 120 | 24 | CC-6 | 4.50 | | 1500 | 1.4 | 410 | 2500 | | \$4.82 | 5e, 9d | Clear, Globe, BDTH |

* Based on 3 hours per day use.
 ** Based on 3 hours per day use, \$0.11 per Kwh

Incandescent Lamps

Warning and Caution Notices

1

⚠ WARNING

Risk of electric shock

- a. Turn off power before inspection, installation or removal

2

⚠ WARNING

Risk of fire

- a. Keep combustible materials away from lamp
- b. Use in fixture rated for this product
- c. Use in fixture rated for this product – see instructions
- d. Operate base down to horizontal only
- e. Keep away from bed coverings, drapes and other combustible materials
- f. Do not use in enclosed fixture or with lamp shade
- g. Use in a high intensity fixture rated for this product
- h. Do not use as a night light
- i. Burning position base down only

3

⚠ WARNING

Lamp emits IR radiation which may cause eye injury

- a. Use in fixture approved for this product
- b. Do not use on infant, disabled, sleeping, or unconscious person/ animal unable to avoid potential injury

4

⚠ WARNING

Pressurized lamp – unexpected rupture may cause injury, fire, or property damage

- a. Use eye protection when handling lamp
- b. Avoid direct water/liquid contact
- c. Use in enclosed fixture rated for this product
- d. Operate lamp only in specified position

5

⚠ WARNING

Unexpected lamp rupture may cause injury, fire, or property damage

- a. Do not exceed rated voltage
- b. Avoid direct water/liquid contact
- c. Use in enclosed fixture rated for this product
- d. Do not use lamp if outer glass is scratched or broken
- e. Avoid direct water, liquid, or metal contact

6

⚠ WARNING

Risk of burn

- a. Do not touch operating lamp

7

⚠ CAUTION

Risk of burn

- a. Allow lamp to cool before handling
- b. Allow lamp/fixture to cool before handling
- c. Do not touch operating lamp

8

⚠ CAUTION

Lamp may shatter and cause injury if broken

- a. Do not use excessive force when installing lamp

9

Operating Instructions

- a. Burning position – base up
- b. Burning position – horizontal
- c. Burn base down only
- d. Burn base down to horizontal
- e. For best performance burn lamp within 45 degrees of vertical base up
- f. For best performance burn within 45 degree of base down to horizontal
- g. For best performance operate base up within 30° of vertical
- h. For best performance burn base down
- i. Do not burn in base up position
- j. To produce all three levels of light, this lamp should be tightened firmly, but not forcibly, in the socket to assure that all contacts are connected
- k. Should not be used in equipment where the base lamp will exceed 550°F (260°C)
- l. Will operate in any burning position, but fixed-socket usage other than base up, or continuous burning in any position in ambient temperatures above 150°F (66°C), may result in some loss of protective coating
- m. Reflectors and accessories may raise bulb temperature
- n. For use with heat-resistant connector supported by bulb rim or metal shell of base
- o. For best performance replace lamp if it blisters or darkens

Cross-Reference

| GE Description | Osram/Sylvania Description | Philips Description |
|--|----------------------------------|---------------------------|
| Order This GE Lamp | If you currently use these lamps | |
| Incandescent Lamps | | |
| 3S6/5 130V | 3S6/5 130V | 3S6/5 120-130V |
| 4C7 | 4C7/BL/2PK | BC-4C7 |
| 4C7/W | 4C7/W/2PK 120V | BC4C7/W |
| 10S11N | 10S11N/CL | 10S11N |
| 10S11N/F | 10S11N/IF | 10S11N/IF |
| 15S14/GR/CL 130V | 15S14/CL 130V | — |
| 40S11N/1/F | 40S11N/CF 120V | 40S11N/F 120V |
| 40R14/N/CD | 40R14/N/RP | 40R14/N |
| 40T6 1/2 | 40T6.5/CL | 40T6-1/2 120V |
| 40T8 | 40T8 | 40T8 |
| 40T10 | 40T10 | 40T10 |
| 60T10F/CD | 60T10/CF | 60T10/641F |
| High Intensity Discharge | | |
| 38A 130V | 38A/CVP 130V | 38A 120V |
| 38A/CL 130V | not available in 130V | 38A/CL 130V |
| 40A15 | 40A15 | 40A15 |
| 40A 48PK | 40A/CVP 130V | 40A 130V |
| Fluorescent | | |
| 50A19/RS/SH | 50A/RS/SL | 50A/RS/TF 120V |
| 50/150 | 50/150A/W | 50/150T/SW |
| Compact Fluorescent | | |
| 57A 130V | 57A/CVP 130V | 57A 130V |
| 57A/CL 130V | 57A/CL 130V | 57A/CL 130V |
| 60A15 | 60A15 | 60A15 |
| 60A 48PK | 60A/CVP 130V | 60A19/35 |
| 60A/RS 130V | 60A/RS/2/RP 130V | — |
| 60A/RS/STG | 60A/RS/SL/RP 120V | — |
| 60A/PL | 60A/GRO | 60A/AGRO |
| LED Lamps, Tubes and Modules | | |
| 65R30FL/LL | — | 65BR30/FL/LL |
| 65R30/SP/LL | — | 65BR30/SP/LL |
| Stage and Studio | | |
| 71A 130V | 71A/CVP 130V | 71A 120V |
| 71A/CL 130V | not available in 130V | 71A/CL 130V |
| 75A 48PK | 75A/CVP 130V | 75A |
| 75A/RS/130 | 75A/RS/2/RP 130V | — |
| 75A/RS/STG | 75A21/RS/SL/RP 130V | 75A/RH/TG 120-130V |
| Miniature, Sealed Beam and Automotive | | |
| 95A 130V | 95A/CVP 130V | 95A 120V |
| 95A/CL 130V | not available in 130V | 95A/CL 130V |
| 100A 48PK | 100A/CVP 130V | 100A 130V |
| 100A/RS 130V | 100A/RS/2/RP 130V | — |
| 100A/RS/STG | 100A/RS/SL/RP 120V | 100A/RS/VS/BR/TG 120-130V |
| 100A23 | 100A23 12V | 100A 12V |
| Projection | | |
| 150A21/RS | 150A23/RS 130V | — |
| 150A21/RS/STG | — | 150A/35/RS/BR/TG 120-130V |
| 150PS25/RS/STG | 150PS25/RS/SL 120V | — |
| 200PS30/RS/23/STG | 200PS/RS/SL 120V | 200PS30/RS/TF 120V |
| 250R40/10 | 250R40/10 | 250R40/HR |
| 300M | 300M/CL | 300-120V CLR PS30 |
| 300M/F | 300M/IF | 300M/PS30IF 130V |
| 15BC | 15B10C/T | 15BA9C |
| 15FC | 15FC | 15F10C |
| High Intensity Discharge | | |
| 25BC | 25B10C/T | 25B10-1/2C |
| 25BM | 25B10 | 25B13 |
| 25CAC | 25B10C | 25BA9C/CL |
| 25CAC/F | 25B10C/W | 25BA9C/F |
| 25CAC/L | 25B10C/DL | 25BA9C/4M |
| 25CAM | — | 25BA9-1/2 |

| GE Description | Osram/Sylvania Description | Philips Description |
|---------------------------------------|----------------------------------|---------------------|
| Order This GE Lamp | If you currently use these lamps | |
| Incandescent Lamps (continued) | | |
| 25FM/CF | — | — |
| 25GC | 25G16.5C | 25G16-1/2C |
| 25GM | 25G16.5 | 25G16-1/2 |
| 25G25 | 25G25 | 25G25 |
| High Intensity Discharge | | |
| 40BC | 40B10C/T | 40B10-1/2C |
| 40BM | 40B10 | 40B13 |
| 40CAC | 40B10C | 40BA9C/CL |
| 40CAC/F | 40B10C/F | 40BA9C/F |
| 40CAC/L | — | 40BA9C/4M |
| 40CAM | — | 40BA9-1/2 |
| 40CAM/L | — | 40BA9-1/2/LL |
| 40FM/CF | — | — |
| 40GC | 40G16.5C | 40G16-1/2C |
| 40GM | 40G16.5 | 40G16-1/2 |
| 40G25 | 40G25 | 40G25 |
| Fluorescent | | |
| 60BC | 60B10C/T | 60B10-1/2C |
| 60BM | 60B10 | 60B13 |
| 60CAC | 60B10C | 60BA9C/CL |
| 60CAC/F | 60B10C/F | 60BA9C/F |
| 60CAM | — | 60BA9-1/2 |
| 60FM/CF | — | — |
| 60GC | 60G16.5C | 60G16-1/2C |
| 60GM | 60G16.5 | 60G16-1/2 |
| 60G25 | 60G25 | 60G25 |

Halogen Lamps

| | | | |
|---|------|---|------|
| Bulb Identification | 2-2 | Quartzline® | |
| Filament Identification | 2-2 | HIR™ Recessed Single Contact (R7s)..... | 2-11 |
| Base Identification | 2-2 | Halogen G9..... | 2-11 |
| Introduction | 2-3 | Halogen Double Contact Bayonet (BA15d)..... | 2-11 |
| Product Information | 2-3 | Halogen Recessed Single Contact (R7s)..... | 2-12 |
| Section Headings | 2-4 | Halogen PAR56..... | 2-13 |
| Halogen Brand Name Cross-Reference | 2-4 | Halogen PAR64..... | 2-13 |
| Halogen PAR38 Lamps | | Halogen Miniature Candelabra Screw (E11)..... | 2-13 |
| HIR™ Plus(+)..... | 2-5 | Other..... | 2-13 |
| HIR™ Plus(+) XL..... | 2-5 | Airport | 2-13 |
| Standard Halogen..... | 2-5 | Tubular Quartz Heat | |
| Cool Beam PAR38 Quartzline®..... | 2-5 | Sleeve..... | 2-14 |
| Halogen Compact PAR Lamps | | Recessed Single Contact (R7s)..... | 2-14 |
| Compact HIR™ PAR30..... | 2-6 | Other..... | 2-15 |
| Compact HIR™ PAR30 Long Neck..... | 2-6 | General Information | 2-16 |
| Compact PAR30 Long Neck..... | 2-6 | Operating Notes | 2-16 |
| Compact PAR30..... | 2-6 | Warning and Caution Notices | 2-17 |
| Compact PAR20..... | 2-6 | Cross-Reference | 2-18 |
| Halogen Compact PAR16..... | 2-6 | | |
| Compact PAR36..... | 2-6 | | |
| Halogen Reflector | | | |
| HIR™..... | 2-6 | | |
| A-Line/Decorative | | | |
| A-19..... | 2-6 | | |
| A-21..... | 2-7 | | |
| Traditional Decorative..... | 2-7 | | |
| Flame..... | 2-7 | | |
| Globe..... | 2-8 | | |
| T-Shape..... | 2-8 | | |
| Landscape Lighting | 2-8 | | |
| AR70 | 2-8 | | |
| AR111 | 2-8 | | |
| MR | | | |
| Turn & Lock ConstantColor®..... | 2-8 | | |
| ConstantColor® Precise™ Cover Glass MR16..... | 2-9 | | |
| ConstantColor® Precise™ MR16..... | 2-9 | | |
| Precise™ Cover Glass IR MR16..... | 2-9 | | |
| Standard MR16..... | 2-10 | | |
| Standard MR16 Cover Glass..... | 2-10 | | |
| Standard MR11..... | 2-10 | | |
| 120V GU10..... | 2-10 | | |
| Quartz Halogen | | | |
| Low Voltage..... | 2-10 | | |
| High Voltage..... | 2-11 | | |

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

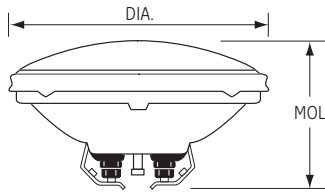
Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

Halogen Lamps

Bulb Identification



DIA. in.: Diameter of bulb at widest point.

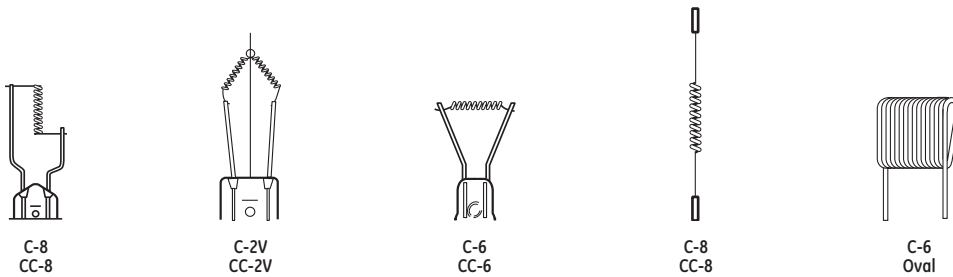
MOL in.: Maximum Overall Length including base or pins.

LCL in.: Distance between the center of the filament and the Light Center Length reference plane.

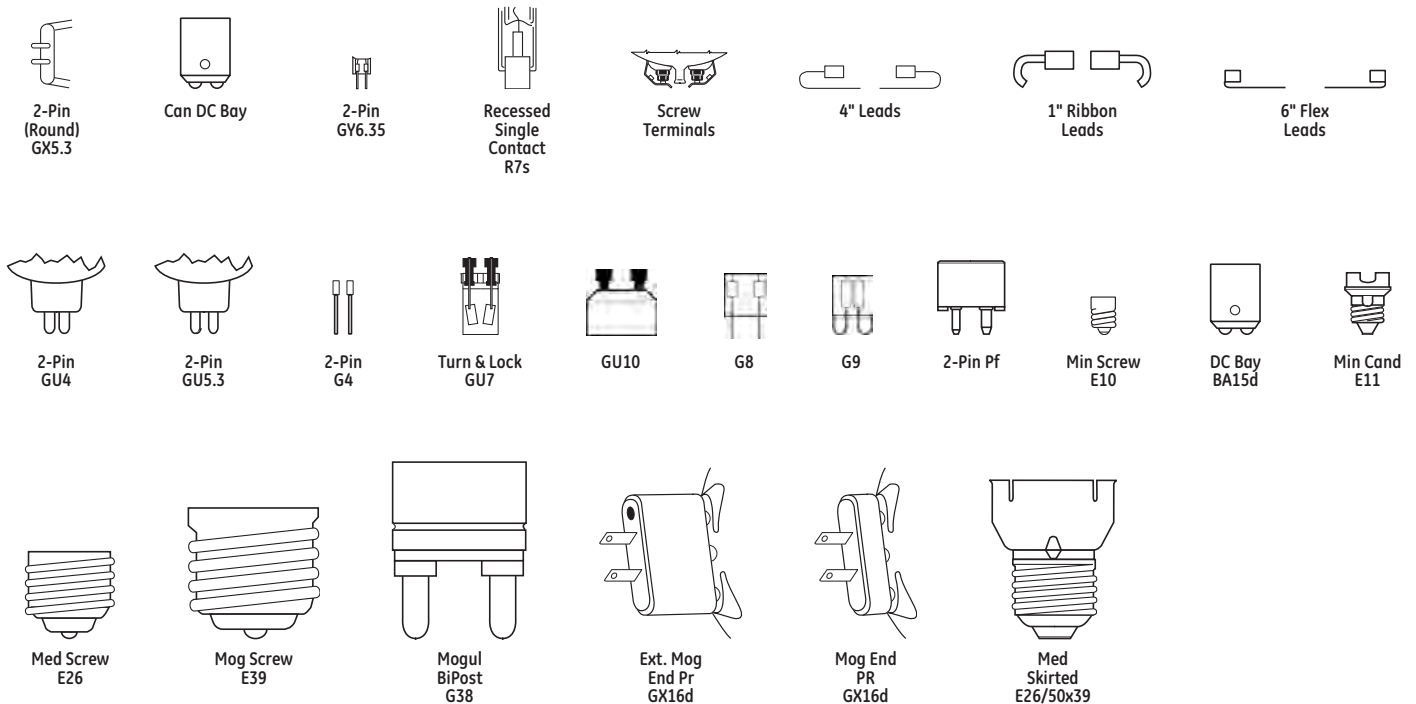
Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

Filament Identification



Base Identification



Introduction

Halogen lamps provide a small, white light source with excellent color rendering. Unlike standard incandescent lamps, halogen lamps use a halogen gas which allows the bulbs to burn longer without sacrificing light output.

Compared to incandescent lamps, halogen lamps provide:

- Crisp, white light
- Excellent beam control
- Compact size
- High lumen maintenance
- Long life

Product Information

PAR38 vs. Standard Halogen

HIR™ Plus (PAR38) (pg 2-5)

- Up to 36% in energy savings
- Up to 50% longer life – 4200 hours

Standard Halogen (PAR38) (pg 2-5)

- Crisp, white light
- Life – 2000 hours

Halogen Compact PAR Lamps

Compact HIR™ PAR30 (pg 2-6)

- Long life – 4000 hours

Compact PAR30 Long Neck (pg 2-6)

- Energy-efficient replacement for R30 lamps
- Ideal for recessed fixtures

Compact PAR Halogen (PAR30/PAR20) (pg 2-6)

- Small size for “low profile” fixture
- Energy-efficient replacement for R20/R30 lamps
- Long life – 3000 hours

MR

Turn & Lock (TAL) ConstantColor® (MR16) (pg 2-8)

- User-friendly base...easy to install and remove
- Over 90% maintained light over life
- Excellent color maintenance
- Suitable for use in open fixtures

ConstantColor® Precise™ Cover Glass (MR16) (pg 2-9)

- Cover glass lens protects bulb from dust and dirt
- Suitable for use in open fixtures

ConstantColor® Precise™ (MR16) (pg 2-9)

- Precise beam control
- Excellent color maintenance
- Over 90% maintained light output over life
- Long life – up to 6000 hours (50-watt)

Precise™ Cover Glass IR (MR16) (pg 2-9)

- Energy-saving MR16
- 5000 hour lamp life

Standard MR (MR16/MR11) (pg 2-10)

- Small size for “low profile” look
- Crisp, white light

Linear Quartz

Linear Quartzline® HIR™ (pg 2-11)

- 30%-40% energy cost savings vs. standard quartz lamps
- 95% maintained light output over life
- Cooler operation increases fixture life

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

Stage and Studio

Miniature, Sealed Beams and Automotive

Projection

Halogen Lamps

Headings in this catalog section

The following terms and descriptions can help you when checking Halogen lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families,

lamps are listed by wattage. In each of these groups, lamps are listed alphabetically by bulb shape.

| | | | | | | | | | | | | | | | | | |
|---|-----------------------------------|--|---|---|--|--|-----------------------|---|---|---|---|--|---|---|--|--|---|
| Bulb Shape: Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch). | Base: The type of base. | Energy Used – Nominal Watts: Energy Used (as defined by FTC Lamp Label Rules). To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000. | Order Code: It is important to use this five-digit code when ordering to ensure that you receive the exact product you require. | Lamp Description: The lamp's identification code. | Case Quantity: Number of product units packed in a case. | Volts: Lamp data is based on operation at rated voltage. | Filament Type: | MOL (in): Maximum Overall Length in inches. | LCL (in): Distance between the center of the filament and the Light Center Length reference plane, in inches. | Rated Life (hours): Life (as defined by FTC Lamp Label Rules) is rated life in hours. | Rated Life (years): Life (as defined by FTC Lamp Label Rules) is rated life in years. | Lumens Initial: Light output (as defined by FTC Lamp Label Rules) is rated lumens. | Initial Color Temperature Kelvins (K): "Warmth" or "Coolness" of the lamp, measured in Kelvins (K). The higher the temperature, the cooler the appearance of the light. | Approximate CBCP (Center Beam Candlepower): For reflector-type lamps, Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam. | Estimated Annual Operating Costs: Estimated yearly energy cost based on 3 hours/day, \$0.11/kWh. Actual cost depends on rates and use. | Warnings and Caution Notices: See page 2-17 for information. | Additional Information: Typical application and/or other important information. |
|---|-----------------------------------|--|---|---|--|--|-----------------------|---|---|---|---|--|---|---|--|--|---|

| Halogen Par 38 Lamps | | | | | | | | | | | | | | | | | |
|-----------------------|-----------|-------|------------|------------------|-------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|--------|--------------------------|-----------------------------|---------------------------------|
| Retail HIR™ & Silv-IR | | | | | | | | | | | | | | | | | |
| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | Filament Type | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Initial Color Temp | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
| PAR38 | Med Skirt | 50 | 46168 | 50PAR/HIR/S/SP10 | 120 | 12 | | 5.31 | | 4000 | | 800 | 2750 | 140000 | | 1a,2a,4f,9a,10c | Spotlight - Heavy Duty Filament |

50 PAR / HIR / SP 10

Identifies the lamp's wattage.
Identifies the lamp shape and the bulb diameter in eighths of inches.
Identifies the lamp type.
Identifies as Spotlight.
Identifies beam angle, code may also include packaging information.

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION





1. Identify bulb shape next to lamp information.
2. Measure bulb diameter using ruler in Appendix section page D-1 to determine width in eighths of an inch.
3. Identify base type using table on page 2-2.
4. Find your lamp in the table containing the bulb shape, size and base, which are all listed by wattage.

Halogen Brand Name Cross-reference

| GE | Osram/Sylvania | Philips |
|----------------------------------|------------------------------|--------------------|
| HIR™ PLUS | — | Long Life IRC |
| Standard Halogen PAR | Capsylite® PAR | Masterline™ 2000 |
| Compact PAR | Capsylite® PAR | Masterline™ PAR |
| Turn & Lock (TAL) ConstantColor® | — | — |
| ConstantColor® Precise™ | Tru-Aim Titan® | Continuum Color® |
| Precise™ IR | Tru-Aim® IR™ | Masterline™ ES IRC |
| Standard MR16 | Tru-Aim® | Continuum® |
| Halogen A-Line | Capsylite® A-Line (Midbreak) | Halogena® |





ATTENTION: This brand-name cross reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturers' performance specifications should be consulted. Lamp performance may be affected by environmental conditions, and/or other auxiliary equipment.

Halogen Lamps

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | Filament Type | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Initial Lumens | Initial Color Temp | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|--|-----------|------------------|--------------------------|--------------------|-------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|--------------------|--------------------------|------------------------------------|---|
| Halogen Compact PAR Lamps | | | | | | | | | | | | | | | | | |
| Compact HIR™ PAR30 | | | | | | | | | | | | | | | | | |
|  | Med | 48 | 66580 | 48PAR30HIR+/NFL | 120 | 6 | CC-8 | 3.62 | | 4200 | 3.8 | 840 | 2775 | 2600 | \$5.78 | 1a,2a,4f,4h,9a,10c | Narrow Floodlight, 25° |
| | | 48 | 76126 | 48PAR30/HIR+/FL30 | 120 | 6 | CC-8 | 3.62 | | 4200 | 3.8 | 840 | 2775 | 2600 | \$5.78 | 1a,2a,4f,4h,9a,10c | Floodlight |
| | | 48 | 76127 | 48PAR30/HIR+/SP10 | 120 | 6 | CC-8 | 3.62 | | 4200 | 3.8 | 840 | 2775 | 10200 | \$5.78 | 1a,2a,4f,4h,9a,10c | Spotlight |
| Compact HIR™ PAR30 Long Neck | | | | | | | | | | | | | | | | | |
| PAR30L | Med | 48 | 73546 | 48PAR30L/HIR+/FL | 120 | 6 | CC-8 | 4.75 | | 4200 | 3.8 | 850 | 2750 | 2500 | \$5.78 | 1a,2a,4f,4h,9a,10c | Floodlight |
| | | 48 | 74779 | 48PAR30L/HIR+/SP | 120 | 6 | CC-8 | 4.75 | | 4200 | 3.8 | 850 | 2750 | 9500 | \$5.78 | 1a,2a,4f,4h,9a,10c | Spotlight |
| Compact PAR30 Long Neck | | | | | | | | | | | | | | | | | |
| PAR30L | Med | 38 | 69168 | 38PAR30L/H/FL25 | 120 | 6 | CC-8 | 4.75 | | 1500 | 1.4 | 550 | 1500 | 2850 | \$4.58 | 1a,2a,4f,4h,9a,10c | Floodlight |
| | | 38 | 69169 | 38PAR30L/H/SP10 | 120 | 6 | CC-8 | 4.75 | | 1500 | 1.4 | 550 | 3800 | 2850 | \$4.58 | 1a,2a,4f,4h,9a,10c | Spotlight |
| Compact PAR30 | | | | | | | | | | | | | | | | | |
| PAR30 | Med | 38 | 69166 | 38PAR30H/FL25 | 120 | 6 | CC-8 | 3.62 | | 1500 | 1.4 | 580 | 1750 | 2850 | \$4.58 | 1a,2a,4f,4h,9a,10c | Floodlight |
| | | 38 | 69167 | 38PAR30H/SP10 | 120 | 6 | CC-8 | 3.62 | | 1500 | 1.4 | 580 | 5700 | 2850 | \$4.58 | 1a,2a,4f,4h,9a,10c | Spotlight |
| Compact PAR20 | | | | | | | | | | | | | | | | | |
|  | Med | 35 | 85476 | 35PAR20H/F25-PQ1/6 | 120 | 6 | CC-8 | 3.13 | | 1500 | 1.4 | 260 | 2700 | 520 | \$4.22 | 1a,2a,4f,4h,9a,10c | Floodlight |
| | | 35 | 71740 | 35PAR20H/YR-TP12 | 120 | 12 | CC-8 | 3.13 | | 1500 | 1.4 | 260 | 2700 | 520 | \$4.22 | 1a,2a,4f,4h,9a,10c | Floodlight |
| | | 38 | 69163 | 38PAR20H/FL25 | 120 | 6 | CC-8 | 3.13 | | 1500 | 1.4 | 490 | 1450 | 2850 | \$4.58 | 1a,2a,4f,4h,9a,10c | Floodlight |
| | | 38 | 69164 | 38PAR20H/SP10 | 120 | 6 | CC-8 | 3.13 | | 1500 | 1.4 | 490 | 3800 | 2850 | \$4.58 | 1a,2a,4f,4h,9a,10c | Spotlight |
| | | 38 | 69165 | 38PAR20H/FL25/P2 | 120 | 3 | CC-8 | 3.13 | | 3000 | 1.4 | 490 | 1450 | 2850 | \$4.58 | 1a,2a,4f,4h,9a,10c | Floodlight, Twin Pack |
| | | 38 | 69148 | 38PAR20HIR+/FL30 | 120 | 6 | CC-8 | 3.13 | | 3000 | 1.4 | 530 | 1300 | 2750 | \$4.58 | 1a,2a,4f,4h,9a,10c | HIR+, Floodlight |
| 38 | 69149 | 38PAR20HIR+/SP15 | 120 | 6 | CC-8 | 3.13 | | 3000 | 1.4 | 530 | 2600 | 2750 | \$4.58 | 1a,2a,4f,4h,9a,10c | HIR+, Spotlight | | |
| Halogen Compact PAR16 | | | | | | | | | | | | | | | | | |
| JDR16 | Med | 35 | 20641 | 35PAR16CURIO | 120 | 3 | CC-6V | 2.05 | | 3000 | 2.7 | | 2700 | 500 | | 1a,2a,2b,2e,4f,4i,4h,7a,9a,10b,10c | Curio cabinet |
|  | Med | 60 | 41623 | 60PAR16H/FL30 | 120 | 6 | CC-8 | 2.88 | | 2000 | 1.8 | 650 | 2950 | 1550 | | 1a,2a,4f,4h,9a,10c | Floodlight |
| | | 60 | 82142 | 60PAR16FL/RVL-CD | 120 | 6 | CC-8 | 2.88 | | 2000 | 1.8 | 485 | 2850 | | | 1a,2a,4f,4h,9a,10c | Reveal®, Floodlight, Carded |
| | | 75 | 41629 | 75PAR16H/FL30 | 120 | 6 | CC-8 | 2.88 | | 2000 | 1.8 | 900 | 2950 | 1600 | | 1a,2a,4f,4h,9a,10c | Floodlight |
| Compact PAR36 | | | | | | | | | | | | | | | | | |
| PAR36 | Scrw Term | 35 | 19873 | 35PAR36/H/SP5 | 12 | 12 | C-6 | 2.75 | | 4000 | | 250 | 3050 | 25000 | | 2a,2b,4f,4g,7a,9b,10c | Spotlight |
| | | | 19876 | 35PAR36/H/SP8 | 12 | 12 | C-6 | 2.75 | | 4000 | | 250 | 3050 | 8000 | | 2a,2b,4f,4g,7a,9b,10c | Spotlight |
| | | | 19877 | 35PAR36/H/FL30 | 12 | 12 | C-6 | 2.75 | | 4000 | | 250 | 3050 | 900 | | 2a,2b,4f,4g,7a,9b,10c | Floodlight |
| | | | 42072 | 35PAR36/H/WFL | 12 | 12 | C-6 | 2.75 | | 4000 | | 250 | 3050 | | | 2a,2b,4f,4g,7a,9b,10c | Wide Flood |
| | | 50 | 19878 | 50PAR36/H/SP5 | 12 | 12 | C-6 | 2.75 | | 4000 | | 400 | 3050 | 39000 | | 2a,2b,4f,4g,7a,9b,10c | Spotlight |
| | | | 19879 | 50PAR36/H/SP8 | 12 | 12 | C-6 | 2.75 | | 4000 | | 400 | 3050 | 10000 | | 2a,2b,4f,4g,7a,9b,10c | Spotlight |
| | | | 19880 | 50PAR36/H/FL30 | 12 | 12 | C-6 | 2.75 | | 4000 | | 400 | 3050 | 1300 | | 2a,2b,4f,4g,7a,9b,10c | Floodlight |
| | | | Halogen Reflector | | | | | | | | | | | | | | |
| HIR™ | | | | | | | | | | | | | | | | | |
| R20 | Med | 45 | 74204 | 45R20/H/HIR-TP6 | 120 | 6 | CC-8 | 3.54 | | 3000 | 2.7 | 490 | 2750 | | \$5.42 | — | Halogen Reflector |
| BR30 | Med | 45 | 74206 | 45BR30/H/HIR-TP6 | 120 | 6 | CC-8 | 5.37 | | 3000 | 2.7 | 640 | 2750 | | \$5.42 | 1a,1b,2a,2b,2e,4i,7a | Halogen Reflector |
| BR40 | Med | 45 | 74207 | 45BR40/H/HIR-TP6 | 120 | 6 | CC-8 | 6.56 | | 3000 | 2.7 | 740 | 2750 | | \$5.42 | 1a,1b,2a,2b,2e,4i,7a | Halogen Reflector |
| BR30 | Med | 65 | 75414 | 65BR30/H/RVL-TP | 120 | 6 | CC-8 | 5.37 | | 3000 | 2.7 | 485 | 2750 | | \$7.83 | 1a,1b,2a,2b,2e,4i,7a | Halogen Reflector |
| BR40 | Med | 65 | 77757 | 65BR40/H/HIR-TP6 | 120 | 6 | CC-8 | 6.56 | | 3000 | 2.7 | 1100 | 2800 | | \$7.83 | 1a,1b,2a,2b,2e,4i,7a | Halogen Reflector |
| A-Line/Decorative | | | | | | | | | | | | | | | | | |
| A-19 | | | | | | | | | | | | | | | | | |
|  | Med | 29 | 78795 | 29A/CL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 430 | 2850 | | \$3.49 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Clear, Halogen, 2-Pack |
| | | 29 | 62607 | 29A/CL/RVL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 325 | 2850 | | \$3.49 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Clear Reveal®, Halogen, 2-Pack |
| | | 29 | 63002 | 29A/W/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 430 | 2850 | | \$3.49 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Soft White, Halogen, 2-Pack |
| | | 29 | 66246 | 29A/W/H-4/12PK | 120 | 12 | CC-8 | 4.43 | | 1000 | 0.9 | 430 | 2850 | | \$3.49 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Soft White, Halogen, 4-Pack |
| | | 29 | 63006 | 29A/W/RVL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 325 | 2850 | | \$3.49 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Reveal®, Halogen, 2-Pack |
| | | 29 | 60285 | 29A/W/2X/H/4PK | 120 | 12 | CC-8 | 4.43 | | 2000 | 1.8 | 390 | 2800 | | \$3.49 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Modified Spectrum Soft White, Halogen, 4-Pack |
| | | 43 | 78796 | 43A/CL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 750 | 2900 | | \$5.18 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Clear, Halogen, 2-Pack |
| | | 43 | 62616 | 43A/CL/RVL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 565 | 2900 | | \$5.18 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Clear Reveal®, Halogen, 2-Pack |
| | | 43 | 63003 | 43A/W/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 620 | 2900 | | \$5.18 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Soft White, Halogen, 2-Pack |

* Based on 3 hours per day use.







** Based on 3 hours per day use, \$0.11 per Kwh

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | Filament Type | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Initial Lumens | Initial Color Temp | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|---|-----------|----------------|------------|-------------------|-------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|---------------------------------|---|---------------------------------|---|
| A-Line/Decorative (continued) | | | | | | | | | | | | | | | | | |
| A-19 (continued) | | | | | | | | | | | | | | | | | |
|  | Med | 43 | 66247 | 43A/W/H-4/12PK | 120 | 12 | CC-8 | 4.43 | | 1000 | 0.9 | 620 | 2900 | | \$5.18 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Soft White, Halogen, 4-Pack |
| | | 43 | 63007 | 43A/W/RVL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 565 | 2900 | | \$5.18 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Reveal®, Halogen, 2-Pack |
| | | 43 | 60071 | 43A/W/2X/H/4PK | 120 | 12 | CC-8 | 4.43 | | 2000 | 1.8 | 620 | 2750 | | \$5.18 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Modified Spectrum Soft White, Halogen, 4-Pack |
| | | 53 | 78797 | 53A/CL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 1050 | 2950 | | \$6.38 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Clear, Halogen, 2-Pack |
| | | 53 | 62617 | 53A/CL/RVL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 790 | 2950 | | \$6.38 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Clear Reveal®, Halogen, 2-Pack |
| | | 53 | 63004 | 53A/W/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 1050 | 2950 | | \$6.38 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Soft White, Halogen, 2-Pack |
| | | 53 | 66248 | 53A/W/H-4/12PK | 120 | 12 | CC-8 | 4.43 | | 1000 | 0.9 | 890 | 2950 | | \$6.38 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Soft White, Halogen, 4-Pack |
| | | 53 | 63008 | 53A/W/RVL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 790 | 3000 | | \$6.38 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Reveal®, Halogen, 2-Pack |
| | | 53 | 60070 | 53A/W/2X/H/4PK | 120 | 12 | CC-8 | 4.43 | | 2000 | 1.8 | 850 | 2750 | | \$6.38 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Modified Spectrum Soft White, Halogen, 4-Pack |
| | | 72 | 78798 | 72A/CL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 1490 | 3000 | | \$8.67 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Clear, Halogen, 2-Pack |
| | | 72 | 62618 | 72A/CL/RVL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 1120 | 3000 | | \$8.67 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Clear Reveal, Halogen, 2-Pack |
| | | 72 | 63005 | 72A/W/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 1270 | 3000 | | \$8.67 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Soft White, Halogen, 2-Pack |
| | | 72 | 66249 | 72A/W/H-4/12PK | 120 | 12 | CC-8 | 4.43 | | 1000 | 0.9 | 1270 | 3000 | | \$8.67 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Soft White, Halogen, 4-Pack |
| | | 72 | 63009 | 72A/W/RVL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 1120 | 3000 | | \$8.67 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Reveal®, Halogen, 2-Pack |
| 72 | 60035 | 72A/W/2X/H/4PK | 120 | 12 | CC-8 | 4.43 | | 2000 | 1.8 | 1270 | 2800 | | \$8.67 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Modified Spectrum Soft White, Halogen, 4-Pack | | |
| A-21 | | | | | | | | | | | | | | | | | |
|  | 3C Med | 30/70/100 | 24699 | 30/100-HALOGEN | 120 | 6 | CC-8 | 5.25 | | 2500 | 2.3 | 300/1050/1370 | 2900 | | \$12.05 | 1a,2a,2b,2c,4i,4j,9a,10b,10c | 3-Way |
| | | 50/100/150 | 81590 | 50/150-HALOGEN | 120 | 6 | CC-8 | 5.25 | | 2500 | 2.3 | 700/1600/2300 | 2900 | | \$18.07 | 1a,2a,2b,2c,4i,4j,9a,10b,10c | 3-Way |
| | | 50/100/150 | 71367 | 50/150/H/RVL-TP6 | 120 | 6 | CC-8 | 5.25 | | 2500 | 2.3 | 560/1280/1840 | 2850 | | \$18.07 | 1a,2a,2b,2c,4i,4j,9a,10b,10c | Reveal®, 3-Way |
| | Med | 150 | 71364 | 150A/W/RL/HAL-TP6 | 120 | 6 | CC-8 | 5.25 | | 2000 | 1.8 | 2650 | 2900 | | \$18.07 | 1a,2a,2b,2c,4i,4j,9a,10b,10c | Reader |
| Traditional Decorative | | | | | | | | | | | | | | | | | |
|  | Cand | 25 | 16764 | 25BC/H/CD2 | 120 | 5 | CC-8 | 3.94 | 2.22 | 2250 | 2.1 | 280 | 2700 | | \$3.01 | 1a,1b,2a,2b,2e,4i,4j,9a,10b,10c | Carded Twin Pack, Chandelier |
| | Med | 25 | 16760 | 25BM/H/CD2 | 120 | 5 | CC-8 | 3.94 | 2.22 | 2250 | 2.1 | 260 | 2600 | | \$3.01 | 1a,1b,2a,2b,2e,4i,4j,9a,10b,10c | Carded Twin Pack |
| | Med | 29 | 60269 | 29BM/H/CD2 | 120 | 3 | CC-8 | 3.94 | | 1000 | 0.9 | 430 | 2850 | | \$3.49 | 1a,1b,2a,2b,2e,4i,4j,9a,10b,10c | Carded Twin Pack |
| | Cand | 40 | 16765 | 40BC/H/CD2 | 120 | 5 | CC-8 | 3.94 | 2.22 | 2250 | 2.1 | 485 | 2700 | | \$4.82 | 1a,1b,2a,2b,2e,4i,4j,9a,10b,10c | Carded Twin Pack, Chandelier |
| | Med | 40 | 16761 | 40BM/H/CD2 | 120 | 5 | CC-8 | 3.94 | 2.22 | 2250 | 2.1 | 485 | 2700 | | \$4.82 | 1a,1b,2a,2b,2e,4i,4j,9a,10b,10c | Carded Twin Pack |
| | Med | 43 | 60271 | 43BM/H/CD2 | 120 | 3 | CC-8 | 3.94 | | 1000 | 0.9 | 750 | 2900 | | \$5.18 | 1a,1b,2a,2b,2e,4i,4j,9a,10b,10c | Carded Twin Pack |
| CA9 | Med | 29 | 60273 | 29CAM/H/CD2 | 120 | 3 | CC-8 | 4.56 | | 1000 | 0.9 | 430 | 2850 | | \$3.49 | 1a,1b,2a,2b,2e,4i,4j,9a,10b,10c | Carded Twin Pack |
| CA9 | Med | 43 | 60276 | 43CAM/H/CD2 | 120 | 3 | CC-8 | 4.56 | | 1000 | 0.9 | 750 | 2900 | | \$5.18 | 1a,1b,2a,2b,2e,4i,4j,9a,10b,10c | Carded Twin Pack |
| Flame | | | | | | | | | | | | | | | | | |
|  | Med | 25 | 16766 | 25BFM/H/CD2 | 120 | 5 | CC-8 | 3.94 | 2.22 | 2250 | 2.1 | 280 | 2600 | | \$3.01 | 1a,1b,2a,2b,2e,4i,4j,9a,10b,10c | Carded Twin Pack |
| | | 40 | 16767 | 40BFM/H/CD2 | 120 | 5 | CC-8 | 3.94 | 2.22 | 2250 | 2.1 | 350 | 2500 | | \$4.82 | 1a,1b,2a,2b,2e,4i,4j,9a,10b,10c | Carded Twin Pack |

* Based on 3 hours per day use.
 ** Based on 3 hours per day use, \$0.11 per Kwh

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4. All warning and caution notices found at the end of this section (page 2-17).

Halogen Lamps

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | Filament Type | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Initial Lumens | Initial Color Temp | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|--|--------------|-------|------------------|------------------|-------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|--------|------------------------------------|---------------------------------|------------------------|
| A-Line/Decorative (continued) | | | | | | | | | | | | | | | | | |
| Globe | | | | | | | | | | | | | | | | | |
|  | Cand | 40 | 82131 | 40GC/CL/H-PQ2/3 | 120 | 6 | CC-8 | 3 | | 2250 | 2.1 | 415 | 2500 | | \$4.82 | 1a,1b,2a,2b,2e,4i,4j,7a,10b,10c | Clear, Halogen Globe |
| | | 60 | 82132 | 60GC/CL/H-PQ2/3 | 120 | 6 | CC-8 | 3 | | 2250 | 2.1 | 600 | 2500 | | \$7.23 | 1a,1b,2a,2b,2e,4i,4j,7a,10b,10c | Clear, Halogen Globe |
|  | Med | 40 | 82133 | 40GM/CL/H-PQ2/3 | 120 | 6 | CC-8 | 3 | | 2250 | 2.1 | 415 | 2700 | | \$4.82 | 1a,1b,2a,2b,2e,4i,4j,7a,10b,10c | Clear, Halogen Globe |
| | | 60 | 82134 | 60GM/CL/H-PQ2/3 | 120 | 6 | CC-8 | 3 | | 2250 | 2.1 | 650 | 2850 | | \$7.23 | 1a,1b,2a,2b,2e,4i,4j,7a,10b,10c | Clear, Halogen Globe |
|  | Med | 29 | 60100 | 29G25/H/CL | 120 | 3 | CC-8 | 4.45 | | 1000 | 0.9 | 430 | 2850 | | \$3.49 | 1a,1b,2a,2b,2e,4i,4j,9c,10b,10c | Halogen, Clear Globe |
| | | 60199 | 29G25/H/W | 120 | 3 | CC-8 | 4.45 | | 1000 | 0.9 | 430 | 2850 | | \$3.49 | 1a,1b,2a,2b,2e,4i,4j,9c,10b,10c | Halogen, White Globe | |
| | 40 | 82140 | 40G25/CL/H/RVL | 120 | 6 | CC-8 | 4.50 | 2.60 | 2250 | 2.1 | 470 | 2550 | | \$4.82 | 1a,1b,2a,2b,2e,4i,4j,9c,10b,10c | Halogen, Clear Globe | |
| | | 16774 | 40G25/H/CRYSTAL | 120 | 6 | CC-8 | 4.45 | 2.60 | 2250 | 2.1 | 520 | 2700 | | \$4.82 | 1a,1b,2a,2b,2e,4i,4j,9c,10b,10c | Crystal Clear Globe | |
| | | 71373 | 40G25H/CRY/RV-TP | 120 | 6 | CC-8 | 4.45 | 2.56 | 2250 | 2.1 | 390 | 2550 | | \$4.82 | 1a,1b,2a,2b,2e,4i,4j,7a,9c,10b,10c | Reveal®, Crystal Globe | |
| | 43 | 60076 | 43G25/H/CL | 120 | 3 | CC-8 | 4.45 | | 1000 | 0.9 | 750 | 2900 | | \$5.18 | 1a,1b,2a,2b,2e,4i,4j,9c,10b,10c | Halogen, Clear Globe | |
| | | 60109 | 43G25/H/W | 120 | 3 | CC-8 | 4.45 | | 1000 | 0.9 | 750 | 2900 | | \$5.18 | 1a,1b,2a,2b,2e,4i,4j,9c,10b,10c | Halogen, White Globe | |
| | 60 | 82141 | 60G25/CL/H/RVL | 120 | 6 | CC-8 | 4.50 | 2.60 | 2250 | 2.1 | 675 | 2850 | | \$7.23 | 1a,1b,2a,2b,2e,4i,4j,9c,10b,10c | Reveal®, Halogen Globe | |
| T-Shape | | | | | | | | | | | | | | | | | |
|  | Med | 40 | 16777 | 40T10/H/CD | 120 | 4 | CC-8 | 5.04 | 2.56 | 2250 | 2.1 | 520 | 2700 | | \$4.82 | 1a,1b,2a,2b,2e,4i,4j,9c,10b,10c | Carded |
| | | 60 | 16778 | 60T10/H/CD | 120 | 4 | CC-8 | 5.04 | 2.56 | 2250 | 2.1 | 900 | 2900 | | \$7.23 | 1a,1b,2a,2b,2e,4i,4j,9c,10b,10c | Carded |
| Landscape Lighting | | | | | | | | | | | | | | | | | |
| MR16 | 2-Pin GX5-3 | 20 | 71485 | Q20MR16/LAND-CD | 12 | 3 | C-6 | 1.88 | | 2000 | | 275 | 2900 | 450 | \$2.41 | | Outdoor Floodlight |
| T3 | 2-Pin G4 | 20 | 71495 | Q20T3/LAND-CD2 | 12 | 25 | C-8 | 1.25 | 0.75 | 2000 | | 350 | 2750 | | \$2.41 | | Outdoor |
| | 2-Pin GY6.35 | 50 | 71496 | Q50T3/LAND-CD2 | 12 | 25 | C-8 | 1.75 | 1.13 | 3000 | | 900 | 2950 | | \$6.02 | | Outdoor |
| AR70 | | | | | | | | | | | | | | | | | |
| AR70 | DCBay Ba15d | 50 | 72255 | 50AR70/SP8 | 12 | 10 | C-8 | 2.64 | | 3000 | | | 2800 | 12500 | | 2e,4a,4e,4f,9a,9d,10b,10c | Spotlight |
| AR111 | | | | | | | | | | | | | | | | | |
|  | G53 | 35 | 72253 | 35AR111/SP4 | 12 | 10 | C-8 | 2.64 | | 3000 | | | 2800 | 22000 | | 2a,4a,4e,4f,9a,9d,10b,10c | Narrow Spotlight |
| | | 35 | 97532 | 35AR111/SP8 | 12 | 10 | C-8 | 2.64 | | 3000 | | | 2800 | 14000 | | 2a,2j,4a,4e,4f,9a,9d,10b,10c | Spotlight |
| | | 35 | 97533 | 35AR111/FL24 | 12 | 10 | C-8 | 2.64 | | 3000 | | | 2800 | 2500 | | 2a,2j,4a,4e,4f,9a,9d,10b,10c | Narrow Floodlight |
| | | 50 | 72254 | 50AR111/SP4 | 12 | 10 | C-8 | 2.64 | | 3000 | | | 2850 | 25000 | | 2a,4a,4e,4f,9a,9d,10b,10c | Narrow Spotlight |
| | | 50 | 97534 | 50AR111/SP8 | 12 | 10 | C-8 | 2.64 | | 3000 | | | 2800 | 17800 | | 2a,2j,4a,4e,4f,9a,9d,10b,10c | Spotlight |
| | | 50 | 97535 | 50AR111/FL24 | 12 | 10 | C-8 | 2.64 | | 3000 | | | 2800 | 3500 | | 2a,2j,4a,4e,4f,9a,9d,10b,10c | Narrow Floodlight |
| | | 75 | 97536 | 75AR111/SP8 | 12 | 10 | C-8 | 2.64 | | 3000 | | | 2900 | 23500 | | 2a,2j,4a,4e,4f,9a,9d,10b,10c | Spotlight |
| | | 75 | 97537 | 75AR111/FL24 | 12 | 10 | C-8 | 2.64 | | 3000 | | | 2900 | 5300 | | 2a,2j,4a,4e,4f,9a,9d,10b,10c | Narrow Floodlight |
| | | 75 | 97538 | 75AR111/FL45 | 12 | 10 | C-8 | 2.64 | | 3000 | | | 2900 | 1700 | | 2a,2j,4a,4e,4f,9a,9d,10b,10c | Wide Floodlight |
| MR | | | | | | | | | | | | | | | | | |
| Turn & Lock ConstantColor® | | | | | | | | | | | | | | | | | |
|  | TAL GU7 | 35 | 81282 | 35MR16/6/TL-AX | 12 | 10 | C-8 | 1.88 | | 3500 | | 475 | 3200 | 8500 | | | |
| | | 35 | 78816 | 35MR16/Q/8/TL-AX | 12 | 10 | C-8 | 2.00 | | 3500 | | | 2900 | | | 2a,2b,4f,7a,9a,10b,10c | Narrow Spot |
| | | 50 | 30901 | 50MR16/Q/10/TL | 12 | 10 | C-6 | 2.00 | | 3500 | | | 3000 | 10800 | | 2a,2b,4f,7a,9a,10b,10c | Narrow Spot |
| | | 50 | 30900 | 50MR16/Q/20/TL | 12 | 10 | C-6 | 2.00 | | 3500 | | | 3000 | 3330 | | 2a,2b,4f,7a,9a,10b,10c | Narrow Flood |
| | | 50 | 30899 | 50MR16/Q/40/TL | 12 | 10 | C-6 | 2.00 | | 3500 | | | 3000 | 1395 | | 2a,2b,4f,7a,9a,10b,10c | Floodlight |


* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh


| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | Filament Type | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Initial Lumens | Initial Color Temp | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|------------|-----------|-------|------------|-------------|-------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|------|--------------------------|-----------------------------|------------------------|
|------------|-----------|-------|------------|-------------|-------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|------|--------------------------|-----------------------------|------------------------|

MR (continued)


ConstantColor® Precise™ Cover Glass MR16

| | | | | | | | | | | | | | | | | | |
|---|-------------|----|-------|------------------|----|----|------|------|--|------|-----|-----|------|-------|--------|-----------------|---------------------------------|
|  | 2-Pin GU5.3 | 20 | 20858 | Q20MR16C/CG15ESX | 12 | 20 | C-6 | 1.88 | | 5000 | 4.6 | 225 | 2900 | 3150 | | 2a,2b,4f,9a,10c | Narrow Spot, ANSI: ESX |
| | | 20 | 20857 | Q20MR16C/CG40BAB | 12 | 20 | C-6 | 1.88 | | 5000 | 4.6 | 225 | 2900 | 475 | \$2.41 | 2a,2b,4f,9a,10c | Flood, ANSI: BAB |
| | | 20 | 21456 | FAM6Q20MR16NSCCG | 12 | 1 | C-6 | 1.88 | | 5000 | 4.6 | | 2900 | 3350 | \$2.41 | 2a,2b,4f,9a,10c | Narrow Spot, Carved, ANSI: ESX |
| | | 20 | 21455 | FAM6Q20MR16FLCCG | 12 | 1 | C-6 | 1.88 | | 5000 | 4.6 | | 2900 | 490 | \$2.41 | 2a,2b,4f,9a,10c | Flood, Carved, ANSI: BAB |
| | | 35 | 20864 | Q35MR16C/CG12 | 12 | 20 | C-6 | 1.88 | | 5000 | | | 3000 | 7500 | | 2a,2b,4f,9a,10c | Narrow Spot, ANSI: FRB |
| | | 35 | 20860 | Q35MR16C/CG20 | 12 | 20 | C-6 | 1.88 | | 5000 | 4.6 | 520 | 3000 | 3200 | \$4.22 | 2a,2b,4f,9a,10c | Spot, ANSI: FRA |
| | | 35 | 20859 | Q35MR16C/CG40 | 12 | 20 | C-6 | 1.88 | | 5000 | 4.6 | 520 | 3000 | 900 | \$4.22 | 2a,2b,4f,9a,10c | Flood, ANSI: FMW |
| | | 35 | 41487 | Q35MR16/CCG40 | 24 | 20 | CC-6 | 1.88 | | 4000 | | | 2950 | 920 | | 2a,2b,4f,9a,10c | Floodlight |
| | | 50 | 20872 | Q50MR16C/CG15 | 12 | 20 | C-6 | 1.88 | | 6000 | | | 3050 | 8400 | | 2a,2b,4f,9a,10c | Narrow Spot, ANSI: EXT |
| | | 50 | 20871 | Q50MR16C/CG25 | 12 | 20 | C-6 | 1.88 | | 6000 | | | 3050 | 2900 | | 2a,2b,4f,9a,10c | Narrow Spot, ANSI: EXZ |
| | | 50 | 20867 | Q50MR16C/CG40 | 12 | 20 | C-6 | 1.88 | | 6000 | | | 3050 | 1500 | | 2a,2b,4f,9a,10c | Flood, ANSI: EXN |
| | | 50 | 20865 | Q50MR16C/CG55 | 12 | 20 | C-6 | 1.88 | | 6000 | 5.5 | 775 | 3050 | 850 | \$6.02 | 2a,2b,4f,9a,10c | Wide Flood, ANSI: FNV |
| | | 50 | 41488 | Q50MR16/CCG15 | 24 | 20 | CC-6 | 1.88 | | 2000 | 1.8 | 575 | 2950 | 8400 | \$6.02 | 2a,2b,4f,9a,10c | Narrow Spot |
| | | 50 | 41489 | Q50MR16/CCG40 | 24 | 20 | CC-6 | 1.88 | | 2000 | 1.8 | 615 | 2950 | 1570 | \$6.02 | 2a,2b,4f,9a,10c | Floodlight |
| | | 50 | 21458 | FAM6Q50MR16NSCCG | 12 | 1 | C-6 | 1.88 | | 6000 | | | 3050 | 9500 | | 2a,2b,4f,9a,10c | Narrow Spot, Carved, ANSI: EXT |
| | | 50 | 21457 | FAM6Q50MR16FLCCG | 12 | 1 | C-6 | 1.88 | | 6000 | | | 3050 | 1720 | | 2a,2b,4f,9a,10c | Flood, 3050K, Carved, ANSI: EXN |
| | | 71 | 20876 | Q71MR16C/CG15 | 12 | 20 | C-6 | 1.88 | | 4000 | | | 3050 | 10800 | | 2a,2b,4f,9a,10c | Narrow Spot, ANSI: EYF |
| | | 71 | 20874 | Q71MR16C/CG25 | 12 | 20 | C-6 | 1.88 | | 4000 | | | 3050 | 4550 | | 2a,2b,4f,9a,10c | Narrow Spot, ANSI: EYJ |
| | | 71 | 20873 | Q71MR16C/CG40 | 12 | 20 | C-6 | 1.88 | | 4000 | | | 3050 | 2000 | | 2a,2b,4f,9a,10c | Flood, ANSI: EYC |

ConstantColor® Precise™ MR16

| | | | | | | | | | | | | | | | | | |
|--|-------------|----|-------|-----------------|----|----|------|------|--|------|-----|------|------|-------|--------|---------------------------------|-----------------------------|
|  | 2-Pin GX5.3 | 20 | 20816 | Q20MR16C/VNSP7 | 12 | 20 | CC-6 | 1.88 | | 3000 | | | 2900 | 7400 | | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Very Narrow Spot, ANSI: EZX |
| | | 20 | 20815 | Q20MR16C/VNSP15 | 12 | 20 | C-6 | 1.88 | | 5000 | | | 2900 | 3750 | | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Narrow Spot, ANSI: ESX |
| | | 20 | 20814 | Q20MR16C/FL40 | 12 | 20 | C-6 | 1.88 | | 5000 | 4.6 | 240 | 2900 | 525 | \$2.41 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Flood, ANSI: BAB |
| | | 35 | 20826 | Q35MR16C/SP20 | 12 | 20 | C-6 | 1.88 | | 5000 | 4.6 | 520 | 3000 | 3900 | \$4.22 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Spot, ANSI: FRA |
| | | 35 | 20825 | Q35MR16C/FL40 | 12 | 20 | C-6 | 1.88 | | 5000 | 4.6 | 520 | 3000 | 1000 | \$4.22 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Flood, ANSI: FMW |
| | | 42 | 20830 | Q42MR16C/VNSP9 | 12 | 20 | CC-6 | 1.88 | | 3500 | | | 3000 | 12300 | | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Very Narrow Spot, ANSI: EYZ |
| | | 50 | 20839 | Q50MR16C/VNSP15 | 12 | 20 | C-6 | 1.88 | | 6000 | 5.5 | 750 | 3050 | 9100 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Narrow Spot, ANSI: EXT |
| | | 50 | 20835 | Q50MR16C/NFL25 | 12 | 20 | C-6 | 1.88 | | 6000 | 5.5 | 800 | 3050 | 3200 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Narrow Flood, ANSI: EXZ |
| | | 50 | 20834 | Q50MR16C/NFL30 | 12 | 20 | C-6 | 1.88 | | 6000 | 5.5 | 850 | 3050 | 2500 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Narrow Flood, ANSI: EXK |
| | | 50 | 20833 | Q50MR16C/FL40 | 12 | 20 | C-6 | 1.88 | | 6000 | 5.5 | 800 | 3050 | 1700 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Flood, ANSI: EXN |
| | | 50 | 20832 | Q50MR16C/WFL55 | 12 | 20 | C-6 | 1.88 | | 6000 | 5.5 | 825 | 3050 | 900 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Wide Flood, ANSI: FNV |
| | | 71 | 20843 | Q71MR16C/VNSP15 | 12 | 20 | C-6 | 1.88 | | 4000 | 3.7 | 1125 | 3050 | 11500 | \$8.55 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Narrow Spot, ANSI: EYF |
| | | 71 | 20841 | Q71MR16C/NFL25 | 12 | 20 | C-6 | 1.88 | | 4000 | 3.7 | 1175 | 3050 | 5500 | \$8.55 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Narrow Flood, ANSI: EYJ |
| | | 71 | 20840 | Q71MR16C/FL40 | 12 | 20 | C-6 | 1.88 | | 4000 | 3.7 | 1200 | 3050 | 2200 | \$8.55 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Flood, ANSI: EYC |

Precise™ Cover Glass IR MR16

| | | | | | | | | | | | | | | | | | |
|---|-------------|------|-------------|------------------|-------|------------------|-----|------|-----|------|--|------|------|-------|------|-----------------|--------------|
|  | 2-Pin GU5.3 | 20 | 77900 | Q20MR16HIR/CCG10 | 12 | 20 | C-8 | 1.77 | | 5000 | | | 2900 | 6000 | | 2a,2b,4f,9a,10c | Narrow Spot |
| | | 20 | 77901 | Q20MR16HIR/CCG24 | 12 | 20 | C-8 | 1.77 | | 5000 | | | 2900 | 2300 | | 2a,2b,4f,9a,10c | Narrow Flood |
| | | 20 | 77902 | Q20MR16HIR/CCG35 | 12 | 20 | C-8 | 1.77 | | 5000 | | | 2900 | 1000 | | 2a,2b,4f,9a,10c | Flood |
| | | 35 | 77904 | Q35MR16HIR/CCG10 | 12 | 20 | C-8 | 1.77 | | 5000 | | | 2950 | 12000 | | 2a,2b,4f,9a,10c | Narrow Spot |
| | | 35 | 77905 | Q35MR16HIR/CCG24 | 12 | 20 | C-8 | 1.77 | | 5000 | | | 2950 | 4200 | | 2a,2b,4f,9a,10c | Narrow Flood |
| | | 35 | 77906 | Q35MR16HIR/CCG35 | 12 | 20 | C-8 | 1.77 | | 5000 | | | 2950 | 2000 | | 2a,2b,4f,9a,10c | Flood |
| | | 35 | 79233 | Q35MR16HIR/CCG55 | 12 | 20 | C-8 | 1.77 | | 5000 | | | 2950 | 1000 | | 2a,2b,4f,9a,10c | Wide Flood |
| | | 45 | 77907 | Q45MR16HIR/CCG10 | 12 | 20 | C-8 | 1.77 | | 5000 | | | 3000 | 14000 | | 2a,2b,4f,9a,10c | Narrow Spot |
| | | 45 | 77908 | Q45MR16HIR/CCG24 | 12 | 20 | C-8 | 1.77 | | 5000 | | | 3000 | 5200 | | 2a,2b,4f,9a,10c | Narrow Flood |
| | | MR16 | 2-Pin GX5.3 | 45 | 77909 | Q45MR16HIR/CCG35 | 12 | 20 | C-8 | 1.77 | | 5000 | | | 3000 | 2300 | |








* Based on 3 hours per day use.
 ** Based on 3 hours per day use, \$0.11 per Kwh

Halogen Lamps

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | Filament Type | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Initial Lumens | Initial Color Temp | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|---|-------------|-------|------------|-------------------|-------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|------|--------------------------|----------------------------------|-----------------------------|
| MR (continued) | | | | | | | | | | | | | | | | | |
| Standard MR16 | | | | | | | | | | | | | | | | | |
|  | 2-Pin GX5.3 | 20 | 25481 | Q20MR16/SP | 12 | 20 | C-6 | 1.88 | | 2000 | 1.8 | 275 | 2900 | 3500 | \$2.41 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Spot, ANSI: ESX |
| | | 20 | 25480 | Q20MR16/FL | 12 | 20 | C-6 | 1.88 | | 2000 | 1.8 | 275 | 2900 | 500 | \$2.41 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Flood, ANSI: BAB |
| | | 20 | 85290 | Q20MR16/SP-PQ3/6 | 12 | 6 | C-6 | 1.88 | | 2000 | 1.8 | 290 | 2900 | 3500 | \$2.41 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Spotlight, ANSI: ESX |
| | | 20 | 85289 | Q20MR16/FL-PQ3/6 | 12 | 6 | C-6 | 1.88 | | 2000 | 1.8 | 290 | 2900 | 500 | \$2.41 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Floodlight ANSI: BAB |
| | | 50 | 25483 | Q50MR16/SP | 12 | 20 | C-6 | 1.88 | | 2000 | 1.8 | 890 | 2900 | 9500 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Spot, ANSI: EXT |
| | | 50 | 25482 | Q50MR16/FL | 12 | 20 | C-6 | 1.88 | | 2000 | 1.8 | 890 | 2900 | 1500 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Flood, ANSI: EXN |
| | | 50 | 85296 | Q50MR16/FL-PQ3/6 | 12 | 6 | C-6 | 1.88 | | 2000 | 1.8 | 890 | 2900 | 9500 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Flood, ANSI: EXN |
| | | 50 | 85297 | Q50MR16/SP-PQ3/6 | 12 | 6 | C-6 | 1.88 | | 2000 | 1.8 | 890 | 2900 | 1500 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Spot, ANSI: EXT |
| Standard MR16 Cover Glass | | | | | | | | | | | | | | | | | |
|  | 2-Pin GX5.3 | 20 | 81763 | Q20MR16CGFLCD-BA | 12 | 6 | C-6 | 1.88 | | 2000 | 1.8 | 275 | 2900 | 450 | \$2.41 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Flood, Basic |
| | | 20 | 81765 | Q20MR16CGSPCD-BA | 12 | 6 | C-6 | 1.88 | | 2000 | 1.8 | 275 | 2900 | 3150 | \$2.41 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Spot, Basic |
| | | 35 | 81768 | Q35MR16CGFLCD-BA | 12 | 6 | C-6 | 1.88 | | 2000 | 1.8 | 540 | 2900 | 840 | \$4.22 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Flood, Basic |
| | | 50 | 81770 | Q50MR16CGFLCD-BA | 12 | 6 | C-6 | 1.88 | | 2000 | 1.8 | 850 | 2900 | 1350 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Flood, Basic |
| | | 50 | 81771 | Q50MR16CGSPCD-BA | 12 | 6 | C-6 | 1.88 | | 2000 | 1.8 | 850 | 2900 | 8550 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Spot, Basic |
|  | 2-Pin GX5.3 | 50 | 82110 | Q50MR16FCCGRV-CD | 12 | 6 | C-6 | 1.88 | | 3000 | 2.7 | 650 | 2950 | 1750 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Reveal®, Floodlight, Carded |
| | | 50 | 82111 | Q50MR16SCCGRV-CD | 12 | 6 | C-6 | 1.88 | | 3000 | 2.7 | 650 | 2950 | 9000 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Reveal®, Spotlight, Carded |
| Standard MR11 | | | | | | | | | | | | | | | | | |
|  | 2-Pin G4 | 20 | 30773 | Q20MR11/NFL30 | 12 | 10 | C-6 | 1.38 | | 3500 | | | 2900 | 600 | | 2a,2b,4c,4e,4f,9a,9d,10b,10c,11a | Narrow Flood, ANSI: FTD |
| | | 20 | 25197 | FAM6Q20MR11NF/CD | 12 | 1 | C-6 | 1.38 | | 3500 | | | 2900 | 600 | | 2a,2b,4c,4e,4f,9a,9d,10b,10c,11a | Narrow Flood, ANSI: FTD |
| | | 35 | 30774 | Q35MR11SP20(FTF) | 12 | 10 | C-6 | 1.38 | | 3500 | | | 2900 | 3000 | | 2a,2b,4c,4e,4f,9a,9d,10b,10c,11a | Spot, ANSI: FTF |
| | | 35 | 30890 | Q35MR11NFL30(FTH) | 12 | 10 | C-6 | 1.38 | | 3500 | | | 2900 | 1300 | | 2a,2b,4c,4e,4f,9a,9d,10b,10c,11a | Narrow Flood, ANSI: FTH |
| | | 35 | 41483 | Q35MR11/CG12 24 | 24 | 50 | C-6 | 1.38 | | 2000 | | | 2950 | 4100 | | 2a,2b,4c,4f,9a,10c | Spot |
| 120V GU10 | | | | | | | | | | | | | | | | | |
|  | GU10 | 20 | 16753 | Q20GU10/FL/CD | 120 | 5 | CC-2V | 2.13 | | 2000 | 1.8 | 80 | 2600 | 230 | \$2.41 | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Flood Carded |
| | | 35 | 16752 | Q35GU10/FL/CD | 120 | 5 | CC-2V | 2.13 | | 3000 | 2.7 | 200 | 2650 | 500 | \$4.22 | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Flood Carded |
| | | 50 | 16751 | Q50GU10/FL/CD | 120 | 5 | CC-2V | 2.13 | | 3000 | 2.7 | 400 | 2750 | 1000 | \$6.02 | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Flood Carded |
| | | 50 | 82143 | Q50GU10FL/RVL-CD | 120 | 6 | CC-2V | 2.13 | | 3000 | 2.7 | 400 | 2750 | 400 | \$6.02 | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Reveal®, Floodlight, Carded |
| Quartz Halogen | | | | | | | | | | | | | | | | | |
| Low Voltage | | | | | | | | | | | | | | | | | |
|  | 2-Pin G4 | 5 | 42959 | Q5T3/CL | 12 | 100 | C-6 | 1.25 cm | 0.75 | 2000 | 1.8 | 60 | | | \$0.60 | 2a,2j,4c,4e,4f,9a,9d,10b,10c | Clear |
| | | 10 | 34674 | Q10T3/CL | 12 | 100 | C-6 | 1.25 cm | 0.75 | 2000 | 1.8 | 140 | | | \$1.20 | | Clear |
| | | 10 | 97668 | Q10T3/CL/SCD-5PK | 12 | 100 | C-6 | 1.25 cm | 0.75 | 2000 | 1.8 | 140 | | | \$1.20 | 2a,2j,4c,4e,4f,9a,9d,10b,10c | Display lights, Small Card |
| | | 20 | 34715 | Q20T2.5/12V/CL | 12 | 100 | C-6 | 1.25 cm | 0.75 | 2000 | 1.8 | 350 | | | \$2.41 | | Clear, 12V |
| | | 20 | 97669 | Q20T3/CL/SCD-5PK | 12 | 25 | C-6 | 1.25 cm | 0.75 | 2000 | 1.8 | 350 | | | \$2.41 | 2a,2j,4c,4e,4f,9a,9d,10b,10c | Display lights, Small Card |





* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | Filament Type | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Initial Lumens | Initial Color Temp | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|---|---------------|-------|------------|------------------|---------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|------|--------------------------|--|------------------------|
| Quartz Halogen (continued) | | | | | | | | | | | | | | | | | |
| Low Voltage (continued) | | | | | | | | | | | | | | | | | |
|  | 2-Pin GY6.35 | 35 | 34708 | Q35T3/12V/CL | 12 | 100 | C-6 | 1.75 cm | | 2000 | 1.8 | 550 | | | \$4.22 | 2a,2j,4c,4e,4f,9a,9d,10b,10c | Clear, 12V |
| | | 35 | 48503 | Q35T3/CL/CD 5PK | 12 | 25 | C-6 | 1.75 cm | | 2000 | 1.8 | 550 | | | \$4.22 | 2a,2j,4c,4e,4f,9a,9d,10b,10c | Clear Carded |
| | | 50 | 34702 | Q50T3/12V/CL | 12 | 100 | C-6 | 1.75 cm | | 2000 | 1.8 | 850 | | | \$6.02 | 2a,2j,4c,4e,4f,9a,9d,10b,10c | Clear, 12V |
|  | 2-Pin GY6.35 | 50 | 97670 | Q50T3/CL/SCD-5PK | 12 | 25 | C-6 | 1.75 cm | 1.13 | 2000 | 1.8 | 950 | | | \$6.02 | 2a,2j,4c,4e,4f,9a,9d,10b,10c | Display lights |
| | | 75 | 19377 | Q75T4/CL/CD 5PK | 12 | 25 | C-6 | 1.75 cm | 1.13 | 2000 | 1.8 | 1400 | | | \$9.03 | 2a,2j,4c,4e,4f,9a,9d,10b,10c | Clear, Carded |
|  | 2-Pin GY6.35 | 100 | 34676 | Q100T3/12V/CL | 12 | 100 | CC-6 | 1.75 cm | | 2000 | 1.8 | 2350 | | | \$12.05 | 2a,2j,4c,4e,4f,9a,9d,10b,10c | Clear, 12V |
| | | 100 | 34663 | Q100T3/24V/CL | 24 | 100 | CC-6 | 1.75 cm | | 2000 | 1.8 | 2000 | | | \$12.05 | 2a,2j,4c,4e,4f,9a,9d,10b,10c | Clear, 24V |
| High Voltage | | | | | | | | | | | | | | | | | |
|  | 2-Pin G8 | 25 | 97664 | Q25G8/SCD2 | 120 | 5 | CC-2V | 1.59 | 1.04 | 1500 | 1.4 | 240 | 2600 | | \$3.01 | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Small Card, Twin Pack |
| | | 35 | 48428 | Q35G8/CD2 | 120 | 5 | CC-2V | 1.77 | 1.34 | 1500 | 1.4 | 350 | 2600 | | \$4.22 | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Carded |
| | | 50 | 21941 | Q50G8/CD | 120 | 5 | CC-2V | 1.77 | 1.33 | 1300 | 1.2 | 700 | 2750 | | \$6.02 | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Carded |
| | | 50 | 97665 | Q50G8/SCD | 120 | 5 | CC-2V | 1.77 | 1.33 | 1300 | 1.2 | 700 | 2750 | | \$6.02 | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Small Card |
| | | 50 | 72868 | Q50G8/SCD2-PK5 | 120 | 5 | CC-2V | 1.77 | 1.33 | 1300 | 1.2 | 700 | 2750 | | \$6.02 | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Small Card, Twin Pack |
| | | 75 | 97666 | Q75G8/SCD | 120 | 5 | CC-2V | 1.77 | 1.34 | 1500 | 1.4 | 900 | 2850 | | \$9.03 | 1a,2a,2b,2e,4f,4i,7a,9a,10b,10c | Small Card |
| | | 75 | 47801 | Q75G8/CD | 120 | 5 | CC-2V | 1.77 | 1.34 | 1500 | 1.4 | 900 | 2850 | | \$9.03 | 1a,2a,2b,2e,4f,4i,7a,9a,10b,10c | Carded |
| | | 100 | 97667 | Q100G8/SCD | 120 | 5 | CC-2V | 1.77 | 1.34 | 1500 | 1.4 | 1300 | 2900 | | \$12.05 | 1a,2a,2b,2e,4f,4i,7a,9a,10b,10c | Small Card |
| Quartzline® | | | | | | | | | | | | | | | | | |
| HIR™ Recessed Single Contact (R7s) | | | | | | | | | | | | | | | | | |
|  | R7s | 350 | 13894 | Q350T3/CL/HIR | 120 | 6 | C-8 | 4.69 | 2.25 | 2000 | | 10000 | 3075 | | | 1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b | IR, Clear, Horizontal |
| Halogen G9 | | | | | | | | | | | | | | | | | |
|  | G9 | 25 | 16754 | Q25G9/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 3000 | | 240 | 6250 | | | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Carded |
| | | 25 | 81300 | Q25G9/F/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 3000 | | | | | | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Frosted, Carded |
| | | 40 | 16755 | Q40G9/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 3000 | | 480 | 2750 | | | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Carded |
| | | 40 | 81301 | Q40G9/F/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 3000 | | | | | | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Frosted, Carded |
| | | 60 | 16756 | Q60G9/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 3000 | | 780 | 2800 | | | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Carded |
| | | 60 | 81468 | Q60G9/F/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 3000 | | | | | | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Frosted, Carded |
| | | 75 | 16759 | Q75G9/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 3000 | | 1100 | 2850 | | | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Carded |
| | | 75 | 81469 | Q75G9/F/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 3000 | | | | | | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Frosted, Carded |
| Halogen Double Contact Bayonet (BA15d) | | | | | | | | | | | | | | | | | |
|  | D C Bay BA15d | 100 | 16451 | Q100DC | 120 | 6 | CC-8 | 2.44 | 1.38 | 2000 | | 1550 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Frosted |
| | | 100 | 15508 | Q100CL/DC | 120 | 6 | CC-8 | 2.44 | 1.38 | 2000 | | 1600 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Clear |
| | | 100 | 44386 | Q100CL/DC/2V | 120 | 6 | CC-2V | 2.44 | 1.38 | 750 h | | 1800 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Clear |
| | | 150 | 44653 | Q150DC | 120 | 6 | CC-8 | 2.50 | 1.38 | 2000 | | 2700 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Frosted |
| | | 150 | 43693 | Q150CL/DC | 120 | 6 | CC-8 | 2.50 | 1.38 | 2000 | | 2800 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Clear |
| | | 150 | 44384 | Q150CL/DC/2V | 120 | 6 | CC-2V | 2.44 | 1.38 | 1000 | | 2800 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Clear |
| | | 250 | 43701 | Q250DC | 120 | 6 | CC-8 | 3.00 | 1.63 | 2000 | | 4850 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Frosted |
| | | 250 | 43702 | Q250DC | 130/120 | 6 | CC-8 | 3.00 | 1.63 | 2000 | | 4850 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Frosted |







* Based on 3 hours per day use.
 ** Based on 3 hours per day use, \$0.11 per Kwh

Halogen Lamps

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | Filament Type | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Initial Lumens | Initial Color Temp | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|--|---------------|-------|------------|--------------------|---------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|------|--------------------------|--|---|
| Quartzline® (continued) | | | | | | | | | | | | | | | | | |
| Halogen Double Contact Bayonet (BA15d) (continued) | | | | | | | | | | | | | | | | | |
|  | D C Bay BA15d | 250 | 43697 | Q250CL/DC | 120 | 6 | CC-8 | 3.00 | 1.63 | 2000 | | 5000 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Clear |
| | | 250 | 43698 | Q250CL/DC | 130/120 | 6 | CC-8 | 3.00 | 1.63 | 2000 | | 5000 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Clear |
| | | 500 | 43709 | Q500DC | 120 | 6 | CC-8 | 3.44 | 2.13 | 2000 | | 10100 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Frosted |
| | | 500 | 43710 | Q500CL/DC | 120 | 6 | CC-8 | 3.44 | 2.13 | 2000 | | 10450 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Clear |
| Halogen Recessed Single Contact (R7s) | | | | | | | | | | | | | | | | | |
|  | R7s | 100 | 73286 | Q100T3/SCD-5PK | 210 | 5 | C-8 | 3.13 | 1.25 | 1500 | | 1650 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,11a | Torchiere, Motion-Sensing and Security, Small Card |
| | | 100 | 22489 | Q100T3/CL/CD 5PK | 210 | 60 | C-8 | 3.13 | 1.25 | 1500 | | 1650 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Horizontal, Carded |
| | | 150 | 27449 | Q150T3/117/CL/CD | 120 | 60 | C-8 | 4.69 | 2.25 | 1500 | | 2400 | 2950 | | | 1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Horizontal, Carded |
| | | 150 | 19378 | Q150T3/CL/CD 5PK | 120 | 60 | C-8 | 3.13 | 1.25 | 1500 | | 2400 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Horizontal, Carded |
| | | 150 | 73287 | Q150T3/HD/SCD2-5PK | 120 | 5 | C-8 | 3.13 | 1.25 | 2000 | | 2400 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,11a | Torchiere, Motion-Sensing and Security, Small Card |
|  | R7s | 250 | 22865 | Q250T3/CL-6PK | 120 | 144 | C-8 | 3.13 | 1.25 | 1500 | | 4000 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Horizontal |
| | | 250 | 22121 | Q250T3/CL/CD 5PK | 120 | 60 | C-8 | 3.13 | 1.13 | 1500 | | 4000 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Carded |
| | | 300 | 43703 | Q300T3/CL-6PK | 120 | 144 | C-8 | 4.69 | 2.25 | 2000 | | 5950 | 2950 | | | 1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Horizontal |
| | | 300 | 19379 | Q300T3/CL/CD 5PK | 120 | 60 | C-8 | 4.69 | 2.25 | 2000 | | 5950 | 2950 | | | 1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Horizontal, Carded |
| | | 300 | 27447 | Q300T3CL/CD2-5PK | 120 | 60 | C-8 | 4.69 | 2.25 | 2000 | | 5950 | 2950 | | | 1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Horizontal, Carded |
| | | 300 | 97673 | Q300T3/HD/SCD2 | 120 | 25 | C-8 | 4.69 | 2.25 | 2000 | | 5950 | 2950 | | | 1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a | Torchiere, Small Card, Twin Pack |
| | | 500 | 23731 | Q500T3/CL | 120 | 12 | C-8 | 4.69 | 2.25 | 2000 | | 11100 | 3000 | | | 1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Horizontal |
| | | 500 | 23733 | Q500T3/CL | 130/120 | 12 | C-8 | 4.69 | 2.25 | 2000 | | 10550 | 3000 | | | 1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Horizontal |
| | | 500 | 23744 | Q500T3/CL/6-12PK | 120 | 144 | C-8 | 4.69 | 2.25 | 1500 | | 10950 | 3000 | | | 1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a | Clear, 6 Filament Support, Rough Service, Horizontal |
| | | 500 | 19382 | Q500T3/CL/CD 5PK | 120 | 60 | C-8 | 4.69 | 2.25 | 2000 | | 11100 | 3000 | | | 1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Horizontal, Carded |
| | | 500 | 27448 | Q500T3CL/CD2-5PK | 120 | 60 | C-8 | 4.69 | 2.25 | 2000 | | 11100 | 3000 | | | 1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Horizontal, Carded |
| | | 500 | 97674 | Q500T3/HD/SCD2 | 120 | 25 | C-8 | 4.69 | 2.25 | 2000 | | 11100 | 2950 | | | 1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a | Special service, Motion-Sensing and Security, Small Card, Twin Pack |
|  | R7s | 1000 | 43711 | Q1000T3/CL-6PK | 230 | 144 | C-8 | 10.06 | 6.13 | 2000 | | 21500 | 3050 | | | 1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b | Clear, Horizontal |
| | | 1000 | 43712 | Q1000T3/CL-6PK | 240 | 144 | C-8 | 10.06 | 6.44 | 2000 | | 21500 | 3050 | | | 1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b | Clear, Horizontal |
| | | 1500 | 23828 | Q1500T3/CL-12PK | 208 | 144 | C-8 | 10.06 cm | 6.25 cm | 2000 | | 33000 | 3050 | | | 1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b | Clear, Horizontal |
| | | 1500 | 23826 | Q1500T3/CL-12PK | 220 | 144 | C-8 | 10.06 | 6.18 | 2000 | | 35800 | 3050 | | | 1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b | Clear, Horizontal |
| | | 1500 | 23830 | Q1500T3/CL | 240 | 12 | C-8 | 10.06 cm | 6.31 cm | 2000 | | 32000 | 3050 | | | 1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b | Clear, Horizontal |
| | | 1500 | 23832 | Q1500T3/CL | 277 | 12 | C-8 | 10.06 | 6.25 | 2000 | | 34400 | 3050 | | | 1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b | Clear, Horizontal |

* Based on 3 hours per day use.







** Based on 3 hours per day use, \$0.11 per Kwh

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | Filament Type | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Initial Lumens | Initial Color Temp | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|---|--------------------|------------------|------------|------------------|---------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|--|--------------------------|--|------------------------------|
| Quartzline® (continued) | | | | | | | | | | | | | | | | | |
| Halogen PAR56 | | | | | | | | | | | | | | | | | |
| PAR56 | Mog End Pr | 500 | 43494 | Q500PAR56NSP | 120 | 6 | CC-6 | 5 | | 4000 | | 8000 | 2950 | 96000 | | 1a,2a,2j,4b,4c,4f,4g,7a,9b,10c | Narrow Spot |
| | | 500 | 43495 | Q500PAR56MFL | 120 | 6 | CC-6 | 5 | | 4000 | | 8000 | 2950 | 43000 | | 1a,2a,2j,4b,4c,4f,4g,7a,9b,10c | Medium Flood |
| | | 500 | 43496 | Q500PAR56WFL | 120 | 6 | CC-6 | 5 | | 4000 | | 8000 | 2950 | 19000 | | 1a,2a,2j,4b,4c,4f,4g,7a,9b,10c | Wide Flood |
| Halogen PAR64 | | | | | | | | | | | | | | | | | |
| PAR64 | ExMog EndPr | 1000 | 43497 | Q1000PAR64NSP | 120 | 6 | CC-6 | 5 | | 4000 | | 19400 | 3000 | 200000 | | 1a,2a,2j,4b,4c,4f,4g,7a,9b,10c | Narrow Spot |
| | | 1000 | 43498 | Q1000PAR64MFL | 120 | 6 | CC-6 | 5 | | 4000 | | 19400 | 3000 | 80000 | | 1a,2a,2j,4b,4c,4f,4g,7a,9b,10c | Medium Flood |
| | | 1000 | 43499 | Q1000PAR64WFL | 120 | 6 | CC-6 | 5 | | 4000 | | 19400 | 3000 | 33000 | | 1a,2a,2j,4b,4c,4f,4g,7a,9b,10c | Wide Flood |
| Halogen Miniature Candelabra Screw (E11) | | | | | | | | | | | | | | | | | |
|  | Mini-Cand | 100 | 16452 | Q100MC | 120 | 6 | CC-8 | 2.81 | 1.38 | 2000 | | 1550 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,12e | Frosted |
| | | 100 | 15507 | Q100CL/MC | 120 | 6 | CC-8 | 2.81 | 1.38 | 2000 | | 1600 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,12e | Clear |
| | | 100 | 44385 | Q100CL/MC/2V | 120 | 6 | CC-2V | 2.81 | 1.38 | 750 H | | 1800 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,12e | Clear |
| | | 100 | 19383 | Q100CL/MC/CD 5PK | 120 | 25 | CC-8 | 2.81 | 1.38 | 2000 | | 1600 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,12e | Clear, Carded |
|  | Mini-Cand | 75 | 12715 | Q75CL/MC/CD | 120 | 25 | CC-8 | 2.50 | 1.25 | 1000 | | 1050 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Clear, Carded |
|  | Mini-Cand | 150 | 44654 | Q150MC | 120 | 6 | CC-8 | 3.00 | 1.38 | 2000 | | 2700 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Frosted |
| | | 150 | 43694 | Q150CL/MC | 120 | 6 | CC-8 | 3.00 | 1.38 | 2000 | | 2800 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Clear |
| | | 150 | 19386 | Q150CL/MC/CD 5PK | 120 | 25 | CC-8 | 3.00 | 1.38 | 2000 | | 2800 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Clear, Carded |
| | | 250 | 43695 | Q250MC | 120 | 6 | CC-8 | 3.16 | 1.63 | 2000 | | 4850 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Frosted |
| | | 250 | 43696 | Q250MC | 130/120 | 6 | CC-8 | 3.16 | 1.63 | 2000 | | 4850 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Frosted |
| | | 250 | 43699 | Q250CL/MC | 120 | 6 | CC-8 | 3.16 | 1.63 | 2000 | | 5000 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Clear |
| | | 250 | 43700 | Q250CL/MC | 130/120 | 6 | CC-8 | 3.16 | 1.63 | 2000 | | 5000 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Clear |
| | | 400 | 43706 | Q400MC | 120 | 6 | CC-8 | 3.62 | 2.00 | 2000 | | 7850 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Frosted |
| | | 400 | 43707 | Q400CL/MC | 120 | 6 | CC-8 | 3.62 | 2.00 | 2000 | | 8250 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Clear |
| 500 | 47950 | Q500CL/MC (EVRI) | 120 | 6 | CC-8 | 3.62 | 2.00 | 2000 | | 10450 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Stage and Studio | | |
| Other | | | | | | | | | | | | | | | | | |
|  | DC PreFoc | 45 | 14473 | Q45T4/CL/DCR | 6.6A | 12 | C-6 | 2.60 | 1.06 | 500 | | 845 | 2850 | | | 1a,2a,2j,2k,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Airport and Airfield |
| | 2-Pin Prefoc GY16d | 200 | 40702 | Q200T4/CL | 200 | 12 | CC-6 | 2.50 | 1.53 | 500 | | 4500 | 3100 | | | 2a,2j,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c | Clear, Airport, Base Down |
|  | 1" Ribbon Leads | 500 | 88616 | Q500T8/1CL | 120 | 12 | CC-8 | 4.25 | 2.50 | 500 | | 13400 | 3200 | | | 1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b | Clear, Airport, Special Bulb |
| Airport | | | | | | | | | | | | | | | | | |
| T4 | PK30D | 100 | 80584 | Q6.6A100PK30d-m | 6.6A | 10 | CBAR-6 | 2 | 0.79 | 1000 | | 2700 | | | | 2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Airport, Male Spade |
| T8 | PK30D | 200 | 80586 | Q6.6A200PK30d-m | 6.6A | 10 | CC-6 | 2.3 | 0.79 | 1000 | | 4800 | | | | 2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Airport, Male Spade |
| T9 | PK30D | 200 | 80590 | Q6.6A200PK30d-f | 6.6A | 10 | CC-6 | 2.3 | 0.79 | 1000 | | 4800 | | | | 2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Airport, Female Spade |
|  | 1" Ribbon Leads | 200 | 23857 | Q6.6A/T4/5CL | 6.6A | 12 | CC-8 | 3.00 | | 500 | | 5000 | | | | 2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Clear, Airport |

* Based on 3 hours per day use.




** Based on 3 hours per day use, \$0.11 per Kwh

Halogen Lamps

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | Filament Type | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Initial Lumens | Initial Color Temp | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|--|------------------|-------|------------|-----------------|-------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|--------|--------------------------|--|--|
| Airport (continued) | | | | | | | | | | | | | | | | | |
|  | D C Bay BA15d | 200 | 23860 | Q6.6AT4/DCR | 6.6A | 12 | CC-6 | 2.50 | 1.06 | 500 | | 5150 | | | | 2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Clear, Airport, Ringed |
| PAR56 | Scrw Term | 200 | 33279 | Q6.6A PAR56/3 | 6.6A | 12 | CC-6 | 4.5 | | 1000 | | | | 200000 | | 2a,2j,4b,4c,4d,4f,4g,7a,9b,10c | PAR, Airport, BDTH |
| PAR56 | Mog End Pr | 200 | 38271 | Q6.6A PAR56/2 | 6.6A | 12 | CC-6 | 5 | | 1000 | | | | 16000 | | 2a,2j,4b,4c,4d,4f,4g,7a,9b,10c | PAR, Airport, BDTH |
|  | Mog End Pr GX16d | 200 | 18309 | Q6.6A/PAR56/4 | 6.6A | 12 | CC-6 | 5.00 | | 600 | | | | | | 2a,2j,4b,4c,4d,4f,4g,7a,9b,10c | PAR, Airport, Prismatic Lens, BDTH |
| PAR64 | Mog End Pr | 200 | 13224 | Q6.6A/PAR 64/2P | 6.6A | 6 | CC-6 | 4.5 | | 2000 | | | | 16000 | | 2a,2j,4b,4c,4d,4f,4g,7a,9b,10c | PAR, Airport, BDTH |
| PAR56 | Scrw Term | 300 | 32861 | Q20A/PAR56/2 | | 12 | CC-6 | 4.5 | | 500 | | | | 200000 | | 2a,2j,4b,4c,4f,4g,7a,9b,10c | PAR, Airport, Burn Position: Any |
| PAR56 | Mog End Pr | 300 | 15482 | Q20A/PAR56/C | | 12 | CC-6 | 5 | | 500 | | | | | | 2a,2j,4c,4f,4g,7a,9b,10c | PAR, Airport, Coated, Burn Position: Any |
| PAR56 | Scrw Term | 499 | 23863 | Q20A/PAR56/3 | | 12 | CC-6 | 4.5 | | 500 | | | | 330000 | | 2a,2j,4b,4c,4d,4f,4g,7a,9b,10c | PAR, Airport, BDTH |
| PAR56 | Mog End Pr | 500 | 15485 | Q20A/PAR56/1/C | | 12 | CC-6 | 5 | | 500 | | | | | | 2a,2j,4c,4f,4g,7a,9b,10c | PAR, Airport, Coated, Burn Position: Any |
| Tubular Quartz Heat | | | | | | | | | | | | | | | | | |
| Sleeve | | | | | | | | | | | | | | | | | |
|  | Sleeve | 500 | 21788 | QH500T3/CL | 120 | 12 | C-8 | 8.80 | 4.81 | 5000 | | | 2400 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Clear |
| | | 1000 | 22355 | QH1000T3/CL | 210 | 12 | C-8 | 13.80 | 10.00 | 5000 | | | 2400 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Clear |
| Recessed Single Contact (R7s) | | | | | | | | | | | | | | | | | |
|  | Sleeve | 1000 | 22357 | QH1000T3/CL | 240 | 12 | C-8 | 13.81 | 10.00 | 5000 | | | 2400 | | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e | Infrared, Clear |
| | | 1200 | 22531 | QH1200T3/CL | 144 | 12 | C-8 | 8.80 | 6.13 | 5000 | | | 2450 | | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, 4g, 9a, 9d, 10b, 10c, 12b, 12e | Infrared, Clear, Horizontal |
| | | 1200 | 22532 | QH1200T3/CL/HT | 144 | 12 | C-8 | 8.80 | 6.13 | 5000 | | | 2450 | | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e | Infrared, Clear, High Temp, Construction, Horizontal |
| | | 1600 | 22686 | QH1600T3/CL | 210 | 12 | C-8 | 19.80 | 15.88 | 5000 | | | 2350 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Horizontal |
| | | 1600 | 22688 | QH1600T3/CL | 240 | 12 | C-8 | 19.80 | 15.88 | 5000 | | | 2400 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Clear, Horizontal |
| | | 1600 | 22695 | QH1600T3/CL | 277 | 12 | C-8 | 19.80 | 15.88 | 5000 | | | 2400 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Horizontal |
| | | 2500 | 22838 | QH2500T3/CL | 480 | 12 | C-8 | 28.80 | 24.88 | 5000 | | | 2400 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Clear, Horizontal |
| | | 3800 | 22875 | QH3800T3/CL | 575 | 6 | C-8 | 41.80 | 38.00 | 5000 | | | 2500 | | | 1a,2a,2b,3a,4f,5a,5b,9a,9d,10c,12b,12e | Infrared, Horizontal |
|  | R7s | 500 | 21787 | QH500T3/CL/7 | 120 | 12 | C-8 | 8.80 | 4.81 | 5000 | | | 2400 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Clear |
| | | 1600 | 22691 | QH1600T3/CL/7 | 240 | 12 | C-8 | 19.80 | 15.88 | 5000 | | | 2400 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Clear, Horizontal |
|  | R7s | 3650 | 10872 | QH3650T3/CL/5 | 480 | 6 | C-8 | 41.63 | 38.00 | 5000 | | | 2500 | | | 1a,2a,2b,3a,4f,5a,5b,9a,9d,10c,12b,12e | Infrared, Horizontal |

* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | Filament Type | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Initial Lumens | Initial Color Temp | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|---|----------------|-------|------------|------------------|-------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|------|--------------------------|--|--|
| Tubular Quartz Heat (continued) | | | | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | | | | |
|  | Ceramic Sleeve | 2000 | 12716 | QH2MT3/CL/HT/R | 230 | 12 | C-8 | 13.00 | 11.00 | 5000 | | | 2450 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Clear, High Temp, Horizontal, Reflector 170° |
|  | Sleeve | 2000 | 15551 | QH2MT3/1CL/HT/VB | 240 | 12 | C-8 | 11.90 | 9.60 | 500 | | | 2450 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Clear, High Temp, Construction, Universal |
| | Sleeve | 2000 | 22790 | QH2M/T3/CL/HT | 225 | 12 | C-8 | 18.80 | 10.00 | 5000 | | | 2450 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Clear, High Temp, Construction, Horizontal |
| | CER | 2500 | 28126 | QH2.5MT3/CL/HT/R | 400 | 12 | C-8 | 15.1 | 12.3 | 5000 | | | 2450 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, High Temp, Horizontal, Reflector 170 |
| | CER | 3000 | 28127 | QH3MT3/CL/HT/R | 400 | 12 | C-8 | 15.1 | 12.3 | 5000 | | | 2450 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, High Temp, Horizontal, Reflector 170 |
|  | Wire Lead | 6000 | 23843 | QH6MT3/CL/HT | 480 | 12 | C-8 | 11.90 | 9.70 | 100 | | | 3250 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Clear, High Temp, Horizontal |

* Based on 3 hours per day use.
 ** Based on 3 hours per day use, \$0.11 per Kwh

Halogen Lamps

General Information

Halogen Lamp Operating Precautions

The lamps listed in this catalog are filled to high internal gas pressures to maximize lamp efficacy (lumens per watt). Some general cautions are given below.

High Operating Temperatures

Since operating temperatures are critical to the effective self-cleaning properties of halogen lamps, filament tube wall temperatures should not go below 482°F (250°C). Hot spots on the bulb wall itself can go as high as 1230°F (700°C) in normal operation.

Substantial heat is generated in all halogen lamps, so equipment design should make allowance for the dissipation of excessive heat. Certain lamps and extremely confined fixtures may require additional ventilation or heat sinking to ensure proper operation of the halogen cycle and to prevent damage to the fixture. It is a good practice to test the lamp in the operating environment early in the design cycle to ensure adequate performance. Precautions must be taken in the selection of materials for lampholders, reflectors and lamp housings because the 1230°F (700°C) bulb wall temperature is greater than the kindling temperature of many materials. Lamp base temperatures should not exceed 662°F (350°C) because, above that point, lead wires may deteriorate and the basing cement loosen, causing premature lamp failure.

Distribution of Spectral Radiation

Halogen lamps offer large amounts of visible and infrared energy from a small light source, with about 90% of the energy in the infrared. Some halogen lamps can be used for special applications where small amounts of ultraviolet energy are required. The slight

ultraviolet radiation that comes from unprotected sources could cause skin and eye irritation following extended direct exposure. Passing the light through ordinary glass or plastic provides adequate protection. The lenses of the PAR, TAL or Cover Glass Precise™ lamps provide this protection.

Quartz Heat Lamps

GE standard quartz heat products are primarily pressurized halogen lamps. Many standard tungsten coil filaments have been converted to a deflection coil winding design that eliminates the need for filament supports through an integral coil/support construction. These changes will improve lamp life as well as keep the bulb wall cleaner during operation and throughout the life of the lamp.

In general, halogen lamps are more efficient than ordinary incandescent lamps. HIR™ lamps are the most efficient halogen lamps we offer. For each application, check life, lumens, wattage, beam spread and lamp dimensions to determine proper bulb selection.

GE has added a reflectorized heat lamp with a patented design that directs the infrared to a surface rather than in 360° angle.

Halogen Caution Notice – General

Halogen lamps are constructed of a glass bulb with a pressurized internal filament tube that operates at high temperatures and could unexpectedly shatter. Should the outer bulb break, particles of extremely hot glass could be discharged into the fixture enclosure and/or surrounding environment, thereby creating a risk of personal injury or fire.

Operating Notes

- Turn power off and let lamp cool before removal to avoid potential burn and electrical shock during lamp replacement
- Do not use lamp if outer glass is scratched or broken because it may break during installation or later during operation
- Do not use lamp in close proximity to combustible materials or those adversely affected by drying or fading action because of heat radiation in the lamp beam
- Dispose of removed lamp with care such as placing in used lamp carton or other closed container

Compact PAR Lamps (PAR20/30)

- Use outdoors in enclosed fixtures or where protected from exposure to water

Quartzline® PAR (250W)

- Avoid use where exposed to moisture which may cause lamp to break or shatter
- Do not operate lamp over 110% rated voltage. Overvoltage operation increases pressure and tendency to break.
- Use this lamp only in fixtures designed for Q250PAR38 lamps

Halogen A-Line (TB/H)

Caution: Cracked or broken bulbs that still light should be replaced immediately. The inner tube of the GE Halogen lamp is pressurized, operates at high temperature and could unexpectedly shatter with the possibility of property damage or personal injury. Avoid use in unstable table lamps, dispose of with care. To avoid burns, electricity should be switched off and the lamp allowed to cool for several minutes before removing from socket. Use outdoors only in enclosed fixtures or where protected from exposure to water.

Operating Notes – Low Voltage Lamps

Low voltage tungsten-halogen lamps are sensitive to voltage variations. Even a small change in voltage can have a considerable impact on lamp life. Designers should match fixture transformer ratings to actual line voltages to ensure that the lamps operate at as close to 12 volts as possible.

Rapid cycling can also shorten lamp life, and designers should take advice from their GE Lighting representative before using these lamps in flashing or blinking applications.

The lamps may be dimmed by reducing voltage. However, this may cause the bulbs to blacken. If this occurs the lamp should be run at full voltage for fifteen minutes, thereby clearing the problem. Note that the nature of low voltage lighting systems requires the use of fluorescent-type dimmers. Lamp can be operated on AC or DC currents.

Warning and Caution Notices

| | | |
|--|--|---------------------------------------|
| <p>1</p> <p>⚠ WARNING Risk of electric shock</p> <ol style="list-style-type: none"> Turn power off before inspection, installation or removal Turn power off if glass bulb is broken, even if bulb continues to light. Remove and dispose of lamp. Do not open. No user serviceable parts inside. | <p>6</p> <p>⚠ WARNING Risk of burn</p> <ol style="list-style-type: none"> Do not touch operating lamp | Incandescent |
| <p>2</p> <p>⚠ WARNING Risk of fire</p> <ol style="list-style-type: none"> Keep combustible materials away from lamp Use in fixture rated for this product Use in fixture rated for this product—see instructions Operate base down to horizontal only In table lamp use only with shade Do not use in enclosed fixture or with lamp shade Use in high intensity fixture rated for this product Do not use as a night light Burning position base down only Use in enclosed fixture rated for this product Fire Hazard! Do not use in Torchieres or other indoor residential fixtures | <p>7</p> <p>⚠ WARNING A damaged lamp emits UV radiation which may cause eye/skin injury</p> <ol style="list-style-type: none"> Turn power off if glass bulb is broken. Remove and dispose of lamp. | Halogen |
| <p>3</p> <p>⚠ WARNING Lamp emits IR radiation which may cause eye injury</p> <ol style="list-style-type: none"> Avoid exposure of eyes and skin to unshielded lamp | <p>8</p> <p>⚠ WARNING Lamp emits UV radiation which may cause eye/skin injury.</p> <ol style="list-style-type: none"> Avoid exposure of eyes and skin to unshielded lamp | High Intensity Discharge |
| <p>4</p> <p>⚠ WARNING Pressurized lamp—unexpected rupture may cause injury, fire, or property damage</p> <ol style="list-style-type: none"> Use eye protection when handling lamp Avoid direct water/liquid contact Use in enclosed fixture rated for this product Operate lamp only in specified position Do not touch glass with bare hands Do not use lamp if outer glass is scratched or broken Do not exceed 110% of rated voltage Do not use where directly exposed to water or outdoors without an enclosed fixture Do not exceed rated voltage Do not use lamp if outer jacket is scratched or broken, even if bulb continues to light. Turn power off, remove and dispose. Do not use in wet locations | <p>9</p> <p>⚠ CAUTION Risk of burn</p> <ol style="list-style-type: none"> Allow lamp to cool before handling Allow lamp/fixture to cool before handling Do not touch operating lamp Turn power off before installing lamp | Fluorescent |
| <p>5</p> <p>⚠ WARNING Unexpected lamp rupture may cause injury, fire, or property damage</p> <ol style="list-style-type: none"> Do not touch glass with bare hands Operate lamp only in specified position Use in enclosed fixture rated for this product Do not use lamp if outer glass is scratched or broken Avoid direct water, liquid or metal contact <p>For the most up-to-date product information, see www.gelighting.com.</p> | <p>10</p> <p>⚠ CAUTION Lamp may shatter and cause injury if broken</p> <ol style="list-style-type: none"> Wear safety glasses and gloves when handling lamp Dispose of lamp in a closed container Do not use lamp if outer glass is scratched or broken | Compact Fluorescent |
| <p>6</p> <p>⚠ WARNING Pressurized lamp—unexpected rupture may cause injury, fire, or property damage</p> <ol style="list-style-type: none"> Use eye protection when handling lamp Avoid direct water/liquid contact Use in enclosed fixture rated for this product Operate lamp only in specified position Do not touch glass with bare hands Do not use lamp if outer glass is scratched or broken Do not exceed 110% of rated voltage Do not use where directly exposed to water or outdoors without an enclosed fixture Do not exceed rated voltage Do not use lamp if outer jacket is scratched or broken, even if bulb continues to light. Turn power off, remove and dispose. Do not use in wet locations | <p>11</p> <p>⚠ CAUTION Lamp emits UV radiation which may cause eye/skin irritation.</p> <ol style="list-style-type: none"> Minimize exposure | LED Lamps, Tubes and Modules |
| <p>7</p> <p>⚠ WARNING A damaged lamp emits UV radiation which may cause eye/skin injury</p> <ol style="list-style-type: none"> Turn power off if glass bulb is broken. Remove and dispose of lamp. | <p>12</p> <p>OP. INST.</p> <ol style="list-style-type: none"> Burning position – base up Burning position – horizontal Burn base down only Burn base down to horizontal Limit seal temp to 650°F. Maintain min bulb wall temp of 500°F for operation of halogen cycle | Stage and Studio |
| <p>8</p> <p>⚠ WARNING Lamp emits UV radiation which may cause eye/skin injury.</p> <ol style="list-style-type: none"> Avoid exposure of eyes and skin to unshielded lamp | | Miniature, Sealed Beam and Automotive |
| | | Projection |

Halogen Lamps

Cross-Reference

| GE Description | Osram/ Sylvania Description | Philips Description |
|---------------------------------|----------------------------------|-----------------------|
| Order This GE Lamp | If you currently use these lamps | |
| Halogen PAR Lamps | | |
| 60PAR16/H/SP10 | 60PAR16/CAP/NSP10 | 60PAR16/HAL/NSP10 |
| 60PAR16/H/FL30 | 60PAR16/CAP/NFL30 | 60PAR16/HAL/NFL27 |
| 75PAR16/H/SP10 | 75PAR16/CAP/NSP10 | — |
| 75PAR16/H/FL30 | 75PAR16/CAP/NFL30 | — |
| 50PAR20/H/SP10 | 50PAR20/CAP/SPL/NSP10 | 50PAR20/HAL/NSP9 |
| 50PAR20/H/FL25 | 50PAR20/CAP/SPL/NFL30 | 50PAR20/HAL/NFL30 |
| 50PAR30/H/SP10 | 50PAR30/CAP/SPL/NSP9 | 50PAR30S/HAL/NSP10 |
| 50PAR30/H/FL25 | 50PAR30/CAP/SPL/NFL25 | 50PAR30S/HAL/NFL30 |
| 50PAR30/H/FL35 | 50PAR30/CAP/SPL/FL40 | 50PAR30S/HAL/FL40 |
| 50PAR30L/H/SP10 | 50PAR30LN/CAP/SPL/NSP9 | 50PAR30L/HAL/NSP9 |
| 50PAR30L/H/FL40 | 50PAR30LN/CAP/SPL/NFL30 | 50PAR30L/HAL/NFL30 |
| 50PAR30L/H/WFL | 50PAR30LN/CAP/SPL/WFL50 | 50PAR30L/HAL/WFL60 |
| 60PAR30/H/NSP9 | 60PAR30/CAP/SPL/NSP9 | 60PAR30S/HAL/NSP10 |
| 60PAR30/H/FL25 | 60PAR30/CAP/SPL/NFL25 | 60PAR30S/HAL/NFL30 |
| 60PAR30/H/FL35 | — | 60PAR30S/HAL/NFL40 |
| 75PAR30/H/SP10 | 75PAR30/CAP/SPL/NSP9 | 75PAR30S/HAL/NSP10 |
| 75PAR30/H/FL25 | 75PAR30/CAP/SPL/NFL25 | 75PAR30S/HAL/NFL30 |
| 75PAR30/H/FL35 | 75PAR30/CAP/SPL/FL40 | 75PAR30S/HAL/FL40 |
| 75PAR30L/H/SP10 | 75PAR30LN/CAP/NSP9 | 75PAR30L/HAL/NSP9 |
| 75PAR30L/H/FL25 | 75PAR30LN/CAP/NFL25 | 75PAR30L/HAL/NFL30 |
| 75PAR30L/H/WFL | 75PAR30LN/CAP/WFL40 | 75PAR30L/HAL/FL40 |
| 45PAR/H/SP10 | 45PAR/CAP/SPL/SP9 | 45PAR38/HAL/SP12/LL |
| 45PAR/H/FL25 | 45PAR/CAP/SPL/FL30 | 45PAR38/HAL/FL28/LL |
| 50PAR/H/SP10 | 50PAR38/HAL/SP9 | — |
| 50PAR/H/FL25 | 50PAR38/HAL/FL30 | — |
| 60PAR/H/SP10 | 60PAR/CAP/SPL/SP10 | 60PAR38/HAL/NSP10/WLL |
| 60PAR/H/FL25 | 60PAR/CAP/SPL/NSL25 | 60PAR38/HAL/FL28/WLL |
| 75PAR/H/NSP9 | 75PAR/CAP/SPL/SP9 | 75PAR38/HAL/SP10/WLL |
| 75PAR/H/FL25 | 75PAR/CAP/SPL/FL30 | 75PAR38/HAL/FL28/WLL |
| 90PAR/H/SP10 | 90PAR/CAP/SPL/SP9 | 90PAR38/HAL/SP12/LL |
| 90PAR/H/FL25 | 90PAR/CAP/SPL/FL30 | 90PAR38/HAL/FL28/LL |
| 90PAR/H/WFL | 90PAR/CAP/SPL/WFL50 | 90PAR38/HAL/WFL60/WLL |
| 100PAR/H/SP10 | 100PAR38/HAL/SP9 | — |
| 100PAR/H/FL25 | 100PAR38/HAL/FL30 | — |
| 120PAR/H/SP9 | 120PAR/CAP/SPL/SP10 | — |
| 120PAR/H/FL30 | 120PAR/CAP/SPL/FL30 | — |
| Halogen HIR™ PAR Lamps | | |
| 45PAR30/HIR/SP9XL | — | 45PAR30/IRC/HAL/SP10 |
| 45PAR30/HIR/FL25XL | — | 45PAR30/IRC/HAL/FL25 |
| 45PAR30/HIR/FL35XL | — | 45PAR30/IRC/HAL/FL40 |
| 50PAR30/HIR/SP9 | 50PAR30/CAP/IR/NSP9 | 50PAR30S/IRC/NSP10 |
| 50PAR30/HIR/FL25 | 50PAR30/CAP/IR/NFL25 | 50PAR30S/IRC/NFL30 |
| 50PAR30/HIR/FL35 | 50PAR30/CAP/IR/FL40 | 50PAR30S/IRC/FL40 |
| Halogen HIR™ PAR38 Lamps | | |
| 45PAR/HIR/FL40XL | — | 45PAR38/IRC/WFL |
| 45PAR/HIR+/SR10 | — | — |
| 45PAR/HIR+/FL25 | — | — |
| 48PAR/HIR+/SP10 | — | — |
| 48PAR/HIR+/FL25 | — | — |
| 50PAR/HIR/SP6 | — | — |
| 50PAR/HIR/SP9 | 50PAR38/CAP/IR/SP9 | 50PAR38/IRC/SP10 |
| 50PAR/HIR/FL25 | 50PAR38/CAP/IR/NFL25 | 50PAR38/IRC/FL25 |
| 50PAR/HIR/S/SP10 | — | — |
| 50PAR/HIR/S/FL25 | — | — |
| 55PAR/HIR+/SP10 | — | — |
| 55PAR/HIR+/FL25 | — | — |
| 60PAR/HIR/SP10 | 60PAR38/CAP/IR/SP9 | 60PAR38/IRC/SP12 |
| 60PAR/HIR/FL30 | 60PAR38/CAP/IR/FL30 | 60PAR38/IRC/FL25 |
| 60PAR/HIR/FL40 | — | 60PAR38/IRC/HAL/FL40 |
| 60PAR/HIR/S/SP10 | — | — |

| GE Description | Osram/ Sylvania Description | Philips Description |
|---|----------------------------------|----------------------|
| Order This GE Lamp | If you currently use these lamps | |
| Halogen HIR™ PAR38 Lamps (continued) | | |
| 60PAR/HIR/S/FL25 | — | — |
| 60PAR/HIR+/SP10 | — | — |
| 60PAR/HIR+/FL25 | — | — |
| 67PAR/HIR+/SP10 | — | — |
| 67PAR/HIR+/FL25 | — | — |
| 70PAR/HIR/SP10 | — | 70PAR38/IRC/HAL/SP10 |
| 70PAR/HIR/FL25 | — | 70PAR38/IRC/HAL/FL25 |
| 80PAR/HIR/SP10 | 80PAR/CAP/IR/SP10 | — |
| 80PAR/HIR/SP12 | 80PAR/CAP/IR/SP12 | — |
| 80PAR/HIR/FL25 | 80PAR/CAP/IR/FL25 | — |
| 83PAR/HIR+/SP10 | — | — |
| 83PAR/HIR+/FL25 | — | — |
| 90PAR/HIR/SP12XL | — | — |
| 90PAR/HIR/FL40XL | — | — |
| 100PAR/HIR/SP10 | 100PAR/CAP/IR/SP10 | 100PAR38/IRC/SP10 |
| 100PAR/HIR/FL25 | 100PAR/CAP/IR/NFL25 | 100PAR38/IRC/FL25 |
| 100PAR/HIR/FL40 | 100PAR/CAP/IR/FL40 | 100PAR38/IRC/WFL |
| Halogen MR11 Lamps | | |
| Q20MR11/SP15 | 20MR11/SP10/FTB | 20MRC11/SP10 |
| Q20MR11/NFL30 | 20MR11/FL35/FTD | 20MRC11/FL30 |
| Q35MR11/NSP20 | 35MR11/SP10/FTE | — |
| Q35MR11/NFL30 | 35MR11/FL40/FTH | 35MRC11/FL30 |
| Halogen Standard MR16 Lamps | | |
| Q20MR16/SP | 20MR16/NSP8/ESX | 20MRC16/SP10 |
| Q20MR16/FL | 20MR16/FL40/BAB | 20MRC16/FL36 |
| Q50MR16/SP | 50MR16/NSP12/EST | 50MRC16/SP10 |
| Q50MR16/FL | 20MR16/FL40/EXN | 50MRC16/FL38 |
| Halogen ConstantColor® Precise™ MR16 Lamps | | |
| Q20MR16/C/NSP7 | 20MR16/T/NSP10 | 20MRC16/CC/SP10 |
| Q20MR16/C/NSP15 | — | 20MRC16/CC/NFL24 |
| Q20MR16/C/FL40 | 20MR16/T/NFL40 | 20MRC16/CC/FL38 |
| Q35MR16/C/SP20 | 35MR16/T/NFL25 | — |
| Q35MR16/C/FL40 | 35MR16/T/FL40 | — |
| Q42MR16/C/NSP9 | 50MR16/T/NSP10 | — |
| Q50MR16/C/NSP15 | — | 50MRC16/CC/SP10 |
| Q50MR16/C/NFL25 | 50MR16/T/NFL25 | 50MRC16/CC/NFL24 |
| Q50MR16/C/NFL30 | — | — |
| Q50MR16/C/FL40 | 50MR16/T/FL40 | 50MRC16/CC/NFL38 |
| Q50MR16/C/WFL55FNV | 50MR16/T/WFL60 | — |
| Q71MR16/C/NSP15 | 65MR16/T/NSP10 | — |
| Q71MR16/C/NFL25 | 65MR16/T/NFL25 | — |
| Q71MR16/C/FL40 | 65MR16/T/FL40 | — |
| Halogen HIR™ MR16 Lamps | | |
| Q20MR16/HIR/CG10 | 20MR16/IR/SP10/C | 20MRC16/IRC/ALW/SP8 |
| Q20MR16/HIR/CG25 | 20MR16/IR/NFL25/C | — |
| Q20MR16/HIR/CG35 | 20MR16/IR/FL35/C | 20MRC16/IRC/ALW/FL36 |
| Q37MR16/HIR/CG10 | 37MR16/IR/NSP10C | 35MRC16/IRC/SP8 |
| Q37MR16/HIR/CG25 | 37MR16/IR/NFL25C | 35MRC16/IRC/NFL24 |
| Q37MR16/HIR/CG40 | 37MR16/IR/FL40C | 35MRC16/IRC/FL36 |
| Q50MR16/HIR/CG10 | 50MR16/IR/NSP10C | 45MRC16/IRC/SP8 |
| Q50MR16/HIR/CG25 | 50MR16/IR/NFL25C | 45MRC16/IRC/NFL24 |
| Q50MR16/HIR/CG40 | 50MR16/IR/FL40C | 45MRC16/IRC/FL36 |
| Halogen Bi-Pin Low Voltage | | |
| Q5T3/CL | 5T3Q/CL | 5W12V/Capsule |
| Q10T3/CL | 10T3Q/CL | 10W12V/Capsule |
| Q20T3/CL | 20T3Q/CL/AX | 20W12V/Capsule |
| Q35T3/CL | 35TQ/CL/AX | 35W12V/Capsule |
| Q50T3/CL | 50T4Q/CL | 50W12V/Capsule |
| Q75T4/CL | 75T4Q/CL/RP | — |

Cross-Reference (continued)

| GE Description | Osram/ Sylvania Description | Philips Description |
|-----------------------------|---|---------------------|
| Order This GE Lamp | If you currently use these lamps | |
| Halogen Single-Ended | | |
| Q100CL/DC | 100Q/CL/DC | 100Q/CL/DC |
| Q100CL/MC | 100Q/CL/MC | 100Q/CL |
| Q100DC | 100Q/DC | — |
| Q150CL/DC/2V | 150Q/CL/DC/1 | — |
| Q150CL/DC | 150Q/CL/DC | 150Q/CL/DC |
| Q150CL/MC | 150Q/CL/MC/2 | 150Q/CL |
| Q150CL/MC/2V | 150Q/CL/MC | — |
| Q150DC | 150Q/DC | 150Q/DC |
| Q150MC | 150Q/MC | 150Q |
| Q250CL/DC | 250Q/CL/DC | 250Q/CL/DC |
| Q250CL/MC | 250Q/CL/MC/2 | 250Q/CL |
| Q250DC | 250Q/DC | — |
| Q250MC | 250Q/MC | — |
| Halogen Double-Ended | | |
| Q100T3/CL/CD | 100T3Q/CL | BC100T3Q/CL/TP |
| Q150T3/CL | 150T3Q/CL | BC100T3Q/CL/TP |
| Q300T3/CL | 300T3Q/CL | 300T3Q/P/CL |
| Q500T3/CL | 500T3Q/CL | 500T3Q/P/CL |

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
Fluorescent

LED Lamps,
Tubes and Modules

Stage and Studio

Miniature, Sealed
Beam and Automotive

Projection

High Intensity Discharge Lamps

| | | | |
|--|-------------|-----------------------------------|-------------|
| Bulb Identification | 3-2 | General Information..... | 3-18 |
| Lamp Locator | 3-2 | Operating Notes..... | 3-19 |
| Base Identification | 3-5 | Dimming | 3-19 |
| Introduction | 3-5 | Footnotes | 3-19 |
| Product Information..... | 3-6 | Warning Notices..... | 3-20 |
| HID Brand Name Cross Reference..... | 3-8 | Important Notice | 3-20 |
| Section Headings | 3-8 | Warning and Caution Notices | 3-21 |
| ConstantColor® CMH® Metal Halide Lamps | | Cross-Reference | 3-30 |
| CMH® MR16 ULTRA..... | 3-9 | | |
| CMH® MR16 | 3-9 | | |
| CMH® PAR Integral Ballast..... | 3-9 | | |
| CMH® PAR..... | 3-9 | | |
| CMH® Elliptical..... | 3-10 | | |
| CMH® Elliptical Open-Rated..... | 3-10 | | |
| CMH® Single-Ended G12 ULTRA | 3-10 | | |
| CMH® Single-Ended G12..... | 3-11 | | |
| CMH® Double-Ended TD | 3-11 | | |
| CMH® GU6.5 ULTRA | 3-11 | | |
| CMH® GU6.5 | 3-11 | | |
| CMH® Mini ULTRA..... | 3-11 | | |
| CMH® Mini's | 3-11 | | |
| CMH® Chromafit™ | 3-11 | | |
| High-Watt CMH® SPXX | 3-11 | | |
| PulseArc® Multi-Vapor® Metal Halide Lamps | 3-12 | | |
| Multi-Vapor® Metal Halide Lamps | 3-13 | | |
| High Output and XHO Multi-Vapor® | | | |
| Metal Halide Lamps | 3-13 | | |
| Sports Lighting..... | 3-14 | | |
| Protected Multi-Vapor® Metal Halide Lamps..... | 3-14 | | |
| Chromafit™ Multi-Vapor® Metal Halide Lamps | | | |
| (HPS Retrofit Lamps)..... | 3-15 | | |
| Lucalox® High Pressure Sodium Lamps | 3-15 | | |
| Ecolux® High Pressure Sodium Lamps | | | |
| (TCLP Compliant)..... | 3-15 | | |
| Ecolux® Standby Longlife Lucalox® Lamps | | | |
| (TCLP Compliant)..... | 3-16 | | |
| Standby Longlife Lucalox® Lamps | 3-17 | | |
| Ecolux® NC Non-Cycling High Pressure Sodium | | | |
| Lamps (TCLP Compliant) | 3-17 | | |
| Lucalox® PSL Lamps for Greenhouse | 3-17 | | |
| Mercury Lamps | 3-17 | | |

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

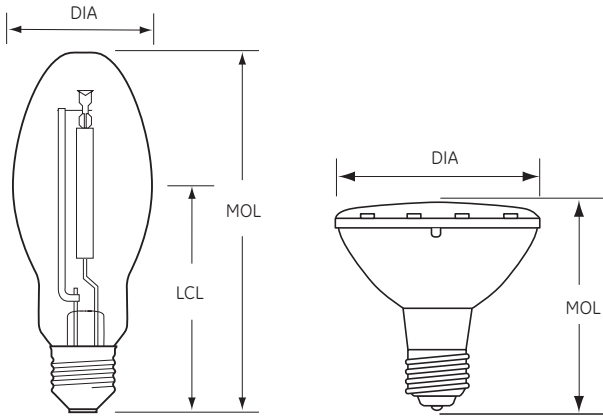
Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

High Intensity Discharge Lamps

Bulb Identification



DIA: Diameter of bulb at widest point.

MOL: Maximum Overall Length including base or pins.

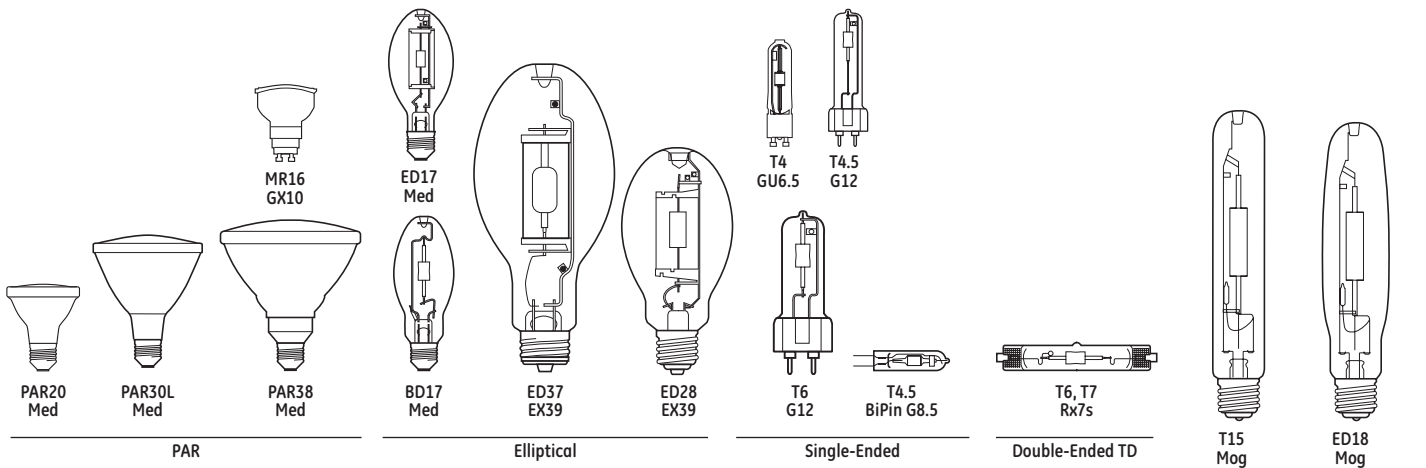
LCL: Distance between the center of the arc tube and the Light Center Length reference plane.

Note: Lamp drawings are not drawn to scale.

Be sure to check size and dimension information when identifying each lamp.

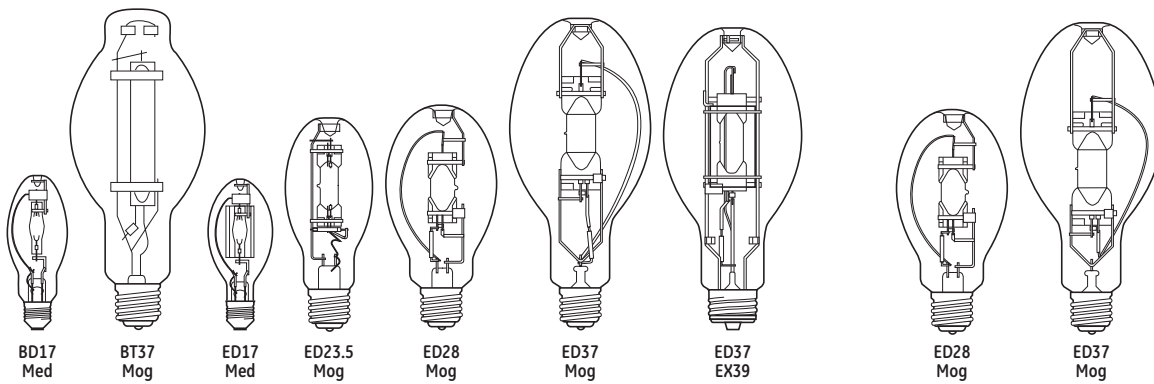
To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

Lamp Locator



ConstantColor® CMH® Ceramic Metal Halide

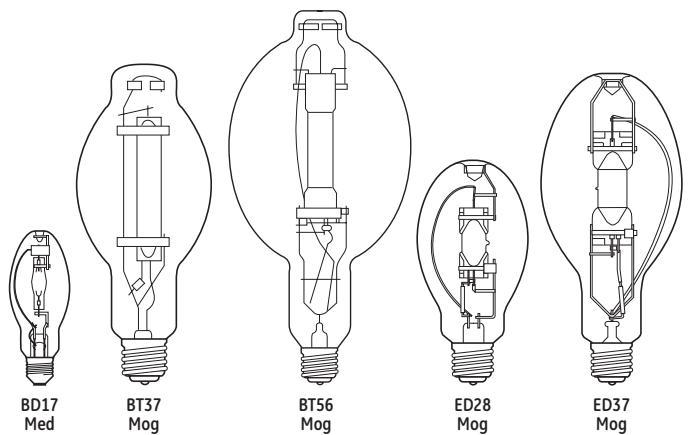
CMH® Chromafit™ Ceramic Metal Halide (HPS Retrofit Lamps)



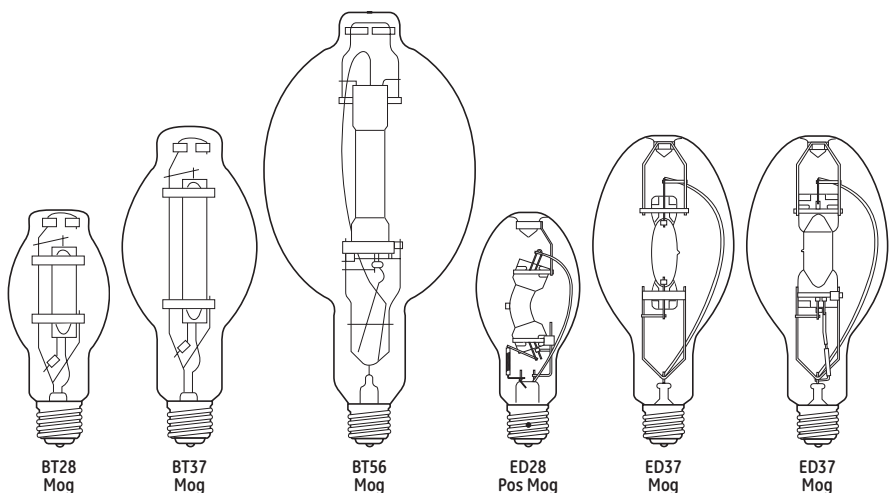
PulseArc® Multi-Vapor® Metal Halide Lamps

Chromafit™ Multi-Vapor® Metal Halide Lamps (HPS Retrofit Lamps)

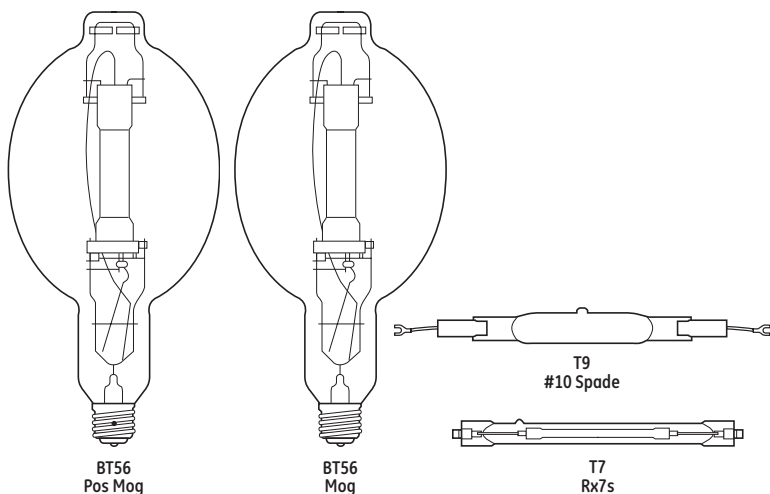
Lamp Locator (continued)



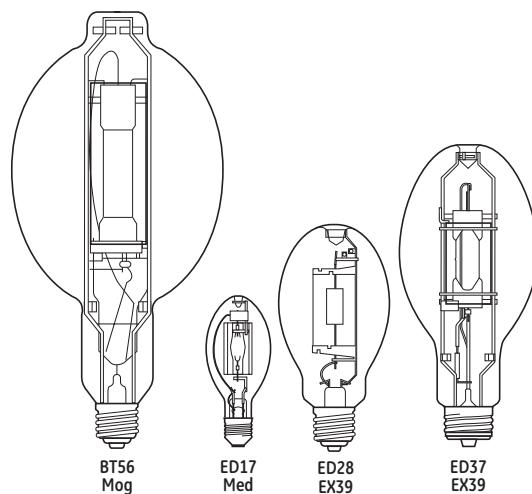
Multi-Vapor® Metal Halide Lamps



High Output and XHO Multi-Vapor® Metal Halide Lamps



Sports Lighting



Protected Multi-Vapor® Metal Halide Lamps

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

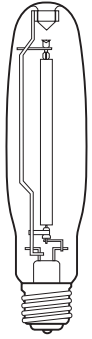
Stage and Studio

Miniature, Sealed Beam and Automotive

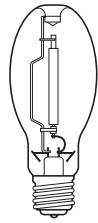
Projection

High Intensity Discharge Lamps

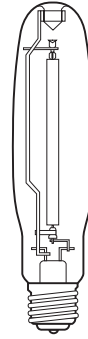
Lamp Locator (continued)



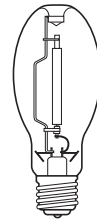
ED18
Mog



ED23.5
Mog



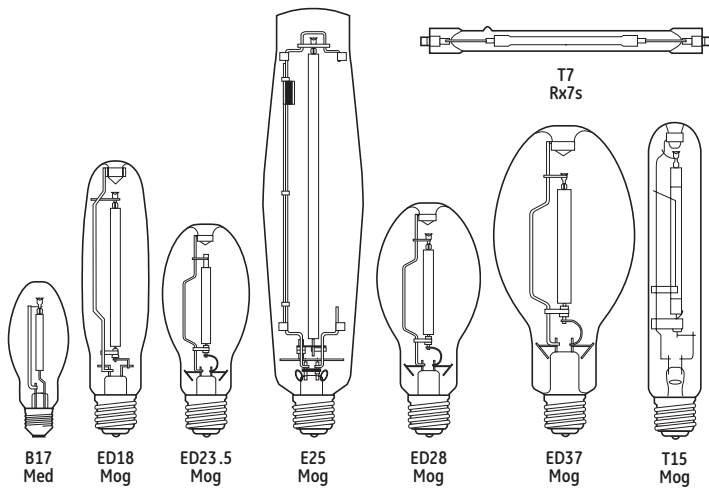
ED18
Mog



ED23.5
Mog

Ecolux® NC Non-Cycling High Pressure Sodium Lamps
(TCLP Compliant)

Ecolux® High Pressure Sodium Lamps
(TCLP Compliant)



B17
Med

ED18
Mog

ED23.5
Mog

E25
Mog

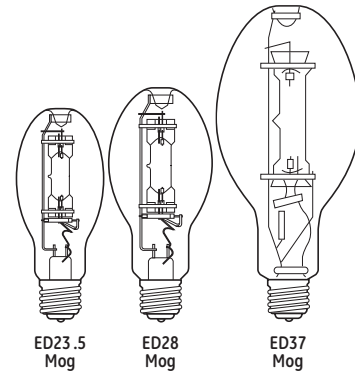
ED28
Mog

ED37
Mog

T15
Mog

T7
Rx7s

Lucalox® High Pressure Sodium Lamps



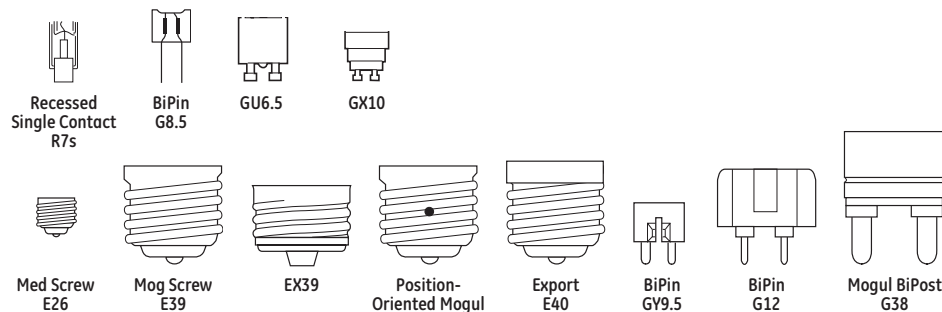
ED23.5
Mog

ED28
Mog

ED37
Mog

Mercury Lamps

Base Identification



Incandescent

Halogen

Introduction

GE HID lamps provide the following benefits:

High Efficacy/Low Operating Cost.

HID is generally the most efficient light source. Better efficiency almost always means lower operating cost.

Long Life.

Most HID lamps have life ratings that are better than incandescent lamps and similar to fluorescent lamps.

Compact Size.

An HID lamp produces high light output from a relatively compact source. Like incandescent, it is a "point" light source, which allows for good optical control.

The chart at right shows how HID lamps compare to incandescent, halogen, and fluorescent in terms of efficiency and rated life.

Efficiency is measured in lumens per watt (LPW). Rated life for most lamp types is the number of burning hours when 50% of the tested samples have failed and 50% are still operational. For both HID and fluorescent, lamp life depends on the number of hours per start.

The combination of high efficiency and long life makes HID an ideal light source for many commercial and industrial applications.

Typical Lamp Characteristics

| Lamp Type | Typical LPW | Rated Life (in hours) |
|-------------------------------|-------------|-----------------------|
| Incandescent | 5-22 | 750-2000 |
| Halogen | 12-36 | 2,000-6000 |
| Compact Fluorescent | 27-80 | 9,000-20,000 |
| Fluorescent | 75-100 | 5,000-36,000 |
| Mercury | 50-60 | 12,000-24,000+ |
| ConstantColor® CMH® | 80-95 | 10,000-20,000 |
| Multi-Vapor® Metal Halide | 80-115 | 10,000-20,000 |
| Lucalox® High Pressure Sodium | 90-140 | 10,000-40,000 |

Suggested Color Applications for HID Lamps

CMH®: Stores, people places, display, accent.

MVR: Stores, public spaces, industrial, gymnasiums, floodlighting signs and buildings, parking areas, sports.

MVR/C: Same as MVR – warmer color-diffuse coating reducing glare.

MXR: Warm color (3200K) – good match for halogen.

LU: Street lighting, parking areas, industrial, floodlighting, security, CCTV.

LU/DX: Floodlighting, parking areas, indoor/outdoor pedestrian malls, industrial, security, roadway.

Deluxe (DX) Mercury: Stores, public spaces – metal halide lamps however, are preferred.

Clear Mercury: Landscape lighting, specialized floodlighting such as green copper roofs.

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

High Intensity Discharge Lamps

Product Information

GE ConstantColor® CMH® and CMH® Ultra Ceramic Metal Halide Lamps (pgs 3-9 to 3-11)

- Color uniformity lamp-to-lamp and over lamp life
- Excellent color rendering (80+ CRI, 90+ CRI for SPXX versions)
- Delivers more light than standard metal halide (10%–20% more)
- Lamp operates at high efficacy—up to 95 lumens per watt
- Many are universal burn—may be operated in any position
- Perfect for retail and commercial display lighting, accent and floodlighting, lobby and foyer lighting. Ideal for “people places”

GE CMH® Chromafit™ Ceramic Metal Halide Lamps (pg 3-11)

- Convert High Pressure Sodium sockets to crisp, white ceramic metal halide light (80+ CRI)
- Operate on standard HPS ballasts and auxiliary equipment
- Universal burn—may be operated in any position
- Uses: Area lighting, industrial and “people places”
- Enclosed glass fixtures only

GE PulseArc® Medium Based Metal Halide Lamps (/MED models) (pg 3-12)

- Low wattage metal halide lamps (formerly Halarc®) are now part of the PulseArc® family
- Compact source
- Sparkling white light (3000-4000K) and very good color rendition (70-75 CRI)
- High efficacy—more than 3 times the lumens per watt of incandescent
- Long life—up to 15 times longer than incandescent systems and up to 7 times longer than most PAR and R systems, saving maintenance and labor costs
- Superior optical control
- Uses: Display lighting, downlighting, floodlighting, corridors, lobbies, walkways; retail, office, commercial

GE PulseArc® Multi-Vapor® Metal Halide Lamps (/PA Models) (pgs 3-12 to 3-13)

- Designed for operation only on approved ballasts with metal halide pulse ignitors
- More light—400W lamps provide highest initial and highest maintained lumens versus other standard universal or vertical base-up lamp options
- 50% longer life—400W lamps provide 30,000 hours life when burned on 120 hour on/1 hour off cycle (approximately continuous)
- Faster hot restrike—less than 4 minutes versus 10-15 minutes for typical metal halide lamps

GE Multi-Vapor® Metal Halide Lamps (pg 3-13)

- Sparkling white light (3000-4000K) and very good color rendition (65-75 CRI)
- Warm, rich 3000K color of SP30 blends well with incandescent, halogen and triphosphor fluorescent lamps for interior retail applications
- High efficacy—more efficient than incandescent, mercury and most fluorescent sources
- Long life—10,000-20,000 hours for most types

- Full line, 150-1000 watts, to meet most application needs
- Uses: Downlighting, floodlighting, corridors, lobbies, walkways; retail, commercial, industrial

GE High Output Multi-Vapor® Lamps (pgs 3-13 to 3-14)

- More light—optimized for higher light output in horizontal, vertical base-up and base-down burn applications
 - Horizontal burn lamps provide up to 25% more light than standard universal burn equivalents
 - 400W vertical burn lamps provide up to 22% more light than standard universal burn equivalents; the highest lumen lamps available for operation on standard M59 ballasts
- Longer life—horizontal burn lamps last up to 67% longer than universal burn lamp equivalents, significantly reducing replacement lamp and maintenance costs

GE Protected High Output Multi-Vapor® Lamps (/O) (pgs 3-14 to 3-15)

- Protective quartz jacket surrounds the arc tube
- The/O suffix and/or the “MPR” prefix in the Lamp Description indicates lamps are suitable for open fixture applications

GE ChromaFit™ Multi-Vapor® Lamps (/R) (pg 3-15)

- Convert high pressure sodium sockets to crisp white metal halide light (65-70 CRI)
- Operate on standard HPS ballasts and auxiliary equipment
- Uses: Area lighting, industrial and “people places”

GE Lucalox® High Pressure Sodium Lamps (pg 3-15)

- Very high efficacy/low operating cost
- Excellent lumen maintenance—over 90% @ 50% of life
- Very long life—24,000+ hours
- Universal burn—can be operated in any position without affecting performance
- Warm color
- For open or enclosed fixtures
- Uses: Industrial, roadway, security, floodlighting

GE Ecolux® High Pressure Sodium Lamps (/ECO) (pgs 3-15 to 3-16)

- Lead-free base. Passes TCLP, which can lower disposal costs.

GE Standby Longlife Lucalox® and Ecolux® Lamps (/SBY) (pgs 3-16 to 3-17)

- Extra arc tube provides light instantly after momentary power interruption, and will increase to 80% light output in 1-2 minutes
- Dual arc tubes provide 40,000 hour rated life
- Operates on standard HPS ballasts and auxiliary equipment
- Uses: Industrial, roadway, security, and hard-to-reach sockets
- Ecolux® lamps use lead-free bases. Passes TCLP, which can lower disposal costs.

Product Information (continued)

GE Ecolux® NC “Non-Cycling” High Pressure Sodium Lamps (/ECO/NC) (pg 3-17)

- Low mercury. Passes TCLP, which can lower disposal costs.
- Non-cycling feature makes locating and replacing end-of-life lamps quick and easy
- Lead-free base
- High efficacy/low operating cost
- 6%-11% higher initial lumens than standard HPS in 100W and 400W versions
- Long life—up to 40,000 hours
- Open or enclosed fixtures
- Uses: Industrial, roadway, security

GE Mercury Lamps (pg 3-17)

- Long life and good efficacy
- Phosphor coated Deluxe lamps provide good color rendering (50CRI)
- Uses: Industrial, roadway, landscapes, residential and commercial security, parking lots

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

Stage and Studio

Miniature, Sealed Bead and Automotive

Projection

High Intensity Discharge Lamps

HID Brand Name Cross-Reference

| GE | OSRAM/SYLVANIA | PHILIPS |
|------------------------------------|-----------------------------|----------------------|
| ChromaFit™ Multi-Vapor® | — | — |
| ConstantColor® CMH® | Powerball® MCP | MasterColor® CDM |
| Deluxe Lucalox® | — | Ceramalux™ Comfort |
| E-Z Lux® | Unalux® | Ceramalux™ Retrolux |
| Ecolux® | Lumalux ECO® | Ceramalux Alto® |
| Ecolux® NC | Lumalux Plus™/ECO® | Ceramalux Alto® Plus |
| High Output Multi-Vapor® | Super Metalarc® | Metal Halide |
| Horizontal Multi-Vapor® | Super Metalarc® | — |
| Lucalox® | Lumalux® | Ceramalux™ |
| Multi-Vapor® | Metalarc® | Metal Halide |
| Protected High Output Multi-Vapor® | Metalarc® Pro-Tech™ | — |
| PulseArc® | Super Metalarc® Pulse Start | Pulse Start |

| GE | OSRAM/SYLVANIA | PHILIPS |
|---------------------------|-----------------------|-----------------------------|
| Standby Longlife Lucalox® | Lumalux® Standby | Instant Restrike Ceramalux™ |
| Watt-Miser® Multi-Vapor® | Metalarc® Supersaver® | — |

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturers' performance specifications should be consulted. Lamp performance may be affected by environmental conditions, ballast type and/or other auxiliary equipment.

Headings in this catalog section

The following terms and descriptions can help you when checking High Intensity Discharge lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families, lamps are listed by wattage. In each of these wattage groups, lamps are listed by bulb shape.

Bulb Shape:

Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).

Energy Used – Nominal Watts:

Energy Used (as defined by FTC Lamp Label Rules). To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000.

Mean Lumens:

Lamp light output (lumens) at 40% of rated lamp life for Metal Halide lamps and 50% of rated life for Mercury and HPS lamps.

CBCP (Center Beam Candlepower):

For reflector-type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam. Used only for ConstantColor® CMH® Metal Halide Lamps.

Color Temperature Kelvins (K):

A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value the whiter or "cooler" the light appears.

Color Rendering Index (CRI):

An indication of the ability of the lamp to render object colors in a normal, natural way. The higher the number (0-100), the better the color appearance.

Additional Information:

Typical application and/or other important information.

Footnotes:

See page 3-19.

Warning and Caution Notices:

See page 3-21.

LET (Lamp Enclosure Type):

Describes fixture requirements for this lamp.

OP (Operating Position)

LCL (in):

Distance between the center of the filament and the Light Center Length reference plane, in inches.

Order Code:

It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

Case Qty:

Number of product units packed in a case.

ANSI Ballast Type:

Ballast type used to operate lamp.

Initial Lumens:

Initial light output.

Rated Life (hours):

Lamp burning hours to median life expectancy.

MOL (in):

Maximum Overall Length in inches.

Description:

The lamp's identification code.

Base:

The type of base.

| Bulb Shape | Base | LET | OP | Watts | MOL (in) | LCL (in) | Order Code | Description | ANSI Ballast Type | Case Qty | CBCP | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Additional Information | Footnotes | Warning and Caution Notices |
|------------|------|-----|----|-------|----------|----------|------------|-------------|-------------------|----------|------|------------------|----------------|-------------|--------------|-----|------------------------|-----------|-----------------------------|
|------------|------|-----|----|-------|----------|----------|------------|-------------|-------------------|----------|------|------------------|----------------|-------------|--------------|-----|------------------------|-----------|-----------------------------|

Constant Color CMH® Metal Halide Lamps

CMH® MR16

| | | | | | | | | | | | | | | | | | | | |
|------|------|---|---|----|------|--|-------|------------------|------|----|------|-------|------|--|------|----|--------------------------|----------|-----|
| MR16 | GX10 | O | U | 20 | 2.28 | | 85101 | CMH20MR16/830/SP | M156 | 12 | 9000 | 12000 | 1000 | | 3000 | 81 | 12 Spotlight, UV control | 33,39,51 | 107 |
|------|------|---|---|----|------|--|-------|------------------|------|----|------|-------|------|--|------|----|--------------------------|----------|-----|

CMH20MR16 / 830 / SP

Identifies as CMH® lamp.

Identifies the lamp's wattage.

Identifies the bulb shape.

Color temp. and CRI.

Additional information.

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape by using illustrations on pages 3-2 to 3-4.
2. Measure bulb diameter using ruler in Appendix section page D-1 to determine width in eighths of an inch.
3. Identify base type using table on page 3-5.
4. Find your lamp in the tabular data containing the bulb shape, size and base, which are all listed by wattage.

| Bulb Shape | Base | LET | OP | Watts | MOL (in) | LCL (in) | Order Code | Description | ANSI Ballast Type | Case Qty | CBCP | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Additional Information | Reduced Watts/ High Color Rendering | Footnotes | Warning and Caution Notices |
|---|------|-----|----|-------|----------|----------|------------|------------------|-------------------|----------|-------|------------------|----------------|-------------|--------------|-----|--|-------------------------------------|-----------|-----------------------------|
| Constant Color CMH® Metal Halide Lamps | | | | | | | | | | | | | | | | | | | | |
| CMH® MR16 ULTRA | | | | | | | | | | | | | | | | | | | | |
| MR16 | GX10 | O | U | 39 | 2.28 | | 62292 | CMH39MR16UL93/SP | C130/M130 | 12 | 16000 | 16500 | 2200 | | 3000 | 90 | 12 Spotlight, UV Control, Vertical +/-60 degrees; Electronic Ballast | | 33,39,51 | 107 |
| | | O | U | 39 | 2.28 | | 62293 | CMH39MR16UL93/FL | C130/M130 | 12 | 5500 | 16500 | 2200 | | 3000 | 90 | 25 Spotlight, UV Control, Vertical +/-60 degrees; Electronic Ballast | | 33,39,51 | 107 |
| | | O | U | 39 | 2.28 | | 62294 | CMH39MR16UL93WFL | C130/M130 | 12 | 3000 | 16500 | 2200 | | 3000 | 90 | 40 Spotlight, UV Control, Vertical +/-60 degrees; Electronic Ballast | | 33,39,51 | 107 |
| CMH® MR16 | | | | | | | | | | | | | | | | | | | | |
| MR16 | GX10 | O | U | 20 | 2.28 | | 85101 | CMH20MR16/830/SP | C156/M156 | 12 | 9000 | 12000 | 1000 | | 3000 | 81 | 12 Spotlight, UV Control | | 33,39,51 | 107 |
| | | O | U | 20 | 2.28 | | 85110 | CMH20MR16/830/FL | C156/M156 | 12 | 2900 | 12000 | 1000 | | 3000 | 81 | 25 Floodlight, UV Control | | 33,39,51 | 107 |
| | | O | U | 20 | 2.28 | | 97638 | CMH20MR16/830WFL | C156/M156 | 12 | 1500 | 12000 | 1000 | | 3000 | 81 | 40 Wideflood, UV Control | | 33,39,51 | 107 |
| | | O | U | 39 | 2.28 | | 71488 | CMH39MR16/930/SP | C130/M130 | 12 | 16000 | 10000 | 2200 | | 3000 | 90 | 12 Spotlight, UV Control | | 33,39,51 | 107 |
| | | O | U | 39 | 2.28 | | 71489 | CMH39MR16/930/FL | C130/M130 | 12 | 5500 | 10000 | 2200 | | 3000 | 90 | 25 Floodlight, UV Control | | 33,39,51 | 107 |
| | | O | U | 39 | 2.28 | | 71490 | CMH39MR16/930WFL | C130/M130 | 12 | 3000 | 10000 | 2200 | | 3000 | 90 | 40 Wideflood, UV Control | | 33,39,51 | 107 |
| | | O | U | 39 | 2.28 | | 71491 | CMH39MR16/942/SP | C130/M130 | 12 | 16000 | 12000 | 2200 | | 4000 | 92 | 12 Spotlight, UV Control | | 33,39,51 | 107 |
| | | O | U | 39 | 2.28 | | 71492 | CMH39MR16/942/FL | C130/M130 | 12 | 5500 | 12000 | 2200 | | 4000 | 92 | 25 Floodlight, UV Control | | 33,39,51 | 107 |
| | | O | U | 39 | 2.28 | | 71493 | CMH39MR16/942WFL | C130/M130 | 12 | 3000 | 12000 | 2200 | | 4000 | 92 | 40 Wideflood, UV Control | | 33,39,51 | 107 |
| CMH® PAR Integral Ballast | | | | | | | | | | | | | | | | | | | | |
| PAR38 | E26 | O | U | 23 | 5.35 | | 76224 | CMHi23P38SP/ECO | | 6 | 28000 | 12000 | 1400 | | 3000 | 81 | 10 Spotlight, UV Control | | 33,39 | 100 |
| | | O | U | 23 | 5.35 | | 76225 | CMHi23P38FL/ECO | | 6 | 6000 | 12000 | 1400 | | 3000 | 81 | 25 Floodlight, UV Control | | 33,39 | 100 |
| | | O | U | 23 | 5.35 | | 76226 | CMHi23P38WFL/ECO | | 6 | 2800 | 12000 | 1400 | | 3000 | 81 | 36 Wideflood, UV Control | | 33,39 | 100 |
| CMH® PAR | | | | | | | | | | | | | | | | | | | | |
| PAR20 | E26 | O | U | 20 | 3.60 | | 29485 | CMH20PAR20/SP | C156/M156 | 15 | 13000 | 12000 | 1000 | | 3000 | 81 | 8 Spotlight, UV Control | | 33,39,51 | 107 |
| | | O | U | 20 | 3.60 | | 29486 | CMH20PAR20/FL | C156/M156 | 15 | 3750 | 12000 | 1000 | | 3000 | 81 | 25 Floodlight, UV Control | | 33,39,51 | 107 |
| PAR30L | E26 | O | U | 20 | 4.75 | | 29487 | CMH20PAR30/SP10 | C156/M156 | 6 | 19800 | 12000 | 1200 | | 3000 | 81 | 10 Spotlight, UV Control | | 33,39,51 | 107 |
| | | O | U | 20 | 4.75 | | 29488 | CMH20PAR30/SP15 | C156/M156 | 6 | 14500 | 12000 | 1200 | | 3000 | 81 | 15 Spotlight, UV Control | | 33,39,51 | 107 |
| | | O | U | 20 | 4.75 | | 29489 | CMH20PAR30/FL25 | C156/M156 | 6 | 4900 | 12000 | 1200 | | 3000 | 81 | 25 Floodlight, UV Control | | 33,39,51 | 107 |
| PAR20 | E26 | O | U | 39 | 3.60 | | 42068 | CMH39UPAR20FL25 | C130/M130 | 15 | 7500 | 10000 | 2100 | | 3000 | 86 | 25 Floodlight, UV Control | | 33,39,45 | 107 |
| | | O | U | 39 | 3.60 | | 42069 | CMH39UPAR20SP10 | C130/M130 | 15 | 22000 | 10000 | 2100 | | 3000 | 86 | 10 Spotlight, UV Control | | 33,39,45 | 107 |
| | | O | U | 39 | 3.60 | | 96526 | CMH39PAR20/NSP4K | C130/M130 | 15 | 19450 | 10000 | 1950 | | 4200 | 90 | 10 Spotlight, UV Control | | 33,39,45 | 107 |
| | | O | U | 39 | 3.60 | | 96527 | CMH39PAR20/FL4K | C130/M130 | 15 | 6950 | 10000 | 1950 | | 4200 | 90 | 25 Floodlight, UV Control | | 33,39,45 | 107 |
| PAR30L | E26 | O | U | 39 | 4.75 | | 42066 | CMH39PAR30L/SP15 | C130/M130 | 6 | 29000 | 10000 | 2400 | | 3000 | 81 | 15 Spotlight, UV Control | | 33,39,45 | 107 |
| | | O | U | 39 | 4.75 | | 42067 | CMH39PAR30L/FL25 | C130/M130 | 6 | 11000 | 10000 | 2400 | | 3000 | 81 | 25 Floodlight, UV Control | | 33,39,45 | 107 |
| | | O | U | 39 | 4.75 | | 45066 | CMH39/PAR30LSP10 | C130/M130 | 6 | 39600 | 10000 | 2400 | | 3000 | 81 | 10 Spotlight, UV Control | | 33,39,45 | 107 |
| | | O | U | 39 | 4.75 | | 96528 | CMH39PAR30LNSP4K | C130/M130 | 6 | 36700 | 10000 | 2225 | | 4200 | 89 | 10 Spotlight, UV Control | | 33,39,45 | 107 |
| | | O | U | 39 | 4.75 | | 96529 | CMH39PAR30L/SP4K | C130/M130 | 6 | 26900 | 10000 | 2225 | | 4200 | 89 | 15 Spotlight, UV Control | | 33,39,45 | 107 |
| | | O | U | 39 | 4.75 | | 96530 | CMH39PAR30L/FL4K | C130/M130 | 6 | 10200 | 10000 | 2225 | | 4200 | 89 | 25 Floodlight, UV Control | | 33,39,45 | 107 |
| | | O | U | 70 | 4.75 | | 22152 | CMH70PAR30L830SP | C139/M98 | 6 | 43000 | 13000 | 4700 | | 3000 | 82 | 15 Spotlight, UV Control | | 33,39,45 | 107 |
| | | O | U | 70 | 4.75 | | 22159 | CMH70PAR30L830FL | C139/M98 | 6 | 10000 | 13000 | 4700 | | 3000 | 82 | 40 Floodlight, UV Control | | 33,39,45 | 107 |

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4. All footnotes, warning and caution notices found at the end of this section (page 3-19).

High Intensity Discharge Lamps

| Bulb Shape | Base | LET | OP | Watts | MOL (in) | LCL (in) | Order Code | Description | ANSI Ballast Type | Case Qty | CBCP | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Additional Information | Reduced Watts/ High Color Rendering | Footnotes | Warning and Caution Notices |
|---|------|-----|-----|-------|----------|----------|------------------|------------------|-------------------|----------|-------|------------------|----------------|---------------|--------------|--------|--|-------------------------------------|-----------|-----------------------------|
| Constant Color CMH® Metal Halide Lamps (continued) | | | | | | | | | | | | | | | | | | | | |
| CMH® PAR (continued) | | | | | | | | | | | | | | | | | | | | |
| PAR38 | E26 | O | U | 70 | 5.31 | | 45675 | CMH70PAR38SP/ECO | C98/ M139/ M143/ | 6 | 40000 | 10000 | 4800 | | 3000 | 82 | 15 Spotlight, UV Control | | 33,39 | 108 |
| | | O | U | 70 | 5.31 | | 45677 | CMH70PAR38FL/ECO | C98/ M139/ M143/ | 6 | 14000 | 10000 | 4800 | | 3000 | 82 | 25 Floodlight, UV Control | | 33,39 | 108 |
| | | O | U | 70 | 5.31 | | 45679 | CMH70PAR38WF/ECO | C98/ M139/ M143/ | 6 | 4400 | 10000 | 4800 | | 3000 | 82 | 60 Wide Floodlight, UV Control | | 33,39 | 108 |
| | | O | U | 100 | 5.31 | | 45680 | CMH100PAR38SPECO | C90/ M90/ M140 | 6 | 45000 | 10000 | 6500 | | 3000 | 81 | 15 Spotlight, UV Control | | 33,39 | 108 |
| | | O | U | 100 | 5.31 | | 45681 | CMH100PAR38FLECO | C90/ M90/ M140 | 6 | 15000 | 10000 | 6500 | | 3000 | 81 | 25 Floodlight, UV Control | | 33,39 | 108 |
| | | O | U | 100 | 5.31 | | 45682 | CMH100PAR38WFECO | C90/ M90/ M140 | 6 | 5500 | 10000 | 6500 | | 3000 | 81 | 60 Wide Floodlight, UV Control | | 33,39 | 108 |
| CMH® Elliptical | | | | | | | | | | | | | | | | | | | | |
| BD17 | E26 | E | U | 70 | 5.43 | 3.37 | 22119 | CMH70/U/830/MED | M139/ M98/ C98 | 6 | | 15000 | 6300 | 4100 | 3000 | 80 | Clear | | 33 | 116 |
| | | E | U | 70 | 5.43 | 3.37 | 22124 | CMH70/C/U/830MED | M139/ M98/ C98 | 6 | | 15000 | 6000 | 4000 | 3000 | 80 | Coated | | 33 | 116 |
| | | E | U | 100 | 5.43 | 3.37 | 22127 | CMH100/U/830/MED | C90/ M90/ M140 | 6 | | 10000 V 15000 H | 9200 | 6600 V 6400 H | 3000 | 83 | Clear | | 33 | 116 |
| | | E | U | 100 | 5.43 | 3.37 | 22137 | CMH100/C/U830MED | C90/ M90/ M140 | 6 | | 10000 V 15000 H | 8700 | 6300 | 3000 | 83 | Coated | | 33 | 116 |
| CMH® Elliptical Open-Rated | | | | | | | | | | | | | | | | | | | | |
| ED17 | E26 | O | U | 70 | 5.43 | 3.37 | 31069 | CMH70U830MED/O | M143/ M98/ C98 | 6 | | 15000 | 5700 | 4100 | 3000 | 80 | Clear | | 33 | 106 |
| | | O | U | 70 | 5.43 | 3.37 | 31070 | CMH70CU830MED/O | M143/ M98/ C98 | 6 | | 15000 | 5700 | 4100 | 3000 | 80 | Coated | | 33 | 106 |
| | | O | U | 70 | 5.43 | 3.37 | 31073 | CMH70U942MED/O | M143/ M98/ C98 | 6 | | 15000 | 5500 | 4200 | 4000 | 90 | Clear | | 33 | 106 |
| | | O | U | 70 | 5.43 | 3.37 | 31074 | CMH70CU942MED/O | M143/ M98/ C98 | 6 | | 15000 | 5200 | 4000 | 4000 | 90 | Coated | | 33 | 106 |
| | O | U | 150 | 5.43 | 3.37 | 31065 | CMH150U830MED/O | C102/ M102/ M142 | 6 | | 12000 | 12900 | 9500 | 3000 | 80 | Clear | | 33 | 106 | |
| | O | U | 150 | 5.43 | 3.37 | 31066 | CMH150CU830MED/O | C102/ M102/ M142 | 6 | | 12000 | 11900 | 8800 | 3000 | 80 | Coated | | 33 | 106 | |
| | O | U | 150 | 5.43 | 3.37 | 31067 | CMH150U942MED/O | C102/ M102/ M142 | 6 | | 15000 | 12000 | 9000 | 4200 | 90 | Clear | | 33 | 106 | |
| | O | U | 150 | 5.43 | 3.37 | 31068 | CMH150CU942MED/O | C102/ M102/ M142 | 6 | | 15000 | 11000 | 8300 | 4200 | 90 | Coated | | 33 | 106 | |
| CMH® Single-Ended G12 ULTRA | | | | | | | | | | | | | | | | | | | | |
| T6 | G12 | E | U | 39 | 3.56 | 2.18 | 79399 | CMH39/930G12ULR | C130/ M130 | 12 | | 16500 | 3600 | 3060 | 3000 | 87 | UV Control, Vertical +/-60 degrees; Electronic Ballast | | 33,39,51 | 104 |
| | | E | U | 70 | 3.56 | 2.18 | 73056 | CMH70U930G12ULR | C139/ M139 | 12 | | 18000 | 6400 | 5300 | 3000 | 87 | UV Control | | 33,39,45 | 104 |

| Bulb Shape | Base | LET | OP | Watts | MOL (in) | LCL (in) | Order Code | Description | ANSI Ballast Type | Case Qty | CBCP | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Additional Information | Reduced Watts/High Color Rendering | Footnotes | Warning and Caution Notices |
|---|-------|-----|-----|-------|----------|----------|------------|-------------------|-------------------|----------|------|------------------|----------------|-------------|--------------|---------|--|------------------------------------|-------------|-----------------------------|
| Constant Color CMH® Metal Halide Lamps (continued) | | | | | | | | | | | | | | | | | | | | |
| CMH® Single-Ended G12 | | | | | | | | | | | | | | | | | | | | |
| T4.5 | G12 | E | U | 20 | 3.56 | 2.18 | 29703 | CMH20T/U/830/G12 | C156/M156 | 12 | | 12000 | 1600 | 1200 | 3000 | 81 | UV Control | | 33,39,51 | 104 |
| | | E | U | 39 | 3.56 | 2.18 | 20153 | CMH39TUVUCU830G12 | C130/M130 | 12 | | 16500 | 3400 | 2300 | 3000 | 84 | UV Control | | 33,39,45,53 | 104 |
| | | E | U | 39 | 3.56 | 2.18 | 29696 | CMH39T/U/942/G12 | C130/M130 | 12 | | 18000 | 3200 | 2600 | 4200 | 88 | UV Control | | 33,39,45,53 | 104 |
| T6 | G12 | E | U | 70 | 3.56 | 2.18 | 20016 | CMH70TU/830/G12 | C139/M139 | 12 | | 15000 | 6200 | 4700 | 3000 | 83 | UV Control | | 33,39,45 | 104 |
| | | E | U | 70 | 3.56 | 2.18 | 20023 | CMH70TU/942/G12 | C139/M139 | 12 | | 15000 | 6300 | 4700 | 4200 | 91 | UV Control | | 33,39,45 | 104 |
| | | E | U | 150 | 3.93 | 2.18 | 20017 | CMH150TU/830/G12 | C142/M102 | 12 | | 12000 | 14000 | 11000 | 3000 | 82 | UV Control | | 33,39,45 | 104 |
| | | E | U | 150 | 3.93 | 2.18 | 20018 | CMH150TU/942/G12 | C142/M102 | 12 | | 12000 | 13000 | 11000 | 4200 | 94 | UV Control | | 33,39,45 | 104 |
| CMH® Double-Ended TD | | | | | | | | | | | | | | | | | | | | |
| T6 | Rx7s | E | H45 | 70 | 4.50 | 2.25 | 92587 | CMH70TD/830RX7S | M85/M139 | 12 | | 15000 | 7000 | 5600 | 3000 | 81 | UV Control | | 33,39 | 109 |
| | | E | H45 | 70 | 4.50 | 2.25 | 92588 | CMH70TD/942RX7S | M85/M139 | 12 | | 15000 | 7000 | 5600 | 4200 | 88 | UV Control | | 33,39 | 109 |
| T7 | Rx7s | E | H45 | 150 | 5.37 | 2.62 | 92589 | CMH150TD830RX7S | M81/M142 | 12 | | 15000 | 14000 | 11500 | 3000 | 80 | UV Control | | 33,39 | 109 |
| | | E | H45 | 150 | 5.37 | 2.62 | 92590 | CMH150TD942RX7S | M81/M142 | 12 | | 15000 | 14000 | 11500 | 4200 | 93 | UV Control | | 33,39 | 109 |
| CMH® GU6.5 ULTRA | | | | | | | | | | | | | | | | | | | | |
| T4 | GU6.5 | E | U | 39 | 2.05 | 1.18 | 62291 | CMH39ULR930GU6.5 | C130/M130 | 12 | | 16500 | 3500 | 2835 | 3000 | 87 | UV Control, Vertical +/-60 degrees; Electronic Ballast | | 33,39,51 | 104 |
| CMH® GU6.5 | | | | | | | | | | | | | | | | | | | | |
| T4 | GU6.5 | E | U | 20 | 2.05 | 1.18 | 85086 | CMH20T/U830GU6.5 | C156/M156 | 12 | | 12000 | 1615 | 1066 | 3000 | 81 | UV Control | | 33,39,51 | 104 |
| | | E | U | 39 | 2.05 | 1.18 | 71484 | CMH39T/U930GU6.5 | C130/M130 | 12 | | 10000 | 3400 | 2300 | 3000 | 88 | UV Control | | 33,39,51 | 104 |
| | | E | U | 39 | 2.05 | 1.18 | 71487 | CMH39T/U942GU6.5 | C130/M130 | 12 | | 12000 | 3400 | 2600 | 4000 | 90 | UV Control | | 33,39,51 | 104 |
| CMH® Mini ULTRA | | | | | | | | | | | | | | | | | | | | |
| T4.5 | G8.5 | E | U | 39 | 3.37 | 2 | 79400 | CMH39/930G8.5ULR | C130/M130 | 12 | | 16500 | 3600 | 3060 | 3000 | 87 | UV Control, Vertical +/-60 degrees; Electronic Ballast | | 33,39,51 | 104 |
| | | E | U | 70 | 3.37 | 2.00 | 73057 | CMH70U930G8.5ULR | C139/M139 | 12 | | 18000 | 6200 | 5140 | 3000 | 88 | UV Control | | 33,39,45 | 104 |
| CMH® Mini's | | | | | | | | | | | | | | | | | | | | |
| T4.5 | G8.5 | E | U | 20 | 3.37 | 2.00 | 92696 | CMH20TCU830/G8.5 | C156/M156 | 12 | | 12000 | 1650 | 1090 | 3000 | 81 | UV Control | | 33,39,51 | 104 |
| | | E | U | 39 | 3.37 | 2.00 | 90352 | CMH39TCU830/G8.5 | C130/M130 | 12 | | 16500 | 3400 | 2300 | 3000 | 84 | UV Control | | 33,39,45,53 | 104 |
| | | E | U | 39 | 3.37 | 2.00 | 29698 | CMH39TCU942/G8.5 | C130/M130 | 12 | | 18000 | 3200 | 2600 | 4200 | 88 | UV Control | | 33,39,45,53 | 104 |
| | | E | U | 70 | 3.37 | 2.00 | 92585 | CMH70TCU830G8.5 | C139/M139 | 12 | | 15000 | 6200 | 4400 | 3000 | 83 | UV Control | | 33,39,45 | 104 |
| | | E | U | 70 | 3.37 | 2.00 | 29701 | CMH70TCU942/G8.5 | C139/M139 | 12 | | 15000 | 6200 | 4600 | 4200 | 90 | UV Control | | 33,39,45 | 104 |
| CMH® Chromafit™ | | | | | | | | | | | | | | | | | | | | |
| T15 | E39 | E | U | 250 | 9.75 | 5.75 | 93357 | CMH250U/830/R | S50/M168 | 12 | | 24000 | 25000 | 20000 | 3000 | 85 | | | 33 | 105 |
| ED18 | E39 | E | U | 400 | 9.75 | 5.75 | 93295 | CMH400U/830/R | S51/M169 | 12 | | 20000 | 41000 | 31300 | 3000H 3600V | 82H 80V | | | 33,45,49 | 105 |
| High-Watt CMH® SPXX | | | | | | | | | | | | | | | | | | | | |
| ED28 | EX39 | O | V | 250 | 8.31 | 5.00 | 48429 | CMH250V/PA/O | | 12 | | 20000 | 23000 | 18400 | 4100 | 90 | Clear | | 33,45,52 | 106 |
| | | O | V | 250 | 8.31 | 5.00 | 48432 | CMH250C/V/PA/O | | 12 | | 20000 | 22000 | 17600 | 4100 | 90 | Coated | | 33,45,52 | 106 |
| ED37 | EX39 | O | V | 320 | 11.31 | 7.00 | 17264 | CMH320V/PA/O | | 6 | | 20000 | 31000 | 24800 | 4100 | 90 | Clear | | 33,45,52 | 106 |
| | | O | V | 320 | 11.31 | 7.00 | 17267 | CMH320C/V/PA/O | | 6 | | 20000 | 30000 | 24000 | 4100 | 90 | Coated | | 33,45,52 | 106 |
| | | O | V | 350 | 11.31 | 7.00 | 20035 | CMH350V/PA/O | | 6 | | 20000 | 33000 | 26400 | 4000 | 90 | Clear | | 33,45,52 | 106 |
| | | O | V | 350 | 11.31 | 7.00 | 20036 | CMH350C/V/PA/O | | 6 | | 20000 | 32000 | 25600 | 4000 | 90 | Coated | | 33,45,52 | 106 |
| | | O | V | 400 | 11.31 | 7 | 17259 | CMH400V/PA/O | | 6 | | 20000 | 37000 | 29600 | 4200 | 90 | Clear | | 33,45,52 | 106 |
| | | O | V | 400 | 11.31 | 7 | 17260 | CMH400C/V/PA/O | | 6 | | 20000 | 36000 | 28800 | 4200 | 90 | Coated | | 33,45,52 | 106 |

High Intensity Discharge Lamps

| Bulb Shape | Base | LET | OP | Watts | MOL (in) | LCL (in) | Order Code | Description | ANSI Ballast Type | Case Qty | CBCP | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Additional Information | Reduced Watts/ High Color Rendering | Footnotes | Warning and Caution Notices |
|--|------|-----|-----|-------|----------|----------|------------|---------------------|-------------------|----------|------|------------------|----------------|---------------|--------------|-----|---------------------------|-------------------------------------|-----------|-----------------------------|
| PulseArc® Multi-Vapor® Metal Halide Lamps | | | | | | | | | | | | | | | | | | | | |
| 50 Watts | | | | | | | | | | | | | | | | | | | | |
| BD17 | E26 | E | U | 50 | 5.43 | 3.43 | 10361 | MXR50/U/MED | M110 | 6 | | 10000 | 3200 | 2100 | 3700 | 60 | Clear | | | 118 |
| | | E | U | 50 | 5.43 | 3.43 | 10364 | MXR50/C/U/MED | M110 | 6 | | 10000 | 3000 | 2000 | 3400 | 65 | Coated | | | 118 |
| 70 Watts | | | | | | | | | | | | | | | | | | | | |
| BD17 | E26 | E | U | 70 | 5.43 | 3.43 | 22158 | MXR70/U/MED | M98 | 6 | | 12000 | 5500 | 3500 | 3500 | 55 | Clear | | | 118 |
| | | E | U | 70 | 5.43 | 3.43 | 22162 | MXR70/C/U/MED | M98 | 6 | | 12000 | 5300 | 3300 | 3200 | 55 | Coated | | | 118 |
| | | E | U | 70 | 5.43 | 3.43 | 12590 | MVR70/U/MED | M98 | 6 | | 12000 | 5500 | 3000 | 4000 | 65 | Clear | | | 118 |
| | | E | U | 70 | 5.43 | 3.43 | 12594 | MVR70/C/U/MED | M98 | 6 | | 12000 | 5250 | 2800 | 4000 | 65 | Coated | | | 118 |
| 100 Watts | | | | | | | | | | | | | | | | | | | | |
| BD17 | E26 | E | U | 100 | 5.43 | 3.43 | 18680 | MXR100/U/MED | M90 | 6 | | 15000 | 9000 | 6200 | 3200 | 65 | Clear | | | 118 |
| | | E | U | 100 | 5.43 | 3.43 | 18679 | MXR100/C/U/MED | M90 | 6 | | 15000 | 8500 | 5900 | 3200 | 65 | Coated | | | 118 |
| | | E | U | 100 | 5.43 | 3.43 | 12652 | MVR100/U/MED | M90 | 6 | | 15000 | 9500 | 5800 | 4000 | 70 | Clear | | | 118 |
| | | E | U | 100 | 5.43 | 3.43 | 12653 | MVR100/C/U/MED | M90 | 6 | | 15000 | 8800 | 4900 | 4000 | 70 | Coated | | | 118 |
| 150 Watts | | | | | | | | | | | | | | | | | | | | |
| BD17 | E26 | E | U | 150 | 5.43 | 3.43 | 22935 | MXR150/U/MED | M102 | 6 | | 15000 | 13300 | 10000 | 3400 | 60 | Clear | | | 118 |
| | | E | U | 150 | 5.43 | 3.43 | 22936 | MXR150/C/U/MED | M102 | 6 | | 15000 | 12600 | 9500 | 3100 | 60 | Coated | | | 118 |
| | | E | U | 150 | 5.43 | 3.43 | 12598 | MVR150/U/MED | M102 | 6 | | 15000 | 14000 | 10500 | 4300 | 65 | Clear | | | 118 |
| | | E | U | 150 | 5.43 | 3.43 | 12604 | MVR150/C/U/MED | M102 | 6 | | 15000 | 13300 | 10000 | 3900 | 70 | Coated | | | 118 |
| 175 Watts | | | | | | | | | | | | | | | | | | | | |
| ED23.5 | E39 | E | VBU | 175 | 7.50 | 5.00 | 11185 | MXR175/C/VBU/PA | M137/M152 | 6 | | 15000 | 16000 | 12000 | 3200 | 65 | Coated | | 43 | 117 |
| | | E | VBU | 175 | 7.50 | 5.00 | 12622 | MVR175/VBU/PA | M137/M152 | 6 | | 15000 | 17500 | 13000 | 4000 | 70 | Clear | | 43 | 117 |
| | | E | VBU | 175 | 7.50 | 5.00 | 12633 | MVR175/C/VBU/PA | M137/M152 | 6 | | 15000 | 16500 | 12500 | 4000 | 70 | Coated | | 43 | 117 |
| BD17 | E26 | E | VBU | 175 | 5.75 | 3.43 | 12636 | MVR175/VBU/MEDPA | M137/M152 | 6 | | 15000 | 17500 | 13000 | 4000 | 70 | Clear | | 43 | 117 |
| | | E | VBU | 175 | 5.75 | 3.43 | 12637 | MVR175/CVBU/MEDPA | M137/M152 | 6 | | 15000 | 16500 | 12500 | 4000 | 70 | Coated | | 43 | 117 |
| 250 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | E39 | E | U | 250 | 8.25 | 5.00 | 78665 | MVR250/U/PA | M138/M153 | 12 | | 12000H/15000V | 18600H/22400V | 12000H/14000V | 3900 | 60 | Clear | | 43 | 116 |
| | | E | VBU | 250 | 8.25 | 5.00 | 26317 | MVR250/VBU/PA | M138/M153 | 12 | | 15000 | 23000 | 17000 | 4200 | 55 | Clear | | 43 | 116 |
| | | E | VBU | 250 | 8.25 | 5.00 | 26319 | MVR250/C/VBU/PA | M138/M153 | 12 | | 15000 | 21500 | 15500 | 3900 | 55 | Coated | | 43 | 116 |
| | | E | HOR | 250 | 8.25 | 5.00 | 72882 | MVR250/HOR/PA | M138/M153 | 12 | | 12000 | 20000 | 13700 | 4400 | 60 | Clear | | 43 | 117 |
| 320 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | E39 | E | VBU | 320 | 8.25 | 5.00 | 27501 | MVR320/VBU/HO/PA | M132/M154 | 12 | | 20000 | 31000 | 18000 | 4000 | 60 | Clear | | 43 | 117 |
| | | E | VBU | 320 | 8.25 | 5.00 | 27502 | MVR320/C/VBU/HOPA | M132/M154 | 12 | | 20000 | 30000 | 16500 | 3700 | 60 | Coated | | 43 | 117 |
| | | E | VBU | 320 | 8.25 | 5.00 | 45666 | MVR320/VBU/XHO/PA | M132/M154 | 12 | | 20000 | 34000 | 25000 | 4000 | 65 | Extra High Output | | 43 | 116 |
| | | E | VBU | 320 | 8.25 | 5.00 | 45669 | MVR320/C/VBU/XHO/PA | M132/M154 | 12 | | 20000 | 33000 | 23000 | 3700 | 70 | Extra High Output | | 43 | 116 |
| | | E | HOR | 320 | 8.25 | 5.00 | 72884 | MVR320/HOR/PA | M132/M154 | 12 | | 20000 | 30000 | 19100 | 4100 | 65 | Clear | | 43 | 117 |
| 350 Watts | | | | | | | | | | | | | | | | | | | | |
| ED37 | E39 | E | VBU | 350 | 11.50 | 7.00 | 23729 | MVR350VBUXHOPA/E | M131 | 6 | | 20000 | 36500 | 27000 | 4000 | 60 | Extra High Output | | 43 | 117 |
| | | E | VBU | 350 | 11.50 | 7.00 | 23738 | MVR350VBUXHOPA/E | M131 | 6 | | 20000 | 34500 | 25000 | 3700 | 60 | Extra High Output | | 43 | 117 |
| 400 Watts | | | | | | | | | | | | | | | | | | | | |
| ED37 | E39 | E | U | 400 | 11.50 | 7.00 | 78666 | MVR400/U/PA | M135/M155 | 6 | | 15000H/20000V | 31200H/39400V | 18000H/22000V | 4000 | 60 | Clear | | 43 | 116 |
| | | S | VBU | 400 | 11.50 | 7.00 | 45664 | MVR400/VBU/HO/PA | M135/M155 | 6 | | 20000 | 41000 | 31000 | 4000 | 60 | Clear | | 49 | 121 |
| | | S | VBU | 400 | 11.50 | 7.00 | 12642 | MVR400/VBU/XHOPA | M135/M155 | 6 | | 20000 | 44000 | 33000 | 4000 | 55 | Extra High Output | | 49 | 121 |
| | | S | VBU | 400 | 11.50 | 7.00 | 12644 | MVR400/CVBUXHOPA | M135/M155 | 6 | | 20000 | 42000 | 31500 | 3700 | 55 | Coated, Extra High Output | | 49 | 121 |
| | | E | HOR | 400 | 11.50 | 7.00 | 72886 | MVR400/HOR/PA | M135/M155 | 6 | | 20000 | 40000 | 22300 | 4100 | 65 | Clear | | 43,49 | 117 |
| | | E | VBD | 400 | 11.50 | 7.00 | 46632 | MVR400VBD/XHO/PA | M135/M155 | 6 | | 20000 | 44000 | 35200 | 4000 | 65 | Extra High Output | | 43,49 | 116 |

| Bulb Shape | Base | LET | OP | Watts | MOL (in) | LCL (in) | Order Code | Description | ANSI Ballast Type | Case Qty | CBCP | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Additional Information | Reduced Watts/High Color Rendering | Footnotes | Warning and Caution Notices |
|--|--------|-----|-----|-------|----------|----------|------------|--------------------|-------------------|----------|------|------------------|-----------------|---------------|--------------|-----|----------------------------------|------------------------------------|-----------|-----------------------------|
| PulseArc® Multi-Vapor® Metal Halide Lamps (continued) | | | | | | | | | | | | | | | | | | | | |
| ED28 | E39 | E | VBU | 400 | 8.25 | 5.00 | 46271 | MVR400/VBUED28PA | M135/M155 | 12 | | 20000 | 44000 | 28500 | 4000 | 65 | Clear | | 43,49 | 116 |
| | | E | VBU | 400 | 8.25 | 5.00 | 46272 | MVR400CVBUED28PA | M135/M155 | 12 | | 20000 | 42000 | 27500 | 3700 | 70 | Coated Compact | | 43,49 | 116 |
| | | E | HOR | 400 | 8.25 | 5.00 | 72885 | MVR400/HOR/ED28/PA | M135/M155 | 12 | | 20000 | 38000 | 21400 | 4100 | 65 | Clear Compact | | 43,49 | 117 |
| 750 Watts | | | | | | | | | | | | | | | | | | | | |
| BT37 | E39 | E | VBU | 750 | 11.50 | 7.00 | 27219 | MVR750/VBU/PA | M149 | 6 | | 16000 | 82000 | 60000 | 4000 | 65 | Clear | | 49 | 117 |
| | | E | VBU | 750 | 11.50 | 7.00 | 45560 | MVR750/C/VBU/PA | M149 | 6 | | 16000 | 72000 | 54000 | 3700 | 70 | Coated | | 49 | 117 |
| 1000 Watts | | | | | | | | | | | | | | | | | | | | |
| BT37 | E39 | E | U | 1000 | 11.50 | 7.00 | 10389 | MVR1000U/BT37/PA | M141 | 6 | | 9000H/12000V | 105000H/115000V | 82000H/90000V | 3900 | 65 | Clear | | 43,49 | 116 |
| Multi-Vapor® Metal Halide Lamps | | | | | | | | | | | | | | | | | | | | |
| 150 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | E39 | E | U | 150 | 8.25 | 5.00 | 13481 | MVR150/U/WM | M57/M107 | 12 | | 7500H/10000V | 11500H/13500V | 7200H/8500V | 4000 | 65 | Clear, Watt-Miser® | ↔ | | 117 |
| | | E | U | 150 | 8.25 | 5.00 | 13490 | MVR150/C/U/WM | M57/M107 | 12 | | 7500H/10000V | 10900H/12800V | 6900H/8000V | 3700 | 70 | Coated, Watt-Miser® | ↔ | | 117 |
| 175 Watts | | | | | | | | | | | | | | | | | | | | |
| BD17 | E26 | E | U | 175 | 5.75 | 3.43 | 18902 | MVR175/U/MED | M57 | 6 | | 6000H/10000V | 11700H/14000V | 7400H/8800V | 4000 | 60 | Clear | | | 117 |
| | | E | U | 175 | 5.75 | 3.43 | 26432 | MVR175/U/MED/CP | M57 | 4 | | 6000H/10000V | 11700H/13600V | 7400H/8800V | 4000 | 65 | Clear, Consumer Pack | | | 117 |
| | | E | U | 175 | 5.75 | 3.43 | 19976 | MVR175/C/U/MED | M57 | 6 | | 6000H/10000V | 11900H/12900V | 7900H/8400V | 3900 | 60 | Coated | | | 117 |
| ED28 | E39 | E | U | 175 | 8.25 | 5.00 | 47760 | MVR175/U | M57 | 12 | | 6000H/10000V | 11700H/13600V | 7900H/8800V | 4000 | 55 | Clear | | | 117 |
| | | E | U | 175 | 8.25 | 5.00 | 26433 | MVR175/U/CP | M57 | 4 | | 6000H/10000V | 11700H/13600V | 7900H/8800V | 4000 | 65 | Clear, Consumer Pack | | | 117 |
| | | E | U | 175 | 8.25 | 5.00 | 47761 | MVR175/C/U | M57 | 12 | | 6000H/10000V | 11900H/12900V | 7900H/8400V | 3900 | 55 | Coated | | | 117 |
| | | E | U | 175 | 8.25 | 5.00 | 17634 | MVR175/SP30/U | M57 | 12 | | 6000H/10000V | 10300H/12000V | 6500H/7600V | 3000 | 70 | RE730 Phosphor Coating | | | 117 |
| PAR38 | E26 | E | U | 175 | 5.62 | | 25218 | MVR175/PAR38/FL1 | M57 | 6 | 6500 | 7500 | 12000 | | 3800 | 65 | Clear, One-Piece PAR | | | 117 |
| 250 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | E39 | E | U | 250 | 8.25 | 5.00 | 42729 | MVR250/U | M58 | 12 | | 6000H/10000V | 19100H/20800V | 12400H/13500V | 4200 | 60 | Clear | | | 117 |
| | | E | U | 250 | 8.25 | 5.00 | 26434 | MVR250/U/CP | M58 | 4 | | 6000H/10000V | 19100H/20800V | 12400H/13500V | 4200 | 65 | Clear, Consumer Pack | | | 117 |
| | | E | U | 250 | 8.25 | 5.00 | 42731 | MVR250/C/U | M58 | 12 | | 6000H/10000V | 18200H/19800V | 11600H/13000V | 3900 | 60 | Coated | | | 117 |
| | | E | U | 250 | 8.25 | 5.00 | 17633 | MVR250/SP30/U | M58 | 12 | | 6000H/10000V | 16600H/18000V | 10600H/11500V | 3000 | 70 | RE730 Phosphor Coating | | | 117 |
| 360 Watts | | | | | | | | | | | | | | | | | | | | |
| ED37 | E39 | S | U | 360 | 11.50 | 7.00 | 13495 | MVR360/U/WM/HO | M59/M165 | 6 | | 20000 | 36000 | 20000 | 4300 | 60 | Clear, Watt-Miser® | ↔ | 32,49 | 121 |
| 400 Watts | | | | | | | | | | | | | | | | | | | | |
| ED37 | E39 | S | U | 400 | 11.50 | 7.00 | 43828 | MVR400/U | M59 | 6 | | 15000H/20000V | 33100H/38000V | 22100H/23500V | 4000 | 60 | Clear | | 49 | 121 |
| | | S | U | 400 | 11.50 | 7.00 | 26435 | MVR400/U/CP | M59 | 4 | | 15000H/20000V | 33100H/36000V | 22100H/23500V | 4000 | 65 | Clear, Consumer Pack | | 49 | 121 |
| | | S | U | 400 | 11.50 | 7.00 | 43829 | MVR400/C/U | M59 | 6 | | 15000H/20000V | 32200H/36000V | 19300H/23000V | 3700 | 60 | Coated | | 49 | 121 |
| | | S | U | 400 | 11.50 | 7.00 | 17632 | MVR400/SP30/U | M59 | 6 | | 15000H/20000V | 28500H/31000V | 17100H/18600V | 3000 | 70 | RE730 Phosphor Coating | | 49 | 121 |
| ED28 | E39 | E | U | 400 | 8.25 | 5.00 | 18904 | MVR400/U/ED28 | M59 | 12 | | 15000H/20000V | 33100H/38000V | 22100H/23500V | 4000 | 60 | Clear, Compact | | 49 | 117 |
| | | E | U | 400 | 8.25 | 5.00 | 19979 | MVR400/C/U/ED28 | M59 | 12 | | 15000H/20000V | 32200H/36000V | 19300H/23000V | 4000 | 60 | Coated, Compact | | 49 | 117 |
| 1000 Watts | | | | | | | | | | | | | | | | | | | | |
| BT56 | E39 | S | U | 1000 | 15.37 | 9.50 | 41826 | MVR1000/U | M47 | 6 | | 11000H/15000V | 100280H/108000V | 79000H/86000V | 4000 | 65 | Clear | | 49 | 121 |
| | | S | U | 1000 | 15.37 | 9.50 | 41827 | MVR1000/C/U | M47 | 6 | | 11000H/15000V | 96600H/105000V | 73000H/80000V | 3700 | 65 | Coated | | 49 | 121 |
| BT37 | E39 | E | U | 1000 | 11.50 | 7.00 | 18205 | MVR1000U/BT37 | M47 | 6 | | 9000H/12000V | 105000H/115000V | 82000H/90000V | 3700 | 65 | Clear, Compact | | 49 | 121 |
| High Output and XHO Multi-Vapor® Metal Halide Lamps | | | | | | | | | | | | | | | | | | | | |
| 175 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | PosMog | E | HOR | 175 | 8.25 | 5.00 | 18105 | MVR175/C/HOR | M57 | 12 | | 10000 | 14100 | 7500 | 3500 | 70 | Coated, Position Oriented Socket | | | 117 |

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4. All footnotes, warning and caution notices found at the end of this section (page 3-19).

High Intensity Discharge Lamps

| Bulb Shape | Base | LET | OP | Watts | MOL (in) | LCL (in) | Order Code | Description | ANSI Ballast Type | Case Qty | CBCP | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Additional Information | Reduced Watts/ High Color Rendering | Footnotes | Warning and Caution Notices |
|--|--------|-----|-----|-------|----------|----------|------------|------------------|-------------------|----------|-----------|------------------|-----------------|-----------------|--------------|-----|----------------------------------|-------------------------------------|-----------|-----------------------------|
| High Output and XHO Multi-Vapor® Metal Halide Lamps (continued) | | | | | | | | | | | | | | | | | | | | |
| 250 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | PosMog | E | HOR | 250 | 8.25 | 5.00 | 18101 | MVR250/HOR | M58 | 12 | | 15000 | 21000 | 10000 | 4200 | 65 | Clear, Position Oriented Socket | | | 117 |
| | | E | HOR | 250 | 8.25 | 5.00 | 18103 | MVR250/C/HOR | M58 | 12 | | 15000 | 19700 | 9400 | 4000 | 65 | Coated, Position Oriented Socket | | | 117 |
| 360 Watts - Watt-Miser® Energy-Saving Replacement for 400W Metal Halide | | | | | | | | | | | | | | | | | | | | |
| ED37 | E39 | S | VBU | 360 | 11.50 | 7.00 | 40053 | MVR360VBU/WM/XHO | M59 | 6 | | 20000 | 37000 | 24000 | 4200 | 60 | Extra High Output | ↗ | 32,49 | 121 |
| | | S | VBU | 360 | 11.50 | 7.00 | 40055 | MVR360C/VBUWMXHO | M59 | 6 | | 20000 | 35000 | 23000 | 4000 | 60 | Extra High Output | ↗ | 32,49 | 121 |
| 400 Watts | | | | | | | | | | | | | | | | | | | | |
| ED37 | E39 | S | VBU | 400 | 11.50 | 7.00 | 49657 | MVR400/VBU/HO | M59 | 6 | | 20000 | 41000 | 26500 | 4000 | 60 | High Output | | 49 | 121 |
| | | S | VBU | 400 | 11.50 | 7.00 | 20931 | MVR400SP30VBU/HO | M59 | 6 | | 20000 | 34000 | 20400 | 3200 | 70 | RE730 Phosphor Coating | | 49 | 121 |
| | | S | VBU | 400 | 11.50 | 7.00 | 13923 | MVR400/VBU/XHO | M59 | 6 | | 20000 | 43000 | 28000 | 4000 | 55 | Extra High Output | | 49 | 121 |
| | | S | VBU | 400 | 11.50 | 7.00 | 13924 | MVR400/C/VBU/XHO | M59 | 6 | | 20000 | 42000 | 27000 | 3700 | 55 | Extra High Output | | 49 | 121 |
| ED28 | E39 | E | VBU | 400 | 8.31 | 5.00 | 40335 | MVR400/VBUED28HO | M59 | 12 | | 20000 | 41000 | 26500 | 4000 | 60 | Clear, Compact | | 49 | 121 |
| BT28 | E39 | E | HOR | 400 | 8.25 | 5.00 | 40201 | MVR400/HOR/BT28 | M59 | 12 | | 20000 | 37000 | 22000 | 4200 | 65 | Compact, Horizontal | | 49 | 117 |
| BT37 | E39 | E | HOR | 400 | 11.50 | 7.00 | 26218 | MVR400/HOR/MOG | M59 | 6 | | 20000 | 38000 | 22500 | 4200 | 65 | Clear | | 49 | 117 |
| | | E | HOR | 400 | 11.50 | 7.00 | 26219 | MVR400/C/HOR/MOG | M59 | 6 | | 20000 | 36800 | 22000 | 3900 | 70 | Coated | | 49 | 117 |
| 1000 Watts | | | | | | | | | | | | | | | | | | | | |
| BT56 | E39 | S | VBU | 1000 | 15.37 | 9.50 | 44835 | MVR1000/VBU/HO | M47 | 6 | | 15000 | 111000 | 87000 | 3800 | 65 | Clear | | 49 | 121 |
| Sports Lighting | | | | | | | | | | | | | | | | | | | | |
| 1000 Watts | | | | | | | | | | | | | | | | | | | | |
| PAR64 | G38 | E | U | 1000 | 6.87 | | 88514 | SPL1000/PAR64840 | HID | 1 | 1,350,000 | 3500 | 63000 | | 4000 | 80 | Clear, Narrow Spot | | 38 | 124 |
| | | E | U | 1000 | 6.87 | | 88513 | SPL1000/PAR64/HR | HID | 1 | 1,350,000 | 3500 | 63000 | | 4000 | 80 | Clear, Narrow Spot | | 38 | 124 |
| 1500 Watts | | | | | | | | | | | | | | | | | | | | |
| T7 | Rx7s | E | H | 1500 | 10.12 | 5.00 | 16920 | SPL1500/H/652 | HID | 1 | | 6000 | 120000 | 90000 | 5200 | 65 | Frosted | | 38 | 125 |
| BT56 | E39 | E | U | 1500 | 15.37 | 9.50 | 47326 | MVR1500/U/SPORTS | M48 | 6 | | 3000 | 162000H/170000V | 137000H/153000V | 4000 | 65 | Clear | | 17,42,49 | 117 |
| 1650 Watts | | | | | | | | | | | | | | | | | | | | |
| BT56 | PosMog | E | HOR | 1650 | 15.37 | 9.50 | 25532 | MVR1650/HOR | M112 | 6 | | 3000 | 177000 | 145000 | 3200 | 65 | Clear, Position Oriented Socket | | 17,49 | 117 |
| Protected Multi-Vapor® Metal Halide Lamps | | | | | | | | | | | | | | | | | | | | |
| 50 Watts | | | | | | | | | | | | | | | | | | | | |
| ED17 | E26 | O | U | 50 | 5.43 | 3.43 | 45670 | MXR50/U/MED/O | M110 | 6 | | 10000 | 3200 | 1700 | 3500 | 70 | Clear, Protected | | | 120 |
| | | O | U | 50 | 5.43 | 3.43 | 45671 | MXR50/C/U/MED/O | M110 | 6 | | 10000 | 3200 | 1500 | 3500 | 70 | Coated, Protected | | | 120 |
| 70 Watts | | | | | | | | | | | | | | | | | | | | |
| ED17 | E26 | O | U | 70 | 5.43 | 3.43 | 12377 | MXR70/U/MED/O | M98 | 6 | | 15000 | 5500 | 3500 | 3200 | 70 | Clear, Protected | | | 120 |
| | | O | U | 70 | 5.43 | 3.43 | 12577 | MXR70/C/U/MED/O | M98 | 6 | | 15000 | 4900 | 3300 | 3200 | 70 | Coated, Protected | | | 120 |
| 100 Watts | | | | | | | | | | | | | | | | | | | | |
| ED17 | E26 | O | U | 100 | 5.43 | 3.43 | 12381 | MXR100/U/MED/O | M90 | 6 | | 15000 | 9000 | 6200 | 3200 | 70 | Clear, Protected | | | 120 |
| | | O | U | 100 | 5.43 | 3.43 | 12579 | MXR100/C/U/MED/O | M90 | 6 | | 15000 | 8500 | 5900 | 3200 | 70 | Coated, Protected | | | 120 |
| 150 Watts | | | | | | | | | | | | | | | | | | | | |
| ED17 | E26 | O | U | 150 | 5.43 | 3.43 | 45683 | MXR150/U/MED/O | M102 | 6 | | 15000 | 12500 | 8600 | 3500 | 70 | Clear, Protected | | | 120 |
| | | O | U | 150 | 5.43 | 3.43 | 45688 | MXR150/C/U/MED/O | M102 | 6 | | 15000 | 12000 | 8300 | 3500 | 70 | Coated, Protected | | | 120 |
| 175 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | EX39 | O | VBU | 175 | 8.25 | 5.00 | 49470 | MPR175/VBU/O | M57 | 6 | | 10000 | 15700 | 8400 | 4000 | 65 | Clear, Protected, UV Control | | | 119 |
| | | O | VBU | 175 | 8.25 | 5.00 | 11649 | MPR175/C/VBU/O | M57 | 6 | | 10000 | 14300 | 7700 | 3800 | 70 | Coated, Protected, UV Control | | | 119 |
| | | O | VBU | 175 | 8.25 | 5.00 | 61325 | MPR175/VBU/PA/O | M137, M152 | 6 | | 15000 | 16000 | 11000 | 3900 | 65 | Clear, Protected, UV Control | | | 120 |
| 250 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | EX39 | O | VBU | 250 | 8.25 | 5.00 | 49471 | MPR250/VBU/O | M58 | 6 | | 10000 | 21300 | 14200 | 4000 | 65 | Clear, Protected, UV Control | | | 119 |
| | | O | VBU | 250 | 8.25 | 5.00 | 11650 | MPR250/C/VBU/O | M58 | 6 | | 10000 | 19500 | 12900 | 3800 | 70 | Coated, Protected, UV Control | | | 119 |
| | | O | VBU | 250 | 8.25 | 5.00 | 61326 | MPR250/VBU/PA/O | M138, M153 | 6 | | 15000 | 23000 | 16600 | 3800 | 75 | Clear, Protected, UV Control | | | 120 |

| Bulb Shape | Base | LET | OP | Watts | MOL (in) | LCL (in) | Order Code | Description | ANSI Ballast Type | Case Qty | CBCP | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Additional Information | Reduced Watts/High Color Rendering | Footnotes | Warning and Caution Notices |
|--|------|-----|-----|-------|----------|----------|------------|------------------|-------------------|----------|------|------------------|----------------|---------------|--------------|-----|--|------------------------------------|-----------|-----------------------------|
| Protected Multi-Vapor® Metal Halide Lamps (continued) | | | | | | | | | | | | | | | | | | | | |
| 320 Watts | | | | | | | | | | | | | | | | | | | | |
| ED37 | EX39 | O | VBU | 320 | 11.50 | 7.00 | 46275 | MPR320/VBU/XHOPA | M132/M154 | 6 | | 20000 | 32000 | 22500 | 4000 | 65 | Clear, Protected, UV Control, Extra High Output | | | 120 |
| | | O | VBU | 320 | 11.50 | 7.00 | 46276 | MPR320C/VBUXHOPA | M132/M154 | 6 | | 20000 | 30500 | 21500 | 3700 | 70 | Coated, Protected, UV Control, Extra High Output | | | 120 |
| ED28 | EX39 | O | VBU | 320 | 8.25 | 5.00 | 19609 | MPR320/C/PA/ED28 | M132/M154 | 12 | | 20000 | 30600 | 22500 | 3700 | 70 | Coated, Protected, UV Control | | 43 | 120 |
| 350 Watts | | | | | | | | | | | | | | | | | | | | |
| ED37 | EX39 | O | VBU | 350 | 11.50 | 7.00 | 10202 | MPR350/VBU/PA | M131 | 6 | | 20000 | 35200 | 24600 | 3700 | 65 | Clear, Protected, UV Control | | 43 | 120 |
| | | O | VBU | 350 | 11.50 | 7.00 | 48824 | MPR350C/VBU/PA | M131 | 6 | | 20000 | 33400 | 26500 | 3700 | 70 | Coated, Protected, UV Control | | 43 | 120 |
| | | O | VBU | 350 | 11.50 | 7.00 | 48825 | MPR350C/VBU3K/PA | M131 | 6 | | 20000 | 33400 | 23500 | 3200 | 70 | Coated, Protected, UV Control | | 43 | 120 |
| 360 Watts - Watt-Miser® Energy-Saving Replacement for 400W Metal Halide | | | | | | | | | | | | | | | | | | | | |
| ED37 | EX39 | O | VBU | 360 | 11.50 | 7.00 | 40056 | MPR360VBUWM/HO/O | M59/M165 | 6 | | 20000 | 36000 | 23500 | 4000 | 60 | Clear, Protected | | 32,49 | 119 |
| | | O | VBU | 360 | 11.50 | 7.00 | 11685 | MPR360CVBUWMHO/O | M59/M165 | 6 | | 20000 | 35000 | 22500 | 3700 | 60 | Coated, Protected | | 32,49 | 119 |
| 400 Watts | | | | | | | | | | | | | | | | | | | | |
| ED37 | EX39 | O | VBU | 400 | 11.50 | 7.00 | 18708 | MPR400/VBU/HO/O | M59 | 6 | | 20000 | 40000 | 26000 | 3400 | 65 | Clear, Protected | | 49 | 119 |
| | | O | VBU | 400 | 11.50 | 7.00 | 13582 | MPR400C/VBU/HO/O | M59 | 6 | | 20000 | 38000 | 25000 | 3200 | 65 | Coated, Protected | | 49 | 119 |
| | | O | VBU | 400 | 11.50 | 7.00 | 46273 | MPR400/VBU/XHOPA | M135/M155 | 6 | | 20000 | 42000 | 29500 | 4000 | 65 | Clear, Protected, UV Control, Extra High Output | | 43,49 | 120 |
| | | O | VBU | 400 | 11.50 | 7.00 | 46274 | MPR400C/VBUXHOPA | M135/M155 | 6 | | 20000 | 40000 | 28000 | 3700 | 70 | Coated, Protected, UV Control, Extra High Output | | 43,49 | 120 |
| 1000 Watts | | | | | | | | | | | | | | | | | | | | |
| BT56 | EX39 | O | VBU | 1000 | 15.37 | 9.50 | 41433 | MPR1000/VBU/HO/O | M47 | 6 | | 12000 | 110000 | 88500 | 3500 | 65 | Clear, Protected | | 49 | 119 |
| Chromafit™ Multi-Vapor® Metal Halide Lamps (HPS Retrofit Lamps) | | | | | | | | | | | | | | | | | | | | |
| 250 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | E39 | E | VBU | 250 | 8.25 | 5.75 | 12762 | MVR250/VBU/R | S50 | 12 | | 10000 | 18500 | 13900 | 4500 | 65 | Clear, HPS Retrofit | | 50 | 116 |
| | | E | VBU | 250 | 8.25 | 5.75 | 12769 | MVR250C/VBU/R | S50 | 12 | | 10000 | 18000 | 13000 | 4000 | 70 | Coated, HPS Retrofit | | 50 | 116 |
| 400 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | E39 | E | U | 400 | 8.31 | 5.00 | 26851 | MVR400/U/ED28/R | S51 | 12 | | 15000H/20000V | 33100H/36000V | 20200H/22000V | 4000 | 65 | Clear, Compact, HPS Retrofit, | | 49,50 | 116 |
| ED37 | E39 | S | VBU | 400 | 11.50 | 5.75 | 12770 | MVR400/VBU/R | S51 | 6 | | 20000 | 37600 | 22600 | 4500 | 65 | Clear, HPS Retrofit | | 49,50 | 122 |
| | | S | VBU | 400 | 11.50 | 5.75 | 12772 | MVR400C/VBU/R | S51 | 6 | | 20000 | 35700 | 21400 | 4000 | 70 | Coated, HPS Retrofit | | 49,50 | 122 |
| Lucalox® High Pressure Sodium Lamps | | | | | | | | | | | | | | | | | | | | |
| 150 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | E39 | O | U | 150 | 8.31 | 5.00 | 44243 | LU150/100(ED28) | S56 | 12 | | 24000+ | 15000 | 13500 | 2000 | 22 | Clear, 100V | | | 111 |
| 600 Watts | | | | | | | | | | | | | | | | | | | | |
| T15 | E39 | O | U | 600 | 11.06 | 6.62 | 27187 | LU600/T | S106 | 12 | | 24000 | 90000 | 81000 | 2000 | 22 | Clear | | | 111 |
| 750 Watts | | | | | | | | | | | | | | | | | | | | |
| ED37 | E39 | O | U | 750 | 11.50 | 6.75 | 14682 | LU750 | S111 | 6 | | 24000+ | 110000 | 99000 | 2100 | 22 | Clear | | | 111 |
| Ecolux® High Pressure Sodium Lamps (TCLP Compliant) | | | | | | | | | | | | | | | | | | | | |
| 35 Watts | | | | | | | | | | | | | | | | | | | | |
| B17 | E26 | O | U | 35 | 5.43 | 3.43 | 11668 | LU35/MED/ECO | S76 | 6 | | 16000 | 2250 | 2025 | 1900 | 22 | TCLP Compliant | | | 111 |
| | | O | U | 35 | 5.43 | 3.43 | 26420 | LU35/MED/CP | S76 | 4 | | 16000 | 2250 | 2025 | 1900 | 22 | TCLP Compliant, Consumer Pack | | | 111 |
| 50 Watts | | | | | | | | | | | | | | | | | | | | |
| B17 | E26 | O | U | 50 | 5.43 | 3.43 | 11345 | LU50/MED/ECO | S68 | 6 | | 24000+ | 4000 | 3600 | 1900 | 22 | TCLP Compliant | | | 111 |
| | | O | U | 50 | 5.43 | 3.43 | 26421 | LU50/MED/CP | S68 | 4 | | 24000+ | 4000 | 3600 | 1900 | 22 | TCLP Compliant, Consumer Pack | | | 111 |
| B17 | E26 | O | U | 50 | 5.43 | 3.43 | 11347 | LU50/D/MED/ECO | S68 | 6 | | 24000+ | 3800 | 3420 | 1900 | 22 | TCLP Compliant, Diffuse | | | 111 |
| ED23.5 | E39 | O | U | 50 | 7.75 | 5.00 | 44975 | LU50/H/ECO | S68 | 12 | | 24000+ | 4000 | 3600 | 1900 | 22 | TCLP Compliant | | | 111 |
| | | O | U | 50 | 7.75 | 5.00 | 45006 | LU50/D/H/E/CO | S68 | 12 | | 24000+ | 3800 | 3420 | 1900 | 22 | TCLP Compliant, Diffuse | | | 111 |

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4. All footnotes, warning and caution notices found at the end of this section (page 3-19).

High Intensity Discharge Lamps

| Bulb Shape | Base | LET | OP | Watts | MOL (in) | LCL (in) | Order Code | Description | ANSI Ballast Type | Case Qty | CBCP | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Additional Information | Reduced Watts/ High Color Rendering | Footnotes | Warning and Caution Notices | |
|--|------|-----|----|-------|----------|----------|------------|------------------|-------------------|----------|------|------------------|----------------|-------------|--------------|------|--|-------------------------------------|-----------|-----------------------------|-----|
| Ecolux® High Pressure Sodium Lamps (TCLP Compliant) (continued) | | | | | | | | | | | | | | | | | | | | | |
| 70 Watts | | | | | | | | | | | | | | | | | | | | | |
| B17 | E26 | O | U | 70 | 5.43 | 3.43 | 11339 | LU70/MED/ECO | S62 | 6 | | 24000+ | 6400 | 5450 | 1900 | 22 | TCLP Compliant | | | 111 | |
| | | O | U | 70 | 5.43 | 3.43 | 26422 | LU70/MED/CP | S62 | 4 | | | 24000+ | 6400 | 5450 | 1900 | 22 | TCLP Compliant, Consumer Pack | | | 111 |
| | | O | U | 70 | 5.43 | 3.43 | 11340 | LU70/D/MED/ECO | S62 | 6 | | | 24000+ | 5950 | 5050 | 1900 | 22 | TCLP Compliant, Diffuse | | | 111 |
| ED23.5 | E39 | O | U | 70 | 7.75 | 5.00 | 85368 | LU70/H/ECO | S62 | 12 | | 24000+ | 6400 | 5450 | 1900 | 22 | TCLP Compliant | | | 111 | |
| | | O | U | 70 | 7.75 | 5.00 | 26426 | LU70/CP | S62 | 4 | | | 24000+ | 6400 | 5450 | 1900 | 22 | TCLP Compliant, Consumer Pack | | | 111 |
| | | O | U | 70 | 7.75 | 5.00 | 72605 | LU70/D/H/ECO | S62 | 12 | | | 24000+ | 5950 | 5050 | 1900 | 22 | TCLP Compliant, Diffuse | | | 111 |
| 100 Watts | | | | | | | | | | | | | | | | | | | | | |
| B17 | E26 | O | U | 100 | 5.50 | 3.43 | 13250 | LU100/MED/ECO | S54 | 6 | | 24000+ | 9500 | 8550 | 2000 | 22 | TCLP Compliant | | | 111 | |
| | | O | U | 100 | 5.50 | 3.43 | 26423 | LU100/MED/CP | S54 | 4 | | | 24000+ | 9500 | 8550 | 2000 | 22 | TCLP Compliant, Consumer Pack | | | 111 |
| | | O | U | 100 | 5.50 | 3.43 | 13251 | LU100/D/MED/ECO | S54 | 6 | | | 24000+ | 8800 | 7920 | 2000 | 22 | TCLP Compliant, Diffuse | | | 111 |
| ED23.5 | E39 | O | U | 100 | 7.75 | 5.00 | 85369 | LU100/H/ECO | S54 | 12 | | 24000+ | 9500 | 8550 | 2000 | 22 | TCLP Compliant | | | 111 | |
| | | O | U | 100 | 7.75 | 5.00 | 26427 | LU100/CP | S54 | 4 | | | 24000+ | 9500 | 8550 | 2000 | 22 | TCLP Compliant, Consumer Pack | | | 111 |
| | | O | U | 100 | 7.75 | 5.00 | 72606 | LU100/D/H/ECO | S54 | 12 | | | 24000+ | 8800 | 7920 | 2000 | 22 | TCLP Compliant, Diffuse | | | 111 |
| 150 Watts | | | | | | | | | | | | | | | | | | | | | |
| B17 | E26 | O | U | 150 | 5.75 | 3.50 | 13252 | LU150/MED/ECO | S55 | 6 | | 24000+ | 16000 | 14400 | 2000 | 22 | TCLP Compliant | | | 111 | |
| | | O | U | 150 | 5.75 | 3.50 | 26424 | LU150/MED/CP | S55 | 4 | | | 24000+ | 16000 | 14400 | 2000 | 22 | TCLP Compliant, Consumer Pack | | | 111 |
| | | O | U | 150 | 5.75 | 3.50 | 13253 | LU150/D/MED/ECO | S55 | 6 | | | 24000+ | 15000 | 13500 | 2000 | 22 | TCLP Compliant, Diffuse | | | 111 |
| ED23.5 | E39 | O | U | 150 | 7.75 | 5.00 | 85371 | LU150/55/H/ECO | S55 | 12 | | 24000+ | 16000 | 14400 | 2000 | 22 | TCLP Compliant | | | 111 | |
| | | O | U | 150 | 7.75 | 5.00 | 26429 | LU150/55/CP | S55 | 4 | | | 24000+ | 16000 | 14400 | 2000 | 22 | TCLP Compliant, Consumer Pack | | | 111 |
| | | O | U | 150 | 7.75 | 5.00 | 85380 | LU150/55/D/H/ECO | S55 | 12 | | | 24000+ | 15000 | 13500 | 2000 | 22 | TCLP Compliant, Diffuse | | | 111 |
| 200 Watts | | | | | | | | | | | | | | | | | | | | | |
| ED18 | E39 | O | U | 200 | 9.75 | 5.75 | 85372 | LU200/H/ECO | S66 | 12 | | 24000+ | 22000 | 19800 | 2100 | 22 | TCLP Compliant | | | 111 | |
| 250 Watts | | | | | | | | | | | | | | | | | | | | | |
| ED18 | E39 | O | U | 250 | 9.75 | 5.75 | 85377 | LU250/H/ECO | S50 | 12 | | 24000+ | 28000 | 25200 | 2100 | 22 | TCLP Compliant | | | 111 | |
| ED18 | E39 | O | U | 250 | 9.75 | 5.75 | 26430 | LU250/CP | S50 | 4 | | 24000+ | 28000 | 25200 | 2100 | 22 | Clear, Consumer Pack | | | 111 | |
| ED28 | E39 | O | U | 250 | 9.00 | 5.00 | 85381 | LU250/D/H/ECO | S50 | 12 | | 24000+ | 26000 | 23400 | 2100 | 22 | TCLP Compliant, Diffuse | | | 111 | |
| 310 Watts | | | | | | | | | | | | | | | | | | | | | |
| ED18 | E39 | O | U | 310 | 9.75 | 5.75 | 76996 | LU310/H/ECO | S67 | 12 | | 24000+ | 37000 | 33300 | 2100 | 22 | TCLP Compliant | | | 111 | |
| 400 Watts | | | | | | | | | | | | | | | | | | | | | |
| ED18 | E39 | O | U | 400 | 9.75 | 5.75 | 85379 | LU400/H/ECO | S51 | 12 | | 24000+ | 51000 | 45000 | 2100 | 22 | TCLP Compliant | | | 111 | |
| ED18 | E39 | O | U | 400 | 9.75 | 5.75 | 26431 | LU400/CP | S51 | 4 | | 24000+ | 51000 | 45000 | 2100 | 22 | Clear, Consumer Pack | | | 111 | |
| ED37 | E39 | O | U | 400 | 11.31 | 7.00 | 76998 | LU400/D/H/ECO | S51 | 6 | | 24000+ | 47500 | 42750 | 2100 | 22 | TCLP Compliant, Diffuse | | | 111 | |
| 1000 Watts | | | | | | | | | | | | | | | | | | | | | |
| E25 | E39 | O | U | 1000 | 15.06 | 8.75 | 44058 | LU1000/ECO | S52 | 6 | | 24000+ | 130000 | 117000 | 2100 | 22 | TCLP Compliant | | 49 | 111 | |
| Ecolux® Standby Longlife Lucalox® Lamps (TCLP Compliant) | | | | | | | | | | | | | | | | | | | | | |
| 70 Watts | | | | | | | | | | | | | | | | | | | | | |
| ED23.5 | E39 | O | U | 70 | 7.75 | 5.00 | 61367 | LU70/SBY/XL/ECO | S62 | 12 | | 40000 | 6400 | 5050 | 2000 | 22 | Clear, Standby Longlife, Dual Arc Tube, TCLP Compliant | | | 111 | |
| 100 Watts | | | | | | | | | | | | | | | | | | | | | |
| ED23.5 | E39 | O | U | 100 | 7.75 | 5.00 | 61368 | LU100/SBY/XL/ECO | S54 | 12 | | 40000 | 9500 | 8190 | 2000 | 22 | Clear, Standby Longlife, Dual Arc Tube, TCLP Compliant | | | 111 | |
| 150 Watts | | | | | | | | | | | | | | | | | | | | | |
| ED23.5 | E39 | O | U | 150 | 7.75 | 5.00 | 61369 | LU150/55SBYXLECO | S55 | 12 | | 40000 | 16000 | 14000 | 2000 | 22 | Clear, Standby Longlife, Dual Arc Tube, TCLP Compliant | | | 111 | |
| 200 Watts | | | | | | | | | | | | | | | | | | | | | |
| ED18 | E39 | O | U | 200 | 9.75 | 5.75 | 61370 | LU200/SBY/XL/ECO | S66 | 12 | | 40000 | 21500 | 18150 | 2000 | 22 | Clear, Standby Longlife, Dual Arc Tube, TCLP Compliant | | | 111 | |

| Bulb Shape | Base | LET | OP | Watts | MOL (in) | LCL (in) | Order Code | Description | ANSI Ballast Type | Case Qty | CBCP | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Additional Information | Reduced Watts/High Color Rendering | Footnotes | Warning and Caution Notices |
|---|------|-----|----|-------|----------|----------|------------|------------------|-------------------|----------|------|------------------|----------------|-------------|--------------|-----|--|------------------------------------|-----------|-----------------------------|
| Ecolux® Standby Longlife Lucalox® Lamps (TCLP Compliant) (continued) | | | | | | | | | | | | | | | | | | | | |
| 250 Watts | | | | | | | | | | | | | | | | | | | | |
| ED18 | E39 | O | U | 250 | 9.75 | 5.75 | 61371 | LU250/SBY/XL/ECO | S50 | 12 | | 40000 | 27500 | 24750 | 2000 | 22 | Clear, Standby Longlife, Dual Arc Tube, TCLP Compliant | | | 111 |
| 400 Watts | | | | | | | | | | | | | | | | | | | | |
| ED18 | E39 | O | U | 400 | 9.75 | 5.75 | 61372 | LU400/SBY/XL/ECO | S51 | 12 | | 40000 | 50000 | 45000 | 2000 | 22 | Clear, Standby Longlife, Dual Arc Tube, TCLP Compliant | | 49 | 111 |
| Standby Longlife Lucalox® Lamps | | | | | | | | | | | | | | | | | | | | |
| 1000 Watts | | | | | | | | | | | | | | | | | | | | |
| E25 | E39 | O | U | 1000 | 15.06 | 8.75 | 27185 | LU1000/SBY/XL | S52 | 6 | | 40000 | 127000 | 115000 | 2100 | 22 | Clear, Standby Longlife, Dual Arc Tube | | 49 | 111 |
| Ecolux® NC Non-Cycling High Pressure Sodium Lamps (TCLP Compliant) | | | | | | | | | | | | | | | | | | | | |
| 70 Watts | | | | | | | | | | | | | | | | | | | | |
| ED23.5 | E39 | O | U | 70 | 7.75 | 5.00 | 14672 | LU70/ECO/NC | S62 | 12 | | 30000 | 6300 | 5670 | 1900 | 23 | Clear, Non-Cycling | | | 111 |
| 100 Watts | | | | | | | | | | | | | | | | | | | | |
| ED23.5 | E39 | O | U | 100 | 7.75 | 5.00 | 14673 | LU100/ECO/NC | S54 | 12 | | 30000 | 9800 | 8820 | 2000 | 23 | Clear, Non-Cycling | | | 111 |
| 150 Watts | | | | | | | | | | | | | | | | | | | | |
| ED23.5 | E39 | O | U | 150 | 7.75 | 5.00 | 40390 | LU150/S5/ECO/NC | S55 | 12 | | 40000 | 16000 | 14400 | 2000 | 23 | Clear, Non-Cycling | | | 111 |
| 200 Watts | | | | | | | | | | | | | | | | | | | | |
| ED18 | E39 | O | U | 200 | 9.75 | 5.75 | 45059 | LU200/ECO/NC | S66 | 20 | | 30000 | 22000 | 19800 | 2100 | 22 | Clear, Non-Cycling | | | 111 |
| 250 Watts | | | | | | | | | | | | | | | | | | | | |
| ED18 | E39 | O | U | 250 | 9.75 | 5.75 | 14674 | LU250/ECO/NC | S50 | 12 | | 40000 | 29000 | 26100 | 2000 | 30 | Clear, Non-Cycling | | | 111 |
| 400 Watts | | | | | | | | | | | | | | | | | | | | |
| ED18 | E39 | O | U | 400 | 9.75 | 5.75 | 14675 | LU400/ECO/NC | S51 | 12 | | 40000 | 54000 | 48600 | 2100 | 30 | Clear, Non-Cycling | | | 111 |
| Lucalox® PSL Lamps for Greenhouse | | | | | | | | | | | | | | | | | | | | |
| 400 Watts | | | | | | | | | | | | | | | | | | | | |
| T15 | E40 | O | U | 400 | 11.5 | 6.89 | 41845 | LU400/XOPSL/T/40 | HID | 12 | | 12000 | 56500 | | 2100 | 22 | Clear, 110V | | | 111 |
| 600 Watts | | | | | | | | | | | | | | | | | | | | |
| T15 | E40 | O | U | 600 | 11.5 | 6.65 | 41850 | LU600/XOPSL/T/40 | HID | 12 | | 12000 | 90000 | | 2100 | 22 | Clear, 115V | | | 111 |
| 750 Watts | | | | | | | | | | | | | | | | | | | | |
| T16 | E40 | O | U | 750 | 11.5 | 6.73 | 41856 | LU750/XOPSL/T/40 | HID | 12 | | 10000 | 112000 | | 2100 | 22 | Clear, 115V | | | 111 |
| | | O | U | 750 | 11.5 | 6.89 | 76134 | LU750/400PSL/T40 | HID | 12 | | 12000 | 112000 | | 2100 | 22 | Clear, 205V | | | 111 |
| Mercury Lamps | | | | | | | | | | | | | | | | | | | | |
| 100 Watts | | | | | | | | | | | | | | | | | | | | |
| ED17 | E26 | O | U | 100 | 5.43 | 3.50 | 17113 | HR100DX38/MED | H38 | 5 | | 20000 | 4000 | 2800 | 3900 | 50 | Deluxe White | | | 113 |
| ED23.5 | E39 | O | U | 100 | 7.50 | 5.00 | 12471 | HR100A38 | H38 | 5 | | 20000 | 3850 | 2695 | 5700 | 15 | Clear | | | 113 |
| | | O | U | 100 | 7.50 | 5.00 | 22575 | HR100DX38 | H38 | 12 | | 20000 | 4000 | 2800 | 3900 | 50 | Deluxe White | | | 113 |
| | | O | U | 100 | 7.50 | 5.00 | 26437 | HR100DX38/CP | H38 | 4 | | 20000 | 4000 | 2800 | 3900 | 50 | Deluxe White, Consumer Pack | | | 113 |
| 175 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | E39 | O | U | 175 | 8.25 | 5.00 | 24048 | HR175A39 | H39 | 12 | | 20000 | 7850 | 6670 | 5700 | 15 | Clear | | | 113 |
| | | O | U | 175 | 8.25 | 5.00 | 26440 | HR175A39/CP | H39 | 4 | | 20000 | 7850 | 6670 | 5700 | 15 | Clear, Consumer Pack | | | 113 |
| | | O | U | 175 | 8.25 | 5.00 | 24062 | HR175DX39 | H39 | 12 | | 20000 | 7800 | 6630 | 3900 | 50 | Deluxe White | | | 113 |
| | | O | U | 175 | 8.25 | 5.00 | 26439 | HR175DX39/CP | H39 | 4 | | 20000 | 7800 | 6630 | 3900 | 50 | Deluxe White, Consumer Pack | | | 113 |
| 250 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | E39 | O | U | 250 | 8.25 | 5.00 | 24068 | HR250A37 | H37 | 12 | | 20000 | 11000 | 7700 | 5700 | 15 | Clear | | | 113 |
| | | O | U | 250 | 8.25 | 5.00 | 32127 | HR250DX37 | H37 | 12 | | 20000 | 11200 | 7840 | 3900 | 50 | Deluxe White | | | 113 |
| 400 Watts | | | | | | | | | | | | | | | | | | | | |
| ED37 | E39 | O | U | 400 | 11.31 | 7.00 | 23974 | HR400A33 | H33 | 6 | | 20000 | 21000 | 14700 | 5700 | 15 | Clear | | | 113 |
| | | O | U | 400 | 11.31 | 7.00 | 23998 | HR400DX33 | H33 | 6 | | 20000 | 22600 | 15800 | 3900 | 50 | Deluxe White | | | 113 |

High Intensity Discharge Lamps

General Information

Fixture Requirements – Lamp Enclosure type

HID lamps have fixture requirements that must be followed. The following three codes identify the appropriate fixture for a particular lamp. Lamps having an “O” code can be operated in an “Open or Enclosed” fixture. Lamps with a “S” code can be used in open fixtures only if operated in a vertical $\pm 15^\circ$ burn position. Lamps in all other burn positions must be suitably enclosed.

O = Open or Enclosed Fixtures

E = Enclosed Fixtures Only

S = Lamps operated in a vertical position (Base Up or Down), $\pm 15^\circ$, can be used in an open fixture. Lamps burned in any other orientation must be used in “enclosed fixtures only.”

Use in Enclosed Fixtures. “Enclosed” fixture means a fixture suitably enclosed and designed to contain fragments of hot quartz or glass (up to 1100°C) per UL Standard #1598 (if in doubt, contact your fixture manufacturer).

Use In Open Fixtures. For lamps operated in the vertical position $\pm 15^\circ$ that are not designated “Enclosed Fixtures Only,” lamp may be used in an open or enclosed lighting fixture depending upon the application and operating environment. For example, if the lamp is located near combustible material or in an area which is unoccupied for extended periods, an enclosed fixture which can contain fragments of hot quartz or glass is recommended. For more information, contact your fixture manufacturer.

Protection of Bulbs from Moisture

Outer bulbs of HID lamps are made of heat-resistant glass, designed to have strength and thermal-shock-resistant characteristics suitable for normal applications in typical luminaries. However, shielding of lamps must be provided to avoid bulb breakage that could result from direct contact with liquids (such as water) during operation.

Rated Life

Values are based on laboratory tests of a large number of representative lamps under controlled conditions, including operation at 10 hours per start on ballasts having specified electrical characteristics. Individual lamps or groups of lamps may, of course, vary from the Rated Life shown. Lamp operating conditions can also affect life. Where Rated Life is less than 24,000 hours, it is a MEDIAN value of life expectancy; that is, the total operating time at which, under normal operating conditions, 50% of any large group of initially installed lamps is expected to be still burning. Where Rated Life is 24,000+ hours, 67% of lamps are expected to be still burning at 24,000 hours. For cost-of-light calculations involving these lamps, if an estimated operating time is required at which 50% of the lamps will still be burning, a value of 28,500 hours is suggested. At burning cycles shorter than 10 hours per start, the median life will be shortened approximately as follows:

5 hrs/start: approx. life 75% of rating

2-1/2 hrs/start: approx. life 56% of rating

1-1/4 hrs/start: approx. life 42% of rating

Lumens – Lumens listed are reference lumens

Rated average lamp lumens are obtained under controlled laboratory conditions in a prescribed burning position. **Initial Reference Lumens** refer to the lamp lumen output after 100-hours burning. **Mean Reference Lumens** refer to the lamp lumen output at the mean lumen point during lamp life. The mean lumen point occurs at 50% rated life for HPS and mercury lamps, and at 40% rated life for metal halide lamps. Lamp performance on typical systems under typical service conditions will vary from the reference lumen ratings.

High Intensity Discharge lighting systems are subject to a wide range of variations which may affect final lighting levels. As a result, lamp performance on actual systems may vary due to lamp orientation, ambient temperatures, ballast variations, line voltage and other

reasons. Care must be taken when choosing a system to consider how these changes can affect your light levels both initially and at the mean lumen point.

Ballasts

HID lamps (except E-Z-Merc[®]) require auxiliary ballast equipment designed to produce proper electrical values. Actual lamp watts may vary depending on ballast characteristics. For total system watts, add nominal ballast watts.

All Lucalox[®], Mercury, and Metal Halide lamps (except I-Line) will start at ambient temperatures of -22°F (-30°C). I-Line Multi-Vapor[®] will start at ambient temperatures of 5°F (-15°C) when used on approved mercury ballasts.

Start Characteristics

Full light output does not occur immediately when power is applied. Instead, there is a time delay for the lamp to reach 90% total light output. The starting delay for High Pressure Sodium is 3-4 minutes, for Metal Halide 2-5 minutes, and for Mercury 5-7 minutes.

Restart Characteristics

With a power interruption of a half cycle or more, the arc will extinguish. When power is immediately reapplied, full light output does not occur immediately. For HPS lamps there is a delay of 1 minute to reach 90% total light output; however, Lucalox[®] LU1000 requires 2 minutes and E-Z Lux[®] lamps require 3 minutes to reach 90% total light output. For most Metal Halide lamps, including CMH[®], when the power is immediately reapplied, there will be a delay of 10 to 17 minutes before the lamps reach the 90% light output level. PulseArc[®] lamps restrike in <4 minutes. The restart delay for mercury lamps is 3 to 6 minutes to reach 90% total light output.

Operating Positions and Codes

Mercury and High Pressure Sodium lamps may be operated in any burn position and will still maintain their rated performance specifications. Metal Halide and Low Pressure Sodium lamps, however, are optimized for performance in specific burn positions, or may be restricted to certain burn positions for safety reasons.

U = Universal burning position

HBU = Horizontal -15° to Base Up

HBD = Horizontal $+15^\circ$ to Base Down

HOR = Horizontal $\pm 15^\circ$

HOR PA = $\pm 75^\circ$

HOR $\pm 60^\circ$ = applies to MVR 1650

H45 = Horizontal to $\pm 45^\circ$ only

VBU = Vertical Base Up $\pm 15^\circ$

VBD = Vertical Base Down $\pm 15^\circ$

If no special burn position is noted, the burn position is universal.

HID Color

The color temperature and CRI listed in the tabular data are for reference purposes only. All high intensity discharge lamps exhibit some degree of lamp-to-lamp color variation and shift over life. These characteristics can be increased based on choice of fixture, ballast, burning position, and ambient conditions. Color variation can be greater than normal during the initial 100 hours of burning. Where color consistency is important, consider using ConstantColor[®] CMH[®] for better performance. Contact your local GE Lighting representative for more information.

Export Base Lamps (/27 and /40)

Export only lamps have a non-domestic (non-U.S.) base and are not intended for use in the United States due to potential shock hazard. The lamps are identified by “/27” or “/40” at the end of the lamp description and comply with electrical characteristics defined by IEC standards.

Operating Notes

CMH® Chromafit™ Metal Halide Lamps

Use in enclosed luminaire with front cover made of glass, capable of containing the fragments of a lamp should it shatter, to avoid risk of fire. Do not use with Polymeric Lens.

MXR32 Metal Halide Lamp and Electronic Ballast

MXR32 lamps must be operated on GE's special, high-power-factor electronic ballast, HAL32/120. Outside dimensions for the ballast are 9-1/4" long, 3-1/8" wide and 1-3/4" high.

Dimming

High Wattage CMH® lamps may be dimmed to 50% of full rated wattage. With dimming, the color shifts to a cooler (higher Kelvin) temperature and CRI decreases. The dimming of 20-150W CMH® lamps is not normally recommended. Large power reductions significantly alter the thermal characteristics of the lamp resulting in color shift. Quartz metal halide and mercury vapor lamps may be dimmed to 50% of full rated wattage. High pressure sodium lamps

may be dimmed to 35%. For all dimming, the lamp must be started in full-power mode and must be operated in that mode for a minimum of fifteen minutes prior to reduced-power operation. Minimum open circuit voltage must meet ANSI requirements at full-power, during power transition, and in the reduced-power mode to prevent premature cycling (see appropriate ANSI lamp documents for specific minimum OCV requirements). Other application guidelines may apply.

Footnotes

- 9 Do not use this lamp in fixtures designed for less than rated lamp wattage.
- 14 Life shown is for vertical +15° operation.
- 16 Approximate lumen ratings at 45° burning position: Initial – 145,000. Mean – 124,000.
- 17 Rated life based on 5 or more burning hours per start.
- 28 Use only 1000-watt H12 or H34-type ballasts. Do not use on 1000-watt H36-type ballasts.
- 32 Lamp will run at 400-watts when used on a linear reactor ballast.
- 33 Rated life based on 11 hours per start.
- 38 Requires a non-ANSI designated ballast with a special, add-on metal halide ignitor. Contact your local GE representative for a list of approved ballasts and ignitors.
- 39 UV Control is a quartz material that effectively cuts UVB and UVC radiation.
- 42 Approximate lumen ratings at 45° burning position: Initial – 153,000. Mean – 139,000.
- 43 When operated on a 120 hrs. cycle (minimum), lamp life rating may be extended by up to 50% based on engineering estimates.
- 44 Rated life based on 7 hours per start.
- 45 Use low frequency square wave (LFSW) electronic ballast, peak lead ballast, or system which can shut itself off if ballast overheating occurs.
- 46 Use only with the following types of H39 175-watt mercury ballasts: high-reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.
- 47 Use only with the following types of H37 250-watt mercury ballasts: high-reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.
- 48 Use only with the following types of H33 400-watt mercury ballasts: high-reactance lag-type autotransformers, reactors, CWA auto regulators or CW regulators.
- 49 Not for use with lampholders that have stainless steel center contacts to avoid lamp or lampholder damage due to arcing.
- 50 Not for use on Magnetic-Regulator or Electronic-Regulator ballast systems to avoid ballast overheating.
- 51 Use only with low frequency square wave (LFSW) electronic ballast.
- 52 Use only with approved ballast, do not use on high frequency electronic ballasts.
- 53 Rated life is 15000 hours on magnetic ballasts.

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

High Intensity Discharge Lamps

Warning Notices

THE FOLLOWING WARNING NOTICES MUST BE COMPLIED WITH TO HELP AVOID POSSIBLE LAMP RUPTURE. General Electric Company will not be responsible for poor lamp performance, personal injury or property damage resulting from failure to follow these instructions.

HID LAMPS – GENERAL

WARNING

Most HID lamps are constructed of an outer bulb with an internal arc tube made of quartz. The arc tube operates under high pressure at very high temperatures—as high as approximately 1100°C. The arc tube and outer bulb may unexpectedly rupture due to internal causes or external factors such as a system failure or misapplication.

An arc tube rupture can burst and shatter the outer glass bulb resulting in the discharge of glass fragments and extremely hot quartz particles (as high as 1100°C). There is a risk of personal injury, property damage, burns and fire.

Some lamps are position-sensitive and must only be operated in specified burning positions (see “Additional Information” column in this catalog) with compatible electrical equipment in the types of fixtures prescribed in “Lamp Enclosure Type” on page 3-22 of this catalog.

In addition to the general warnings above, there are specific warnings for the HID lamp types listed below.

Metal Halide Lamps

Fixture lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100°C). If you do not know whether your fixture can safely withstand an arc tube rupture, contact your fixture manufacturer.

In continuously operating systems (24 hours/day, 7 days/week), turn lamps off once per week for at least 15 minutes. **FAILURE TO COMPLY INCREASES THE RISK OF RUPTURE.**

Ceramic metal halide lamps can be operated 24/7.

Relamp fixtures at or before the end of rated life. Beyond rated life, light output diminishes while energy consumption and risk of rupture increase.

Important Notice

In accordance to Federal Regulations (21 CFR 1040.30), the following notice applies to all lamps in the HID section of this catalog except E-Z Merc self ballasted lamps, High Pressure, Low Pressure Sodium Lamps, Saf-T-Gard® Multi-Vapor Lamps, CMH® MR16, CMH® PAR20 and CMH® PAR30.

High Pressure Sodium Lamps

This is a vacuum jacket lamp and may implode if broken. As a precaution, wear safety glasses and gloves when installing or removing lamp. High pressure sodium lamps are not position-sensitive and may be operated in any burning position.

Mercury Lamps

Fixture lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100°C). If you do not know whether your fixture can safely withstand an arc tube rupture, contact your fixture manufacturer.

Relamp fixtures at or before the end of rated life. Beyond rated life, light output diminishes while energy consumption and risk of rupture increase.

Mercury lamps are not position-sensitive and may be operated in any burning position.

Low Pressure Sodium Lamps

These lamps contain sodium which will ignite when exposed to water. If lamps are not disposed of properly, there is a risk of fire in the disposal vessel. Consult GE for disposal instructions.

Lamp Enclosure Type

Use in Enclosed Fixtures. “Enclosed” fixture means a fixture suitably enclosed and designed to contain fragments of hot quartz or glass (up to 1100°C) in accordance with UL Standard #1598 (if in doubt, contact your fixture manufacturer).

Use In Open Fixtures. For lamps operated in the vertical position $\pm 15^\circ$ that are not designated “Enclosed Fixtures Only,” lamp may be used in an open or enclosed lighting fixture depending upon the application and operating environment. For example, if the lamp is located near combustible material or in an area which is unoccupied for extended periods, an enclosed fixture which can contain fragments of hot quartz or glass is recommended. For more information, contact your fixture manufacturer.

⚠ R WARNING: This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available.

Warning and Caution Notices

100 – CMH® PAR38 INTEGRAL Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water
- Not for use with dimmers
- Do not open - no user serviceable parts inside

Risk of fire

- Keep combustible materials away from lamp
- Do not use in totally enclosed recessed fixtures

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use lamp if outer glass is scratched or broken
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required
- This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. This device is not intended for use with emergency exit fixtures or lights, electronic timers, photocells, or with dimmers
- Use only on 120V, 60Hz circuits. Do not operate with additional ballasts. Do not use where directly exposed to water.
- When illuminating light-sensitive materials use of an extra UV filter is recommended.
- Lamps may require several hours of operation to stabilize in color. Color change may also be affected by shock and vibration. Color appearance may vary between individual lamps.

101 – Arcstream®

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use thermally protected ballast

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

102 – Arcstream® G12 Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use thermally protected ballast

Lamp emits UV radiation which may cause eye/skin injury

- Eye or skin irritation may result from exposure. Use appropriate shielding. RG-2

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
FluorescentLED Lamps,
Tubes and Modules

Stage and Studio

Miniature, Sealed
Beam and Automotive

Projection

High Intensity Discharge Lamps

Warning and Caution Notices (continued)

- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

103 – Arcstream® Rx7s Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use thermally protected ballast

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use in wet locations
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

104 – CMH® GU6.5, G12 and Mini Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast—see instructions

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Normal handling with bare hands is acceptable. Excessive handling of the quartz outer bulb should be avoided.
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

105 – CMH® HW HPS Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- CMH® Chromafit™ lamps are compatible with properly rated magnetic HPS ballasts and low frequency square wave (LFSW) electronic ballasts. For CMH400 /R use LFSW electronic ballast, peak lead ballast or system which can shut itself off if ballast overheating occurs.

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed luminaire with front cover made of GLASS, capable of containing the fragments of a lamp should it shatter, to avoid risk of fire. Do not use with polymeric lens.
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not use beyond rated life
- Do not turn on lamp until fully installed

Warning and Caution Notices (continued)

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

106 – CMH® HW PA Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use GE approved ballast/control gear

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

107 – CMH® PAR 20-30 MR16 Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast—see instructions

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required
- Lamps designated as CMH70/PAR30 do not require thermally protected ballasts

108 – CMH® PAR38 Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken

Notes

- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

High Intensity Discharge Lamps

Warning and Caution Notices (continued)

109 – CMH® TD Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Normal handling with bare hands is acceptable. Excessive handling of the quartz outer bulb should be avoided.
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

110 – Kolorarc® Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast

- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

111 – Lucalox®

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Contains sodium—chemical burn risk

- Avoid skin contact with broken pieces

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Warning and Caution Notices (continued)

112 – Lucalox® HO

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast—see instructions

Contains sodium—chemical burn risk

- Avoid skin contact with broken pieces

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

113 – Mercury

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling

- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85 (HR 1000 only)

114 – Mercury Saf-T-Gard®

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

115 – Mercury Self-Ballasted

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
FluorescentLED Lamps,
Tubes and Modules

Stage and Studio

Miniature, Sealed
Beam and Automotive

Projection

High Intensity Discharge Lamps

Warning and Caution Notices (continued)

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

116 – QMH E-rated Kr85 and CMH®

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week. Does not apply to CMH®
- Do not use beyond rated life
- If used on a dimming system, see instructions
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

117 – QMH HOR Enclosed Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not use beyond rated life
- Do not remove base locating pin if so equipped
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

118 – QMH LW Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken

Warning and Caution Notices (continued)

- Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

119 – QMH Protected

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions.
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

120 – QMH Protected Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

121 – QMH S-rated

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product—see instructions
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
FluorescentLED Lamps,
Tubes and Modules

Stage and Studio

Miniature, Sealed
Beam and Automotive

Projection

High Intensity Discharge Lamps

Warning and Caution Notices (continued)

- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

122 – QMH S-rated Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product—see instructions
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

123 – QMH S-rated Saf-T-Gard®

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product—see instructions
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

124 – Sport 1000W PAR64

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

Warning and Caution Notices (continued)

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- Operating position is beam horizontal ± 90° only.
- The PAR outer MUST be aligned to the "TOP" as indicated by the lamp marking.
- Burner pinch must be down in horizontal burn position.

125 – Sport MBIL-CSI-CID

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Lamp emits UV radiation which may cause eye/skin injury

- Avoid exposure of eyes and skin to unshielded lamp

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

High Intensity Discharge Lamps

Cross-Reference

| GE Description | Osram/ Sylvania Description | Philips Description |
|--|----------------------------------|---------------------|
| Order This GE Lamp | If you currently use these lamps | |
| Standard & Ecolux® HPS Lamps | | |
| Lucalox® | Lumalux® | Ceramalux™ |
| LU35/MED | LU35/MED | C35576/M |
| LU35/D/MED | LU35/D/MED | C35576/D/M |
| LU50/MED/ECO | LU50/MED | C50568/M |
| LU50/D/MED/ECO | LU50/D/MED | C50568/M |
| LU50/H/ECO | LU50/ECO | C50568/ALTO |
| LU50/D/H/ECO | LU50/D | C50568/D |
| LU70/MED/ECO | LU70/MED | C70562/M |
| LU70/D/MED/ECO | LU70/D/MED | C70562/D/M |
| LU70/ECO/H/ECO | LU70/ECO | C70562/ALTO |
| LU70/ECO/NC | LU70/PLUS/ECO | — |
| LU70/D/H/ECO | LU70/D | C70562/D |
| LU100/MED/ECO | LU100/MED | C100554/M |
| LU100/D/MED/ECO | LU100/D/MED | C100554/D/M |
| LU100/H/ECO | LU100/ECO | C100554/ALTO |
| LU100/ECO/NC | LU100/PLUS/ECO | — |
| LU100/D/H/ECO | LU100/D | C100554/D |
| LU150/MED/ECO | LU150/55/MED | CC150555/M |
| LU150/D/MED/ECO | LU150/55/D/MED | C150555/D/M |
| LU150/55/H/ECO | LU150/55/ECO | C150555/ALTO |
| LU150/ECO/NC | LU150/55/PLUS/ECO | — |
| LU150/55/D/H/ECO | LU150/55/D | C150555/D |
| LU150/100/H/ECO | LU150/100 | C150556/ALTO |
| LU200/H/ECO | LU200/ECO | C200566 |
| LU200/ECO/NC | LU200/PLUS/ECO | — |
| LU250/H/ECO | LU250/ECO | C250550 |
| LU250/ECO/NC | LU250/PLUS/ECO | — |
| LU250/D/H/ECO | LU250/D | C250550/D |
| LU310 | LU310/ECO | C310567 |
| LU400/H/ECO | LU400/ECO | C400551 |
| LU400/ECO/NC | LU400/PLUS/ECO | — |
| LU400/D | LU400/D | C400551/D |
| LU750 | LU750 | — |
| LU1000/ECO | LU1000 | C1000552 |
| Deluxe High Pressure Sodium Lamps | | |
| Lucalox® | | Ceramalux™ |
| LU70/DX/MED | — | C70562/C/M |
| LU150/DX/MED | — | C150555/C/M |
| LU150/55/DX | — | C150555/C |
| LU250/DX | — | C250550/C |
| LU400/DX | — | C400551/C |
| Standby Longlife High Pressure Sodium Lamps | | |
| Lucalox® | Lumalux® | Ceramalux™ |
| LU70/SBY/XL | LU70/SBY | C70562/2 |
| LU100/SBY/XL | LU100/SBY | C100554/2 |
| LU150/55/SBY/XL | LU150/55/SBY | C150555/2 |
| LU200/SBY/XL | LU200/100/SBY | — |
| LU250/SBY/XL | LU250/SBY | C250550/2 |
| LU400/SBY/XL | LU400/SBY | C400551/2 |
| LU1000/SBY/XL | LU1000/SBY | C1000552/2 |
| Ceramic Metal Halide Lamps | | |
| CMH® | Powerball® | MasterColor® |
| CMH20/MR16/830/SP | — | — |
| CMH20/MR16/830/FL | — | — |
| CMH20/MR16/830/WFL | — | — |
| CMH39MR16/930/SP | — | — |
| CMH39MR16/930/FL | — | — |
| CMH39MR16/930/WFL | — | — |
| CMH39MR16/942/SP | — | — |
| CMH39MR16/942/FL | — | — |
| CMH39MR16/942/WFL | — | — |
| CMH20/PAR20/SP | — | — |

| GE Description | Osram/ Sylvania Description | Philips Description |
|---|----------------------------------|-----------------------|
| Order This GE Lamp | If you currently use these lamps | |
| Ceramic Metal Halide Lamps (continued) | | |
| CMH® | Powerball® | MasterColor® |
| CMH20/PAR20/FL | — | — |
| CMH20/PAR30/SP10 | MCP20PAR30LN/U/830/SP | — |
| CMH20/PAR30/SP15 | — | — |
| CMH20/PAR30/FL25 | MCP20PAR30LN/U/830/FL | CDM20/PAR30/L/MFL/3K |
| CMH39/PAR20/830/SP10 | MCP39PAR20/U/830/SP | CDM35/PAR20/M/SP3K |
| CMH39/PAR20/830/FL30 | MCP39PAR20/U/830/FL | CDM35/PAR20/M/FL3K |
| CMH39/PAR20/NSP4K | — | CDM35/PAR20/M/SP/4K |
| CMH39/PAR20/FL4K | — | CDM35/PAR20/M/FL/4K |
| CMH39/PAR30L/830/SP10 | MCP39PAR30LN/U/830/SP | CDM35/PAR30L/M/SP |
| CMH39/PAR30L/830/SP15 | — | — |
| CMH39/PAR30L/830/FL25 | MCP39PAR30LN/U/830/FL | CDM35/PAR30L/M/FL |
| CMH39/PAR30LNS4PK | — | — |
| CMH39/PAR30L/SP4K | — | — |
| CMH39/PAR30L/FL4K | — | — |
| CMH70/PAR30L/830/SP15 | MCP70PAR30LN/U/830/SP | CDM70/PAR30L/M/SP |
| CMH70/PAR30L/830/FL40 | MCP70PAR30LN/U/830/FL | CDM70/PAR30L/M/FL |
| CMH70/PAR38/830/SP15 | MCP70PAR38/U/830/SP | CDM70/PAR38/SP/3K |
| CMH70/PAR38/830/FL25 | MCP70PAR38/U/830/FL | CDM70/PAR38/FL/3K |
| CMH70/PAR38/830/WFL | MCP70PAR38/U/830/WFL | CDM70/PAR38/WFL/3K |
| CMH100/PAR38/830/SP15 | MCP100PAR38/U/830/SP | CDM100/PAR38/SP/3K |
| CMH100/PAR38/830/FL25 | MCP100PAR38/U/830/FL | CDM100/PAR38/FL/3K |
| CMH100/PAR38/830/WFL | MCP100PAR38/U/830/WFL | CDM100/PAR38/WFL/3K |
| CMH70/U/830/MED | MCP70/U/MED/830 | MHC70/U/M/3K |
| CMH70/C/U/830/MED | MCP70/C/U/MED/830 | MHC70/C/U/M/3K |
| CMH100/U/830/MED | MCP100/U/MED/830 | MHC100/U/M/3K |
| CMH100/C/U/830/MED | MCP100/C/U/MED/830 | MHC100/C/U/M/3K |
| CMH70/U/830/MED/O | MCP70/U/MED/830 | MHC70/U/MP/3K/ALTO |
| CMH70/C/U/830/MED/O | MCP70/C/U/MED/830 | MHC70/C/U/MP/3K/ALTO |
| CMH70/U/942/MED/O | MCP70/U/MED/940 | MHC70/U/MP/4K/ALTO |
| CMH70/C/U/942/MED/O | MCP70/C/U/MED/940 | MHC70/C/U/MP/4K/ALTO |
| CMH150/U/830/MED/O | MCP150/U/MED/830 | MCH150/U/MP/3K/ALTO |
| CMH150/C/U/830/MED/O | MCP150/C/U/MED/830 | MHC150/C/U/MP/3K/ALTO |
| CMH150/U/942/MED/O | — | MHC150/U/MP/4K/ALTO |
| CMH150/C/U/942/MED/O | — | MHC150/C/U/MP/4K/ALTO |
| CMH20/T/U/830/G12 | — | — |
| CMH39/T/U/830/G12 | MC39T6/U/G12/830 | CDM35/T6/830 |
| CMH39/TC/U/942/G12 | MC39T6/U/G12/940 | CDM35/TC/830 |
| CMH70/T/U/830/G12 | MC70T6/U/G12/830 | CDM70/T6/830 |
| CMH70/TC/U/942/G12 | MC70T6/U/G12/940 | CDM70/TC/830 |
| CMH150/T/U/830/G12 | MC150T6/U/G12/830 | CDM150/T6/830 |
| CMH150/TC/U/942/G12 | MC150T6/U/G12/940 | CDM150/TC/830 |
| CMH70/TD/830/Rx7s | MC70T6/DE/830 | CDM70/TD/830 |
| CMH70/TD/942/Rx7s | — | CDM70/TD/942 |
| CMH150/TD/830/Rx7s | MC150T6/DE/830 | CDM150/TD/830 |
| CMH150/TD/942/Rx7s | — | CDM150/TD/942 |
| CMH250/V/PA/O | MCP250/PS/BU only | CDM250/V/O/PS/4K |
| CMH250C/V/PA/O | MCP250/C/PS/BU only | CDM250C/V/O/PS/4K |
| CMH320/V/PA/O | MCP320/PS/BU only | CDM320/V/O/PS/4K |
| CMH320C/V/PA/O | MCP320/C/PS BU only | CDM320C/V/O/PS/4K |
| CMH350/V/PA/O | — | CDM350/V/O/PS/4K |
| CMH350C/V/PA/O | — | CDM350C/V/O/PS/4K |
| CMH400/V/PA/O | — | CDM400/V/O/PS/4K |
| CMH400C/V/PA/O | — | CDM400C/V/O/PS/4K |
| CMH20/TC/U/830/GU6.5 | — | — |
| CMH39T/U930GU6.5 | — | — |
| CMH39T/U942GU6.5 | — | — |
| CMH20/TC/U/830/G8.5 | MC20TC/U/G8.5/830 | — |
| CMH39/TC/U/830/G8.5 | MC39TC/U/G8.5/830 | CDM35/TC/830 |
| CMH39/TC/U/942/G8.5 | MC39TC/U/G8.5/942 | CDM35/TC/942 |
| CMH70/TC/U/830/G8.5 | MC70TC/U/G8.5/830 | CDM70/TC/830 |
| CMH70/TC/U/942/G8.5 | MC70TC/U/G8.5/942 | CDM70/TC/942 |
| CMH250/U/830/R | — | CDM250S50/V/O/4K |
| CMH400/U/830/R | — | CDM400S51/V/O/4K |

Cross-Reference (continued)

| GE Description | Osram/ Sylvania Description | Philips Description |
|--|---|---------------------|
| Order This GE Lamp | If you currently use these lamps | |
| Multi-Vapor® PulseArc® Metal Halide Lamps | | |
| PulseArc® | MetalArc® | |
| MXR32C/VBU | — | — |
| MXR50/U/MED | MP50/U/MED | MH50/U/M |
| MXR50/C/U/MED | MP50/C/U/MED | MH50/C/U/M |
| MXR70/U/MED | MH70/U/MED | MHC70/U/M/3K |
| MXR70/C/U/MED | MH70/C/U/MED | MHC70/C/U/M/3K |
| MXR70/U/MED/O | MP70/U/MED | MHC70/C/U/M/3K |
| MXR70/C/U/MED/O | MP70/C/U/MED | MHC70/C/U/M/3K |
| MXR100/U/MED | M100/U/MRD | MHC100/U/M/3K |
| MXR100/C/U/MED | MH100/C/U/MED | MHC100/C/U/M/3K |
| MVR100/U/MED | MH100/U/4K/MED | MHC100/U/M/4K |
| MVR100/C/U/MED | — | MHC100/C/U/M/4K |
| MXR100/U/MED/O | MP100/U/MED | MHC100/U/M/3K |
| MXR100/C/U/MED/O | MP100/C/U/MED | MHC100/C/U/M/3K |
| MXR150/U/MED | M150/U/MED | MH150/U/M |
| MXR150/C/U/MED | M150/C/U/MED | MH150/C/U/M |
| MVR175/VBU/PA | MS175/PS/BU | MS175/BU/PS |
| MVR175/C/VBU/PA | MS175/C/PS/BU | — |
| MVR250/VBU/PA | MS250/PS/BU | MS250/BU/PS |
| MVR250/C/VBU/PA | MS250/C/PS/BU | — |
| MVR250/HOR/PA | M250/PS/U | — |
| MVR320/VBU/HO/PA | MS320/PS/BU | MS320/BU/PS |
| MVR320/C/VBU/HO/PA | MS320/C/PS/BU-HOR | MS320/C/BU/PS |
| MPR320/VBU/XHO/PA | MP320/350/PS/BU | MP320/BU/PS |
| MPR320/C/VBU/XHO/PA | MP320/350/C/PS/BU | MP320/C/BU/PS |
| MVR320/HOR/PA | M320/PS/BU-HOR | MS320/PS/U |
| MPR350/VBU/PA | MP320/350/PS/BU | MP350/BU/PS |
| MPR350/C/VBU/PA | MP320/350/C/PS/BU | MP350/C/BU/PS |
| MPR400/VBU/XHO/PA | MP350/400/PS/BU | MP400/BU/PS |
| MPR400/C/VBU/XHO/PA | MP350/400/C/PS/BU | MP400/C/BU/PS |
| MVR400/HOR/PA | M400/PS/U | MS400/HOR/PS |
| MVR400/HOR/ED28/PA | M400/PS/U/BT28 | — |
| MVR750/VBU/PA | MS750/PS/BU-HOR/BT37 | — |
| MVR750/C/VBU/PA | MS750/C/PS/BU-HOR/BT37 | — |
| MVR1000/BT37/PA | M1000/PS/U/BT37 | MS1000/BU/BT37/PS |
| Multi-Vapor® Standard Metal Halide Lamps | | |
| Multi-Vapor® | MetalArc® | |
| MVR175/U/MED | M175/U/MED | MH175/U/M |
| MVR175/C/U/MED | M175/C/U/MED | MH175/C/U/M |
| MVR175/U | M175/U | MH175/U |
| MVR175/C/U | M175/C/U | MH175/C/U |
| MVR175/HOR | MS175/HOR | MS175/HOR |
| MVR175/C/HOR | MS175/C/HOR | MS175/C/HOR |
| MVR250/U | M250/U | MH250/U |
| MVR250/C/U | M250/C/U | MH250/C/U |
| MVR250/SP30/U | M2503K/BU-only | MH250/3K/BU |
| MVR250/HOR | MS250/HOR | MS250/HOR |
| MVR250/C/HOR | MS250/C/HOR | MS250/C/HOR |
| MVR400/U | M400/U | MH400/U |
| MVR400/C/U | M400/C/U | MH400/C/U |
| MVR400/SP30/U | MS400/BU | MH400/3K/U |
| MVR400/VBU | MS400/BU | MS400/BU |
| MVR400/VBD | MS400/BD | — |
| MVR400/C/VBU | MS400/C/BU | MS400/C/BU& |
| MVR400/C/VBD | MS400/C/BD | — |
| MVR400/HOR | MS400/HOR | MS400/HOR |
| MVR400/C/HOR | MS400/C/HOR | MS400/C/HOR |
| MVR400/SP30/HOR | MS400/3K/HOR | — |
| MPR400/U | MP400/BU | MP400/U |
| MPR400/VBU | MP400/BU/BD | — |
| MVR1000/U | M1000/U | MH1000/U |
| MVR1000/C/U | M1000/C/U | MH1000/C/U |

For the most up-to-date product information, see www.gelighting.com.

| GE Description | Osram/ Sylvania Description | Philips Description |
|---|---|---------------------|
| Order This GE Lamp | If you currently use these lamps | |
| Multi-Vapor® Standard Metal Halide Lamps (continued) | | |
| Multi-Vapor® | MetalArc® | |
| MVR1000/VBU | MS1000/BU | MS1000/BU |
| MPR1000/VBU/O | MP1000/BU | MP1000/BU |
| MVR1500/U/SPORTS | M1500/BU-HOR | MH1500BU |
| MVR250/HOR/PA | MS250/PS/U | — |
| MVR320/HOR/PA | MS320/PS/BU-HOR | MS320/PS/U |
| MVR400/HOR/ED28/PA | M400/PS/U/BT28 | — |
| Safety Metal Halide Lamps | | |
| MVT400/C/VBU | MPT400/C/BU | MHT400/C/U |
| Mercury Vapor Lamps | | |
| HR40/50DX45-46 | H45/46DL-40/50/DX | H46DL-40-50/DX |
| HR75DX43 | H43AV-75/DX | H43AV-75/DX |
| HR100A38/A23 | — | — |
| HR100DX38/A23 | H38AV-100/DX | H38MP-100/DX |
| HR100A38 | H38HT-100 | H38HT-100 |
| HR100DX38 | H38JA-100/DX | H38JA-100/DX |
| HR100WDX38 | H38JA-100/N | — |
| HR100RFL38 | — | — |
| HR100RDXFL38 | H38BP-100/DX | H38BP-100/DX |
| HR175A39 | H39KB-175 | H39KB-175 |
| HR175DX39 | H39KC-175/DX | H39KC-175/DX |
| HT175DX39 | H39KC-T175/DX | H39KC-T175 |
| HR175WDX39 | H39KC-175/N | — |
| HR175RFL39 | — | H39BM-175 |
| HR175RDXFL39 | H39BP-175/DX | H39BP-175/DX |
| HR250A37 | H37KB-250 | H37KB-250 |
| HR250DX37 | H37KC-250/DX | H37KC-250/DX |
| HR400A33 | H33CD-400 | H33CD-400 |
| HR400DX33 | H33GL-400/DX | H33GL-400/DX |
| HR400DX33BT | — | — |
| HT400DX33 | H33GL-T400/DX | H33GL-T400/DX |
| HR400WDX33 | H33GL-400/N | — |
| HR400RDX33 | — | H33DN-400/DX |
| HR400RDXFL33 | — | H33FS-400/DX |
| HR1000DX34 | H34GW-1000/DX | H34GW-1000/DX |
| HR1000A36 | H36GV-1000 | H36GV-1000 |
| HR1000DX36 | H36GW-1000/DX | H36GW-1000/DX |

Fluorescent Lamps

| | | |
|--|------|--|
| Lamp Locator | 4-3 | |
| Base Identification | 4-4 | |
| Introduction | 4-4 | |
| Product Information | 4-5 | |
| Section Headings | 4-7 | |
| T5 Starcoat® Ecolux® Lamps | | |
| T5 High Efficiency | 4-8 | |
| T5 High Output | 4-8 | |
| T5 High Output Extra-Life | 4-8 | |
| Ultra Energy Saving T5 Lamps | | |
| T5 High Efficiency Watt-Miser® | 4-8 | |
| T5 High Output Watt-Miser® | 4-9 | |
| T5 High Output 47W Watt-Miser® | 4-9 | |
| T5 High Lumen | 4-9 | |
| T5 Preheat Lamps | | |
| 6" T5, 9" T5, 12" T5, 21" T5 | 4-9 | |
| T8 Starcoat® Lamps | | |
| 2' T8 Ecolux®, 2' T8 Ecolux® XL Extra-life | 4-9 | |
| 2' T8 Ecolux® 17 Watt Super Long life | 4-10 | |
| 3' T8 Ecolux®, 3' T8 Ecolux® XL Extra-life | 4-10 | |
| 3' T8 Ecolux® 25 Watt Super Long Life | 4-10 | |
| 4' T8 Ecolux®, 4' T8 Ecolux® XL Extra-life, 4' T8 Ecolux® Super Long Life, 4' T8 Ecolux® High Coloring Rendering | 4-10 | |
| Ultra Energy Saving T8 Lamps | | |
| 2' T8 Ecolux® Watt-Miser® 15 Watt Lamp | 4-10 | |
| 3' T8 Ecolux® Watt-Miser® 22 Watt Lamp | 4-11 | |
| 4' T8 Ecolux® 25 Watt Lamp, 4' T8 Ecolux® UltraMax® 28 Watt Lamp, 4' T8 Ecolux® High Lumen | 4-11 | |
| 8' T8 Lamps | | |
| 8' T8 XL Extra-Life, 8' T8 XL Extra-Life Watt-Miser® Plus Energy Saving Lamps, 8' T8 49W XL Extra-Life Watt- Miser® Energy Saving Lamps | 4-11 | |
| 8' T8 Instant Start | 4-12 | |
| 8' T8 High Output | | |
| 8' T8 High Output – Recessed Double Contact | 4-12 | |
| T8 Mod-U-Line® | | |
| T8 1-5/8" Spacing Ecolux®, T8 1-5/8" 29W Ecolux®, T8 1-5/8" 26W Ecolux®, T8 6" Spacing, T8 6" Spacing Ecolux®, T8 6" Spacing Ecolux® Watt-Miser® 30 Watt Lamp, T8 6" Spacing Ecolux® 28 Watt Lamp | 4-12 | |
| Other T8 Lengths | | |
| 18" T8 w/Starcoat®, 5' T8 w/Starcoat®, 6' T8 Instant Start | 4-12 | |
| T8 Polylux | | |
| 2' T8 Polylux, 4' T8 Polylux, 5' T8 Polylux, 6' T8 Polylux | 4-13 | |
| T8 Preheat | | |
| 12" T8, 15" T8, 18" T8, 36" T8 | 4-13 | |
| T12 Lamps | | |
| 3' T12 Ecolux® – Rapid Start 25W, 30W | 4-13 | |
| 4' T12 Rapid Start 34W Watt-Miser® Ecolux® – TCLP Compliant | 4-13 | |
| 40W Ecolux® – TCLP Compliant | 4-14 | |
| T12 Mod-U-Line® Watt-Miser® Energy Saving Lamps T12 3-5/8" Spacing Watt-Miser®, T12 6" Spacing Watt-Miser® | 4-14 | |
| T12 Instant Start Watt-Miser® Energy Saving Lamps | 4-14 | |
| 8' T12 Instant Start 8' Instant Start Standard | 4-14 | |
| Watt-Miser® Energy Saving Lamps 8" Instant Start Watt-Miser®, 8" Instant Start Watt-Miser® XL Extra-Life | 4-14 | |
| T12 Other Lengths 5' T12 Instant Start, 64" T12 Instant Start | 4-14 | |
| 6' T12 Instant Start, 7' T12 Instant Start | 4-15 | |
| T12 High Output (800mA) Rapid Start Recessed Double Contact 18" High Output | 4-15 | |
| 2' High Output | 4-15 | |
| 30" High Output, 3' High Output | 4-15 | |
| 42" High Output, 4' High Output | 4-15 | |
| 4' High Output Watt-Miser® Energy Saving Lamps | 4-15 | |
| 5' High Output, 64" High Output | 4-15 | |
| 6' High Output, 7' High Output, 8' High Output, 8' High Output Watt-Miser® Energy Saving Lamps | 4-16 | |
| T12 Very High Output (1500mA) Recessed Double Contact | 4-16 | |
| T12 Preheat 15", 18", 24" | 4-16 | |
| Other Diameters | | |
| T6 Instant Start | 4-16 | |
| T17 Instant Start, Pg17 T17 Preheat | 4-17 | |
| Power Groove Recessed Double Contact (1500mA) | 4-17 | |
| T9 Circline® Lamps | 4-17 | |

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
FluorescentLED Lamps,
Tubes and Modules

Stage and Studio

Miniature, Sealed
Beam and Automotive

Projection

Fluorescent Lamps

Special Application Lamps

covRguard® Shatter Resistant
 T5 High Efficiency, T5 High Output, T5 High Output
 Watt-Miser®, T5 Preheat Lamps.....4-17

T8 Ecolux® w/Starcoat®
 2' T8 Ecolux® w/Starcoat®, 3' Ecolux® w/Starcoat®,
 4' T8 (48") Ecolux® w/Starcoat®, 4' T8 Ecolux®
 XL Extra-life w/Starcoat®4-18

Ultra Energy Saving T8 Lamps w/covRguard®
 4' T8 Ecolux® 25 Watt Lamp, 4' T8 Ecolux®
 UltraMax® 28 Watt Lamp, 4' T8 Ecolux®
 High Lumen XL Extra-Life w/Starcoat®4-18

5' T8 w/Starcoat®
 5' T8 (60") w/Starcoat®4-18

T8 Instant Start w/Starcoat®
 8' T8 (96") Instant Start w/Starcoat®4-18

8' T8 High Output Lamps Recessed Double Contact
 w/Starcoat®4-19

T8 Preheat Lamps.....4-19

T12 Rapid Start Lamps
 3' Ecolux® T12 (36").....4-19

4' T12 Ecolux® Rapid Start Watt-Miser®
 Lamps (48").....4-19

T12 Instant Start.....4-19

T12 Instant Start – Watt-Miser® Energy Saving Lamps
 8' T12 Rapid Start Watt-Miser® Lamps (96").....4-19

T12 Preheat4-19

T12 High Output Lamps Recessed Double
 Contact.....4-19

T12 High Output Lamps Recessed Double
 Contact – Watt-Miser® Energy Saving Lamps.....4-19

Germicidal covRguard®
 T8.....4-19

Cold Temperature Lamps
 T5, T84-19

High Output (800mA) Recessed
 Double Contact.....4-20

T10 Very High Output (1500mA) Recessed
 Double Contact.....4-20

T12 Very High Output (1500mA) Recessed
 Double Contact.....4-20

Appliance Lamps
 T8, T12.....4-20

Blacklight/Blacklight Blue Lamps4-20

Colored Lamps
 T8, T12, Preheat4-21

Gold Lamps
 T5, T8, T12.....4-21

Germicidal Lamps.....4-21

Plant and Aquarium/Terrarium Lamps
 T8
 18" T8.....4-21

T12
 24" T12, 48" T124-22

Export Outside U.S. and Canada Only4-22

Consumer Products
 T8
 4' T84-22

T12
 4' F40 Ecolux® Standard4-22

Mod-U-Line® Watt-Miser® U-Tubes.....4-22

T12 Instant Start
 4' T12, 8' T12 Watt-Miser® Energy
 Saving Lamps4-22

T12 Rapid Start4-22

T12 High Output Rapid Start Recessed
 Double Contact.....4-23

Preheat
 T5, T8, T12.....4-23

Blacklight, Blacklight Blue4-23

T9 Circline®4-23

covRguard® Shatter Resistant
 T8 Preheat.....4-24

T12 Rapid Start Watt-Miser®, T12 Preheat.....4-24

Plant and Aquarium/Terrarium4-24

Operating Notes.....4-25

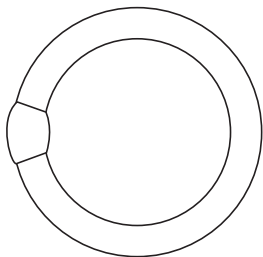
General Information.....4-25

Scotopic/Photopic (S/P) Ratio4-26

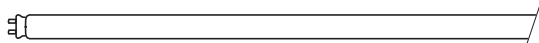
Footnotes4-26

Warning and Caution Notices4-27

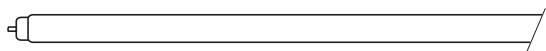
Lamp Locator (not drawn to scale)



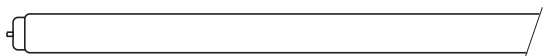
T9 Circline (1-1/8" diameter) 4-Pin Base (G10q)



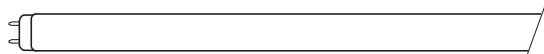
T5 (5/8" diameter) Miniature Bi-Pin Base (G5)



T6 (3/4" diameter) Single Pin Base (Fa8)



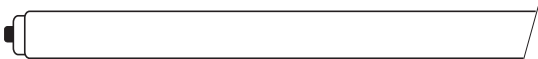
T8 (1" diameter) Single Pin Base (Fa8)



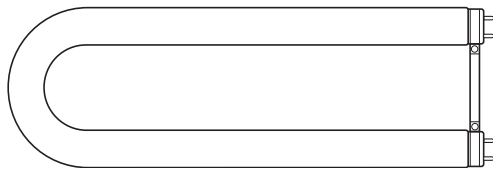
T8 (1" diameter) Medium Bi-Pin Base (G13)



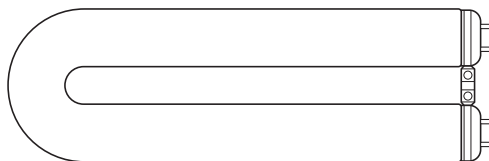
T8 (1" diameter) Recessed Double Contact Base (R17d)



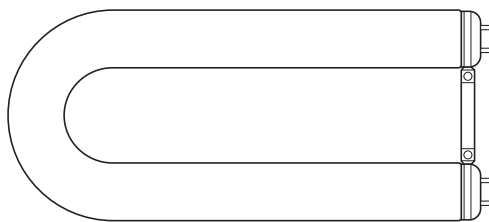
T10 (1 1/4" diameter) Recessed Double Contact Base (R17d)



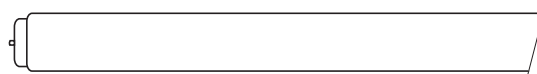
Mod-U-Line® T8/U6 (1" diameter) Medium Bi-Pin Base (G13)



Mod-U-Line® T12/U3 (1 1/2" diameter) Medium Bi-Pin Base (G13)



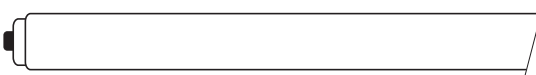
Mod-U-Line® T12/U6 (1-1/2" diameter) Medium Bi-Pin Base (G13)



T12 (1-1/2" diameter) Single Pin Base (Fa8)



T12 (1-1/2" diameter) Medium Bi-Pin Base (G13)



T12 (1-1/2" diameter) Recessed Double Contact Base (R17d)



T17 (2-1/8" diameter) Mogul Bi-Pin (G20)



Power Groove® (2-1/8" diameter)
Recessed Double Contact Base (R17d)

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
Fluorescent

LED Lamps,
Tubes and Modules

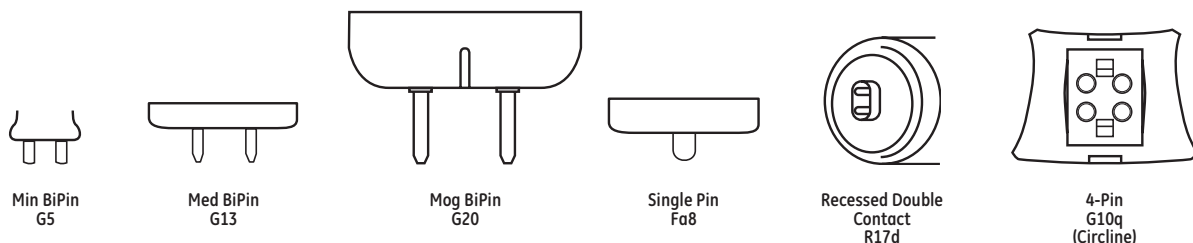
Stage and Studio

Miniature, Sealed
Beam and Automotive

Projection

Fluorescent Lamps

Base Identification



Introduction

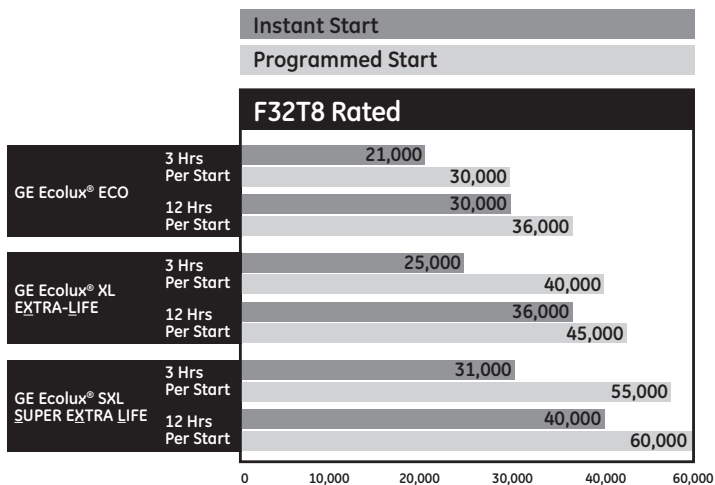
GE introduced the first fluorescent lamp in 1939. Today, these lamps have become almost a universal standard in office and other lighting applications. The characteristics of fluorescent lamps vary widely according to the lamp type. In general, fluorescent lamps have the following advantages:

- Low Operating Cost:**
 Efficient, fluorescent lamps can cost significantly less to operate over their lifetime than incandescent lamps. Many common linear fluorescent lamps now have energy-saving versions often designated in this catalog by Watt-Miser® (WM).
- Long Life:**
 Life ratings for fluorescent lamps range from 36,000 to 55,000 hours based on the industry standard of 3 burning hours per start, except where noted.
- Light Quality:**
 GE Starcoat® T5 and T8 lamps offer higher color rendering and lumen maintenance of 92%-95%.
- Flexibility:**
 Fluorescent lamps are available in a wide range of sizes, shapes, color performance, and wattage ratings.
- Fast Starting:**
 Rapid Start and Instant Start lamps typically start within 1 second of being turned on.

| GE | OSRAM/SYLVANIA | PHILIPS |
|-----------------------------|------------------------|-----------------------------|
| Aquarium/Terrarium | — | — |
| Chroma 50 | Design 50® | Colortone 50 |
| covRguard® | — | Tuff Away® |
| Ecolux® | Ecologic | Alto |
| Gro & Sho™/Plant & Aquarium | GRO-LUX® | Agro-Lite |
| Kitchen and Bath ULTRA™ | Interior Design® (D30) | Softone Pastel FL (SPEC 30) |
| Mod-U-Line® | Curvalume® | U-Bent |
| Power Groove® | — | — |
| Specification Series (SP) | Designer® Series (D) | SPEC Series |
| Specification Series (SPX) | Designer® "800" Series | Ultralume™ |
| Starcoat® | — | — |
| T5 | Pentron® | Silhouette™ |
| T8 | Octron® | TL70/TL80™ |
| T10/1500MA | VHO/LT | — |
| /1500 | VHO | VHO |
| Watt-Miser® | SuperSaver® | Econ-o-Watt |
| Watt-Miser® Plus | SuperSaver Plus® | — |
| XL | XP | Plus |

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturers' performance specifications and product offerings should be consulted. Lamp performance may be affected by environmental conditions, ballast type and/or other auxiliary equipment.

See www.gelighting.com e-Catalog for a comprehensive cross-reference tool.



Life ratings are based on engineering data on programmed start ballasts with lamps cycled every 3 operating hours.

Product Information

GE T5 Starcoat® Ecolux® Lamps (pg 4-8)

- Used in a variety of applications from indirect fixtures in commercial office buildings to warehouses and manufacturing facilities
- Many combinations of wattage and length provide flexibility of fixture design and ceiling layout
- Longer rated life at 30,000 hours
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

GE Ultra Energy Saving T5 Lamps (pg 4-8 to 4-9)

- High Output Watt-Miser®: Over 5% energy savings versus standard Starcoat® T5 HO lamps. Same lumen output. Great for use in high-bay systems.
- High Efficiency Watt-Misers®: Over 5% energy savings versus standard Starcoat® T5 HE lamps. Same lumen output. Available in four different lengths.
- High Lumen T5: 5% greater lumen output versus standard Starcoat® F28WT5 lamps. Same wattage. Great for new commercial troffers.
- Excellent color rendering – 85 CRI
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA).

GE Ultra Energy Saving Ecolux® T5 High Output 47 Watt Watt-Miser® (pg 4-9)

- GE's highest efficiency and lowest wattage T5 HO combination at 102 LPW
- Relamp existing full wattage 54W lamp with the 47W T5 lamp and saves energy
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

GE T8 Starcoat® Ecolux® Lamps (pgs 4-9 to 4-10)

- More light over life – 94-95% lumen maintenance
- Enhanced color rendering...available in 700 and 800 series
- High system efficiency, relative to T12, delivers significant energy cost savings
- TCLP Compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

GE Starcoat® Ecolux® XL Extra-Life and SXL Super Long Life lamps (pgs 4-9 to 4-10)

- Same great features of the T8 Starcoat® Ecolux®...with longer life... up to 67% longer than standard T8 lamps

GE Ultra Energy Saving T8 Lamps 2ft and 3ft T8 Watt-Misers® (pg 4-10 to 4-11)

- Energy-saving alternative to standard 2ft and 3ft T8 lamps. Up to 12% energy savings versus standard F17T8 and/or F25T8 lamps, with approximately 10% light loss.
- Excellent color rendering – 80+ CRI
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA).

GE Ultra Energy Saving T8 Lamps 4ft T8 25 Watt Lamp (pg 4-11)

- Lowest wattage 4ft T8 currently available.
- Longer rated life at 50,000 hours depending on ballast type and burn cycle
- Operates on any ANSI compliant T8 Instant Start or Programmed Start ballast; also approved on GE UltraStart® PRS ballast
- Excellent color rendering – 80+ CRI
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)
- Approximately 10% less light

GE Ultra Energy Saving T8 Lamps T8 28W UltraMax® (pg 4-11)

- Highly efficient T8 system utilizing the new 28W T8 lamp designed for optimal use on the GE UltraMax® ballast product family
- Operates on any ANSI compliant T8 Instant Start or Programmed Start ballast
- Also approved for use on GE UltraStart® PRS ballast
- 80+ CRI (Color Rendering Index) and TCLP compliant
- Approximately 4% less light

GE Ultra Energy Saving T8 Lamps T8 32W High Lumen Lamps (HL) (pg 4-11)

- 5-8% more lumens than GE 32W T8 SP and SPX
- 3100 initial lumens allows you to increase light levels over a standard T8 or the option to implement a de-lamp or de-fixture strategy
- 33% longer life over GE F32T8
- 80+ CRI (Color Rendering Index) and TCLP compliant

GE 8' T8 Lamps (pg 4-11 to 4-12)

- Single-pin based lamps designed to operate on Instant Start Ballast

GE 8' T8 Watt-Miser® Plus and 49W Energy Saving Lamps (pg 4-11)

- One of the most efficient fluorescent products available, up to 107 LPW
- Energy savings...8.5% to 17% less energy consumed than standard F96T8 lamps
- Watt-Miser® Plus has same light output as standard lamps; 49W is approximately 14% less light
- Excellent color rendering – 80+ CRI
- Watt-Miser® Plus lamp reduces wattage to 54W per lamp

GE 8' T8 High Output Lamps (pg 4-12)

- High system efficiency delivers 38% energy cost savings
- 50% longer life than T12 high output lamps
- Wide choice of color options
- Operate at 400mA

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

Fluorescent Lamps

Product Information (continued)

GE T8 Mod-U-Line® U-Shaped Fluorescent Lamps (pg 4-12)

- Primarily used in 2x2 fixtures with prismatic or parabolic lenses
- Lower energy cost...36% energy cost savings vs. F40T12 U-Tubes
- New Watt-Miser® version saves even more money!
- Longer lamp life than T12 Mod-U-Line® – 20,000 hours
- 700 and 800 Series

GE Energy Saving Mod-U-Line® U-Shaped Fluorescent Lamps (pg 4-12)

- Primarily used in 2x2 fixtures with prismatic or parabolic lenses
- Relamp existing F31T8 Mod-U-Line® with F29T8 or F26T8 Mod-U-Line® and save up to 16% in energy
- Longer lamp life than T12 Mod-U-Line® – 24,000 hours
- Approximately 8 to 17% less light

GE 4' T12 Watt-Miser® Ecolux® Energy Saving Lamps (WM) (pg 4-14)

- Energy-saving replacement for all standard T12 fluorescent lamps
- 12% to 20% savings in energy costs vs. standard fluorescent with approximately 15% light loss
- TCLP compliant, lowering disposal costs where applicable (state and local regulations vary, consult your state EPA)

GE T12 High Output Lamps (pg 4-15 to 4-16)

- High light output and long life
- Produces about 45% more initial lumens than standard lamps of the same size
- Usually operated at 800mA

GE T12 Very High Output Lamps (pg 4-16)

- Where high light levels are required – factories, warehouses, gymnasiums, open areas
- Rapid Start, operated at 1500mA

covRguard® Shatter Resistant Fluorescent Lamps (pg 4-17)

- Polycarbonate shield helps to contain shattered glass particles if lamp is broken, protecting people, food and other valuable items
- UV-blocking properties guard against fading and UV degradation
- Available in a variety of colors for decorative and architectural applications

GE Cold-Temperature Lamps (pg 4-19)

- Specifically designed for cold-temperature applications such as freezers and coolers, display cases and outdoor areas
- Available in T5, T8, T10 and T12 versions
- Rated nominal watts and initial lumens are peak values. Actual watt and lumen values may be somewhat lower in service, depending on ambient conditions.

GE Appliance Lamps (pg 4-20)

- Designed for intermittent service in appliances such as oven hoods and microwaves

GE Blacklight/Blacklight Blue Lamps (pg 4-20)

- Blacklight (BL) lamps are commonly used in insect traps
- Blacklight Blue (BLB) lamps are often used decoratively in disco lighting and theatrical applications. These lamps are produced with a special dark blue glass that filters most visible light.

GE Gold Lamps (pg 4-21)

- Effectively blocks all UV emissions below 520nm
- Available in covRguard®
- Used in photo-sensitive applications such as semi-conductor assembly and darkrooms

GE Germicidal Lamps (pg 4-21)

- Clear lamps with special UV transmitting glass
- The 254nm radiation from appropriately designed and installed devices using the lamps can inactivate many forms of bacteria and other organisms
- Used in air, water and surface purification devices

Headings in this catalog section

The following terms and descriptions can help you when checking Fluorescent lamp specifications and when ordering products. Within each product line, lamps are divided into families, within these

families, lamps are then listed by wattage, then bulb, and then by base. There are exceptions to this ordering among the specialty lamps listed.

Order Code:

It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

Nominal Length (in):

Lamp length including base and/or pins.

Watts:

Energy used (as defined by FTC Lamp Label Rules). To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000.

Bulb Shape:

Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).

Base:
The type of base.

Description:
The lamp's identification code.

Case Quantity:
Number of product units packed in a case.

Rated Life - Hours:
Lamp burning hours to median life expectancy.

Initial Lumens:
Lamp light output after the initial 100 hours of operation.

Mean Lumens:
Lamp light output at 40% of rated lamp life or 8K hours for lamps exceeding 20K hours life.

Color Temperature Kelvins (K):

A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value, the whiter or "cooler" the light appears.

Color Rendering Index (CRI or R_a):

An indication of the ability of the lamp to render object colors in a normal, natural way. The higher the number (0-100), the better the color appearance.

High Color Rendering:

Indicates that this is a lamp with high color rendering, which helps objects and persons illuminated to appear more true to life.

Reduced Wattage:

Indicates that this is a reduced wattage option for lamps normally used in this application. Be sure to check wattage, lumens and life to determine which lamp is best suited to your needs.

Warning and Caution Notices:

See page 4-27 for more information.

Footnotes:

Related footnotes, see page 4-26

Additional Information:

Typical application and/or other important information.

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3hr/Start) | Rated Life (12hr/Start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information |
|------------|------|-------|---------------------|------------|-------------|----------|------------------------|-------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|------------------------|
|------------|------|-------|---------------------|------------|-------------|----------|------------------------|-------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|------------------------|

T5 Starcoat Ecolux® Lamps

| High Efficiency | | | | | | | | | | | | | | | | | | | |
|-----------------|-----------------------|----|------|-------|-----------------|----|-------|-------|------|------|------|----|--|--|--|----|-----|--|--|
| T5 | Miniature Bi-Pin (G5) | 14 | 21.6 | 31590 | F14W/T5/830/ECO | 40 | 30000 | 36000 | 1350 | 1240 | 3000 | 85 | | | | 19 | 101 | | |

F 14W/T5/830 / ECO

Identifies as Fluorescent lamp.

Identifies either the lamp's wattage or its length in inches.

Identifies the lamp shape and the bulb diameter in eighths of an inch.

Identifies the lamp finish or color.

Identifies TCLP compliance.

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape by using table on page 4-3.
2. Measure bulb diameter using ruler in Appendix section page D-1 to determine width in eighths of an inch.
3. Identify base type using table on page 4-4.
4. Find your lamp in the table containing the bulb shape, size and base.



Fluorescent Lamps

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3hr/Start) | Rated Life (12hr/Start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information |
|---------------------------------------|-----------------------|-------|---------------------|------------|------------------|----------|------------------------|-------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|------------------------|
| T5 Starcoat® Ecolux® Lamps | | | | | | | | | | | | | | | | | | |
| T5 High Efficiency | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 14 | 21.6 | 31590 | F14W/T5/830/ECO | 40 | 30000 | 36000 | 1350 | 1240 | 3000 | 85 | ☺ | | | 19 | 101 | |
| | | 14 | 21.6 | 46671 | F14W/T5/835/ECO | 40 | 30000 | 36000 | 1350 | 1240 | 3500 | 85 | ☺ | | | 19 | 101 | |
| | | 14 | 21.6 | 46673 | F14W/T5/841/ECO | 40 | 30000 | 36000 | 1350 | 1240 | 4100 | 85 | ☺ | | | 19 | 101 | |
| | | 14 | 21.6 | 46674 | F14W/T5/850/ECO | 40 | 30000 | 36000 | 1300 | 1190 | 5000 | 85 | ☺ | | | 19 | 101 | |
| | | 14 | 21.6 | 46676 | F14W/T5/865/ECO | 40 | 30000 | 36000 | 1250 | 1150 | 6500 | 85 | ☺ | | | 19 | 101 | |
| | | 21 | 33.4 | 46677 | F21W/T5/830/ECO | 40 | 30000 | 36000 | 2100 | 1930 | 3000 | 85 | ☺ | | | 19 | 101 | |
| | | 21 | 33.4 | 46684 | F21W/T5/835/ECO | 40 | 30000 | 36000 | 2100 | 1930 | 3500 | 85 | ☺ | | | 19 | 101 | |
| | | 21 | 33.4 | 46687 | F21W/T5/841/ECO | 40 | 30000 | 36000 | 2100 | 1930 | 4100 | 85 | ☺ | | | 19 | 101 | |
| | | 21 | 33.4 | 46688 | F21W/T5/850/ECO | 40 | 30000 | 36000 | 2000 | 1840 | 5000 | 85 | ☺ | | | 19 | 101 | |
| | | 21 | 33.4 | 46689 | F21W/T5/865/ECO | 40 | 30000 | 36000 | 1950 | 1790 | 6500 | 85 | ☺ | | | 19 | 101 | |
| | | 28 | 45.2 | 46704 | F28W/T5/830/ECO | 40 | 30000 | 36000 | 2900 | 2660 | 3000 | 85 | ☺ | | | 19 | 101 | |
| | | 28 | 45.2 | 46705 | F28W/T5/835/ECO | 40 | 30000 | 36000 | 2900 | 2660 | 3500 | 85 | ☺ | | | 19 | 101 | |
| | | 28 | 45.2 | 46706 | F28W/T5/841/ECO | 40 | 30000 | 36000 | 2900 | 2660 | 4100 | 85 | ☺ | | | 19 | 101 | |
| | | 28 | 45.2 | 46707 | F28W/T5/850/ECO | 40 | 30000 | 36000 | 2750 | 2530 | 5000 | 85 | ☺ | | | 19 | 101 | |
| | | 28 | 45.2 | 46708 | F28W/T5/865/ECO | 40 | 30000 | 36000 | 2700 | 2480 | 6500 | 85 | ☺ | | | 19 | 101 | |
| | | 35 | 57.1 | 46724 | F35W/T5/830/ECO | 40 | 30000 | 36000 | 3650 | 3350 | 3000 | 85 | ☺ | | | 19 | 101 | |
| | | 35 | 57.1 | 46727 | F35W/T5/835/ECO | 40 | 30000 | 36000 | 3650 | 3350 | 3500 | 85 | ☺ | | | 19 | 101 | |
| | | 35 | 57.1 | 46735 | F35W/T5/841/ECO | 40 | 30000 | 36000 | 3650 | 3350 | 4100 | 85 | ☺ | | | 19 | 101 | |
| | | 35 | 57.1 | 46742 | F35W/T5/850/ECO | 40 | 30000 | 36000 | 3500 | 3220 | 5000 | 85 | ☺ | | | 19 | 101 | |
| | | 35 | 57.1 | 46743 | F35W/T5/865/ECO | 40 | 30000 | 36000 | 3400 | 3120 | 6500 | 85 | ☺ | | | 19 | 101 | |
| T5 High Output | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 24 | 21.6 | 46699 | F24W/T5/830/ECO | 40 | 30000 | 36000 | 2000 | 1840 | 3000 | 85 | ☺ | | | 19 | 101 | |
| | | 24 | 21.6 | 46700 | F24W/T5/835/ECO | 40 | 30000 | 36000 | 2000 | 1840 | 3500 | 85 | ☺ | | | 19 | 101 | |
| | | 24 | 21.6 | 46701 | F24W/T5/841/ECO | 40 | 30000 | 36000 | 2000 | 1840 | 4100 | 85 | ☺ | | | 19 | 101 | |
| | | 24 | 21.6 | 46702 | F24W/T5/850/ECO | 40 | 30000 | 36000 | 1900 | 1740 | 5000 | 85 | ☺ | | | 19 | 101 | |
| | | 24 | 21.6 | 46703 | F24W/T5/865/ECO | 40 | 30000 | 36000 | 1880 | 1740 | 6500 | 85 | ☺ | | | 19 | 101 | |
| | | 39 | 33.4 | 46744 | F39W/T5/830/ECO | 40 | 30000 | 36000 | 3500 | 3220 | 3000 | 85 | ☺ | | | 19 | 101 | |
| | | 39 | 33.4 | 46745 | F39W/T5/835/ECO | 40 | 30000 | 36000 | 3500 | 3220 | 3500 | 85 | ☺ | | | 19 | 101 | |
| | | 39 | 33.4 | 46746 | F39W/T5/841/ECO | 40 | 30000 | 36000 | 3500 | 3220 | 4100 | 85 | ☺ | | | 19 | 101 | |
| | | 39 | 33.4 | 46747 | F39W/T5/850/ECO | 40 | 30000 | 36000 | 3350 | 3080 | 5000 | 85 | ☺ | | | 19 | 101 | |
| | | 39 | 33.4 | 46748 | F39W/T5/865/ECO | 40 | 30000 | 36000 | 3330 | 3060 | 6500 | 85 | ☺ | | | 19 | 101 | |
| | | 54 | 45.2 | 46759 | F54W/T5/830/ECO | 40 | 30000 | 36000 | 5000 | 4600 | 3000 | 85 | ☺ | | | 19 | 101 | |
| | | 54 | 45.2 | 46760 | F54W/T5/835/ECO | 40 | 30000 | 36000 | 5000 | 4600 | 3500 | 85 | ☺ | | | 19 | 101 | |
| | | 54 | 45.2 | 46761 | F54W/T5/841/ECO | 40 | 30000 | 36000 | 5000 | 4600 | 4100 | 85 | ☺ | | | 19 | 101 | |
| | | 54 | 45.2 | 46762 | F54W/T5/850/ECO | 40 | 30000 | 36000 | 4800 | 4410 | 5000 | 85 | ☺ | | | 19 | 101 | |
| | | 54 | 45.2 | 46763 | F54W/T5/865/ECO | 40 | 30000 | 36000 | 4750 | 4370 | 6500 | 85 | ☺ | | | 19 | 101 | |
| | | 80 | 57.1 | 46802 | F80W/T5/830/ECO | 40 | 30000 | 36000 | 7000 | 6440 | 3000 | 85 | ☺ | | | 19 | 101 | |
| | | 80 | 57.1 | 46803 | F80W/T5/835/ECO | 40 | 30000 | 36000 | 7000 | 6440 | 3500 | 85 | ☺ | | | 19 | 101 | |
| | | 80 | 57.1 | 46804 | F80W/T5/841/ECO | 40 | 30000 | 36000 | 7000 | 6440 | 4100 | 85 | ☺ | | | 19 | 101 | |
| | | 80 | 57.1 | 46805 | F80W/T5/850/ECO | 40 | 30000 | 36000 | 6700 | 6160 | 5000 | 85 | ☺ | | | 19 | 101 | |
| | | 80 | 57.1 | 46806 | F80W/T5/865/ECO | 40 | 30000 | 36000 | 6650 | 6110 | 6500 | 85 | ☺ | | | 19 | 101 | |
| T5 High Output Extra-Life | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 54 | 45 | 68836 | F54T5/XL/830/ECO | 40 | 50000 | 60000 | 5000 | 4600 | 3000 | 84 | ☺ | | | 19 | 101 | |
| | | 54 | 45 | 68837 | F54T5/XL/835/ECO | 40 | 50000 | 60000 | 5000 | 4600 | 3500 | 84 | ☺ | | | 19 | 101 | |
| | | 54 | 45 | 68838 | F54T5/XL/841/ECO | 40 | 50000 | 60000 | 5000 | 4600 | 4100 | 84 | ☺ | | | 19 | 101 | |
| | | 54 | 45 | 68839 | F54T5/XL/850/ECO | 40 | 50000 | 60000 | 4800 | 4410 | 5000 | 84 | ☺ | | | 19 | 101 | |
| | | 54 | 45 | 68840 | F54T5/XL/865/ECO | 40 | 50000 | 60000 | 4750 | 4370 | 6500 | 84 | ☺ | | | 19 | 101 | |
| Ultra Energy Saving T5 Lamps | | | | | | | | | | | | | | | | | | |
| T5 High Efficiency Watt-Miser® | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 13 | 21.6 | 71632 | F14T5/830/WM/ECO | 40 | 25000 | 30000 | 1350 | 1240 | 3000 | 85 | ☺ | \$ | ☺ | 19 | 101 | |
| | | 13 | 21.6 | 71633 | F14T5/835/WM/ECO | 40 | 25000 | 30000 | 1350 | 1240 | 3500 | 85 | ☺ | \$ | ☺ | 19 | 101 | |
| | | 13 | 21.6 | 71634 | F14T5/841/WM/ECO | 40 | 25000 | 30000 | 1350 | 1240 | 4100 | 85 | ☺ | \$ | ☺ | 19 | 101 | |
| | | 13 | 21.6 | 71635 | F14T5/850/WM/ECO | 40 | 25000 | 30000 | 1300 | 1190 | 5000 | 85 | ☺ | \$ | ☺ | 19 | 101 | |
| | | 13 | 21.6 | 71636 | F14T5/865/WM/ECO | 40 | 25000 | 30000 | 1250 | 1150 | 6500 | 85 | ☺ | \$ | ☺ | 19 | 101 | |
| | | 20 | 33.4 | 71637 | F21T5/830/WM/ECO | 40 | 25000 | 30000 | 2100 | 1930 | 3000 | 85 | ☺ | \$ | ☺ | 19 | 101 | |
| | | 20 | 33.4 | 71638 | F21T5/835/WM/ECO | 40 | 25000 | 30000 | 2100 | 1930 | 3500 | 85 | ☺ | \$ | ☺ | 19 | 101 | |
| | | 20 | 33.4 | 71639 | F21T5/841/WM/ECO | 40 | 25000 | 30000 | 2100 | 1930 | 4100 | 85 | ☺ | \$ | ☺ | 19 | 101 | |
| | | 20 | 33.4 | 71640 | F21T5/850/WM/ECO | 40 | 25000 | 30000 | 2000 | 1840 | 5000 | 85 | ☺ | \$ | ☺ | 19 | 101 | |
| | | 20 | 33.4 | 71641 | F21T5/865/WM/ECO | 40 | 25000 | 30000 | 1950 | 1790 | 6500 | 85 | ☺ | \$ | ☺ | 19 | 101 | |
| | | 26 | 45.2 | 71642 | F28T5/830/WM/ECO | 40 | 25000 | 30000 | 2900 | 2660 | 3000 | 85 | ☺ | \$ | ☺ | 19 | 101 | |
| | | 26 | 45.2 | 71643 | F28T5/835/WM/ECO | 40 | 25000 | 30000 | 2900 | 2660 | 3500 | 85 | ☺ | \$ | ☺ | 19 | 101 | |
| | | 26 | 45.2 | 71644 | F28T5/841/WM/ECO | 40 | 25000 | 30000 | 2900 | 2660 | 4100 | 85 | ☺ | \$ | ☺ | 19 | 101 | |

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3hr/Start) | Rated Life (12hr/Start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information |
|---|-----------------------|-------|---------------------|------------|--------------------|----------|------------------------|-------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|------------------------|
| Ultra Energy Saving T5 Lamps (continued) | | | | | | | | | | | | | | | | | | |
| T5 High Efficiency Watt-Miser® (continued) | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-pin (G5) | 26 | 45.2 | 71645 | F28T5/850/WM/ECO | 40 | 25000 | 30000 | 2750 | 2530 | 5000 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 26 | 45.2 | 71646 | F28T5/865/WM/ECO | 40 | 25000 | 30000 | 2700 | 2480 | 6500 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 33 | 57.1 | 71647 | F35T5/830/WM/ECO | 40 | 25000 | 30000 | 3650 | 3350 | 3000 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 33 | 57.1 | 71648 | F35T5/835/WM/ECO | 40 | 25000 | 30000 | 3650 | 3350 | 3500 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 33 | 57.1 | 71649 | F35T5/841/WM/ECO | 40 | 25000 | 30000 | 3650 | 3350 | 4100 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 33 | 57.1 | 71650 | F35T5/850/WM/ECO | 40 | 25000 | 30000 | 3500 | 3220 | 5000 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 33 | 57.1 | 71651 | F35T5/865/WM/ECO | 40 | 25000 | 30000 | 3400 | 3120 | 6500 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| T5 High Output Watt-Miser® | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 51 | 45.2 | 71627 | F54T5/830/WM/ECO | 40 | 30000 | 36000 | 5000 | 4600 | 3000 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 51 | 45.2 | 71628 | F54T5/835/WM/ECO | 40 | 30000 | 36000 | 5000 | 4600 | 3500 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 51 | 45.2 | 71629 | F54T5/841/WM/ECO | 40 | 30000 | 36000 | 5000 | 4600 | 4100 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 51 | 45.2 | 71630 | F54T5/850/WM/ECO | 40 | 30000 | 36000 | 4790 | 4410 | 5000 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 51 | 45.2 | 71631 | F54T5/865/WM/ECO | 40 | 30000 | 36000 | 4750 | 4370 | 6500 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| T5 High Output 47W Watt-Miser® | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 47 | 45.2 | 62020 | F54T5/47W/830/ECO | 40 | 30000 | 36000 | 4800 | 4410 | 3000 | 84 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 47 | 45.2 | 62021 | F54T5/47W/835/ECO | 40 | 30000 | 36000 | 4800 | 4410 | 3500 | 84 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 47 | 45.2 | 62022 | F54T5/47W/841/ECO | 40 | 30000 | 36000 | 4800 | 4410 | 4100 | 84 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 47 | 45.2 | 62023 | F54T5/47W/850/ECO | 40 | 30000 | 36000 | 4600 | 4230 | 5000 | 84 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 47 | 45.2 | 62024 | F54T5/47W/865/ECO | 40 | 30000 | 36000 | 4550 | 4180 | 6500 | 84 | ☺ | \$ | ↗ | 19 | 101 | |
| T5 High Lumen | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 28 | 45.2 | 71652 | F28WTS/830/HL/ECO | 40 | 20000 | 24000 | 3050 | 2810 | 3000 | 85 | ☺ | \$ | | 19 | 101 | |
| | | 28 | 45.2 | 71653 | F28WTS/835/HL/ECO | 40 | 20000 | 24000 | 3050 | 2810 | 3500 | 85 | ☺ | \$ | | 19 | 101 | |
| | | 28 | 45.2 | 71654 | F28WTS/841/HL/ECO | 40 | 20000 | 24000 | 3050 | 2810 | 4100 | 85 | ☺ | \$ | | 19 | 101 | |
| | | 28 | 45.2 | 71655 | F28WTS/850/HL/ECO | 40 | 20000 | 24000 | 2900 | 2670 | 5000 | 85 | ☺ | \$ | | 19 | 101 | |
| | | 28 | 45.2 | 71656 | F28WTS/865/HL/ECO | 40 | 20000 | 24000 | 2850 | 2620 | 6500 | 85 | ☺ | \$ | | 19 | 101 | |
| T5 Preheat Lamps | | | | | | | | | | | | | | | | | | |
| 6" T5 | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 4 | 6.0 | 10004 | F4T5/CW | 24 | 5000 | | 135 | 100 | 4100 | 60 | | | | | 101 | |
| | | 4 | 6.0 | 15983 | F4T5/CW/CB | 10 | 5000 | | 135 | 100 | 4100 | 60 | | | | | 101 | |
| | | 4 | 6.0 | 29089 | F4T5/WW/CB | 10 | 5000 | | 140 | 105 | 3000 | 52 | | | | | 101 | |
| 9" T5 | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 6 | 9.0 | 10032 | F6T5/CW | 24 | 5000 | | 295 | 235 | 4100 | 60 | | | | | 101 | |
| | | 6 | 9.0 | 15986 | F6T5/CW/CB | 10 | 5000 | | 295 | 235 | 4100 | 60 | | | | | 101 | |
| | | 6 | 9.0 | 90062 | F6T5/XL/CW | 24 | 8000 | | 260 | 210 | 4100 | 60 | | | | | 101 | |
| | | 6 | 9.0 | 10028 | F6T5/D | 24 | 5000 | | 230 | 185 | 6500 | 75 | | | | | 101 | |
| 12" T5 | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 8 | 12.0 | 10059 | F8T5/CW | 24 | 5000 | | 400 | 320 | 4100 | 60 | | | | | 101 | |
| | | 8 | 12.0 | 15987 | F8T5/CW/CB | 10 | 5000 | | 400 | 320 | 4100 | 60 | | | | | 101 | |
| | | 8 | 12.0 | 90063 | F8T5/XL/CW | 24 | 8000 | | 400 | 320 | 4100 | 60 | | | | | 101 | |
| | | 8 | 12.0 | 10055 | F8T5/D | 24 | 5000 | | 330 | 265 | 6500 | 75 | | | | | 101 | |
| | | 8 | 12.0 | 10064 | F8T5/WW | 24 | 5000 | | 410 | 330 | 3000 | 52 | | | | | 101 | |
| | | 8 | 12.0 | 25425 | F8T5/WW/CB | 5 | 5000 | | 410 | 330 | 3000 | 52 | | | | | 101 | |
| 21" T5 | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 13 | 21.0 | 10086 | F13T5/CW | 24 | 5000 | | 850 | 705 | 4100 | 60 | | | | | 101 | |
| | | 13 | 21.0 | 49333 | F13T5/CW/CB | 5 | 5000 | | 850 | 705 | 4100 | 60 | | | | | 101 | |
| | | 13 | 21.0 | 90064 | F13T5/XL/CW | 24 | 8000 | | 830 | 690 | 4100 | 60 | | | | | 101 | |
| | | 13 | 21.0 | 10089 | F13T5/WW | 24 | 5000 | | 870 | 720 | 3000 | 52 | | | | | 101 | |
| | | 13 | 21.0 | 25426 | F13T5/WW/CB | 5 | 5000 | | 870 | 720 | 3000 | 52 | | | | | 101 | |
| T8 Starcoat® Lamps | | | | | | | | | | | | | | | | | | |
| 2' T8 Ecolux® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 17 | 24.0 | 45741 | F17T8/SP30/ECO | 24 | 30000 | 36000 | 1325 | 1260 | 3000 | 78 | | | | 18,20 | 101 | |
| | | 17 | 24.0 | 45743 | F17T8/SP35/ECO | 24 | 30000 | 36000 | 1325 | 1260 | 3500 | 78 | | | | 18,20 | 101 | |
| | | 17 | 24.0 | 45748 | F17T8/SP41/ECO | 24 | 30000 | 36000 | 1325 | 1260 | 4100 | 78 | | | | 18,20 | 101 | |
| | | 17 | 24.0 | 45742 | F17T8/SPX30/ECO | 24 | 30000 | 36000 | 1350 | 1280 | 3000 | 85 | ☺ | | | 18,20 | 101 | |
| | | 17 | 24.0 | 45747 | F17T8/SPX35/ECO | 24 | 30000 | 36000 | 1350 | 1280 | 3500 | 85 | ☺ | | | 18,20 | 101 | |
| | | 17 | 24.0 | 45749 | F17T8/SPX41/ECO | 24 | 30000 | 36000 | 1350 | 1280 | 4100 | 85 | ☺ | | | 18,20 | 101 | |
| 2' T8 Ecolux® XL Extra-life | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 17 | 24.0 | 15476 | F17T8/XL/SP30/ECO | 24 | 40000 | 45000 | 1325 | 1260 | 3000 | 78 | | | | 18,20 | 101 | |
| | | 17 | 24.0 | 15479 | F17T8/XL/SP35/ECO | 24 | 40000 | 45000 | 1325 | 1260 | 3500 | 78 | | | | 18,20 | 101 | |
| | | 17 | 24.0 | 15480 | F17T8/XL/SP41/ECO | 24 | 40000 | 45000 | 1325 | 1260 | 4100 | 78 | | | | 18,20 | 101 | |
| | | 17 | 24.0 | 15481 | F17T8/XL/SPX30/ECO | 24 | 40000 | 45000 | 1350 | 1280 | 3000 | 85 | ☺ | | | 18,20 | 101 | |

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4. All footnotes, warning and caution notices found at the end of this section (page 4-26).

Fluorescent Lamps

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3hr/Start) | Rated Life (12hr/Start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information | |
|--|---------------------|------------------------------------|---------------------|------------|-----------------------|----------|------------------------|-------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|------------------------|-----------|
| T8 Starcoat® Lamps (continued) | | | | | | | | | | | | | | | | | | | |
| 2' T8 Ecolux® XL Extra-life (continued) | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 17 | 24.0 | 15483 | F17T8/XL/SPX35/ECO | 24 | 40000 | 45000 | 1350 | 1280 | 3500 | 85 | ☺ | | | 18,20 | 101 | | |
| | | 17 | 24.0 | 15484 | F17T8/XL/SPX41/ECO | 24 | 40000 | 45000 | 1350 | 1280 | 4100 | 85 | ☺ | | | 18,20 | 101 | | |
| | | 17 | 24.0 | 10415 | F17T8/XL/SPX50/ECO | 24 | 40000 | 45000 | 1300 | 1235 | 5000 | 82 | ☺ | | | 18,20 | 101 | | |
| | | 17 | 24.0 | 16092 | F17T8/XL/SPX65/ECO | 24 | 40000 | 45000 | 1250 | 1125 | 6500 | 78 | ☺ | | | 18,20 | 101 | | |
| 2' T8 Ecolux® 17 Watt Super Long Life | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 17 | 24.0 | | F17T8/SXL/SPX35/ECO | 24 | 55000 | 57000 | | | 3500 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 17 | 24.0 | | F17T8/SXL/SPX41/ECO | 24 | 55000 | 57000 | | | 4100 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 17 | 24.0 | | F17T8/SXL/SPX50/ECO | 24 | 55000 | 57000 | | | 5000 | 82 | ☺ | | | 18,21 | 101 | | |
| 3' T8 Ecolux® | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 25 | 36.0 | 45750 | F25T8/SP30/ECO | 24 | 30000 | 36000 | 2080 | 1970 | 3000 | 78 | | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 45754 | F25T8/SP35/ECO | 24 | 30000 | 36000 | 2080 | 1970 | 3500 | 78 | | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 45756 | F25T8/SP41/ECO | 24 | 30000 | 36000 | 2080 | 1970 | 4100 | 78 | | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 45753 | F25T8/SPX30/ECO | 24 | 30000 | 36000 | 2150 | 2040 | 3000 | 85 | ☺ | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 45755 | F25T8/SPX35/ECO | 24 | 30000 | 36000 | 2150 | 2040 | 3500 | 85 | ☺ | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 45757 | F25T8/SPX41/ECO | 24 | 30000 | 36000 | 2150 | 2040 | 4100 | 85 | ☺ | | | 18,20 | 101 | | |
| 3' T8 Ecolux® XL Extra-life | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 25 | 36.0 | 15486 | F25T8/XL/SP30/ECO | 24 | 40000 | 45000 | 2080 | 1970 | 3000 | 78 | | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 15487 | F25T8/XL/SP35/ECO | 24 | 40000 | 45000 | 2080 | 1970 | 3500 | 78 | | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 15488 | F25T8/XL/SP41/ECO | 24 | 40000 | 45000 | 2080 | 1970 | 4100 | 78 | | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 15489 | F25T8/XL/SPX30/ECO | 24 | 40000 | 45000 | 2150 | 2040 | 3000 | 85 | ☺ | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 15490 | F25T8/XL/SPX35/ECO | 24 | 40000 | 45000 | 2150 | 2040 | 3500 | 85 | ☺ | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 15491 | F25T8/XL/SPX41/ECO | 24 | 40000 | 45000 | 2150 | 2040 | 4100 | 85 | ☺ | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 10416 | F25T8/XL/SPX50/ECO | 24 | 40000 | 45000 | 2050 | 1950 | 5000 | 82 | ☺ | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 16314 | F25T8/XL/SPX65/ECO | 24 | 40000 | 45000 | 1950 | 1755 | 6500 | 78 | ☺ | | | 18,20 | 101 | | |
| 3' T8 Ecolux® 25 Watt Super Long Life | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 25 | 36.0 | | F25T8/SXL/SPX35/ECO | 24 | 55000 | 57000 | | | 3500 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 25 | 36.0 | | F25T8/SXL/SPX41/ECO | 24 | 55000 | 57000 | | | 4100 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 25 | 36.0 | | F25T8/SXL/SPX50/ECO | 24 | 55000 | 57000 | | | 5000 | 82 | ☺ | | | 18,21 | 101 | | |
| 4' T8 Ecolux® | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 48.0 | 66347 | F32T8/SPP30/ECO | 36 | 30000 | 36000 | 2900 | 2725 | 3000 | 80 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 66348 | F32T8/SPP35/ECO | 36 | 30000 | 36000 | 2900 | 2725 | 3500 | 80 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 66349 | F32T8/SPP41/ECO | 36 | 30000 | 36000 | 2900 | 2725 | 4100 | 80 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 66350 | F32T8/SPP50/ECO | 36 | 30000 | 36000 | 2900 | 2725 | 5000 | 80 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 66351 | F32T8/SPP65/ECO | 36 | 30000 | 36000 | 2900 | 2725 | 6500 | 78 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 68850 | F32T8/SPX30/ECO2 | 36 | 30000 | 36000 | 2925 | 2770 | 3000 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 68851 | F32T8/SPX35/ECO2 | 36 | 30000 | 36000 | 2925 | 2770 | 3500 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 68852 | F32T8/SPX41/ECO2 | 36 | 30000 | 36000 | 2925 | 2770 | 4100 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 68853 | F32T8/SPX50/ECO2 | 36 | 30000 | 36000 | 2900 | 2755 | 5000 | 82 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 66342 | F32T8/SPX65/ECO2 | 36 | 30000 | 36000 | 2900 | 2755 | 6500 | 78 | ☺ | | | 18,21 | 101 | | |
| | | 4' T8 Ecolux® XL Extra-life | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 48.0 | 68854 | F32T8/XL/SPX30/ECO2 | 36 | 40000 | 45000 | 2925 | 2770 | 3000 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 68855 | F32T8/XL/SPX35/ECO2 | 36 | 40000 | 45000 | 2925 | 2770 | 3500 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 68856 | F32T8/XL/SPX41/ECO2 | 36 | 40000 | 45000 | 2925 | 2770 | 4100 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 68857 | F32T8/XL/SPX50/ECO2 | 36 | 40000 | 45000 | 2850 | 2700 | 5000 | 82 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 68858 | F32T8/XL/SPX65/ECO2 | 36 | 40000 | 45000 | 2750 | 2610 | 6500 | 78 | ☺ | | | 18,21 | 101 | | |
| 4' T8 Ecolux® Super Long Life | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 48.0 | 73093 | F32T8/SXL/SPX30/ECO | 36 | 65000 | 67000 | 2850 | 2675 | 3000 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 73094 | F32T8/SXL/SPX35/ECO | 36 | 65000 | 67000 | 2850 | 2675 | 3500 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 73095 | F32T8/SXL/SPX41/ECO | 36 | 65000 | 67000 | 2850 | 2675 | 4100 | 82 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 73096 | F32T8/SXL/SPX50/ECO | 36 | 65000 | 67000 | 2800 | 2630 | 5000 | 80 | ☺ | | | 18,21 | 101 | | |
| 4' T8 Ecolux® High Color Rendering | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 48 | 66343 | F32T8/C50/ECO | 36 | 30000 | 36000 | 1700 | 1600 | 5000 | 90 | ☺ | | | | | | Chroma 50 |
| | | 32 | 48 | 66344 | F32T8/C75/ECO | 36 | 30000 | 36000 | 1700 | 1600 | 7500 | 93 | ☺ | | | | | | Chroma 75 |
| Ultra Energy Saving T8 Lamps | | | | | | | | | | | | | | | | | | | |
| 2' T8 Ecolux® Watt-Miser® 15 Watt Lamp | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 15 | 24.0 | 72132 | F17T8/XL/SPX30/WM/ECO | 24 | 45000 | 50000 | 1200 | 1130 | 3000 | 85 | ☺ | \$ | ✦ | 1,18,20 | 101 | | |
| | | 15 | 24.0 | 72133 | F17T8/XL/SPX35/WM/ECO | 24 | 45000 | 50000 | 1200 | 1130 | 3500 | 85 | ☺ | \$ | ✦ | 1,18,20 | 101 | | |
| | | 15 | 24.0 | 72134 | F17T8/XL/SPX41/WM/ECO | 24 | 45000 | 50000 | 1200 | 1130 | 4100 | 82 | ☺ | \$ | ✦ | 1,18,20 | 101 | | |
| | | 15 | 24.0 | 72135 | F17T8/XL/SPX50/WM/ECO | 24 | 45000 | 50000 | 1175 | 1105 | 5000 | 80 | ☺ | \$ | ✦ | 1,18,20 | 101 | | |

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3hr/Start) | Rated Life (12hr/Start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information |
|---|---------------------|-------|---------------------|------------|------------------------|----------|------------------------|-------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|------------------------|
| Ultra Energy Saving T8 Lamps (continued) | | | | | | | | | | | | | | | | | | |
| 3' T8 Ecolux® Watt-Miser® 22 Watt Lamp | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 22 | 36.0 | 72136 | F25T8/XL/SPX30/WM/ECO | 24 | 45000 | 50000 | 1925 | 1810 | 3000 | 85 | ☺ | \$ | ✖ | 1,18,20 | 101 | |
| | | 22 | 36.0 | 72137 | F25T8/XL/SPX35/WM/ECO | 24 | 45000 | 50000 | 1925 | 1810 | 3500 | 85 | ☺ | \$ | ✖ | 1,18,20 | 101 | |
| | | 22 | 36.0 | 72138 | F25T8/XL/SPX41/WM/ECO | 24 | 45000 | 50000 | 1925 | 1810 | 4100 | 82 | ☺ | \$ | ✖ | 1,18,20 | 101 | |
| | | 22 | 36.0 | 72139 | F25T8/XL/SPX50/WM/ECO | 24 | 45000 | 50000 | 1900 | 1785 | 5000 | 80 | ☺ | \$ | ✖ | 1,18,20 | 101 | |
| 4' T8 Ecolux® 25 Watt Lamp | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 25 | 48.0 | 66467 | F32T8/25W/SPP35/ECO | 36 | 40000 | 45000 | 2500 | 2350 | 3500 | 80 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 25 | 48.0 | 66468 | F32T8/25W/SPP41/ECO | 36 | 40000 | 45000 | 2500 | 2350 | 4100 | 80 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 25 | 48.0 | 66469 | F32T8/25W/SPP50/ECO | 36 | 40000 | 45000 | 2500 | 2350 | 5000 | 80 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 25 | 48.0 | 72128 | F32T8/25W/SPX30/ECO | 36 | 50000 | 55000 | 2500 | 2350 | 3000 | 85 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 25 | 48.0 | 72129 | F32T8/25W/SPX35/ECO | 36 | 50000 | 55000 | 2500 | 2350 | 3500 | 85 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 25 | 48.0 | 72130 | F32T8/25W/SPX41/ECO | 36 | 50000 | 55000 | 2500 | 2350 | 4100 | 85 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 25 | 48.0 | 72131 | F32T8/25W/SPX50/ECO | 36 | 50000 | 55000 | 2500 | 2350 | 5000 | 80 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| 4' T8 Ecolux® 25 Watt Super Long Life | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 25 | 48.0 | 93905 | F32T825W/SXL/SPX35/ECO | 36 | 80,000 | 84,000 | 2,400 | 2,260 | 3500 | 82 | ☺ | \$ | ✖ | 18, 21 | 101 | CEE Approved |
| | | 25 | 48.0 | 93906 | F32T825W/SXL/SPX41/ECO | 36 | 80,000 | 84,000 | 2,400 | 2,260 | 4100 | 82 | ☺ | \$ | ✖ | 18, 21 | 101 | CEE Approved |
| | | 25 | 48.0 | 93907 | F32T825W/SXL/SPX50/ECO | 36 | 80,000 | 84,000 | 2,400 | 2,260 | 5000 | 80 | ☺ | \$ | ✖ | 18, 21 | 101 | CEE Approved |
| 4' T8 Ecolux® UltraMax® 28 Watt Lamp | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 28 | 48.0 | 66471 | F28T8/XL/SPP35/ECO | 36 | 40000 | 45000 | 2600 | 2440 | 3500 | 80 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 28 | 48.0 | 66472 | F28T8/XL/SPP41/ECO | 36 | 40000 | 45000 | 2600 | 2440 | 4100 | 80 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 28 | 48.0 | 66473 | F28T8/XL/SPP50/ECO | 36 | 40000 | 45000 | 2600 | 2440 | 5000 | 80 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 28 | 48.0 | 72863 | F28T8/XL/SPX30/ECO | 36 | 45000 | 50000 | 2675 | 2515 | 3000 | 85 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 28 | 48.0 | 72864 | F28T8/XL/SPX35/ECO | 36 | 45000 | 50000 | 2675 | 2515 | 3500 | 85 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 28 | 48.0 | 72866 | F28T8/XL/SPX41/ECO | 36 | 45000 | 50000 | 2675 | 2515 | 4100 | 82 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 28 | 48.0 | 72867 | F28T8/XL/SPX50/ECO | 36 | 45000 | 50000 | 2675 | 2515 | 5000 | 80 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 28 | 48.0 | 66346 | F28T8/XL/SPX65/ECO | 36 | 45000 | 50000 | 2600 | 2440 | 6500 | 80 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| 4' T8 Ecolux® UltraMax® 28 Watt Super Long Life | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 28 | 48.0 | 93902 | F28T8/SXL/SPX35/ECO | 36 | 80,000 | 84,000 | 2,600 | 2,440 | 3500 | 82 | ☺ | \$ | ✖ | 18, 21 | 101 | CEE Approved |
| | | 28 | 48.0 | 93903 | F28T8/SXL/SPX41/ECO | 36 | 80,000 | 84,000 | 2,600 | 2,440 | 4100 | 82 | ☺ | \$ | ✖ | 18, 21 | 101 | CEE Approved |
| | | 28 | 48.0 | 93904 | F28T8/SXL/SPX50/ECO | 36 | 80,000 | 84,000 | 2,600 | 2,440 | 5000 | 80 | ☺ | \$ | ✖ | 18, 21 | 101 | CEE Approved |
| 4' T8 Ecolux® High Lumen | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 48.0 | 10327 | F32T8/XL/SPX30/HL/ECO | 36 | 40000 | 45000 | 3100 | 2915 | 3000 | 85 | ☺ | \$ | | 18,21 | 101 | CEE Approved |
| | | 32 | 48.0 | 10326 | F32T8/XL/SPX35/HL/ECO | 36 | 40000 | 45000 | 3100 | 2915 | 3500 | 85 | ☺ | \$ | | 18,21 | 101 | CEE Approved |
| | | 32 | 48.0 | 10322 | F32T8/XL/SPX41/HL/ECO | 36 | 40000 | 45000 | 3100 | 2915 | 4100 | 82 | ☺ | \$ | | 18,21 | 101 | CEE Approved |
| | | 32 | 48.0 | 42556 | F32T8/XL/SPX50/HL/ECO | 36 | 40000 | 45000 | 3000 | 2820 | 5000 | 80 | ☺ | \$ | | 18,21 | 101 | CEE Approved |
| 8' T8 Lamps | | | | | | | | | | | | | | | | | | |
| 8' T8 XL Extra-Life | | | | | | | | | | | | | | | | | | |
| T8 | Single Pin (Fa8) | 59 | 96.0 | 67969 | F96T8/XL/SPP35 | 24 | 24000 | 30000 | 5800 | 5220 | 3500 | 80 | ☺ | | | | 101 | |
| | | 59 | 96.0 | 67970 | F96T8/XL/SPP41 | 24 | 24000 | 30000 | 5800 | 5220 | 4100 | 80 | ☺ | | | | 101 | |
| | | 59 | 96.0 | 67971 | F96T8/XL/SPP50 | 24 | 24000 | 30000 | 5800 | 5220 | 5000 | 80 | ☺ | | | | 101 | |
| | | 59 | 96.0 | 68868 | F96T8/XL/SPX30/2 | 24 | 24000 | 30000 | 5950 | 5650 | 3000 | 85 | ☺ | | | | 101 | |
| | | 59 | 96.0 | 68869 | F96T8/XL/SPX35/2 | 24 | 24000 | 30000 | 5950 | 5650 | 3500 | 85 | ☺ | | | | 101 | |
| | | 59 | 96.0 | 68870 | F96T8/XL/SPX41/2 | 24 | 24000 | 30000 | 5950 | 5650 | 4100 | 85 | ☺ | | | | 101 | |
| | | 59 | 96.0 | 68871 | F96T8/XL/SPX50/2 | 24 | 24000 | 30000 | 5950 | 5650 | 5000 | 82 | ☺ | | | | 101 | |
| 8' T8 XL Extra-Life Watt-Miser® Plus Energy Saving Lamps | | | | | | | | | | | | | | | | | | |
| T8 | Single Pin (Fa8) | 54 | 96.0 | 66891 | F96T8/54W/SPP35 | 24 | 24000 | 30000 | 5250 | 4900 | 3500 | 80 | ☺ | \$ | ✖ | 1 | 101 | |
| | | 54 | 96.0 | 66892 | F96T8/54W/SPP41 | 24 | 24000 | 30000 | 5250 | 4900 | 4100 | 80 | ☺ | \$ | ✖ | 1 | 101 | |
| | | 54 | 96.0 | 47076 | F96T8/XL/SP35/WMP | 24 | 24000 | 30000 | 5800 | 5450 | 3500 | 85 | ☺ | \$ | ✖ | 1 | 101 | |
| | | 54 | 96.0 | 47103 | F96T8/XL/SP41/WMP | 24 | 24000 | 30000 | 5800 | 5450 | 4100 | 82 | ☺ | \$ | ✖ | 1 | 101 | |
| | | 54 | 96.0 | 66889 | F96T8/XL/SP50/WMP | 24 | 24000 | 30000 | 5500 | 5160 | 5000 | 80 | ☺ | \$ | ✖ | 1 | 101 | |
| | | 54 | 96.0 | 66890 | F96T8/XL/SP65/WMP | 24 | 24000 | 30000 | 5400 | 5020 | 6500 | 78 | ☺ | \$ | ✖ | 1 | 101 | |
| 8' T8 49W XL Extra-Life Watt-Miser® Energy Saving Lamps | | | | | | | | | | | | | | | | | | |
| T8 | Single Pin (Fa8) | 49 | 96.0 | 66894 | F96T8/49W/SPP35 | 24 | 24000 | 30000 | 4800 | 4500 | 3500 | 80 | ☺ | \$ | ✖ | 1 | 101 | |
| | | 49 | 96.0 | 66895 | F96T8/49W/SPP41 | 24 | 24000 | 30000 | 4800 | 4500 | 4100 | 80 | ☺ | \$ | ✖ | 1 | 101 | |
| | | 49 | 96.0 | 79401 | F96T8/49W/SPX30 | 24 | 24000 | 30000 | 5000 | 4700 | 3000 | 84 | ☺ | \$ | ✖ | 1 | 101 | |
| | | 49 | 96.0 | 79402 | F96T8/49W/SPX35 | 24 | 24000 | 30000 | 5000 | 4700 | 3500 | 84 | ☺ | \$ | ✖ | 1 | 101 | |
| | | 49 | 96.0 | 79403 | F96T8/49W/SPX41 | 24 | 24000 | 30000 | 5000 | 4700 | 4100 | 83 | ☺ | \$ | ✖ | 1 | 101 | |

Fluorescent Lamps

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information |
|---|--------------------------------|-------|---------------------|------------|-----------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|--|
| 8' T8 Lamps (continued) | | | | | | | | | | | | | | | | | | |
| 8' T8 Instant Start | | | | | | | | | | | | | | | | | | |
| T8 | Single Pin (Fa8) | 50 | 96.0 | 10912 | F96T8/CW | 24 | 7500 | | 4050 | 3730 | 4100 | 60 | | | | | 101 | |
| 8' T8 High Output | | | | | | | | | | | | | | | | | | |
| 8' T8 High Output – Recessed Double Contact | | | | | | | | | | | | | | | | | | |
| T8 | Recessed Double Contact (R17d) | 86 | 96.0 | 12536 | F96T8/SP30/HO | 24 | 18000 | | 8000 | 7600 | 3000 | 78 | | | | | 101 | |
| | | 86 | 96.0 | 12537 | F96T8/SP35/HO | 24 | 18000 | | 8000 | 7600 | 3500 | 78 | | | | | 101 | |
| | | 86 | 96.0 | 12538 | F96T8/SP41/HO | 24 | 18000 | | 8000 | 7600 | 4100 | 78 | | | | | 101 | |
| | | 86 | 96.0 | 12533 | F96T8/SPX35/HO | 24 | 18000 | | 8200 | 7800 | 3500 | 85 | ☺ | | | | 101 | |
| | | 86 | 96.0 | 12534 | F96T8/SPX41/HO | 24 | 18000 | | 8200 | 7800 | 4100 | 85 | ☺ | | | | 101 | |
| | | 86 | 96.0 | 12535 | F96T8/SPX50/HO | 24 | 18000 | | 8200 | 7800 | 5000 | 82 | ☺ | | | | 101 | |
| | | 86 | 96.0 | 66897 | F96T8/SPX65/HO | 24 | 18000 | | 8000 | 7500 | 6500 | 78 | ☺ | | | | 101 | |
| T8 Mod-U-Line® | | | | | | | | | | | | | | | | | | |
| T8 1-5/8" Spacing Ecolux® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 31 | 22.5 | 72117 | F31T8/SPX30/U/ECO | 15 | 24000 | | 2775 | 2440 | 3000 | 82 | ☺ | | | 20 | 102 | |
| | | 31 | 22.5 | 72118 | F31T8/SPX35/U/ECO | 15 | 24000 | | 2775 | 2440 | 3500 | 82 | ☺ | | | 20 | 102 | |
| | | 31 | 22.5 | 72119 | F31T8/SPX41/U/ECO | 15 | 24000 | | 2775 | 2440 | 4100 | 82 | ☺ | | | 20 | 102 | |
| T8 1-5/8" 29W Ecolux® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 29 | 22.5 | 62172 | F29T8/SPX30/U/ECO | 15 | 24000 | | 2500 | 2200 | 3000 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| | | 29 | 22.5 | 62173 | F29T8/SPX35/U/ECO | 15 | 24000 | | 2500 | 2200 | 3500 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| | | 29 | 22.5 | 62174 | F29T8/SPX41/U/ECO | 15 | 24000 | | 2500 | 2200 | 4100 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| T8 1-5/8" 26W Ecolux® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 26 | 22.5 | 62169 | F26T8/SPX30/U/ECO | 15 | 24000 | | 2250 | 1980 | 3000 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| | | 26 | 22.5 | 62170 | F26T8/SPX35/U/ECO | 15 | 24000 | | 2250 | 1980 | 3500 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| | | 26 | 22.5 | 62171 | F26T8/SPX41/U/ECO | 15 | 24000 | | 2250 | 1980 | 4100 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| T8 6" Spacing | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 22.5 | 68920 | F32T8/SPX30/U6/2 | 12 | 20000 | | 2800 | 2630 | 3000 | 82 | ☺ | | | 20 | 102 | |
| | | 32 | 22.5 | 68921 | F32T8/SPX35/U6/2 | 12 | 20000 | | 2800 | 2630 | 3500 | 82 | ☺ | | | 20 | 102 | |
| | | 32 | 22.5 | 68922 | F32T8/SPX41/U6/2 | 12 | 20000 | | 2800 | 2630 | 4100 | 82 | ☺ | | | 20 | 102 | |
| | | 32 | 22.5 | 68923 | F32T8/SPX50/U6/2 | 12 | 20000 | | 2660 | 2510 | 5000 | 82 | ☺ | | | 20 | 102 | |
| T8 6" Spacing Ecolux® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 22.5 | 28145 | F32T8/SP30/U6/ECO | 12 | 20000 | | 2700 | 2375 | 3000 | 78 | | | | 20 | 102 | |
| | | 32 | 22.5 | 28149 | F32T8/SP35/U6/ECO | 12 | 20000 | | 2700 | 2375 | 3500 | 78 | | | | 20 | 102 | |
| | | 32 | 22.5 | 28152 | F32T8/SP41/U6/ECO | 12 | 20000 | | 2700 | 2375 | 4100 | 78 | | | | 20 | 102 | |
| | | 32 | 22.5 | 72111 | F32T8/SPX30/U6/ECO | 12 | 20000 | | 2800 | 2465 | 3000 | 82 | ☺ | | | 20 | 102 | |
| | | 32 | 22.5 | 72112 | F32T8/SPX35/U6/ECO | 12 | 20000 | | 2800 | 2465 | 3500 | 82 | ☺ | | | 20 | 102 | |
| | | 32 | 22.5 | 72113 | F32T8/SPX41/U6/ECO | 12 | 20000 | | 2800 | 2465 | 4100 | 82 | ☺ | | | 20 | 102 | |
| T8 6" Spacing Ecolux® Watt-Miser® 30 Watt Lamp | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 30 | 22.5 | 72114 | F32T8/SPX30/U6/WM/ECO | 12 | 24000 | | 2800 | 2465 | 3000 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| | | 30 | 22.5 | 72115 | F32T8/SPX35/U6/WM/ECO | 12 | 24000 | | 2800 | 2465 | 3500 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| | | 30 | 22.5 | 72116 | F32T8/SPX41/U6/WM/ECO | 12 | 24000 | | 2800 | 2465 | 4100 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| T8 6" Spacing Ecolux® 28 Watt Lamp | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 28 | 23.0 | 67394 | F28T8/SPX30/U6/ECO | 12 | 20000 | | 2500 | 2200 | 3000 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| | | 28 | 23.0 | 67395 | F28T8/SPX35/U6/ECO | 12 | 20000 | | 2500 | 2200 | 3500 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| | | 28 | 23.0 | 67396 | F28T8/SPX41/U6/ECO | 12 | 20000 | | 2500 | 2200 | 4100 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| Other T8 Lengths | | | | | | | | | | | | | | | | | | |
| 18" T8 w/Starcoat® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 15 | 18.0 | 49489 | F15T8/XL/SPX65 | 24 | 24000 | | 850 | 800 | 6500 | 75 | ☺ | | | | 101 | |
| 5' T8 w/Starcoat® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 40 | 60.0 | 22660 | F40T8/SPX30 | 24 | 20000 | | 3725 | 3350 | 3000 | 84 | ☺ | | | | 101 | |
| | | 40 | 60.0 | 22661 | F40T8/SPX35 | 24 | 20000 | | 3725 | 3350 | 3500 | 84 | ☺ | | | | 101 | |
| | | 40 | 60.0 | 22662 | F40T8/SPX41 | 24 | 20000 | | 3725 | 3350 | 4100 | 84 | ☺ | | | | 101 | |
| 6' T8 Instant Start | | | | | | | | | | | | | | | | | | |
| T8 | Single Pin (Fa8) | 35 | 72.0 | 10829 | F72T8/CW | 24 | 7500 | | 3000 | 2730 | 4100 | 60 | | | | | 101 | Not for sale for use in OR |
| | | 35 | 72.0 | 10835 | F72T8/MW 6PK | 6 | 7500 | | 3100 | 2820 | 3000 | 52 | | | | | 101 | Warm White, Not for sale for use in OR |

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information |
|---|---------------------|-----------------------------|---------------------|------------|-----------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|------------------------|
| T8 PolyLux | | | | | | | | | | | | | | | | | | |
| 2' T8 PolyLux | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 18 | 24.0 | 93311 | F18T8/835/XLR | 25 | 20000 | | 1350 | 1280 | 3500 | 85 | ☺ | | | | 101 | |
| | | 18 | 24.0 | 93317 | F18T8/841/XLR | 25 | 20000 | | 1350 | 1280 | 4100 | 85 | ☺ | | | | | 101 |
| 4' T8 PolyLux | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 36 | 48.0 | 19991 | F36WT8/835/XLR | 25 | 20000 | | 3350 | 3180 | 3500 | 85 | ☺ | | | | 101 | |
| | | 36 | 48.0 | 16856 | F36WT8/841/XLR | 25 | 20000 | | 3350 | 3180 | 3500 | 85 | ☺ | | | | | 101 |
| 5' T8 PolyLux | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 58 | 60.0 | 40120 | F58T8/835/PLY/XLR | 25 | 20000 | | 5200 | 4940 | 3500 | 85 | ☺ | | | | 101 | |
| | | 58 | 60.0 | 40081 | F58T8/841/PLY/XLR | 25 | 20000 | | 5200 | 4940 | 4000 | 85 | ☺ | | | | | 101 |
| 6' T8 PolyLux | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 70 | 70.0 | 62572 | F70T8/835/PLY/XLR | 25 | 20000 | | 6000 | 5985 | 3500 | 85 | ☺ | | | | 101 | |
| | | 70 | 70.0 | 62573 | F70T8/840/PLY/XLR | 25 | 20000 | | 6000 | 5985 | 4100 | 85 | ☺ | | | | | 101 |
| T8 Preheat | | | | | | | | | | | | | | | | | | |
| 12" T8 | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 13 | 12.0 | 10098 | F13T8/CW | 24 | 7500 | | 565 | 480 | 4100 | 60 | | | | | 101 | |
| 15" T8 | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 14 | 15.0 | 10104 | F14T8/CW | 24 | 7500 | | 685 | 580 | 4100 | 60 | | | | | 101 | |
| 18" T8 | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 15 | 18.0 | 17911 | F15T8/SP35 | 24 | 7500 | | 940 | 850 | 3500 | 75 | | | | | 101 | |
| | | 15 | 18.0 | 19643 | F15T8/SP41 | 24 | 7500 | | 940 | 850 | 4100 | 72 | | | | | 101 | |
| | | 15 | 18.0 | 19644 | F15T8/SPX30 | 24 | 7500 | | 1000 | 900 | 3000 | 82 | ☺ | | | | 101 | |
| | | 15 | 18.0 | 19645 | F15T8/SPX35 | 24 | 7500 | | 1000 | 900 | 3500 | 82 | ☺ | | | | 101 | |
| | | 15 | 18.0 | 10142 | F15T8/CW | 24 | 7500 | | 825 | 725 | 4100 | 60 | | | | | 101 | |
| | | 15 | 18.0 | 10143 | F15T8/CW 6PK | 24 | 7500 | | 825 | 725 | 4100 | 60 | | | | | 101 | |
| | | 15 | 18.0 | 10134 | F15T8/D | 24 | 7500 | | 700 | 615 | 6500 | 75 | | | | | 101 | Daylight |
| | | 15 | 18.0 | 21326 | F15T8/KB 6PK | 24 | 7500 | | 940 | 850 | 3000 | 70 | | | | | 104 | Kitchen & Bath |
| | | 15 | 18.0 | 13968 | F15T8/SUN 6PK | 24 | 7500 | | 620 | 525 | 5000 | 90 | ☺ | | | | 101 | Sunlight |
| | | 15 | 18.0 | 10147 | F15T8/WW | 24 | 7500 | | 845 | 745 | 3000 | 52 | | | | | 101 | Warm White |
| 36" T8 | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 30 | 36.0 | 10316 | F30T8/CW 6PK | 24 | 7500 | | 2150 | 1980 | 4100 | 60 | | | | | 101 | |
| | | 30 | 36.0 | 10310 | F30T8/D | 24 | 7500 | | 1850 | 1625 | 6500 | 75 | | | | | 101 | Daylight |
| | | 30 | 36.0 | 22747 | F30T8/KB 6PK | 24 | 7500 | | 2125 | 1910 | 3000 | 70 | | | | | 104 | Kitchen & Bath |
| T12 Lamps | | | | | | | | | | | | | | | | | | |
| 3' T12 Ecolux® - Rapid Start | | | | | | | | | | | | | | | | | | |
| 25W | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 25 | 36.0 | 80080 | F25T12/SP30/RS/WM/ECO | 24 | 18000 | | 2025 | 1780 | 3000 | 70 | | \$ | ☹ | | 101 | |
| | | 25 | 36.0 | 80081 | F25T12/SP35/RS/WM/ECO | 24 | 18000 | | 2025 | 1780 | 3500 | 73 | | \$ | ☹ | | 101 | |
| | | 25 | 36.0 | 80065 | F25T12/CWRSWM/ECO | 24 | 18000 | | 1925 | 1640 | 4100 | 60 | | \$ | ☹ | | 101 | |
| | | 25 | 36.0 | 80077 | F25T12/WW/RS/WM/ECO | 24 | 18000 | | 1975 | 1640 | 3000 | 52 | | \$ | ☹ | | 101 | Warm White |
| 30W | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 30 | 36.0 | 80087 | F30T12/SP35/RS/ECO | 24 | 18000 | | 2350 | 2120 | 3500 | 73 | | | | | 101 | |
| | | 30 | 36.0 | 80088 | F30T12/SP41/RS/ECO | 24 | 18000 | | 2350 | 2120 | 4100 | 72 | | | | | 101 | |
| | | 30 | 36.0 | 80089 | F30T12/SPX30/RS/ECO | 24 | 18000 | | 2375 | 2140 | 3000 | 82 | ☺ | | | | 101 | |
| | | 30 | 36.0 | 80090 | F30T12/SPX35/RS/ECO | 24 | 18000 | | 2375 | 2140 | 3500 | 82 | ☺ | | | | 101 | |
| | | 30 | 36.0 | 80083 | F30T12/C50/RS/ECO | 24 | 18000 | | 1650 | 1350 | 5000 | 90 | ☺ | | | | 101 | Chroma 50 |
| | | 30 | 36.0 | 80084 | F30T12/CW/RS/ECO | 24 | 18000 | | 2200 | 1910 | 4100 | 60 | | | | | 101 | |
| | | 30 | 36.0 | 80085 | F30T12/CW/RS/ECO 6PK | 24 | 18000 | | 2200 | 1910 | 4100 | 60 | | | | | 101 | |
| | | 30 | 36.0 | 80086 | F30T12/D/RS/ECO | 24 | 18000 | | 1900 | 1650 | 6500 | 75 | | | | | 101 | Daylight |
| | | 30 | 36.0 | 80091 | F30T12/WW/RS/ECO | 24 | 18000 | | 2275 | 1980 | 3000 | 52 | | | | | 101 | Warm White |
| | | 4' T12 - Rapid Start | | | | | | | | | | | | | | | | |
| 34W Watt-Miser® Ecolux® - TCLP Compliant | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 34 | 48.0 | 66474 | F34CX41/WM/ECO | 30 | 20000 | | 2500 | 2200 | 4100 | 87 | ☺ | \$ | ☹ | 1 | 101 | |
| | | 34 | 48.0 | 66649 | F34CW/C/WM/ECO | 30 | 15000 | | 1800 | 1500 | 4100 | 87 | ☺ | \$ | ☹ | 1 | 101 | |
| | | 34 | 48.0 | 80092 | F34C50/RS/WM/ECO | 30 | 20000 | | 2000 | 1720 | 5000 | 90 | ☺ | \$ | ☹ | 1 | 101 | Chroma 50 |
| | | 34 | 48.0 | 80093 | F34DX/RS/WM/ECO | 30 | 20000 | | 1750 | 1450 | 6500 | 90 | ☺ | \$ | ☹ | 1 | 101 | Daylight Deluxe |

Fluorescent Lamps

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information |
|---|---------------------|-------|-----------------------|------------|-----------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|------------------------------------|
| T12 Lamps (continued) | | | | | | | | | | | | | | | | | | |
| 4' T12 – Rapid Start (continued) | | | | | | | | | | | | | | | | | | |
| 40W Ecolux® – TCLP Compliant | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 40 | 48.0 | 66650 | F40UT/ECO/UPC | 30 | 15000 | | 2100 | 1900 | 4100 | 87 | ☺ | | | | 101 | |
| | | 40 | 48.0 | 80096 | F40C50/ECO | 30 | 20000 | | 2250 | 1870 | 5000 | 90 | ☺ | | | | 101 | Chroma 50 |
| | | 40 | 48.0 | 25399 | F40C50/ECO/UPC | 30 | 20000 | | 2250 | 1870 | 5000 | 90 | ☺ | | | | 101 | Chroma 50 |
| | | 40 | 48.0 | 13795 | F40C75 30PK | 30 | 20000 | | 1950 | 1680 | 7500 | 92 | ☺ | | | | 101 | Not for Sale for Use in CA, VM, OR |
| | | 40 | 48.0 | 80097 | F40DX/ECO | 30 | 20000 | | 2050 | 1740 | 6500 | 90 | ☺ | | | | 101 | Daylight Deluxe |
| | | 40 | 48.0 | 80098 | F40N/ECO | 30 | 20000 | | 2100 | 1740 | 3700 | 90 | ☺ | | | | 101 | Natural |
| | | 40 | 48.0 | 12224 | F40SUN/ECO 6PK | 24 | 20000 | | 2250 | 1870 | 5000 | 90 | ☺ | | | | 101 | Sunlight |
| Watt-Miser® Energy Saving Lamps | | | | | | | | | | | | | | | | | | |
| T12 3-5/8" Spacing Watt-Miser® | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 35 | 22.5 | 68050 | F35/CW/C/U3/W/M | 12 | 14000 | | 1650 | 1400 | 4100 | 87 | | | | | | |
| | | 35 | 23.0 | 66854 | F35/CX41/U3/W/M | 12 | 14000 | | 2300 | 2185 | 4100 | 87 | ☺ | \$ | ↔ | 1 | 102 | |
| T12 6" Spacing Watt-Miser® | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 35 | 22.5 | 68051 | F35/CW/C/U6/W/M | 12 | 14000 | | 1650 | 1400 | 4100 | 87 | | | | | | |
| | | 35 | 23.0 | 66855 | F35/CX41/U6/W/M | 12 | 14000 | | 2300 | 2185 | 4100 | 87 | ☺ | \$ | ↔ | 1 | 102 | |
| | | 35 | 23.0 | 66851 | F35/CX41/U6WMUPC | 12 | 14000 | | 2300 | 2185 | 4100 | 87 | ☺ | \$ | ↔ | 1 | 102 | |
| T12 Instant Start | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 20 | 24.0 | 10691 | F24T12/CW | 24 | 7500 | | 1050 | 900 | 4100 | 60 | | | | | | 101 |
| | | 30 | 36.0 cm | 10709 | F36T12/CW | 24 | 7500 | | 2000 | 1800 | 4100 | 60 | | | | | | 101 |
| | | 35 | 42.0 | 10735 | F42T12/CW | 24 | 7500 | | 2400 | 2210 | 4100 | 60 | | | | | | 101 |
| | | 40 | 48.0 | 15262 | F48T12/SP35 | 24 | 9000 | | 3000 | 2820 | 3500 | 73 | | | | | | 101 |
| | | 40 | 48.0 | 15088 | F48T12/SPX30 | 24 | 9000 | | 3050 | 2870 | 3000 | 82 | ☺ | | | | | 101 |
| | | 40 | 48.0 | 15116 | F48T12/SPX35 | 24 | 9000 | | 3050 | 2870 | 3500 | 82 | ☺ | | | | | 101 |
| | | 40 | 48.0 | 10748 | F48T12/CW | 24 | 9000 | | 2875 | 2650 | 4100 | 60 | | | | | | 101 |
| | | 40 | 48.0 | 20461 | F48T12/CW/UPC 6PK | 24 | 9000 | | 2875 | 2650 | 4100 | 60 | | | | | | 101 |
| Watt-Miser® Energy Saving Lamps | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 30 | 48.0 | 14319 | F48T12/SP35/W/M | 24 | 9000 | | 2575 | 2420 | 3500 | 73 | | \$ | ↔ | 1 | 101 | |
| | | 30 | 48.0 | 13048 | F48T12/SP41/W/M | 24 | 9000 | | 2575 | 2420 | 4100 | 72 | | \$ | ↔ | 1 | 101 | |
| | | 30 | 48.0 | 44967 | F48T12/CW/W/M | 24 | 9000 | | 2475 | 2400 | 4100 | 60 | | \$ | ↔ | 1 | 101 | |
| 8' T12 Instant Start | | | | | | | | | | | | | | | | | | |
| 8' Instant Start Standard | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 75 | 96.0 | 14652 | F96T12/DX | 15 | 12000 | | 4300 | 3870 | 6500 | 90 | ☺ | | | | 101 | Daylight Deluxe |
| | | 75 | 96.0 | 13725 | F96T12/N 15PK | 15 | 12000 | | 4250 | 3740 | 3700 | 90 | ☺ | | | | 101 | Natural |
| | | 75 | 96.0 | 13752 | F96T12/C50 | 15 | 12000 | | 4600 | 4050 | 5000 | 90 | ☺ | | | | 101 | Chroma 50 |
| Watt-Miser® Energy Saving Lamps | | | | | | | | | | | | | | | | | | |
| 8" Instant Start Watt-Miser® | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 60 | 96.0 | 13756 | F96T12/C50/W/M 15PK | 15 | 12000 | | 4000 | 3520 | 5000 | 90 | ☺ | \$ | ↔ | 1 | 101 | Chroma 50 |
| 8" Instant Start Watt-Miser® XL Extra-life | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 60 | 96.0 | 68052 | F96T12/CW/C/W/M | 15 | 12000 | | 3600 | 2900 | 4100 | 90 | | | | | | |
| | | 60 | 96.0 | 66857 | F96T12XL/HL35/W/M | 15 | 12000 | | 5900 | 5480 | 3500 | 80 | ☺ | \$ | ↔ | 1 | 101 | |
| | | 60 | 96.0 | 66858 | F96T12XL/HL41/W/M | 15 | 12000 | | 5900 | 5480 | 4100 | 80 | ☺ | \$ | ↔ | 1 | 101 | |
| | | 60 | 96.0 | 66859 | F96T12XL/HL50/W/M | 15 | 12000 | | 5900 | 5480 | 5000 | 80 | ☺ | \$ | ↔ | 1 | 101 | |
| | | 60 | 96.0 | 66860 | F96T12XL/HL65/W/M | 15 | 12000 | | 5700 | 5290 | 6500 | 78 | ☺ | \$ | ↔ | 1 | 101 | |
| | | 60 | 96.0 | 66856 | F96T12XL/HL35/W/M/UPC | 15 | 12000 | | 5900 | 5480 | 3500 | 80 | ☺ | \$ | ↔ | 1 | 101 | |
| 60 | 96.0 | 66852 | F96T12XL/HL41/W/M/UPC | 15 | 12000 | | 5900 | 5480 | 4100 | 80 | ☺ | \$ | ↔ | 1 | 101 | | | |
| T12 Other Lengths | | | | | | | | | | | | | | | | | | |
| 5' T12 Instant Start | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 50 | 60.0 | 23073 | F60T12/CW 15PK | 15 | 12000 | | 3600 | 3310 | 4100 | 60 | | | | | 101 | |
| | | 50 | 60.0 | 23076 | F60T12/D 15PK | 15 | 12000 | | 3000 | 2760 | 6500 | 75 | | | | | 101 | Daylight |
| 64" T12 Instant Start | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 50 | 64.0 | 23082 | F64T12/CW15PK | 15 | 10000 | | 3850 | 3540 | 4100 | 60 | | | | | 101 | |
| | | 50 | 64.0 | 23085 | F64T12/D 15PK | 15 | 10000 | | 3300 | 3040 | 6500 | 75 | | | | | 101 | Daylight |

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information | |
|--|--------------------------------|---|---------------------|------------|--------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|------------------------|------------|
| T12 Lamps (continued) | | | | | | | | | | | | | | | | | | | |
| T12 Other Lengths (continued) | | | | | | | | | | | | | | | | | | | |
| 6' T12 Instant Start | | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 55 | 72.0 | 15286 | F72T12/SP35 15PK | 15 | 12000 | | 4700 | 4420 | 3500 | 73 | | | | | 101 | | |
| | | 55 | 72.0 | 15097 | F72T12/SP41 | 15 | 12000 | | 4700 | 4420 | 4100 | 72 | | | | | 101 | | |
| | | 55 | 72.0 | 15117 | F72T12/SPX30 15PK | 15 | 12000 | | 4800 | 4510 | 3000 | 82 | ☺ | | | | 101 | | |
| | | 55 | 72.0 | 15098 | F72T12/SPX35 15PK | 15 | 12000 | | 4800 | 4510 | 3500 | 82 | ☺ | | | | 101 | | |
| | | 55 | 72.0 | 13743 | F72T12/CW 15PK | 15 | 12000 | | 4500 | 4140 | 4100 | 60 | | | | | | 101 | |
| | | 55 | 72.0 | 12525 | F72T12/CW/UPC 10PK | 10 | 12000 | | 4500 | 4140 | 4100 | 60 | | | | | | 101 | |
| | | 55 | 72.0 | 13748 | F72T12/D 15PK | 15 | 12000 | | 3800 | 3500 | 6500 | 75 | | | | | | 101 | Daylight |
| 7' T12 Instant Start | | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 65 | 84.0 | 13764 | F84T12/CW 15PK | 15 | 12000 | | 5300 | 4880 | 4100 | 60 | | | | | 101 | | |
| T12 High Output (800mA) Rapid Start Recessed Double Contact | | | | | | | | | | | | | | | | | | | |
| 18" High Output | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 30 | 18.0 | 10204 | F18T12/CW/HO | 24 | 9000 | | 1000 | 750 | 4100 | 60 | | | | | 101 | | |
| 2' High Output | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 35 | 24.0 | 10261 | F24T12/CW/HO | 24 | 9000 | | 1620 | 1345 | 4100 | 60 | | | | | 101 | | |
| | | 35 | 24.0 | 10275 | F24T12/D/HO | 24 | 9000 | | 1400 | 1160 | 6500 | 74 | | | | | 101 | Daylight | |
| 30" High Output | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 40 | 30.0 | 33707 | F30T12/CW/HO | 24 | 9000 | | 2250 | 1950 | 4100 | 60 | | | | | 101 | | |
| 3' High Output | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 45 | 36.0 | 10374 | F36T12/CW/HO | 24 | 9000 | | 2800 | 2440 | 4100 | 60 | | | | | 101 | | |
| | | 45 | 36.0 | 10380 | F36T12/D/HO | 24 | 9000 | | 2350 | 2040 | 6500 | 75 | | | | | 101 | | |
| | | 45 | 36.0 | 10388 | F36T12/SGN/HO | 24 | 9000 | | 2150 | 1830 | 5400 | 82 | ☺ | | | | 101 | | |
| 42" High Output | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 55 | 42.0 | 10559 | F42T12/CW/HO | 24 | 9000 | | 3200 | 2790 | 4100 | 60 | | | | | 101 | | |
| | | 55 | 42.0 | 10560 | F42T12/D/HO | 24 | 9000 | | 2900 | 2520 | 6500 | 74 | | | | | 101 | Daylight | |
| | | 55 | 42.0 | 10562 | F42T12/SGN/HO | 24 | 9000 | | 2600 | 2215 | 5400 | 82 | ☺ | | | | 101 | Sign White | |
| 4' High Output | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 60 | 48.0 | 15359 | F48T12/SP30/HO | 24 | 12000 | | 4250 | 3830 | 3000 | 70 | | | | | | 101 | |
| | | 60 | 48.0 | 15360 | F48T12/SP35/HO | 24 | 12000 | | 4250 | 3830 | 3500 | 73 | | | | | | 101 | |
| | | 60 | 48.0 | 15361 | F48T12/SP41/HO | 24 | 12000 | | 4250 | 3830 | 4100 | 72 | | | | | | 101 | |
| | | 60 | 48.0 | 15115 | F48T12/SPX35/HO | 24 | 12000 | | 4350 | 3920 | 3500 | 82 | ☺ | | | | | 101 | |
| | | 60 | 48.0 | 10773 | F48T12/CW/HO | 24 | 12000 | | 3825 | 3320 | 4100 | 60 | | | | | | 101 | |
| | | 60 | 48.0 | 27313 | F48T12/CW/HO/UPC | 24 | 12000 | | 4050 | 3520 | 4100 | 60 | | | | | | 101 | |
| | | 60 | 48.0 | 10778 | F48T12/D/HO | 24 | 12000 | | 3400 | 2960 | 6500 | 75 | | | | | | 101 | Daylight |
| | | 60 | 48.0 | 10573 | F48T12/SGN/HO | 24 | 12000 | | 3100 | 2640 | 5400 | 80 | ☺ | | | | | 101 | Sign White |
| | | 4' High Output Watt-Miser® Energy Saving Lamps | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 55 | 48.0 | 15342 | F48T12/SP35/HO/WM | 24 | 12000 | | 3850 | 3465 | 3500 | 73 | | \$ | ↗ | 1 | 101 | | |
| | | 55 | 48.0 | 11179 | F48T12/LW/HO/WM | 24 | 12000 | | 3900 | 3390 | 4200 | 49 | | \$ | ↗ | 1 | 101 | Lite White | |
| 5' High Output | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 75 | 60.0 | 23075 | F60T12/CW/HO 15PK | 15 | 12000 | | 5150 | 4480 | 4100 | 60 | | | | | | 101 | |
| | | 75 | 60.0 | 23077 | F60T12/D/HO 15PK | 15 | 12000 | | 4400 | 3830 | 6500 | 75 | | | | | | 101 | Daylight |
| | | 75 | 60.0 | 23081 | F60T12/SGN/HO 15PK | 15 | 12000 | | 4000 | 3400 | 5400 | 82 | ☺ | | | | | 101 | Sign White |
| 64" High Output | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 80 | 64.0 | 23083 | F64T12/CW/HO 15PK | 15 | 12000 | | 5600 | 4870 | 4100 | 60 | | | | | | 101 | |
| | | 80 | 64.0 | 23087 | F64T12/D/HO 15PK | 15 | 12000 | | 4750 | 4130 | 6500 | 75 | | | | | | 101 | Daylight |
| | | 80 | 64.0 | 23089 | F64T12/SGN/HO 15PK | 15 | 12000 | | 4300 | 3660 | 5400 | 82 | ☺ | | | | | 101 | Sign White |

Fluorescent Lamps

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information |
|--|--------------------------------|-------|---------------------|------------|------------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|------------|-----------------------------|-------------------------|
| T12 Lamps (continued) | | | | | | | | | | | | | | | | | | |
| T12 High Output (800mA) Rapid Start Recessed Double Contact (continued) | | | | | | | | | | | | | | | | | | |
| 6' High Output | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 85 | 72.0 | 15343 | F72T12/SP30/HO 15PK | 15 | 12000 | | 6650 | 5990 | 3000 | 70 | | | | | 101 | |
| | | 85 | 72.0 | 15347 | F72T12/SP35/HO 15PK | 15 | 12000 | | 6650 | 5990 | 3500 | 73 | | | | | 101 | |
| | | 85 | 72.0 | 15348 | F72T12/SP41/HO 15PK | 15 | 12000 | | 6650 | 5990 | 4100 | 72 | | | | | 101 | |
| | | 85 | 72.0 | 15137 | F72T12/SPX30/HO 15PK | 15 | 12000 | | 6800 | 6120 | 3000 | 82 | ☺ | | | | 101 | |
| | | 85 | 72.0 | 15351 | F72T12/SPX35/HO 15PK | 15 | 12000 | | 6800 | 6120 | 3500 | 82 | ☺ | | | | 101 | |
| | | 85 | 72.0 | 13697 | F72T12/CW/HO 15PK | 15 | 12000 | | 6350 | 5520 | 4100 | 60 | | | | | 101 | |
| | | 85 | 72.0 | 13699 | F72T12/D/HO 15PK | 15 | 12000 | | 5350 | 4650 | 6500 | 75 | | | | | 101 | Daylight |
| | | 85 | 72.0 | 12527 | F72T12/N/HO | 10 | 12000 | | 4300 | 3610 | 3700 | 90 | ☺ | | | | 101 | Natural |
| | | 85 | 72.0 | 13701 | F72T12/SGN/HO 15PK | 15 | 12000 | | 4900 | 4170 | 5400 | 82 | ☺ | | | | 101 | Sign White |
| 85 | 72.0 | 13702 | F72T12/WW/HO 15PK | 15 | 12000 | | 6550 | 5700 | 3000 | 52 | | | | | 101 | Warm White | | |
| 7' High Output | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 100 | 84.0 | 13766 | F84T12/CW/HO 15PK | 15 | 12000 | | 7700 | 6700 | 4100 | 60 | | | | | 101 | |
| | | 100 | 84.0 | 13767 | F84T12/D/HO 15PK | 15 | 12000 | | 6500 | 5660 | 6500 | 75 | | | | | 101 | Daylight |
| | | 100 | 84.0 | 13768 | F84T12/SGN/HO 15PK | 15 | 12000 | | 6000 | 5100 | 5400 | 82 | ☺ | | | | 101 | Sign White |
| 8' High Output | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 110 | 96.0 | 13707 | F96T12/C50/HO 15PK | 15 | 12000 | | 6750 | 5670 | 5000 | 90 | ☺ | | | | 101 | Chroma 50 |
| | | 110 | 96.0 | 14653 | F96T12/DX/HO | 15 | 12000 | | 6100 | 5185 | 6500 | 90 | ☺ | | | | 101 | Daylight Deluxe |
| 8' High Output Watt-Miser® Energy Saving Lamps | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 95 | 96.0 | 66861 | F96T12/HL30/HO/WM | 15 | 12000 | | 8850 | 7920 | 3000 | 77 | ☺ | \$ | ↔ | 1 | 101 | |
| | | 95 | 96.0 | 66862 | F96T12/HL41/HO/WM | 15 | 12000 | | 8850 | 7920 | 4100 | 77 | ☺ | \$ | ↔ | 1 | 101 | |
| | | 95 | 96.0 | 66853 | F96T12/HL41/HO/WM/UPC | 15 | 12000 | | 8850 | 7920 | 4100 | 77 | ☺ | \$ | ↔ | 1 | 101 | |
| T12 Very High Output (1500mA) Recessed Double Contact | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 110 | 48.0 | 10751 | F48T12/CW/1500 | 24 | 10000 | | 6200 | 4030 | 4100 | 60 | | | | | 4 | 101 |
| | | 165 | 72.0 | 13760 | F72T12/CW/1500 15PK | 15 | 10000 | | 9000 | 6300 | 4100 | 60 | | | | | 4 | 101 |
| | | 185 | 96.0 | 13789 | F96T12/CW/1500/WM 15PK | 15 | 9000 | | 12500 | 9380 | 4100 | 60 | | \$ | ↔ | 4 | 101 | |
| | | 215 | 96.0 | 13781 | F96T12/CW/1500 15PK | 15 | 10000 | | 13500 | 10125 | 4100 | 60 | | | | | 4 | 101 |
| | | 215 | 96.0 | 13783 | F96T12/D/1500 15PK | 15 | 10000 | | 11500 | 8630 | 6500 | 74 | | | | | 4 | 101 |
| T12 Preheat | | | | | | | | | | | | | | | | | | |
| 15" | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 14 | 15.0 | 10116 | F14T12/CW | 24 | 9000 | | 650 | 550 | 4100 | 60 | | | | | 101 | Preheat |
| | | 14 | 15.0 | 10117 | F14T12/CW 6PK | 24 | 9000 | | 650 | 550 | 4100 | 60 | | | | | 101 | Preheat |
| | | 14 | 15.0 | 22979 | F14T12/KB 6PK | 24 | 9000 | | 700 | 650 | 3000 | 70 | | | | | 104 | Preheat, Kitchen & Bath |
| 18" | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 15 | 18.0 | 10183 | F15T12/CW 6PK | 24 | 9000 | | 760 | 685 | 4100 | 60 | | | | | 101 | Preheat |
| | | 15 | 18.0 | 22745 | F15T12/KB 6PK | 24 | 9000 | | 785 | 730 | 3000 | 70 | | | | 104 | Preheat, Kitchen & Bath | |
| | | 15 | 18.0 | 10185 | F15T12/WW | 24 | 9000 | | 780 | 700 | 3000 | 52 | | | | | 101 | Preheat |
| 24" | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 20 | 24.0 | 80048 | F20T12/SP35/ECO | 24 | 9000 | | 1275 | 1200 | 3500 | 73 | | | | | 101 | Preheat |
| | | 20 | 24.0 | 15353 | F20T12/SP41 | 24 | 9000 | | 1275 | 1200 | 4100 | 72 | | | | | 101 | Preheat |
| | | 20 | 24.0 | 80049 | F20T12/SPX35/ECO | 24 | 9000 | | 1300 | 1220 | 3500 | 82 | ☺ | | | | 101 | Preheat |
| | | 20 | 24.0 | 80044 | F20T12/C50/ECO | 24 | 9000 | | 875 | 790 | 5000 | 90 | ☺ | | | | 101 | Preheat |
| | | 20 | 24.0 | 80045 | F20T12/CW/ECO | 24 | 9000 | | 1200 | 1150 | 4100 | 60 | | | | | 101 | Preheat |
| | | 20 | 24.0 | 80046 | F20T12/CW/ECO 6PK | 24 | 9000 | | 1200 | 1150 | 4100 | 60 | | | | | 101 | Preheat |
| | | 20 | 24.0 | 80047 | F20T12/D/ECO | 24 | 9000 | | 1025 | 945 | 6500 | 75 | | | | | 101 | Preheat |
| | | 20 | 24.0 | 25575 | F20T12/D/ECO/UPC | 24 | 9000 | | 1025 | 945 | 6500 | 75 | | | | | 101 | Preheat, Daylight |
| | | 20 | 24.0 | 21325 | F20T12/KB/ECO | 24 | 9000 | | 1275 | 1200 | 3000 | 70 | | | | | 104 | Preheat, Kitchen & Bath |
| | | 20 | 24.0 | 14419 | F20T12/SUN/ECO | 24 | 9000 | | 875 | 790 | 5000 | 90 | ☺ | | | | 101 | Preheat, Sunlight |
| | | 20 | 24.0 | 80050 | F20T12/WW/ECO | 24 | 9000 | | 1250 | 1150 | 3000 | 52 | | | | | 101 | Preheat, Warm White |
| | | 20 | 24.0 | 25577 | F20T12/WW/ECO/UPC | 24 | 9000 | | 1250 | 1150 | 3000 | 52 | | | | | 101 | Preheat, Warm White |
| Other Diameters | | | | | | | | | | | | | | | | | | |
| T6 Instant Start | | | | | | | | | | | | | | | | | | |
| T6 | Single Pin (Fa8) | 25 | 42.0 | 12221 | F42T6/SP35 | 24 | 7500 | | 1830 | 1700 | 3500 | 73 | | | | | 101 | |
| | | 25 | 42.0 | 10720 | F42T6/CW | 24 | 7500 | | 1750 | 1580 | 4100 | 60 | | | | | 101 | |
| | | 25 | 42.0 | 10721 | F42T6/WW | 24 | 7500 | | 1825 | 1640 | 3000 | 52 | | | | | 101 | Warm White |
| | | 40 | 64.0 | 10805 | F64T6/CW | 24 | 7500 | | 2800 | 2520 | 4100 | 60 | | | | | 101 | |
| | | 40 | 64.0 | 10807 | F64T6/WW | 24 | 7500 | | 2900 | 2610 | 3000 | 52 | | | | | 101 | Warm White |

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information | | | |
|--|--------------------------------|-----------------------------------|---------------------|------------|----------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|------------------------------------|-----------|----------------|----------------|
| Other Diameters (continued) | | | | | | | | | | | | | | | | | | | | | |
| T17 Instant Start | | | | | | | | | | | | | | | | | | | | | |
| T17 | Mogul Bi-Pin (G20) | 40 | 60.0 | 10575 | F40T17/CW/IS | 12 | 7500 | | 2850 | 2620 | 4100 | 60 | | | ↔ | 3 | 101 | Use only w/ Instant Start Ballasts | | | |
| Pg17 T17 Preheat | | | | | | | | | | | | | | | | | | | | | |
| T17 | Mogul Bi-Pin (G20) | 82 | 60.0 | 43443 | F90T17/CW/WM | 12 | 9000 | | 5750 | 5060 | 4100 | 60 | | \$ | ↔ | 4 | 101 | | | | |
| | | 90 | 60.0 | 10643 | F90T17/CW | 12 | 9000 | | 6000 | 5280 | 4100 | 60 | | | ↔ | 4 | 101 | | | | |
| Power Groove Recessed Double Contact (1500mA) | | | | | | | | | | | | | | | | | | | | | |
| PG17 | Recessed Double Contact (R17d) | 185 | 96.0 | 42666 | F96PG17/CW/WM | 8 | 12000 | | 12700 | 9900 | 4100 | 60 | | \$ | ↔ | 4 | 101 | | | | |
| | | 215 | 96.0 | 11009 | F96PG17/CW | 8 | 10000 | | 14000 | 10915 | 4100 | 60 | | | ↔ | 4 | 101 | | | | |
| | | 215 | 96.0 | 11018 | F96PG17/D | 8 | 10000 | | 12100 | 9440 | 6500 | 74 | | | | | 4 | 101 | Daylight | | |
| T9 Circline® Lamps | | | | | | | | | | | | | | | | | | | | | |
| T9 | 4-Pin (G10q) | 20 | 6.5 | 42732 | FC6T9/CW | 12 | 12000 | | 800 | 560 | 4100 | 60 | | | | | | 101 | | | |
| | | 22 | 8.25 | 33774 | FC8T9/CW | 12 | 12000 | | 1100 | 825 | 4100 | 60 | | | | | | | 101 | | |
| | | 22 | 8.25 | 11026 | FC8T9/D | 12 | 12000 | | 925 | 690 | 6500 | 75 | | | | | | | 101 | Daylight | |
| | | 22 | 8.25 | 11084 | FC8T9/KB | 6 | 12000 | | 1400 | 1120 | 3000 | 82 | ☺ | | | | | | 104 | Kitchen & Bath | |
| | | 32 | 12.0 | 33890 | FC12T9/CW | 12 | 12000 | | 1950 | 1460 | 4100 | 60 | | | | | | | | 101 | |
| | | 32 | 12.0 | 11039 | FC12T9/D | 12 | 12000 | | 1675 | 1260 | 6500 | 75 | | | | | | | | 101 | Daylight |
| | | 32 | 12.0 | 11085 | FC12T9/KB | 6 | 12000 | | 2400 | 1920 | 3000 | 82 | ☺ | | | | | | | 104 | Kitchen & Bath |
| | | 40 | 16.0 | 33893 | FC16T9/CW | 12 | 12000 | | 2700 | 2030 | 4100 | 60 | | | | | | | | 101 | |
| | | 40 | 16.0 | 11052 | FC16T9/D | 12 | 12000 | | 2250 | 1690 | 6500 | 75 | | | | | | | | 101 | Daylight |
| | | Special Application Lamps | | | | | | | | | | | | | | | | | | | |
| covGuard® Shatter Resistant | | | | | | | | | | | | | | | | | | | | | |
| T5 High Efficiency | | | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 14 | 21.6 | 73194 | F14W/T5/830/ECO/CVG | 40 | 30000 | 36000 | 1310 | 1200 | 3000 | 85 | ☺ | | | | 11,13 | 103 | Blocks UV | | |
| | | 14 | 21.6 | 73195 | F14W/T5/835/ECO/CVG | 40 | 30000 | 36000 | 1310 | 1200 | 3500 | 85 | ☺ | | | | | 11,13 | 103 | Blocks UV | |
| | | 28 | 45.2 | 81546 | F28W/T5/830/ECO/CVG | 40 | 30000 | 36000 | 2813 | 2672 | 3000 | 85 | ☺ | | | | | 11,13 | 103 | Blocks UV | |
| | | 28 | 45.2 | 81547 | F28W/T5/835/ECO/CVG | 40 | 30000 | 36000 | 2813 | 2672 | 3500 | 85 | ☺ | | | | | | 11,13 | 103 | Blocks UV |
| | | 28 | 45.2 | 81548 | F28W/T5/841/ECO/CVG | 40 | 30000 | 36000 | 2813 | 2672 | 4100 | 85 | ☺ | | | | | | 11,13 | 103 | Blocks UV |
| | | 28 | 45.2 | 81549 | F28W/T5/850/ECO/CVG | 40 | 30000 | 36000 | 2667 | 2534 | 5000 | 85 | ☺ | | | | | | 11,13 | 103 | Blocks UV |
| | | 28 | 45.2 | 81550 | F28W/T5/865/ECO/CVG | 40 | 30000 | 36000 | 2319 | 2488 | 6500 | 85 | ☺ | | | | | | 11,13 | 103 | Blocks UV |
| | | T5 High Output | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 24 | 21.6 | 71000 | F24W/T5/830/ECO/CVG | 40 | 30000 | 36000 | 1950 | 1853 | 3000 | 85 | ☺ | | | | | 11 | 103 | | |
| | | 24 | 21.6 | 70998 | F24W/T5/835/ECO/CVG | 40 | 30000 | 36000 | 1950 | 1853 | 3500 | 85 | ☺ | | | | | | 11 | 103 | |
| | | 24 | 21.6 | 70997 | F24W/T5/841/ECO/CVG | 40 | 30000 | 36000 | 1950 | 1853 | 4100 | 85 | ☺ | | | | | | 11 | 103 | |
| | | 24 | 21.6 | 70999 | F24W/T5/850/ECO/CVG | 40 | 30000 | 36000 | 1850 | 1758 | 5000 | 85 | ☺ | | | | | | 11 | 103 | |
| | | 39 | 33.4 | 70995 | F39W/T5/830/ECO/CVG | 40 | 30000 | 36000 | 3400 | 3230 | 3000 | 85 | ☺ | | | | | | 11 | 103 | |
| | | 39 | 33.4 | 70994 | F39W/T5/835/ECO/CVG | 40 | 30000 | 36000 | 3400 | 3230 | 3500 | 85 | ☺ | | | | | | 11 | 103 | |
| | | 39 | 33.4 | 70993 | F39W/T5/841/ECO/CVG | 40 | 30000 | 36000 | 3400 | 3230 | 4100 | 85 | ☺ | | | | | | 11 | 103 | |
| | | 39 | 33.4 | 70990 | F39W/T5/865/ECO/CVG | 40 | 30000 | 36000 | 3200 | 3040 | 6500 | 85 | ☺ | | | | | | 11 | 103 | |
| | | 54 | 45.2 | 48433 | F54T5/830/HO/ECO/CVG | 40 | 30000 | 36000 | 4850 | 4560 | 3000 | 85 | ☺ | | | | | | 11 | 103 | |
| | | 54 | 45.2 | 48436 | F54T5/835/HO/ECO/CVG | 40 | 30000 | 36000 | 4850 | 4560 | 3500 | 85 | ☺ | | | | | | 11 | 103 | |
| | | 54 | 45.2 | 48458 | F54T5/841/HO/ECO/CVG | 40 | 30000 | 36000 | 4850 | 4560 | 4100 | 85 | ☺ | | | | | | 11 | 103 | |
| | | 54 | 45.2 | 80311 | F54T5/850/HO/ECO/CVG | 40 | 30000 | 36000 | 4650 | 4370 | 5000 | 85 | ☺ | | | | | | 11 | 103 | |
| | | 54 | 45.2 | 48469 | F54T5/865/HO/ECO/CVG | 40 | 30000 | 36000 | 4650 | 4320 | 6500 | 85 | ☺ | | | | | | 11 | 103 | |
| | | T5 High Output Watt-Miser® | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 51 | 45.2 | 72986 | F54T5/835/WM/ECO/CVG | 40 | 30000 | 36000 | 4850 | 4560 | 3500 | 85 | ☺ | \$ | ↔ | | 11 | 103 | | | |
| | | 51 | 45.2 | 72987 | F54T5/841/WM/ECO/CVG | 40 | 30000 | 36000 | 4850 | 4560 | 4100 | 85 | ☺ | \$ | ↔ | | 11 | 103 | | | |
| | | 51 | 45.2 | 72988 | F54T5/850/WM/ECO/CVG | 40 | 30000 | 36000 | 4650 | 4370 | 5000 | 85 | ☺ | \$ | ↔ | | 11 | 103 | | | |
| | | 47 | 45.0 | 65106 | F54T5/47W/841CVG | 40 | 30000 | 36000 | 4728 | 4343 | 4100 | 85 | ☺ | \$ | ↔ | | 11 | 103 | | | |
| | | 47 | 45.0 | 65107 | F54T5/47W/850CVG | 40 | 30000 | 36000 | 4531 | 4167 | 5000 | 85 | ☺ | \$ | ↔ | | 11 | 103 | | | |
| T5 Preheat Lamps | | | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 8 | 12.0 | 41107 | F8T5/CW/CVG | 24 | 5000 | | 385 | 310 | 4100 | 60 | | | | | 11,13 | 103 | Blocks UV | | |
| | | 13 | 21.0 | 41108 | F13T5/CW/CVG | 24 | 5000 | | 820 | 684 | 4100 | 60 | | | | | | 11,13 | 103 | Blocks UV | |

Fluorescent Lamps

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information |
|---|---------------------|-------|---------------------|------------|-----------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|------------|-----------------------------|-------------------------|
| Special Application Lamps (continued) | | | | | | | | | | | | | | | | | | |
| T8 Ecolux® w/ Starcoat® | | | | | | | | | | | | | | | | | | |
| 2' T8 Ecolux® w/ Starcoat® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 17 | 24.0 | 15974 | F17T8SP35ECCOCVG | 24 | 30000 | 36000 | 1280 | 1220 | 3500 | 78 | | | | 11,13,18 | 103 | Blocks UV |
| | | 17 | 24.0 | 15977 | F17T8SP41ECCOCVG | 24 | 30000 | 36000 | 1280 | 1220 | 4100 | 78 | | | | 11,13,18 | 103 | Blocks UV |
| | | 17 | 24.0 | 15975 | F17T8SPX35ECCOCVG | 24 | 30000 | 36000 | 1310 | 1242 | 3500 | 85 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| | | 17 | 24.0 | 15976 | F17T8SPX41ECCOCVG | 24 | 30000 | 36000 | 1310 | 1242 | 4100 | 85 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| | | 17 | 24.0 | 28885 | F17T8LSPX50ECCOCVG | 24 | 40000 | 45000 | 1310 | 1243 | 5000 | 82 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| 3' Ecolux® w/Starcoat® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 25 | 36.0 | 15978 | F25T8SP30ECCOCVG | 24 | 30000 | 36000 | 2020 | 1920 | 3000 | 78 | | | | 11,13,18 | 103 | Blocks UV |
| | | 25 | 36.0 | 15981 | F25T8SP35ECCOCVG | 24 | 30000 | 36000 | 2020 | 1920 | 3500 | 78 | | | | 11,13,18 | 103 | Blocks UV |
| | | 25 | 36.0 | 15984 | F25T8SP41ECCOCVG | 24 | 30000 | 36000 | 2020 | 1920 | 4100 | 78 | | | | 11,13,18 | 103 | Blocks UV |
| | | 25 | 36.0 | 15989 | F25T8SP30ECCOCVG | 24 | 30000 | 36000 | 2080 | 1970 | 3000 | 85 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| | | 25 | 36.0 | 15990 | F25T8SP35ECCOCVG | 24 | 30000 | 36000 | 2080 | 1970 | 3500 | 85 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| | | 25 | 36.0 | 15991 | F25T8SPX41ECCOCVG | 24 | 30000 | 36000 | 2080 | 1970 | 4100 | 85 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| | | 25 | 36.0 | 28887 | F25T8LSPX50ECCOCVG | 24 | 40000 | 45000 | 1990 | 1890 | 5000 | 82 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| 4' T8 (48") Ecolux® w/Starcoat® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 48.0 | 94838 | F32T8SP30ECCOCVG | 36 | 30000 | 36000 | 2800 | 2640 | 3000 | 80 | | | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 94839 | F32T8SP35ECCOCVG | 36 | 30000 | 36000 | 2800 | 2640 | 3500 | 80 | | | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 94861 | F32T8SP41ECCOCVG | 36 | 30000 | 36000 | 2800 | 2640 | 4100 | 80 | | | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 94842 | F32T8SP50ECCOCV | 36 | 30000 | 36000 | 2800 | 2640 | 5000 | 80 | | | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 94843 | F32T8SPX65ECCOCV | 36 | 30000 | 36000 | 2800 | 2670 | 6500 | 78 | | | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 41125 | F32T8SP30ECCOCVG | 36 | 30000 | 36000 | 2860 | 2715 | 3000 | 85 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 41126 | F32T8SP35ECCOCVG | 36 | 30000 | 36000 | 2860 | 2715 | 3500 | 85 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 41127 | F32T8SPX41ECCOCVG | 36 | 30000 | 36000 | 2860 | 2715 | 4100 | 85 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 15971 | F32T8SPX50ECCOCVG | 36 | 30000 | 36000 | 2715 | 2580 | 5000 | 82 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| 4' T8 Ecolux® XL Extra-life w/Starcoat® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 48.0 | 15972 | F32T8LSPX30ECCOCVG | 36 | 40000 | 45000 | 2860 | 2715 | 3000 | 85 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 15973 | F32T8LSPX35ECCOCVG | 36 | 40000 | 45000 | 2860 | 2715 | 3500 | 85 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 18369 | F32T8LSPX41ECCOCVG | 36 | 40000 | 45000 | 2860 | 2715 | 4100 | 85 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 23746 | F32T8LSPX50ECCOCVG | 36 | 40000 | 45000 | 2715 | 2580 | 5000 | 82 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| Ultra Energy Saving T8 Lamps w/ covRguard® | | | | | | | | | | | | | | | | | | |
| 4' T8 Ecolux® 25 Watt Lamp | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 25 | 48.0 | 72814 | F32T8/25WSPX41ECCOCVG | 36 | 40000 | 46000 | 2425 | 2350 | 4100 | 82 | ☺ | \$ | ↗ | 1,11,13,18 | 103 | Blocks UV |
| | | 25 | 48.0 | 72815 | F32T8/25WSPX50ECCOCVG | 36 | 40000 | 46000 | 2425 | 2350 | 5000 | 80 | ☺ | \$ | ↗ | 1,11,13,18 | 103 | Blocks UV |
| 4' T8 Ecolux® UltraMax® 28 Watt Lamp | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 28 | 48.0 | 73292 | F28T8/XLSPX30ECCOCV | 36 | 40000 | 46000 | 2595 | 2440 | 3000 | 85 | ☺ | \$ | ↗ | 1,11,13,18 | 103 | Blocks UV, CEE Approved |
| | | 28 | 48.0 | 73293 | F28T8/XLSPX35ECCOCV | 36 | 40000 | 46000 | 2595 | 2440 | 3500 | 85 | ☺ | \$ | ↗ | | 103 | Blocks UV, CEE Approved |
| | | 28 | 48.0 | 73294 | F28T8/XLSPX41ECCOCV | 36 | 40000 | 46000 | 2595 | 2440 | 4100 | 82 | ☺ | \$ | ↗ | | 103 | Blocks UV, CEE Approved |
| | | 28 | 48.0 | 73295 | F28T8/XLSPX50ECCOCV | 36 | 40000 | 46000 | 2595 | 2440 | 5000 | 80 | ☺ | \$ | ↗ | | 103 | Blocks UV |
| 4' T8 Ecolux® High Lumen XL Extra-Life w/Starcoat® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 48.0 | 00268 | F32T8XLSPX35HCVG | 36 | 40000 | 45000 | 3007 | 2827 | 3500 | 85 | ☺ | \$ | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 00269 | F32T8XLSPX41HCVG | 36 | 40000 | 45000 | 3007 | 2827 | 4100 | 82 | ☺ | \$ | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 80497 | F32T8XLSPX50HCVG | 36 | 40000 | 45000 | 2910 | 2735 | 5000 | 80 | ☺ | \$ | | 11,13,18 | 103 | Blocks UV |
| 5' T8 w/Starcoat® | | | | | | | | | | | | | | | | | | |
| 5' T8 (60") w/Starcoat® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 40 | 60.0 | 41131 | F40T8/SPX35/CVG | 24 | 20000 | | 3610 | 3250 | 3500 | 84 | ☺ | | | 11,13 | 103 | Blocks UV |
| | | 40 | 60.0 | 47351 | F40T8/SPX41/CVG | 24 | 20000 | | 3610 | 3250 | 4100 | 84 | ☺ | | | 11,13 | 103 | Blocks UV |
| T8 Instant Start w/Starcoat® | | | | | | | | | | | | | | | | | | |
| 8' T8 (96") Instant Start w/Starcoat® | | | | | | | | | | | | | | | | | | |
| T8 | Single Pin (Fa8) | 59 | 96.0 | 94856 | F96T8XL/SPX30/CVG | 24 | 24000 | 30000 | 5750 | 5480 | 3000 | 85 | | | | 11,13 | 103 | Blocks UV |
| | | 59 | 96.0 | 94859 | F96T8XL/SPX35/CVG | 24 | 24000 | 30000 | 5600 | 5060 | 3500 | 80 | | | | 11,13 | 103 | Blocks UV |
| | | 59 | 96.0 | 94860 | F96T8XL/SPX41/CVG | 24 | 24000 | 30000 | 5600 | 5060 | 4100 | 80 | | | | 11,13 | 103 | Blocks UV |
| | | 59 | 96.0 | 40099 | F96T8XL/SPX30CVG | 24 | 24000 | 30000 | 5770 | 5480 | 3000 | 85 | ☺ | | | 11,13 | 103 | Blocks UV |
| | | 59 | 96.0 | 40105 | F96T8XL/SPX35/CVG | 24 | 24000 | 30000 | 5770 | 5480 | 3500 | 85 | ☺ | | | 11,13 | 103 | Blocks UV |
| | | 59 | 96.0 | 40106 | F96T8XL/SPX41/CVG | 24 | 24000 | 30000 | 5770 | 5480 | 4100 | 85 | ☺ | | | 11,13 | 103 | Blocks UV |
| | | 59 | 96.0 | 48205 | F96T8XL/SPX50/CVG | 24 | 24000 | 30000 | 5770 | 5480 | 5000 | 82 | ☺ | | | 11,13 | 103 | Blocks UV |

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information | |
|--|--------------------------------|-------|---------------------|------------|-------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|------------|-----------------------------|------------------------|--|
| Special Application Lamps (continued) | | | | | | | | | | | | | | | | | | | |
| 8' T8 High Output Lamps Recessed Double Contact w/Starcoat® | | | | | | | | | | | | | | | | | | | |
| T8 | Recessed Double Contact (R17d) | 86 | 96.0 | 40107 | F96T8/SP35HO/CVG | 24 | 18000 | | 7760 | 7370 | 3500 | 78 | | | | 11,12,13 | 103 | Blocks UV | |
| | | 86 | 96.0 | 40108 | F96T8/SP41HO/CVG | 24 | 18000 | | 7760 | 7370 | 4100 | 78 | | | | 11,12,13 | 103 | Blocks UV | |
| | | 86 | 96.0 | 81563 | F96T8/SPX50HO/CVG | 24 | 18000 | | 7954 | 7566 | 5000 | 82 | ☺ | | | 11,12,13 | 103 | Blocks UV | |
| T8 Preheat Lamps | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 13 | 12.0 | 41109 | F13T8/CW/CVG | 24 | 7500 | | 545 | 465 | 4100 | 60 | | | | 11,13 | 103 | Blocks UV | |
| | | 15 | 18.0 | 41110 | F15T8/CW/CVG | 24 | 7500 | | 800 | 700 | 4100 | 60 | | | | 11,13 | 103 | Blocks UV | |
| | | 15 | 18.0 | 46627 | F15T8/KB/CVG/UPC | 24 | 7500 | | 910 | 825 | 3000 | 70 | | | | 11,13 | 103 | Blocks UV | |
| | | 15 | 18.0 | 46216 | F15T8/SP35/CVG | 24 | 7500 | | 910 | 825 | 3500 | 75 | | | | 11,13 | 103 | Blocks UV | |
| | | 15 | 18.0 | 41111 | F15T8/SPX35/CVG | 24 | 7500 | | 970 | 870 | 3500 | 82 | ☺ | | | 11,13 | 103 | Blocks UV | |
| T12 Rapid Start Lamps | | | | | | | | | | | | | | | | | | | |
| 3' Ecolux® T12 (36") | | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 30 | 36.0 | 80486 | F30T12CWRECO/CVG | 24 | 18000 | | 2130 | 1850 | 4100 | 60 | | | | 11,13 | 103 | Blocks UV | |
| 4' T12 Ecolux® Rapid Start Watt-Miser® Lamps (48") | | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 40 | 48.0 | 80994 | F40DX/ECO/CVG | 30 | 20000 | | 1988 | 1687 | 6500 | 90 | ☺ | | | 11,13 | 103 | Daylight Deluxe | |
| | | 40 | 48.0 | 80496 | F40/CSO/ECO/CVG | 30 | 20000 | | 2180 | 1810 | 5000 | 90 | ☺ | | | 11,13 | 103 | Chroma 50 | |
| T12 Instant Start | | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 40 | 48.0 | 40127 | F48T12/CW/CVG | 24 | 9000 | | 2780 | 2560 | 4100 | 60 | | | | 11,13 | 103 | | |
| | | 40 | 48.0 | 41144 | F48T12/SPX35/CVG | 24 | 9000 | | 2950 | 2780 | 3500 | 82 | ☺ | | | 11,13 | 103 | | |
| | | 50 | 60.0 | 41147 | F60T12CW/CVG | 15 | 12000 | | 3490 | 3210 | 4100 | 60 | | | | 11,13 | 103 | | |
| | | 55 | 72.0 | 41153 | F72T12/SPX35/CVG | 15 | 12000 | | 4650 | 4370 | 3500 | 82 | ☺ | | | 11,13 | 103 | | |
| T12 Instant Start - Watt-Miser® Energy Saving Lamps | | | | | | | | | | | | | | | | | | | |
| 8' T12 Rapid Start Watt-Miser® Lamps (96") | | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 60 | 96.0 | 26038 | F96T12XLHL41WMCV | 15 | 12000 | | 5723 | 5315 | 4100 | 80 | ☺ | \$ | ↖ | 1,11,14 | 103 | | |
| T12 Preheat | | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 15 | 18.0 | 41114 | F15T12/CW/CVG | 24 | 9000 | | 735 | 660 | 4100 | 60 | | | | 11,13 | 103 | Preheat | |
| T12 High Output Lamps Recessed Double Contact | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 60 | 48.0 | 40129 | F48T12/CW/HO/CVG | 24 | 12000 | | 3930 | 3410 | 4100 | 60 | | | | 11,12,13 | 103 | | |
| | | 75 | 60.0 | 41148 | F60T12/CW/HO/CVG | 15 | 12000 | | 4990 | 4340 | 4100 | 60 | | | | 11,12,13 | 103 | | |
| | | 85 | 72.0 | 40811 | F72T12CW/HO/CVG | 15 | 12000 | | 6150 | 5350 | 4100 | 60 | | | | 11,12,13 | 103 | | |
| | | 85 | 72.0 | 46207 | F72T12SP35HO/CVG | 15 | 12000 | | 6450 | 5810 | 3500 | 73 | | | | 11,12,13 | 103 | | |
| | | 85 | 72.0 | 41152 | F72T12SPX30HOCVG | 15 | 12000 | | 6590 | 5930 | 3000 | 82 | ☺ | | | 11,12,13 | 103 | | |
| | | 85 | 72.0 | 41154 | F72T12SPX35HOCVG | 15 | 12000 | | 6590 | 5930 | 3500 | 82 | ☺ | | | 11,12,13 | 103 | | |
| | | 110 | 96.0 | 46430 | F96T12/DX/HO/CVG | 15 | 12000 | | 5917 | 5029 | 6500 | 90 | ☺ | | | 11,12,13 | 103 | Daylight Deluxe | |
| T12 High Output Lamps Recessed Double Contact - Watt-Miser® Energy Saving Lamps | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 95 | 96.0 | 26039 | F96T12HL41HOWMCV | 15 | 12000 | | 8580 | 7680 | 4100 | 77 | ☺ | \$ | ↖ | 1,11,12,13 | 103 | | |
| Germicidal covRguard® | | | | | | | | | | | | | | | | | | | |
| T8 | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 15 | 18.0 | 72761 | G15T8/CVG | 24 | 7500 | | | | | | | | | 9 | 106 | | |
| Cold Temperature Lamps | | | | | | | | | | | | | | | | | | | |
| T5 | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 54 | 45.2 | 81522 | F54T5/841/CT | 36 | 30000 | 36000 | 4500 | 4275 | 4100 | 85 | ☺ | | | 11,13,17 | 101 | Plastic Jacket | |
| T8 | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 58 | 60.0 | 16148 | F58T8/835/CT | 24 | 20000 | | 4680 | 4450 | 3500 | 85 | ☺ | | | 11,13,17 | 101 | Plastic Jacket | |
| | | 58 | 60.0 | 23752 | F58T8/841/CT | 24 | 20000 | | 4680 | 4450 | 4100 | 85 | ☺ | | | 11,13,17 | 101 | Plastic Jacket | |
| | | 70 | 72.0 | 16149 | F70T8/835/CT | 18 | 20000 | | 5670 | 5386 | 3500 | 85 | ☺ | | | 11,13,17 | 101 | Plastic Jacket | |
| | | 70 | 72.0 | 23754 | F70T8/841/CT | 18 | 20000 | | 5670 | 5386 | 4100 | 85 | ☺ | | | 11,13,17 | 101 | Plastic Jacket | |

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4. All footnotes, warning and caution notices found at the end of this section (page 4-26).

Fluorescent Lamps

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information | |
|--|--------------------------------|-------|---------------------|------------|------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|--|--|---|--|
| Cold Temperature Lamps (continued) | | | | | | | | | | | | | | | | | | | |
| High Output (800mA) Recessed Double Contact | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 85 | 72.0 | 46199 | F72T12/CW/HO-CT | 8 | 12000 | | 6150 | 5350 | 4100 | 60 | | | | 11,13,17 | 101 | Plastic Jacket | |
| | | 110 | 96.0 | 11918 | F96T12/CW/HO/CT | 15 | 12000 | | 8900 | 7740 | 4100 | 60 | | | | 11,13,17 | 101 | | |
| | | 110 | 96.0 | 11919 | F96T12/D/HO/CT | 15 | 12000 | | 7600 | 6610 | 6500 | 75 | | | | 11,13,17 | 101 | | |
| T10 Very High Output (1500mA) Recessed Double Contact | | | | | | | | | | | | | | | | | | | |
| T10 | Recessed Double Contact (R17d) | 110 | 48.0 | 10742 | F48T10/CW | 24 | 9000 | | 6200 | 10742 | 4100 | 60 | | | | 4 | 101 | | |
| | | 135 | 60.0 | 17135 | F60T10/SP30 | 24 | 6000 | | 8500 | | 3000 | 70 | | | | 4 | 101 | | |
| | | 135 | 60.0 | 39157 | F60T10/CW | 24 | 6000 | | 7000 | | 4100 | 60 | | | | 4 | 101 | | |
| | | 135 | 60.0 | 13002 | F60T10/CW 6PK | 6 | 6000 | | 7000 | | 4100 | 60 | | | | 4 | 101 | | |
| | | 135 | 60.0 | 46197 | F60T10/CW-CT | 12 | 6000 | | 6790 | | 4100 | 60 | | | | 4,13,17 | 101 | Plastic Jacket | |
| | | 160 | 72.0 | 13776 | F72T10/CW 15PK | 15 | 9000 | | 9700 | | 4100 | 60 | | | | 4 | 101 | | |
| | | 160 | 72.0 | 46198 | F72T10/CW-CT | 8 | 9000 | | 9400 | | 4100 | 60 | | | | 4,13,17 | 101 | Plastic Jacket | |
| T12 Very High Output (1500mA) Recessed Double Contact | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 110 | 48.0 | 34206 | F48T12/CW/1500/0 | 24 | 10000 | | 7000 | | 4100 | 60 | | | | 4 | 101 | | |
| | | 110 | 48.0 | 46195 | F48T12CW/VHO/CT | 12 | 10000 | | 6790 | | 4100 | 60 | | | 4,15,17 | 101 | Plastic Jacket | | |
| | | 170 | 72.0 | 13762 | F72T12CW1500/0 | 15 | 10000 | | 10800 | | 4100 | 60 | | | 4 | 101 | | | |
| | | 170 | 72.0 | 46200 | F72T12CW/VHO/CT | 8 | 10000 | | 10470 | | 4100 | 60 | | | 4,15,17 | 101 | Plastic Jacket | | |
| | | 220 | 96.0 | 13788 | F96T12/CW/1500/0 | 15 | 10000 | | 14400 | | 4100 | 60 | | | 4 | 101 | | | |
| | | 220 | 96.0 | 46202 | F96T12CW/VHO-CT | 8 | 10000 | | 13960 | | 4100 | 60 | | | 4,15,17 | 101 | | | |
| Appliance Lamps | | | | | | | | | | | | | | | | | | | |
| T8 | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 18 | 22.0 | 10257 | F22T8/D/4 | 24 | 7500 | | 925 | 790 | 6500 | 75 | | | | | 101 | Daylight | |
| | | 18 | 24.0 | 17705 | F24T8/CW/4 6PK | 24 | 7500 | | 1150 | 1040 | 4100 | 60 | | | | | 101 | | |
| | | 19 | 26.0 | 10702 | F26T8/CW/4 | 24 | 7500 | | 1275 | 1085 | 4100 | 60 | | | | | 101 | | |
| | | 19 | 26.0 | 38199 | F26T8/CW/4 6PK | 24 | 7500 | | 1275 | 1085 | 4100 | 60 | | | | | 101 | | |
| | | 19 | 28.0 | 17704 | F28T8/CW/4 6PK | 24 | 7500 | | 1350 | 1145 | 4100 | 60 | | | | | 101 | | |
| | | 19 | 30.0 | 10349 | F30T8/CW/4 | 24 | 7500 | | 1375 | 1170 | 4100 | 60 | | | | | 101 | | |
| T12 | | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 21 | 30.0 | 10355 | F30T12/CW | 24 | 7500 | | 1350 | 1220 | 4100 | 60 | | | | | 101 | | |
| | | 25 | 28.0 | 10282 | F25T12CW/28 6PK | 24 | 7500 | | 1550 | 1390 | 4100 | 60 | | | | | 101 | | |
| | | 25 | 28.0 | 10286 | F25T12/D/28 | 24 | 7500 | | 1450 | 1310 | 6500 | 75 | | | | | 101 | Daylight | |
| | | 25 | 33.0 | 38201 | F25T12/CW/33 6PK | 24 | 7500 | | 1860 | 1675 | 4100 | 60 | | | | | 101 | | |
| | | 25 | 33.0 | 10299 | F25T12/D/33 | 24 | 7500 | | 1600 | 1440 | 6500 | 75 | | | | | 101 | Daylight | |
| | | 25 | 33.0 | 10293 | F25T12/WW/33 | 24 | 7500 | | 1910 | 1720 | 3000 | 52 | | | | | 101 | Warm White | |
| Blacklight/Blacklight Blue Lamps | | | | | | | | | | | | | | | | | | | |
| Blacklight | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 15 | 18.0 | 35884 | F15T8/BL 6PK | 24 | 7500 | | | | | | | | | 8 | 105 | Blacklight, UVA Source | |
| | | 17 | 24.0 | 72759 | F17T8/BLB/6PK | 24 | 7000 | | | | | | | | | 8 | 105 | Blacklight Blue, UVA Source, Integral Dark Blue Filter | |
| T12 | Medium Bi-Pin (G13) | 20 | 24.0 | 10244 | F20T12/BL 6PK | 24 | 9000 | | | | | | | | | 8 | 105 | Blacklight, UVA Source | |
| | | 40 | 22.5 | 40537 | F40BL/U/3 | 12 | 14000 | | | | | | | | | 8 | 105 | Blacklight, UVA Source, Mod-U-Line®, 3-5/8 Spacing Between Legs | |
| | | 40 | 48.0 | 10526 | F40BL 6PK | 24 | 20000 | | | | | | | | 8 | 105 | Blacklight, UVA Source | | |
| Blacklight Blue | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 4 | 6.0 | 10019 | F4T5/BLB | 24 | 5000 | | | | | | | | | 8 | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter | |
| | | 8 | 12.0 | 10077 | F8T5/BLB | 24 | 5000 | | | | | | | | 8 | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter | | |
| T8 | Medium Bi-Pin (G13) | 15 | 18.0 | 35885 | F15T8/BLB 6PK | 24 | 7500 | | | | | | | | 8 | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter | | |
| T12 | Medium Bi-Pin (G13) | 20 | 24.0 | 34747 | F20T12/BLB 6PK | 24 | 9000 | | | | | | | | 8 | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter | | |
| | | 40 | 48.0 | 10531 | F40BLB 6PK | 24 | 20000 | | | | | | | 8 | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter | | | |

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information | |
|---|--------------------------------|-------|---------------------|------------|-------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|---|-------------------|
| Colored Lamps | | | | | | | | | | | | | | | | | | | |
| T8 | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 48.0 | 94847 | F32T8/B/65ECOCVG2 | 36 | 20000 | | | | | | | | | | 103 | Sleeved Rosco Blue 65 | |
| | | 32 | 48.0 | 94849 | F32T8/G/89ECOCVG2 | 36 | 20000 | | | | | | | | | | 103 | Sleeved Rosco Green 89 | |
| | | 32 | 48.0 | 94850 | F32T8/R/24ECOCVG2 | 36 | 20000 | | | | | | | | | | 103 | Sleeved Rosco Red 24 | |
| T12 | | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 40 | 48.0 | 10514 | F40B 6PK | 24 | 20000 | | | | | | | | | | 101 | Phosphor Blue | |
| | | 40 | 48.0 | 10517 | F40G 6PK | 24 | 20000 | | | | | | | | | | 101 | Phosphor Green | |
| Preheat | | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 20 | 24.0 | 10231 | F20T12/B 6PK | 24 | 9000 | | | | | | | | | | 101 | Phosphor Blue | |
| | | 20 | 24.0 | 10233 | F20T12/G 6PK | 24 | 9000 | | | | | | | | | | 101 | Phosphor Green | |
| Gold Lamps | | | | | | | | | | | | | | | | | | | |
| T5 | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 28 | 45.2 | 25768 | F28T5/GO/CVG | 40 | 20000 | | 1986 | 1946 | | | | | | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions | |
| T8 | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 17 | 24.0 | 25779 | F17T8/GO/ECOCVG | 24 | 15000 | | 970 | 950 | | | | | | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions | |
| | | 25 | 36.0 | 25783 | F25T8/GO/ECOCVG | 24 | 15000 | | 1590 | 1558 | | | | | | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions | |
| | | 32 | 48.0 | 25784 | F32T8/GO/ECOCVG | 36 | 15000 | | 2280 | 2235 | | | | | | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions | |
| T12 | | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 40 | 48.0 | 25850 | F40/GO/CVG | 30 | 20000 | | 2510 | 2460 | | | | | | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions | |
| T12 | Single Pin (Fa8) | 55 | 72.0 | 25854 | F72T12/GO/CVG | 15 | 12000 | | 4150 | 4070 | | | | | | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions | |
| | | 55 | 96.0 | 25852 | F96T12/GO/CVG | 15 | 12000 | | 5640 | 5530 | | | | | | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions | |
| T12 | Recessed Double Contact (R17d) | 110 | 96.0 | 25853 | F96T12/GO/HO/CVG | 15 | 12000 | | 8010 | 7850 | | | | | | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions | |
| Germicidal Lamps | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 4 | 6.0 | 15872 | G4T5 | 24 | 6000 | | | | | | | | | | 16 | 106 | Clear, UVC Source |
| | | 6 | 8.0 | 15873 | G6T5 | 24 | 6000 | | | | | | | | | | 16 | 106 | Clear, UVC Source |
| | | 8 | 12.0 | 11077 | G8T5 | 24 | 7500 | | | | | | | | | | 16 | 106 | Clear, UVC Source |
| | | 11 | 9.0 | 29495 | G11T5 | 24 | 8000 | | | | | | | | | | 16 | 106 | Clear, UVC Source |
| T5 | Single Pin (Fa8) | 39 | 36.0 | 15874 | G36T5 | 24 | 9000 | | | | | | | | | | 16 | 106 | Clear, UVC Source |
| | | 65 | 64.0 | 15864 | G64T5 | 24 | 9000 | | | | | | | | | 16 | 106 | Clear, UVC Source | |
| T5 | 4-Pin (G10q) | 16 | 13.0 | 29502 | G16T5/4P/SE | 24 | 8000 | | | | | | | | | 9,16 | 106 | Clear, UVC Source | |
| | | 39 | 34.0 | 29503 | G36T5/4P/SE | 24 | 9000 | | | | | | | | 9,16 | 106 | Clear, UVC Source | | |
| | | 65 | 64.0 | 29504 | G64T5/4P/SE | 24 | 9000 | | | | | | | | 9,16 | 106 | Clear, UVC Source | | |
| T8 | Medium Bi-Pin (G13) | 9.5 | 14.0 | 29498 | G10T8 | 24 | 6000 | | | | | | | | | 16 | 106 | Clear, UVC Source | |
| | | 15 | 18.0 | 11078 | G15T8 | 24 | 7500 | | | | | | | | 16 | 106 | Clear, UVC Source | | |
| | | 25 | 18.0 | 11082 | G25T8 | 24 | 7500 | | | | | | | | 16 | 106 | Clear, UVC Source | | |
| | | 30 | 36.0 | 11080 | G30T8 | 24 | 7500 | | | | | | | | 16 | 106 | Clear, UVC Source | | |
| | | 36 | 48.0 | 29499 | G36T8 | 24 | 8000 | | | | | | | | 16 | 106 | Clear, UVC Source | | |
| T10 | Medium Bi-Pin (G13) | 55 | 36.0 | 15875 | G55T8/HO | 24 | 8000 | | | | | | | | | 16 | 106 | Clear, UVC Source | |
| | | 20 | 24.0 | 15876 | G20T10 | 24 | 8000 | | | | | | | | 9,16 | 106 | Clear, UVC Source | | |
| Plant and Aquarium/Terrarium Lamps | | | | | | | | | | | | | | | | | | | |
| T8 | | | | | | | | | | | | | | | | | | | |
| 18" T8 Lamps | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 15 | 18.0 | 22910 | F15T8/AR/FS 6PK | 24 | 7500 | | 675 | | 9325 | 64 | | | | | 104 | Aquarium Lamp Freshwater & Saltwater | |
| | | 15 | 18.0 | 49892 | F15T8/PL/AQ 6PK | 24 | 7500 | | 510 | | 3100 | 90 | | | | | 104 | Plant & Aquarium Wide Spectrum | |

Fluorescent Lamps

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information |
|---|--------------------------------|-------|---------------------|------------|-----------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|-----------------------------------|
| Plant and Aquarium/Terrarium Lamps (continued) | | | | | | | | | | | | | | | | | | |
| T12 | | | | | | | | | | | | | | | | | | |
| 24" T12 Lamps | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 20 | 24.0 | 49891 | F20T12/PL/AQ/ECO | 24 | 9000 | | 750 | | 3100 | 90 | ☺ | | | | 104 | Plant & Aquarium Wide Spectrum |
| 48" T12 Lamps | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 40 | 48.0 | 49893 | F40PL/AQ/ECO | 24 | 20000 | | 1900 | | 3100 | 90 | ☺ | | | | 104 | Plant & Aquarium Wide Spectrum |
| Export Outside U.S. and Canada Only | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 40 | 22.5 | 14496 | F40CW/U/6/EX | 12 | 14000 | | 2800 | 2460 | 4100 | 60 | | | | | 102 | 6" Spacing Between Legs |
| | | 40 | 22.5 | 14498 | F40D/U/6/EX | 12 | 14000 | | 2350 | 2070 | 6500 | 75 | | | | | 102 | Daylight, 6" Spacing Between Legs |
| | | 40 | 48.0 | 14656 | F40CW/EX 30PK | 30 | 20000 | | 3050 | 2680 | 4100 | 60 | | | | | 101 | |
| | | 40 | 48.0 | 14488 | F40D/EX | 30 | 20000 | | 2550 | 2240 | 6500 | 75 | | | | | 101 | Daylight |
| T12 | Single Pin (Fa8) | 75 | 96.0 | 12541 | F96T12CW/EX 15PK | 15 | 12000 | | 6150 | 5660 | 4100 | 60 | | | | | 101 | Daylight |
| | | 75 | 96.0 | 12543 | F96T12D/EX 15PK | 15 | 12000 | | 5250 | 4330 | 6500 | 75 | | | | | 101 | Daylight |
| T12 | Recessed Double Contact (R17d) | 110 | 96.0 | 12540 | F96T12CW/HO/EX | 15 | 12000 | | 8900 | 7740 | 4100 | 60 | | | | | 101 | |
| | | 110 | 96.0 | 12542 | F96T12D/HO/EX15 | 15 | 12000 | | 7600 | 6610 | 6500 | 75 | | | | | 101 | Daylight |
| Consumer Products | | | | | | | | | | | | | | | | | | |
| T8 | | | | | | | | | | | | | | | | | | |
| 4' T8 | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 48.0 | 66834 | F32T8/KBP/2PK-24 | 24 | 20000 | | 2900 | 2600 | 3000 | 80 | ☺ | | | | 101 | |
| | | 32 | 48.0 | 66829 | F32T8/KBP/ECO/2P | 6 | 20000 | | 2900 | 2600 | 3000 | 80 | ☺ | | | | 101 | |
| | | 32 | 48.0 | 66837 | F32T8/WS/ECO/2P | 24 | 20000 | | 2900 | 2600 | 3500 | 80 | ☺ | | | | 101 | |
| | | 32 | 48.0 | 66826 | F32T8/GB/ECO/UPC | 36 | 20000 | | 2900 | 2600 | 4100 | 80 | ☺ | | | | 101 | |
| | | 32 | 48.0 | 66833 | F32T8/GB/2PK-24 | 24 | 20000 | | 2900 | 2600 | 4100 | 80 | ☺ | | | | 101 | |
| | | 32 | 48.0 | 66828 | F32T8/GB/ECO/2P | 6 | 20000 | | 2900 | 2600 | 4100 | 80 | ☺ | | | | 101 | |
| | | 32 | 48.0 | 66836 | F32T8/UT/2P-24 | 24 | 15000 | | 1800 | 1600 | 4100 | 87 | ☺ | | | | 101 | |
| | | 32 | 48.0 | 66827 | F32T8/UT/ECO/UPC | 36 | 15000 | | 1800 | 1600 | 4100 | 87 | ☺ | | | | 101 | |
| | | 32 | 48.0 | 66831 | F32T8/UT/ECO/2P | 6 | 15000 | | 1800 | 1600 | 4100 | 87 | ☺ | | | | 101 | |
| | | 32 | 48.0 | 66832 | F32T8/CL/2PK-24 | 24 | 20000 | | 2900 | 2600 | 5000 | 80 | ☺ | | | | 101 | |
| | | 32 | 48.0 | 66835 | F32T8/AS/ECO/2P | 24 | 20000 | | 2900 | 2600 | 6500 | 80 | ☺ | | | | 101 | |
| | | 32 | 48.0 | 66830 | F32T8/AS/2PK-24 | 6 | 20000 | | 2900 | 2600 | 6500 | 80 | ☺ | | | | 101 | |
| T12 | | | | | | | | | | | | | | | | | | |
| 4' F40 Ecolux® Standard | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 40 | 48.0 | 25399 | F40C50/ECO/UPC | 30 | 20000 | | 2250 | 1870 | 5000 | 90 | ☺ | | | | 101 | Chroma 50 |
| | | 40 | 48.0 | 12224 | F40/SUN/ECO/6PK | 24 | 20000 | | 2250 | 1870 | 5000 | 90 | | | | | 101 | Sunlight |
| | | 40 | 48.0 | 66655 | F40/KBP/ECO/2P | 9 | 20000 | | 2900 | 2600 | 3000 | 87 | ☺ | | | | 101 | |
| | | 40 | 48.0 | 66652 | F40/GB/ECO/2P | 9 | 20000 | | 2900 | 2600 | 4100 | 87 | ☺ | | | | 101 | |
| | | 40 | 48.0 | 66651 | F40/UT/ECO/2P | 9 | 15000 | | 2100 | 1900 | 4100 | 87 | ☺ | | | | 101 | |
| | | 40 | 48.0 | 66653 | F40/CL/ECO/2P | 9 | 20000 | | 2900 | 2600 | 5000 | 87 | ☺ | | | | 101 | |
| | | 40 | 48.0 | 66654 | F40/AS/ECO/2P | 9 | 20000 | | 2900 | 2600 | 6500 | 87 | ☺ | | | | 101 | |
| | | 40 | 48.0 | 66650 | F40UT/ECO/UPC | 30 | 15000 | | 2100 | 1900 | 4100 | 87 | ☺ | | | | 101 | |
| Mod-U-Line® Watt-Miser® U-Tubes | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 35 | 23.0 | 66851 | F35/CX41/U6WMUPC | 12 | 14000 | | 2300 | 2185 | 4100 | 87 | ☺ | \$ | → | 1 | 102 | |
| T12 Instant Start | | | | | | | | | | | | | | | | | | |
| 4' T12 | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 40 | 48.0 | 20461 | F48T12CW/UPC 6PK | 24 | 9000 | | 2875 | 2650 | 4100 | 60 | | | | | 101 | |
| 8' T12 Watt-Miser® Energy Saving Lamps | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 60 | 96.0 | 66856 | F96T12/XL/HL35/WM/UPC | 15 | 12000 | | 5900 | 5480 | 3500 | 80 | ☺ | \$ | → | 1 | 101 | |
| | | 60 | 96.0 | 66852 | F96T12/XL/HL41/WM/UPC | 15 | 12000 | | 5900 | 5480 | 4100 | 80 | ☺ | \$ | → | 1 | 101 | |
| T12 Rapid Start | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 30 | 36.0 | 77119 | F30T12/RS/KB/ECO | 24 | 18000 | | 2350 | 2120 | 3000 | 70 | | | | | 104 | Kitchen & Bath |

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information | | |
|--|--------------------------------|-------------------|---------------------|------------|-------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|--|-------------------------|--------|
| Consumer Products (continued) | | | | | | | | | | | | | | | | | | | | |
| T12 High Output Rapid Start Recessed Double Contact | | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 60 | 48.0 | 27313 | F48T12/CW/HO/UPC | 24 | 12000 | | 4050 | 3520 | 4100 | 60 | | | | | 101 | | | |
| Preheat | | | | | | | | | | | | | | | | | | | | |
| T5 | | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 4 | 6.0 | 15983 | F4T5/CW/CB | 10 | 5000 | | 135 | 100 | 4100 | 60 | | | | | 101 | Preheat | | |
| | | 6 | 9.0 | 15986 | F6T5/CW/CB | 10 | 5000 | | 295 | 235 | 4100 | 60 | | | | | 101 | Preheat | | |
| | | 8 | 12.0 | 67419 | F8T5/KB/RVL/CB | 10 | 5000 | | 400 | 320 | 2600 | 75 | | | | | | | Reveal | |
| | | 8 | 12.0 | 15987 | F8T5/CW/CB | 10 | 5000 | | 400 | 320 | 4100 | 60 | | | | | | 101 | Preheat | |
| | | 8 | 12.0 | 25425 | F8T5/WW/CB | 5 | 5000 | | 410 | 330 | 3000 | 52 | | | | | | 101 | Preheat, Warm White | |
| | | 13 | 21.0 | 67420 | F13T5/KB/RVL/CB | 5 | 5000 | | 880 | 640 | 2600 | 75 | | | | | | | | Reveal |
| | | 13 | 21.0 | 49333 | F13T5/CW/CB | 5 | 5000 | | 850 | 705 | 4100 | 60 | | | | | | 101 | | |
| | | 13 | 21.0 | 25426 | F13T5/WW/CB | 5 | 5000 | | 870 | 720 | 3000 | 52 | | | | | | 101 | Preheat, Warm White | |
| T8 | | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 18 | 15.0 | 79043 | F15T8/KB/RVL 6PK | 24 | 7500 | | 825 | 743 | 2600 | 60 | | | | | 104 | Reveal | | |
| | | 15 | 18.0 | 13968 | F15T8/SUN 6PK | 24 | 7500 | | 620 | 525 | 5000 | 90 | | | | | 101 | Preheat, Sunlight | | |
| | | 15 | 18.0 | 21326 | F15T8/KB 6PK | 24 | 7500 | | 940 | 850 | 3000 | 70 | | | | | 104 | Preheat, Kitchen & Bath | | |
| | | 15 | 18.0 | 10143 | F15T8/CW 6PK | 24 | 7500 | | 825 | 725 | 4100 | 60 | | | | | 101 | Preheat | | |
| | | 30 | 36.0 | 22747 | F30T8/KB 6PK | 24 | 7500 | | 2125 | 1910 | 3000 | 70 | | | | | 104 | Preheat, Kitchen & Bath | | |
| T12 | | | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 14 | 15.0 | 10117 | F14T12/CW 6PK | 24 | | | 650 | 550 | 4100 | 60 | | | | | 101 | Preheat | | |
| | | 14 | 15.0 | 22979 | F14T12/KB 6PK | 24 | 9000 | | 700 | 650 | 3000 | 70 | | | | | 104 | Preheat | | |
| | | 15 | 18.0 | 10183 | F15T12/CW 6PK | 24 | 9000 | | 760 | 685 | 4100 | 60 | | | | | 104 | Preheat, Kitchen & Bath | | |
| | | 15 | 18.0 | 22745 | F15T12/KB 6PK | 24 | 9000 | | 785 | 730 | 3000 | 70 | | | | | 104 | Preheat | | |
| | | 24 | 20.0 | 79042 | F20T12/KB/ECO/RVL | 24 | 9000 | | 1125 | 1012 | 2600 | 60 | | | | | | 104 | Reveal | |
| | | 20 | 24.0 | 80046 | F20T12/CW/ECO 6PK | 24 | 9000 | | 1200 | 1150 | 4100 | 60 | | | | | | 101 | Preheat | |
| | | 20 | 24.0 | 25575 | F20T12/DJ/ECO/UPC | 24 | 9000 | | 1025 | 945 | 6500 | 75 | | | | | | 101 | Preheat, Daylight | |
| | | 20 | 24.0 | 21325 | F20T12/KB/ECO | 24 | 9000 | | 1275 | 1200 | 3000 | 70 | | | | | | 104 | Preheat, Kitchen & Bath | |
| | | 20 | 24.0 | 14419 | F20T12/SUN/ECO | 24 | 9000 | | 875 | 790 | 5000 | 90 | | | | | | 101 | Preheat, Sunlight | |
| | | 20 | 24.0 | 25577 | F20T12/WW/ECO/UPC | 24 | 9000 | | 1250 | 1150 | 3000 | 52 | | | | | | 101 | Preheat, Warm White | |
| | | 20 | 24.0 | 10231 | F20T12/B 6PK | 24 | 9000 | | 450 | 330 | | | | | | | | 101 | Preheat | |
| | | 20 | 24.0 | 10233 | F20T12/G 6PK | 24 | 9000 | | 1575 | 957 | | | | | | | | 101 | Preheat | |
| | | Blacklight | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 15 | 24.0 | 35884 | F15T8/BL 6PK | 24 | 7500 | | | | | | | | | 8 | 105 | Blacklight, UVA Source | | |
| T12 | Medium Bi-Pin (G13) | 20 | 24.0 | 10244 | F20T12/BL 6PK | 24 | 9000 | | | | | | | | | 8 | 105 | Blacklight, UVA Source | | |
| | | 40 | 40.0 | 10526 | F40BL 6PK | 24 | 20000 | | | | | | | | | 8 | 105 | Blacklight, UVA Source | | |
| Blacklight Blue | | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 15 | 18.0 | 35885 | F15T8/BLB 6PK | 24 | 7500 | | | | | | | | | | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter | | |
| T12 | Medium Bi-Pin (G13) | 20 | 24.0 | 34747 | F20T12/BLB 6PK | 24 | 9000 | | | | | | | | | | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter | | |
| T12 | Medium Bi-Pin (G13) | 40 | 40.0 | 10531 | F40BLB 6PK | 24 | 20000 | | | | | | | | | | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter | | |
| T9 Circline® | | | | | | | | | | | | | | | | | | | | |
| T9 | 4-Pin (G10q) | 20 | 6.5 | 42732 | FC6T9/CW | 12 | 12000 | | 800 | 560 | 4100 | 60 | | | | | 101 | | | |
| | | 22 | 8.25 | 33774 | FC8T9/CW | 12 | 12000 | | 1100 | 825 | 4100 | 60 | | | | | 101 | | | |
| | | 22 | 8.25 | 11026 | FC8T9/D | 12 | 12000 | | 925 | 690 | 6500 | 75 | | | | | 101 | Daylight | | |
| | | 22 | 8.25 | 11084 | FC8T9/KB | 6 | 12000 | | 1400 | 1120 | 3000 | 82 | | | | | 104 | Kitchen & Bath | | |
| | | 32 | 12.0 | 33890 | FC12T9/CW | 12 | 12000 | | 1950 | 1460 | 4100 | 60 | | | | | 101 | | | |
| | | 32 | 12.0 | 11039 | FC12T9/D | 12 | 12000 | | 1675 | 1260 | 6500 | 75 | | | | | 101 | Daylight | | |
| | | 32 | 12.0 | 11085 | FC12T9/KB | 6 | 12000 | | 2400 | 1920 | 3000 | 82 | | | | | 104 | Kitchen & Bath | | |
| | | 40 | 16.0 | 33893 | FC16T9/CW | 12 | 12000 | | 2700 | 2030 | 4100 | 60 | | | | | 101 | | | |
| | | 40 | 16.0 | 11052 | FC16T9/D | 12 | 12000 | | 2250 | 1690 | 6500 | 75 | | | | | 101 | Daylight | | |

Fluorescent Lamps

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information |
|---------------------------------------|---------------------|-------|---------------------|------------|-------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|---------------------------------------|
| covGuard® Shatter Resistant | | | | | | | | | | | | | | | | | | |
| T8 Preheat | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 15 | 18.0 | 46627 | F15T8/KB/CVG/UPC | 24 | 7500 | | 910 | 825 | 3000 | 70 | | | | 11,13 | 103 | Blocks UV |
| T12 Rapid Start Watt-Miser® | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 34 | 48.0 | 26044 | F34CX41WMECOCCVG | 30 | 20000 | | 2400 | 2130 | 4100 | 87 | ☞ | \$ | * | 1,11,13 | 101 | Blocks UV |
| T12 Preheat | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 20 | 24.0 | 80984 | F20T12CWECOCVGUPC | 24 | 9000 | | 1160 | 1110 | 4100 | 60 | | | | 11,13 | 103 | Blocks UV |
| Plant and Aquarium / Terrarium | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 15 | | 22910 | F15T8/AR/FS 6PK | 24 | 7500 | | 675 | | 9325 | 64 | | | | | 104 | Aquarium Lamp Fresh-water & Saltwater |
| | | 15 | 18.0 | 49892 | F15T8/PL/AQ 6PK | 24 | 7500 | | 510 | | 3100 | 90 | | | | | 104 | Plant & Aquarium Wide Spectrum |
| T12 | Medium Bi-Pin (G13) | 20 | 24.0 | 22908 | F20T12/AR/FR 6PK | 24 | 9000 | | 600 | | 4000 | 92 | ☞ | | | | 104 | Aquarium Lamp Freshwater |
| | | 20 | 24.0 | 49891 | F20T12/PL/AQ/ECO | 24 | 9000 | | 750 | | 3100 | 90 | ☞ | | | | 104 | Plant & Aquarium Wide Spectrum |
| | | 40 | 48.0 | 49893 | F40PL/AQ/ECO | 24 | 20000 | | 1900 | | 3100 | 90 | ☞ | | | | 104 | Plant & Aquarium Wide Spectrum |

Operating Notes

General Operation

GE fluorescent lamps should be used only with auxiliary equipment designed to produce proper characteristics. Specifications for auxiliary equipment are covered by ANSI. Specifications for auxiliary equipment not included in ANSI Standards are available from GE Lighting.

Factors Affecting Lamp Performance

Ballasts

The three basic types of ballasts for fluorescent lamps are Preheat (PH), Instant Start (IS), and Rapid Start (RS). In general, lamps identified as preheat, rapid start or instant start should be used only on the corresponding ballast type. Electronic ballasts are presently available in both instant start and rapid start designs. Ballasts that operate with output currents below recommended levels, either by design or poor performance, will reduce fluorescent lamp life.

Application – Choosing the appropriate ballast for an application can have an impact on lamp life. For example, T8 lamps with electronic Instant Start ballasts should not be used in applications with electronic controls (such as occupancy sensors). The frequent switching will significantly reduce lamp life. Use only programmed rapid start ballasts in these situations.

Operating Characteristics – Fluorescent lamp life is strongly affected by the ballast. ANSI has set standards for fluorescent ballasts that will ensure proper operation of fluorescent lamps. Ballast characteristics that have a significant effect on lamp life are Current Crest Factor, Starting Time, Cathode Voltage and Open Circuit Voltage.

Ballast Factor – This is the percentage of a lamp's rated lumen output that can be expected when operated on a specific, commercially available ballast under laboratory conditions. For example, a ballast having a ballast factor of 0.93 will result in the lamp emitting 93% of its rated lumen output.

High Frequency – All fluorescent lamps operate more efficiently when driven at frequencies greater than 15 kHz. Four-foot fluorescent lamps operate approximately 10% more efficiently, while eight-foot lamps improve efficiency by about 5%. This efficiency improvement is one reason for the popularity of electronic ballasts.

Temperature

Light output and watts of a fluorescent lamp are affected by the ambient temperature, and by drafts. Most fluorescent lamps reach their maximum light output at room temperatures or at "luminaire temperatures." All-Weather fluorescent lamps are designed with jackets that improve performance in low-temperature environments.

Luminaire

The design of the lighting fixture (luminaire) affects the ambient temperature in which the fluorescent lamps will be operating. A fixture that operates too cool or warm will result in lower light output from the lamps and reduce illumination levels.

Starting

The life of a fluorescent lamp is affected by the number of times the lamp is started. Starting results in shorter lamp life, while continuous operation will provide the longest lamp life. All fluorescent lamps, except where noted, have life ratings based on three hours per start.

General Information

Lumens

Nominal Initial Lumens refer to the nominal light output of the lamp after 100 hours of operation at 25° C. **Nominal Mean Lumens** refer to the nominal light output of the lamp at 40% of its rated life. Some values are based on engineering calculations derived from extrapolation of initial measured lumens.

A self-ballasted lamp is measured using its integral ballast. Lamps without an integral ballast are measured using reference ballasts.

Lumens produced by lamps operated on commercial ballasts may not be equivalent to reference ballast ratings. For lighting design calculations, refer to the ballast manufacturer's published data for the appropriate "Ballast Factor."

Nominal Watts

Wattage is classified in accordance with American National Standards Institute standards for lamp classification purposes and may not be the same as the wattage run on a reference ballast. The nominal wattage as defined by ANSI may vary from the listed wattage. Watts consumed by lamps operated on commercial ballasts may not be equivalent to reference ballast ratings.

Rated Life

The rated life (hours) is the approximate median life when lamps are operated for three hours per start under laboratory conditions using an ANSI reference ballast or GE Lighting specifications where no industry standards exist. Some lamps are rated at 12 hours per start where noted.

Performance Notes:

T8 Lamps:

- Rated life for 2 ft through 4 ft. Starcoat® Ecolux® Medium Bi-Pin T8 Lamps is Rated life on programmed rapid start circuits.
- Rated life for the F40T8 is rated life on rapid start circuits. Rated life for these linear lamps on instant start electronic circuits is reduced by 25%.

T12 Lamps:

- Life of 4' T12 lamps on single-lamp, rapid start ballasts may be reduced.

Color Temperature/Chromaticity

Approximate color temperature of fluorescent is measured using industry standard methods and is based on a nominal 40-watt source. Fluorescent sources operating at different lamp currents will have slightly shifted color appearances when compared to the corresponding 40-watt sources.

Scotopic/Photopic Ratio

This measurement accounts for the fact that of the two light sensors in the retina, rods are more sensitive to blue light (Scotopic Vision) and cones to yellow light (Photopic Vision). The Scotopic/Photopic (S/P) Ratio is an attempt to capture the relative strengths of these two responses. S/P is calculated as the ratio of scotopic lumens to photopic lumens, for the light source, on an ANSI reference ballast. Cooler sources (higher color temperature lamps) tend to have higher values of the S/P Ratio compared to warm sources.

Fluorescent Lamps

Scotopic/Photopic (S/P) Ratio:

This measurement accounts for the fact that of the two light sensors in the retina, rods are more sensitive to blue light (Scotopic vision) and cones to yellow light (Photopic vision). The Scotopic/Photopic (S/P) Ratio is an attempt to capture the relative strengths of these two responses. Cooler sources (higher color temperature lamps) tend to have higher values of the S/P Ratio compared to warm sources.

| T5 | S/P Ratio |
|-------|-----------|
| 830 | 1.3 |
| 835 | 1.5 |
| 841 | 1.7 |
| 850 | 1.9 |
| 865 | 2.2 |
| F28T8 | S/P Ratio |
| SP30 | 1.3 |
| SP35 | 1.5 |
| SP41 | 1.8 |
| SP50 | 2.0 |

| F17 and F25T8 | S/P Ratio |
|---------------|-----------|
| SP30 | 1.3 |
| SP35 | 1.4 |
| SP41 | 1.6 |
| F17 and F25T8 | S/P Ratio |
| SPX30 | 1.3 |
| SPX35 | 1.5 |
| SPX41 | 1.8 |
| SPX50 | 2.0 |
| SPX65 | 2.3 |

| F32 and F32T8/WM | S/P Ratio |
|--------------------|-----------|
| SP30 | 1.3 |
| SP35 | 1.4 |
| SP41 | 1.6 |
| SP50 | 1.9 |
| SP65 | 2.1 |
| F32T8 and F32T8/HL | S/P Ratio |
| SPX30 | 1.3 |
| SPX35 | 1.5 |
| SPX41 | 1.8 |
| SPX50 | 2.0 |
| SPX65 | 2.3 |

Footnotes

- 1 Watt-Miser®, Watt-Miser® Plus, F28T8, F32T8/25W and Energy Efficient (EE) lamps are intended for use where ambient temperatures are 60°F (16°C) or higher and where the lamp surface is protected from strong air drafts. Failure to protect the lamp surface may result in reduced life, poor starting or erratic operation, such as flickering or spiraling. These lamps are not recommended for use with dimming systems. All T12 Watt-Miser® lamps are intended for use on two-lamp, indoor, lead, high power factor ballasts and are not recommended for use with dimming or reduced current systems. The use of T12 Watt-Miser® lamps on single lamp ballasts may shorten lamp life. T12 Rapid Start Watt-Miser® lamps are intended for use only with Rapid Start Ballasts. F34 Rapid Start Watt-Miser® lamps on high frequency electronic systems may display erratic starting before end of life. T8 Watt-Miser® lamps and F28UMX lamps are intended for use only with instant start ballasts. They are, however, also approved for use on GE UltraStart® programmed rapid start ballasts.
- 2 F40T17/CW/IS lamps are for use only in fixtures equipped with instant start ballasts.
- 3 Because Power Groove® and Very High Output lamps are most used in commercial applications, the life rating is based on 12 hrs. per start.
- 4 Bare "Cold Temperature" lamps (as indicated by /CT) and "All Temperature" lamps are designed for use where ambient temperatures drop below 60°F (16°C).
- 5 Performance data based on engineering estimates.
- 6 **CAUTION:** Risk Group 1 (Low Risk): UV emitted from this lamp. Skin or eye irritation could result. Minimize exposure.
- 7 **WARNING:** Risk Group 3 (High Risk): UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result.
- 8 Shoplites are not recommended to be used on F40 full light output ballasts. Life will be reduced by approximately 50%.
- 9 Lumen rating based on approximate 3% reduction in light output with covRguard® sleeving.
- 10 Do not use covRguard® HO lamps in watertight or airtight fixtures.
- 11 Blocks 100% of UV-B and UV-C. Blocks from 75 to 99% of UV-A, depending on lamp type.
- 12 Life rating is based on 12 hrs. per start.
- 13 Lumen rating based on approximate 3% reduction in light output with jacket.
- 14 Life rating is based on UV maintenance curve and is measured at 80% of initial (100hr) UVC output.
- 15 Jacketed "Cold Temperature" lamps (as indicated by -CT) are designed for use where ambient temperatures do not rise above 32°F (0°C).
- 16 T8 lamps run on Instant Start ballasts should not be used in conjunction with electronic controls such as occupancy sensors. The frequent switching will significantly impact lamp life and void any warranties. Programmed Rapid Start ballasts such as GE's UltraStart® ballast should be used in these situations.
- 17 T5 Starcoat® Ecolux® lamp initial and mean lumen ratings are taken at 95°F (35°C)
- 18 Rated life is given for programmed start ballasts. Life ratings are based on engineering data with lamps cycled every 3 or 12 operating hours. Lamp life is approximately 25% shorter on instant start ballasts as compared to programmed start ballasts.
- 19 Rated life is given for programmed start ballasts. Life ratings are based on engineering data with lamps cycled every 3 or 12 operating hours. See chart on page 4-4 for more details.

Warning and Caution Notices

101

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

102

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

⚠ CAUTION

Improper handling may cause breakage

- Do not carry lamp by bracket

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

103

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

104

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Avoid direct water/liquid contact

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

105

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

⚠ CAUTION

Lamp emits UV radiation which may cause eye/skin irritation. RG-1

- Minimize exposure

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

106

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

Lamp emits UV radiation which may cause eye/skin injury. RG-3

- Avoid exposure of eyes and skin to unshielded lamp

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

107

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not open – there are no serviceable parts inside
- Do not drill or cut into plastic parts
- Avoid direct water/liquid contact
- Fully insert plug
- Use indoors only

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Lamp is not replaceable. Do not attempt to remove lamp from fixture
- Use in permanent installation only – not for portable use

Unit will fail if not installed properly

- Follow installation instructions

108

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Avoid direct water/liquid contact

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
FluorescentLED Lamps,
Tubes and Modules

Stage and Studio

Miniature, Sealed
Beam and Automotive

Projection

Compact Fluorescent Lamps

| | | | |
|--|------|---|------|
| Bulb Identification | 5-2 | Specialty | |
| Lamp Locator | 5-2 | Colored Spiral® | 5-14 |
| Base Identification | 5-4 | Film and TV Lighting HLBX 4-Pin | 5-14 |
| Introduction | 5-4 | Footnotes | 5-15 |
| Product Information | 5-5 | Caution Notices | 5-15 |
| Section Headings | 5-6 | Cross-Reference | 5-17 |
| Plug-in Lamps | | GE Enhanced Plug-in Product Comparison | 5-18 |
| 2-Pin Low Wattage Biax® | 5-7 | | |
| 4-Pin High Lumen Biax® | 5-7 | | |
| 2-Pin Double Biax® | 5-8 | | |
| 4-Pin Double Biax® | 5-8 | | |
| 4-Pin Triple Biax® | 5-8 | | |
| 4-Pin High Output Biax® | 5-9 | | |
| 4-Pin 2D® | 5-9 | | |
| Self-Ballasted Lamps | | | |
| Bright From The Start® A Shape | 5-10 | | |
| Bright From The Start® Decorative Globes | 5-10 | | |
| Reveal® Globes | 5-10 | | |
| Reveal® Reflectors | 5-10 | | |
| Reveal® Spiral® 3-Way | 5-10 | | |
| Reveal® Spiral® T3 | 5-10 | | |
| Reveal® Bright From The Start® A Shape | 5-10 | | |
| Spiral® T2 | 5-11 | | |
| Spiral® T3 | 5-11 | | |
| Spiral® T3 Dimming | 5-12 | | |
| Spiral® T4 and T5 Hi Lumen | 5-12 | | |
| Spiral® 3-Way | 5-12 | | |
| Spiral® GU 24 | 5-12 | | |
| Reflectors/Indoor PAR | 5-12 | | |
| Outdoor | 5-13 | | |
| Decorative Ceiling Fan Medium Base | 5-13 | | |
| Decorative Ceiling Fan Candelabra Base | 5-13 | | |
| Decorative A Shapes | 5-13 | | |
| Decorative Bullet | 5-13 | | |
| Decorative Candle Candelabra Base | 5-13 | | |
| Decorative Candle Medium Base | 5-13 | | |
| Decorative Globes | 5-14 | | |

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

Compact Fluorescent Lamps

Bulb Identification



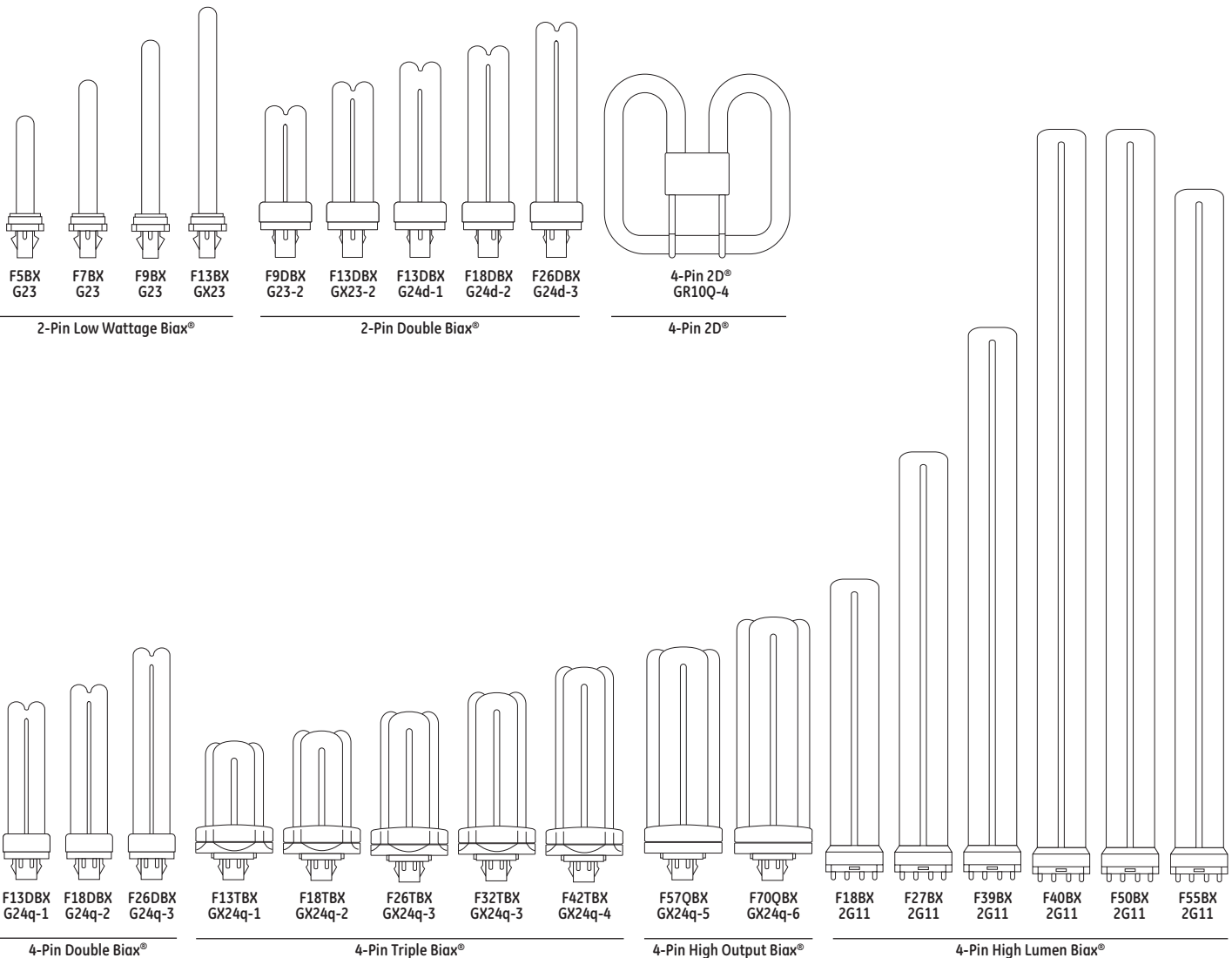
NOMINAL LENGTH:

Overall length including base or pins.

Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

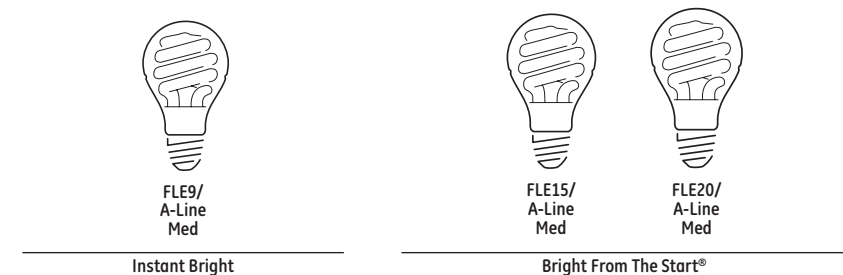
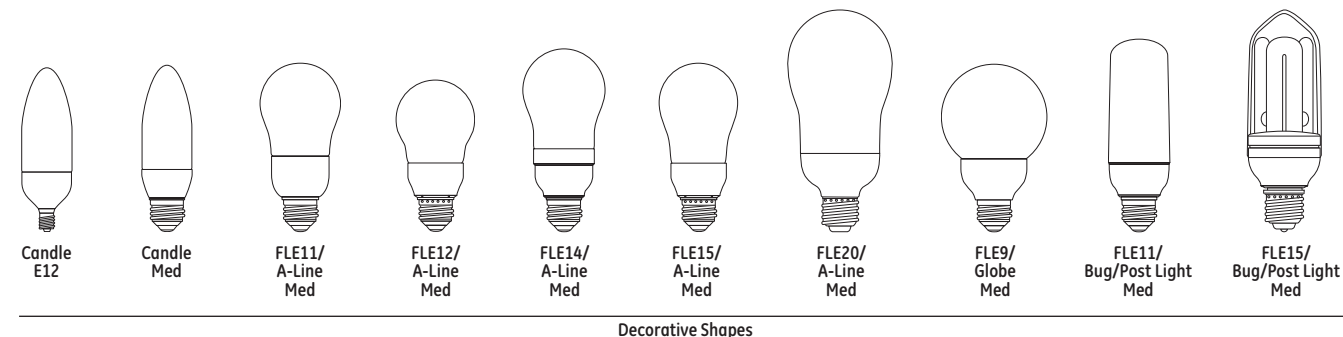
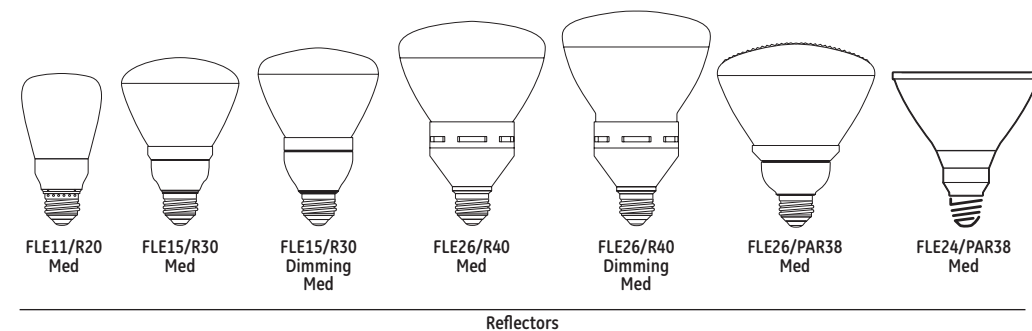
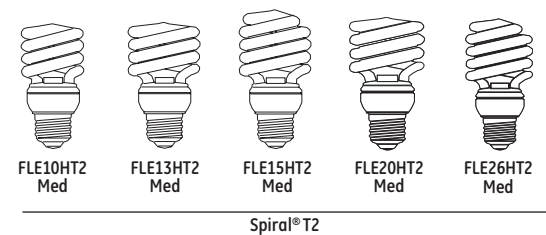
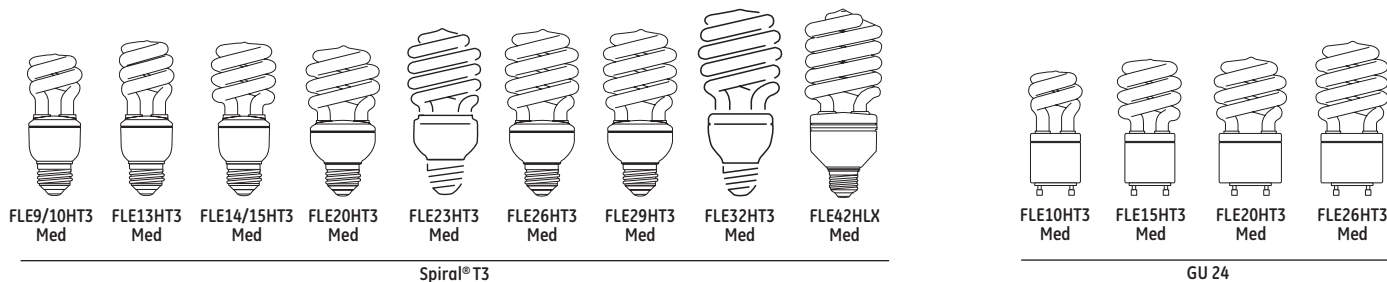
To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

Lamp Locator



Plug-in Lamps

Lamp Locator (continued)



Self-Ballasted Lamps

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

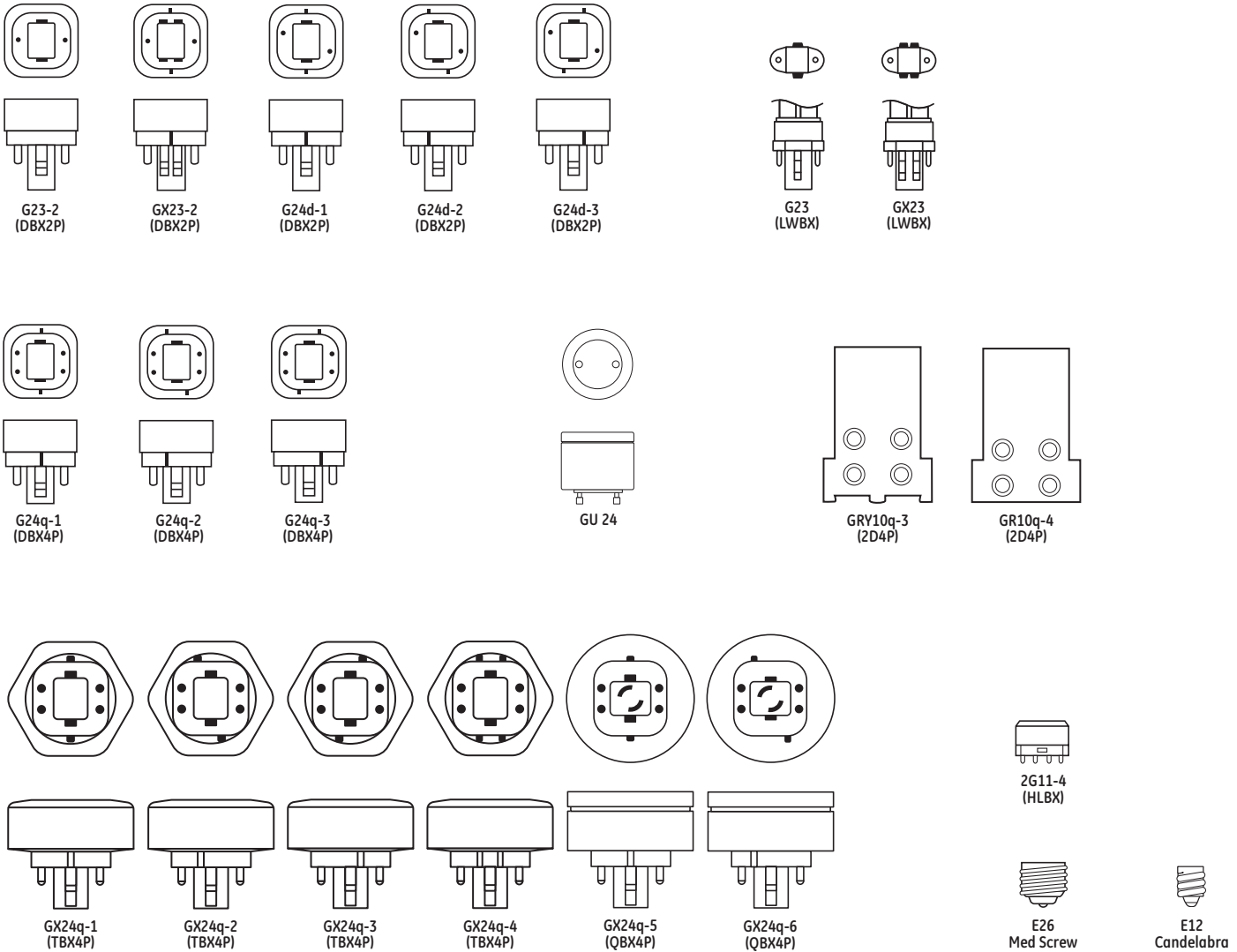
Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

Compact Fluorescent Lamps

Base Identification



Introduction

GE Compact Fluorescent lamps offer many advantages:

- Dramatic energy cost savings...up to 77% vs. incandescent lamps of comparable light output
- Extra long life...most last 8 to 10 times longer, and some last up to 20 times longer, than standard incandescent lamps
- High light output comparable to, and in many cases exceeding, incandescent lamps replaced
- Excellent color rendering...rare earth tri-phosphor provides such high-quality color you won't believe it's fluorescent. Most types offer a choice of color options, from warm to cool, to let you select the tone and atmosphere you need.
- A choice of wattages, shapes and sizes to meet your lighting needs. Designed to fit everything from table lamps to wall sconces and ceiling fixtures.
- Many lamps use amalgam technology which provides stable lumen performance when operated in any position, over a wider range of ambient temperatures.

Compact Fluorescent Brand Name Cross-Reference

| GE | OSRAM/SYLVANIA | PHILIPS |
|-------------------|-----------------|----------|
| 2D® | — | — |
| Biax® | Dulux® S | PL-S |
| High Lumen Biax® | Dulux® L | PL-L |
| Double Biax® | Dulux® D, D/E | PL-C |
| Triple Biax® | Dulux® T/E | PL-T |
| Quad Biax® | — | — |
| High Output Biax® | — | PL-H |
| Spiral® | Dulux® EL Twist | EL Twist |

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturers' performance specifications should be consulted. Lamp performance may be affected by environmental conditions, ballast type and/or other auxiliary equipment.

Product Information

Plug-in Lamps

2-Pin Low Wattage Biax® (pg 5-7)

- Compact size offers fixture and design flexibility
- GX23 and G23 bases are preheat lamps with internal starters
- 13-watt version also available with internal electronic starter, providing flicker-free instant on
- Available in warm and cool color temperatures
- TCLP Compliant

4-Pin High Lumen Biax® (pg 5-7)

- Available in a range of sizes and wattages for innovative compact luminaires
- High efficiency and outstanding performance in fixtures make them ideal for 2X2, 1X1 and indirect fixtures
- Available in warm to cool color temperatures; excellent color rendering

2-Pin Double Biax® (pg 5-8)

- More compact than low-wattage Biax® CFLs with higher lumen output—suitable for a broad range of applications
- Preheat lamps with starters; not suitable for use with dimming ballasts
- 26-watt version also available with internal electronic starter, providing flicker-free instant on
- Available in warm to cool color temperatures
- TCLP Compliant

4-Pin Double Biax® (pg 5-8)

- More compact than low-wattage Biax® CFLs with higher lumen output—suitable for a broad range of applications
- Dimmable and compatible with electronic ballasts
- Available in warm to cool color temperatures
- TCLP Compliant

4-Pin Triple Biax® (pg 5-8)

- GE's shortest, most compact Biax® lamp. 17-31% shorter than similar wattage Double Biax® lamps.
- 4-Pin, dimmable and compatible with electronic ballasts
- Available in a wide range of wattages: from 13 to 42 watts
- Available in warm to cool color temperatures
- TCLP Compliant

4-Pin High Output Biax® (pg 5-9)

- GE's highest light output compact fluorescent lamps
- High efficacy 72-75 LPW
- Dimmable, available in 5 colors (2,700 to 5,000K)
- Suitable for high-bay lighting
- TCLP Compliant

4-Pin 2D® (pg 5-9)

- Unique shape suitable for broad range of applications
- Uniform light distribution
- High light output – up to 200W incandescent equivalent

Self-Ballasted Lamps

Spiral® (pg 5-11)

- Long life – up to 12,000 hours or more
- One-piece unit screws directly into incandescent sockets
- Wide variety of wattages to meet application needs
- T2 & T3 Spiral® CFLs provide economical solution with small overall size
- The 42-watt T4 Spiral® CFL provides a 150W incandescent replacement in the smallest possible size (fits an 8.5" harp)
- Color-enhanced CFL Reveal® mimics the color of incandescent and halogen Reveal® lamps

3-Way (pg 5-12)

- T3 and T4 lamps available

GU 24 (pg 5-12)

- Long life – 10,000 hour rating
- Simple twist and lock design allows quick and easy lamp change
- Fits all fixtures with GU 24 base

Reflectors/Indoor PAR (pg 5-12)

- R20, R30, R40 and PAR38 glass reflectors available to meet application needs
- Medium based; fits most incandescent reflector applications
- R30 and R40 lamps available with dimming functionality

Decorative Shapes (pg 5-13)

- Variety of shapes (A-Line, Bullet, Candle, Globe, and Post) and wattages to meet all needs
- One-piece unit screws directly into incandescent sockets
- Candle-shaped CFLs available in both medium base and candelabra base

Specialty (pg 5-14)

- T3 13-watt Spiral® CFLs are available in green, red, blacklight, orange, yellow and blue

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
FluorescentLED Lamps,
Tubes and Modules

Stage and Studio

Miniature, Sealed
Beam and Automotive

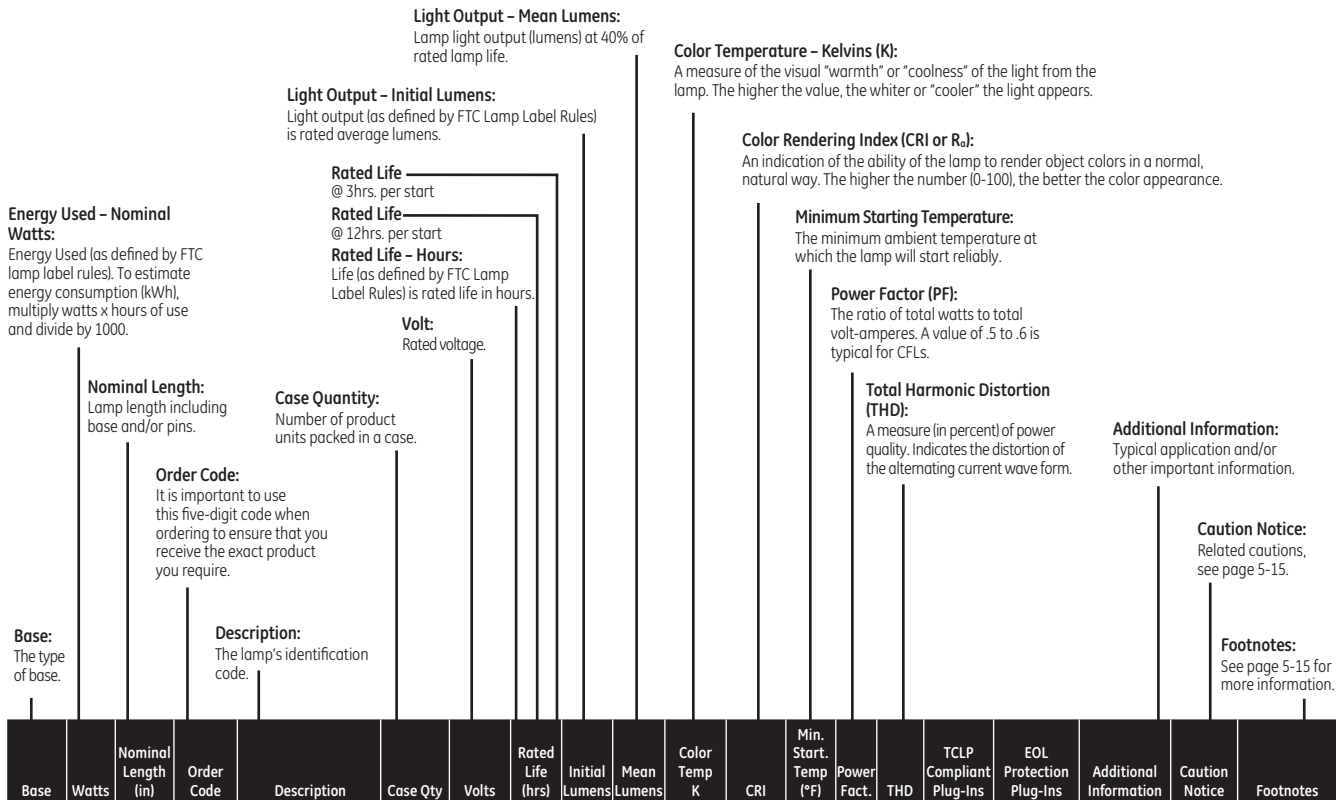
Projection

Compact Fluorescent Lamps

Headings in this catalog section

The following terms and descriptions can help you when checking Compact Fluorescent lamp specifications and when ordering

products. Within each product line, lamps are divided into families, within these families, lamps are then listed by wattage.

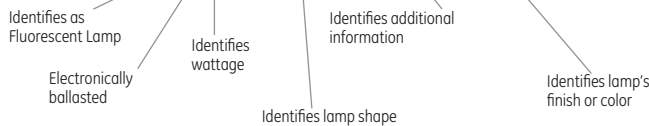


Self-Ballasted Lamps

| Spiral® | | | | | | | | | | | | | | | | | | | |
|---------|-------|---------------------|------------|----------------|----------|-------|------------------|----------------|-------------|--------------|-----|-----------------------|-------------|-----|-------------------------|-------------------------|------------------------|----------------|------------|
| Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Volts | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Min. Start. Temp (°F) | Power Fact. | THD | TCLP Compliant Plug-Ins | EOL Protection Plug-Ins | Additional Information | Caution Notice | Footnotes |
| Med | 10 | 4.4 | 15829 | FLE10HT3/2/827 | 10 | 120 | 8000 | 520 | 420 | 2700 | 82 | 5 | 0.6 | 120 | | | T3 Spiral®, Boxed | 153 | 1,7,8,9,10 |


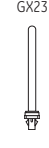



FL E 10 HT3 / 2 / 827



WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape next to lamp information.
2. Measure bulb diameter using ruler in appendix section page D-1 to determine width in eighths of an inch.
3. Identify base type using table on page 5-4.
4. Find your lamp in the table containing the bulb shape, size and base.

| Base | Watts | Nom. Length (in) | Order Code | Description | Case Qty | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Min Starting Temp (°F) | TCLP Compliant Plug-Ins | EOL Protection Plug-Ins | Additional Information | Caution Notice | Footnotes | |
|--|-------|---|------------|-------------|-------------------|------------------|----------------|-------------|--------------|------|------------------------|-------------------------|-------------------------|------------------------|-----------------------------|-----------|----------|
| Plug-in Lamps | | | | | | | | | | | | | | | | | |
| 2-Pin Low Wattage Biax® | | | | | | | | | | | | | | | | | |
|  | G23 | 5 | 4.2 | 97551 | F5BX/827/ECO | 100 | 10000 | 265 | 220 | 2700 | 82 | 0 | * | | 151 | 1,2 | |
| | | 5 | 4.2 | 97553 | F5BX/841/ECO | 100 | 10000 | 265 | 220 | 4100 | 82 | 0 | * | | 151 | 1,2 | |
| | | 7 | 5.3 | 97554 | F7BX/827/ECO | 100 | 10000 | 425 | 350 | 2700 | 82 | 0 | * | | 151 | 1,2 | |
| | | 7 | 5.3 | 97556 | F7BX/835/ECO | 100 | 10000 | 425 | 350 | 3500 | 82 | 0 | * | | 151 | 1,2 | |
| | | 7 | 5.3 | 97557 | F7BX/841/ECO | 100 | 10000 | 425 | 350 | 4100 | 82 | 0 | * | | 151 | 1,2 | |
| | | 9 | 6.6 | 97558 | F9BX/827/ECO | 100 | 10000 | 600 | 500 | 2700 | 82 | 0 | * | | 151 | 1,2 | |
| | | 9 | 6.6 | 97560 | F9BX/835/ECO | 100 | 10000 | 600 | 500 | 3500 | 82 | 0 | * | | 151 | 1,2 | |
| | | 9 | 6.6 | 97561 | F9BX/841/ECO | 100 | 10000 | 600 | 500 | 4100 | 82 | 0 | * | | 151 | 1,2 | |
| | |  | GX23 | 13 | 7.0 | 97573 | F13BX/827/ECO | 100 | 10000 | 825 | 710 | 2700 | 82 | 32 | * | | 151 |
| 13 | 7.0 | | | 97574 | F13BX/830/ECO | 100 | 10000 | 825 | 710 | 3000 | 82 | 32 | * | | 151 | 1,2 | |
| 13 | 7.0 | | | 97569 | F13BX/835/ECO | 100 | 10000 | 825 | 710 | 3500 | 82 | 32 | * | | 151 | 1,2 | |
| 13 | 7.0 | | | 97571 | F13BX/841/ECO | 100 | 10000 | 825 | 710 | 4100 | 82 | 32 | * | | 151 | 1,2 | |
| 13 | 7.0 | | | 97572 | F13BX/850/ECO | 100 | 10000 | 784 | 675 | 5000 | 80 | 32 | * | | Internal Electronic Starter | 151 | 1,2 |
| 4-Pin High Lumen Biax® | | | | | | | | | | | | | | | | | |
|  | 2G11 | 18 | 9.0 | 16649 | F18BX/SPX30 10PK | 40 | 10000 | 1200 | 1080 | 3000 | 82 | 25 | | | 151 | 1,2,4,6 | |
| | | 18 | 9.0 | 16053 | F18BX/SPX35 10PK | 40 | 10000 | 1200 | 1080 | 3500 | 82 | 25 | | | 151 | 1,2,4,6 | |
| | | 18 | 9.0 | 16940 | F18BX/SPX41 10PK | 40 | 10000 | 1200 | 1080 | 4100 | 82 | 25 | | | 151 | 1,2,4,6 | |
| | | 18 | 10.0 | 17174 | F18BXSPX30RS10PK | 40 | 20000 | 1250 | 1130 | 3000 | 82 | 50 | | | 151 | 1,2,6,13 | |
| | | 18 | 10.5 | 17175 | F18BXSPX35RS10PK | 40 | 20000 | 1250 | 1130 | 3500 | 82 | 50 | | | 151 | 1,2,6,13 | |
| | | 18 | 10.5 | 12521 | F18BX/SPX65/RS | 40 | 20000 | 1160 | 1050 | 6500 | 82 | 50 | | | 151 | 1,2,6,13 | |
| | | 27 | 12.8 | 16944 | F27BXSPX30RS10PK | 40 | 12000 | 1800 | 1620 | 3000 | 82 | 50 | | | 151 | 1,2,6,13 | |
| | | 27 | 12.8 | 16948 | F27BXSPX35RS10PK | 40 | 12000 | 1800 | 1620 | 3500 | 82 | 50 | | | 151 | 1,2,6,13 | |
| | | 27 | 12.8 | 16951 | F27BXSPX41RS10PK | 40 | 12000 | 1800 | 1620 | 4100 | 82 | 50 | | | 151 | 1,2,6,13 | |
| | | 39 | 16.5 | 16538 | F39BXSPX30RS10PK | 40 | 12000 | 2850 | 2510 | 3000 | 82 | 50 | | | 151 | 1,2,6,13 | |
| | | 39 | 16.5 | 15867 | F39BXSPX35RS10PK | 40 | 12000 | 2850 | 2510 | 3500 | 82 | 50 | | | 151 | 1,2,6,13 | |
| | | 39 | 16.5 | 16952 | F39BXSPX41RS10PK | 40 | 12000 | 2850 | 2510 | 4100 | 82 | 50 | | | 151 | 1,2,6,13 | |
| | | 40 | 22.5 | 16953 | F4030BXSPX30 10P | 40 | 20000 | 3150 | 2840 | 3000 | 82 | 50 | | | 151 | 1,2,6,13 | |
| | | 40 | 22.5 | 20444 | F40/30BXSPX30-36 | 36 | 20000 | 3150 | 2840 | 3000 | 82 | 50 | | | Bulk Pack | 151 | 1,2,6,13 |
| | | 40 | 22.5 | 16648 | F40/30BX/SPX35 | 40 | 20000 | 3150 | 2840 | 3500 | 82 | 50 | | | 151 | 1,2,6,13 | |
| | | 40 | 22.5 | 20446 | F40/30BXSPX35-36 | 36 | 20000 | 3150 | 2840 | 3500 | 82 | 50 | | | Bulk Pack | 151 | 1,2,6,13 |
| | | 40 | 22.5 | 16954 | F40/30BX/SPX41 | 40 | 20000 | 3150 | 2840 | 4100 | 82 | 50 | | | 151 | 1,2,6,13 | |
| | | 40 | 22.5 | 20447 | F40/30BXSPX41-36 | 36 | 20000 | 3150 | 2840 | 4100 | 82 | 50 | | | Bulk Pack | 151 | 1,2,6,13 |
| | | 40 | 22.5 | 10490 | F40/30BX/SPX50RS | 36 | 20000 | 2900 | 2700 | 5000 | 80 | 50 | | | Bulk Pack | 151 | 1,2,6,13 |
| | | 25 | 21.5 | 75399 | F40/25BX830/IS/WM | 40 | 20000 | 2600 | 2400 | 3000 | 82 | 50 | | | 151 | 1,2,6,13 | |
| | | 25 | 21.5 | 75400 | F40/25BX835/IS/WM | 40 | 20000 | 2600 | 2400 | 3500 | 82 | 50 | | | 151 | 1,2,6,13 | |
| | | 25 | 21.5 | 75401 | F40/25BX840/IS/WM | 40 | 20000 | 2600 | 2400 | 4100 | 82 | 50 | | | 151 | 1,2,6,13 | |
| | | 25 | 21.5 | 75402 | F40/25BX850/IS/WM | 40 | 20000 | 2600 | 2400 | 5000 | 82 | 50 | | | 151 | 1,2,6,13 | |
| | | 50 | 22.5 | 20898 | F50BXSPX30RS10PK | 40 | 20000 | 4000 | 3400 | 3000 | 82 | 50 | | | 151 | 1,2,6,13 | |
| | | 50 | 22.5 | 20899 | F50BXSPX35RS10PK | 40 | 20000 | 4000 | 3400 | 3500 | 82 | 50 | | | 151 | 1,2,6,13 | |
| | | 50 | 22.5 | 20900 | F50BXSPX41RS10PK | 40 | 20000 | 4000 | 3400 | 4100 | 82 | 50 | | | 151 | 1,2,6,13 | |
| 55 | 20.7 | 31951 | F55BX/830 | 25 | 20000 | 4800 | 4080 | 3000 | 82 | 50 | | | 151 | 1,2,6,13 | | | |
| 55 | 20.7 | 31952 | F55BX/835 | 25 | 20000 | 4800 | 4080 | 3500 | 82 | 50 | | | 151 | 1,2,6,13 | | | |
| 55 | 20.7 | 31953 | F55BX/840 | 25 | 20000 | 4800 | 4080 | 4100 | 82 | 50 | | | 151 | 1,2,6,13 | | | |

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules












Stage and Studio







Miniature, Sealed Beam and Automotive

Projection













For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4. All footnotes and caution notices found at the end of this section (page 5-15).

Compact Fluorescent Lamps











| Base | Watts | Nom. Length (in) | Order Code | Description | Case Qty | Rated Life (hrs) | Rated Life @ 12 Hrs | Initial Lumens | Mean Lumens | Color Temp K | CRI | Min Starting Temp (°F) | TCLP Compliant Plug-Ins | EOL Protection Plug-Ins | Additional Information | Caution Notice | Footnotes |
|---|-------|------------------|------------|-------------------|----------|------------------|---------------------|----------------|-------------|--------------|-----|------------------------|-------------------------|-------------------------|-----------------------------|----------------|----------------|
| Plug-in Lamps (continued) | | | | | | | | | | | | | | | | | |
| 2-Pin Double Biax® | | | | | | | | | | | | | | | | | |
|  | 9 | 5.5 | 97576 | F9DBX23/827/ECO | 50 | 12000 | | 550 | 470 | 2700 | 82 | | * | | | 151 | 1,2,17 |
| | 9 | 5.5 | 97575 | F9DBX23/841/ECO | 50 | 12000 | | 550 | 470 | 4100 | 82 | | * | | | 151 | 1,2,17 |
|  | 13 | 4.7 | 97586 | F13DBX23/827/ECO | 50 | 12000 | | 810 | 685 | 2700 | 82 | | * | | | 151 | 1,2,17 |
| | 13 | 4.7 | 97587 | F13DBX23/830/ECO | 50 | 12000 | | 810 | 685 | 3000 | 82 | | * | | | 151 | 1,2,17 |
| | 13 | 4.7 | 97588 | F13DBX23/835/ECO | 50 | 12000 | | 810 | 685 | 3500 | 82 | | * | | | 151 | 1,2,17 |
| | 13 | 4.7 | 97589 | F13DBX23/841/ECO | 50 | 12000 | | 810 | 685 | 4100 | 82 | | * | | | 151 | 1,2,17 |
|  | 13 | 5.3 | 97590 | F13DBX/827/ECO | 50 | 12000 | | 900 | 755 | 2700 | 82 | | * | | | 151 | 1,2,17 |
| | 13 | 5.3 | 97591 | F13DBX/830/ECO | 50 | 12000 | | 900 | 755 | 3000 | 82 | | * | | | 151 | 1,2,17 |
| | 13 | 5.3 | 97592 | F13DBX/835/ECO | 50 | 12000 | | 900 | 755 | 3500 | 82 | | * | | | 151 | 1,2,17 |
| | 13 | 5.3 | 97593 | F13DBX/841/ECO | 50 | 12000 | | 900 | 755 | 4100 | 82 | | * | | | 151 | 1,2,17 |
|  | 18 | 6.1 | 97577 | F18DBX/827/ECO | 50 | 12000 | | 1250 | 980 | 2700 | 82 | | * | | | 151 | 1,2,5,17 |
| | 18 | 6.1 | 97578 | F18DBX/830/ECO | 50 | 12000 | | 1250 | 980 | 3000 | 82 | | * | | | 151 | 1,2,5,17 |
| | 18 | 6.1 | 97579 | F18DBX/835/ECO | 50 | 12000 | | 1250 | 980 | 3500 | 82 | | * | | | 151 | 1,2,5,17 |
| | 18 | 6.1 | 97580 | F18DBX/841/ECO | 50 | 12000 | | 1250 | 980 | 4100 | 82 | | * | | | 151 | 1,2,5,17 |
|  | 26 | 6.7 | 97606 | F26DBX/827/ECO | 50 | 12000 | | 1710 | 1460 | 2700 | 82 | | * | | | 151 | 1,2,17 |
| | 26 | 6.7 | 97607 | F26DBX/830/ECO | 50 | 12000 | | 1710 | 1460 | 3000 | 82 | | * | | | 151 | 1,2,17 |
| | 26 | 6.7 | 97608 | F26DBX/835/ECO | 50 | 12000 | | 1710 | 1460 | 3500 | 82 | | * | | | 151 | 1,2,17 |
| | 26 | 6.7 | 97609 | F26DBX/841/ECO | 50 | 12000 | | 1710 | 1460 | 4100 | 82 | | * | | | 151 | 1,2,17 |
| | 26 | 6.7 | 97602 | F26DBX/E/827/ECO | 50 | 10000 | | 1710 | 1460 | 2700 | 82 | | * | | Internal Electronic Starter | 151 | 1,2,15,17 |
| | 26 | 6.7 | 97604 | F26DBX/E/835/ECO | 50 | 10000 | | 1710 | 1460 | 3500 | 82 | | * | | Internal Electronic Starter | 151 | 1,2,15,17 |
| 4-Pin Double Biax® | | | | | | | | | | | | | | | | | |
|  | 13 | 5.0 | 97594 | F13DBX/827/ECO4P | 50 | 17000 | 20000 | 900 | 755 | 2700 | 82 | | * | ▲ | | 151 | 1,2,6,17,18 |
| | 13 | 5.0 | 97595 | F13DBX/830/ECO4P | 50 | 17000 | 20000 | 900 | 755 | 3000 | 82 | | * | ▲ | | 151 | 1,2,6,17,18 |
| | 13 | 5.0 | 97596 | F13DBX/835/ECO4P | 50 | 17000 | 20000 | 900 | 755 | 3500 | 82 | | * | ▲ | | 151 | 1,2,6,17,18 |
| | 13 | 5.0 | 97597 | F13DBX/841/ECO4P | 50 | 17000 | 20000 | 900 | 755 | 4100 | 82 | | * | ▲ | | 151 | 1,2,6,17,18 |
|  | 18 | 5.8 | 97598 | F18DBX/827/ECO4P | 50 | 17000 | 20000 | 1250 | 970 | 2700 | 82 | | * | ▲ | | 151 | 1,2,5,6,17,18 |
| | 18 | 5.8 | 97599 | F18DBX/830/ECO4P | 50 | 17000 | 20000 | 1250 | 970 | 3000 | 82 | | * | ▲ | | 151 | 1,2,5,6,17,18 |
| | 18 | 5.8 | 97600 | F18DBX/835/ECO4P | 50 | 17000 | 20000 | 1250 | 970 | 3500 | 82 | | * | ▲ | | 151 | 1,2,5,6,17,18 |
| | 18 | 5.8 | 97601 | F18DBX/841/ECO4P | 50 | 17000 | 20000 | 1250 | 970 | 4100 | 82 | | * | ▲ | | 151 | 1,2,5,6,17,18 |
|  | 26 | 6.4 | 97610 | F26DBX/827/ECO4P | 50 | 17000 | 20000 | 1800 | 1530 | 2700 | 82 | | * | ▲ | | 151 | 1,2,6,17,18 |
| | 26 | 6.4 | 97611 | F26DBX/830/ECO4P | 50 | 17000 | 20000 | 1800 | 1530 | 3000 | 82 | | * | ▲ | | 151 | 1,2,6,17,18 |
| | 26 | 6.4 | 97612 | F26DBX/835/ECO4P | 50 | 17000 | 20000 | 1800 | 1530 | 3500 | 82 | | * | ▲ | | 151 | 1,2,6,17,18 |
| | 26 | 6.4 | 97613 | F26DBX/841/ECO4P | 50 | 17000 | 20000 | 1800 | 1530 | 4100 | 82 | | * | ▲ | | 151 | 1,2,6,17,18 |
| 4-Pin Triple Biax® | | | | | | | | | | | | | | | | | |
|  | 13 | 4.2 | 97623 | F13TBX/827/4P/ECO | 10 | 17000 | 20000 | 900 | 755 | 2700 | 82 | | * | ▲ | Non-Amalgam | 151 | 1,2,6,17,18 |
| | 13 | 4.2 | 97619 | F13TBX/827/A/ECO | 10 | 17000 | 20000 | 900 | 755 | 2700 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 13 | 4.2 | 97620 | F13TBX/830/A/ECO | 10 | 17000 | 20000 | 900 | 755 | 3000 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 13 | 4.2 | 97621 | F13TBX/835/A/ECO | 10 | 17000 | 20000 | 900 | 755 | 3500 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 13 | 4.2 | 97622 | F13TBX/841/A/ECO | 10 | 17000 | 20000 | 900 | 755 | 4100 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
|  | 18 | 4.8 | 97628 | F18TBX/827/4P/ECO | 10 | 17000 | 20000 | 1200 | 1010 | 2700 | 82 | | * | ▲ | Non-Amalgam | 151 | 1,2,6,17,18 |
| | 18 | 4.8 | 97624 | F18TBX/827/A/ECO | 10 | 17000 | 20000 | 1200 | 1010 | 2700 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 18 | 4.8 | 97625 | F18TBX/830/A/ECO | 10 | 17000 | 20000 | 1200 | 1010 | 3000 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 18 | 4.8 | 97626 | F18TBX/835/A/ECO | 10 | 17000 | 20000 | 1200 | 1010 | 3500 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
|  | 18 | 4.8 | 97627 | F18TBX/841/A/ECO | 10 | 17000 | 20000 | 1200 | 1020 | 4100 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 26 | 5.2 | 97618 | F26TBX/827/4P/ECO | 10 | 17000 | 20000 | 1800 | 1530 | 2700 | 82 | | * | ▲ | Non-Amalgam | 151 | 1,2,6,17,18 |
| | 26 | 5.2 | 97614 | F26TBX/827/A/ECO | 10 | 17000 | 20000 | 1800 | 1530 | 2700 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 26 | 5.2 | 97615 | F26TBX/830/A/ECO | 10 | 17000 | 20000 | 1800 | 1530 | 3000 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 26 | 5.2 | 97616 | F26TBX/835/A/ECO | 10 | 17000 | 20000 | 1800 | 1530 | 3500 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 26 | 5.2 | 97617 | F26TBX/841/A/ECO | 10 | 17000 | 20000 | 1800 | 1530 | 4100 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |








| Base | Watts | Nom. Length (in) | Order Code | Description | Case Qty | Rated Life (hrs) | Rated Life 12 Hrs | Life In Years | Energy Cost \$/Year | Initial Lumens | Mean Lumens | Color Temp K | CRI | Min Starting Temp (°F) | TCLP Compliant Plug-Ins | EOL Protection Plug-Ins | Additional Information | Caution Notice | Footnotes |
|---|-------|------------------|------------|------------------|----------|------------------|-------------------|---------------|---------------------|----------------|-------------|--------------|-----|------------------------|-------------------------|-------------------------|----------------------------|----------------|----------------|
| Plug-in Lamps (continued) | | | | | | | | | | | | | | | | | | | |
| 4-Pin Triple Biax® (continued) | | | | | | | | | | | | | | | | | | | |
|  | 32 | 5.5 | 97629 | F32TBX/827/A/ECO | 10 | 17000 | 20000 | | | 2400 | 2040 | 2700 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 32 | 5.5 | 97630 | F32TBX/830/A/ECO | 10 | 17000 | 20000 | | | 2400 | 2040 | 3000 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 32 | 5.5 | 97631 | F32TBX/835/A/ECO | 10 | 17000 | 20000 | | | 2400 | 2040 | 3500 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 32 | 5.5 | 97632 | F32TBX/841/A/ECO | 10 | 17000 | 20000 | | | 2400 | 2040 | 4100 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 32 | 5.5 | 65337 | F32TBX/850/A/ECO | 10 | 17000 | 20000 | | | 2400 | 2040 | 5000 | 82 | | * | ▲ | | | |
|  | 42 | 6.4 | 97633 | F42TBX/827/A/ECO | 10 | 17000 | 20000 | | | 3200 | 2690 | 2700 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 42 | 6.4 | 97634 | F42TBX/830/A/ECO | 10 | 17000 | 20000 | | | 3200 | 2690 | 3000 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 42 | 6.4 | 97635 | F42TBX/835/A/ECO | 10 | 17000 | 20000 | | | 3200 | 2690 | 3500 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 42 | 6.4 | 97636 | F42TBX/841/A/ECO | 10 | 17000 | 20000 | | | 3200 | 2690 | 4100 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 42 | 6.4 | 65338 | F42TBX/850/A/ECO | 10 | 17000 | 20000 | | | 3200 | 2690 | 5000 | 82 | | * | ▲ | | | |
| 4-Pin High Output Biax® | | | | | | | | | | | | | | | | | | | |
|  | 57 | 7.1 | 48861 | F57QBX827A4P/EOL | 10 | 17000 | 20000 | | | 4300 | 3700 | 2700 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 57 | 7.1 | 48863 | F57QBX835A4P/EOL | 10 | 17000 | 20000 | | | 4300 | 3700 | 3500 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 57 | 7.1 | 48864 | F57QBX841A/ECO | 10 | 17000 | 20000 | | | 4300 | 3700 | 4100 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 57 | 5.2 | 93404 | F57QBX850A4P/EOL | 10 | 17000 | 20000 | | | 4300 | 3700 | 5000 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
|  | 70 | 8.2 | 48865 | F70QBX827A4P/EOL | 10 | 17000 | 20000 | | | 5200 | 4470 | 2700 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 70 | 8.2 | 48866 | F70QBX830A4P/EOL | 10 | 17000 | 20000 | | | 5200 | 4470 | 3000 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 70 | 8.2 | 48867 | F70QBX835A4P/EOL | 10 | 17000 | 20000 | | | 5200 | 4470 | 3500 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 70 | 8.2 | 48868 | F70QBX841A/ECO | 10 | 17000 | 20000 | | | 5200 | 4470 | 4100 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 70 | 8.2 | 93406 | F70QBX850A4P/EOL | 10 | 17000 | 20000 | | | 5200 | 4470 | 5000 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| 4-Pin 2D® | | | | | | | | | | | | | | | | | | | |
|  | 10 | 3.6 | 21301 | F102D/827/4P | 60 | 10000 | | | | 650 | 545 | 2700 | 82 | | | | | 151 | 1,2,3,6 |
| | 16 | 5.5 | 22169 | F162D/827/4P | 50 | 10000 | | | | 1050 | 880 | 2700 | 82 | | | | | 151 | 1,2,3,6 |
| | 16 | 5.5 | 22177 | F162D/835/4P | 50 | 10000 | | | | 1050 | 880 | 3500 | 82 | | | | | 151 | 1,2,3,6 |
| | 21 | 5.5 | 21303 | F212D/827/4P | 50 | 10000 | | | | 1350 | 1135 | 2700 | 82 | | | | | 151 | 1,2,3,6 |
| | 21 | 5.5 | 22178 | F212D/835/4P | 50 | 10000 | | | | 1350 | 1135 | 3500 | 82 | | | | | 151 | 1,2,3,6 |
| | 28 | 8.1 | 22172 | F282D/827/4P | 20 | 10000 | | | | 2050 | 1720 | 2700 | 82 | | | | | 151 | 1,2,3,6 |
| | 28 | 8.1 | 22180 | F282D/835/4P | 20 | 10000 | | | | 2050 | 1720 | 3500 | 82 | | | | | 151 | 1,2,3,6 |
| | 38 | 8.1 | 21305 | F382D/827/4P | 20 | 10000 | | 9.1 | \$4.58 | 2850 | 2395 | 2700 | 82 | | * | | | 151 | 1,2,3,6 |
| | 38 | 8.1 | 22181 | F382D/835/4P | 20 | 10000 | | | | 2850 | 2395 | 3500 | 82 | | * | | | 151 | 1,2,3,6 |
|  | 55 | 8.1 | 36358 | F552D/830A/T4P/B | 20 | 10000 | | | | 4000 | 3400 | 3000 | 82 | | | | Torchiere Replacement Lamp | 151 | 1,2,3,6 |

Compact Fluorescent Lamps



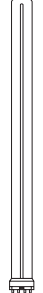
| Base | Watts | Nominal Length (in) | Order Code | Description | Case/Std. Pkg Qty | Volts | Initial Lumens | Mean Lumens | Color Temp K | CRI | Min. Start. Temp (°F) | Power Factor | THD | Rated Life (hrs) | Life In Years | Energy Cost \$/Year | Additional Information | Caution Notice | Footnotes |
|---|-------|---------------------|------------|-------------------|-------------------|-------|----------------|-------------|--------------|-----|-----------------------|--------------|-----|------------------|---------------|----------------------|---------------------------------|----------------|------------------------|
| Self-Ballasted Lamps | | | | | | | | | | | | | | | | | | | |
| Bright From The Start® A Shape | | | | | | | | | | | | | | | | | | | |
|  | 20 | 5.2 | 63504 | FLE20HB21/2/SWCD | 6 | 120 | 1100 | 880 | 2700K | 82 | -15 | 0.5 | <85 | 8000 | 7.3 | \$2.45 | BFTS A-Shape A21 | GE2023-6025 | 19,20,21 |
| Bright From The Start® Decorative Globes | | | | | | | | | | | | | | | | | | | |
|  | 11 | 4.6 | 60310 | FLE11HBG25SW | 6 | 120 | 500 | 400 | 2700K | 82 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.35 | BFTS Decorative Globe G25 | GE2023-6025 | 19,20,21 |
| | 15 | 4.6 | 87432 | FLE15HBG25SW | 6 | 120 | 800 | 640 | 2700K | 82 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.84 | BFTS Decorative Globe G25 | GE2023-6025 | 19,20,21 |
| Reveal® Globes | | | | | | | | | | | | | | | | | | | |
|  | 11 | 4.6 | 61353 | FLEG25XLRVLT6 | 6 | 120 | 450 | 360 | 2490K | 70 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.32 | Reveal® Globe G25 | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 11 | 4.6 | 67464 | FLE11G25XLRVL/BX | 6 | 120 | 450 | 360 | 2490K | 70 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.32 | Reveal® Globe G25 | GE2000-2946 | 19,20,21 |
| Reveal® Reflectors | | | | | | | | | | | | | | | | | | | |
|  | 11 | 4.7 | 61354 | FLE11R20XLRVLT6 | 6 | 120 | 340 | 272 | 2490K | 70 | -10 | 0.5 | <85 | 10000 | 9.1 | \$1.32 | Reveal® Reflector R20 | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 11 | 4.7 | 67463 | FLE11R20XLRVL/BX | 6 | 120 | 340 | 272 | 2490K | 70 | -10 | 0.5 | <85 | 10000 | 9.1 | \$1.32 | Reveal® Reflector R20 | GE2024-7456 | 19,20,21 |
|  | 15 | 5.3 | 61164 | FLE15R30/RVL-TP6 | 6 | 120 | 620 | 496 | 2490K | 70 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.81 | Reveal® Reflector R30 | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 15 | 5.3 | 67461 | FLE15R30/RVL/BX | 4 | 120 | 620 | 496 | 2490K | 70 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.81 | Reveal® Reflector R30 | GE2024-7456 | 19,20,21 |
| | 15 | 5.5 | 63522 | FLE15/DVR30RVLCD | 3 | 120 | 500 | 400 | 2490K | 70 | -5 | 0.5 | <85 | 8000 | 7.3 | \$1.81 | Reveal® Reflector R30 Dimming | GE2025-1509 | 19,21 |
|  | 26 | 6.5 | 61355 | FLE26R40XLRVLT6 | 6 | 120 | 1150 | 920 | 2490K | 70 | -10 | 0.5 | <85 | 10000 | 9.1 | \$3.13 | Reveal® Reflector R40 | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 26 | 6.5 | 89860 | FLE26R40RVLBXT6 | 4 | 120 | 1150 | 920 | 2490K | 70 | -10 | 0.5 | <85 | 10000 | 9.1 | \$3.13 | Reveal® Reflector R40 | GE2024-7456 | 19,20,21 |
| | 26 | 6.6 | 67467 | FLE26R40RVL/BXHH | 4 | 120 | 1100 | 880 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$3.13 | Reveal® Reflector R40 | GE2025-1509 | 19,20,21 |
| | 26 | 6.6 | 66668 | FLE26/DMR40RVLCD | 3 | 120 | 1100 | 880 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$3.13 | Reveal® Reflector R40 Dimming | GE2025-1509 | 19,21 |
| Reveal® Spiral® 3-Way | | | | | | | | | | | | | | | | | | | |
|  | 32 | 6.0 | 67466 | FLE32HTD3RVL/BX | 6 | 120 | 540/1440/1935 | 1548 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$3.85/\$3.01/\$1.93 | Reveal® T3 3-Way | GE2000-0950 | 19,20,21 |
| | 32 | 6.0 | 62908 | FLE32HTD3RVL/CD | 6 | 120 | 540/1440/1935 | 1548 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.93/\$3.01/\$3.85 | Reveal® T3 3-Way Shorter Design | GE2000-0948 | 1,8,9,16,19,20,21,22 |
| Reveal® Spiral® T3 | | | | | | | | | | | | | | | | | | | |
|  | 10 | 4.1 | 75405 | FLE10HT3/2/RVL/CD | 3 | 120 | 450 | 360 | 2490K | 70 | -15 | 0.6 | <85 | 8000 | 7.3 | \$1.20 | Reveal® T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 |
| | 10 | 4.1 | 67451 | FLE10HT3/2RVLBX2 | 6 | 120 | 450 | 360 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.20 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
| | 10 | 4.1 | 75409 | FLE10HT3/2RVLCD2 | 3 | 120 | 450 | 360 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.20 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
| | 10 | 4.1 | 84249 | FLE10HT3/2RVLBX2 | 6 | 120 | 450 | 360 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.20 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
|  | 13 | 4.1 | 75406 | FLE13HT3/2/RVL/CD | 3 | 120 | 800 | 640 | 2490K | 70 | -15 | 0.6 | <85 | 8000 | 7.3 | \$1.57 | Reveal® T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 |
| | 13 | 4.1 | 67452 | FLE13HT3/2RVLBX2 | 6 | 120 | 800 | 640 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.57 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
| | 13 | 4.1 | 62906 | FLE13HT3/2RVLCD2 | 6 | 120 | 800 | 640 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.57 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
| | 13 | 4.1 | 75411 | FLE13HT3/2RVLBX2 | 3 | 120 | 800 | 640 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.57 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
|  | 20 | 4.7 | 75407 | FLE20HT3/2/RVL/CD | 3 | 120 | 1200 | 960 | 2490K | 70 | -15 | 0.6 | <85 | 8000 | 7.3 | \$2.41 | Reveal® T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 |
| | 20 | 4.7 | 84252 | FLE20HT3/2RVLBX2 | 6 | 120 | 1200 | 960 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$2.41 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
| | 20 | 4.7 | 67453 | FLE20HT3/2RVLBX2 | 6 | 120 | 1200 | 960 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$2.41 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
|  | 26 | 5.2 | 75408 | FLE26HT3/2/RVL/CD | 3 | 120 | 1570 | 1256 | 2490K | 70 | -15 | 0.6 | <85 | 8000 | 7.3 | \$3.13 | Reveal® T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 |
| | 26 | 5.2 | 84262 | FLE26HT3/2RVLBX4 | 3 | 120 | 1570 | 1256 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$3.13 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
| | 26 | 5.2 | 67454 | FLE26HT3/2RVLBX2 | 6 | 120 | 1570 | 1256 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$3.13 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
| | 26 | 5.2 | 66354 | FLE26HT3/2RVLBX4 | 3 | 120 | 1570 | 1256 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$3.13 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
| | 26 | 5.2 | 75413 | FLE26HT3/2RVLCD2 | 3 | 120 | 1570 | 1256 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$3.13 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
| | 26 | 5.2 | 84253 | FLE26HT3/2RVLBX2 | 6 | 120 | 1570 | 1256 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$3.13 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
| | 14 | 5.1 | 67465 | FLE14HT3/DMRVLBX | 4 | 120 | 800 | 640 | 2490K | 70 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.69 | Reveal® T3 Spiral® Dimming | GE2000-0951 | 19,21,22 |
| | 26 | 5.7 | 63521 | FLE26HT3/DMRVLCD | 3 | 120 | 1560 | 1248 | 2490K | 70 | -5 | 0.5 | <85 | 10000 | 9.1 | \$3.13 | Reveal® T3 Spiral® Dimming | GE2000-0951 | 19,21,22 |
| | 26 | 5.7 | 67468 | FLE26HT3/DMRVLBX | 4 | 120 | 1560 | 1248 | 2490K | 70 | -5 | 0.5 | <85 | 10000 | 9.1 | \$3.13 | Reveal® T3 Spiral® Dimming | GE2000-0951 | 19,21,22 |
| Reveal® Bright From The Start® A Shape | | | | | | | | | | | | | | | | | | | |
|  | 15 | 4.4 | 67459 | FLE15HB19/2RVLBX | 6 | 120 | 740 | 592 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.84 | Reveal BFTS A shape A19 | GE2023-6025 | 19,20,21 |
| | 19 | 5.2 | 63509 | FLE19HB21/2RVLCD | 6 | 120 | 950 | 760 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$2.33 | Reveal BFTS A shape A21 | GE2023-6025 | 19,20,21 |
| | 25 | 5.8 | 95143 | FLE25HBA23RVLWB | 6 | 120 | 1375 | 1100 | 2490K | 70 | -15 | 0.5 | <85 | 6000 | 5.5 | \$3.07 | Reveal BFTS A shape A23 | GE2023-6025 | 19,20,21 |
| | 25 | 5.8 | 87461 | FLE25HBA23RVLCD | 6 | 120 | 1375 | 1100 | 2490K | 70 | -15 | 0.5 | <85 | 6000 | 5.5 | \$3.07 | Reveal BFTS A shape A23 | GE2023-6025 | 19,20,21 |

Compact Fluorescent Lamps

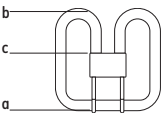
| Base | Watts | Nominal Length (in) | Order Code | Description | Case/Std. Pkg Qty | Volts | Initial Lumens | Mean Lumens | Color Temp K | CRI | Min. Start. Temp (°F) | Power Factor | THD | Rated Life (hrs) | Life In Years | Energy Cost \$/Year | Additional Information | Caution Notice | Footnotes | |
|---|---|---------------------|------------|--------------------|-------------------|-------|----------------|-------------|--------------|-------|-----------------------|--------------|-----|------------------|---------------|------------------------------|------------------------|----------------|---------------------------|------------------------|
| Self-Ballasted Lamps (continued) | | | | | | | | | | | | | | | | | | | | |
| Spiral® T3 (continued) | | | | | | | | | | | | | | | | | | | | |
|  | 20 | 4.4 | 71284 | FLE20HT3/2/SW6PK | 6 | 120 | 1300 | 1040 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$2.41 | T3 Spiral® | GE2000-2709 | 19,20,21,22,25 | |
| | 20 | 4.4 | 65672 | FLE20HT3/2/SW/BX4 | 3 | 120 | 1300 | 1040 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$2.41 | T3 Spiral® | GE2000-2709 | 19,20,21,22,25 | |
| | 20 | 4.4 | 74200 | FLE20HT3/2/SW/BX | 10 | 120 | 1300 | 1040 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$2.41 | T3 Spiral® | GE2000-2709 | 19,20,21,22,25 | |
| | 20 | 4.4 | 76993 | FLE20HT3/2/CB/BX | 10 | 120 | 1300 | 1040 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$2.41 | T3 Spiral® | GE2000-2709 | 19,20,21,22,25 | |
| | 20 | 4.4 | 97249 | FLE20HT3/2/SW5PK | 5 | 120 | 1300 | 1040 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$2.41 | T3 Spiral® | GE2000-2709 | 19,20,21,22,25 | |
| | 20 | 4.4 | 97690 | FLE20HT3/2/SWBX3 | 4 | 120 | 1300 | 1040 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$2.41 | T3 Spiral® | GE2000-2709 | 19,20,21,22,25 | |
| | 20 | 4.4 | 49587 | FLE20HT3/2/SWCD3PK | 3 | 120 | 1300 | 1040 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$2.41 | T3 Spiral® | GE2000-2709 | 19,20,21,22,25 | |
|  | 20 | 4.4 | 64006 | FLE20HT3/2/DBX2/6 | 6 | 120 | 1300 | 1040 | 5000K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$2.41 | T3 Spiral® | GE2000-2709 | 19,20,21,22,25 | |
| | Med | 23 | 5.1 | 80889 | FLE23HT3/2/XL827 | 10 | 120 | 1600 | 1280 | 2700K | 80 | -15 | 0.6 | <85 | 12000 | 11.0 | \$2.77 | T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 |
| | 23 | 4.7 | 42164 | FLE23HT3/2/827 | 10 | 120 | 1650 | 1320 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$2.77 | T3 Spiral® | GE2000-0948 | 1,7,8,9,11,19,20,21,22 | |
| | 23 | 4.8 | 15517 | FLE23HT3/2/SW/CD | 12 | 120 | 1600 | 1280 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$2.77 | T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | |
| | 23 | 4.8 | 94546 | FLE23HT3/2/841 | 10 | 120 | 1600 | 1280 | 4000K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$2.77 | T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | |
|  | 26 | 4.7 | 80890 | FLE26HT3/2/XL827 | 10 | 120 | 1700 | 1360 | 2700K | 80 | -15 | 0.6 | <85 | 12000 | 11.0 | \$3.13 | T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | |
| Spiral® T3 Dimming | | | | | | | | | | | | | | | | | | | | |
|  | 14 | 5.0 | 66662 | FLE14HT3/2DM/BX | 3 | 120 | 950 | 760 | 2700K | 82 | -10 | 0.5 | <85 | 10000 | 9.1 | \$1.69 | T3 Spiral® Dimming | GE2000-0951 | 19,21,22,25 | |
| | 26 | 5.7 | 66663 | FLE26HT3/2DM/BX | 3 | 120 | 1700 | 1360 | 2700K | 82 | -10 | 0.5 | <85 | 10000 | 9.1 | \$3.13 | T3 Spiral® Dimming | GE2010-9353 | 19,21,22,24 | |
| Spiral® T4 and T5 Hi Lumen | | | | | | | | | | | | | | | | | | | | |
|  | 29 | 5.2 | 81514 | FLE29HLX/2XL/827 | 10 | 120 | 2200 | 1760 | 2700K | 80 | -15 | 0.6 | <85 | 12000 | 11.0 | \$3.49 | T4 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | |
| | 32 | 6.3 | 24684 | FLE32HLX/2/SW/BX | 12 | 120 | 2100 | 1680 | 2700K | 80 | -15 | 0.5 | <85 | 8000 | 7.3 | \$3.85 | T4 Spiral® | GE2000-2709 | 19,20,21,22 | |
| | 42 | 7.0 | 80891 | FLE42HLX/2/XL827 | 10 | 120 | 2730 | 2184 | 2700K | 82 | -15 | 0.6 | <85 | 12000 | 11.0 | \$5.06 | T4 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22,25 | |
| | 42 | 7.0 | 97728 | FLE42HLX/2/SW/BX | 4 | 120 | 2730 | 2184 | 2700K | 82 | -15 | 0.5 | <85 | 12000 | 11.0 | \$5.06 | T4 Spiral® | GE2000-2709 | 19,20,21,22,25 | |
| | 55 | 5.5 | 78965 | FLE55HT5/2/SW/BX | 4 | 120 | 3800 | 3040 | 2700K | 82 | -15 | 0.6 | <85 | 8000 | 7.3 | \$6.62 | T5 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | |
| Spiral® 3-Way | | | | | | | | | | | | | | | | | | | | |
|  | 26 | 5.7 | 77123 | FLE26HT3/2D/3BX | 6 | 120 | 1750/1150/600 | 1400 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.57/ \$2.29/ \$3.13 | T3 Spiral®, 3-way | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | |
| | 26 | 5.7 | 77124 | FLE26HT3/2D/3CD | 3 | 120 | 1750/1150/600 | 1400 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.57/ \$2.29/ \$3.13 | T3 Spiral®, 3-way | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | |
|  | 32 | 5.8 | 78952 | FLE32HT3/2D/3BX | 6 | 120 | 600/1600/2150 | 1720 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.93/ \$3.01/ \$3.85 | T3 Spiral®, 3-way | GE2000-0948 | 1,8,9,16,19,20,21,22,25 | |
| | 32 | 6.0 | 62070 | FLE32HT3/2D/3CWXB | 6 | 120 | 600/1600/2150 | 1720 | 4000K | 82 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.93/ \$3.01/ \$3.85 | T3 Spiral®, 3-way | GE2000-0948 | 1,7,9,10,19,20,21,22 | |
| | 32 | 6.0 | 63517 | FLE32HT3/2D/3DBX | 6 | 120 | 540/1440/1935 | 1548 | 6500K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.93/ \$3.01/ \$3.85 | T3 Spiral®, 3-way | GE2000-0950 | 19,20,21,22 | |
| | 32 | 5.8 | 63482 | FLE32HT3/2D/3CD | 6 | 120 | 600/1600/2150 | 1720 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.93/ \$3.01/ \$3.85 | T3 Spiral®, 3-way | GE2000-0950 | 19,20,21,25 | |
| Spiral® GU 24 | | | | | | | | | | | | | | | | | | | | |
|  | 10 | 3.5 | 76135 | FLE10HT3/2GU24CD | 3 | 120 | 550 | 440 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.20 | T3 GU 24 Base | GE2000-0948 | 1,8,9,10,19,20,21,22 | |
| | 15 | 4.1 | 75367 | FLE15HT3/2GU24CD | 3 | 120 | 1000 | 800 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.81 | T3 GU 24 Base | GE2000-0948 | 1,8,9,10,19,20,21,22 | |
| | 20 | 4.1 | 76136 | FLE20HT3/2GU24CD | 3 | 120 | 1200 | 960 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$2.41 | T3 GU 24 Base | GE2000-0948 | 1,8,9,10,19,20,21,22 | |
| | 26 | 4.6 | 76137 | FLE26HT3/2GU24CD | 3 | 120 | 1750 | 1400 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$3.13 | T3 GU 24 Base | GE2000-0948 | 1,8,9,10,19,20,21,22 | |
| Reflectors/Indoor PAR | | | | | | | | | | | | | | | | | | | | |
|  | 26 | 6.6 | 66667 | FLE26PAR38DM/BX | 3 | 120 | 1300 | 1040 | 2700K | 82 | -15 | 0.5 | <85 | 8000 | 7.3 | \$3.13 | PAR38 Dimming | GE2025-1509 | 19,21,23 | |
| | 11 | 4.2 | 78948 | FLE11/2/R20/D/CD | 3 | 120 | 370 | 296 | 6500K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | Reflector R20 | GE2000-2946 | 1,8,9,10,12,19,20,21 | |
| | 11 | 4.7 | 80892 | FLE11/2/R20XL827 | 10 | 120 | 400 | 320 | 2700K | 80 | -10 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | Reflector R20 | GE2000-2946 | 1,8,9,10,12,19,20,21 | |
| | 11 | 4.7 | 47477 | FLE11/2/R20XLCD | 12 | 120 | 400 | 320 | 2700K | 80 | -10 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | Reflector R20 | GE2000-2946 | 1,8,9,10,12,19,20,21 | |
| | 11 | 4.7 | 24691 | FLE11/2/R20XLSWCD | 3 | 120 | 400 | 320 | 2700K | 80 | -10 | 0.5 | <85 | 10000 | 9.1 | \$1.32 | Reflector R20 | GE2024-7456 | 19,20,21 | |
| | 11 | 4.7 | 85278 | FLE11/2/R20SW/BX | 6 | 120 | 400 | 320 | 2700K | 80 | -10 | 0.5 | <85 | 10000 | 9.1 | \$1.32 | Reflector R20 | GE2024-7456 | 19,20,21 | |
| | 11 | 4.7 | 76131 | FLE11/2/R20XL2P | 3 | 120 | 400 | 320 | 2700K | 80 | -10 | 0.5 | <85 | 10000 | 9.1 | \$1.32 | Reflector R20 | GE2024-7456 | 19,20,21 | |
| | 11 | 4.2 | 85279 | FLE11/2/R20D/BX | 6 | 120 | 370 | 296 | 6500K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.32 | Reflector R20 | GE2000-2946 | 19,20,21 | |
| |  | 15 | 5.3 | 78950 | FLE15/2/R30/D/CD | 3 | 120 | 650 | 520 | 6500K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.81 | Reflector R30 | GE2000-2946 | 1,8,9,10,12,19,20,21 |
| | | 16 | 5.3 | 20708 | FLE15/2/R30/SWCD | 12 | 120 | 750 | 600 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.93 | Reflector R30 | GE2024-7456 | 1,8,9,10,12,19,20,21 |
| | | 16 | 5.3 | 80893 | FLE16/2/R30XL827 | 10 | 120 | 750 | 600 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.93 | Reflector R30 | GE2000-2946 | 1,8,9,10,12,19,20,21 |
| 16 | | 5.3 | 47478 | FLE16/2/R30XLCD | 12 | 120 | 750 | 600 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.93 | Reflector R30 | GE2000-2946 | 1,8,9,10,12,19,20,21 | |

| Base | Watts | Nominal Length (in) | Order Code | Description | Case/Std. Pkg Qty | Volts | Initial Lumens | Mean Lumens | Color Temp K | CRI | Min. Start. Temp (°F) | Power Factor | THD | Rated Life (hrs) | Life In Years | Energy Cost \$/Year | Additional Information | Caution Notice | Footnotes |
|---|-------|---------------------|------------|--------------------------------------|-------------------|-------|----------------|-------------|--------------|-----|-----------------------|--------------|-----|------------------|---------------|---------------------|-----------------------------------|----------------|----------------------|
| Self-Ballasted Lamps (continued) | | | | | | | | | | | | | | | | | | | |
| Reflectors/Indoor PAR (continued) | | | | | | | | | | | | | | | | | | | |
|  | 16 | 5.3 | 72984 | FLE16/2/R30/2P | 3 | 120 | 750 | 600 | 2700K | 80 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.93 | Reflector R30 | GE2024-7456 | 19,20,21 |
| | 15 | 5.5 | 66664 | FLE15/2DMR30/BX | 3 | 120 | 550 | 440 | 3000K | 82 | -5 | 0.5 | <85 | 8000 | 7.3 | \$1.81 | Reflector R30 Dimming | GE2025-1509 | 19,21 |
| Outdoor | | | | | | | | | | | | | | | | | | | |
|  | 14 | 5.1 | 49894 | FLE14/2TC14SWCD FLE14/2TC16SW/CD | 3 | 120 | 750 | 600 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.69 | Post Light | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 14 | 4.9 | 49895 | FLE11/2TC14BUGCD FLE14/2TC16BUGCD | 3 | 120 | 750 | 600 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.69 | Bug Yellow Post Light | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 14 | 4.9 | 47464 | FLE14/2TC16/BUG | 12 | 120 | 750 | 600 | 2700K | 80 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.69 | Bug Yellow Post Light | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 14 | 5.1 | 85384 | FLE14/2TC16SWCD | 12 | 120 | 750 | 600 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.69 | Bullet Shape | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 24 | 5.4 | 78964 | FLE24/2PAR38FLCD | 3 | 120 | 1185 | 948 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$2.89 | Par 38 Flat Lens | GE2010-3449 | 1,8,9,12,16,19,20,21 |
|  | 26 | 5.9 | 21739 | FLE26/2PAR38/CD | 3 | 120 | 1300 | 1040 | 2700K | 80 | -10 | 0.6 | <85 | 10000 | 9.1 | \$3.13 | Par 38 Glass Reflector | GE2010-3449 | 1,8,9,12,16,19,20,21 |
| | 26 | 5.9 | 80895 | FLE26/2PAR38/XL | 6 | 120 | 1300 | 1040 | 2700K | 80 | -10 | 0.6 | <85 | 10000 | 9.1 | \$3.13 | Par 38 Glass Reflector | GE2010-3449 | 1,8,9,12,16,19,20,21 |
| | 26 | 5.9 | 47483 | FLE26/2PAR38XCD | 3 | 120 | 1300 | 1040 | 2700K | 80 | -10 | 0.6 | <85 | 10000 | 9.1 | \$3.13 | Par 38 Glass Reflector | GE2010-3449 | 1,8,9,12,16,19,20,21 |
| | 26 | 5.9 | 82004 | FLE26/2PAR38/BX | 6 | 120 | 1300 | 1040 | 2700K | 80 | -10 | 0.5 | <85 | 10000 | 9.1 | \$3.13 | Par 38 Glass Reflector | GE2010-3449 | 19,20,21,23 |
| | 26 | 5.9 | 73157 | FLE26/2PAR382P | 3 | 120 | 1300 | 1040 | 2700K | 80 | -10 | 0.5 | <85 | 10000 | 9.1 | \$3.13 | Par 38 Glass Reflector | GE2010-3449 | 19,20,21,23 |
| Decorative Ceiling Fan Medium Base | | | | | | | | | | | | | | | | | | | |
|  | 11 | 4.4 | 78939 | FLE11/2/A17/D/CD | 3 | 120 | 460 | 368 | 6500K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | A-Line Shape A17 | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 11 | 4.4 | 78940 | FLE11/2/A17/D/3P | 3 | 120 | 460 | 368 | 6500K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | A-Line Shape A17 | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 11 | 4.4 | 47486 | FLE11/2/A17XL/CD | 12 | 120 | 500 | 400 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | A-Line Shape A17 | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 11 | 4.4 | 49687 | FLE11/2/A17XL2PK | 3 | 120 | 500 | 400 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.32 | A-Line Shape A17 | GE2000-2946 | 19,20,21 |
| Decorative Ceiling Fan Candelabra Base | | | | | | | | | | | | | | | | | | | |
| Cand | 11 | 4.4 | 78937 | FLE11/2/A17CB/CD | 3 | 120 | 500 | 400 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | A-Line Shape A17, Candelabra Base | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 11 | 4.4 | 78938 | FLE11/2/A17CB/3P | 3 | 120 | 500 | 400 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | A-Line Shape A17, Candelabra Base | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 11 | 4.3 | 78941 | FLE11/2/A17CBD/CD | 3 | 120 | 460 | 368 | 6500K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | A-Line Shape A17, Candelabra Base | GE2000-2946 | 1,8,10,12,19,20,21 |
| Decorative A Shapes | | | | | | | | | | | | | | | | | | | |
|  | 11 | 4.1 | 89622 | FLE11/2/A19XL | 10 | 120 | 500 | 400 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | A-Line Shape A19 | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 15 | 4.5 | 89632 | FLE15/2/A19XL | 10 | 120 | 825 | 660 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.81 | A-Line Shape A19 | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 20 | 5.6 | 89634 | FLE20/2/A19XL | 10 | 120 | 1100 | 880 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$2.41 | A-Line Shape A19 | GE2024-7456 | 1,8,10,12,19,20,21 |
| | 15 | 4.8 | 47487 | FLE15/2/A21XL/CD | 12 | 120 | 800 | 640 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.81 | A-Line Shape A21 | GE2000-2946 | 1,8,10,12,19,20,21 |
| Decorative Bullet | | | | | | | | | | | | | | | | | | | |
| Med | 20 | 5.3 | 89635 | FLE20/2/T19XL | 10 | 120 | 1100 | 880 | 2700K | 82 | -15 | 0.6 | <85 | 8000 | 7.3 | \$2.41 | Bullet Shape | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 26 | 5.9 | 89636 | FLE26/2/T21XL | 10 | 120 | 1350 | 1080 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$3.13 | Bullet Shape | GE2000-2946 | 1,8,10,12,19,20,21 |
| Decorative Candle Candelabra Base | | | | | | | | | | | | | | | | | | | |
|  | 9 | 5.5 | 85388 | FLE9/2/CAC/SW/CD | 12 | 120 | 400 | 320 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.08 | Candle Shape, Candelabra Base | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 9 | 5.5 | 16105 | FLE9/2/CAC/XL/B27 | 10 | 120 | 400 | 320 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.08 | Candle Shape, Candelabra Base | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 9 | 4.3 | 60299 | FLE9/3/CAC/SWBX3 | 4 | 120 | 380 | 304 | 2700K | 82 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.08 | Candle Shape, Candelabra Base | GE2000-2946 | 19,20,21 |
| | 9 | 4.3 | 60295 | FLE9/3/CAC/SSBX3 | 4 | 120 | 380 | 304 | 5000K | 82 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.08 | Candle Shape, Candelabra Base | GE2000-2946 | 19,20,21 |
| | 14 | 5.2 | 60300 | FLE14/3/CAC/SWBX3 | 4 | 120 | 650 | 520 | 2700K | 82 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.69 | Candle Shape, Candelabra Base | GE2000-2946 | 19,20,21 |
| | 14 | 5.2 | 60296 | FLE14/3/CAC/SSBX3 | 4 | 120 | 650 | 520 | 5000K | 82 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.69 | Candle Shape, Candelabra Base | GE2000-2946 | 19,20,21 |
| | 14 | 5.2 | 60297 | FLE14/3/CAC/XL/B27 | 10 | 120 | 650 | 520 | 2700K | 82 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.69 | Candle Shape, Candelabra Base | GE2000-2946 | 19,20,21 |
| Decorative Candle Medium Base | | | | | | | | | | | | | | | | | | | |
|  | 9 | 5.4 | 47488 | FLE9/2/CAM/XL/CD | 12 | 120 | 430 | 344 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.08 | Candle Shape, Med Base | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 9 | 4.8 | 60297 | FLE9/3/CAM/SWBX3 | 4 | 120 | 380 | 304 | 2700K | 82 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.08 | Candle Shape, Med Base | GE2000-2946 | 19,20,21 |
| | 9 | 4.8 | 60292 | FLE9/3/CAM/SSBX3 | 4 | 120 | 380 | 304 | 5000K | 82 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.08 | Candle Shape, Med Base | GE2000-2946 | 19,20,21 |
| | 9 | 5.4 | 24692 | FLE9/2/CAM/SW/CD | 12 | 120 | 430 | 344 | 2700K | 82 | -15 | 0.5 | <85 | 6000 | 5.5 | \$1.08 | Candle Shape, Med Base | GE2000-2946 | 19,20,21 |
| | 9 | 5.5 | 79068 | FLE9/2/CAC/XL2PK | 3 | 120 | 430 | 344 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.08 | Candle Shape, Med Base | GE2000-2946 | 19,20,21 |
| | 14 | 5.4 | 60298 | FLE14/3/CAM/SWBX3 | 4 | 120 | 650 | 520 | 2700K | 82 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.69 | Candle Shape, Med Base | GE2000-2946 | 19,20,21 |
| | 14 | 5.4 | 60294 | FLE14/3/CAM/SSBX3 | 4 | 120 | 650 | 520 | 5000K | 82 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.69 | Candle Shape, Med Base | GE2000-2946 | 19,20,21 |
| | 14 | 5.4 | 60299 | FLE14/3/CAM/XL/CD | 12 | 120 | 650 | 520 | 2700K | 82 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.69 | Candle Shape, Med Base | GE2000-2946 | 19,20,21 |

Compact Fluorescent Lamps

| Base | Watts | Nominal Length (in) | Order Code | Description | Case/Std. Pkg Qty | Volts | Initial Lumens | Mean Lumens | Color Temp K | CRI | Min. Start. Temp (°F) | Power Factor | THD | Rated Life (hrs) | Life In Years | Energy Cost \$/Year | Additional Information | Caution Notice | Footnotes | | |
|--|-------|---------------------|------------|-------------|-------------------|-------|----------------|-------------|--------------|-------|-----------------------|--------------|-----|------------------|---------------|---------------------|------------------------|--|--|--------------------|--|
| Self-Ballasted Lamps (continued) | | | | | | | | | | | | | | | | | | | | | |
| Decorative Globes | | | | | | | | | | | | | | | | | | | | | |
|  | Med | 9 | 3.2 | 74587 | FLE9/3/G18/3PK | 3 | 120 | 360 | 288 | 2700K | 80 | 0 | 0.5 | <85 | 8000 | 7.3 | \$1.08 | Globe G18 | GE2000-2946 | 19,20,21 | |
| | | 9 | 3.2 | 74586 | FLE9/3/G18/CD | 3 | 120 | 360 | 288 | 2700K | 80 | 0 | 0.5 | <85 | 8000 | 7.3 | \$1.08 | Globe G18 | GE2000-2946 | 19,20,21 | |
| | | 11 | 4.6 | 89629 | FLE11/2/G25XL | 10 | 120 | 500 | 400 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | Globe G25 | GE2000-2946 | 1,8,10,12,19,20,21 | |
| | | 11 | 4.6 | 47484 | FLE11/2/G25XL/CD | 12 | 120 | 500 | 400 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | Globe G25 | GE2000-2946 | 1,8,10,12,19,20,21 | |
| | | 11 | 4.6 | 78946 | FLE11/2/G25/D/CD | 3 | 120 | 450 | 360 | 6500K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | Globe G25 | GE2000-2946 | 1,8,10,12,19,20,21 | |
| | | 11 | 4.6 | 78947 | FLE11/2/G25/D/3P | 3 | 120 | 450 | 360 | 6500K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | Globe G25 | GE2000-2946 | 1,8,10,12,19,20,21 | |
| | | 11 | 4.6 | 85392 | FLE11/2/G25XL3PK | 3 | 120 | 500 | 400 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.32 | Globe G25 | GE2000-2946 | 19,20,21 | |
| | | 11 | 4.6 | 89096 | FLE11/2/G25XL2PK | 3 | 120 | 500 | 400 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.32 | Globe G25 | GE2000-2946 | 19,20,21 | |
| Specialty | | | | | | | | | | | | | | | | | | | | | |
| Colored Spiral® | | | | | | | | | | | | | | | | | | | | | |
|  | Med | 13 | 4.9 | 78957 | FLE13HT3/2/BL | 6 | 120 | NA | NA | NA | NA | 5 | 0.6 | <85 | 8000 | 7.3 | \$1.57 | T3, Blacklight, Boxed | GE2000-0948 | 1,8,9,10 | |
| | | 13 | 4.9 | 78958 | FLE13HT3/2/ORANGE | 6 | 120 | NA | NA | NA | NA | 5 | 0.6 | <85 | 8000 | 7.3 | \$1.57 | T3, Orange, Boxed | GE2000-0948 | 1,8,9,10 | |
| | | 13 | 4.9 | 78959 | FLE13HT3/2/YELLOW | 6 | 120 | NA | NA | NA | NA | 5 | 0.6 | <85 | 8000 | 7.3 | \$1.57 | T3, Yellow, Boxed | GE2000-0948 | 1,8,9,10 | |
| Film and TV Lighting HLBX 4-Pin | | | | | | | | | | | | | | | | | | | | | |
|  | 2G11 | 55 | 20.7 | 41873 | F55BX/STUDIOBX56 | 40 | | 4100 | | 5600 | 89 | | | | | | | High color rendering. Ideal for TV studios, live broadcasts. Color tuned to match tungsten and daylight light sources. | | | |
| | | 55 | 20.7 | 41903 | F55BX/CINPLUS/32 | 40 | | 2400 | | 3200 | 92 | | | | | | | | High color rendering. Soft light used in film applications. GEL free light source. Matches the color spectrum of film. LB and CC +/-5. | | |
| | | 55 | 20.7 | 41911 | F55BX/CINPLUS/55 | 40 | | 2400 | | 5500 | 95 | | | | | | | | High color rendering. Soft light used in film applications. GEL free light source. Matches the color spectrum of film. LB and CC +/-5. | | |

Footnotes

- 1 Fluorescent lamp lumens decline during life.
- 2 Based on 60Hz reference circuit.
- 3  10-watt, 16-watt and 28-watt 2D® lamps may be operated in any position. 21-watt, 38-watt, 39-watt and 55-watt 2D® lamps must be used with the leg marked (a) in the diagram below the bend (b), in order to avoid overheating the end of the cap marked (c).
- 4 Life ratings for the F18BX preheat lamps are based on operating the lamp at 3 hrs. per start on a preheat type circuit. Operation on rapid start and instant start ballasts is not recommended.
- 5 Cold cathode resistance is approximately 6.0 Ohms.
- 6 4-Pin lamp minimum starting temperature is a function of the ballast. Most ballasts are rated with a minimum starting temperature of 50°F (10°C). Ballasts are also available that provide reliable starting to 0°F (-18°C) and -20°F (-29°C).
- 7 Most one-piece self-ballasted lamps for incandescent sockets and plug-in lamps with screw-in adapters do not work with clip-on shades.
- 8 Lumens on one-piece self-ballasted lamp systems are measured base up.
- 9 Best performance if operated base up and at 77°F (25°C) ambient temperature.
- 10 Use only on 120V, 60Hz circuits. Do not use on dimming circuits, photocells or timers. Do not use in wet locations.
- 11 Adapters rated at 40,000 hours life.
- 12 Amalgam products experience stable brightness over a wider temperature range and in various operating positions.
- 13 Life ratings are based on operating the lamp at 3 hrs. per start on a rapid start type ballast. Life rating on a preheat or instant start ballast is 25% lower.
- 14 Use only on 120V, 60Hz circuits. Do not use on with photocells or timers. Do not use in wet locations.
- 15 These lamps are only recommended for use with single-lamp ballasts or parallel-wired 2-lamp ballasts.
- 16 UL Listed for wet locations. Use only on 120V, 60Hz circuits. Do not use on dimming circuits, photocells or timers.
- 17 Max. bulb wall temperature not to exceed 180°C. Consult GE sales representative for further information.
- 18 Life ratings are based on operating the lamp on a high frequency electronic rapid start type ballast.
- 19 This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz. Not intended for use with emergency exit fixtures or lights.
Use only on 120V 60 Hz circuits.
When using CFL with motion sensor, preset "on" time on the device as long as possible to avoid frequent switching. (Otherwise lamp life will be decreased significantly)
- 20 Not intended for use with dimmers. Some electronic timer and photosensor devices contain dimming circuitry, so before using them, check with its manufacturer to ensure compatibility with CFL bulbs.

21 RISK OF ELECTRICK SHOCK

DO NOT USE WHERE DIRECTLY EXPOSED TO WATER

Do not open - no user serviceable parts inside

22 Lamp may shatter and cause injury if broken

Remove and install by grasping only plastic portion of the lamp

23 SUITABLE FOR WET LOCATION

24 SUITABLE FOR USE IN ENCLOSED LUMINAIRES

25 NOT FOR USE IN ENCLOSED FIXTURE

Caution Notices

151

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

GE2000-0948

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open—no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixture or lights, electronic timers, photocells, or with dimmers

GE2000-0950

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open—no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz. Not intended for use with emergency exit fixtures or lights, or with dimmers. Not for use in enclosed fixtures.

GE2000-0951

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open—no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz. Not intended for use with emergency exit fixtures or lights, or with dimmers. Not for use in enclosed fixtures.

Compact Fluorescent Lamps

Caution Notices (continued)

GE2000-2709

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz. Not intended for use with emergency exit fixtures or lights, or with dimmers. Not for use in enclosed fixtures.

GE2000-2946

⚠ CAUTION

Risk of electric shock

- Do not open—no user serviceable parts inside
- Do not use where directly exposed to water or outdoors without an enclosed fixture

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, or with dimmers.

GE2010-3449

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open—no user serviceable parts inside
- Use indoors only

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, in totally enclosed recessed fixtures, or with dimmers. Added weight may cause instability of free-standing portable lamps. Use only with portable lamps in which the distance from the bottom of the base to the top of the lamp holder does not exceed three times the base width. Use only with portable lamps which are provided with lamp shades.

GE2010-9353

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz. Not intended for use with emergency exit fixtures or lights, or with dimmers. Not for use in enclosed fixtures.

GE2023-6025

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz. Not intended for use with emergency exit fixtures or lights, or with dimmers. Not for use in enclosed fixtures.

GE2024-7455

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz. Not intended for use with emergency exit fixtures or lights, or with dimmers.

GE2024-7456

⚠ CAUTION

Risk of electric shock

- Do not open—no user serviceable parts inside
- Do not use where directly exposed to water or outdoors without an enclosed fixture

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, dimmers, or in totally enclosed recessed fixtures.

GE2025-1509

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz. Not intended for use with emergency exit fixtures or lights. Performance ratings are based on base up orientation.

Do not operate this product in ambient temperatures exceeding xx°C

Cross-Reference

| GE Description | GE Product Code | Generic Description | Osram/Sylvania Description | Philips Description |
|--------------------------------|-----------------|---|----------------------------|----------------------------|
| Order This GE Lamp | | If you currently use these lamps | | |
| Low Wattage Biax® 2-Pin | | | | |
| F58X/827/ECO | 97551 | CFT5W/G23/827 | CF5DS/827/ECO | PL-S 5W/827/2P/Alto |
| F58X/841/ECO | 97553 | CFT5W/G23/841 | CF5DS/841/ECO | PL-S 5W/841/2P/Alto |
| F78X/827/ECO | 97554 | CFT7W/G23/827 | CF7DS/827/ECO | PL-S 7W/827/2P/Alto |
| F78X/835/ECO | 97556 | CFT7W/G23/835 | CF7DS/835/ECO | PL-S 7W/835/2P/Alto |
| F78X/841/ECO | 97557 | CFT7W/G23/841 | CF7DS/841/ECO | PL-S 7W/841/2P/Alto |
| F98X/827/ECO | 97558 | CFT9W/G23/827 | CF9DS/827/ECO | PL-S 9W/827/2P/Alto |
| F98X/835/ECO | 97560 | CFT9W/G23/835 | CF9DS/835/ECO | PL-S 9W/835/2P/Alto |
| F98X/841/ECO | 97561 | CFT9W/G23/841 | CF9DS/841/ECO | PL-S 9W/841/2P/Alto |
| F138X/827/ECO | 97573 | CF13W/GX23/827 | CF13DS/827/ECO | PL-S 13W/827/2P/Alto |
| F138X/830/ECO | 97574 | CF13W/GX23/830 | CF13DS/830/ECO | PL-S 13W/830/2P/Alto |
| F138X/835/ECO | 97569 | CF13W/GX23/835 | CF13DS/835/ECO | PL-S 13W/835/2P/Alto |
| F138X/841/ECO | 97571 | CF13W/GX23/841 | CF13DS/841/ECO | PL-S 13W/841/2P/Alto |
| F138X/850/ECO | 97572 | CF13W/GX23/850 | CF13DS/850/ECO | PL-S 13W/850/2P/Alto |
| F138X/E/830/ECO | 97563 | CF13W/GX23/830 | CF13WDS/EC/830/ECO | — |
| High Lumen Biax® 4-Pin | | | | |
| F188X/SPX30 | 16649 | FT18W/2G11/830 | FT18DL/830 | PL-L 18W/830 |
| F188X/SPX35 | 16053 | FT18W/2G11/835 | FT18DL/835 | PL-L 18W/835 |
| F188X/SPX41 | 16940 | FT18W/2G11/841 | FT18DL/841 | PL-L 18W/841 |
| F188X/SPX30/RS | 17174 | FT18W/2G11/RS/830 | FT18DL/830/RS | — |
| F188X/SPX35/RS | 17175 | FT18W/2G11/RS/835 | FT18DL/835/RS | — |
| F188X/SPX65/RS | 12521 | FT18W/2G11/RS/865 | — | — |
| F278X/SPX30/RS | 16944 | FT24W/2G11/830 | FT24DL/830 | PL-L 24W/830 |
| F278X/SPX35/RS | 16948 | FT24W/2G11/835 | FT24DL/835 | PL-L 24W/835 |
| F278X/SPX41/RS | 16951 | FT24W/2G11/841 | FT24DL/841 | PL-L 24W/841 |
| F398X/SPX30/RS | 16538 | FT36W/2G11/830 | FT36DL/830 | PL-L 36W/830 |
| F398X/SPX35/RS | 15867 | FT36W/2G11/835 | FT36DL/835 | PL-L 36W/835 |
| F398X/SPX41/RS | 16952 | FT36W/2G11/841 | FT36DL/841 | PL-L 36W/841 |
| F40/25/BX830/IS/W/M | 75399 | FT40W/2G11/IS/830 | F40DL/28W/830/SS/IS/ECO | PL-L 40W/830/XEW/4P/IS 25W |
| F40/25/BX835/IS/W/M | 75400 | FT40W/2G11/IS/835 | F40DL/28W/835/SS/IS/ECO | PL-L 40W/835/XEW/4P/IS 25W |
| F40/25/BX841/IS/W/M | 75401 | FT40W/2G11/IS/841 | F40DL/28W/841/SS/IS/ECO | PL-L 40W/841/XEW/4P/IS 25W |
| F40/25/BX850/IS/W/M | 75402 | FT40W/2G11/IS/850 | — | — |
| F40/308X/SPX30 | 16953 | FT40W/2G11/RS/830 | FT40DL/830/RS | PL-L 40W/830/RS/IS |
| F40/308X/SPX35 | 16648 | FT40W/2G11/RS/835 | FT40DL/835/RS | PL-L 40W/835/RS/IS |
| F40/308X/SPX41 | 16954 | FT40W/2G11/RS/841 | FT40DL/841/RS | PL-L 40W/841/RS/IS |
| F40/308X/SPX50/RS | 10490 | FT40W/2G11/RS/850 | FT40DL/850/RS | — |
| F508XSPX30RS | 20898 | FT50W/2G11/RS/830 | — | PL-L 50W/830/RS |
| F508XSPX35RS | 20899 | FT50W/2G11/RS/835 | — | PL-L 50W/835/RS |
| F508XSPX41RS | 20900 | FT50W/2G11/RS/841 | — | PL-L 50W/841/RS |
| F558X/830 | 31951 | FT55W/2G11/RS/830 | FT55DL/830 | — |
| F558X/835 | 31952 | FT55W/2G11/RS/835 | FT55DL/835 | — |
| F558X/841 | 31953 | FT55W/2G11/RS/841 | FT55DL/841 | — |
| Double Biax® 2-Pin | | | | |
| F9DBX23/827/ECO | 97576 | CFQ9W/G23/827 | CF9DD/827 | — |
| F9DBX23/841/ECO | 97575 | CFQ9W/G23/841 | — | — |
| F13DBX23/827/ECO | 97586 | CFQ13W/GX23/827 | CF13DD/827 | PL-C 13W/827/USA/Alto |
| F13DBX23/830/ECO | 97587 | CFQ13W/GX23/830 | CF13DD/830 | PL-C 13W/830/USA/Alto |
| F13DBX23/835/ECO | 97588 | CFQ13W/GX23/835 | CF13DD/835 | PL-C 13W/835/USA/Alto |
| F13DBX23/841/ECO | 97589 | CFQ13W/GX23/841 | CF13DD/841 | PL-C 13W/841/USA/Alto |
| F13DBX/827/ECO | 97590 | CFQ13W/G24d/827 | — | PL-C 13W/827/Alto |
| F13DBX/830/ECO | 97591 | CFQ13W/G24d/830 | — | PL-C 13W/830/Alto |
| F13DBX/835/ECO | 97592 | CFQ13W/G24d/835 | — | — |
| F13DBX/841/ECO | 97593 | CFQ13W/G24d/841 | — | — |
| F18DBX/827/ECO | 97577 | CFQ18W/G24d/827 | CF18DD/827 | PL-C 18W/827/Alto |
| F18DBX/830/ECO | 97578 | CFQ18W/G24d/830 | CF18DD/830 | PL-C 18W/830/Alto |
| F18DBX/835/ECO | 97579 | CFQ18W/G24d/835 | CF18DD/835 | PL-C 18W/835/Alto |
| F18DBX/841/ECO | 97580 | CFQ18W/G24d/841 | CF18DD/841 | PL-C 18W/841/Alto |
| F26DBX/827/ECO | 97606 | CFQ26W/G24d/827 | CF26DD/827 | PL-C 26W/827/Alto |

| GE Description | GE Product Code | Generic Description | Osram/Sylvania Description | Philips Description |
|---------------------------------------|-----------------|---|----------------------------|------------------------|
| Order This GE Lamp | | If you currently use these lamps | | |
| Double Biax® 2-Pin (continued) | | | | |
| F26DBX/830/ECO | 97607 | CFQ26W/G24d/830 | CF26DD/830 | PL-C 26W/830/Alto |
| F26DBX/835/ECO | 97608 | CFQ26W/G24d/835 | CF26DD/835 | PL-C 26W/835/Alto |
| F26DBX/841/ECO | 97609 | CFQ26W/G24d/841 | CF26DD/841 | PL-C 26W/841/Alto |
| F26DBX/E/827/ECO | 97602 | CFQ26W/G24d/827 | — | — |
| F26DBX/E/835/ECO | 97604 | CFQ26W/G24d/835 | — | — |
| Double Biax® 4-Pin | | | | |
| F13DBX/827/ECO4P | 97594 | CFQ13W/G24q/827 | CF13DD/E/827 | PL-C 13W/827/4P/Alto |
| F13DBX/830/ECO4P | 97595 | CFQ13W/G24q/830 | CF13DD/E/830 | PL-C 13W/830/4P/Alto |
| F13DBX/835/ECO4P | 97596 | CFQ13W/G24q/835 | CF13DD/E/835 | PL-C 13W/835/4P/Alto |
| F13DBX/841/ECO4P | 97597 | CFQ13W/G24q/841 | CF13DD/E/841 | PL-C 13W/841/4P/Alto |
| F18DBX/827/ECO4P | 97598 | CFQ18W/G24q/827 | CF18DD/E/827 | PL-C 18W/827/4P/Alto |
| F18DBX/830/ECO4P | 97599 | CFQ18W/G24q/830 | CF18DD/E/830 | PL-C 18W/830/4P/Alto |
| F18DBX/835/ECO4P | 97600 | CFQ18W/G24q/835 | CF18DD/E/835 | PL-C 18W/835/4P/Alto |
| F18DBX/841/ECO4P | 97601 | CFQ18W/G24q/841 | CF18DD/E/841 | PL-C 18W/841/4P/Alto |
| F26DBX/827/ECO4P | 97610 | CFQ26W/G24q/827 | CF26DD/E/827 | PL-C 26W/827/4P/Alto |
| F26DBX/830/ECO4P | 97611 | CFQ26W/G24q/830 | CF26DD/E/830 | PL-C 26W/830/4P/Alto |
| F26DBX/835/ECO4P | 97612 | CFQ26W/G24q/835 | CF26DD/E/835 | PL-C 26W/835/4P/Alto |
| F26DBX/841/ECO4P | 97613 | CFQ26W/G24q/841 | CF26DD/E/841 | PL-C 26W/841/4P/Alto |
| Triple Biax® 4-Pin | | | | |
| F13TBX/827/4P/ECO | 97623 | CFTR13W/GX24q/827 | CF13DT/E/827 | PL-T 13W/827/X/4P/Alto |
| F13TBX/827/A/ECO | 97519 | CFTR13W/GX24q/827 | — | — |
| F13TBX/830/A/ECO | 97620 | CFTR13W/GX24q/830 | — | — |
| F13TBX/835/A/ECO | 97621 | CFTR13W/GX24q/835 | — | — |
| F13TBX/841/A/ECO | 97622 | CFTR13W/GX24q/841 | — | — |
| F18TBX/827/4P/ECO | 97628 | CFTR18W/GX24q/827 | CF18DT/E/827 | PL-T 18W/827/X/4P/Alto |
| F18TBX/827/A/ECO | 97624 | CFTR18W/GX24q/827 | CF18DT/E/IN/827 | PL-T 18W/827/4P/Alto |
| F18TBX/830/A/ECO | 97625 | CFTR18W/GX24q/830 | CF18DT/E/IN/830 | PL-T 18W/830/4P/Alto |
| F18TBX/835/A/ECO | 97626 | CFTR18W/GX24q/835 | CF18DT/E/IN/835 | PL-T 18W/835/4P/Alto |
| F18TBX/841/A/ECO | 97627 | CFTR18W/GX24q/841 | CF18DT/E/IN/841 | PL-T 18W/841/4P/Alto |
| F26TBX/827/4P/ECO | 97618 | CFTR26W/GX24q/827 | CF26DT/E/827 | PL-T 26W/827/X/4P/Alto |
| F26TBX/827/A/ECO | 97614 | CFTR26W/GX24q/827 | CF26DT/E/IN/827 | PL-T 26W/827/4P/Alto |
| F26TBX/830/A/ECO | 97615 | CFTR26W/GX24q/830 | CF26DT/E/IN/830 | PL-T 26W/830/4P/Alto |
| F26TBX/835/A/ECO | 97616 | CFTR26W/GX24q/835 | CF26DT/E/IN/835 | PL-T 26W/835/4P/Alto |
| F26TBX/841/A/ECO | 97617 | CFTR26W/GX24q/841 | CF26DT/E/IN/841 | PL-T 26W/841/4P/Alto |
| F32TBX/827/A/ECO | 97629 | CFTR32W/GX24q/827 | CF32DT/E/IN/827 | PL-T 32W/827/4P/Alto |
| F32TBX/830/A/ECO | 97630 | CFTR32W/GX24q/830 | CF32DT/E/IN/830 | PL-T 32W/830/4P/Alto |
| F32TBX/835/A/ECO | 97631 | CFTR32W/GX24q/835 | CF32DT/E/IN/835 | PL-T 32W/835/4P/Alto |
| F32TBX/841/A/ECO | 97632 | CFTR32W/GX24q/841 | CF32DT/E/IN/841 | PL-T 32W/841/4P/Alto |
| F42TBX/827/A/ECO | 97633 | CFTR42W/GX24q/827 | CF42DT/E/IN/827 | PL-T 42W/827/4P/Alto |
| F42TBX/830/A/ECO | 97634 | CFTR42W/GX24q/830 | CF42DT/E/IN/830 | PL-T 42W/830/4P/Alto |
| F42TBX/835/A/ECO | 97635 | CFTR42W/GX24q/835 | CF42DT/E/IN/835 | PL-T 42W/835/4P/Alto |
| F42TBX/841/A/ECO | 97636 | CFTR42W/GX24q/841 | CF42DT/E/IN/841 | PL-T 42W/841/4P/Alto |
| High Output Biax® 4-Pin | | | | |
| F57QBX827A4P/EOL | 48861 | CFM57W/GX24q/827 | CF57DT/E/IN/827 | — |
| F57QBX835A4P/EOL | 48863 | CFM57W/GX24q/835 | CF57DT/E/IN/835 | PL-T 57W/835/4P/A |
| F57QBX841A4P/EOL | 48864 | CFM57W/GX24q/841 | CF57DT/E/IN/841 | PL-T 57W/841/4P/A |
| F57QBX850A4P/EOL | 93404 | CFM57W/GX24q/850 | — | — |
| F70QBX827A4P/EOL | 48865 | CFM70W/GX24q/827 | — | — |
| F70QBX830A4P/EOL | 48866 | CFM70W/GX24q/830 | — | — |
| F70QBX835A4P/EOL | 48867 | CFM70W/GX24q/835 | — | — |
| F70QBX841A4P/EOL | 48868 | CFM70W/GX24q/841 | — | — |
| F70QBX850A4P/EOL | 93406 | CFM70W/GX24q/850 | — | — |

Compact Fluorescent Lamps

GE Enhanced Plug-in Product Conversion

| PC | PC Description | New PC | New Description |
|---|------------------|------------------------------|------------------|
| If you used to order GE product: | | Now order GE product: | |
| 37654 | F5BX/SPX27/827 | 97551 | F5BX/827/ECO |
| 37661 | F5BX/SPX41/840 | 97553 | F5BX/841/ECO |
| 37846 | F7BX/SPX27/827 | 97554 | F7BX/827/ECO |
| 37659 | F7BX/SPX35/835 | 97556 | F7BX/835/ECO |
| 37660 | F7BX/SPX41/840 | 97557 | F7BX/841/ECO |
| 37651 | F9BX/SPX27/827 | 97558 | F9BX/827/ECO |
| 37652 | F9BX/SPX35/835 | 97560 | F9BX/835/ECO |
| 37653 | F9BX/SPX41/840 | 97561 | F9BX/841/ECO |
| 41645 | F13BX/E/827 | 97562 | F13BX/E/827/ECO |
| 41646 | F13BX/E/830 | 97563 | F13BX/E/830/ECO |
| 17048 | F13BX/SPX35/835 | 97569 | F13BX/835/ECO |
| 20434 | F13BX/SPX41/840 | 97571 | F13BX/841/ECO |
| 11671 | F13BX/SPX50 | 97572 | F13BX/850/ECO |
| 14650 | F13BX/SPX27/827 | 97573 | F13BX/827/ECO |
| 17612 | F13BX/SPX30/830 | 97574 | F13BX/830/ECO |
| 42065 | F9DBX23T4/841 | 97575 | F9DBX23/841/ECO |
| 12409 | F9DBX23T4SPX27/8 | 97576 | F9DBX23/827/ECO |
| 18844 | F13DBX23T4/SPX27 | 97586 | F13DBX23/827/ECO |
| 10574 | F13DBX23T4/SPX30 | 97587 | F13DBX23/830/ECO |
| 18556 | F13DBX23T4/SPX35 | 97588 | F13DBX23/835/ECO |
| 20531 | F13DBX23T4/SPX41 | 97589 | F13DBX23/841/ECO |
| 18557 | F13DBXT4/SPX27 | 97590 | F13DBX/827/ECO |
| 12956 | F13DBXT4/SPX30 | 97591 | F13DBX/830/ECO |
| 18559 | F13DBXT4/SPX35 | 97592 | F13DBX/835/ECO |
| 20532 | F13DBXT4/SPX41 | 97593 | F13DBX/841/ECO |
| 30035 | F13DBX/SPX27/4P | 97594 | F13DBX/827/ECO4P |
| 10580 | F13DBX/SPX30/4P | 97595 | F13DBX/830/ECO4P |
| 30037 | F13DBX/SPX35/4P | 97596 | F13DBX/835/ECO4P |
| 30038 | F13DBX/SPX41/4P | 97597 | F13DBX/841/ECO4P |
| 12860 | F18DBXT4/SPX27 | 97577 | F18DBX/827/ECO |
| 12861 | F18DBXT4/SPX30 | 97578 | F18DBX/830/ECO |
| 12863 | F18DBXT4/SPX35 | 97579 | F18DBX/835/ECO |
| 12864 | F18DBXT4/SPX41 | 97580 | F18DBX/841/ECO |
| 12865 | F18DBX/SPX27/4P | 97598 | F18DBX/827/ECO4P |
| 12866 | F18DBX/SPX30/4P | 97599 | F18DBX/830/ECO4P |
| 12869 | F18DBX/SPX35/4P | 97600 | F18DBX/835/ECO4P |
| 12870 | F18DBX/SPX41/4P | 97601 | F18DBX/841/ECO4P |
| 46290 | F26DBX/E/827 | 97602 | F26DBX/E/827/ECO |
| 46292 | F26DBX/E/835 | 97604 | F26DBX/E/835/ECO |
| 35250 | F26DBXT4/SPX27 | 97606 | F26DBX/827/ECO |
| 35237 | F26DBXT4/SPX30 | 97607 | F26DBX/830/ECO |
| 35251 | F26DBXT4/SPX35 | 97608 | F26DBX/835/ECO |
| 35252 | F26DBXT4/SPX41 | 97609 | F26DBX/841/ECO |
| 35247 | F26DBXT4SPX27/4P | 97610 | F26DBX/827/ECO4P |
| 35235 | F26DBXT4SPX30/4P | 97611 | F26DBX/830/ECO4P |
| 35248 | F26DBXT4SPX35/4P | 97612 | F26DBX/835/ECO4P |
| 35236 | F26DBXT4SPX41/4P | 97613 | F26DBX/841/ECO4P |
| 34391 | F13TBX/SPX27/A/4 | 97619 | F13TBX/827/A/ECO |
| 34395 | F13TBX/SPX30/A/4 | 97620 | F13TBX/830/A/ECO |
| 34400 | F13TBX/SPX35/A/4 | 97621 | F13TBX/835/A/ECO |
| 34387 | F13TBX/SPX41/A/4 | 97622 | F13TBX/841/A/ECO |
| 47696 | F13TBX827/4P/EOL | 97623 | F13TBX827/4P/ECO |
| 34392 | F18TBX/SPX27/A/4 | 97624 | F18TBX/827/A/ECO |
| 34396 | F18TBX/SPX30/A/4 | 97625 | F18TBX/830/A/ECO |
| 34405 | F18TBX/SPX35/A/4 | 97626 | F18TBX/835/A/ECO |
| 34385 | F18TBX/SPX41/A/4 | 97627 | F18TBX/841/A/ECO |
| 48869 | F18TBX827/4P/EOL | 97628 | F18TBX827/4P/ECO |
| 34393 | F26TBX/SPX27/A/4 | 97614 | F26TBX/827/A/ECO |
| 34397 | F26TBX/SPX30/A/4 | 97615 | F26TBX/830/A/ECO |
| 34406 | F26TBX/SPX35/A/4 | 97616 | F26TBX/835/A/ECO |
| 34381 | F26TBX/SPX41/A/4 | 97617 | F26TBX/841/A/ECO |
| 48870 | F26TBX827/4P/EOL | 97618 | F26TBX827/4P/ECO |
| 39377 | F32TBX/SPX27A/4P | 97629 | F32TBX/827/A/ECO |

| PC | PC Description | New PC | New Description |
|---|---------------------|------------------------------|------------------|
| If you used to order GE product: | | Now order GE product: | |
| 39378 | F32TBX/SPX30A/4P | 97630 | F32TBX/830/A/ECO |
| 39379 | F32TBX/SPX35A/4P | 97631 | F32TBX/835/A/ECO |
| 39380 | F32TBX/SPX41A/4P | 97632 | F32TBX/841/A/ECO |
| 46312 | F42TBX827A4P/EOL | 97633 | F42TBX/827/A/ECO |
| 46313 | F42TBX830A4P/EOL | 97634 | F42TBX/830/A/ECO |
| 46314 | F42TBX835A4P/EOL | 97635 | F42TBX/835/A/ECO |
| 46315 | F42TBX841A4P/EOL | 97636 | F42TBX/841/A/ECO |
| 48861 | F57QBX/827/A/4P/EOL | 48861 | F57QBX/827/A/ECO |
| 48862 | F57QBX/830/A/4P/EOL | 48862 | F57QBX/830/A/ECO |
| 48863 | F57QBX/835/A/4P/EOL | 48863 | F57QBX/835/A/ECO |
| 48864 | F57QBX/841/A/4P/EOL | 48864 | F57QBX/841/A/ECO |
| 93404 | F57QBX/850/A/4P/EOL | 93404 | F57QBX/850/A/ECO |
| 48865 | F70QBX/827/A/4P/EOL | 48865 | F70QBX/827/A/ECO |
| 48866 | F70QBX/830/A/4P/EOL | 48866 | F70QBX/830/A/ECO |
| 48867 | F70QBX/835/A/4P/EOL | 48867 | F70QBX/835/A/ECO |
| 48868 | F70QBX/841/A/4P/EOL | 48868 | F70QBX/841/A/ECO |
| 93406 | F70QBX/850/A/4P/EOL | 93406 | F70QBX/850/A/ECO |

LED Lamps, Tubes and Modules

| | | | |
|---|-----|---------------------------------|------|
| Introduction | 6-2 | LED Tubes | |
| Product Information | 6-2 | Integrated Plastic Tubes..... | 6-9 |
| LED Decorative Lamps | | Integrated Glass Tubes..... | 6-9 |
| Candles..... | 6-3 | Remote Plastic Tubes..... | 6-10 |
| Globes..... | 6-3 | Remote Glass Tubes..... | 6-10 |
| Night Lights..... | 6-3 | Lightech™ Drivers..... | 6-11 |
| Filament Lamps..... | 6-3 | Infusion™ LED Modules | |
| LED A-Line Lamps | | LED Modules..... | 6-12 |
| A-15..... | 6-3 | Downlight (DLM) and | |
| A-19..... | 6-3 | Narrow Punch (NPM) Modules..... | 6-12 |
| A-21..... | 6-4 | Optics and Collar..... | 6-13 |
| Bright Stik..... | 6-4 | | |
| LED Reflector Lamps | | | |
| R20..... | 6-4 | | |
| BR30..... | 6-5 | | |
| BR40..... | 6-5 | | |
| LED Directional Lamps (MR16) | | | |
| 12 Volt AC/DC MR16 and MRX16..... | 6-5 | | |
| 120 Volt GU10..... | 6-5 | | |
| LED Directional Lamps (PAR) | | | |
| Compact PAR16..... | 6-5 | | |
| Compact PAR20..... | 6-5 | | |
| Compact PAR30 – Low Glare – | | | |
| Visual Comfort Lens™..... | 6-6 | | |
| Compact PAR30 - Long Neck – Low Glare – | | | |
| Visual Comfort Lens™..... | 6-6 | | |
| Compact PAR30..... | 6-6 | | |
| Compact PAR30 Long Neck..... | 6-6 | | |
| PAR30 HO - Universal 120-277V..... | 6-6 | | |
| PAR38 STIR..... | 6-6 | | |
| PAR38 – Low Glare – | | | |
| Visual Comfort Lens™..... | 6-7 | | |
| reveal® Whiter White Technology..... | 6-7 | | |
| Commercial PAR38 (Indoor/Outdoor)..... | 6-7 | | |
| LED HID | 6-8 | | |
| LED Plug-in | 6-8 | | |
| High Lumen Biax | 6-8 | | |
| RS Can | 6-8 | | |

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

LED Lamps, Tubes and Modules

Introduction

A GE scientist invented the first visible LED in 1962, pioneering a technology that is revolutionizing the lighting industry. GE is also one of the largest LED systems companies in the world. But it's not only about size. We're dedicated to LED performance on your behalf. That's why we are helping to develop a universal set of performance measures so you can make an informed decision.

Product Information

LED Lamps and Tubes

Quality

The first time you turn on GE LED replacement lamps, you'll be amazed by the color, distribution, output and uniformity. The proof is in your "before and after" environment. In addition, every LED system comes with a product life rating that recognizes acceptable light output for its intended application, ensuring that you won't be left in the dark.

Long Life

GE's LED replacement lamps are sturdy, dependable and long lasting. Depending on the lamp, you can expect up to 50,000 hours of rated life. That's 12 hours a day, every day of the year, for over a decade.

Innovation

We continually invest in new products and are often the first to market with the latest upgrades, including light sources, luminaires and controls for a system that's both efficient and effective.



ENERGY STAR®

In addition to energy savings, ENERGY STAR® qualified LED lamps can further reduce the overall cost of ownership through lamp rebate incentives. Good news for you is that GE has the most ENERGY STAR® rated LEDs. According to ENERGY STAR® guidelines, the benefits of an ENERGY STAR® qualified LED lamp include:

- Uses about 75% less energy than a traditional incandescent lamp
- Lasts at least 6 times longer than an incandescent lamp
- Turns on instantly—there's no warm up time

Total System Solutions

Anyone can install a lamp. What we implement are lighting strategies and solutions. Our products are designed to benefit you from an overall performance perspective.

Proven Track Record

We've been here. We'll be here. Built into each of GE's LED replacement lamps is 125 years of experience, reliability and innovation. Every performance claim we make is supported by stringent, comprehensive testing—ensuring that your lighting investment pays off today and in the future.

Trusted Advisor

From the start, we provide a comprehensive lighting audit of existing systems, provide photometric analysis with 3D renderings of the new system, and forecast energy and maintenance savings. We also search out opportunities for improvement you may not have considered.

Short Payback Period

Decreased energy and maintenance costs, combined with utility rebates, deliver results that often exceed your expectations.




Family of Solutions

Directional. Omni-directional. Decorative. Dimming. Tight optical control. Accent. Task. Display. Indoor. Outdoor. You name it—we've got it in LED.

Infusion™ LED Module




GE Infusion™ is a game-changing technology and one of the most flexible LED lighting solutions on the market. As a designer, OEM, or end-users, you can choose from an extensive selection of modules. Plus, there's the assurance of GE reliability and performance.

- Built for the Future: If lighting needs change or LED technology advances, there is no need to buy new fixtures. Simply twist in the latest GE Infusion™ LED Module.
- Environmentally Conscious: The Infusion™ LED Module can use fewer materials than integral LED fixtures because only the module is replaced at the end of lamp life—not the entire light fixture.
- Customizable: Select the module with the light level or color quality that meets your needs. The Infusion™ LED Module dims using a variety of dimming protocols including 0-10V, Phase and DALI.
- Compatible: Ideal for fixture manufacturers designing for track, recessed, pendant or other types of luminaires around one compatible solution—no need for multiple base designs.

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | MOL (in) | Lumens Initial | CBCP | Initial Color Temp | CRI | †Wattage Equivalency | *Rated Life - Hours L70 | Dimmable | ††ENERGY STAR® | ‡Location Rating | Additional Information | | |
|---|---|--|------------|------------------|-----------------|-----------------|----------|----------------|------|--------------------|------|----------------------|-------------------------|----------|----------------|------------------|--------------------------------|------------------|-----------------|
| LED Decorative Lamps | | | | | | | | | | | | | | | | | | | |
| LED Candles (1.8W candles are 10-watt incandescent replacements – based on ENERGY STAR® requirements for lumens) | | | | | | | | | | | | | | | | | | | |
|  | CA11 | Med | 3.5 | 68168 | LED3DCAM-C/TP | 120 | 3 | 4.2 | 170 | | 2700 | 80 | 25W | 15,000 | ▲ | | Damp | Clear, Bent Tip | |
| | | | 4 | 21250 | LED4DCAM-C3/827 | 120 | 6 | 4.2 | 300 | | 2700 | 80 | 40W | 15,000 | ▲ | ★ | Damp | Clear, Bent Tip | |
| | | | 4 | 75554 | LED4DCAMCF/824 | 120 | 6 | 4.2 | 250 | | 2400 | 76 | 25W | 15,000 | ▲ | | Damp | Clear, Bent Tip | |
| | | | 4.5 | 68167 | LED4DCAM-F/TP | 120 | 3 | 4.2 | 270 | | 2700 | 82 | 25W | 15,000 | ▲ | | Damp | Frost, Blunt Tip | |
| | | | | 7 | 21251 | LED7DCAM-C3/827 | 120 | 6 | 4.8 | 500 | | 2700 | 80 | 60W | 15,000 | ▲ | ★ | Damp | Clear, Bent Tip |
| | | E16 | 4 | 69111 | LED4DCAM-C3/850 | 120 | 6 | 4.2 | 300 | | 5000 | 80 | 40W | 15,000 | ▲ | | Damp | Clear, Bent Tip | |
| | | Cand | 3.5 | 68166 | LED3DCAC-C/TP | 120 | 3 | 4.3 | 170 | | 2700 | 80 | 25W | 15,000 | ▲ | | Damp | Clear, Bent Tip | |
| | 4 | | 21231 | LED4DCAC-C3/827 | 120 | 6 | 4.3 | 300 | | 2700 | 80 | 40W | 15,000 | ▲ | ★ | Damp | Clear, Bent Tip | | |
| | 4 | | 69109 | LED4DCAC-C3/850 | 120 | 6 | 4.3 | 300 | | 2700 | 80 | 40W | 15,000 | ▲ | | Damp | Clear, Bent Tip | | |
| | 4 | | 75553 | LED4DCACCF/824 | 120 | 6 | 4.3 | 250 | | 2400 | 76 | 25W | 15,000 | ▲ | | Damp | Clear, Bent Tip | | |
| | 4.5 | | 68165 | LED4DCAC-F/TP | 120 | 3 | 4.3 | 270 | | 2700 | 82 | 25W | 15,000 | ▲ | | Damp | Frost, Bent Tip | | |
| | 7 | | 21233 | LED7DCAC-C3/827 | 120 | 6 | 4.8 | 500 | | 2700 | 80 | 60W | 15,000 | ▲ | ★ | Damp | Clear, Bent Tip | | |
| | LED Globes (1.8W candles are 10-watt and 2.3W candles are 15-watt incandescent replacements – based on ENERGY STAR® requirements for lumens) | | | | | | | | | | | | | | | | | | |
| G16.5 | Cand | 4.5 | 68169 | LED4DG16C-W/TP | 120 | 3 | 3.0 | 270 | | 2700 | 82 | 25W | 15,000 | ▲ | | Damp | White | | |
| | | 4.5 | 68170 | LED4DG16C-C/TP | 120 | 3 | 3.0 | 270 | | 2700 | 82 | 25W | 15,000 | ▲ | | Damp | Clear | | |
| G25 | Med | 4.5 | 68171 | LED4DG25M-W/TP | 120 | 3 | 4.3 | 280 | | 2700 | 82 | 25W | 15,000 | ▲ | | Damp | White | | |
| | | 4.5 | 68172 | LED4DG25M-C/TP | 120 | 3 | 4.3 | 280 | | 2700 | 82 | 25W | 15,000 | ▲ | | Damp | Clear | | |
| | | 5 | 21253 | LED5DG25-W3/827 | 120 | 6 | 4.3 | 350 | | 2700 | 80 | 40W | 15,000 | ▲ | ★ | Damp | White | | |
| | | 7 | 21255 | LED7DG25-W3/827 | 120 | 6 | 4.3 | 500 | | 2700 | 80 | 60W | 15,000 | ▲ | ★ | Damp | White | | |
| LED Night Lights | | | | | | | | | | | | | | | | | | | |
| C7 | Cand | 0.5 | 13887 | LED0.5C7/C/CD2 | 120 | 6 | 2 | | | 2700 | 80 | | 25,000 | | | | Dry | Clear | |
| | | 0.5 | 14150 | LED0.5C7/W/CD2 | 120 | 6 | 2 | | | 2700 | 80 | | 25,000 | | | | Dry | White | |
| LED Filament Lamps | | | | | | | | | | | | | | | | | | | |
| CA11 | E12 | 3 | 75915 | LED3DCAC-V | 120 | 6 | 4.4 | 300 | | 2500 | 80 | 40W | 15,000 | ▲ | | Damp | Bent Tip, Vintage Filament | | |
| | Cand | 3 | 75914 | LED3DCAM-V | 120 | 6 | 4.4 | 300 | | 2500 | 80 | 40W | 15,000 | ▲ | | Damp | Bent Tip, Vintage Filament | | |
| ST19 | Med | 3 | 76018 | LED3DST19-V | 120 | 6 | 5 | 440 | | 2500 | | 25W | 15,000 | ▲ | | Damp | Vintage Filament | | |
| | | 5 | 33025 | LED5DST19-V-OT2P | 120 | 8 | 5 | 440 | | 2500 | | 40W | 15,000 | ▲ | | Damp | 4, 2-packs, Vintage Filament | | |
| LED A-Line Lamps | | | | | | | | | | | | | | | | | | | |
| LED A-15 | | | | | | | | | | | | | | | | | | | |
|  | Med | 3 | 92122 | LED3A15RED | 120 | 3 | 3.5 | | | Red | | | 15,000 | | | | Damp | Red | |
| | | 3 | 92125 | LED3A15BLUE | 120 | 3 | 3.5 | | | Blue | | | 15,000 | | | | Damp | Blue | |
| | | 3 | 92126 | LED3A15GREEN | 120 | 3 | 3.5 | | | Green | | | 15,000 | | | | Damp | Green | |
| | | 3 | 92132 | LED3A15PINK | 120 | 3 | 3.5 | | | Pink | | | 15,000 | | | | Damp | Pink | |
| | | 3 | 23054 | LED3A15ORNG | 120 | 3 | 3.5 | | | Orange | | | 15,000 | | | | Damp | Orange | |
| | | 4 | 34038 | LED4DA15-W3/827 | 120 | 6 | 3.5 | 300 | | 2700 | 80 | 40W | 15,000 | ▲ | | Damp | White | | |
| | | 4 | 34051 | LED4DA15-C3/827 | 120 | 6 | 3.5 | 300 | | 2700 | 80 | 40W | 15,000 | ▲ | | Damp | Clear | | |
| | | 4.5 | 83645 | LED4.5DA15C-FRIG | 120 | 3 | 3.5 | 350 | | 5000 | 80 | 40W | 15,000 | ▲ | | Damp | Clear Refrigerator Bulb | | |
| | | LED A-19 (The 9W A-19s are 40-watt and the 13W A-19s are 60-watt incandescent replacements – based on ENERGY STAR® requirements for lumens) | | | | | | | | | | | | | | | | | |
|  | Med | 6 | 69115 | LED6DA19/827 | 120 | 6 | 4.4 | 480 | | 2700 | 80 | 40W | 15,000 | ▲ | ★ | Damp | White, Omnidirectional, ES 2.0 | | |
| | | 6 | 69118 | LED6DA19/830 | 120 | 6 | 4.4 | 480 | | 3000 | 80 | 40W | 15,000 | ▲ | ★ | Damp | White, Omnidirectional, ES 2.0 | | |
| | | 6 | 69132 | LED6DA19/840 | 120 | 6 | 4.4 | 480 | | 4000 | 80 | 40W | 15,000 | ▲ | ★ | Damp | White, Omnidirectional, ES 2.0 | | |
| | | 6 | 69144 | LED6DA19/850 | 120 | 6 | 4.4 | 480 | | 5000 | 80 | 40W | 15,000 | ▲ | ★ | Damp | White, Omnidirectional, ES 2.0 | | |
| | | 7 | 89944 | LED7DAV3/5K/BX | 120 | 4 | 4.63 | 500 | | 5000 | 80 | 40W | 25,000 | ▲ | | Damp | White, Semi-Omni | | |
| | | 7 | 14063 | LED7DAV3/827W | 120 | 6 | 4.63 | 470 | | 2700 | 80 | 40W | 25,000 | ▲ | | Damp | White, Semi-Omni | | |
| | | 7 | 34238 | LED7DA19/824 | 120 | 6 | 4.44 | 450 | | 2400 | 80 | 40W | 25,000 | ▲ | | Damp | White | | |
| | | 7 | 11332 | LED7DA19/827 | 120 | 6 | 4.43 | 450 | | 2700 | 80 | 40W | 25,000 | ▲ | | Damp | White, Omnidirectional | | |
| | | 7 | 71208 | LED7DA19/830 | 120 | 6 | 4.43 | 450 | | 3000 | 80 | 40W | 25,000 | ▲ | | Damp | White, Omnidirectional | | |
| | | 7 | 95928 | LED7DAV3/5K | 120 | 6 | 4.63 | 500 | | 5000 | 80 | 40W | 25,000 | ▲ | | Damp | White, Semi-Omni | | |

* The life rating is based on the hours of operation the lamp will provide before reaching 70% of its original lumen rating (L70).
 ** Minimum order quantity = 6
 † Incandescent or halogen wattage equivalencies based on Energy Star guidelines using lumens or CBCP according to lamp type
 †† Energy Star status: Certified as meeting Energy Star guidelines.
 ‡ UL 1993 Environmental Requirements for LED Lamps.
 Location, damp – Exterior or interior location that is normally or periodically subject to condensation of moisture in, on, or adjacent to electrical equipment, and includes partially protected locations.
 Location, dry – Location not normally subject to dampness, may include a location subject to temporary dampness, i.e., building under construction, provided ventilation is adequate to prevent an accumulation of moisture.
 Location, wet – Location in which water or other liquid can drip, splash, or flow on or against electrical equipment.
 Note: Product descriptions ending in "TP" indicate a carded blister or clamshell package nested in a tray for shelf display. Cards also designed for hook display.

LED Lamps, Tubes and Modules

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | MOL (in) | Lumens Initial | CBCP | Initial Color Temp | CRI | †Wattage Equivalency | *Rated Life – Hours L70 | Dimmable | ††ENERGY STAR® | ‡Location Rating | Additional Information | | | |
|--|-----------|----------------------------|------------|------------------|------------------|----------|----------|----------------|---------------|--------------------|------|----------------------|-------------------------|----------|----------------|------------------|----------------------------------|--------------|--|--|
| LED A-Line Lamps (continued) | | | | | | | | | | | | | | | | | | | | |
| LED A-19 (continued) (The 9W A-19s are 40-watt and the 13W A-19s are 60-watt incandescent replacements – based on ENERGY STAR® requirements for lumens) | | | | | | | | | | | | | | | | | | | | |
|  | Med | 10 | 69117 | LED10DA19/827 | 120 | 6 | 4.4 | 800 | | 2700 | 80 | 60W | 15,000 | ▲ | ★ | Damp | White, Omnidirectional, ES 2.0 | | | |
| | | 10 | 69119 | LED10DA19/830 | 120 | 6 | 4.4 | 800 | | 3000 | 80 | 60W | 15,000 | ▲ | ★ | Damp | White, Omnidirectional, ES 2.0 | | | |
| | | 10 | 69133 | LED10DA19/840 | 120 | 6 | 4.4 | 800 | | 4000 | 80 | 60W | 15,000 | ▲ | ★ | Damp | White, Omnidirectional, ES 2.0 | | | |
| | | 10 | 69146 | LED10DA19/850 | 120 | 6 | 4.4 | 800 | | 5000 | 80 | 60W | 15,000 | ▲ | ★ | Damp | White, Omnidirectional, ES 2.0 | | | |
| | | 10.5 | 95927 | LED11DA19/5K | 120 | 6 | 4.43 | 850 | | 5000 | 80 | 60W | 15,000 | ▲ | | Damp | White, Semi-Omni | | | |
| | | 10.5 | 13791 | LED11DAV3/827W | 120 | 6 | 4.63 | 800 | | 2700 | 80 | 60W | 15,000 | ▲ | | Damp | White, Semi-Omni | | | |
| | | 11 | 29268 | LED11DA19/824 | 120 | 6 | 4.44 | 800 | | 2400 | 80 | 60W | 25,000 | ▲ | | Damp | White, Omnidirectional | | | |
| | | 11 | 11328 | LED11DA19/827 | 120 | 6 | 4.43 | 800 | | 2700 | 80 | 60W | 25,000 | ▲ | | Damp | White, Omnidirectional | | | |
| | | 11 | 71209 | LED11DA19/830 | 120 | 6 | 4.43 | 800 | | 3000 | 80 | 60W | 25,000 | ▲ | | Damp | White, Omnidirectional | | | |
| | | 11 | 74357 | LED11DA19827GU24 | 120 | 6 | 5.43 | 800 | | 2700 | 80 | 60W | 25,000 | ▲ | | Damp | White, Omnidirectional | | | |
| LED A-21 | | | | | | | | | | | | | | | | | | | | |
|  | GU24 | 12 | 73384 | LED12DA21F/830FE | 120 | 6 | 5.31 | 1100 | | 3000 | 80 | 100W | 25,000 | ▲ | | Enclosed | White, Enclosed, Omnidirectional | | | |
| | | 12 | 73404 | LED12DA21/850FE | 120 | 6 | 5.31 | 1100 | | 5000 | 80 | 100W | 25,000 | ▲ | | Enclosed | White, Enclosed, Omnidirectional | | | |
| | Med | 13 | 12422 | LED13DA212/827 | 120 | 6 | 5.28 | 1100 | | 2700 | 80 | 75W | 25,000 | ▲ | | Damp | White, Omnidirectional | | | |
| | | 14 | 94936 | LED14DA21/827W | 120 | 6 | 5.28 | 1100 | | 2700 | 80 | 75W | 15,000 | ▲ | | | White, Semi-Omni | | | |
| | | 16 | 12349 | LED16DA212/827 | 120 | 6 | 5.28 | 1600 | | 2700 | 80 | 100W | 25,000 | ▲ | | Damp | White, Omnidirectional | | | |
| | | 16 | 12399 | LED16DA212/830 | 120 | 6 | 5.28 | 1600 | | 3000 | 80 | 100W | 25,000 | ▲ | | Damp | White, Omnidirectional | | | |
| | | 16 | 92498 | LED16DA21827GU24 | 120 | 6 | 5.43 | 1600 | | 2700 | 80 | 100W | 25,000 | ▲ | | Damp | White, Omnidirectional | | | |
| | GU24 | Med | 16 | 92118 | LED16A30/100/5KB | 120 | 3 | 5.31 | 400/1600/1050 | | 5000 | 80 | 30W/70W/100W | 25,000 | | ★ | Damp | White, 3-Way | | |
| | | | 16 | 73376 | LED16A30/100/827 | 120 | 6 | 5.31 | 360/1400/900 | | 2700 | 80 | 30W/70W/100W | 25,000 | | ★ | Damp | White, 3-Way | | |
| | | 17 | 34369 | LED17DA21/5K/BX | 120 | 4 | 5.28 | 1600 | | 5000 | 80 | 100W | 15,000 | ▲ | | Damp | White, Semi-Omni | | | |
| | | 17 | 16113 | LED17DA21/827 | 120 | 6 | 5.28 | 1600 | | 2700 | 78 | 100W | 15,000 | ▲ | | Damp | White, Semi-Omni | | | |
| | | 17 | 23006 | LED17DA21XSW | 120 | 4 | 5.28 | 1520 | | 2700 | 85 | 100W | 15,000 | ▲ | | Damp | White, Semi-Omni | | | |
| | | 22 | 73378 | LED22A50/150/827 | 120 | 6 | 5.31 | 700/2155/1600 | | 2700 | 80 | 50W/100W/150W | 25,000 | | | Damp | White, 3-Way | | | |
| | | 22 | 92120 | LED22A50/150/5KB | 120 | 3 | 5.31 | 700/2155/1600 | | 5000 | 80 | 50W/100W/150W | 25,000 | | | Damp | White, 3-Way | | | |
| | | LED Bright Stik | | | | | | | | | | | | | | | | | | |
| | Med | 5.5 | 66256 | LED5.5LS3/827 | 120 | 48 | 4.45 | 450 | | 2700 | 80 | 40W | 15,000 | | ★ | Damp | Case = 16 3-pack, ES 2.0 | | | |
| | | 5.5 | 75177 | LED5.5LS3/850 | 120 | 48 | 4.45 | 450 | | 5000 | 80 | 40W | 15,000 | | ★ | Damp | Case = 16 3-pack, ES 2.0 | | | |
| | | 6 | 35517 | LED6LS3/828 | 120 | 48 | 4.45 | 450 | | 2850 | 80 | 40W | 15,000 | | | Indoor | Case = 16 3-pack | | | |
| | | 6 | 35519 | LED6LS3/850 | 120 | 48 | 4.45 | 450 | | 5000 | 80 | 40W | 15,000 | | | Indoor | Case = 16 3-pack | | | |
| | | 9 | 75184 | LED9LS3/827 | 120 | 48 | 4.45 | 800 | | 2700 | 80 | 60W | 15,000 | | ★ | Damp | Case = 16 3-pack, ES 2.0 | | | |
| | | 9 | 75588 | LED9LS3/850 | 120 | 48 | 4.45 | 800 | | 5000 | 80 | 60W | 15,000 | | ★ | Damp | Case = 16 3-pack, ES 2.0 | | | |
| | | 10 | 28089 | LED10LS3/828 | 120 | 48 | 4.45 | 760 | | 2850 | 80 | 60W | 15,000 | | | Indoor | Case = 16 3-pack | | | |
| | | 10 | 32273 | LED10LS3/850 | 120 | 48 | 4.45 | 760 | | 5000 | 80 | 60W | 15,000 | | | Indoor | Case = 16 3-pack | | | |
| | | 14 | 35520 | LED14LS2/828 | 120 | 32 | 5.24 | 1060 | | 2850 | 80 | 75W | 15,000 | | | Indoor | Case = 16 2-pack | | | |
| | | 14 | 35522 | LED14LS2/850 | 120 | 32 | 5.24 | 1060 | | 5000 | 80 | 75W | 15,000 | | | Indoor | Case = 16 2-pack | | | |
| | | 16 | 35523 | LED16LS2/828 | 120 | 32 | 5.24 | 1520 | | 2850 | 80 | 100W | 15,000 | | | Indoor | Case = 16 2-pack | | | |
| | | 16 | 35524 | LED16LS2/850 | 120 | 32 | 5.24 | 1520 | | 5000 | 80 | 100W | 15,000 | | | Indoor | Case = 16 2-pack | | | |
| | | LED Reflector Lamps | | | | | | | | | | | | | | | | | | |
| | | LED R20 | | | | | | | | | | | | | | | | | | |
|  | Med | 7 | 38268 | LED7DR20/827 | 120 | 6 | 3.64 | 470 | | 2700 | 80 | | 25,000 | ▲ | | Damp | White | | | |
| | | 7 | 43233 | LED7DR20/830 | 120 | 6 | 3.64 | 470 | | 3000 | 80 | | 25,000 | ▲ | | Damp | White | | | |
| | | 7 | 38273 | LED7DR20/850 | 120 | 6 | 3.64 | 500 | | 5000 | 80 | | 25,000 | ▲ | | Damp | White | | | |

* The life rating is based on the hours of operation the lamp will provide before reaching 70% of its original lumen rating (L70).

** Minimum order quantity = 6

† Incandescent or halogen wattage equivalencies based on Energy Star guidelines using lumens or CBCP according to lamp type

†† Energy Star status: Certified as meeting Energy Star guidelines.

‡ UL 1993 Environmental Requirements for LED Lamps.

Location, damp – Exterior or interior location that is normally or periodically subject to condensation of moisture in, on, or adjacent to electrical equipment, and includes partially protected locations.

Location, dry – Location not normally subject to dampness, may include a location subject to temporary dampness, i.e., building under construction, provided ventilation is adequate to prevent an accumulation of moisture.


Location, wet – Location in which water or other liquid can drip, splash, or flow on or against electrical equipment.

Notes: Product descriptions ending in "/TP" indicate a corded blister or clamshell package nested in a tray for shelf display. Cards also designed for hook display.


| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | MOL (in) | Lumens Initial | CBCP | Initial Color Temp | CRI | †Wattage Equivalency | *Rated Life - Hours L70 | Dimmable | ††ENERGY STAR® | ‡Location Rating | Additional Information |
|------------|-----------|-------|------------|-------------|-------|----------|----------|----------------|------|--------------------|-----|----------------------|-------------------------|----------|----------------|------------------|------------------------|
|------------|-----------|-------|------------|-------------|-------|----------|----------|----------------|------|--------------------|-----|----------------------|-------------------------|----------|----------------|------------------|------------------------|

LED Reflector Lamps (continued)

LED BR30 (The 12W BR30s are 65-watt incandescent replacements - based on ENERGY STAR® requirements for lumens)




| | | | | | | | | | | | | | | | | | |
|---|-----|----|-------|------------------|-----|---|------|-----|--|------|----|-----|--------|---|---|------|---------------------|
|  | Med | 10 | 68160 | LED10DR303V/827W | 120 | 6 | 5.37 | 700 | | 2700 | 80 | 65W | 25,000 | ▲ | ★ | Damp | Frosted, White body |
| | | 10 | 68161 | LED10DR303V/830W | 120 | 6 | 5.37 | 700 | | 3000 | 80 | 65W | 25,000 | ▲ | ★ | Damp | Frosted, White body |
| | | 10 | 43234 | LED10DR303V/827W | 120 | 3 | 5.37 | 650 | | 2700 | 80 | 65W | 25,000 | ▲ | | Damp | Frosted, White body |
| | | 10 | 43237 | LED10DR30V/830W | 120 | 3 | 5.37 | 650 | | 3000 | 80 | 65W | 25,000 | ▲ | | Damp | Frosted, White body |
| | | 10 | 43241 | LED10DR30V/850W | 120 | 3 | 5.37 | 650 | | 5000 | 80 | 65W | 25,000 | ▲ | | Damp | Frosted, White body |
| | | 10 | 69107 | LED10DR303/850W | 120 | 6 | 5.37 | 700 | | 5000 | 80 | 65W | 25,000 | ▲ | ★ | Damp | Frosted, White body |

LED BR40


| | | | | | | | | | | | | | | | | | |
|---|-----|----|-------|-----------------|-----|---|------|------|--|------|----|-----|--------|---|---|------|---------------------|
|  | Med | 13 | 20445 | LED13BR40/5K/TP | 120 | 3 | 6.34 | 1070 | | 5000 | 80 | 85W | 25,000 | ▲ | ★ | Damp | Frosted, White body |
| | | 13 | 64176 | LED13DBR40/827 | 120 | 6 | 6.34 | 1070 | | 2700 | 80 | 85W | 25,000 | ▲ | ★ | Damp | Frosted, White body |
| | | 13 | 14708 | LED13DBR40/830 | 120 | 6 | 6.34 | 1070 | | 3000 | 80 | 85W | 25,000 | ▲ | ★ | Damp | Frosted, White body |

LED Directional Lamps (MR16)

LED 12 Volt AC/DC MR16 and MRX16 (35-watt Halogen replacements - based on ENERGY STAR® requirements for center beam candlepower)


| | | | | | | | | | | | | | | | | | |
|--|-------|------------------|-------|------------------|------|-----|------|------|------|------|--------|-----|--------|------|------------------------|------|--------------------------------|
|  | GU5.3 | 7 | 69920 | LED7DMR160830/25 | 12 | 6 | 1.9 | 390 | 1900 | 3000 | 83 | 35W | 25,000 | ▲ | | Damp | Narrow Flood, 25° beam, Silver |
| | | 7 | 93412 | LED7DMR16S830/15 | 12 | 6 | 2.3 | 460 | 3800 | 3000 | 80 | 35W | 25,000 | ▲ | | Damp | Spot, 15° beam, Silver |
| | | 7 | 93433 | LED7DMR16S840/15 | 12 | 6 | 1.97 | 490 | 4200 | 4000 | 80 | 35W | 25,000 | ▲ | | Damp | Accent, 15° beam, Silver |
| | | 7 | 89947 | LED7XDMR16D/TP | 12 | 6 | 1.88 | 500 | 2500 | 3000 | 82 | 50W | 25,000 | ▲ | | Damp | Accent, 25° beam, Silver |
|  | GU5.3 | 7 | 35529 | LED7DMRX16827/15 | 12 | 6 | 2.2 | 400 | 3400 | 2700 | 80 | 35W | 25,000 | ▲ | | Damp | Spot, 15° beam, White |
| | | 7 | 35206 | LED7XDMRX1682725 | 12 | 6 | 2.2 | 500 | 2350 | 2700 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White |
| | | 7 | 35214 | LED7XDMRX1682735 | 12 | 6 | 2.2 | 500 | 1350 | 2700 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam, White |
| | | 7 | 35196 | LED7XDMRX1683025 | 12 | 6 | 2.2 | 500 | 1350 | 3000 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam, White |
| | | 7 | 35195 | LED7XDMRX1683025 | 12 | 6 | 2.2 | 500 | 2350 | 3000 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White |
|  | GU5.3 | 5.5 | 35540 | LED5.5DMR1682735 | 12 | 6 | 1.88 | 400 | 1000 | 2700 | 80 | 35W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam, White |
| | | 5.5 | 35535 | LED5.5DMR1683035 | 12 | 6 | 1.88 | 420 | 1000 | 3000 | 80 | 35W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam, White |
| | | 5.5 | 35542 | LED5.5DMR1684035 | 12 | 6 | 1.8 | 460 | 1100 | 4000 | 80 | 35W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam, White |
| | | 7 | 35543 | LED7XDMR16-28325 | 12 | 6 | 1.8 | 500 | 2350 | 3000 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White |
| | | 7 | 35544 | LED7XDMR16-28335 | 12 | 6 | 1.8 | 500 | 1350 | 3000 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Flood 35° beam, White |
| | | 7 | 39542 | LED7XDMR16-V2725 | 12 | 6 | 1.88 | 530 | 2400 | 2700 | 80 | 50W | 25,000 | ▲ | | Damp | Narrow Flood, 25° beam, White |
| 7 | 39567 | LED7XDMR16-V2735 | 12 | 6 | 1.88 | 530 | 1400 | 2700 | 80 | 50W | 25,000 | ▲ | | Damp | Flood, 35° beam, White | | |

LED 120 Volt GU10


| | | | | | | | | | | | | | | | | | |
|---|------|-----|-------|-------------------|-----|---|------|-----|------|------|----|-----|--------|---|---|------|--------------------------|
|  | GU10 | 1 | 73153 | LED1GU10/NFL/CD | 120 | 3 | 2.30 | 35 | 100 | 5500 | 70 | | 12,000 | | | Damp | Deco Light |
| | | 3.5 | 37114 | LED4D/GU1083035 | 120 | 6 | 2.1 | 250 | 550 | 3000 | 80 | 35W | 25,000 | ▲ | ★ | Dry | Flood, 35° beam, White |
| | | 4 | 75865 | LED4GU10/NFL/TP | 120 | 3 | 2.30 | 100 | 250 | 3050 | 82 | | 15,000 | | | Damp | Accent, 25° beam, Silver |
| | | 4 | 89020 | LED4D/GU10/NFLTP | 120 | 3 | 2.1 | 250 | 720 | 3000 | 80 | 35W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam, White |
| | | 4.5 | 62909 | LED5GU10/NFL/TP | 120 | 3 | 2.30 | 200 | 800 | 3000 | 82 | 35W | 25,000 | | | Damp | Accent, 25° beam, Silver |
| | | 6 | 26346 | LED6D/GU10/NFL/TP | 120 | 3 | 2.1 | 380 | 1100 | 3000 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam, White |

LED Directional Lamps (PAR)

LED Compact PAR16 (50-watt halogen replacements - based on ENERGY STAR® requirements for center beam candlepower)

| | | | | | | | | | | | | | | | | | |
|---|-----|---|-------|-----------------|-----|---|-----|-----|------|------|----|-----|--------|---|---|-----|------------------------|
|  | Med | 4 | 26383 | LED4D/P16/NFLTP | 120 | 3 | 2.8 | 250 | 720 | 3000 | 80 | 40W | 25,000 | ▲ | ★ | Dry | Flood, 35° beam, White |
| | | 6 | 26384 | LED6D/P16/NFLTP | 120 | 3 | 2.8 | 380 | 1100 | 3000 | 80 | 60W | 25,000 | ▲ | ★ | Dry | Flood, 35° beam, White |

LED Compact PAR20 (50-watt halogen replacements - based on ENERGY STAR® requirements for center beam candlepower)

| | | | | | | | | | | | | | | | | | |
|---|-----|---|-------|------------------|-----|---|-----|-----|------|------|----|-----|--------|---|---|------|-------------------------------------|
|  | Med | 7 | 92163 | LED7D0202NFL-OD | 120 | 3 | 3.5 | 500 | 3600 | 2700 | 80 | 50W | 25,000 | ▲ | | Wet | Accent, 20° beam, White, in/outdoor |
| | | 7 | 21282 | LED7DP202NFL5KOD | 120 | 3 | 3.5 | 550 | 3600 | 5000 | 80 | 50W | 25,000 | ▲ | | Wet | Accent, 20° beam, White, in/outdoor |
| | | 7 | 93327 | LED7DP203B830/20 | 120 | 6 | 3.5 | 520 | 3600 | 3000 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 20° beam Black |
| | | 7 | 92121 | LED7DP203NFL5KTP | 120 | 3 | 3.5 | 550 | 4000 | 5000 | 80 | 70W | 25,000 | ▲ | ★ | Damp | Accent, 20° beam, White |
| | | 7 | 74374 | LED7DP203W/NFLTP | 120 | 3 | 3.5 | 500 | 3600 | 2700 | 80 | 70W | 25,000 | ▲ | ★ | Damp | Accent, 20° beam, White |
| | | 7 | 93347 | LED7DP203W830/20 | 120 | 6 | 3.5 | 520 | 3600 | 3000 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 20° beam White |

* The life rating is based on the hours of operation the lamp will provide before reaching 70% of its original lumen rating (L70).

** Minimum order quantity = 6

† Incandescent or halogen wattage equivalencies based on Energy Star guidelines using lumens or CBCP according to lamp type

†† Energy Star status: Certified as meeting Energy Star guidelines.

‡ UL 1993 Environmental Requirements for LED Lamps.







Location, damp - Exterior or interior location that is normally or periodically subject to condensation of moisture in, on, or adjacent to electrical equipment, and includes partially protected locations.

Location, dry - Location not normally subject to dampness, may include a location subject to temporary dampness, i.e., building under construction, provided ventilation is adequate to prevent an accumulation of moisture.

Location, wet - Location in which water or other liquid can drip, splash, or flow on or against electrical equipment.

Note: Product descriptions ending in "/TP" indicate a cased blister or clamshell package nested in a tray for shelf display. Cards also designed for hook display.

LED Lamps, Tubes and Modules

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | MOL (in) | Lumens Initial | CBCP | Initial Color Temp | CRI | †Wattage Equivalency | *Rated Life - Hours L70 | Dimmable | ††ENERGY STAR® | ‡Location Rating | Additional Information |
|--|-----------|-------|------------|------------------|---------|----------|----------|----------------|-------|--------------------|-----|----------------------|-------------------------|----------|----------------|------------------|--|
| LED Directional Lamps (PAR) (continued) | | | | | | | | | | | | | | | | | |
| LED Compact PAR20 (continued) (50-watt halogen replacements - based on ENERGY STAR® requirements for center beam candlepower) | | | | | | | | | | | | | | | | | |
|  | Med | 7 | 93348 | LED7DP203W830/35 | 120 | 6 | 3.5 | 520 | 1200 | 3000 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam White |
| | | 7 | 93349 | LED7DP203B827/20 | 120 | 6 | 3.5 | 500 | 3600 | 2700 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 20° beam Black |
| | | 7 | 93354 | LED7DP203B827/35 | 120 | 6 | 3.5 | 500 | 1150 | 2700 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam Black |
| | | 7 | 93360 | LED7DP203W827/20 | 120 | 6 | 3.5 | 500 | 3600 | 2700 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 20° beam White |
| | | 7 | 93362 | LED7DP203W827/35 | 120 | 6 | 3.5 | 500 | 1150 | 2700 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam White |
| LED Compact PAR30 - Low Glare - Visual Comfort Lens™ (Halogen replacement info below is based on ENERGY STAR® requirements for center beam candlepower) | | | | | | | | | | | | | | | | | |
|  | Med | 12 | 84374 | LED12DP30RW93015 | 120 | 6 | 3.74 | 860 | 9400 | 3000 | 90 | 75W | 25,000 | ▲ | ★ | Damp | Spot, 15° beam, White |
| | | 12 | 84379 | LED12DP30RW93025 | 120 | 6 | 3.74 | 900 | 3900 | 3000 | 90 | 75W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White |
| | | 12 | 84380 | LED12DP30RW93040 | 120 | 6 | 3.74 | 900 | 1800 | 3000 | 90 | 75W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, White |
| | | 12 | 84392 | LED12DP30RW92725 | 120 | 6 | 3.74 | 850 | 3500 | 2700 | 90 | 75W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White |
| | | 12 | 84395 | LED12DP30RW92740 | 120 | 6 | 3.74 | 850 | 1700 | 2700 | 90 | 75W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, White |
| | | 12 | 84384 | LED12DP30RW83025 | 120 | 6 | 3.74 | 1050 | 4800 | 3000 | 80 | 75W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White |
| | | 12 | 42131 | LED12DP30RW83040 | 120 | 6 | 3.74 | 1050 | 2400 | 3000 | 80 | 75W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, White |
| | | 12 | 42133 | LED12DP30RW82725 | 120 | 6 | 3.74 | 1000 | 4700 | 2700 | 80 | 75W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White |
| | | 12 | 42134 | LED12DP30RW82740 | 120 | 6 | 3.74 | 1000 | 2200 | 2700 | 80 | 75W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, White |
| | | 12 | 73583 | LED12DP30RB82740 | 120 | 6 | 3.74 | 1000 | 2200 | 2700 | 80 | 75W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, Black |
| LED Compact PAR30 - Long Neck - Low Glare - Visual Comfort Lens™ (Halogen replacement info below is based on ENERGY STAR® requirements for center beam candlepower) | | | | | | | | | | | | | | | | | |
|  | Med | 12 | 84399 | LED12DP3LRW93025 | 120 | 6 | 4.72 | 900 | 3900 | 3000 | 90 | 75W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White |
| | | 12 | 84400 | LED12DP3LRW93040 | 120 | 6 | 4.72 | 900 | 1800 | 3000 | 90 | 75W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, White |
| | | 12 | 84407 | LED12DP3LRW92740 | 120 | 6 | 4.72 | 850 | 1700 | 2700 | 90 | 75W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, White |
| | | 12 | 42136 | LED12DP3LRW83025 | 120 | 6 | 4.72 | 1050 | 4800 | 3000 | 80 | 75W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White |
| | | 12 | 42137 | LED12DP3LRW83040 | 120 | 6 | 4.72 | 1050 | 2400 | 3000 | 80 | 75W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, White |
| | | 12 | 42141 | LED12DP3LRW82725 | 120 | 6 | 4.72 | 1000 | 4700 | 2700 | 80 | 75W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White |
| | | 12 | 42144 | LED12DP3LRW82740 | 120 | 6 | 4.72 | 1000 | 2200 | 2700 | 80 | 75W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, White |
|  | | 17 | 20151 | LED17DP30LW93025 | 120 | 6 | 4.8 | 1100 | 4600 | 3000 | 90 | 75W | 25,000 | ▲ | ★ | Damp | Spot, 25° beam, White |
| LED Compact PAR30 (Halogen replacement info below is based on ENERGY STAR® requirements for center beam candlepower) | | | | | | | | | | | | | | | | | |
|  | Med | 12 | 89988 | LED12DP302/FL/TP | 120 | 3 | 3.66 | 850 | 2300 | 2700 | 84 | 75W | 25,000 | ▲ | | Damp | Accent, 35° beam, White |
| | | 12 | 98755 | LED12DP303W83035 | 120 | 6 | 3.66 | 950 | 2600 | 3000 | 80 | 75W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam, White, STIR |
| LED Compact PAR30 Long Neck (Halogen replacement info below is based on ENERGY STAR® requirements for center beam candlepower) | | | | | | | | | | | | | | | | | |
|  | Med | 12 | 89989 | LED12DP3L2/FL/TP | 120 | 3 | 4.61 | 850 | 2300 | 2700 | 84 | 75W | 25,000 | ▲ | | Damp | Accent, 35° beam, White |
| | | 12 | 22233 | LED12DP3L2FLSKTP | 120 | 3 | 4.61 | 1050 | 3000 | 5000 | 84 | 75W | 25,000 | ▲ | | Damp | Accent, 35° beam, White |
| | | 12 | 98811 | LED12DP3L3W83035 | 120 | 6 | 4.61 | 950 | 2600 | 3000 | 80 | 75W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam, White, STIR |
| LED PAR30 HO - Universal 120-277V | | | | | | | | | | | | | | | | | |
| | | 18 | 75089 | LED18P30LW83015 | 120-277 | 6 | 4.6 | 1800 | 15500 | 3000 | 80 | 75W | 25,000 | | | Damp | Spot, 15° beam, White |
| | | 18 | 75091 | LED18P30LW83025 | 120-277 | 6 | 4.6 | 1800 | 7000 | 3000 | 80 | 75W | 25,000 | | | Damp | Narrow Flood, 25° beam, White |
| | | 18 | 75065 | LED18P30LW93015 | 120-277 | 6 | 4.6 | 1400 | 12500 | 3000 | 90 | 75W | 25,000 | | | Damp | Spot, 15° beam, MTO, 1000 Min. Qty, 12 Week Lead Time, White |
| | | 18 | 75078 | LED18P30LW93025 | 120-277 | 6 | 4.6 | 1400 | 5000 | 3000 | 90 | 75W | 25,000 | | | Damp | Narrow Flood, 25° beam, White |
| LED PAR38 STIR | | | | | | | | | | | | | | | | | |
| PAR38 | | 15 | 32213 | LED15DP38W830/40 | 120 | 6 | 5.04 | 1300 | 2300 | 3000 | 81 | 90W | 25,000 | ▲ | ★ | Wet | Flood, 40° beam, STIR |

* The life rating is based on the hours of operation the lamp will provide before reaching 70% of its original lumen rating (L70).

** Minimum order quantity = 6

† Incandescent or halogen wattage equivalencies based on Energy Star guidelines using lumens or CBCP according to lamp type

†† Energy Star status: Certified as meeting Energy Star guidelines.



‡ UL 1993 Environmental Requirements for LED Lamps.

Location, damp - Exterior or interior location that is normally or periodically subject to condensation of moisture in, on, or adjacent to electrical equipment, and includes partially protected locations.

Location, dry - Location not normally subject to dampness, may include a location subject to temporary dampness, i.e., building under construction, provided ventilation is adequate to prevent an accumulation of moisture.

Location, wet - Location in which water or other liquid can drip, splash, or flow on or against electrical equipment.

Note: Product descriptions ending in "/TP" indicate a carded blister or clamshell package nested in a tray for shelf display. Cards also designed for hook display.

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | MOL (in) | Lumens Initial | CBCP | Initial Color Temp | CRI | †Wattage Equivalency | *Rated Life - Hours L70 | Dimmable | ‡ENERGY STAR® | ‡Location Rating | Additional Information | |
|---|-----------|-----------------|------------|-------------------|-------|----------|----------|----------------|--------|--------------------|--------|----------------------|-------------------------|----------|-------------------------------|------------------|--|--|
| LED Directional Lamps (PAR) (continued) | | | | | | | | | | | | | | | | | | |
| LED PAR38 - Low Glare - Visual Comfort Lens™ (90-watt halogen replacements - based on ENERGY STAR® requirements for center beam candlepower) | | | | | | | | | | | | | | | | | | |
|  | Med | 12 | 63323 | LED12DP38W827/25 | 120 | 6 | 5.32 | 960 | 4600 | 2700 | 80 | 90W | 25,000 | ▲ | | Dry | Narrow Flood, 25° beam, White | |
| | | 12 | 63334 | LED12DP38W927/25 | 120 | 6 | 5.32 | 820 | 3900 | 2700 | 91 | 90W | 25,000 | ▲ | | Dry | Narrow Flood, 25° beam, White | |
| | | 12 | 92971 | LED12D38W3827/40 | 120 | 6 | 5.31 | 1050 | 2300 | 2700 | 81 | 100W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, White | |
| | | 12 | 92972 | LED12D38W3830/25 | 120 | 6 | 5.31 | 1050 | 5500 | 3000 | 81 | 100W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White | |
| | | 12 | 92973 | LED12D38W03830/40 | 120 | 6 | 5.31 | 1050 | 2300 | 3000 | 80 | 100W | 25,000 | ▲ | ★ | Wet | Flood, 40° beam, White | |
| | | 18 | 94909 | LED18D38W830/15 | 120 | 6 | 5.31 | 1400 | 8700 | 3000 | 80 | 85W | 25,000 | ▲ | | Dry | Spot, 15° beam, White | |
| | | 18 | 92923 | LED18D38W3927/25 | 120 | 6 | 5.31 | 1250 | 4900 | 2700 | 92 | 100W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White | |
| | | 18 | 92927 | LED18D38W3930/15 | 120 | 6 | 5.32 | 1350 | 15,000 | 3000 | 92 | 75W | 25,000 | ▲ | ★ | Damp | Spot, 15° beam, White | |
| | | 18 | 92933 | LED18D38W3930/25 | 120 | 6 | 5.31 | 1350 | 5200 | 3000 | 92 | 100W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White | |
| | | 18 | 92934 | LED18D38W3930/40 | 120 | 6 | 5.12 | 1350 | 3200 | 3000 | 92 | 120W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, White | |
| | | 18 | 92950 | LED18D38W382725 | 120 | 6 | 5.12 | 1550 | 5800 | 2700 | 81 | 120W | 25,000 | ▲ | ★ | Wet | Narrow Flood, 25° beam, White | |
| | | 18 | 92958 | LED18D38W382740 | 120 | 6 | 5.12 | 1550 | 3800 | 2700 | 81 | 120W | 25,000 | ▲ | ★ | Wet | Flood, 40° beam, White | |
| | | 18 | 92963 | LED18D38W383025 | 120 | 6 | 5.12 | 1550 | 6000 | 3000 | 81 | 120W | 25,000 | ▲ | ★ | Wet | Narrow Flood, 25° beam, White | |
| | | 18 | 92967 | LED18D38W383040 | 120 | 6 | 5.12 | 1550 | 4000 | 3000 | 81 | 150W | 25,000 | ▲ | ★ | Wet | Flood, 40° beam, White | |
| | | 18 | 85085 | LED18D38W383525 | 120 | 6 | 5.31 | 1700 | 6500 | 3500 | 81 | 120W | 25,000 | ▲ | ★ | Wet | Narrow Flood, 25° beam, White | |
| | | 18 | 87917 | LED18D38W383540 | 120 | 6 | 5.31 | 1700 | 4400 | 3500 | 81 | 150W | 25,000 | ▲ | ★ | Wet | Flood, 40° beam, White | |
| | | 18 | 92961 | LED18D38W3830/15 | 120 | 6 | 5.12 | 1750 | 20,000 | 3000 | 81 | 150W | 25,000 | ▲ | ★ | Damp | Spot, 15° beam, White | |
| | | 18 | 92926 | LED18D38W3927/40 | 120 | 6 | 5.12 | 1250 | 2900 | 2700 | 92 | 120W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, White | |
| | | 18 | 93171 | LED18D38W384025 | 120 | 6 | 5.31 | 1700 | 6500 | 4000 | 81 | 120W | 25,000 | ▲ | ★ | Wet | Narrow Flood, 25° beam, White | |
| | | 18 | 93172 | LED18D38W384040 | 120 | 6 | 5.31 | 1700 | 4400 | 4000 | 81 | 150W | 25,000 | ▲ | ★ | Wet | Flood, 40° beam, White | |
| 18 | 65730 | LED18D38W385025 | 120 | 6 | 5.31 | 1700 | 6500 | 5000 | 81 | 120W | 25,000 | ▲ | ★ | Wet | Narrow Flood, 25° beam, White | | | |
| 18 | 65731 | LED18D38W385040 | 120 | 6 | 5.31 | 1700 | 4400 | 5000 | 81 | 150W | 25,000 | ▲ | ★ | Wet | Flood, 40° beam, White | | | |
| LED reveal® Whiter White Technology | | | | | | | | | | | | | | | | | | |
| PAR38 | | 18 | 31300 | LED18D38WW930/15 | 120 | 6 | 5.31 | 1170 | 10000 | 3000 | 91 | 100W | 25,000 | ▲ | ★ | Damp | Spot, 15° beam, MTO, 1000 Min. Qty, 12 Week Lead Time, White | |
| | | 18 | 31301 | LED18D38WW930/25 | 120 | 6 | 5.31 | 1170 | 4500 | 3000 | 91 | 100W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White | |
| LED Commercial PAR38 (Indoor/Outdoor) (Halogen replacement info below is based on ENERGY STAR® requirements for center beam candlepower) | | | | | | | | | | | | | | | | | | |
|  | Med | 12 | 90132 | LED12DP382W82725 | 120 | 6 | 5.12 | 850 | 4000 | 2700 | 84 | 85W | 25,000 | ▲ | | Wet | Narrow Flood, 25° beam, White | |
| | | 12 | 89990 | LED12DP382WFL/TP | 120 | 3 | 5.12 | 950 | 2700 | 3000 | 84 | 85W | 25,000 | ▲ | | Wet | Flood, 35° beam, White | |
| | | 18 | 89992 | LED18DP38WFL/TP | 120 | 6 | 5.12 | 1300 | 2400 | 3000 | 84 | 100W | 25,000 | ▲ | | Wet | Flood, 40° beam, White | |
| | | 26 | 68183 | LED26DP38S830/12 | 120 | 6 | 5.31 | 1500 | 24000 | 3000 | 82 | 130W | 25,000 | ▲ | | Wet | Spot, 12° beam, Silver, 130-w Repl. | |
| | | 26 | 68184 | LED26DP38S830/25 | 120 | 6 | 5.31 | 1500 | 6800 | 3000 | 82 | 130W | 25,000 | ▲ | | Wet | Narrow Flood, 25° beam, Silver, 130-w Repl. | |
| | | 26 | 68185 | LED26DP38S830/40 | 120 | 6 | 5.31 | 1500 | 3100 | 3000 | 82 | 120W | 25,000 | ▲ | | Wet | Flood, 40° beam, Silver, 120-w Repl. | |
| | | 26 | 68182 | LED26DP38S840/40 | 120 | 6 | 5.31 | 1650 | 3200 | 4000 | 82 | 120W | 25,000 | ▲ | | Wet | Flood, 40° beam, Silver, 120-w Repl. | |
| | | 26 | 68181 | LED26DP38S-FL/TP | 120 | 6 | 5.31 | 1650 | 3200 | 4000 | 82 | 120W | 25,000 | ▲ | | Wet | Flood, 40° beam, Silver, 120-w Repl. | |
| | | 26 | 33647 | LED26DP38S835/12 | 120 | 6 | 5.31 | 1900 | 31,000 | 3500 | 82 | 160W | 25,000 | ▲ | ★ | Wet | Spot, 12° beam, Silver | |
| | | 26 | 70591 | LED26DP38S835/40 | 120 | 6 | 5.31 | 1900 | 4,000 | 3500 | 82 | 160W | 25,000 | ▲ | ★ | Wet | Flood, 40° beam, Silver | |
| | | 28 | 15139 | LED28P38S830/15 | 120 | 6 | 5.31 | 2500 | 20,000 | 3000 | 81 | 150W | 25,000 | | ★ | Damp | Spot, 15° beam, Silver, Non-Dimming | |
| | | 28 | 25844 | LED28P38S830/25 | 120 | 6 | 5.31 | 2400 | 11,000 | 3000 | 81 | 150W | 25,000 | | ★ | Damp | Narrow Flood, 25° beam, Silver, Non-Dimming | |
| | | 28 | 25953 | LED28P38S830/40 | 120 | 6 | 5.31 | 2400 | 5,600 | 3000 | 81 | 150W | 25,000 | | ★ | Damp | Flood, 40° beam, Silver, Non-Dimming | |

* The life rating is based on the hours of operation the lamp will provide before reaching 70% of its original lumen rating (L70).

** Minimum order quantity = 6

† Incandescent or halogen wattage equivalencies based on Energy Star guidelines using lumens or CBCP according to lamp type

‡ Energy Star status: Certified as meeting Energy Star guidelines.

‡ UL 1993 Environmental Requirements for LED Lamps.



Location, damp - Exterior or interior location that is normally or periodically subject to condensation of moisture in, on, or adjacent to electrical equipment, and includes partially protected locations.

Location, dry - Location not normally subject to dampness, may include a location subject to temporary dampness, i.e., building under construction, provided ventilation is adequate to prevent an accumulation of moisture.

Location, wet - Location in which water or other liquid can drip, splash, or flow on or against electrical equipment.

Note: Product descriptions ending in "/TP" indicate a carded blister or clamshell package nested in a tray for shelf display. Cards also designed for hook display.

LED Lamps, Tubes and Modules

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | MOL (in) | Lumens Initial | CBCP | Initial Color Temp | CRI | †Wattage Equivalency | *Rated Life - Hours L70 | Dimmable | †ENERGY STAR® | ‡Location Rating | Additional Information | | |
|--|---|-----------|------------|------------------|------------------|----------|----------|----------------|------|--------------------|------|----------------------|-------------------------|----------|---------------|------------------|--|------------------------------------|--|
| LED HID – 400 Watt Metal Halide Replacement Lamp | | | | | | | | | | | | | | | | | | | |
| ED37 | EX39 | 60 | 43263 | LED60/2M175/740 | | 3 | 8.4 | 8,800 | - | 4000 | 70 | 175W | 50,000 | | | Damp | Open or Enclosed Rated, CWA ANSI-M57, M137, M152 | | |
| | | 60 | 88107 | LED60/2M175/750 | | 3 | 8.4 | 8,800 | - | 5000 | 70 | 175W | 50,000 | | | Damp | Open or Enclosed Rated, CWA ANSI-M57, M137, M152 | | |
| | | 80 | 43258 | LED80/2M250/740 | | 3 | 8.4 | 11,800 | - | 4000 | 70 | 250W | 50,000 | | | Damp | Open or Enclosed Rated, CWA ANSI-M58, M138, M153 | | |
| | | 80 | 88099 | LED80/2M250/750 | | 3 | 8.4 | 11,800 | - | 5000 | 70 | 250W | 50,000 | | | Damp | Open or Enclosed Rated, CWA ANSI-M58, M138, M153 | | |
| | | 165 | 21259 | LED165/M400/740 | | 3 | 11.42 | 20,000 | - | 4000 | 73 | 400W | 50,000 | | | Dry | Open Rated, ANSI - M59, M135, M155 | | |
| LED Plug-in | | | | | | | | | | | | | | | | | | | |
| Vertical  | G24q/GX24 | 12 | 96801 | LED12G24Q-V/827 | # | 6 | 5.31 | 950 | - | 2700 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White | | |
| | | 12 | 96775 | LED12G24Q-V/830 | # | 6 | 5.31 | 950 | - | 3000 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White | | |
| | | 12 | 96689 | LED12G24Q-V/835 | # | 6 | 5.31 | 1000 | - | 3500 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White | | |
| | | 12 | 96771 | LED12G24Q-V/840 | # | 6 | 5.31 | 1000 | - | 4000 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White | | |
| | GX24q | 18.5 | 39288 | LED19GX24q-V/827 | # | 6 | 6.42 | 1800 | - | 2700 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White | | |
| | | 18.5 | 39277 | LED19GX24q-V/830 | # | 6 | 6.42 | 1850 | - | 3000 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White | | |
| | | 18.5 | 39275 | LED19GX24q-V/835 | # | 6 | 6.42 | 1950 | - | 3500 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White | | |
| | | 18.5 | 39279 | LED19GX24q-V/840 | # | 6 | 6.42 | 1950 | - | 4000 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White | | |
| | Horizontal  | G24q/GX24 | 12 | 96799 | LED12G24Q-H/827 | # | 6 | 5.31 | 950 | - | 2700 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White | |
| | | | 12 | 96798 | LED12G24Q-H/830 | # | 6 | 5.31 | 950 | - | 3000 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White | |
| | | | 12 | 96761 | LED12G24Q-H/835 | # | 6 | 5.31 | 1000 | - | 3500 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White | |
| | | | 12 | 96769 | LED12G24Q-H/840 | # | 6 | 5.31 | 1000 | - | 4000 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White | |
| GX24q | | 18.5 | 39289 | LED19GX24q-H/827 | # | 6 | 6.7 | 1800 | - | 2700 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White | | |
| | | 18.5 | 39282 | LED19GX24q-H/830 | # | 6 | 6.7 | 1850 | - | 3000 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White | | |
| | | 18.5 | 39276 | LED19GX24q-H/835 | # | 6 | 6.7 | 1950 | - | 3500 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White | | |
| | | 18.5 | 39283 | LED19GX24q-H/840 | # | 6 | 6.7 | 1950 | - | 4000 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White | | |
| High Lumen Biax | | | | | | | | | | | | | | | | | | | |
| HLBX | | 2G11 | 17 | 39073 | LED172G11/830/10 | # | 10 | 22.3 | 2150 | - | 3000 | 80 | | 40,000 | | | Damp | Requires Electronic Ballast, White | |
| | | | 17 | 39074 | LED172G11/835/10 | # | 10 | 22.3 | 2150 | - | 3500 | 80 | | 40,000 | | | Damp | Requires Electronic Ballast, White | |
| | | | 17 | 39075 | LED172G11/840/10 | # | 10 | 22.3 | 2200 | - | 4000 | 80 | | 40,000 | | | Damp | Requires Electronic Ballast, White | |
| | 17 | | 39076 | LED172G11/850/10 | # | 10 | 22.3 | 2200 | - | 5000 | 80 | | 40,000 | | | Damp | Requires Electronic Ballast, White, MTO | | |
| RS Can | | | | | | | | | | | | | | | | | | | |
| | E26 | 10 | 95853 | LED10RS4/827E26P | 120 | 12 | 5.88 | 700 | | 2700 | 80 | 65W | 50,000 | ▲ | ★ | Damp | 4" Can, Pigtail Attachment | | |
| | | 10 | 95854 | LED10RS4/830E26P | 120 | 12 | 5.88 | 700 | | 3000 | 80 | 65W | 50,000 | ▲ | ★ | Damp | 4" Can, Pigtail Attachment | | |
| | | 10 | 35365 | LED10RS4/840E26P | 102 | 12 | 7.5 | 700 | | 4000 | 80 | 65W | 50,000 | ▲ | ★ | Damp | 4" Can, Pigtail Attachment | | |
| | GU24 | 10 | 95855 | LED10RS4/827GUP | 120 | 12 | 5.88 | 700 | | 2700 | 80 | 65W | 50,000 | ▲ | ★ | Damp | 4" Can, Pigtail Attachment | | |
| | | 10 | 95856 | LED10RS4/830GUP | 120 | 12 | 5.88 | 700 | | 3000 | 80 | 65W | 50,000 | ▲ | ★ | Damp | 4" Can, Pigtail Attachment | | |

Check ballast compatibility at GELighting.com/LED4pin-compatibility.

* The life rating is based on the hours of operation the lamp will provide before reaching 70% of its original lumen rating (L70).

** Minimum order quantity = 6

† Incandescent or halogen wattage equivalencies based on Energy Star guidelines using lumens or CBCP according to lamp type
†† Energy Star status: Certified as meeting Energy Star guidelines.

‡ UL 1993 Environmental Requirements for LED Lamps.

Location, damp – Exterior or interior location that is normally or periodically subject to condensation of moisture in, on, or adjacent to electrical equipment, and includes partially protected locations.

Location, dry – Location not normally subject to dampness, may include a location subject to temporary dampness, i.e., building under construction, provided ventilation is adequate to prevent an accumulation of moisture.

Location, wet – Location in which water or other liquid can drip, splash, or flow on or against electrical equipment.

Note: Product descriptions ending in "TTP" indicate a corded blister or clamshell package nested in a tray for shelf display. Cards also designed for hook display.

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | MOL (in) | Lumens Initial | CBCP | Initial Color Temp | CRI | †Wattage Equivalency | *Rated Life - Hours L70 | Dimmable | †ENERGY STAR® | ‡Location Rating | Additional Information |
|---------------------------|-----------|-------|------------------|-------------|-------|----------|----------|----------------|------|--------------------|-----|----------------------|-------------------------|----------|---------------|------------------|----------------------------|
| RS Can (continued) | | | | | | | | | | | | | | | | | |
| E26 | 10 | 85153 | LED10RS6/827E26P | 120 | 12 | 7.5 | 700 | | | 2700 | 80 | 65W | 50,000 | ▲ | ★ | Damp | 6" Can, Pigtail Attachment |
| | | 85160 | LED10RS6/830E26P | 120 | 12 | 7.5 | 700 | | | 3000 | 80 | 65W | 50,000 | ▲ | ★ | Damp | 6" Can, Pigtail Attachment |
| E26 | 10 | 30367 | LED10RS6/840E26P | 120 | 12 | 7.5 | 700 | | | 4000 | 80 | 65W | 50,000 | ▲ | ★ | Damp | 6" Can, Pigtail Attachment |
| | | 95851 | LED10RS6/827GUP | 120 | 12 | 7.5 | 700 | | | 2700 | 80 | 65W | 50,000 | ▲ | ★ | Damp | 6" Can, Pigtail Attachment |
| GU24 | 10 | 95852 | LED10RS6/830GUP | 120 | 12 | 7.5 | 700 | | | 3000 | 80 | 65W | 50,000 | ▲ | ★ | Damp | 6" Can, Pigtail Attachment |
| | | 70120 | LED13RS6/827E26P | 120 | 12 | 7.5 | 1000 | | | 2700 | 80 | 90W | 50,000 | ▲ | ★ | Damp | 6" Can, Pigtail Attachment |
| E26 | 13 | 70122 | LED13RS6/830E26P | 120 | 12 | 7.5 | 1000 | | | 3000 | 80 | 90W | 50,000 | ▲ | ★ | Damp | 6" Can, Pigtail Attachment |
| | | 70124 | LED13RS6/827GUP | 120 | 12 | 7.5 | 1000 | | | 2700 | 80 | 90W | 50,000 | ▲ | ★ | Damp | 6" Can, Pigtail Attachment |
| GU24 | 13 | 70127 | LED13RS6/830GUP | 120 | 12 | 7.5 | 1000 | | | 3000 | 80 | 90W | 50,000 | ▲ | ★ | Damp | 6" Can, Pigtail Attachment |

| Bulb | Watts | Order Code | Description | Base | Qty | MOL (in.) | Initial Lumens | Initial Color Temp | CRI | Life (L70) | DLC | UL | ‡Location Rating | Additional Information |
|------|-------|------------|-------------|------|-----|-----------|----------------|--------------------|-----|------------|-----|----|------------------|------------------------|
|------|-------|------------|-------------|------|-----|-----------|----------------|--------------------|-----|------------|-----|----|------------------|------------------------|

LED Tubes

Integrated 4 ft LED Plastic Tubes (Operates on Instant Start or Program Start Ballast)

| | | | | | | | | | | | | | | |
|----|-------|----------------|----------------|-----|----|------|-------|-------|-----|-----|-----|------|------------------------|------------------------|
| T8 | 18 | 31550 | LED18ET8/4/830 | G13 | 25 | 48 | 2150 | 3500K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 18 | 93133 | LED18ET8/4/835 | G13 | 25 | 48 | 2250 | 3500K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 18 | 93135 | LED18ET8/4/840 | G13 | 25 | 48 | 2250 | 4000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 18 | 93140 | LED18ET8/4/850 | G13 | 25 | 48 | 2350 | 5000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 15 | 62399 | LED15ET8/4/830 | G13 | 25 | 48 | 1850 | 3000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 15 | 62401 | LED15ET8/4/835 | G13 | 25 | 48 | 1950 | 3500K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 15 | 62402 | LED15ET8/4/840 | G13 | 25 | 48 | 1950 | 4000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 15 | 62409 | LED15ET8/4/850 | G13 | 25 | 48 | 2050 | 5000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 15 | 62410 | LED15ET8/4/865 | G13 | 25 | 48 | 1950 | 6500K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 12 | 61218 | LED12ET8/4/830 | G13 | 25 | 48 | 1550 | 3000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 12 | 61223 | LED12ET8/4/835 | G13 | 25 | 48 | 1600 | 3500K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 12 | 61271 | LED12ET8/4/840 | G13 | 25 | 48 | 1600 | 4000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 12 | 61327 | LED12ET8/4/850 | G13 | 25 | 48 | 1700 | 5000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| 12 | 61329 | LED12ET8/4/865 | G13 | 25 | 48 | 1600 | 6500K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast | |

Integrated 3 ft LED Plastic Tubes (Operates on Instant Start or Program Start Ballast)

| | | | | | | | | | | | | | | |
|----|----|-------|----------------|-----|----|----|------|-------|-----|-----|---|-----|------|------------------------|
| T8 | 12 | 31554 | LED12ET8/3/830 | G13 | 25 | 36 | 1350 | 3500K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 12 | 26544 | LED12ET8/3/835 | G13 | 25 | 36 | 1400 | 3500K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 12 | 26625 | LED12ET8/3/840 | G13 | 25 | 36 | 1400 | 4000K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 12 | 26627 | LED12ET8/3/850 | G13 | 25 | 36 | 1500 | 5000K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |

Integrated 2 ft LED Plastic Tubes (Operates on Instant Start or Program Start Ballast)

| | | | | | | | | | | | | | | |
|----|---|-------|---------------|-----|----|----|------|-------|-----|-----|-----|-----|------|------------------------|
| T8 | 9 | 31557 | LED9ET8/2/830 | G13 | 25 | 24 | 1100 | 3500K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 9 | 26635 | LED9ET8/2/835 | G13 | 25 | 24 | 1100 | 3500K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 9 | 26648 | LED9ET8/2/840 | G13 | 25 | 24 | 1100 | 4000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 9 | 26676 | LED9ET8/2/850 | G13 | 25 | 24 | 1100 | 5000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |

Integrated U6 LED Plastic Tubes (Operates on Instant Start or Program Start Ballast)

| | | | | | | | | | | | | | | |
|----|----|-------|-----------------|-----|----|------|------|-------|-----|-----|---|-----|------|------------------------|
| T8 | 13 | 43120 | LED13ET8/U6/830 | G13 | 12 | 22.5 | 1800 | 3000K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 13 | 43125 | LED13ET8/U6/835 | G13 | 12 | 22.5 | 1850 | 3500K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 13 | 43129 | LED13ET8/U6/840 | G13 | 12 | 22.5 | 1900 | 4000K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 13 | 43130 | LED13ET8/U6/850 | G13 | 12 | 22.5 | 1900 | 5000K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |

Integrated 4 ft LED Glass Tubes (Type A)

| | | | | | | | | | | | | | | |
|----|----|-------|------------------|-----|----|----|------|-------|-----|-----|-----|-----|------|------------------------|
| T8 | 18 | 35767 | LED18ET8/G/4/830 | G13 | 20 | 48 | 2200 | 3000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 18 | 35768 | LED18ET8/G/4/835 | G13 | 20 | 48 | 2300 | 3500K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 18 | 35769 | LED18ET8/G/4/840 | G13 | 20 | 48 | 2300 | 4000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 18 | 35772 | LED18ET8/G/4/850 | G13 | 20 | 48 | 2400 | 5000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 18 | 35773 | LED18ET8/G/4/865 | G13 | 20 | 48 | 2300 | 6500K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 15 | 35790 | LED15ET8/G/4/830 | G13 | 20 | 48 | 2000 | 3000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 15 | 35791 | LED15ET8/G/4/835 | G13 | 20 | 48 | 2000 | 3500K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 15 | 35793 | LED15ET8/G/4/840 | G13 | 20 | 48 | 2000 | 4000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 15 | 35797 | LED15ET8/G/4/850 | G13 | 20 | 48 | 2100 | 5000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |

Check ballast compatibility at gelighting.com/LED4pin-compatibility.
 * The life rating is based on the hours of operation the lamp will provide before reaching 70% of its original lumen rating (L70).
 ** Minimum order quantity = 6
 † Incandescent or halogen wattage equivalencies based on Energy Star guidelines using lumens or CBCP according to lamp type
 †† Energy Star status: Certified as meeting Energy Star guidelines.
 ‡ UL 1993 Environmental Requirements for LED Lamps.
 Location, damp - Exterior or interior location that is normally or periodically subject to condensation of moisture in, on, or adjacent to electrical equipment, and includes partially protected locations.
 Location, dry - Location not normally subject to dampness, may include a location subject to temporary dampness, i.e., building under construction, provided ventilation is adequate to prevent an accumulation of moisture.
 Location, wet - Location in which water or other liquid can drip, splash, or flow on or against electrical equipment.
 Note: Product descriptions ending in "TTP" indicate a carded blister or clamshell package nested in a tray for shelf display. Cards also designed for hook display.

LED Lamps, Tubes and Modules

| Bulb | Watts | Order Code | Description | Base | Qty | MOL (in.) | Initial Lumens | Initial Color Temp | CRI | Life (L70) | DLC | UL | †Location Rating | Additional Information |
|--|--|------------|-------------------|------|-----|-----------|----------------|--------------------|-----|------------|-----|-----|------------------|------------------------------|
| LED Tubes (continued) | | | | | | | | | | | | | | |
| Integrated 4 ft LED Glass Tubes (Type A) (continued) | | | | | | | | | | | | | | |
| T8 | 15 | 35798 | LED15ET8/G/4/865 | G13 | 20 | 48 | 2000 | 6500K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 15 | 43284 | LED12ET8/G/4/830 | G13 | 20 | 48 | 1600 | 3000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 15 | 43288 | LED12ET8/G/4/835 | G13 | 20 | 48 | 1650 | 3500K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 15 | 43291 | LED12ET8/G/4/840 | G13 | 20 | 48 | 1650 | 4000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 15 | 43293 | LED12ET8/G/4/850 | G13 | 20 | 48 | 1750 | 5000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| Integrated 4 ft Value LED Glass Tubes (Type A) | | | | | | | | | | | | | | |
| T8 | 15 | 35896 | LED15ET8/835-V6P | G13 | 6 | 48 | 1750 | 3500K | 80+ | 36K | No | Yes | Damp | Instant or PRS Ballast |
| | 15 | 35900 | LED15ET8/840-V6P | G13 | 6 | 48 | 1750 | 4000K | 80+ | 36K | No | Yes | Damp | Instant or PRS Ballast |
| | 15 | 35911 | LED15ET8/850-V6P | G13 | 6 | 48 | 1800 | 5000K | 80+ | 36K | No | Yes | Damp | Instant or PRS Ballast |
| | 15 | 35913 | LED15ET8/865-V6P | G13 | 6 | 48 | 1800 | 6500K | 80+ | 36K | No | Yes | Damp | Instant or PRS Ballast |
| Integrated 3 ft LED Glass Tubes (Type A) | | | | | | | | | | | | | | |
| T8 | 11 | 35783 | LED11ET8/G/3/830 | G13 | 20 | 36 | 1350 | 3000K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 11 | 35784 | LED11ET8/G/3/835 | G13 | 20 | 36 | 1400 | 3500K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 11 | 35788 | LED11ET8/G/3/840 | G13 | 20 | 36 | 1400 | 4000K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 11 | 35789 | LED11ET8/G/3/850 | G13 | 20 | 36 | 1500 | 5000K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| Integrated 2 ft LED Glass Tubes (Type A) | | | | | | | | | | | | | | |
| T8 | 8 | 35775 | LED8ET8/G/2/830 | G13 | 20 | 24 | 1100 | 3000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 8 | 35776 | LED8ET8/G/2/835 | G13 | 20 | 24 | 1100 | 3500K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 8 | 35778 | LED8ET8/G/2/840 | G13 | 20 | 24 | 1100 | 4000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 8 | 35779 | LED8ET8/G/2/850 | G13 | 20 | 24 | 1100 | 5000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| Remote 4 ft LED Plastic Tubes (Operates with Remote Driver) | | | | | | | | | | | | | | |
| T8 | 18 | 94381 | LED21T8/4/835 | G13 | 10 | 48 | 2400 | 3500K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 18 | 94382 | LED21T8/4/840 | G13 | 10 | 48 | 2500 | 4000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 18 | 94383 | LED21T8/4/850 | G13 | 10 | 48 | 2500 | 5000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 18 | 26059 | LED21T8/4/865 | G13 | 10 | 48 | 2400 | 6500K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 13 | 38954 | LED15T8/4/830 | G13 | 10 | 48 | 1700 | 3000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 13 | 38957 | LED15T8/4/835 | G13 | 10 | 48 | 1800 | 3500K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 13 | 38958 | LED15T8/4/840 | G13 | 10 | 48 | 1800 | 4000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 13 | 38962 | LED15T8/4/850 | G13 | 10 | 48 | 1800 | 5000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 13 | 38964 | LED15T8/4/865 | G13 | 10 | 48 | 1800 | 6500K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | Remote 3 ft LED Plastic Tubes (Operates with Remote Driver) | | | | | | | | | | | | | |
| T8 | 16 | 82343 | LED18T8/3/835 | G13 | 10 | 36 | 1800 | 3500K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 16 | 82345 | LED18T8/3/840 | G13 | 10 | 36 | 1800 | 4000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 16 | 82346 | LED18T8/3/850 | G13 | 10 | 36 | 1800 | 5000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| Remote 2 ft LED Plastic Tubes (Operates with Remote Driver) | | | | | | | | | | | | | | |
| T8 | 8 | 65706 | LED9T8/2/835 | G13 | 20 | 24 | 1000 | 3500K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 8 | 65707 | LED9T8/2/840 | G13 | 20 | 24 | 1100 | 4000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 8 | 65711 | LED9T8/2/850 | G13 | 20 | 24 | 1100 | 5000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 8 | 92997 | LED9T8/2/865 | G13 | 20 | 24 | 1000 | 6500K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| Remote LED Plastic U-Tubes (Operates with Remote Driver) | | | | | | | | | | | | | | |
| T8 | 12 | 28084 | LED14T8/U/835 | G13 | 15 | 22.5 | 1700 | 3500K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 12 | 28164 | LED14T8/U/840 | G13 | 15 | 22.5 | 1700 | 4000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| Remote 8 ft LED Glass Tubes (Operates on Remote Driver) | | | | | | | | | | | | | | |
| T8 | 30 | 62326 | LED36T8/G/8/830 | Fo8 | 20 | 96 | 4200 | 3000K | 80+ | 50K | - | Yes | Damp | Requires Driver, Made in USA |
| | 30 | 62327 | LED36T8/G/8/835 | Fo8 | 20 | 96 | 4400 | 3500K | 80+ | 50K | - | Yes | Damp | Requires Driver, Made in USA |
| | 30 | 62329 | LED36T8/G/8/840 | Fo8 | 20 | 96 | 4400 | 4000K | 80+ | 50K | - | Yes | Damp | Requires Driver, Made in USA |
| | 30 | 62349 | LED36T8/G/8/850 | Fo8 | 20 | 96 | 4500 | 5000K | 80+ | 50K | - | Yes | Damp | Requires Driver, Made in USA |
| Remote 4 ft LED Glass Tubes (Operates on Remote Driver) | | | | | | | | | | | | | | |
| T8 | 18 | 62428 | LED21T8/G/4/835 | G13 | 10 | 48 | 2400 | 3500K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 18 | 62485 | LED21T8/G/4/840 | G13 | 10 | 48 | 2500 | 4000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 18 | 62487 | LED21T8/G/4/850 | G13 | 10 | 48 | 2500 | 5000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 18 | 62406 | LED21T8/G/4/835HL | G13 | 10 | 48 | 2750 | 3500K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 18 | 62407 | LED21T8/G/4/840HL | G13 | 10 | 48 | 2800 | 4000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 18 | 62408 | LED21T8/G/4/850HL | G13 | 10 | 48 | 2800 | 5000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 18 | 91475 | LED21T8/G/4/830US | G13 | 10 | 48 | 2600 | 3000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver, Made in USA |
| | 18 | 91496 | LED21T8/G/4/835US | G13 | 10 | 48 | 2600 | 3500K | 80+ | 50K | Yes | Yes | Damp | Requires Driver, Made in USA |
| | 18 | 91497 | LED21T8/G/4/840US | G13 | 10 | 48 | 2600 | 4000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver, Made in USA |
| | 18 | 91498 | LED21T8/G/4/850US | G13 | 10 | 48 | 2600 | 5000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver, Made in USA |
| | 13 | 38944 | LED15T8/G/4/830 | G13 | 10 | 48 | 1700 | 3000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 13 | 38945 | LED15T8/G/4/835 | G13 | 10 | 48 | 1750 | 3500K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |

* The life rating is based on the hours of operation the lamp will provide before reaching 70% of its original lumen rating (L70).

** Minimum order quantity = 6

† Incandescent or halogen wattage equivalencies based on Energy Star guidelines using lumens or CBPB according to lamp type

†† Energy Star status: Certified as meeting Energy Star guidelines.

‡ UL 1993 Environmental Requirements for LED Lamps.

Location, damp - Exterior or interior location that is normally or periodically subject to condensation of moisture in, on, or adjacent to electrical equipment, and includes partially protected locations.

Location, dry - Location not normally subject to dampness, may include a location subject to temporary dampness, i.e., building under construction, provided ventilation is adequate to prevent an accumulation of moisture.

Location, wet - Location in which water or other liquid can drip, splash, or flow on or against electrical equipment.

Note: Product descriptions ending in "TTP" indicate a carded blister or clamshell package nested in a tray for shelf display. Cards also designed for hook display.

| Bulb | Watts | Order Code | Description | Base | Qty | MOL (in.) | Initial Lumens | Initial Color Temp | CRI | Life (L70) | DLC | UL | †Location Rating | Additional Information |
|------|-------|------------|-------------|------|-----|-----------|----------------|--------------------|-----|------------|-----|----|------------------|------------------------|
|------|-------|------------|-------------|------|-----|-----------|----------------|--------------------|-----|------------|-----|----|------------------|------------------------|

LED Tubes (continued)

Remote 4 ft LED Glass Tubes (Operates on Remote Driver) (continued)

| | | | | | | | | | | | | | | |
|----|----|-------|-----------------|-----|----|----|------|-------|-----|-----|-----|-----|------|-----------------|
| T8 | 13 | 38950 | LED15T8/G/4/840 | G13 | 10 | 48 | 1800 | 4000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 13 | 38951 | LED15T8/G/4/850 | G13 | 10 | 48 | 1800 | 5000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 13 | 38952 | LED15T8/G/4/865 | G13 | 10 | 48 | 1800 | 6500K | 80+ | 50K | - | YES | Damp | Requires Driver |
| | 10 | 76194 | LED12T8/G/4/830 | G13 | 10 | 48 | 1550 | 3000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 10 | 76264 | LED12T8/G/4/835 | G13 | 10 | 48 | 1600 | 3500K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 10 | 76265 | LED12T8/G/4/840 | G13 | 10 | 48 | 1650 | 4000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 10 | 76271 | LED12T8/G/4/850 | G13 | 10 | 48 | 1650 | 5000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 10 | 76278 | LED12T8/G/4/865 | G13 | 10 | 48 | 1650 | 6500K | 80+ | 50K | - | Yes | Damp | Requires Driver |

Remote 4 ft LED Glass T5 Tubes (Operates on Remote Driver)

| | | | | | | | | | | | | | | |
|----|----|-------|-----------------|----|----|----|------|-------|-----|-----|---|-----|------|-----------------|
| T5 | 31 | 91973 | LED36T5/G/4/830 | G5 | 20 | 46 | 4100 | 3000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 31 | 91976 | LED36T5/G/4/835 | G5 | 20 | 46 | 4200 | 3500K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 31 | 91977 | LED36T5/G/4/840 | G5 | 20 | 46 | 4400 | 4000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 31 | 91997 | LED36T5/G/4/850 | G5 | 20 | 46 | 4500 | 5000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 31 | 92006 | LED36T5/G/4/865 | G5 | 20 | 46 | 4500 | 6500K | 80+ | 50K | - | Yes | Damp | Requires Driver |

Remote 3 ft LED Glass Tubes (Operates on Remote Driver)

| | | | | | | | | | | | | | | |
|----|----|-------|-----------------|-----|----|----|------|-------|-----|-----|---|-----|------|-----------------|
| T8 | 16 | 38257 | LED18T8/G/3/830 | G13 | 10 | 36 | 1800 | 3000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 16 | 38258 | LED18T8/G/3/835 | G13 | 10 | 36 | 1800 | 3500K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 16 | 38260 | LED18T8/G/3/840 | G13 | 10 | 36 | 1900 | 4000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 16 | 38261 | LED18T8/G/3/850 | G13 | 10 | 36 | 1900 | 5000K | 80+ | 50K | - | Yes | Damp | Requires Driver |

Remote 2 ft LED Glass Tubes (Operates on Remote Driver)

| | | | | | | | | | | | | | | |
|----|---|-------|----------------|-----|----|----|------|-------|-----|-----|-----|-----|------|-----------------|
| T8 | 8 | 38933 | LED9T8/G/2/830 | G13 | 20 | 24 | 1000 | 3000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 8 | 38935 | LED9T8/G/2/835 | G13 | 20 | 24 | 1000 | 3500K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 8 | 38936 | LED9T8/G/2/840 | G13 | 20 | 24 | 1100 | 4000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 8 | 38939 | LED9T8/G/2/850 | G13 | 20 | 24 | 1100 | 5000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 8 | 38943 | LED9T8/G/2/865 | G13 | 20 | 24 | 1000 | 6500K | 80+ | 50K | - | Yes | Damp | Requires Driver |

Remote 2 ft LED Glass T5 Tubes (Operates on Remote Driver)

| | | | | | | | | | | | | | | |
|----|----|-------|-----------------|----|----|----|------|-------|-----|-----|---|-----|------|-----------------|
| T5 | 13 | 76150 | LED15T5/G/2/830 | G5 | 20 | 24 | 1800 | 3000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 13 | 76164 | LED15T5/G/2/835 | G5 | 20 | 24 | 1850 | 3500K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 13 | 76129 | LED15T5/G/2/840 | G5 | 20 | 24 | 1900 | 4000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 13 | 76167 | LED15T5/G/2/850 | G5 | 20 | 24 | 1900 | 5000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 13 | 76192 | LED15T5/G/2/865 | G5 | 20 | 24 | 1900 | 6500K | 80+ | 50K | - | Yes | Damp | Requires Driver |

Remote Glass U6 Tubes (Operates on Remote Driver)

| | | | | | | | | | | | | | | |
|----|----|-------|------------------|-----|----|------|------|-------|-----|-----|---|-----|------|-----------------|
| T8 | 13 | 43131 | LED15T8/G/U6/830 | G13 | 12 | 22.5 | 1700 | 3000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 13 | 43135 | LED15T8/G/U6/835 | G13 | 12 | 22.5 | 1800 | 3500K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 13 | 43143 | LED15T8/G/U6/840 | G13 | 12 | 22.5 | 1800 | 4000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 13 | 43145 | LED15T8/G/U6/850 | G13 | 12 | 22.5 | 1800 | 5000K | 80+ | 50K | - | Yes | Damp | Requires Driver |

| | Watts | Order Code | Description | Input Volts (V) | Qty | Output Current (A) | Fre- quency | Eff | Output | Output Voltage (V) | Temp (Min) | Temp (Max) | Dimmable | Additional Information |
|--|-------|------------|-------------|-----------------|-----|--------------------|-------------|-----|--------|--------------------|------------|------------|----------|------------------------|
|--|-------|------------|-------------|-----------------|-----|--------------------|-------------|-----|--------|--------------------|------------|------------|----------|------------------------|

Remote Drivers

Lightech™ Drivers - Non-dimming

| | | | | | | | | | | | | | | |
|--|----|-------|------------------|---------|----|--------|----------|-----|----|-------|------|-------|--|-----------------------------|
| | 18 | 93100 | LED9T8/DR/UN/2L | 120-277 | 10 | 0.27x2 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | | Maximum 2 Tube (non potted) |
| | 30 | 38970 | LED15T8/DR/UN/2L | 120-277 | 10 | .44x2 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | | Maximum 2 Tube (non potted) |
| | 36 | 82347 | LED18T8/DR/UN/2L | 120-277 | 10 | 0.53x2 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | | Maximum 2 Tube (non potted) |
| | 24 | 76289 | LED12T8/DR/2L | 120-277 | 10 | .21x2 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | | Maximum 2 Tube |
| | 21 | 94384 | LED21T8/DR/1L | 120-277 | 10 | 0.62 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | | Maximum 1 Tube |
| | 42 | 94385 | LED21T8/DR/2L | 120-277 | 10 | 0.62x2 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | | Maximum 2 Tube |

Lightech™ Drivers - Dimming

| | | | | | | | | | | | | | | |
|--|-----|-------|------------------|---------|----|--------|----------|-----|----|-------|------|-------|---|----------------|
| | 42 | 28174 | LED14/DR/D3L | 120-277 | 10 | 0.43x3 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 3 Tube |
| | 24 | 76290 | LED12T8/DR/D2L | 120-277 | 10 | .21x2 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 2 Tube |
| | 48 | 76318 | LED12T8/DR/D4L | 120-277 | 10 | .21x4 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 4 Tube |
| | 30 | 38974 | LED15T8/DR/D2L | 120-277 | 10 | .44x2 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 2 Tube |
| | 60 | 38975 | LED15T8/DR/D4L | 120-277 | 10 | .44x4 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 4 Tube |
| | 36 | 88141 | LED18T8/DR/D2L | 120-277 | 10 | 0.53x2 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 2 Tube |
| | 72 | 88139 | LED18T8/DR/D4L | 120-277 | 10 | 0.53x4 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 4 Tube |
| | 42 | 60041 | LED21T8/DR/D2L | 120-277 | 10 | 0.62x2 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 2 Tube |
| | 84 | 62030 | LED21T8/DR/D4L | 120-277 | 10 | 0.62x4 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 4 Tube |
| | 45 | 34016 | LED21T8/DR/VLC2L | 120-277 | 10 | 0.62x2 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 2 Tube |
| | 72 | 63126 | LED36T8/DR/D2L | 120-277 | 10 | 1.06x2 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 2 Tube |
| | 144 | 92013 | LED36T8/DR/D4L | 120-277 | 10 | 1.06x4 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 4 Tube |

* The life rating is based on the hours of operation the lamp will provide before reaching 70% of its original lumen rating (L70).

** Minimum order quantity = 6

† Incandescent or halogen wattage equivalencies based on Energy Star guidelines using lumens or CBPB according to lamp type

†† Energy Star status: Certified as meeting Energy Star guidelines.

‡ UL 1993 Environmental Requirements for LED Lamps.






Location, damp - Exterior or interior location that is normally or periodically subject to condensation of moisture in, on, or adjacent to electrical equipment, and includes partially protected locations.

Location, dry - Location not normally subject to dampness, may include a location subject to temporary dampness, i.e., building under construction, provided ventilation is adequate to prevent an accumulation of moisture.

Location, wet - Location in which water or other liquid can drip, splash, or flow on or against electrical equipment.

Note: Product descriptions ending in "/TP" indicate a carded blister or clamshell package nested in a tray for shelf display. Cards also designed for hook display.

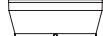




LED Lamps, Tubes and Modules


| Series | Order Code | Description | Body Color | Nominal Lumens ¹ | CCT (Kelvin) | CRI | Nominal Watts | Color Variation (MacAdam) | Rated Drive Current (mA) | Rated Life (hours) ² |
|--|------------|----------------|------------|-----------------------------|--------------|------|---------------|---------------------------|--------------------------|---------------------------------|
| Infusion™ LED Modules | | | | | | | | | | |
|  | 19192 | M1000/827/W/G4 | White | 1000 | 2700 | > 80 | 10.5 | < 4-step | 700 | 50,000 |
| | 19193 | M1000/830/W/G4 | White | 1100 | 3000 | > 80 | 10.5 | < 4-step | 700 | 50,000 |
| | 19195 | M1000/835/W/G4 | White | 1100 | 3500 | > 80 | 10.5 | < 4-step | 700 | 50,000 |
| | 19196 | M1000/930/W/G4 | White | 800 | 3000 | 90 | 10.5 | < 2-step | 700 | 50,000 |
| | 19197 | M1000/840/W/G4 | White | 1100 | 4000 | > 80 | 10.5 | < 4-step | 700 | 50,000 |
|  | 19198 | M1500/827/W/G4 | White | 1400 | 2700 | > 80 | 14.5 | < 4-step | 700 | 50,000 |
| | 19200 | M1500/830/W/G4 | White | 1500 | 3000 | > 80 | 14.5 | < 4-step | 700 | 50,000 |
| | 19201 | M1500/835/W/G4 | White | 1500 | 3500 | > 80 | 14.5 | < 4-step | 700 | 50,000 |
| | 19202 | M1500/930/W/G4 | White | 1200 | 3000 | 90 | 14.5 | < 2-step | 700 | 50,000 |
| | 19207 | M1500/840/W/G4 | White | 1500 | 4000 | > 80 | 14.5 | < 4-step | 700 | 50,000 |
|  | 19209 | M2000/827/W/G4 | White | 2000 | 2700 | > 80 | 21 | < 4-step | 1400 | 50,000 |
| | 19210 | M2000/830/W/G4 | White | 2100 | 3000 | > 80 | 21 | < 4-step | 1400 | 50,000 |
| | 19211 | M2000/835/W/G4 | White | 2200 | 3500 | > 80 | 21 | < 4-step | 1400 | 50,000 |
| | 19214 | M2000/930/W/G4 | White | 1700 | 3000 | 90 | 21 | < 2-step | 1400 | 50,000 |
| | 19215 | M2000/840/W/G4 | White | 2200 | 4000 | > 80 | 21 | < 4-step | 1400 | 50,000 |
|  | 19216 | M3000/827/W/G4 | White | 2800 | 2700 | > 80 | 29.5 | < 4-step | 1400 | 50,000 |
| | 19218 | M3000/830/W/G4 | White | 3000 | 3000 | > 80 | 29.5 | < 4-step | 1400 | 50,000 |
| | 19220 | M3000/835/W/G4 | White | 3000 | 3500 | > 80 | 29.5 | < 4-step | 1400 | 50,000 |
| | 19224 | M3000/930/W/G4 | White | 2300 | 3000 | 90 | 29.5 | < 2-step | 1400 | 50,000 |
| | 19225 | M3000/840/W/G4 | White | 3100 | 4000 | > 80 | 29.5 | < 4-step | 1400 | 50,000 |
|  | 19226 | M4500/827/W/G4 | White | 4300 | 2700 | > 80 | 46 | < 4-step | 1400 | 50,000 |
| | 19230 | M4500/830/W/G4 | White | 4500 | 3000 | > 80 | 46 | < 4-step | 1400 | 50,000 |
| | 19231 | M4500/835/W/G4 | White | 4600 | 3500 | > 80 | 46 | < 4-step | 1400 | 50,000 |
| | 19307 | M4500/930/W/G4 | White | 3600 | 3000 | 90 | 46 | < 2-step | 1400 | 50,000 |
| | 19337 | M4500/840/W/G4 | White | 4700 | 4000 | > 80 | 46 | < 4-step | 1400 | 50,000 |

¹Lumens are 'hot lumens' measured at steady state at a T_p temperature of 65°C

²Rated life refers to 70% lumen maintenance (L70).

Note: For use in dry location only or in luminaire which is designed and tested to an environmental location appropriate for intended operating conditions.


| Series | Order Code | Description | Body Color | Nominal Lumens ¹ | CCT (Kelvin) | CRI | Nominal Watts | Beam Angle (°) | Rated Drive Current (mA) | Rated Life (hours) ² |
|--|------------|-------------|------------|-----------------------------|--------------|-----|---------------|----------------|--------------------------|---------------------------------|
| Infusion™ LED Downlight Modules (DLM) | | | | | | | | | | |
|  | 99607 | DLM1000/927 | White | 1000 | 2700 | 92 | 13 | 90 | 700 | 50,000 |
| | 99608 | DLM1000/930 | White | 1000 | 3000 | 92 | 13 | 90 | 700 | 50,000 |
| | 99609 | DLM1000/935 | White | 1000 | 3500 | 92 | 13 | 90 | 700 | 50,000 |
| | 99610 | DLM1000/940 | White | 1000 | 4000 | 92 | 13 | 90 | 700 | 50,000 |
|  | 99611 | DLM1500/927 | White | 1475 | 2700 | 92 | 19 | 90 | 700 | 50,000 |
| | 99612 | DLM1500/930 | White | 1475 | 3000 | 92 | 19 | 90 | 700 | 50,000 |
| | 99613 | DLM1500/935 | White | 1475 | 3500 | 92 | 19 | 90 | 700 | 50,000 |
| | 99614 | DLM1500/940 | White | 1475 | 4000 | 92 | 19 | 90 | 700 | 50,000 |
|  | 99615 | DLM2000/927 | White | 2000 | 2700 | 92 | 25 | 90 | 700 | 50,000 |
| | 99616 | DLM2000/930 | White | 2000 | 3000 | 92 | 25 | 90 | 700 | 50,000 |
| | 99617 | DLM2000/935 | White | 2000 | 3500 | 92 | 25 | 90 | 700 | 50,000 |
| | 99618 | DLM2000/940 | White | 2000 | 4000 | 92 | 25 | 90 | 700 | 50,000 |
|  | 99619 | DLM3000/927 | White | 3000 | 2700 | 92 | 37 | 90 | 1,400 | 50,000 |
| | 99620 | DLM3000/930 | White | 3000 | 3000 | 92 | 37 | 90 | 1,400 | 50,000 |
| | 99621 | DLM3000/935 | White | 3000 | 3500 | 92 | 37 | 90 | 1,400 | 50,000 |
| | 99622 | DLM3000/940 | White | 3000 | 4000 | 92 | 37 | 90 | 1,400 | 50,000 |
|  | 99623 | DLM4000/927 | White | 3925 | 2700 | 92 | 49 | 90 | 1,400 | 50,000 |
| | 99624 | DLM4000/930 | White | 3925 | 3000 | 92 | 49 | 90 | 1,400 | 50,000 |
| | 99625 | DLM4000/935 | White | 3925 | 3500 | 92 | 49 | 90 | 1,400 | 50,000 |
| | 99626 | DLM4000/940 | White | 3925 | 4000 | 92 | 49 | 90 | 1,400 | 50,000 |


| Series | Order Code | Description | Body Color | Nominal Lumens ¹ | CCT (Kelvin) | CRI | Nominal Watts | Color Variation (MacAdam) | Rated Drive Current (mA) | Rated Life (hours) ² |
|--|------------|--------------|------------|-----------------------------|--------------|------|---------------|---------------------------|--------------------------|---------------------------------|
| Infusion™ LED Narrow Punch Modules (NPM) | | | | | | | | | | |
|  | 98471 | MP30/827/W/N | White | 1300 | 2700 | > 80 | 25 | < 4-step | 700 | 50,000 |
| | 98472 | MP30/830/W/N | White | 1400 | 3000 | > 80 | 25 | < 4-step | 700 | 50,000 |
| | 98473 | MP30/930/W/N | White | 1100 | 3000 | > 87 | 25 | < 2-step | 700 | 50,000 |
| | 98474 | MP30/840/W/N | White | 1500 | 4000 | > 80 | 25 | < 4-step | 700 | 50,000 |

¹Lumens are 'hot lumens' measured at steady state at a T_p temperature of 65°C

²Rated life refers to 70% lumen maintenance (L70).

Note: For use in dry location only or in luminaire which is designed and tested to an environmental location appropriate for intended operating conditions.

| | Order Code | Description | Body Color | Corresponding Module Series | Beam Category | Nominal Beam Angle (°) |
|---|------------------|-----------------------------------|---------------|--------------------------------|---------------------|------------------------|
| Infusion™ Optics | | | | | | |
|  | 97204 | OP1000/SP/W | White | 1000 | Spot | 14 |
| | 97205 | OP1500/SP/W | White | 1500 | Spot | 14 |
| | 97208 | OP1000/1500/FL/W OP3000/WFL/W | White | 1000 and 1500 3000 and 4500 | Flood Wide Flood | 25 / 25 35 / 35 |
| | 65294 | OP1000/1500/FL/B, OP3000/WFL/B | Black | 1000 and 1500 3000 and 4500 | Flood Wide Flood | 25 / 25 35 / 35 |
| | 98480 | OP10001500FL100W | White | 1000 and 1500 | Flood | 25 / 25 |
| | 98486 | OP10001500FL100B | Black | 1000 and 1500 | Flood | 25 / 25 |
| | 99995 | OP10001500WFL50W | White | 1000 and 1500 | Wide Flood | 25 / 25 |
| | 99996 | OP10001500WFL50B | Black | 1000 and 1500 | Wide Flood | 25 / 25 |
| | 97206 | OP1000/1500/WFL | White | 1000 and 1500 | Wide Flood | 35 / 35 |
| | 65295 | OP1000/1500/WFLB | Black | 1000 and 1500 | Wide Flood | 35 / 35 |
| | 98483 | OP10/15/WFL/100W | White | 1000 and 1500 | Wide Flood | 35 / 35 |
| | 98489 | OP10/15/WFL/100B | Black | 1000 and 1500 | Wide Flood | 35 / 35 |
| | 97207 | OP1000/1500/WFL | White | 1000 and 1500 | Very Wide Flood | 55 / 55 |
| | 65296 | OP1000/1500WFLB | Black | 1000 and 1500 | Very Wide Flood | 55 / 55 |
| | 98485 | OP10-45/WVFL100W | White | 1000, 1500, 2000, 3000, 4500 | Very Wide Flood | 55 / 55 / 55 / 55 / 55 |
| | 98491 | OP10-45/WVFL100B | Black | 1000, 1500, 2000, 3000, 4500 | Very Wide Flood | 55 / 55 / 55 / 55 / 55 |
| | 64996 | OP2000/3000/FL | White | 2000, 3000, 4500 | Flood | 25 / 25 / 25 |
| | 65297 | OP2000/3000/FL/B | Black | 2000, 3000, 4500 | Flood | 25 / 25 / 25 |
| | 98481 | OP2000/FL/100/W | White | 2000 | Flood | 25 |
| | 98487 | OP2000/FL/100/B | Black | 2000 | Flood | 25 |
| | 64995 | OP2000/WFL | White | 2000 | Wide Flood | 35 |
| | 65298 | OP2000/WFL/B | Black | 2000 | Wide Flood | 35 |
| | 98484 | OP20-45/WFL/100W | White | 2000, 3000, 4500 | Wide Flood | 35 / 35 / 35 |
| | 98490 | OP20-45/WFL/100B | Black | 2000, 3000, 4500 | Wide Flood | 35 / 35 / 35 |
| | 64994 | OP2000/3000/WVFL | White | 2000, 3000, 4500 | Very Wide Flood | 55 / 55 |
| | 65301 | OP2000/3000WVFLB | Black | 2000, 3000, 4500 | Very Wide Flood | 55 / 55 |
| | 98482 | OP30004500FL100W | White | 3000 and 4500 | Flood | 25 / 25 |
| 98488 | OP30004500FL100B | Black | 3000 and 4500 | Flood | 25 / 25 | |
| 94637 | OP30/SP/50MM/W | White | NPM | Narrow Spot | 13 | |
| 94638 | OP30/SP/50MM/B | Black | NPM | Narrow Spot | 13 | |
| 94635 | OP30/SP/75MM/G2W | White | NPM | Narrow Spot | 11 | |
| 94636 | OP30/SP/75MM/G2B | Black | NPM | Narrow Spot | 11 | |
| 94633 | OP30/SP100MM/G2W | White | NPM | Narrow Spot | 8 | |
| 94634 | OP30/SP100MM/G2B | Black | NPM | Narrow Spot | 8 | |
| 98477 | OP30/SP/75MM/W | White | NPM | Narrow Spot | 12 | |
| 98478 | OP30/SP/100MM/W | White | NPM | Narrow Spot | 10 | |
| 98475 | OP30/SP/75MM/B | Black | NPM | Narrow Spot | 12 | |
| 98476 | OP30/SP/100MM/B | Black | NPM | Narrow Spot | 10 | |

| | Order Code | Description | Body Color | Lead Insulation | Lead Length (mm) |
|---|------------|-----------------|------------|-----------------|------------------|
| Infusion™ Collar | | | | | |
|  | 61450 | MACC07HOLDERW | White | None | n/a |
| | 78835 | MACC07HOLDERB | Black | None | n/a |
| | 66233 | MHOLDERW/PVC600 | White | PVC | 600 |
| | 66232 | MHOLDERB/PVC600 | Black | PVC | 600 |

Stage and Studio Lamps

Bulb Identification 7-2

Lamp Locator 7-2

Filament Identification 7-4

Base Identification 7-4

Introduction 7-5

General Information..... 7-5

Product Information..... 7-5

Section Headings 7-6

Halogen Double-Ended..... 7-7

Halogen Single-Ended..... 7-7

Halogen Sealed Beam 7-8

CSR Metal Halide Lamps

Discharge-CSR/CSD (Daylight) Metal Halide,
Single-Ended Cold Start..... 7-9

Discharge-CSR (Daylight) Metal Halide,
Single-Ended Short Arc 7-9

Discharge-CSR (Daylight) Metal Halide,
Single-Ended Hot Restrike 7-9

Discharge-CSR (Daylight) Metal Halide,
Double-Ended Hot Restrike..... 7-9

Discharge-CSR (Daylight) Metal Halide,
Single-Ended Hot Restrike UV-Control..... 7-9

Fluorescent Cinema Lighting

Cinema Biax® 7-10

ANSI Codes 7-10

Footnotes and Safety Notices..... 7-11

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
Fluorescent

LED Lamps,
Tubes and Modules

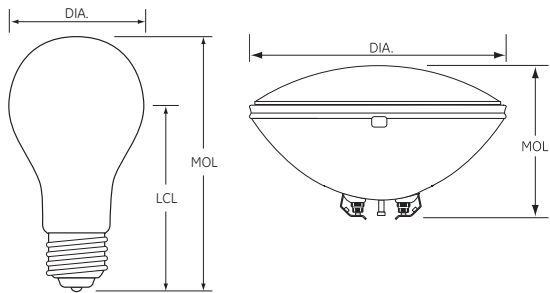
Stage and Studio

Miniature, Sealed
Beam and Automotive

Projection

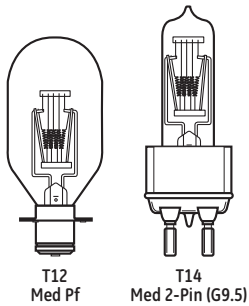
Stage and Studio Lamps

Bulb Identification

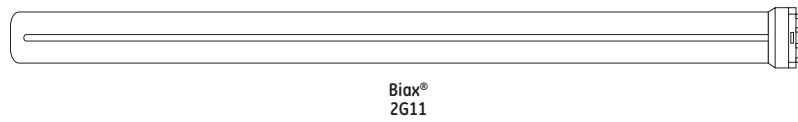


DIA: Diameter of bulb at widest point.
 MOL: Maximum Overall Length including base or pins.
 LCL: Distance between the center of the arc tube and the Light Center Length reference plane.
 Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.
 To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

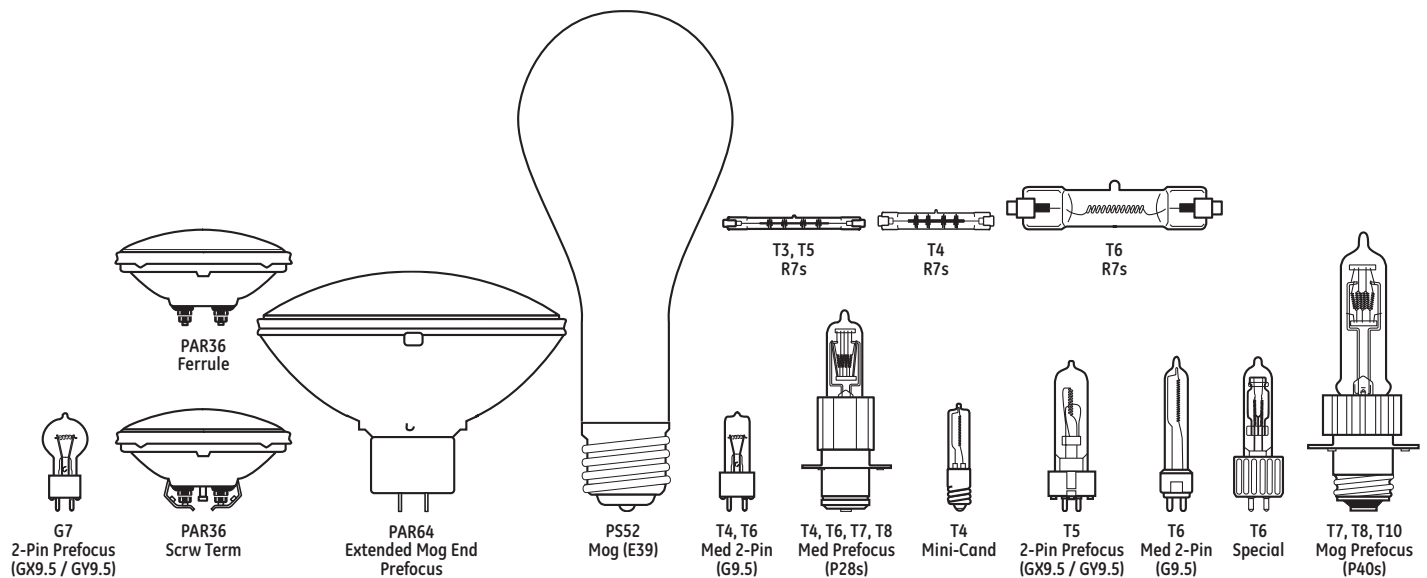
Lamp Locator



Incandescent Lamps

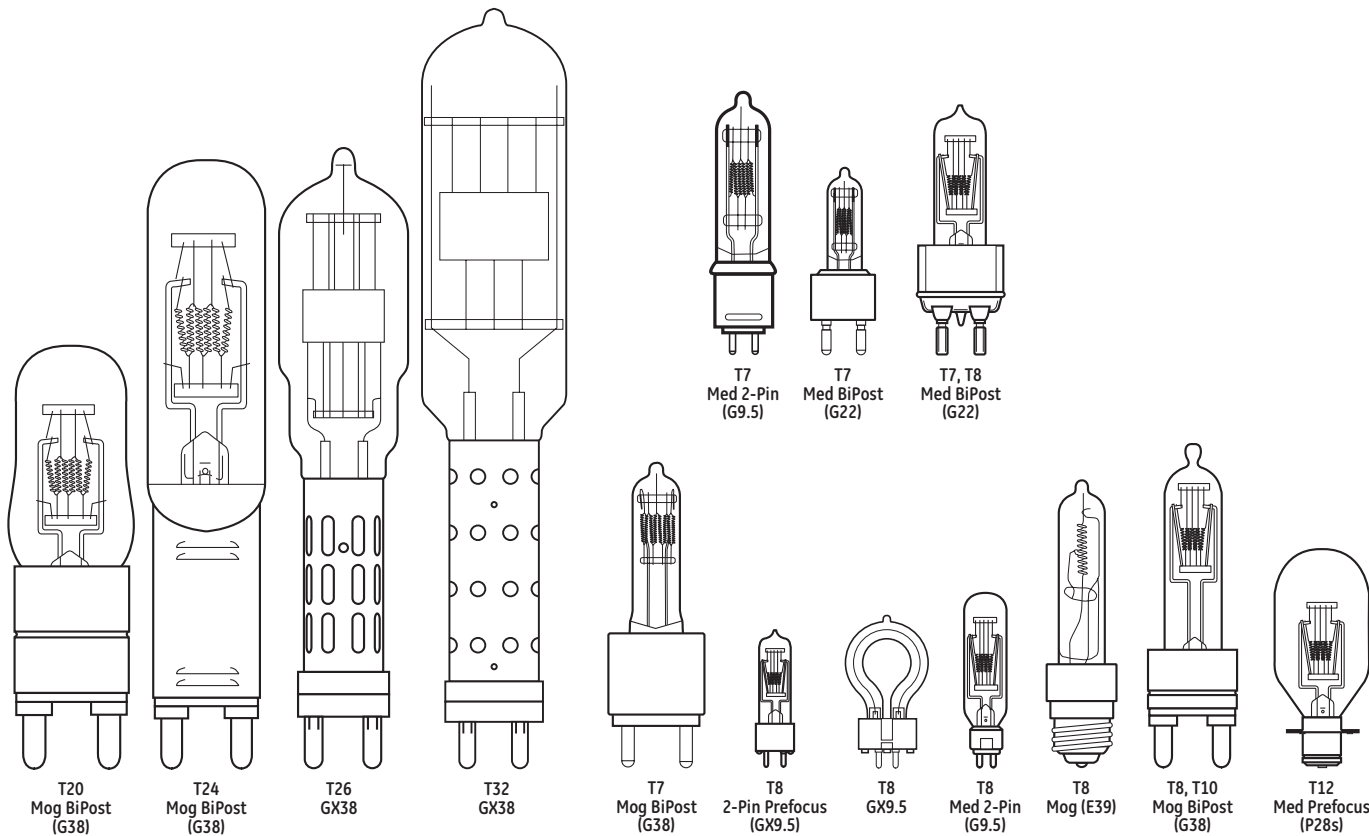


Fluorescent Cinema Lamps

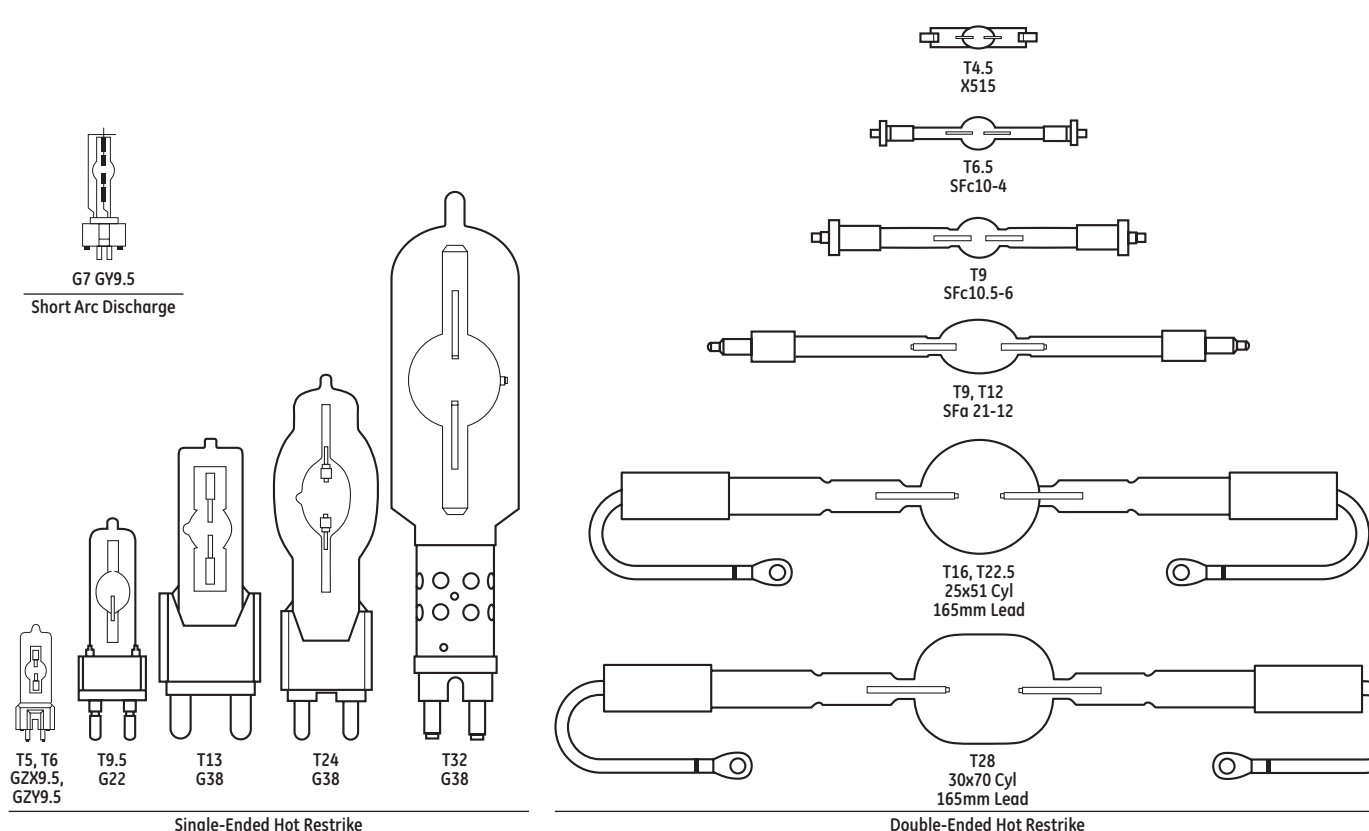


Quartzline® Tungsten Halogen

Lamp Locator (continued)

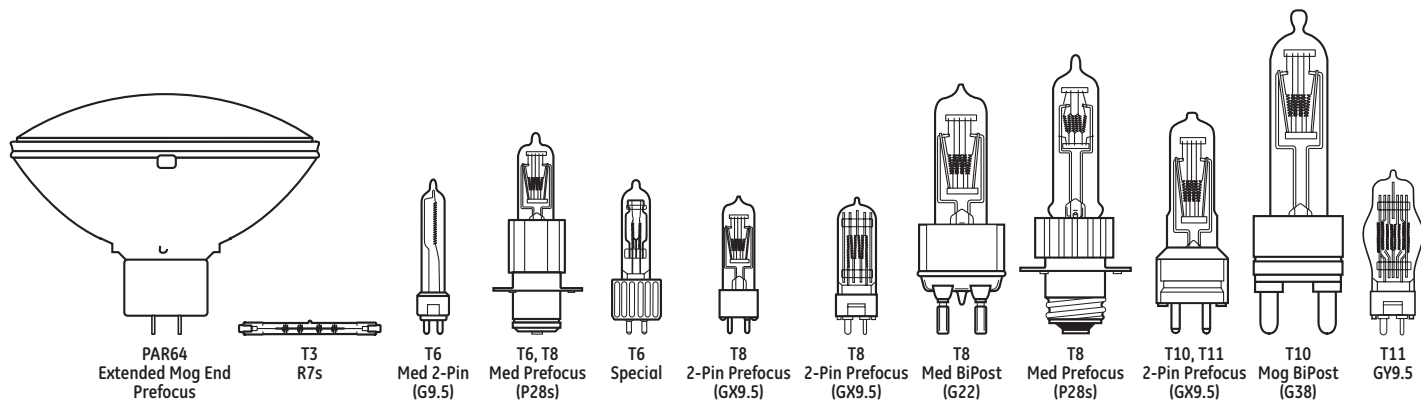


Quartzline® Tungsten Halogen (continued)



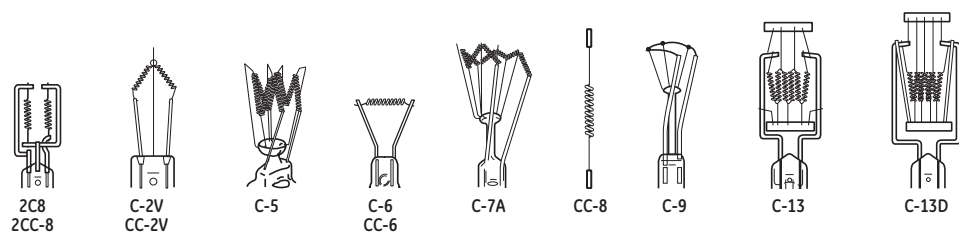
Stage and Studio Lamps

Lamp Locator (continued)

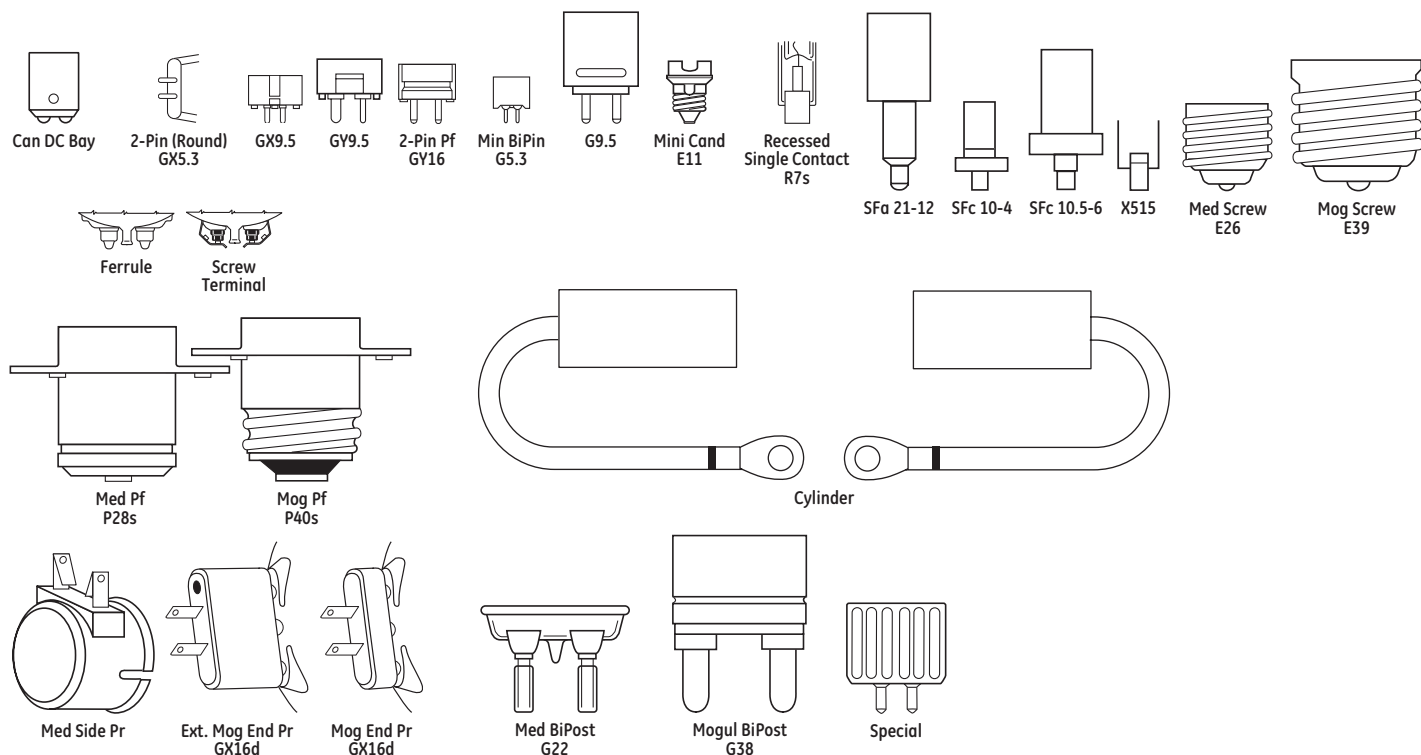


Quartzline® Tungsten Halogen High Voltage

Filament Identification



Base Identification



For the most up-to-date product information, see www.gelighting.com.

Introduction

GE has been a leading supplier to stage and studio users for many decades, and continues its pioneering work in the development of new and innovative light sources.

The primary change in recent years has been the migration from glass to quartz as the standard bulb material. The higher melting point of quartz enables bulb envelopes to be reduced in size and the halogen fillings to be run at higher pressures, leading to smaller, lighter, brighter, more energy-efficient and more reliable lamps.

GE's comprehensive range of single- and double-ended lamps is complemented by a group of PAR lamps, where the light source is enclosed in a sealed reflector unit.

The beam patterns of PAR lamps range from very narrow spot to wide-angle floods. This ensures consistency from lamp to lamp, interchangeability to suit the beam pattern needs of the moment and instant replaceability without the need to refocus and re-aim fixtures.

The sealed beam design prolongs the life of the inner lamp as well as protecting it from dust, vapor and other hazards, thereby ensuring high lumen maintenance over the life of the lamp.

PAR lamps may be used with very simple, lightweight, economical fixtures.

General Information

Operational Characteristics

Quartz halogen lamps are designed to be operated within close voltage tolerances, and excessive voltage can lead to drastically shortened life, albeit with significantly higher light output.

A second important variable is temperature. The tungsten halogen cycle does not operate properly below about 482°F (250°C) and quartz may begin to devitrify above about 1832°F (1000°C). Bulb envelopes should therefore be held in the range 482-1472°F (250-800°C).

The contact pins are plated to ensure good electrical connection with the lampholder. However, at temperatures above 350°C, the plating may lose adhesion, leading to deterioration in contact and possibly local hot spots, arcing and consequent irreparable damage to both lamp and holder. Note that if there is evidence that this has occurred, the lampholder should be replaced before the next lamp is fitted, otherwise it is likely to fail prematurely for the same reason.

Lamps normally fail by fusing of the filament. This is often followed by arcing, leading to very high currents which can cause the envelope and seals to fail and the lamp to shatter. A quick-acting, high-breaking capacity fuse should therefore be connected to the supply line in all applications. Suitable types are given in IEC 127, 241 and 269.

Chromised Seal Protection

Many Quartzline® Stage/Studio lamps have a special chromised seal protection, which allows lamp seal temperatures up to 500° C (vs traditional 350° C), which increases life and reliability.



If the package does not have this seal, lamp base temperatures for Quartzline® lamps should not exceed 350°C because, above that point, lead wires in the sealing area will deteriorate, and base cement can loosen, both causing premature lamp failure. Note overvoltageing a lamp will increase the seal heat.

Lamp Codes

GE Stage & Studio lamps are coded as such:

Lamp Description. This may be either an American National Standards Institute (ANSI) three-letter code such as EJJ, or a descriptive code in the general form Q750T3/4CL. ANSI codes are assigned to lamp specifications—mechanical, electrical and photometric characteristics—filed with the Institute.

They ensure interchangeability among similarly coded lamps from different manufacturers. Most of these lamps are rated for 120-volt operation. In a few cases a pair of ANSI codes are given (e.g. BFL/BFK), where the first is the official code for the lamp and the second code describes lamps the specifications of which are met or exceeded. In such cases, the lamps may be used to replace lamps with either code.

Base designations conform to IEC standards.

Product Information

GE CSR/CSD Metal Halide Lamps

New GE range of metal halide lamps for use in a variety of applications including TV and film, stage, concerts, photographic and large-screen presentation and color simulation.

- Excellent color rendering Ra >90
- Daylight color temperature, typically 6000K
- Universal burning position
- High efficiency up to 100 Lm/Watt
- Hot restrike and dimmable with stable color temperature
- Superior color stability
- Excellent lumen maintenance
- Use with electronic or AC magnetic ballast/ignitor control gear
- Applications include inside and outside TV and film production, stage, concerts, sporting events, photographic studios, overhead and large-screen projection and color simulation.

GE Cinema Fluorescent Lamps

- High CRI (Color Rendering Index)...traditional fluorescent lamps have not been widely used in photography and film making because of relatively low CRI and the prominent green spike found in typical fluorescent phosphors. GE Lighting Cinema 32 and Cinema 55 lamps have corrected these deficiencies with products that now have a CRI of 95 (out of 100 max.) and colors that respond to the spectral sensitivity curves of film and electronic imaging media.
- Optional Shatter Resistance...GE Cinema 32 and 55 offer the option of GE's exclusive *covRguard*® shatter resistance that helps contain glass fragments if the lamps are broken. Reduce the possibility of glass-related injuries to irreplaceable talent, damage to expensive sets, contamination of delicate equipment or missing critical deadlines because GE offers shatter resistance. GE's *covRguard*® process wraps the Cinema lamps in a full 15-ml-thick casing of GE's exclusive Lexan® polycarbonate that helps contain the glass, phosphor and chemicals if the lamp is broken. Unlike some other shatter-resistant lamps, GE's *covRguard*® lamps require no assembly.

Stage and Studio Lamps

Product Information (continued)

- Superior Light Output...the GE covRguard® process offers maximum protection with minimal light loss...the lowest loss of initial light of other shielded products.
- Dependable UV Blocking...the GE covRguard® process also offers excellent UV blocking. CovRguard® blocks 98% of the UV that is normally transmitted from an unprotected fluorescent lamp—all UVC, all UVB and most of UVA. This is critical for protecting expensive sets and wardrobe from the fading effects of UV exposure.

- Chromaticity...the Cinema 32 has a chromaticity of X=.415 and Y=.377 with a CRI of 95. The Cinema 32 mixes well with both incandescent and quartz halogen light sources without color corrections. The Cinema 55 is a broad band spectrum daylight lamp with a chromaticity of X=.325 and Y=.321 and a CRI of 96. The Cinema 55 mixes well with ambient daylight and short arc discharge HID light sources without color corrections.

For more detailed information on all GE Stage and Studio lighting order "Showbiz" 2008, PC 72475 from your GE sales representative.

Headings in this catalog section

The following terms and descriptions can help you when checking Stage/Studio lamp specifications and when ordering products. Within each product line, lamps are divided into families, within these families, lamps are then listed by wattage.

| | | | |
|---|--|---|--|
| Watts: Energy used. To find actual energy used (kWh) multiply power (watts shown) x time divided by 1000. | LIF Code: These are assigned by the Lighting Federation of London, U.K. They ensure electrical and mechanical interchangeability of similarly coded lamps. LIF codes are divided into groups according to the primary application of the lamps. | Approximate MBCP (Maximum Beam Candlepower): For reflector type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam. | Filament Type: Filaments are designated by a letter combination in which C is a coiled wire filament, CC is a coiled wire that is itself wound into a larger coil, and SR is a straight ribbon filament. Numbers represent the type of filament-support arrangement. |
| Bulb Shape: Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch). | Description: The lamp's identification code. | Design Color Temperature – Kelvins (K): A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value, the whiter or "cooler" the light appears. | MOL (in): Maximum Overall Length in inches. |
| Base: The type of base (ANSI). | ANSI Codes: These are 3-letter codes assigned by the American National Standards Institute. They provide a system of assuring mechanical and electrical interchangeability among similarly coded lamps from various manufacturers. General Electric uses the assigned ANSI Codes as Lamp Ordering Codes for most Projection Lamps. | Color Rendering Index (CRI): An indication of the ability of the lamp to render object colors in a normal, natural way. The higher the number (0-100), the better the color appearance. | Light Center Length (LCL): This dimension defines the location of the filament in relation to the base. It is measured from the geometric center of the filament to a specified point on, or plane through, the base. Light Center Length is subject to manufacturing tolerances. Reference points/planes from which LCL is measured are tabulated on page 7-4 for the various styles of lamp bases. |
| Volts: Lamp data is based on operation at rated voltage. | Pack/Case Quantity: Number of product units packed in a pack or case. | Initial Lumens: Initial light output. | Beam Spread: For reflector-type lamps. The total angle of the directed beam (in degrees) to where the intensity of the beam falls to 50% or 10% of the maximum value as indicated. |
| Order Code: It is important to use this five-digit code when ordering to ensure that you receive the exact product you require. | | | Rated Life – Hours: Lamp burning hours to rated life expectancy. |
| | | | Footnotes and Safety Notices: See pg 7-11 for information. |

| Watts | Bulb Shape | Base | Volts | Order Code | LIF Code | Description | ANSI Codes | Pack Qty | Initial Lumens | MBCP | Design Color Temp K | CRI | CIE x | Color y | Arc Length (mm) | Filament Type | MOL (in) | LCL (in) | Beam Spread 50% | | Rated Life (hrs) | Burning Position | Footnotes and Safety Notices |
|------------------------------|------------|---------------|-------|------------|----------|------------------|------------|----------|----------------|------|---------------------|-----|-------|---------|-----------------|---------------|----------|----------|-----------------|--|------------------|------------------|------------------------------|
| Quartzline® Tungsten Halogen | | | | | | | | | | | | | | | | | | | | | | | |
| 500 | T6 | Med PF (P28s) | 120 | 11966 | T17 | BTL-Q500 T6/CL/P | | 6 | 5500 | | 3200 | | | | | CC-2V | 2.43 | 1.37 | | | 50 | | 12 |

BTL-Q500 T6/CL/P

Identifies the lamp ANSI code.

Identifies the lamp's wattage. Q=Quartz Halogen

Identifies the lamp shape and the bulb diameter in eighths of inches.

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape by using tables on page 7-2.
2. Measure bulb diameter using ruler in Appendix section page D-1 to determine width in eighths of an inch.
3. Identify base type using table on page 7-4.
4. Find your lamp in the table containing the bulb shape, size and base.

| Watts | Bulb Shape | Base | Volts | Order Code | LIF Code | Description | ANSI Code | Pack Qty | Initial Lumens | Design Color Temp K | Rated Life (hrs) | Filament Type | MOL (in) | Burning Position | Footnotes and Safety Notices | |
|-----------------------------|----------------|----------------|------------------|-------------------|----------------|--------------------|---------------------|-----------------|----------------|---------------------|------------------|---------------|----------|------------------|------------------------------|---------|
| Halogen Double-Ended | | | | | | | | | | | | | | | | |
| 300 | T-3 | R7s | 120 | 43703 | | Q300T3/CL | EHM | 6 | 5950 | 2950 | 2000 | C-8 | 4.69 | H4 | 62 | |
| 500 | T-3 | | | 23731 | | Q500T3/CL | FCL | 12 | 11100 | 3000 | 2000 | C-8 | 4.69 | H4 | 62 | |
| | | | | 23744 | | Q500T3/CL/6 | | 12 | 10950 | 2950 | 1500 | C-8 | 4.69 | H4 | 62 | |
| | | | | 23735 | P2/30 | FDN-Q500T3/4CL | FDN | 12 | 13250 | 3200 | 400 | C-8 | 4.69 | H4 | 62 | |
| | | | | 23734 | P2/31 | FDN-Q500T3/4 | FDN | 12 | 12800 | 3200 | 400 | C-8 | 4.69 | H4 | 62,15 | |
| 650 | T-4 | | 130 | 23733 | | Q500T3/CL | DVS | 12 | 10550 | 3000 | 2000 | C-8 | 4.69 | H4 | 62 | |
| | | | 120 | 30325 | P2/6 | FAD-Q650T4/4CL | FAD | 24 | 16500 | 3200 | 100 | CC-8 | 3.13 | Any | 62 | |
| | | | | 23756 | - | EJG-Q750T3/4CL | EJG | 12 | 20600 | 3200 | 400 | C-8 | 4.69 | H4 | 62 | |
| | | | | 23755 | - | EMD-Q750T3/4 | EMD | 12 | 19500 | 3200 | 400 | C-8 | 4.69 | H4 | 62,15 | |
| | | | | 1000 | T-5 | 30157 | | DXW-Q1000T5/4CL | DXW | 24 | 28000 | 3200 | 150 | CC-8 | 3.75 | Any |
| 1000 | T-6 | 30374 | | FBY-Q1000T5/4 | FBY | 24 | 26000 | 3200 | 150 | CC-8 | 3.75 | Any | 62,15 | | | |
| | | 33760 | | FER-Q1000T6/4CL | FER | 6 | 27500 | 3200 | 500 | CC-8 | 5.63 | Any | 62 | | | |
| | | 23797 | P2/28 | FCM-Q1000T3/4CL | FCM | 12 | 28000 | 3200 | 400 | C-8 | 4.69 | H4 | 62 | | | |
| | | 23792 | P2/29 | FHM-Q1000T3/4 | FHM | 12 | 27300 | 3200 | 400 | C-8 | 4.69 | H4 | 62,15,31 | | | |
| | | 33280 | - | FFT-Q1000T3/1CL | FFT | 12 | 26400 | 3200 | 400 | C-8 | 6.56 | H4 | 62 | | | |
| 1500 | T-4 | 23841 | - | FDB-Q1500T4/4CL | FDB | 12 | 41250 | 3200 | 400 | C-8 | 6.56 | H4 | 62 | | | |
| 2000 | T-10 | 88629 | P2/27 | FEY-Q2000T8/4CL | FEY | 12 | 57000 | 3200 | 400 | CC-8 | 5.63 | H4 | 62 | | | |
| Halogen Single-Ended | | | | | | | | | | | | | | | | |
| 30 | T-3.5 | G5.3 | 10.8 | 37346 | | DZA | DZA | 24 | 530 | 3100 | 400 | C-6 | 2.00 | BDTHCH | 62 | |
| 375 | T-6 | G9.5/Heat Sink | 115 | 88540 | | HPL375/C 115V | | 12 | 10540 | 3250 | 300 | 4-C8 | 4.17 | Any | 62 | |
| | | | | 88539 | | HPL375/LL/C 115V | | 12 | 8000 | 3050 | 1000 | 4-C8 | 4.17 | Any | 62 | |
| 500 | T-6 | G9.5 | 120 | 88624 | | EHD-Q500CL/TP | EHD | 24 | 10,000 | 2900 | 2000 | CC-8 | 4.13 | Any | 62 | |
| | | | | 88628 | | EHC-Q500/5CL | EHC | 24 | 12,700 | 3150 | 500 | CC-8 | 4.13 | Any | 62 | |
| | | | | 88467 | CP82 | FRG-Q500T8 | FRG | 24 | 13000 | 3200 | 150 | C-13 | 3.54 | BDTH | 62 | |
| | T-8 | GY9.5 | | 88509 | | EGN-Q500T8 | EGN | 12 | 13000 | 3200 | 150 | C-13 | 5.51 | BDTH | 62 | |
| | | | | 88547 | T17 | BTL-Q500T6/CL/P | BTL | 12 | 11000 | 3000 | 500 | C-13 | 5.25 | BDTH | 62 | |
| | T-6 | P28s | | 88546 | - | BTM-Q500T6/4CL/2P | BTM | 12 | 13000 | 3200 | 150 | C-13 | 5.12 | BDTH | 62 | |
| | | | | 88617 | - | EGE-Q500CL/P | EGE | 12 | 10450 | 2950 | 2000 | CC-8 | 6.00 | Any | 62 | |
| 575 | T-6 | G9.5 | 115 | 88548 | | FLK-Q575T6 | FLK | 24 | 16500 | 3200 | 300 | CC-8 | 4.13 | Any | 62 | |
| | | | | 88452 | | FLK/LL-Q575T6 | | 24 | 12800 | 3100 | 1500 | CC-8 | 4.13 | Any | 62 | |
| | | | | 88424 | | GLA-Q575T6/4CL | GLA | 24 | 13000 | 3050 | 1500 | C-13D | 4.13 | Any | 62 | |
| | | 88423 | | | GLC-Q575T6/5CL | GLC | 24 | 14500 | 3200 | 300 | C-13D | 4.13 | Any | 62 | | |
| | | G9.5/Heat Sink | | 88438 | | HPL575/C 115V | | 12 | 16500 | 3200 | 300 | 4-C8 | 4.17 | Any | 62 | |
| | | | | 88435 | | HPL575/LL/C 115V | | 12 | 12360 | 3050 | 2000 | 4-C8 | 4.17 | Any | 62 | |
| 120 | 88434 | | HPL575/C 120V | | 12 | 16520 | 3200 | 300 | 4-C8 | 4.17 | Any | 62 | | | | |
| | 88436 | | HPL575/LL/C 120V | | 12 | 12360 | 3050 | 2000 | 4-C8 | 4.17 | Any | 62 | | | | |
| 600 | G-7 | G29.5 | 120 | 32955 | A1/264 | DYS/DVVBHC | DYS | 24 | 17000 | 3200 | 75 | CC-6 | 2.50 | BDTHCH | 62 | |
| 650 | T-8 | GY9.5 | 120 | 88462 | CP89 | FRK-Q650T8 | FRK | 24 | 16900 | 3200 | 200 | C-13 | 3.54 | BDTH | 62 | |
| 750 | T-6 | G9.5 | 115 | 88427 | | GLD-Q750T6/4CL | GLD | 24 | 19000 | 3200 | 300 | C-13D | 4.13 | Any | 62 | |
| | | | | 88426 | | GLE-Q750T6/4CL | GLE | 24 | 17400 | 3050 | 1500 | C-13D | 4.13 | Any | 62 | |
| | | | | 88437 | | HPL750/C 115V | | 12 | 22000 | 3200 | 300 | 4-C8 | 4.17 | Any | 62,7 | |
| | G9.5/Heat Sink | 88428 | | | HPL750/LL/C | | 12 | 16400 | 3050 | 2000 | 4-C8 | 4.17 | Any | 62,7 | | |
| | | 88626 | | | EHG-Q750CL/TP | EHG | 24 | 15000 | 3000 | 2000 | CC-8 | 4.13 | Any | 62 | | |
| | T-7 | G22 | | 88627 | | EHF-Q750/4CL | EHF | 24 | 20000 | 3200 | 300 | CC-8 | 4.13 | Any | 62 | |
| | | | 88621 | | EGR-Q750T7/4CL | EGR | 12 | 21000 | 3200 | 200 | C-13D | 5.00 | BDTH | 62,1 | | |
| | P28s | 88605 | - | BTN-Q750T7/CL/2P | BTN | 12 | 17600 | 3050 | 500 | C-13D | 4.75 | BD30 | 62,1 | | | |
| | | 88606 | - | BTP-Q750T7/4CL/2P | BTP | 12 | 21000 | 3200 | 200 | C-13D | 4.75 | BD30 | 62,1 | | | |
| | T-6 | P28s | 88619 | - | EGG-Q750CL/P | EGG | 12 | 15750 | 3000 | 2000 | CC-8 | 6.00 | Any | 62 | | |
| G9.5/Heat Sink | | | 230 | 88474 | | HPL750 | | 12 | 19750 | 3200 | 300 | 6-C8 | 4.17 | Any | 62,7 | |
| 1000 | T-6 | G9.5 | 120 | 88625 | CP77 | FEL-Q1000/4CL | FEL | 24 | 27500 | 3200 | 300 | CC-8 | 4.13 | Any | 62 | |
| | | | | 88622 | | EGT-Q1000T7/4CL | EGT | 12 | 28500 | 3200 | 250 | C-13D | 5.00 | BDTH | 62,1 | |
| | T-7 | G22 | | 88630 | | CVV-Q1000T7/4CL/BP | CVV | 6 | 28500 | 3200 | 200 | C-13D | 8.00 | BDTH | 62,1 | |
| | | | | G38 | 39582 | - | DKZ/DSE-Q1000PS52/4 | DKZ | 12 | 28000 | 3200 | 750 | CC-8 | 13.00 | Any | 1,62,51 |
| | ED-37 | E39 | | | 19926 | | DSE/Q1000 | DSE | 10 | 28000 | 3200 | 750 | CC-8 | 13.00 | Any | 1,62 |
| | T-7 | P28s | | 88607 | - | BTR-Q1000T7/4CL/2P | BTR | 12 | 28500 | 3200 | 250 | C-13D | 4.75 | BD30 | 62,1 | |
| | | | | 88615 | - | EGJ-Q1000/4CL/P | EGJ | 12 | 27500 | 3200 | 300 | CC-8 | 6.00 | Any | 62 | |
| | T-6 | P28s | | 88614 | - | EKG-Q1000/4P | EKG | 12 | 26500 | 3200 | 300 | CC-8 | 6.00 | Any | 62 | |
| | | | | 88608 | - | BVT-Q1000T7/CL/MP | BVT | 6 | 24500 | 3050 | 500 | C-13D | 7.25 | BDTH | 62,1 | |
| | T-7 | P40s | | 88631 | - | BVV-Q1000T7/4CL/MP | BVV | 6 | 28500 | 3200 | 200 | C-13D | 7.25 | BDTH | 62,1 | |

Stage and Studio Lamps

| Watts | Bulb Shape | Base | Volts | Order Code | LIF Code | Description | ANSI Code | Pack Qty | Initial Lumens | Design Color Temp K | Rated Life (hrs) | Filament Type | MOL (in) | Burning Position | Footnotes and Safety Notices | |
|---|------------|------|-------|------------|----------|---------------------|-------------|----------|----------------|---------------------|------------------|---------------|----------|------------------|------------------------------|----|
| Halogen Single-Ended (continued) | | | | | | | | | | | | | | | | |
| 1500 | T-10 | G38 | 120 | 88612 | | CXZ-Q1500T10/4CL | CXZ | 6 | 44500 | 3200 | 400 | C-13 | 8.50 | BDTH | 62,1 | |
| | PS-52 | E39 | | 40357 | - | DKX/DSF-Q1500PS52/4 | DKX | 12 | 41000 | 3200 | 1000 | C-8 | 13.00 | Any | 1,62,51 | |
| 2000 | T-10 | G38 | 120 | 88610 | | CYX-Q2000T10/4CL | CYX | 6 | 59000 | 3200 | 350 | C-13 | 8.50 | BDTH | 62,1 | |
| | T-8 | E39 | | 88611 | - | BWF-Q2000/4CL | BWF | 6 | 54000 | 3200 | 500 | CC-8 | 7.50 | Any | 62 | |
| | T-10 | P40s | | 88609 | CP53 | BVW-Q2000T10/4CL/MP | BVW | 6 | 59000 | 3200 | 350 | C-13 | 8.46 | BDTH | 62 | |
| 5000 | T-20 | G38 | 120 | 41736 | CP29 | DPY-Q5000T20/4CL | DPY | 6 | 143000 | 3200 | 500 | C-13 | 11.00 | BD45 | 62,1 | |
| | | | | 22959 | | HX5000 | | 6 | 147000 | 3200 | 250 | C-8 | 11.02 | Any | 62 | |
| 10000 | T-24 | G38 | 120 | 24886 | - | DTY-Q10M/T24/4CL | DTY | 4 | 290000 | 3200 | 300 | C-13 | 15.75 | BD45 | 62,1 | |
| 12000 | T-26 | GX38 | 120 | 48770 | | Q12MT26/4CL | | 1 | 420000 | 3400 | 150 | C-13 | 16.13 | BD45 | 62 | |
| | | | | 230 | 48771 | | Q12MT26/4CL | | 1 | 420000 | 3400 | 130 | C-13 | 16.13 | BD45 | 62 |
| | | | | 240 | 48779 | | Q12MT26/4CL | | 1 | 420000 | 3400 | 130 | C-13 | 16.13 | BD45 | 62 |
| 20000 | T-32 | GX38 | 208 | 48772 | | BCM-Q20MT32/4CL | BCM | 1 | 580000 | 3200 | 400 | C-13 | 22.05 | BD45 | 62 | |
| 24000 | T-32 | GX38 | 230 | 48776 | | Q24MT32/4CL | | 1 | 800000 | 3400 | 150 | C-13 | 22.05 | BD45 | 62 | |
| | | | | 240 | 48777 | | Q24MT32/4CL | | 1 | 800000 | 3400 | 150 | C-13 | 22.05 | BD45 | 62 |

| Watts | Bulb Shape | Base | Volts | Description | ANSI Code | LIF Code | Order Code | Pack Qty | MBCP | Design Color Temp K | Beam Spread 50% | | MOL (in) | Rated Life (hrs) | Footnotes and Safety Notices |
|----------------------------|-----------------|------------|------------------|------------------|-----------|----------|------------|----------|--------|---------------------|-----------------|------|----------|------------------|------------------------------|
| | | | | | | | | | | | H | V | | | |
| Halogen Sealed Beam | | | | | | | | | | | | | | | |
| 500 | PAR56 | Mog End Pr | 120 | Q500PAR56NSP | | | 43494 | 6 | 96000 | 2950 | 13 | 8 | 5 | 4000 | 63 |
| | | | 120 | Q500PAR56MFL | | | 43495 | 6 | 43000 | 2950 | 26 | 10 | 5 | 4000 | 63 |
| | | | 120 | Q500PAR56WFL | | | 43496 | 6 | 19000 | 2950 | 44 | 20 | 5 | 4000 | 63 |
| | PAR64 | ExMogEndPr | 120 | 500PAR64/NSP | | | 39406 | 12 | 110000 | 2800 | 12 | 7 | 6 | 2000 | 64 |
| | | | 120 | 500PAR64/MFL | | | 39409 | 12 | 37000 | 2800 | 23 | 11 | 6 | 2000 | 64 |
| | | | 120 | 500PAR64/WFL | | | 39412 | 12 | 13000 | 2800 | 42 | 20 | 6 | 2000 | 64 |
| | | MogEndPr | 230 | 500PAR64/MFL | | | 39411 | 12 | | 2700 | 21 | 10 | 6 | 2000 | 64 |
| 230 | 500PAR64/WFL | | | 39414 | 12 | | 2700 | 42 | 20 | 6 | 2000 | 64 | | | |
| 650 | PAR36 | Ferrule | 120 | FAY-Q650PAR36/3D | FAY | | 41668 | 12 | 36000 | 5000 | 25 | 15 | 2.75 | 30 | 63 |
| | | | 120 | FCW-Q650PAR36/6 | FCW | | 41672 | 12 | 9000 | 3200 | 60 | 55 | 2.75 | 100 | 63 |
| | | | 120 | FCX-Q650PAR36/7 | FCX | | 41673 | 12 | 24000 | 3200 | 40 | 30 | 2.75 | 100 | 63 |
| | Screw Terminals | 120 | DWE-Q650PAR36/1 | DWE | | 41667 | 12 | 24000 | 3200 | 40 | 30 | 2.75 | 100 | 63 | |
| | | 120 | FBE-Q650PAR36/5D | FBE | | 41669 | 12 | 36000 | 5000 | 25 | 15 | 2.75 | 30 | 63 | |
| | | 120 | FBO-Q650PAR36/5 | FBO | | 41671 | 12 | 67000 | 3400 | 25 | 15 | 2.75 | 30 | 63 | |
| 1000 | PAR64 | ExMogEndPr | 120 | FFN-Q1000PAR64/1 | FFN | | 13233 | 6 | 400000 | 3200 | 12 | 6 | 6 | 800 | 63 |
| | | | 120 | FFP-Q1000PAR64/2 | FFP | | 13229 | 6 | 330000 | 3200 | 14 | 7 | 6 | 800 | 63 |
| | | | 120 | FFR-Q1000PAR64/5 | FFR | | 13228 | 6 | 125000 | 3200 | 28 | 12 | 6 | 800 | 63 |
| | | | 120 | FFS-Q1000PAR64/6 | FFS | | 13227 | 6 | 40000 | 3200 | 48 | 24 | 6 | 800 | 63 |
| | | | 120 | Q1000PAR64NSP | | | 43497 | 6 | 200000 | 3000 | 15 | 8 | 6 | 4000 | 63 |
| | | | 120 | Q1000PAR64MFL | | | 43498 | 6 | 80000 | 3000 | 28 | 12 | 6 | 4000 | 63 |
| | | | 120 | Q1000PAR64/WFL | | | 43499 | 6 | 33000 | 3000 | 48 | 24 | 6 | 4000 | 63 |
| 1200 | PAR64 | ExMogEndPr | 120 | GFC-Q1200PAR64/1 | GFC | | 88487 | 6 | 540000 | 3200 | 8 | 10 | 6 | 400 | 63 |

| Watts | Bulb Shape | Base | Volts | Description | Order Code | Pack Qty | Initial Lumens | Design Color Temp K | CRI | CIE x | Color y | Arc Length (mm) | Rated Life (hrs) | LCL (in) | MOL (in) | Burning Position | Footnotes and Safety Notices |
|--|------------|-----------------|-------|--------------------|------------|----------|----------------|---------------------|-----|-------|---------|-----------------|------------------|----------|----------|------------------|------------------------------|
| CSR Metal Halide Lamps | | | | | | | | | | | | | | | | | |
| Discharge-CSR/CSD (Daylight) Metal Halide Single-Ended Cold Start | | | | | | | | | | | | | | | | | |
| 300 | | PGJX28 | 95 | CSR300/2/TAL | 76160 | 4 | 23000 | 7800 | 75+ | | | 5 | 750 | 2.64 | 4.96 | Any | 14.63 |
| 575 | T9 | GX9.5 | 97 | CSR575/2/SE | 15378 | 10 | 46000 | 7200 | 65+ | 0.302 | 0.320 | 7 | 1000 | 2.56 | 4.92 | Any | 14.63 |
| 700 | T9 | G22 | 70 | CSR700/2/SE | 49491 | 10 | 55000 | 7200 | 70+ | 0.312 | 0.325 | 7.5 | 1000 | 2.95 | 6.10 | Any | 14.63 |
| 1200 | T12 | G22 | 100 | CSR1200/2/SE | 49490 | 6 | 110000 | 7200 | 75+ | 0.305 | 0.315 | 10 | 800 | 3.35 | 6.90 | Any | 14.63 |
| 1500 | | PGJX50 | 100 | CSR1500/TAL/60/S | 74873 | 4 | 135000 | 6000 | 85+ | | | 5 | 750 | 2.56 | 5.12 | Any | 14.63 |
| Discharge-CSR (Daylight) Metal Halide, Single-Ended Short Arc | | | | | | | | | | | | | | | | | |
| 700 | G7 | GY9.5 | 70 | CSR700/SA | 15380 | 10 | 58000 | 5600 | 70+ | 0.330 | 0.342 | 4.3 | 500 | 1.53 | 3.35 | Any | 14.63 |
| 1200 | G8 | GY22 | 100 | CSR1200/SA | 21849 | 6 | 96000 | 5600 | 75+ | 0.326 | 0.330 | 7.5 | 750 | 2.32 | 5.31 | Any | 14.63 |
| Discharge-CSR (Daylight) Metal Halide, Single-Ended Hot Restrike | | | | | | | | | | | | | | | | | |
| 125 | T5 | GZ9.5 | 80 | CSR125/SE/HR | 48461 | 10 | 9400 | 5600 | 90+ | 0.323 | 0.328 | 4 | 200 | 1.53 | 2.95 | Any | 14.63 |
| 12000 | T32 | G38 | 160 | CSR12000/SE/HR | 48468 | 4 | 1100000 | 6000 | 90+ | 0.323 | 0.328 | 28 | 250 | 10.04 | 17.72 | Any | 14.63 |
| 18000 | T32 | G51 | 225 | CSR18000/SE/HR | 22496 | 1 | 1650000 | 6000 | 90+ | 0.323 | 0.328 | 35 | 250 | 10.04 | 18.00 | Any | 14.63 |
| Discharge-CSR (Daylight) Metal Halide, Double-Ended Hot Restrike | | | | | | | | | | | | | | | | | |
| 200 | T4.5 | X515 | 80 | CSR200/DE | 48450 | 10 | 16000 | 6000 | 90+ | 0.323 | 0.325 | 8 | 300 | | 2.95 | H15 | 14.63 |
| 575 | T6.5 | SfC 10-4 SI/M4 | 95 | CSR575/S/DE/70 | 70979 | 10 | 40000 | 7000 | 75+ | 0.307 | 0.309 | 7 | 750 | | 5.43 | Any | 14.63 |
| | | | 100 | CSR575/SS/DE/75 | 45231 | 10 | 44000 | 7500 | 70+ | 0.297 | 0.312 | 5 | 500 | | 3.62 | Any | 14.63 |
| 700 | T6.5 | | 70 | CSR700/S/DE/72 | 41357 | 10 | 59000 | 7200 | 75+ | 0.322 | 0.332 | 4 | 750 | | 5.43 | Any | 14.63 |
| 1200 | T6.5 | | 100 | CSR1200/S/DE/60 | 22494 | 10 | 110000 | 6000 | 90+ | 0.323 | 0.325 | 7 | 500 | | 5.43 | Any | 14.63 |
| 1500 | T6.5 | | 115 | CSR1500/S/DE/60 | 96800 | 10 | 135000 | 6000 | 85+ | 0.326 | 0.334 | 7 | 750 | | 5.43 | Any | 14.63 |
| 4000 | T12 | Sfa21-12 | 200 | CSR4000/DE | 48455 | 6 | 410000 | 6000 | 90+ | 0.323 | 0.325 | 34 | 500 | | 15.94 | H15 | 14.63 |
| 18000 | T28 | 30x70 Cyl 165mm | 225 | CSR18000/DE | 48459 | 4 | 1650000 | 6000 | 90+ | 0.323 | 0.325 | 45 | 300 | | 19.68 | H15 | 14.63 |
| Discharge-CSR (Daylight) Metal Halide, Single-Ended Hot Restrike UV Control | | | | | | | | | | | | | | | | | |
| 200 | T6 | GZ9.5 | 70 | CSR200/SE/HR/UVC | 48462 | 10 | 15000 | 5600 | 90+ | 0.323 | 0.328 | 5 | 200 | 1.53 | 3.15 | Any | 14.63 |
| 400 | T7 | GZ9.5 | 70 | CSR400/SE/HR/UVC | 21853 | 10 | 32000 | 6000 | 85+ | 0.323 | 0.320 | 6.5 | 750 | 2.38 | 4.32 | Any | 14.63 |
| 575 | T9.5 | G22 | 95 | CSR575/SE/HR/UVC | 40460 | 10 | 49000 | 5600 | 80+ | 0.330 | 0.325 | 7 | 750 | | 5.71 | Any | 14.63 |
| 800 | T9.5 | G22 | 95 | CSR800/SE/HR/UVC | 22495 | 10 | 64000 | 5600 | 90+ | 0.325 | 0.327 | 7 | 1000 | | 5.71 | Any | 14.63 |
| 1200 | T13 | G38 | 100 | CSR1200/SE/HR/UVC | 27764 | 6 | 110000 | 5600 | 90+ | 0.333 | 0.333 | 10 | 750 | | 7.87 | Any | 14.63 |
| 1800 | | G38 | 140 | CSR1800/SE/HR/UVC | 77390 | 4 | 165000 | 6000 | 90+ | 0.333 | 0.333 | 12 | 750 | | 7.87 | Any | 14.63 |
| 2500 | T19.5 | G38 | 115 | CSR2500/SE/HR/UVC | 40482 | 6 | 220000 | 5600 | 90+ | 0.330 | 0.325 | 14 | 500 | | 9.45 | Any | 14.63 |
| 4000 | T24 | G38 | 200 | CSR4000/SE/HR/UVC | 27765 | 6 | 380000 | 5600 | 90+ | 0.330 | 0.325 | 24 | 500 | | 10.24 | Any | 14.63 |
| 6000 | T26.5 | G38 | 130 | CSR6000/SE/HR/UVC | 40492 | 6 | 540000 | 5600 | 90+ | 0.333 | 0.333 | 26 | 300 | | 14.17 | Any | 14.63 |
| 9000 | T26.5 | G38 | 160 | CSR9000/SE/HR | 65852 | 6 | 875000 | 5800 | 90+ | 0.333 | 0.333 | 26 | 250 | | 14.17 | Any | 14.63 |
| 12000 | T32 | G38 | 160 | CSR12000/SE/HR/UVC | 97272 | 4 | 1100000 | 6000 | 90+ | 0.323 | 0.328 | 28 | 250 | 18.04 | 17.72 | Any | 14.63 |

Stage and Studio Lamps

| Watts | Bulb Shape | Base | Footnotes and Safety Notices | Order Code | Description | Case Qty | Lumens Initial | Design Color Temp K | MOL (in) | Rated Life (hrs) | CRI | Burning Position |
|------------------------------------|------------|------------|------------------------------|------------|-------------------|----------|----------------|---------------------|----------|------------------|-----|------------------|
| Fluorescent Cinema Lighting | | | | | | | | | | | | |
| Cinema Biax® | | | | | | | | | | | | |
| 55 | T5 | 2G11-4 PIN | 171 | 41869 | F55BX/STUDIOBIA32 | 10 | 4100 | 3200 | 21.10 | 8000 | 86 | Any |
| | | | 171 | 41873 | F55BX/STUDIOBIA56 | 10 | 4100 | 5600 | 21.10 | 8000 | 86 | Any |
| | | | 171 | 41903 | F55BX/CINPLUS/32 | 10 | 2400 | 3200 | 21.10 | 2000 | 86 | Any |
| | | | 171 | 41911 | F55BX/CINPLUS/56 | 10 | 2400 | 5600 | 21.10 | 2000 | 86 | Any |

ANSI Codes

| ANSI Code | Order Code | Volts | Lamp Description |
|-----------|------------|-------|---------------------|
| BCM | 48772 | 208 | BCM-Q20MT32/4CL |
| BCM | 48773 | 230 | BCM-Q20MT32/4CL |
| BCM | 48774 | 240 | BCM-Q20MT32/4CL |
| BTL | 11966 | 120 | BTL-Q500T6/CL/P |
| BTM | 16465 | 120 | BTM-Q500T6/4CL/2P |
| BTN | 11953 | 120 | BTN-Q750T7/CL/2P |
| BTP | 11954 | 120 | BTP-Q750T7/4CL/2P |
| BTR | 11955 | 120 | BTR-Q1000T7/4CL/2P |
| BVT | 12554 | 120 | BVT-Q1000T7/CL/MP |
| BVV | 12553 | 120 | BVV-Q1000T7/4CL/MP |
| BVW | 12555 | 120 | BVW-Q2000T10/4CL/MP |
| BWA | 39587 | 120 | BWA-Q2000/4CL/BP |
| BWF | 37086 | 120 | BWF-Q2000/4CL |
| CXZ | 37564 | 120 | CXZ-Q1500T10/4CL |
| CYV | 42697 | 120 | CYV-Q1000T7/4CL/BP |
| CYX | 36636 | 120 | CYX-Q2000T10/4CL |
| DKX | 40357 | 120 | DKX/DSF-Q1500P552/4 |
| DKZ | 39582 | 120 | DKZ/DSE-Q1000P552/4 |
| DPY | 41736 | 120 | DPY-Q5000T20/4CL |
| DSE | 19926 | 120 | DSE/Q1000 |
| DSF | 19927 | 120 | DSF/Q1500 |
| DTY | 24886 | 120 | DTY-Q10M/T24/4CL |
| DVS | 23733 | 130 | Q500T3/CL |
| DWE | 41667 | 120 | DWE-Q650PAR36/1 |

| ANSI Code | Order Code | Volts | Lamp Description |
|-----------|------------|-------|------------------|
| DXW | 30157 | 120 | DXW-Q1000T5/4CL |
| DYS | 32955 | 120 | DYS/DYV/BHC |
| DZA | 37346 | 10.8 | DZA |
| EGE | 39135 | 120 | EGE-Q500CL/P |
| EGG | 39137 | 120 | EGG-Q750CL/P |
| EGJ | 38853 | 120 | EGJ-Q1000/4/CL/P |
| EGK | 38852 | 120 | EGK-Q1000/4/P |
| EGN | 30373 | 120 | EGN-Q500T8 |
| EGR | 39190 | 120 | EGR-Q750T7/4CL |
| EGT | 39191 | 120 | EGT-Q1000T7/4CL |
| EHC | 39789 | 120 | EHC-Q500/5CL |
| EHD | 39768 | 120 | EHD-Q500CL/TP |
| EHF | 39771 | 120 | EHF-Q750/4CL |
| EHG | 39770 | 120 | EHG-Q750CL/TP |
| EHM | 43703 | 120 | Q300T3/CL |
| EJG | 23756 | 120 | EJG-Q750T3/4CL |
| EKB | 33934 | 120 | EKB-Q420/4CL/2PP |
| EMD | 23755 | 120 | EMD-Q750T3/4 |
| FAD | 30325 | 120 | FAD-Q650T4/4CL |
| FAY | 41668 | 120 | FAY-Q650PAR36/3D |
| FBE | 41669 | 120 | FBE-Q650PAR36/5D |
| FBO | 41671 | 120 | FBO-Q650PAR36/5 |
| FBY | 30374 | 120 | FBY-Q1000T5/4 |
| FCL | 23731 | 120 | Q500T3/CL |

| ANSI Code | Order Code | Volts | Lamp Description |
|-----------|------------|-------|------------------|
| FCM | 23797 | 120 | FCM-Q1000T3/4CL |
| FCW | 41672 | 120 | FCW-Q650PAR36/6 |
| FCX | 41673 | 120 | FCX-Q650PAR36/7 |
| FDB | 23841 | 120 | FDB-Q1500T4/4CL |
| FDL | 23735 | 120 | FDL-Q500T3/4CL |
| FDN | 23734 | 120 | FDN-Q500T3/4 |
| FEL | 39769 | 120 | FEL-Q1000/4CL |
| FER | 33760 | 120 | FER-Q1000T6/4CL |
| FEY | 39790 | 120 | FEY-Q2000T8/4CL |
| FFN | 13233 | 120 | FFN-Q1000PAR64/1 |
| FFP | 13229 | 120 | FFP-Q1000PAR64/2 |
| FFR | 13228 | 120 | FFR-Q1000PAR64/5 |
| FFS | 13227 | 120 | FFS-Q1000PAR64/6 |
| FFT | 33280 | 120 | FFT-Q1000T3/1CL |
| FHM | 23792 | 120 | FHM-Q1000/T3/4 |
| FLK | 11450 | 115 | FLK-Q575T6 |
| FRG | 39623 | 120 | FRG-Q500T8 |
| FRK | 39637 | 120 | FRK-Q650T8 |
| GFC | 34808 | 120 | GFC-Q1200PAR64/1 |
| GLA | 93428 | 115 | GLA-Q575T6/4CL |
| GLC | 93429 | 115 | GLC-Q575T6/5CL |
| GLD | 92771 | 115 | GLD-Q750T6/4CL |
| GLE | 92773 | 115 | GLE-Q750T6/4CL |

Footnotes and Safety Notices

- 1 Filament with low noise construction.
- 2 New Product Code. See cross reference for previous code.
- 7 Pinned base to secure correct application.
- 14 Enclosed fixture only, per UL Standard 1572. In accordance to Federal Regulations (21CFR1040.30) the following notice applies:
- WARNING:** This lamp can cause serious skin burn and eye inflammation if the outer envelope is broken or punctured, and the arc tube continues to operate. Do not use where people will remain more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available.
- 15 Apparent lighted length slightly longer than similar clear lamp.
- 27 Has blackening collector grid on only one side of filament. Unless burned base down, install lamp so grid is above filament.
- 31 GE lamp is 240 volt; 250 volt lamp specified for Colortran.
- 51 Silica coated.
- 52 Rough service. 6 filament supports.
- 55 Burn BDTH, but avoid horizontal burning with support spine beneath filament to prevent premature arcing.
- 62 **Safety Notice for exposed unshielded lamps (if shielded fixture use footnote 63)**

⚠ Warning

Risk of electrical shock

- Turn power off before inspection, installation or removal

Risk of fire

- Keep combustible materials away from lamp
- Use in enclosed fixture rated for this product

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not touch glass with bare hands
- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken
- Operate lamp only in specified position
- Do not exceed 110% of rated voltage

⚠ Caution

Risk of burn

- Allow lamp/fixture to cool before handling
- Turn power off before installing lamp

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Wear safety glasses and gloves when handling lamp

Lamp emits UV radiation which may cause eye/skin irritation. RG-2.

- Limit unshielded exposure to less than 15 minutes per day

63 Safety Notice for PAR lamps and enclosed, shielded lamps

⚠ Warning

Risk of electrical shock

- Turn power off before inspection, installation or removal

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass is broken. Remove and dispose of lamp

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken
- Do not exceed 110% of rated voltage
- Avoid direct water/liquid contact

⚠ Caution

Risk of burn

- Allow lamp/fixture to cool before handling
- Turn power off before installing lamp

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

64 High Wattage Incandescent Par Lamps

⚠ Warning

Risk of electrical shock

- Turn power off before inspection, installation, or removal

Risk of fire

- Keep combustible materials away from lamp

Unexpected lamp rupture may cause injury, fire, or property damage

- Avoid direct water/liquid contact
- Use in enclosed fixtures rated for this product

Burning Position Key

| | |
|---------------|--|
| H4 | operate horizontally +-4 degrees |
| H15 | operate horizontally +-15 degrees |
| BDTH | operate base down to horizontal |
| BDTHCH | operate base down to horizontal with filament coil axis horizontal |
| ANYCH | base in any position, but with filament coil axis horizontal |
| BD30 | base down +-30 degrees |
| BD45 | base down +-45 degrees |

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
FluorescentLED Lamps,
Tubes and Modules

Stage and Studio

Miniature, Sealed
Beam and Automotive

Projection

Miniature, Sealed Beam and Automotive Lamps

North American Vehicles 8-7

Nighthawk® Automotive Lighting 8-9

Long Life and Discharge Automotive Lighting8-11

Heavy Duty Truck and Automotive Lighting8-13

Assortment Architecture Matrix.....8-15

Cross Reference8-17

Lamp Locator8-19

Miniature Bases8-20

Sealed Beam Lamps8-20

Sealed Beam Bases8-20

Introduction8-21

Section Headers.....8-22

Lamps

 Miniature Lamps8-22

 Sealed Beam and Automotive Lamps8-31

Footnotes8-34

Warning and Caution Notices8-35

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
Fluorescent

LED Lamps,
Tubes and Modules

Stage and Studio

Miniature, Sealed
Beam and Automotive

Projection

GE LIGHTING: INNOVATING TECHNOLOGY

A revolutionary advance from a leader in automotive lighting.

Every technological advance we make is backed by our global reputation as a trusted partner, and an unwavering commitment to the customers we serve. With a wide variety of quality options, you can be sure that there is a GE Automotive lighting product for everything on wheels.



GE HAS THE RIGHT LIGHT FOR YOUR VEHICLE



| Product Product Producto | Feature Feature Características | Benefit Benefit Beneficios | Miniatures Miniatures Miniaturas | Sealed Beam Faisceau étanche Haz sellado | Fog Feu de brouillard Faro antiniebla | Halogen Composite Composite Halogène Compuestos Halógenos |
|--------------------------------|---|--|--|--|---|---|
| GE NIGHTHAWK™ LED | Superior LED technology Superior technologie LED Superior tecnología LED | Bright, white light that's virtually maintenance-free Lumineux, lumière blanche et pratiquement sans entretien Luz blanca brillante que es virtualmente libre de mantenimiento | | ✓ | | |
| GE NIGHTHAWK™ Xenon | HID caliber performance and style HID performance de calibre et de style HID calidad rendimiento y estilo | Exceptional visibility Une visibilité exceptionnelle Visibilidad excepcional | | | | ✓ |
| GE NIGHTHAWK™ Platinum | Up to 90% more light* Jusqu'à 90% de lumière en plus* Hasta un 90% más de luz* | Better visibility during night time driving Une meilleure visibilité en conduite de nuit Una mejor visibilidad durante la noche conducción | | | | ✓ |
| GE NIGHTHAWK™ Sport | Crisp, blue-white light Croustillant, bleu-blanc lumineux Crespo, luz blanca azulada | Increased contrast provides improved visibility Augmentation du contraste fournit une meilleure visibilité Mayor contraste para una mayor visibilidad | | ✓ | | ✓ |
| GE NIGHTHAWK™ | Up to 50% more light* Jusqu'à 50% de lumière en plus* Hasta un 50% más de luz* | Improved visibility during night time driving Visibilité améliorée pendant la nuit lors de la conduite Mejora de la visibilidad durante la noche conducción | ✓ | ✓ | ✓ | ✓ |
| Long Life | 2-6x the life of a standard** 2-6x plus longue durée de vie** Ya 2-6x vida** | Save time and money, less maintenance Économisez du temps et de l'argent, moins de maintenance Ahorre tiempo y dinero, menor mantenimiento | ✓ | ✓ | | ✓ |
| Standard | High quality OE value Haute qualité OE valeur OE valor Alta calidad | Dependable performance Performances fiables Rendimiento fiable | ✓ | ✓ | ✓ | ✓ |

*GE NIGHTHAWK™ halogen lamps focus more light in an area illuminated with more than 15,000 candelas in light intensity compared to a standard halogen headlamp bulb. Specific light levels vary by bulb type and headlamp assembly. See page 8-14 for illustration.

**Long Life lamps last up to 2-6x longer when compared to standard GE halogen lamps.

REVOLUTIONARY HEADLIGHT PERFORMANCE



GE NIGHTHAWK™ XENON: Get closer to the look and feel of HID lighting without the cost or hassle of conversion.

Few things attract an auto enthusiast's gaze like the cutting-edge look of HID headlamps. That is, until they see the high cost of conversion. Now there's a revolutionary solution that delivers performance and style close to HID-caliber lighting at a fraction of the cost: GE NIGHTHAWK™ XENON headlamps.

- up to **120%** more light*
- bright white light
- breakthrough performance
- exceptional visibility

GE NIGHTHAWK™ PLATINUM: High performance lamps for visibility, convenience and style.

No matter the nighttime driving conditions, GE NIGHTHAWK™ PLATINUM headlamps give you a better chance of seeing – and reacting to – what's ahead of you. The bottom line is: with more light on the road, you'll have more peace of mind.

- up to **90%** more light*
- improved reaction time
- greater visibility

THE RIGHT LIGHT

FOR NEARLY EVERYTHING ON WHEELS















| | GE NIGHTHAWK™ LED: 15,000 HOUR LAMP | GE NIGHTHAWK™ XENON: UP TO 120% MORE LIGHT** | GE NIGHTHAWK™ PLATINUM: UP TO 90% MORE LIGHT** | GE NIGHTHAWK™ SPORT: UP TO 50% MORE LIGHT** |
|-----------------|---|--|---|--|
| Feature/Benefit | <ul style="list-style-type: none"> 3 yrs warranty* bright white light exceptional visibility | <ul style="list-style-type: none"> up to 120% more light* bright white light breakthrough performance exceptional visibility | <ul style="list-style-type: none"> up to 90% more light* improved reaction time greater visibility | <ul style="list-style-type: none"> up to 50% more light* more visibility blue white color |
| Available in: | LED 7" RND, LED 200 RECT, LED 4.5" RND | 9003, 9005, 9006, 9007, H1, H4, H7, H11 | 9003, 9004, 9005, 9006, 9007, H1, H4, H7, H11, H13 | 9003, 9004, 9005, 9006, 9007, H7, H13, H4656, H4666, H6024, H6054 |

*GE NIGHTHAWK™ halogen lamps focus more light in an area illuminated with more than 15,000 candelas in light intensity compared to a standard halogen headlamp bulb. Specific light levels vary by bulb type and headlamp assembly. See page 8-14 for illustration.

Miniature, Sealed Beam and Automotive Lamps



| GE NIGHTHAWK™: UP TO 50% MORE LIGHT** | LONG LIFE: 2-6X LONGER LIFE** | STANDARD | HID |
|---|--|---|--|
| <p>up to</p>  <p>50% more light*</p>  <p>improved reaction time</p>  <p>more visibility</p> |  <p>OEM quality</p>  <p>2-6X longer life*</p>  <p>less time on maintenance</p> |  <p>smart value</p>  <p>OEM quality</p> <p>meets</p>  <p>DOT requirements</p> |  <p>exceptional visibility</p>  <p>lasting performance</p>  <p>white light</p> |
| <p>9003, 9004, 9005, 9006, 9007, H1, H4, H7, H13, H4656, H4666, H6024, H6054</p> | <p>9003, 9004, 9005, 9006, 9007, H1, H7, H11, H5024, H5051, H5054, H5062</p> | <p>9003, 9004, 9005, 9006, 9007, 9008, H1, H3, H4, H7, H9, H11, H4656, H4666, H6024, H6054</p> | <p>D1S, D2R, D2S, D2S BLUE</p> |

Feature / Benefit

Available in:

*GE NIGHTHAWK™ halogen lamps focus more light in an area illuminated with more than 15,000 candelas in light intensity compared to a standard halogen headlamp bulb. Specific light levels vary by bulb type and headlamp assembly. See page 8-14 for illustration.
 **Long Life lamps last up to 2-6x longer when compared to standard GE halogen lamps.

North American Vehicles Véhicules d'Amérique du Nord Vehículos Norteamericanos

FRONT VIEW VUE DE FACE VISTA FRONTAL



Headlights and Discharge Lamps - Phares avant/Lampes à décharge
Faros y Lámparas de Descarga

Front Turn/Hazard - Feux clignotants avant/Détresse - Giro/Emergencia

Fog - Feux antibrouillards - Niebla

Dashboard - Tableau de bord - Tablero de Instrumentos

Side Marker - Feu de gabarit - Lateral

Side Marker - Feu de gabarit - Lateral

| | | |
|-----|----|------|
| 161 | 37 | 1893 |
| 194 | 74 | |

Headlights and Discharge Lamps - Phares avant/Lampes à décharge - Faros y Lámparas de Descarga

| | | | | | | | | | | | | |
|------|------|------|------|------|----|----|----|-----|-----|----|-----|-----|
| 9003 | 9004 | 9005 | 9006 | 9007 | H4 | H7 | H9 | H11 | H13 | D1 | D2S | D2R |
|------|------|------|------|------|----|----|----|-----|-----|----|-----|-----|

| | | | | | | | |
|----------------|----------------|-------|----------------|-------|-------|-------|-------|
| H4351 H4352 | H4701 H4703 | H4651 | H4656 H4666 | H5001 | H5006 | H6024 | H6054 |
|----------------|----------------|-------|----------------|-------|-------|-------|-------|

Front Turn/Hazard - Feux clignotants avant/
Détresse - Giro/Emergencia

| | | | |
|--------------|------------------|--------------|------------------|
| 2157 2057 | 1157NA 2057NA | 3057 3157 | 3057NA 3157NA |
|--------------|------------------|--------------|------------------|

Fog - Feux antibrouillards - Niebla

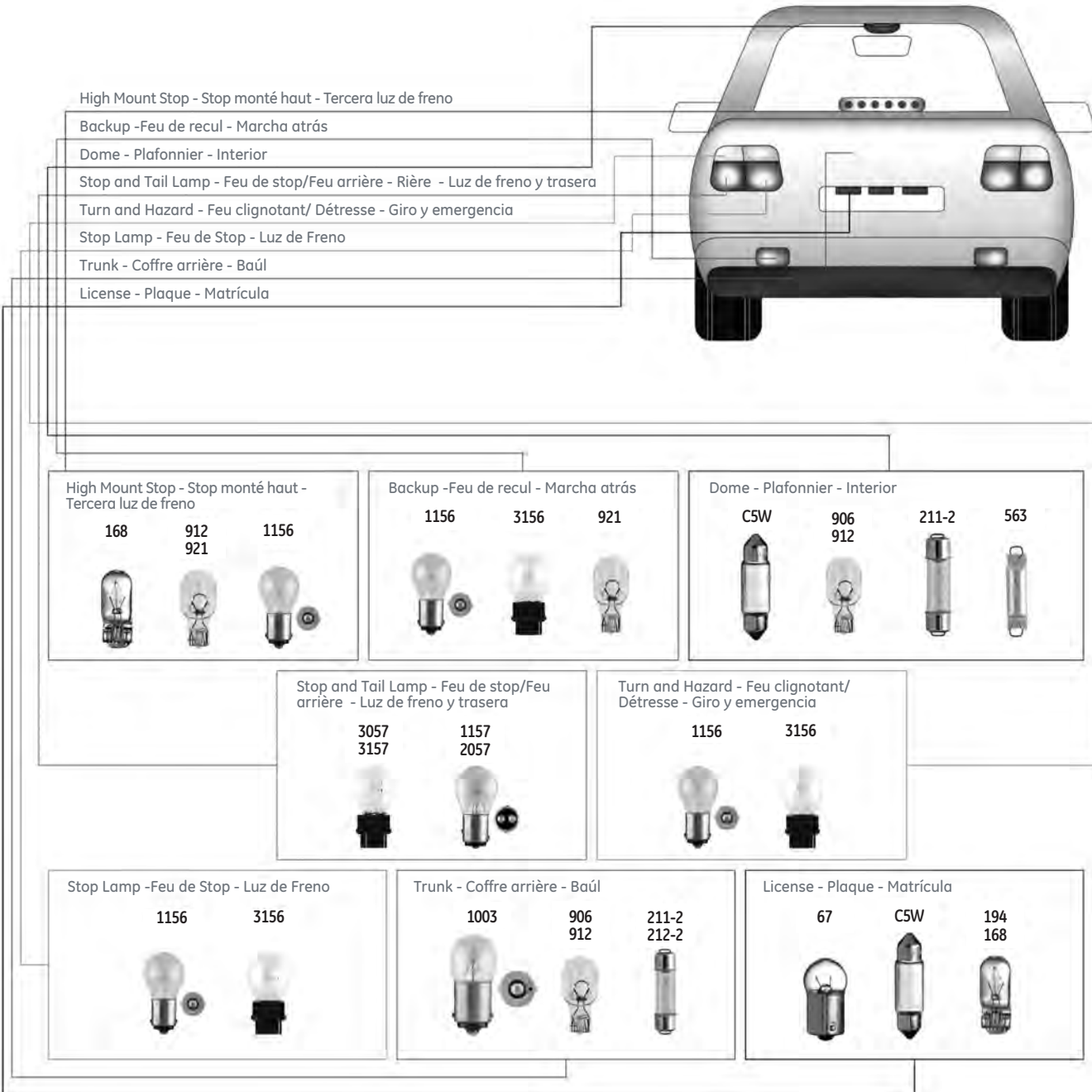
| | | | |
|----|----|-----------------|------|
| H1 | H3 | 880 885 893 | 9145 |
|----|----|-----------------|------|

Dashboard - Tableau de bord
Tablero de Instrumentos

| | |
|-----|-------|
| 194 | 194NA |
|-----|-------|

Miniature, Sealed Beam and Automotive Lamps

REAR VIEW
VUE DE DOS
VISTA POSTERIOR



GE NIGHTHAWK™ Automotive Lighting Éclairage Automobile GE NIGHTHAWK™ Iluminación para automóviles GE NIGHTHAWK™

GE NIGHTHAWK LED™: 15,000 Hour Lamp

| Product Code | Lamp Description | Direct Replacement For | Color | Meets DOT Requirements | Lamps/ Card | Cards/ Inner | Cards/ Master |
|--------------|------------------|--|-------|------------------------|-------------|--------------|---------------|
| 69821 | NH LED 7" RND | 6012, 6014, 6015, 6016, 6017, H5024, H6024 | 5600K | ✓ | 1 | 6 | 24 |
| 69822 | NH LED 200 RECT | 6052, 6053, H5054, H6054 | 5600K | ✓ | 1 | 6 | 24 |
| 69823 | NH LED 4.5" RND | Coming 2014 | 5600K | ✓ | 1 | 6 | 24 |



GE NIGHTHAWK™ XENON: Up to 120% More Light†

| Product Code | Lamp Description | Lamps/ Card | Cards/ Inner | Cards/ Master |
|--------------|------------------|-------------|--------------|---------------|
| 69861 | 9003 NHX/BP2 | 2 | 3 | 12 |
| 69862 | 9005 NHX/BP2 | 2 | 3 | 12 |
| 69863 | 9006 NHX/BP2 | 2 | 3 | 12 |
| 69864 | 9007 NHX/BP2 | 2 | 3 | 12 |
| 69857 | H1 NHX/BP2 | 2 | 3 | 12 |
| 69858 | H4 NHX/BP2 | 2 | 3 | 12 |
| 69860 | H7 NHX/BP2 | 2 | 3 | 12 |
| 69865 | H11 NHX/BP2 | 2 | 3 | 12 |



GE NIGHTHAWK™ PLATINUM: Up to 90% More Light††

| Product Code | Lamp Description | Lamps/ Card | Cards/ Inner | Cards/ Master |
|--------------|------------------|-------------|--------------|---------------|
| 75814 | 9003NHP/BP2 | 2 | 3 | 12 |
| 75815 | 9004NHP/BP2 | 2 | 3 | 12 |
| 75816 | 9005NHP/BP2 | 2 | 3 | 12 |
| 75817 | 9006NHP/BP2 | 2 | 3 | 12 |
| 75818 | 9007NHP/BP2 | 2 | 3 | 12 |
| 78134 | H1-55NHP/BP2 | 2 | 3 | 12 |
| 75820 | H4-60NHP/BP2 | 2 | 3 | 12 |
| 75821 | H7-55NHP/BP2 | 2 | 3 | 12 |
| 62267 | H11-55NHP/BP2 | 2 | 3 | 12 |
| 62430 | H13NHP/BP2 | 2 | 3 | 12 |



†GE NIGHTHAWK™ XENON headlamps focus up to 120% more light on the road - flux projected to area with more than 15,000 candelas in light intensity compared to a standard halogen headlamp bulb. Specific light levels vary by bulb type and headlamp assembly.

††GE NIGHTHAWK™ PLATINUM headlamps focus up to 90% more light on the road - flux projected to area with more than 15,000 candelas in light intensity compared to a standard halogen headlamp bulb. Specific light levels vary by bulb type and headlamp assembly.

Miniature, Sealed Beam and Automotive Lamps

GE NIGHTHAWK SPORT™: Up to 50% More Light†

| Product Code | Lamp Description | Lamps/ Card | Cards/ Inner | Cards/ Master |
|--------------|------------------|-------------|--------------|---------------|
| 89139 | 9003NHS/BP | 1 | 3 | 24 |
| 66004 | 9003NHS/BP2 | 2 | 3 | 12 |
| 97698 | 9004NHS/BP | 1 | 3 | 24 |
| 97699 | 9004NHS/BP2 | 2 | 3 | 12 |
| 89140 | 9005NHS/BP | 1 | 3 | 24 |
| 66005 | 9005NHS/BP2 | 2 | 3 | 12 |
| 97700 | 9006NHS/BP | 1 | 3 | 24 |
| 97701 | 9006NHS/BP2 | 2 | 3 | 12 |
| 97696 | 9007NHS/BP | 1 | 3 | 24 |
| 97697 | 9007NHS/BP2 | 2 | 3 | 12 |
| 89141 | H7-55NHS/BP | 1 | 3 | 24 |
| 66006 | H7-55NHS/BP2 | 2 | 3 | 12 |
| 78654 | H13NHS/BP2 | 2 | 3 | 12 |
| 97695 | H4656NHS | 1 | - | 6 |
| 97694 | H4666NHS | 1 | - | 6 |
| 97693 | H6024NHS | 1 | - | 6 |
| 97692 | H6054NHS | 1 | - | 6 |



GE NIGHTHAWK™ Composite Headlamps: Up to 50% More Light on the Road‡

| Product Code | Lamp Description | Lamps/ Card | Cards/ Inner | Cards/ Master |
|--------------|------------------|-------------|--------------|---------------|
| 25150 | 9003NH/BP | 1 | 3 | 24 |
| 25107 | 9003NH/BP2 | 2 | 3 | 12 |
| 25149 | 9004NH/BP | 1 | 3 | 24 |
| 25106 | 9004NH/BP2 | 2 | 3 | 12 |
| 25148 | 9005NH/BP | 1 | 3 | 24 |
| 25105 | 9005NH/BP2 | 2 | 3 | 12 |
| 25147 | 9006NH/BP | 1 | 3 | 24 |
| 25104 | 9006NH/BP2 | 2 | 3 | 12 |
| 25146 | 9007NH/BP | 1 | 3 | 24 |
| 25103 | 9007NH/BP2 | 2 | 3 | 12 |
| 25159 | H1-55NH/BP | 1 | 3 | 24 |
| 25092 | H1-55NH/BP2 | 2 | 3 | 12 |
| 25094 | H4-60NH/BP1 | 1 | 3 | 24 |
| 25095 | H7-55NH/BP2 | 2 | 3 | 12 |
| 25160 | H7-55NH/BP | 1 | 3 | 24 |
| 78653 | H13NH/BP2 | 2 | 3 | 12 |



GE NIGHTHAWK™ Fog Lamps: Up to 30% More Light on the Road‡

| Product Code | Lamp Description | Lamps/ Card | Cards/ Inner | Cards/ Master |
|--------------|------------------|-------------|--------------|---------------|
| 25163 | 880NH/BP | 1 | 3 | 24 |
| 25101 | 880NH/BP2 | 2 | 3 | 12 |
| 25172 | 893NH/BP | 1 | 3 | 24 |
| 25102 | 893NH/BP2 | 2 | 3 | 12 |

GE NIGHTHAWK™ Sealed Beam Headlamps: Up to 30% More Light on the Road‡

| Product Code | Lamp Description | Lamps/ Card | Cards/ Inner | Cards/ Master |
|--------------|------------------|-------------|--------------|---------------|
| 25098 | H4656NH | 1 | - | 6 |
| 28157 | H4666NH | 1 | - | 6 |
| 28153 | H6024NH | 1 | - | 6 |
| 25097 | H6054NH | 1 | - | 6 |

†GE NIGHTHAWK™ SPORT halogen lamps focus up to 50% more light in an area illuminated with more than 15,000 candelas in light intensity compared to a standard halogen headlamp bulb.

‡These GE NIGHTHAWK™ lamps focus 30%-50% more light in an area illuminated with more than 15,000 candelas in light intensity compared to a standard halogen headlamp bulb. Specific light levels vary by bulb type and headlamp assembly. See page 8-14 for light distribution illustration.

Long Life and Discharge Automotive Lighting Long Life et Éclairage Automobile de Décharge Iluminación para Automóviles Long Life y Descarga

Long Life Headlamps: 2-6X Longer Life**

| Product Code | Lamp Description | Lamps/ Card | Cards/ Inner | Cards/ Master |
|--------------|------------------|-------------|--------------|---------------|
| 78935 | 9003LL/BP | 1 | 6 | 48 |
| 13993 | 9004LL/BP | 1 | 6 | 48 |
| 45866 | 9005XSLL/BP | 1 | 6 | 48 |
| 45868 | 9006XSLL/BP | 1 | 6 | 48 |
| 78639 | 9007LL/BP | 1 | 6 | 48 |
| 12777 | H1-LL | 1 | - | 300 |
| 78640 | H7-55LL/BP | 1 | 6 | 48 |
| 89255 | H11-55LL/BP | 1 | 6 | 48 |
| 19428 | H5024 | 1 | - | 6 |
| 19411 | H5051 | 1 | - | 6 |
| 19429 | H5054 | 1 | - | 6 |
| 19412 | H5062 | 1 | - | 6 |



HID

Ordering information

| Description | Characteristic | Watts | Color Temperature | Packaging | Product Code |
|-------------|--------------------------------|-------|-------------------|------------|--------------|
| D1S Unit | HID projection beam | 35 | 4200K | 1/4/12 box | 78734 |
| D2R Unit | HID reflector beam | 35 | 4000K | 1/6/24 box | 80851 |
| D2R Bulk | HID reflector beam | 35 | 4000K | 144 bulk | 46911 |
| D2S Unit | HID projection beam | 35 | 4200K | 1/6/24 box | 25088 |
| D2S Bulk | HID projection beam | 35 | 4200K | 144 bulk | 48504 |
| D2S Blue | Off road only - no highway use | 35 | 5100K | 1/32 box | 90057 |



**Long Life lamps last up to 2-6x longer when compared to standard GE halogen lamps.

Miniature, Sealed Beam and Automotive Lamps

Standard Headlamps

| Product Code | Lamp Description | Lamps/ Card | Cards/ Inner | Cards/ Master |
|--------------|------------------|-------------|--------------|---------------|
| 22389 | 9003 | 1 | - | 100 |
| 22432 | 9003/BP | 1 | 6 | 48 |
| 72252 | 9003/BP2 | 2 | - | 4 |
| 13382 | 9004 | 1 | - | 100 |
| 18508 | 9004/BP | 1 | 6 | 48 |
| 14604 | 9004/BP2 | 2 | - | 6 |
| 13384 | 9005 | 1 | - | 100 |
| 18509 | 9005/BP | 1 | 6 | 48 |
| 13397 | 9006 | 1 | - | 100 |
| 18510 | 9006/BP | 1 | 6 | 48 |
| 25135 | 9006/BP2 | 2 | - | 4 |
| 20551 | 9007 | 1 | - | 100 |
| 22388 | 9007/BP | 1 | 6 | 48 |
| 25136 | 9007/BP2 | 2 | - | 4 |
| 71342 | 9008 (H13)/BP | 1 | 6 | 48 |
| 40843 | 9145/BP | 1 | 6 | 48 |
| 40336 | H1-55/BP | 1 | 6 | 48 |
| 12339 | H3-55/BP | 1 | 6 | 48 |
| 12341 | H3-100/BP | 1 | 6 | 48 |
| 27334 | H4-60/55 | 1 | - | 10 |
| 18132 | H4-60/55/BP | 1 | 6 | 48 |
| 89256 | H4-60MS/BP | 1 | 3 | 24 |
| 26374 | H7-55/BP | 1 | 6 | 48 |
| 29047 | H8-35W BP | 1 | 6 | 48 |
| 29049 | H9-65W BP | 1 | 6 | 48 |
| 23762 | H11-55/BP | 1 | 6 | 48 |
| 18533 | H4656 | 1 | - | 6 |
| 18535 | H4666 | 1 | - | 6 |
| 18525 | H6024 | 1 | - | 6 |
| 18534 | H6054 | 1 | - | 6 |



Standard Fog Lamps

| Product Code | Lamp Description | Product Code | Lamp Description |
|--------------|------------------|--------------|------------------|
| 12320 | 880/BP | 22112 | 894/BP |
| 12334 | 881/BP | 22113 | 896/BP |
| 12335 | 885/BP | 98093 | 898/BP |
| 14689 | 886/BP | 22111 | 899/BP |
| 12336 | 889/BP | 40843 | 9145/BP |
| 12337 | 890/BP | 40336 | H1-55/BP |
| 12308 | 891/BP | 12339 | H3-55/BP |
| 12338 | 893/BP | 12341 | H3-100/BP |



Heavy Duty Truck Automotive Lighting Éclairage Automobile de Camions Iluminación de Alto Rendimiento para Camiones

GE NIGHTHAWK LED™: 15,000 Hour Lamp

| Product Code | Lamp Description | Direct Replacement For | Color | Meets DOT Requirements | Lamps/Card | Cards/Inner | Cards/Master |
|--------------|------------------|--|-------|------------------------|------------|-------------|--------------|
| 69821 | NH LED 7" RND | 6012, 6014, 6015, 6016, 6017, H5024, H6024 | 5600K | ✓ | 1 | 6 | 24 |
| 69822 | NH LED 200 RECT | 6052, 6053, H5054, H6054 | 5600K | ✓ | 1 | 6 | 24 |
| 69823 | NH LED 4.5" RND | Coming 2014 | 5600K | ✓ | 1 | 6 | 24 |



Long Life Headlamps: 2-6X Longer Life**

| Product Code | Lamp Description | Lamps/Card | Cards/Inner | Cards/Master |
|--------------|------------------|------------|-------------|--------------|
| 78935 | 9003LL/BP | 1 | 6 | 48 |
| 13993 | 9004LL/BP | 1 | 6 | 48 |
| 45866 | 9005XSLL/BP | 1 | 6 | 48 |
| 45868 | 9006XSLL/BP | 1 | 6 | 48 |
| 78639 | 9007LL/BP | 1 | 6 | 48 |
| 12777 | H1-LL | 1 | - | 300 |
| 78640 | H7-55LL/BP | 1 | 6 | 48 |
| 89255 | H11-55LL/BP | 1 | 6 | 48 |
| 19411 | H5051 | 1 | - | 6 |
| 19412 | H5062 | 1 | - | 6 |
| 19428 | H5024 | 1 | - | 6 |
| 19429 | H5054 | 1 | - | 6 |



**Long Life lamps last up to 2-6x longer when compared to standard GE halogen lamps.

Miniature, Sealed Beam and Automotive Lamps

Standard Replacement Sealed Beam Lamps

| Product Code | Lamp Description | Product Code | Lamp Description | Product Code | Lamp Description |
|--------------|------------------|--------------|----------------------|--------------|----------------------|
| 18511 | 4000 | 25114 | 6006 | 18525 | H6024 |
| 24448 | 4411 | 18519 | 6014 | 28153 | H6024NH* |
| 24454 | 4412 | 38416 | 6015 | 18534 | H6054 |
| 24460 | 4412A | 18521 | 6052 | 14752 | H6054HO ^o |
| 24478 | 4414 | 22386 | H4351 | 25097 | H6054NH* |
| 22982 | 4415 | 22387 | H4352 | 43576 | H7604 |
| 24499 | 4415A | 18532 | H4656 | 49695 | H7612 |
| 24539 | 4421 | 14753 | H4656HO ^o | 45058 | H7621-1 |
| 24572 | 4434A | 18535 | H4666 | 13426 | H7921-1 |
| 18517 | 4651 | 28157 | H4666NH* | 16484 | H9415 |
| 18518 | 4652 | 18536 | H4701 | 17988 | H9415A |
| 24973 | 4800 | 18538 | H4703 | 16976 | H9420 |
| 45110 | 4912-1 | 18522 | H5001 | 16482 | H9421 |
| 45116 | 4921-1 | 18523 | H5006 | | |

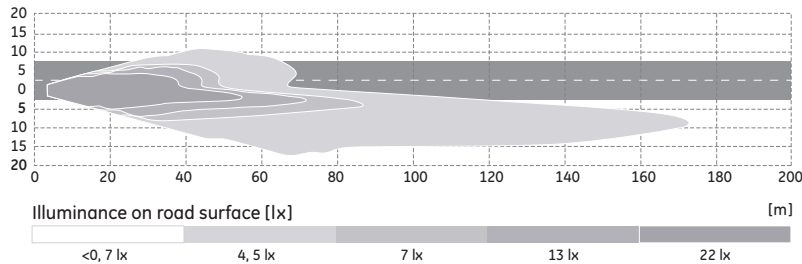


Standard Replacement Headlamps

| Product Code | Lamp Description | Product Code | Lamp Description | Product Code | Lamp Description |
|--------------|------------------|--------------|------------------|--------------|------------------|
| 22432 | 9003/BP | 45866 | 9005XSSL/BP | 27342 | H4-75/70 |
| 25150 | 9003NH/BP* | 18510 | 9006/BP | 26374 | H7-55/BP |
| 18508 | 9004/BP | 25147 | 9006NH/BP* | 29049 | H9 65W BP |
| 25149 | 9004NH/BP* | 45868 | 9006XSSL/BP | 23762 | H11-55/BP |
| 18509 | 9005/BP | 22388 | 9007/BP | 80851 | D2R UNIT |
| 25148 | 9005NH/BP* | 25146 | 9007NH/BP* | 25088 | D2S UNIT |
| | | 27334 | H4-60/55 | 78734 | D1S UNIT |



GE NIGHTHAWK™ PLATINUM



* GE NIGHTHAWK™ halogen lamps focus more light in an area illuminated with more than 15,000 candelas in light intensity compared to a standard halogen headlamp bulb. Specific light levels vary by bulb type and headlamp assembly.

^o High Output headlamps offer increased light output over standard halogen.

Assortment Architecture Matrix Assortiment D'ampoules Surtido De Arquitectura De Matriz

HID Discharge • HID Décharge • HID Descarga

| Bulb Type Type D'ampoule Tipo De Lápara | Projection Beam Faisceau de projection Proyección del Haz | Reflector Beam Réflecteur Reflector de Haz | Off Road Only - No Highway Hors route uniquement - Pas sur route Sólo Off Road - Momentos de Peligro |
|---|---|--|--|
| D1S | D1S | - | - |
| D2R | - | D2R | - |
| D2S | D2S | - | D2SBlue & D2S Superblue |

Halogen Composite • Halogène Composit • Halógeno Compuesto

| Bulb Type Type D'ampoule Tipo De Lápara | Long Life La Fiabilité Fiabilidad | GE NIGHTHAWK™ | GE NIGHTHAWK™ SPORT | GE NIGHTHAWK™ PLATINUM | GE NIGHTHAWK™ XENON |
|---|---|---------------|------------------------|---------------------------|------------------------|
| 9003 | 9003LL | 903NH | 9003NHS | 9003NHP | 9003NHX |
| 9004 | 9004LL | 9004NH | 9004NHS | 9004NHP | - |
| 9005 | 9005LL | 9005NH | 9005NHS | 9005NHP | 9005NHX |
| 9006 | 9006LL | 9006NH | 9006NHS | 9006NHP | 9006NHX |
| 9007 | 9007LL | 9007NH | 9007NHS | 9007NHP | 9007NHX |
| 9005XS | 9005XSLL | - | - | - | - |
| 9006XS | 9006XSLL | - | - | - | - |
| H1-55 | - | H1-55NH | - | H1-55NHP | H1-55NHX |
| H4-60 | - | H4-60NH | - | H4-60NHP | H4-60NHX |
| H7-55 | H7-55LL | H7-55NH | H7-55NHS | H7-55NHP | H7-55NHX |
| H11-55 | H11-55LL | H11-55NH | H11-55NHS | H11-55NHP | H11-55NHX |
| H13 (9008) | - | H13NH | H13NHS | H13NHP | - |

Halogen Sealed Beam • Halogène Faisceau Scelle • Halógeno Sellado Rayo

| Bulb Type Type D'ampoule Tipo De Lápara | Long Life La Fiabilité Fiabilidad | GE NIGHTHAWK™ | GE NIGHTHAWK™ SPORT |
|---|---|---------------|------------------------|
| H4656, H4656LL, H4740, 4652, HP4656 | H4656LL | H4656NH | H4656NHS |
| H6054, H6054LL, H6059, 6052, 6053, HP6054, H5054 | H6054LL | H6054NH | H6054NHS |
| H4666 HP4666, H6545, HP6545 | - | H4666NH | H4666NHS |
| H6024, H6026LL, 6014, 6015, 6016 | H6024LL | H6024NH | H6024NHS |
| 4651, H4651, H5051? | H5051 | - | - |
| 4652, H4656, H4662, 4739, H5062?, H5024? | H5062 | - | - |
| 6012, 6014, 6015, 6016, 6017, H6024, H6026 | H5024 | - | - |
| 6052, 6053, H6054 | H5054 | - | - |

Miniature, Sealed Beam and Automotive Lamps

Assortment Architecture Matrix Assortiment D'ampoules Surtido De Arquitectura De Matriz

Miniature • Miniature • Miniatura

| Lamp | Standard OEM Standard OEM Estándar OEM | | Long Life La fiabilidad Fiabilidad | | GE NIGHTHAWK™ | | Popular Applications |
|--------|--|------------------|--|------------------|---------------|------------------|---|
| | Product Code | Lamp Description | Product Code | Lamp Description | Product Code | Lamp Description | |
| 67 | 25652 | 67 | - | - | 71895 | 67 NH/BP2 | License, Cargo • Plaque, Cargo • Licencia, de Cargo |
| 89 | 12363 | 89/BP2 | 47797 | 89LL/BP2 | - | - | Instrument, License, Step/Courtesy, Underhood • Instrument, Plaque, Pied/Courtoisie, Sous le Capot • Instrumento, de Licencia, Paso/Coresía, Debajo del Capó |
| 93 | 25811 | 93 | - | - | 71904 | 93 NH/BP2 | Underhood, Backup • Sous le Capot, Backup • Bajo el Capó, de Copia de Seguridad |
| 161 | 23016 | 161/BP2 | - | - | 71902 | 161 NH/BP2 | Instrument • Instrument • Instrumento |
| 168 | 12327 | 168/BP2 | 47827 | 168LL/BP2 | 89239 | 168NH/BP2 | License, Courtesy, Map, Cargo, High Mount Stop • Plaque de Courtoisie, Carte, Cargo, Haute Arrêtez le Mont • Licencia, de Cortesía, Mapa, de Cargo, Alta Detener el Monte |
| 194 | 12328 | 194/BP2 | 25832 | 194LL/BP2 | 89240 | 194NH/BP2 | Instrument, License, Dome, Sidemarker • Instrument, Licnce, Dome, Sidemarker • Instrumento, Licencia, Cúpula, Sidemarker |
| 194NA | 12319 | 194NA/BP2 | 47794 | 194NA/LL/BP2 | 71894 | 194NA NH/BP2 | Front Sidemarker • Sidemarker Avant • Sidemarker Frente |
| 211-2 | 12673 | 211-2/BP2 | - | - | 71900 | 211-2 NH/BP2 | Cargo, Trunk, Dome • Cargo, Tranc, Dome • De Cargo, del Tranco, la Cúpula |
| 912 | 12365 | 912/BP2 | - | - | 89242 | 912NH/BP2 | Dome, High Mount Stop, Cargo • Dome, Butée Haute Montagne, Cargo • Dome, Parada de Alta Montaña, de Cargo |
| 921 | 12307 | 921/BP2 | - | - | 89238 | 921NH/BP2 | Backup, High Mount Stop, Cargo • Sauvegarde, Butée Haute Montagne, Cargo • Copia de Seguridad, Parada de Alta Montaña, de Cargo |
| 922 | 23027 | 922/BP2 | - | - | 71903 | 922 NH/BP2 | High Mount Stop, Courtesy • Butée Haute Montagne, Courtoisie • Parada de Alta Montaña, Cortesía |
| 1003 | 12367 | 1003/BP2 | 47800 | 1003LL/BP2 | - | - | License, Underhood • Plaque, Sous le Capot • Licencia, Debajo del Capó |
| 1073 | 26838 | 1073 | - | - | 71905 | 1073 NH/BP2 | Directional, Stop and Backup • Directionnel, Stop et de Sauvegarde • Deje de Dirección y Copia de Seguridad |
| 1141 | 12346 | 1141/BP2 | 47802 | 1141LL/BP2 | 71897 | 1141 NH/BP2 | Directional, Stop and Backup • Directionnel, Stop et de Sauvegarde • Deje de Dirección y Copia de Seguridad |
| 1154 | 12297 | 1154/BP2 | - | - | 71889 | 1154NH/BP2 | Directional, Stop and Tail Lamp • Directionnel, Stop et de Sauvegarde, et Feux Arriá • Deje de Dirección, Copia de Seguridad, Luces Traseras |
| 1156 | 12344 | 1156/BP2 | 23334 | 1156LL/BP2 | 89241 | 1156NH/BP2 | Directional, Stop and Backup • Directionnel, Stop et de Sauvegarde • Deje de Dirección y Copia de Seguridad |
| 1157 | 12294 | 1157/BP2 | 23337 | 1157LL/BP2 | 89236 | 1157NH/BP2 | Directional, Stop and Tail Lamp • Directionnel, Stop et de Sauvegarde, et Feux Arriá • Deje de Dirección, Copia de Seguridad, Luces Traseras |
| 1157NA | 12310 | 1157NA/BP2 | 47798 | 1157NALL/BP2 | 71891 | 1157NA NH/BP2 | Directional, Parking Lamp • Directionnel, Feu de Stationnement • Directionales, Luz de Estacionamiento |
| 1895 | 12330 | 1895/BP2 | - | - | 71896 | 1895 NH/BP2 | Instrument, Sidemarker • Instrument, Sidemarker • Instrumento, Sidemarker |
| 2057 | 12296 | 2057/BP2 | 23339 | 2057 LL/BP2 | 89237 | 2057NH/BP2 | Directional, Stop and Tail Lamp • Directionnel, Stop et de Sauvegarde, et Feux Arriá • Deje de Dirección, Copia de Seguridad, Luces Traseras |
| 2057NA | 12312 | 2057NA/BP2 | 47799 | 2057NALL/BP2 | 71892 | 2057NA NH/BP2 | Directional, Parking Lamp • Directionnel, Feu de Stationnement • Directionales, Luz de Estacionamiento |
| 2357 | 12298 | 2357/BP2 | - | - | 71890 | 2357NH/BP2 | Directional, Stop and Tail Lamp • Directionnel, Stop et de Sauvegarde, et Feux Arriá • Deje de Dirección, Copia de Seguridad, Luces Traseras |
| 3057 | 12305 | 3057/BP2 | 26378 | 3057LL/BP2 | 89243 | 3057NH/BP2 | Directional, Stop and Tail Lamp • Directionnel, Stop et de Sauvegarde, et Feux Arriá • Deje de Dirección, Copia de Seguridad, Luces Traseras |
| 3156 | 12351 | 3156/BP2 | 27565 | 3156LL/BP2 | 71898 | 3156 NH/BP2 | Backup, Cornering, Directional • Directionnel, Sauvegarde, les Virages • Copia de Seguridad, en Curvas, Directionnel |
| 3157 | 12306 | 3157/BP2 | 26377 | 3157LL/BP2 | 89244 | 3157NH/BP2 | Directional, Stop and Tail Lamp • Directionnel, Stop et de Sauvegarde, et Feux Arriá • Deje de Dirección, Copia de Seguridad, Luces Traseras |
| 3157NA | 12314 | 3157NA/BP2 | 26380 | 3157NA/LL/BP2 | 71893 | 3157NA NH/BP2 | Directional, Parking Lamp • Directionnel, Feu de Stationnement, Avant Sidemarker • Directionales, Luz de Estacionamiento, Frente Sidemarker |
| 3457 | 14387 | 3457/BP2 | 26379 | 3457/LL/BP2 | 71901 | 3457 NH/BP2 | Directional, Stop and Tail Lamp • Directionnel, Stop et de Sauvegarde, et Feux Arriá • Deje de Dirección, Copia de Seguridad, Luces Traseras |
| 4157 | - | - | 15657 | 4157LL/BP2 | - | - | Directional, Stop and Tail Lamp • Directionnel, Stop et de Sauvegarde, et Feux Arriá • Deje de Dirección, Copia de Seguridad, Luces Traseras |
| 4157NA | - | - | 47458 | 4157NA/LL/BP2 | - | - | Directional, Parking Lamp • Directionnel, Feu de Stationnement • Directionales, Luz de Estacionamiento |
| 7443 | 26201 | 7443/BP2 | - | - | 89248 | 7443NH/BP2 | Directional, Stop and Tail Lamp • Directionnel, Stop et de Sauvegarde, et Feux Arriá • Deje de Dirección, Copia de Seguridad, Luces Traseras |
| DE3175 | 12354 | DE3175/BP2 | - | - | 89245 | DE3175NH/BP2 | Dome, Courtesy • Dome, Courtoisie • Dome, Cortesía |
| P21W | 23306 | P21W/BP2 | - | - | 89247 | P21W NH/BP2 | Directional, Stop and Backup • Directionnel, Stop et de Sauvegarde • Deje de Dirección y Copia de Seguridad |
| P21/SW | 23303 | P21/SW/BP2 | - | - | 89246 | P21/SW NH/BP2 | Directional, Stop and Tail Lamp • Directionnel, Stop et de Sauvegarde, et Feux Arriá • Deje de Dirección, Copia de Seguridad, Luces Traseras |

Cross Reference Tables Tableau de Renvoi Referencias Cruzadas

Headlamps Phares - Raros

| GE | OSRAM | PHILIPS | WAGNER |
|----------|------------|------------|----------|
| H1-55 | H1 | H1-55W | 1255/H1 |
| H7-55 | H7 | H7-55W | 1255/H7 |
| H9-65 | H9W | H9-65W | 1265/H9 |
| H11-55 | H11 | H11 | 1255/H11 |
| H13 | H13 (9008) | H13 (9008) | 9008 |
| 4000 | 4000 | 4000 | 4000 |
| 4001 | 5001 | 5001 | 5001 |
| 4040 | 4040 | 4040 | 4040 |
| H4351 | H4351 | H4351 | H4351 |
| H4352 | H4352 | H4352 | H4352 |
| 4651 | 4651 | 4651 | 4651 |
| H4651 | H4651 | H4651 | H4651 |
| H4651 | H4651 | H4651 | HP4651 |
| 4652 | 4652 | 4652 | 4652 |
| H4656 | H4656 | H4656 | H4656 |
| H4656 | H4656 | H4656 | HP4656 |
| H4666 | H4666 | H4666 | H6545 |
| H4666 | H4666 | H4666 | HP6545 |
| H4701 | H4701 | H4701 | H4701 |
| H4703 | H4703 | H4703 | H4703 |
| H5001 | H5001 | H5001 | H5001 |
| H5006 | H5006 | H5006 | H5006 |
| H5024 | - | H6017LL | H6024LL |
| H5054 | H6054LL | H6054LL | H6054LL |
| 6006 | 6006 | 6006 | 6006 |
| 6014 | 6014 | 6014 | 6014 |
| 6015 | 6015 | 6015 | 6015 |
| H6024 | H6024 | H6017 | H6024 |
| 6052 | 6052 | 6052 | 6052 |
| H6054 | H6054 | H6054 | H6054 |
| H6054 | H6054 | H6054 | HP6054 |
| 9003 | 9003 | 9003 | 9003 |
| 9004 | 9004 | 9004 | 9004 |
| 9004LL | 9004LL | 9004LL | 9004LL |
| 9005 | 9005 | 9005 | 9005 |
| 9005LL | 9005 | 9005LL | 9005LL |
| 9005XSLL | 9005XS | 9005XS | 9005XS |
| 9005XSLL | 9005XS | 9005XSLL | 9005XS |
| 9006 | 9006 | 9006 | 9006 |
| 9006HO | 9006LL | 9006LL | 9006LL |
| 9006XSLL | 9006XS | 9006XS | 9006XS |
| 9006XSLL | 9006XS | 9006XSLL | 9006XSLL |
| 9007 | 9007 | 9007 | 9007 |
| 9007LL | 9007LL | 9007LL | 9007LL |
| 9011 | - | 9011 | 9011 |
| 9012 | - | - | - |



Miniature Lamps Ampoules Miniatures - Lámparas En Miniatura

| GE | OSRAM | PHILIPS | WAGNER |
|---------|---------|---------|---------|
| 12 | 12 | 12 | 12 |
| 24 | 24 | 24 | 24 |
| 24NA | 24NA | 24NA | 24NA |
| 37 | 37 | 37 | 37 |
| 53 | 53 | 53 | 53 |
| 57 | 57 | 57 | 57 |
| 67 | 67 | 67 | 67 |
| 68 | 68 | 68 | 68 |
| 70 | 70 | 70 | 70 |
| 73 | 73 | 73 | 73 |
| 74 | 74 | 74 | 74 |
| 89 | 89 | 89 | 89 |
| 90 | 90 | 90 | 90 |
| 93 | 93 | 93 | 93 |
| 94 | 94 | 94 | 94 |
| 97 | 97 | 97 | 97 |
| 98 | 98 | 98 | 98 |
| 105 | 105 | 105 | 105 |
| 158 | 158 | 194 | 158 |
| 161 | 161 | 161 | 161 |
| 168 | 168 | 168 | 168 |
| 193 | 193 | 193 | 193 |
| 194 | 194 | 194 | 194 |
| 194B | 194B | 194B | 194B |
| 194G | 194G | 194G | 194G |
| 194NA | 194NA | 194NA | 194NA |
| 194NALL | 194NALL | 194NALL | 194NALL |
| 194R | 194R | 194R | 194R |
| 198 | 1157 | 198 | 198 |
| 199 | 199 | 199 | 199 |
| 211-2 | 211-2 | 211-2 | 211-2 |
| 212-2 | 212-2 | 212-2 | 212-2 |
| 214-2 | 214-2 | 214-2 | 214-2 |
| 293 | 293 | 293 | 293 |
| 330 | 330 | - | 330 |
| 558 | - | 558 | 558 |
| 561 | 561 | 561 | 561 |
| 562 | 562 | 562 | 562 |
| 563 | 563 | 563 | 563 |
| 570 | 570 | 570 | - |
| 577 | 577 | 577 | - |
| 631 | 631 | 631 | 631 |
| 658 | 658 | 658 | 658 |
| 756 | 756 | - | 756 |
| 880 | 880 | 880 | 880 |
| 880LL | 880 | 880 | 880 |
| 881 | 881 | 881 | 881 |
| 881LL | 881 | 881 | 881 |
| 882 | 882 | 882 | 882 |
| 885 | 885 | 885 | 885 |
| 886 | 886 | 886 | 886 |

Miniature, Sealed Beam and Automotive Lamps

Cross Reference Tables Tableau de Renvoi Referencias Cruzadas



Miniature Lamps Ampoules Miniatures - Lámparas En Miniatura

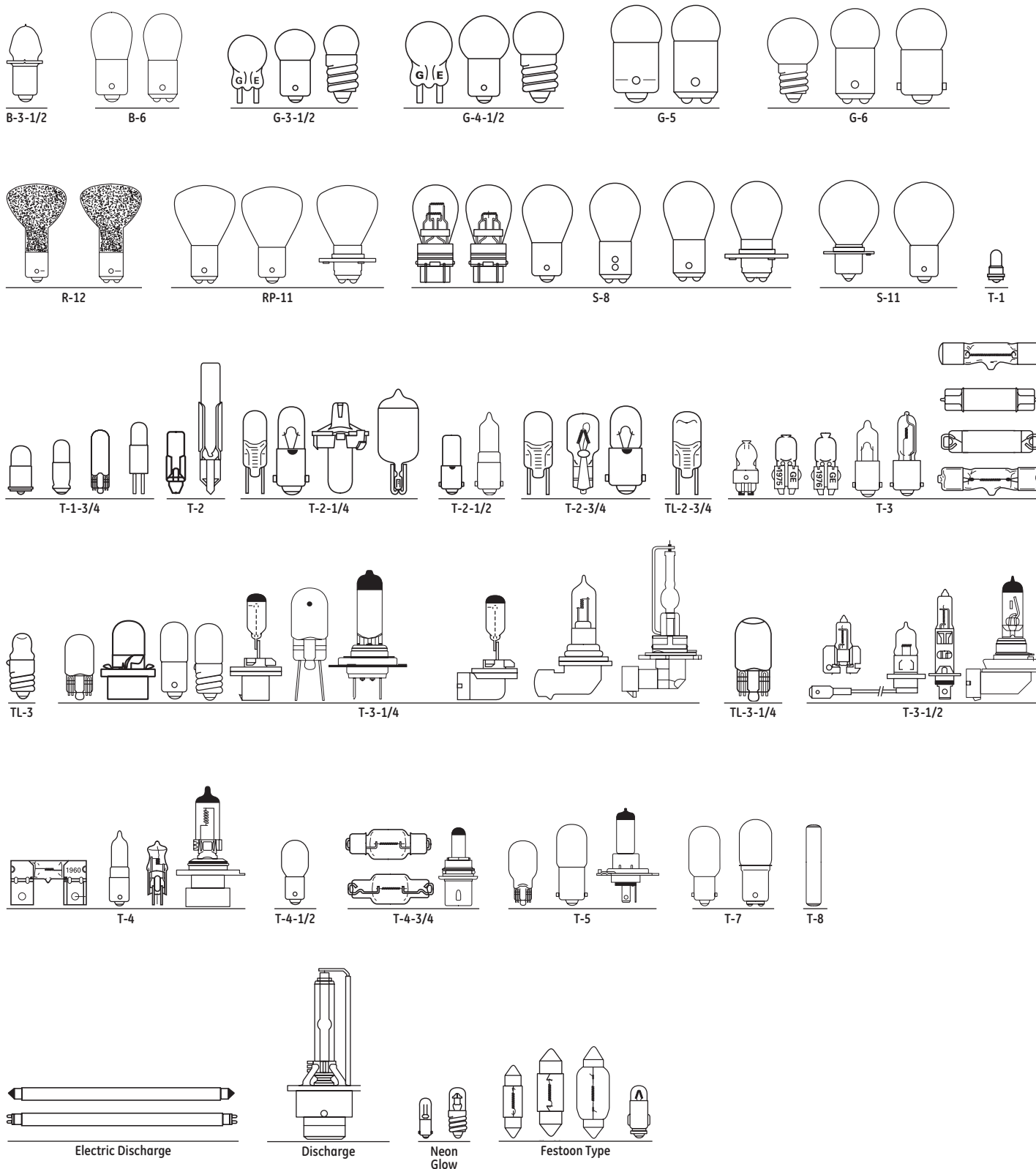
| GE | OSRAM | PHILIPS | WAGNER |
|--------|--------|---------|--------|
| 889 | 889 | 889 | 889 |
| 890 | 890 | 890 | 890 |
| 891 | 891 | 891 | 891 |
| 892 | 892 | 892 | - |
| 893 | 893 | 893 | 893 |
| 894 | 894 | 894 | 894 |
| 896 | 896 | 896 | 896 |
| 898 | 898 | 898 | 898 |
| 899 | 899 | 899 | 899 |
| 904 | 904 | 904 | 904 |
| 906 | 906 | 906 | 906 |
| 912 | 912 | 912 | 912 |
| 916 | 916 | 916 | 916 |
| 916NA | 916NA | 916NA | 916NA |
| 917 | 917 | 912 | 917 |
| 920 | 920 | 920 | 917 |
| 921 | 921 | 921 | 921 |
| 922 | 922 | 922 | 922 |
| 1003 | 1003 | 1003 | 1003 |
| 1004 | 1004 | 1004 | 1004 |
| 1034 | 1034 | 1157 | 1034 |
| 1073 | 1073 | 1156 | 1073 |
| 1141 | 1141 | 1141 | 1141 |
| 1142 | 1142 | 1142 | 1142 |
| 1155 | 1155 | 1155 | 1155 |
| 1156 | 1156 | 1156 | 1156 |
| 1156NA | 1156A | 1156NA | 1156NA |
| 1157 | 1157 | 1157 | 1157 |
| 1157NA | 1157A | 1157NA | 1157NA |
| 1295NA | 1295NA | 1295NA | 1295NA |
| 1445 | 1445 | 1445 | 1445 |
| 1815 | 1815 | 1815 | 1815 |
| 1816 | 1816 | 1816 | 1816 |
| 1889 | 1889 | 1889 | 1889 |
| 1891 | 1891 | 1891 | 1891 |
| 1892 | 1892 | 1892 | 1892 |
| 1893 | 1893 | 1893 | 1893 |
| 1895 | 1895 | 1895 | 1895 |
| 2040 | 2040 | 2040 | 2040 |
| 2057 | 2057 | 2057 | 2057 |
| 2057NA | 2057A | 2057NA | 2057NA |
| 2357 | 2357 | 2357 | 2357 |
| 2357NA | 2357A | 2357NA | 2357NA |
| 2396 | 2396 | 2396 | 2396 |
| 2397 | 2397 | 2397 | 2397 |
| 3057 | 3057 | 3057 | 3057 |
| 3057LL | 3057LL | 3057LL | 3057LL |
| 3057NA | 3057A | 3057NA | 3057NA |
| 3155 | 3155LL | 3155 | 3155 |
| 3156 | 3156 | 3156 | 3156 |

Miniature Lamps Ampoules Miniatures - Lámparas En Miniatura

| GE | OSRAM | PHILIPS | WAGNER |
|-----------|----------|-----------|------------|
| 3156LL | 3156LL | 3156LL | 3156LL |
| 3157 | 3157 | 3157 | 3157 |
| 3157LL | 3157LL | 3157LL | 3157LL |
| 3157NA | 3157A | 3157NA | 3157NA |
| 3157NALL | 3157NALL | 3157NALL | 3157NALL |
| 3457 | 3357 | 3457 | 3357 |
| 3457LL | 3357LL | 3457LL | 3357LL |
| 3457LL | 3457LL | 3457LL | 3457LL |
| 3457NA | 3357NA | 3457NA | 3357NA |
| 3457NA | 3457ALL | 3457NALL | 3457NALL |
| 3496 | 3496 | 3496 | 3496 |
| 3497 | 3497 | 3497 | 3497 |
| 3652 | 3652 | - | 3652 |
| 4157LL | 4157LL | 4157LL | 4157LL |
| 4157NALL | 4157NALL | 4157NALL | 4157NALL |
| 7440 | 7440 | 7440 | 7440 |
| 7443 | 7443 | 7443 | 7443 |
| 9145 | 9145 | 9145BP | 9145 |
| 56110 | 64115 | - | 47835 |
| 58540 | 64111 | 12023 | 47830 |
| C5W | 6418 | 12844 | 11005 |
| DE3021 | DE3021 | 12818 | 11006 |
| DE3022 | DE3022 | 12818 | 13050 |
| DE3175 | DE3175 | DE3175 | 12100 |
| DE3425 | DE3425 | 12854 | 11004 |
| DE757 | 66411 | 12866 | 17314 |
| H1-55 | H1-64150 | H1-55W | BP1255/H1 |
| H2-55 | H2-64173 | H2-55W | BP1255/H2 |
| H3-55 | H3-64151 | H3-55W | BP1255/H3 |
| H3-100 | H3-64153 | 12455 | BP1210/H3 |
| H4-60/55 | H4-64193 | 12342 | BP1260/H4 |
| H4-75/70 | H4-64196 | 13342 | BP2475/H4 |
| H7-55 | H7-64210 | H7-55W | BP1255/H7 |
| H8-35 | H8-35W | H8-35W | BP1235/H8 |
| H9-65 | H9-65W | H9-65W | BP1265/H9 |
| H11-55 | H11-55W | H11-55W | BP1255/H11 |
| P21W | 7506 | 12498 | 17635 |
| P21WLL | 7506 | LL12498LL | - |
| P21/4W | 7225 | 12594 | 17881 |
| P21/5W | 7528 | 12499 | 17916 |
| P21/5W LL | 7528LL | - | - |
| PC168 | - | PC168 | - |
| PC194 | - | PC194 | PC194 |
| PY21W | 7507A | 12496 | 17638NA |
| R5W | 5007 | 12821 | 17171 |
| R5WLL | 5007LL | - | - |
| R10W | 5008 | 12814 | 17311 |
| T4W | 3893 | 12929 | 17131 |
| W3W | 2821 | 12256 | 17097 |
| W5W | 2825 | 12961 | 17177 |

Lamp Locator

The lamps listed here are not to scale. To determine the diameter of a bulb in inches, multiply the bulb number by one-eighth. For example T-2 means approximately 2/8" or 1/4" diameter.

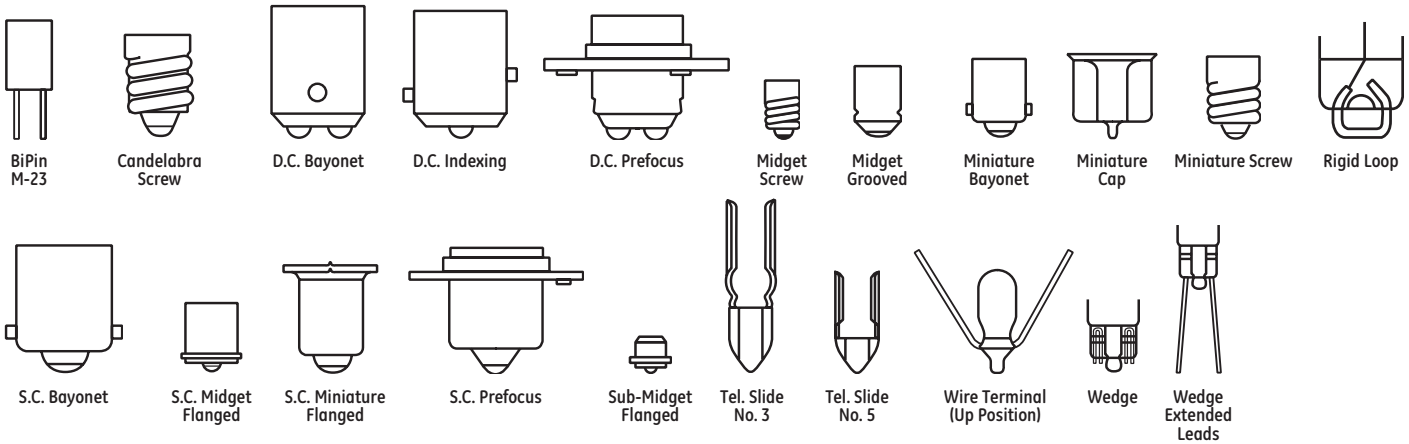


Miniature, Sealed Beam and Automotive Lamps

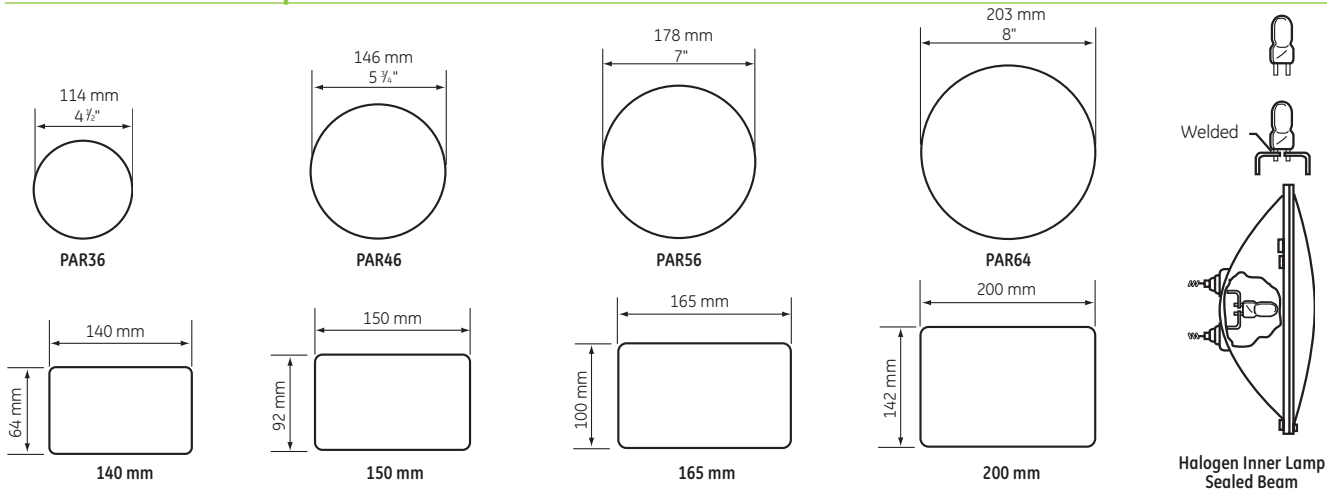
Miniature Bases

Bases provide electrical contact to the lamp and, in most cases, also support the lamp in the fixture. For miniature and subminiature lamps, bayonet or wedge base types are generally preferred over screw types when vibration is present.

In addition, wedge bases reduce socket size and complexity. Flanged or collared types are usually associated with requirements for filament location.

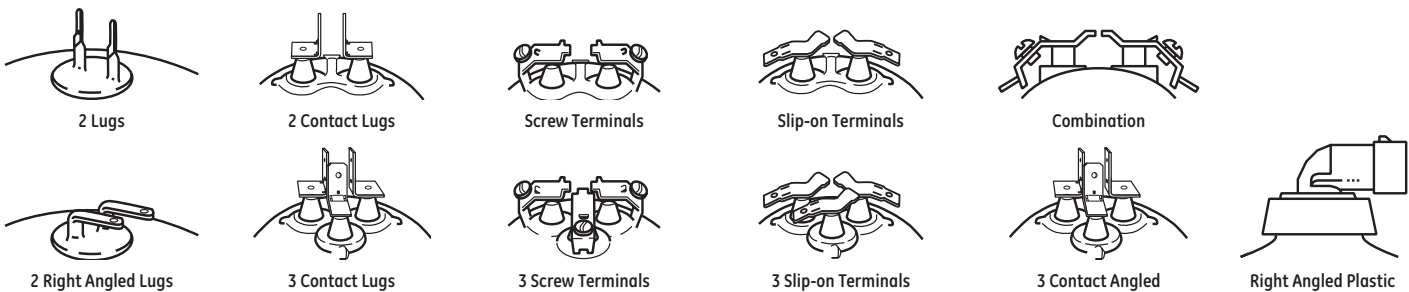


Sealed Beam Lamps



Sealed Beam Bases

Bases provide electrical contact to the lamp. The most common bases for sealed beam lamps are the screw terminal and contact lug types. Other types are also available, as illustrated.



Introduction

GE Miniature and Sealed Beam Product Ordering Information

GE Miniature and Sealed Beam Lamps are designed for those applications requiring specific bulb size, base, and voltage. These lamps are operated on vehicles (cars, trucks, boats, aircraft, tractors) or in special applications utilizing low voltage sources. Most lamps are designated by common ANSI (American National Standards Institute) lamp numbers and lamps in this section are arranged in numerical order. To assist you in identifying lamps, drawings (not to scale) are provided, along with descriptions of bulb and base sizes.

Specific market segments covered in this section are products used in:

| | | |
|-------------|-----------------------------|---------------------|
| Aircraft | Emergency Building Lighting | Marine |
| Automotive | Flashlight/Hand Lanterns | Medical/Instruments |
| Agriculture | Garden/Outdoor | Telephone |
| CIM/Tractor | Indicator | Toys/Entertainment |

For additional specifications refer to the Automotive Lamp Catalog obtained through your GE Sales Office. Automotive Selection Guide also available.

Finding and Ordering a Lamp

Most Miniature Lamps have a number on the base or bulb. Generally it will match the lamp number in this catalog, which is sorted in numeric order (prefixes last). The catalog is divided into Miniature and Sealed Beam sections. Sealed Beam lamps start on page 9-14. Often the first prefix is another lamp manufacturer's identification and can be ignored. You can verify the lamp using the drawings provided. Order codes for Blister, Unit, and Bulk Pack for OEM's are provided.

Formulas

The following are commonly used formulas to assist any calculations you may need. For further information, contact your GE Lamp Representative.

- Watts = Volts x Amps Candlepower
- Lumens = 12.57 x Mean Spherical
- Kelvin = Celsius + 273
- Footcandles = Candlepower/Distance squared (miniature lamps only)
- Hot Resistance (Ohms) = Volts/Amps

Abbreviations

The abbreviations used in this catalog include:

| | | | |
|--------|---|-------|--|
| A | Amperes | C.P. | Candlepower |
| ANSI | American National Standards Institute | Cand. | Candelabra |
| Bay. | Bayonet | PAR | Parabolic Aluminized Reflector |
| D.C. | Double Contact | Pf. | Prefocus |
| ECE | European Common Market (European Motor Vehicle Standards) | SAE | Society of Automotive Engineers (US Motor Vehicle Standards) |
| Flg. | Flanged | Sc. | Screw |
| HID | High Intensity Discharge | S.C. | Single Contact |
| LCL | Light Center Length | Spec. | Special |
| Min. | Miniature | Tel. | Telephone |
| MOL | Maximum Overall Length | Term. | Terminals |
| MSCP | Mean Spherical Candlepower | V | Volts |
| Nom. | Nominal | W | Watts |
| C.I.M. | Construction & Industrial Machinery | | |

GE Miniature Lamp Prefixes

| | | | |
|----|---|--------|----------------------|
| DE | Double-Ended | Q | Quartz Halogen |
| H | Halogen | W,T,R, | European Designation |
| K | Krypton Gas | C,P | |
| PC | Printed Circuit Application | D2 | Discharge |
| PR | Prefocus Base (e.g., "Flashlight Lamp") | | |

GE Miniature Lamp Suffixes

| | | | |
|------|---|----|--|
| A | Amber | TY | Letters after a quartz halogen lamp mean a deviation from the standard lamp - usually refers to the electrical terminals |
| AF | All Frost (on outside) | WW | Warm White (aircraft lighting) |
| AS15 | Ages and Selected to 15% (for candlepower) | X | Indicates some arbitrary deviation from the normal product |
| B | Blue | Y | Yellow |
| CW | Cool White (aircraft lighting) | -1 | Slip-on terminals |
| E-1 | Different lead wire material (NI plated) | -2 | Represents various deviations |
| G | Green | -3 | Represents deviations (e.g. combination terminal) |
| HD | Heavy Duty | W | European Designation (Watts) |
| HO | High Output | | |
| LL | Long Life | | |
| NH | Nighthawk™ | | |
| NHS | Nighthawk™ Sport | | |
| NA | Natural Amber (automotive lighting) | | |
| PSB | Pilot Indicator/Short Base | | |
| R | Red | | |
| SB | Silver Bowl (all or some portion of bulb is silver). Also blue halogen. | | |

Miniature, Sealed Beam and Automotive Lamps

Headings in this catalog section

The following terms and descriptions can help you when checking Halogen lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families,

lamps are listed by wattage. In each of these groups, lamps are listed alphabetically by bulb shape.

| | | | | | | | | |
|--|---|--|---|--|--|---|---|--|
| GE Lamp No.: In nearly all cases lamps are marked with a General Electric Trade Number recorded with the ANSI. See glossary of prefixes and suffixes on page 8-21. | Primary Application: Current uses of the lamp in general. Lamps are used in other applications than listed. | MSCP/MBCP: Approximate output expressed as initial mean spherical candlepower (see lumen conversion). For Sealed Beam MBCP is the maximum intensity of the beam in candelas, generally in the beam's center, and spread is beam size expressed in degrees. | Amps or Watts: Energy used expressed as amperes (A) or watts (W) at design voltage. | Bulb: The prefix letter describes the shape and the number is the approximate bulb diameter. | Filament Design: C = coiled, CC = coiled coil, -6 = horizontal, -8 = vertical to base. See Miniature and Sealed Beam Catalog for all variations. | MOL (in): In inches from the top of the bulb to the bottom of the base. | Rated Life (hrs): Lamp burning hours to medium life expectancy. | Footnotes, Warning and Caution Notices: See page 8-34 for explanation. |
| Order Code: Use this code when ordering to ensure that you receive the exact product you require. | Case Qty: Quantity of lamps per case if blister pack (BP), unit, or bulk (OEM's).* | Volts: Voltage at which the lamp is designed to provide the amperes, candlepower, and laboratory life characteristics. | | Base: Base types are depicted on the previous pages for both Miniature and Sealed Beam. | LCL (in): Distance in inches between base reference plane and filament center. | | | |

| Order Code | | | Case Qty | | | GE Lamp No. | Primary Application | Volts | Amps (A) or Watts (W) | MSCP | Bulb | Base | Filament | LCL (in) | MOL (in) | Rated Life (hrs) | Footnotes, Warning and Caution Notices |
|------------|-------|------|----------|------|------|-------------|---------------------|-------|-----------------------|------|--------|-------------------|----------|----------|----------|------------------|--|
| Blister | Unit | Bulk | BP | Unit | Bulk | | | | | | | | | | | | |
| 12325 | 17853 | | 48 | 50 | | 24 | Auto Sidemarker | 14.0 | .24A | 2.0 | T2 3/4 | Wedge (W2.1x9.5d) | C-2V | 0.46 | 0.91 | 1500 | |

T-2 is Tubular approximately 2/8" in diameter. Sealed Beam bulb sizes are also in eighths of an inch if round (PAR). PAR36 is 36/8" or 4-1/2" in diameter. If the Sealed Beam is rectangular in shape the longest side is measured in millimeters. A 165mm Sealed Beam measures 6-1/2" (165mm) across the top.

T 2-3/4

Identifies the shape (S= Pear, T=Tubular, G=Globe, R=Reflector)

Identifies the approximate bulb diameter in eighths of an inch.

*Miniature Incandescent BP is 2 lamps, Miniature Halogen BP is 1 lamp, selected miniature headlamps available in 2 pack BP; PC not shown.

Miniature Lamps

| Order Code | | | Case Qty | | | GE Lamp No. | Primary Application | Volts | Amps (A) or Watts (W) | MSCP | Bulb | Base | Filament | LCL (in) | MOL (in) | Rated Life (hrs) | Footnotes, Warning and Caution Notices |
|------------|-------|-------|----------|------|------|-------------|---------------------|-------|-----------------------|------|--------|--------------------------------|----------|----------|----------|------------------|--|
| Blister | Unit | Bulk | BP | Unit | Bulk | | | | | | | | | | | | |
| 12325 | 17853 | | 48 | 50 | | 24 | Auto Sidemarker | 14.0 | .24A | 2.0 | T2 3/4 | Wedge (W2.1x9.5d) | C-2V | 0.46 | 0.91 | 1500 | |
| 12316 | | | 48 | | | 24NA | Auto Sidemarker | 14.0 | .24A | 1.5 | T2 3/4 | Wedge (W2.1x9.5d) | C-2V | 0.46 | 0.91 | 1500 | |
| 26480 | 39220 | 17460 | 48 | 50 | 4000 | 37 | Auto | 14.0 | .09A | 0.5 | T1 3/4 | Wedge (W2.1x9.5d) | C-2F | 0.40 | 0.80 | 2500 | |
| | 25450 | | | 50 | | 44 | Indicator | 6.3 | .25A | 0.9 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2R | 0.78 | 1.19 | 3000 | |
| | 25485 | | | 50 | | 47 | Indicator | 6.3 | .15A | 0.5 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2R | 0.78 | 1.19 | 3000 | |
| | 25550 | 25552 | | 50 | 4000 | 53 | Auto and Indicator | 14.4 | .12A | 1.0 | G3 1/2 | Miniature Bayonet (Ba9s) | C-2V | 0.50 | 0.94 | 1000 | |
| 23218 | 25591 | | 48 | 50 | | 57 | Auto and Instrument | 14.0 | .24A | 2.0 | G4 1/2 | Miniature Bayonet (Ba9s) | C-2V | 0.56 | 1.07 | 500 | |
| 12324 | 25652 | 25654 | 48 | 50 | 1000 | 67 | Auto | 13.5 | .59A | 4.0 | G6 | Single Contact Bayonet (BA15s) | C-2R | 0.81 | 1.44 | 5000 | 4 |
| 71895 | | | 48 | | | 67NH | Auto, Nighthawk™ | 13.5 | .59A | 4.0 | G6 | Single Contact Bayonet (BA15s) | C-2R | 0.81 | 1.44 | | |
| | 25692 | | | 50 | | 68 | Auto and Marine | 13.5 | .59A | 4.0 | G6 | Double Contact Bayonet (BA15d) | C-2R | 0.81 | 1.44 | 5000 | 4 |
| 23015 | | 28770 | 48 | | 4000 | 73 | Indicator | 14.0 | .08A | 0.3 | T1 3/4 | Wedge (W2.1x9.5d) | C-2F | 0.40 | 0.80 | 15000 | 79 |
| 21029 | 38457 | 38458 | 48 | 50 | 4000 | 74 | Auto | 14.0 | .10A | 0.7 | T1 3/4 | Wedge (W2.1x9.5d) | C-2F | 0.40 | 0.80 | 1000 | |
| | 40969 | | | 50 | | 85 | Indicator | 28.0 | .04A | 0.3 | T1 3/4 | Wedge (W2.1x9.5d) | C-2F | 0.40 | 0.80 | 7000 | 79 |
| | 25772 | | | 10 | | 88 | Indicator | 6.8 | 1.91A | 15.0 | S8 | Double Contact Bayonet (BA15d) | C-6 | 1.12 | 2.00 | 300 | |
| 12363 | 25778 | | 48 | 50 | | 89 | Auto | 13.0 | .58A | 6.0 | G6 | Single Contact Bayonet (BA15s) | C-2R | 0.75 | 1.44 | 750 | |
| 47797 | | | 48 | | | 89 LL | Auto, Long Life | 13.0 | .58A | 6.0 | G6 | Single Contact Bayonet (BA15s) | C-2R | 0.75 | 1.44 | 1500 | |
| 12364 | 25794 | 25796 | 48 | 50 | 1000 | 90 | Auto and Marine | 13.0 | .58A | 6.0 | G6 | Double Contact Bayonet (BA15d) | C-2R | 0.75 | 1.44 | 750 | |
| 23217 | 25811 | 17461 | 48 | 50 | 500 | 93 | Auto | 12.8 | 1.04A | 15.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.12 | 2.00 | 700 | |
| 71904 | | | 48 | | | 93NH | Auto, Nighthawk™ | 12.8 | 1.04A | 15.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.12 | 2.00 | | |
| 00764 | 25829 | | 48 | 50 | | 94 | Auto and Marine | 12.8 | 1.04A | 15.0 | S8 | Double Contact Bayonet (BA15d) | C-6 | 1.12 | 2.00 | 700 | |
| 12322 | 25836 | 25838 | 48 | 50 | 1000 | 97 | Auto | 13.5 | .69A | 4.0 | G6 | Single Contact Bayonet (BA15s) | C-2V | 0.81 | 1.44 | 5000 | 4 |
| | 16287 | | | 50 | | 98 | Auto | 13.0 | .62A | 6.0 | G6 | Single Contact Bayonet (BA15s) | C-2V | 0.75 | 1.44 | 800 | |
| | 36147 | | | 50 | | 105 | Auto | 12.8 | 1.0A | 12.0 | B6 | Single Contact Bayonet (BA15s) | C-6 | 1.06 | 1.75 | 500 | |
| | 25931 | | | 50 | | 158 | Auto Instrument | 14.0 | .24A | 2.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2V | 0.56 | 1.06 | 500 | |
| 23016 | 25956 | 16489 | 48 | 50 | 4000 | 161 | Auto Instrument | 14.0 | .19A | 1.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | 4000 | |
| 71902 | | | 48 | | | 161 NH | Auto, Nighthawk™ | 14.0 | .19A | 1.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | | |
| 12327 | 25962 | 28757 | 48 | 50 | 4000 | 168 | Auto Instrument | 14.0 | .35A | 3.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | 1500 | |
| 47827 | | | 48 | | | 168 LL | Auto, Long Life | 14.0 | .35A | 3.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | 3000 | |
| 89239 | | | 48 | | | 168 NH | Auto, Nighthawk™ | 14.0 | .35A | 3.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | | |
| | 19553 | 19852 | | 50 | 4000 | 193 | Truck | 14.0 | .33A | 2.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | 15000 | |
| | | 11807 | | | 4000 | 193E1 | Truck Clearance | 14.0 | .33A | 2.0 | T3 1/4 | Wedge, Wire Terminal (122) | C-2F | | 1.06 | 15000 | 122 |
| 12328 | 25965 | 28758 | 48 | 50 | 4000 | 194 | Auto | 14.0 | .27A | 2.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | 2500 | |
| 89240 | | | 48 | | | 194 NH | Auto, Nighthawk™ | 14.0 | .27A | 2.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | | |
| 12357 | | | 48 | | | 194G | Auto, Green | 14.0 | .27A | | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | | 1.06 | 2500 | 132 |

Miniature Lamps (continued)

| Blister | Order Code | | | Case Qty | | | GE Lamp No. | Primary Application | Volts | Amps (A) or Watts (W) | MSCP | Bulb | Base | Filament | LCL (in) | MOL (in) | Rated Life (hrs) | Footnotes, Warning and Caution Notices |
|---------|------------|-------|----|----------|------|-------------|-------------------------|---------------------|----------|-----------------------|--------|--------------------------------|---------|----------|----------|-----------|------------------|--|
| | Unit | Bulk | BP | Unit | Bulk | | | | | | | | | | | | | |
| 12319 | 44859 | 27470 | 48 | 50 | 4000 | 194NA | Auto Sidemarker | 14.0 | .27A | 1.5 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | | 1.06 | 2500 | | |
| 47794 | | | 48 | | | 194NA LL | Auto Amber, Long Life | 14.0 | .27A | 1.5 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | | 1.06 | 5000 | | |
| 71894 | | | 48 | | | 194NA LL NH | Auto, Amber, Nighthawk™ | 14.0 | .27A | 1.5 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | | 1.06 | | | |
| 12355 | | | 48 | | | 194R | Auto, Red | 14.0 | .27A | 2.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | | 1.06 | 2500 | 132 | |
| 25832 | | | 48 | | | 194LL | Auto, Long Life | 14.0 | .27A | 2.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | 12000 | | |
| 00760 | 37983 | 37984 | 48 | 50 | 500 | 198 | Truck Stop, Signal | 12.8/14.0 | 2.25/59A | 32.0/3.0 | S8 | Double Contact Index (BA15d) | C-6/C-6 | 1.25 | 2.00 | 1200/1500 | 110,147 | |
| | 37985 | 37986 | | 50 | 500 | 199 | Truck Stop | 12.8 | 2.25A | 32.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 1200 | 110 | |
| | 25988 | | | 50 | | 210 | Instrument | 6.5 | 1.78A | 15.0 | B6 | Double Contact Bayonet (BA15d) | C-6 | 1.06 | 1.75 | 100 | | |
| 12673 | 39224 | 11803 | 48 | 50 | 2520 | 211-2 | Auto | 12.8 | .97A | 12.0 | T3 | Miniature Cap | C-8 | | 1.72 | 1000 | | |
| 71900 | | | 48 | | | 211-2 NH | Auto, Nighthawk™ | 12.8 | .97A | 12.0 | T3 | Miniature Cap | C-8 | | 1.72 | | | |
| 23220 | | | 48 | | | 212-2 | Auto | 13.5 | .74A | 6.0 | T3 | Miniature Cap | C-8 | | 1.72 | 2000 | 4 | |
| | 39356 | | | 50 | | 214-2 | Auto | 13.5 | .52A | 4.0 | T3 | Miniature Cap | C-8 | | 1.72 | 1000 | 4 | |
| | 44719 | | | 50 | | 265 | Indicator | 28.0 | .08A | 0.8 | G3 1/2 | Miniature Bayonet (Ba9s) | C-2F | 0.50 | 0.94 | 5000 | | |
| | 81642 | | | 50 | | 301 | Aircraft | 28.0 | .17A | 3.0 | G-5 | Single Contact Bayonet (BA15s) | C-2F | 0.69 | 1.25 | 500 | | |
| | 81641 | | | 50 | | 303 | Aircraft | 28.0 | .30A | 6.0 | G-6 | Single Contact Bayonet (BA15s) | C-2F | 0.75 | 1.44 | 500 | | |
| | 81643 | | | 50 | | 304 | Aircraft | 28.0 | .30A | 6.0 | G-6 | Double Contact Bayonet (BA15d) | C-2F | 0.75 | 1.44 | 500 | | |
| | 26143 | | | 50 | | 305 | Aircraft | 28.0 | .51A | 15.0 | S8 | Single Contact Bayonet (BA15s) | C-2V | 1.12 | 2.00 | 300 | | |
| | 26145 | | | 50 | | 305AF | Aircraft, Frosted | 28.0 | .51A | | S8 | Single Contact Bayonet (BA15s) | C-2V | | 2.00 | 300 | | |
| | 26152 | | | 50 | | 306 | Aircraft | 28.0 | .51A | 15.0 | S8 | Double Contact Bayonet (BA15d) | C-2V | 1.12 | 2.00 | 300 | | |
| | 81644 | | | 50 | | 307 | Aircraft | 28.0 | .67A | 21.0 | S-8 | Single Contact Bayonet (BA15s) | C-2V | 1.12 | 2.00 | 300 | | |
| | 26161 | | | 50 | | 307AF | Aircraft, Frosted | 28.0 | .67A | 21.0 | S8 | Single Contact Bayonet (BA15s) | C-2V | | 2.00 | 300 | | |
| | 81645 | | | 50 | | 308 | Aircraft | 28.0 | .67A | 21.0 | S8 | Double Contact Bayonet (BA15d) | C-2V | 1.12 | 2.00 | 300 | | |
| | 81646 | | | 50 | | 308AF | Aircraft, Frosted | 28.0 | .67A | | S8 | Double Contact Bayonet (BA15d) | C-2V | | 2.00 | 300 | | |
| | 26175 | | | 10 | | 309 | Aircraft, Frosted | 28.0 | .90A | 32.0 | S11 | Single Contact Bayonet (BA15s) | C-2V | 1.25 | 2.38 | 300 | | |
| | 81647 | | | 10 | | 311 | Aircraft | 28.0 | 1.29A | 50.0 | S11 | Single Contact Bayonet (BA15s) | C-2V | 1.25 | 2.38 | 300 | | |
| | 81649 | 81650 | | 50 | 4000 | 313 | Aircraft | 28.0 | .17A | 3.5 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 500 | | |
| | 81651 | | | 50 | | 315 | Aircraft | 28.0 | .90A | 32.0 | S8 | Single Contact Bayonet (BA15s) | C-2V | 1.12 | 2.00 | 300 | | |
| | 81652 | | | 50 | | 316 | Aircraft | 6.0 | .70A | 3.4 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2R | 0.62 | 1.19 | 500 | | |
| | 80862 | | | 10 | | 317 | Aircraft | 28.0 | 3.50W | 2.6 | T3 | 2-Pin (G4) | C-2R | 0.78 | 1.16 | 1000 | | |
| | 28519 | | | 50 | | 327 | Aircraft | 28.0 | .04A | 0.3 | T1 3/4 | Single Contact Midget Flanged | C-2F | 0.38 | 0.63 | 4000 | 79 | |
| | 28546 | | | 50 | | 328 | Aircraft | 6.0 | .20A | 0.3 | T1 3/4 | Single Contact Midget Flanged | C-2R | 0.38 | 0.63 | 1000 | 10 | |
| | 28567 | | | 50 | | 330 | Aircraft | 14.0 | .08A | 0.5 | T1 3/4 | Single Contact Midget Flanged | C-2F | 0.38 | 0.63 | 1500 | | |
| | 28588 | | | 50 | | 334 | Aircraft | 28.0 | .04A | 0.3 | T1 3/4 | Midget Grooved | C-2F | 0.38 | 0.63 | 4000 | 79 | |
| | 26255 | | | 50 | | 356 | Aircraft | 28.0 | .17A | 3.5 | G3 1/2 | Miniature Bayonet (Ba9s) | C-2F | 0.50 | 0.94 | 500 | 14 | |
| | | 87381 | | | 1000 | 380 | Aircraft | 6.3 | .04A | 0.0 | T1 3/4 | Single Contact Midget Flanged | C-2V | | 0.64 | 50000 | 79 | |
| | 28653 | | | 50 | | 381 | Indicator | 6.3 | .20A | 0.4 | T1 3/4 | Single Contact Midget Flanged | C-2F | 0.38 | 0.63 | 20000 | 79 | |
| | 28657 | | | 50 | | 382 | Indicator | 14.0 | .08A | 0.3 | T1 3/4 | Single Contact Midget Flanged | C-2F | 0.38 | 0.63 | 40000 | 79 | |
| | 28660 | | | 50 | | 385 | Indicator | 28.0 | .04A | 0.2 | T1 3/4 | Single Contact Midget Flanged | C-2F | 0.44 | 0.81 | 10000 | 78,79 | |
| | 28662 | | | 50 | | 386 | Indicator | 14.0 | .08A | 0.3 | T1 3/4 | Midget Grooved | C-2F | 0.38 | 0.63 | 40000 | 79 | |
| | 28664 | 25090 | | 50 | 1000 | 387 | Indicator | 28.0 | .04A | 0.3 | T1 3/4 | Single Contact Midget Flanged | C-2F | 0.38 | 0.63 | 7000 | | |
| | 28672 | | | 50 | | 388 | Indicator | 28.0 | .04A | 0.3 | T1 3/4 | Midget Grooved | C-2F | 0.38 | 0.63 | 7000 | 79 | |
| | | 87398 | | | 1000 | 394 | Aircraft | 12.0 | .04A | 0.1 | T1 3/4 | Single Contact Midget Flanged | C-2F | | 0.64 | 10000 | 79 | |
| | 38918 | | | 50 | | 400 | Aircraft | 28.0 | .10A | 1.6 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | 1000 | | |
| | 26441 | | | 50 | | 456 | Instrument | 28.0 | .17A | 2.0 | G4 1/2 | Miniature Bayonet (Ba9s) | C-2F | 0.56 | 1.07 | 5000 | | |
| | 39645 | | | 50 | | 464 | Aircraft | 28.0 | .17A | 3.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | 1500 | | |
| 12358 | 39746 | 11820 | 48 | 50 | 2520 | 561 | Auto | 12.8 | .97A | 12.0 | T3 | Rigid Loop | C-8 | | 1.72 | 1000 | | |
| 23019 | | | 48 | | | 562 | Auto | 13.5 | .74A | 6.0 | T3 | Rigid Loop | C-8 | | 1.72 | 2000 | 4 | |
| | | 11825 | | | 1000 | 563 | Auto | 13.5 | .52A | 4.0 | T3 | Rigid Loop | C-8 | | 1.72 | 1000 | 4 | |
| | 18442 | | | 50 | | 590 | Strip Lighting | 13.5 | .37A | 4.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2V | 0.50 | 1.06 | 2000 | | |
| | 81653 | 81654 | | 50 | 1000 | 623 | Instrument | 28.0 | .37A | 6.0 | G-6 | Single Contact Bayonet (BA15s) | 2C-2V | 0.75 | 1.44 | 1000 | | |
| 23023 | 26570 | | 48 | 50 | | 631 | Auto | 14.0 | .63A | 6.0 | G6 | Single Contact Bayonet (BA15s) | 2C-2R | 0.75 | 1.44 | 1000 | | |
| | 81670 | 81671 | | 50 | 4000 | 658 | Indicator | 14.0 | .08A | 0.3 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | 15000 | 79 | |
| | | 87407 | | | 1000 | 680 | Aircraft | 5.0 | .06A | 0.03 | T1 | Wire Terminals | C-2R | | 0.24 | 100000 | 79 | |
| | | 87336 | | | 1000 | 683 | Aircraft | 5.0 | .06A | 0.05 | T1 | Wire Terminals | C-2R | | 0.24 | 100000 | 79 | |
| | | 87321 | | | 1000 | 683AS15 | Aircraft | 5.0 | .06A | 0.05 | T1 | Wire Terminals | C-2R | | 0.24 | 100000 | 79 | |
| | | 28706 | | | 1000 | 685 | Aircraft | 5.0 | .06A | 0.1 | T1 3/4 | Sub-Midget Flanged | C-2R | 0.19 | 0.38 | 40000 | 79 | |
| 43132 | | | | 50 | | 705 | Aircraft | 28.0 | .51A | 15.0 | S8 | Single Contact Bayonet (BA15s) | CC-6 | 1.12 | 2.00 | 900 | | |
| | | 87411 | | | 1000 | 713 | Aircraft | 5.0 | .75A | 0.09 | T1 | Wire Terminals | C-2R | | 0.24 | 100000 | 79 | |
| | | 29903 | | | 1000 | 715 | Aircraft | 5.0 | .115A | 0.15 | T1 | Wire Terminals | C-2R | | 0.25 | 40000 | 79 | |
| | | 29901 | | | 1000 | 715AS15 | Aircraft | 5.0 | .115A | 0.15 | T1 | Wire Terminals | C-2R | | 0.25 | 40000 | 79 | |
| | | 29916 | | | 1000 | 718 | Aircraft | 5.0 | .115A | 0.15 | T1 | Sub-Midget Flanged | C-2R | | 0.36 | 40000 | 79 | |
| | | 29905 | | | 1000 | 718AS15 | Aircraft | 5.0 | .115A | 0.15 | T1 | Sub-Midget Flanged | C-2R | | 0.36 | 40000 | 79 | |
| | 26591 | | | 50 | | 755 | Indicator | 6.3 | .15A | 0.3 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2R | 0.78 | 1.19 | 20000 | 79 | |

For the most up-to-date product information, see www.gelighting.com. All footnotes, warning and caution notices found at the end of this section (page 8-34).

Miniature, Sealed Beam and Automotive Lamps

Miniature Lamps (continued)

| Blister | Order Code | | Case Qty | | | GE Lamp No. | Primary Application | Volts | Amps (A) or Watts (W) | MSCP | Bulb | Base | Filament | LCL (in) | MOL (in) | Rated Life (hrs) | Footnotes, Warning and Caution Notices |
|---------|------------|-------|----------|------|------|-------------|----------------------|-------|-----------------------|-------|--------|--------------------------------|----------|----------|----------|------------------|--|
| | Unit | Bulk | BP | Unit | Bulk | | | | | | | | | | | | |
| | 26593 | | | 50 | | 756 | Indicator | 14.0 | .08A | 0.3 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 15000 | 79 |
| | 81655 | | | 50 | | 757 | Indicator | 28.0 | .08A | 0.6 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 15000 | 79 |
| | 11014 | | | 20 | | 767 | Instrument | 6.0 | 2.00A | 19.0 | T2 1/4 | Miniature Bayonet (Ba9s) | C-6 | 0.56 | 1.13 | 50 | 306 |
| | 11250 | | | 10 | | 773 | Instrument | 12.0 | .67A | 10.0 | T2 3/4 | 2-Pin (G4) | C-6 | 0.77 | 1.05 | 1000 | 124,306 |
| | 12723 | 12724 | | 10 | 500 | 774 | Emergency Lighting | 12.0 | .67A | 13.0 | T2 1/4 | 2-Pin (G4) | C-6 | 0.77 | 1.00 | 50 | 124,306 |
| | 49718 | | | 10 | | 778 | Instrument | 6.0 | 3.33A | 32.0 | T2 3/4 | 2-Pin (G4) | C-6 | 0.77 | 1.05 | 100 | 124,306 |
| | 18344 | | | 10 | | 780 | Strip Lighting | 12.0 | 10.00W | 12.0 | T2 3/4 | 2-Pin (G4) | C-6 | 0.77 | 1.05 | 2000 | 124,306 |
| | 44840 | 44841 | | 10 | 500 | 782 | Instrument | 12.0 | 1.66A | 25.0 | T2 3/4 | 2-Pin (G4) | C-6 | 0.77 | 1.05 | 2000 | 124,306 |
| | 44500 | 44501 | | 10 | 500 | 783 | Emergency Lighting | 12.0 | 1.00A | 22.0 | T2 1/4 | 2-Pin (G4) | C-6 | 0.77 | 1.00 | 50 | 124,306 |
| | 43760 | 43761 | | 10 | 500 | 784 | Emergency Lighting | 6.0 | 1.00A | 9.0 | T2 1/4 | 2-Pin (G4) | C-6 | 0.77 | 1.00 | 50 | 124,306 |
| | 43762 | 43763 | | 10 | 500 | 785 | Emergency Lighting | 6.0 | 1.33A | 13.0 | T2 1/4 | 2-Pin (G4) | C-6 | 0.77 | 1.00 | 50 | 124,306 |
| | 43764 | 43765 | | 10 | 500 | 786 | Emergency Lighting | 6.0 | 2.00A | 19.0 | T2 1/4 | 2-Pin (G4) | C-6 | 0.77 | 1.00 | 50 | 124,306 |
| | 43115 | 43116 | | 10 | 500 | 787 | Instrument | 6.0 | 1.67A | 16.0 | T2 1/4 | 2-Pin (G4) | C-6 | 0.77 | 1.00 | 100 | 124,306 |
| | 43117 | 43118 | | 10 | 500 | 788 | Instrument | 6.0 | 3.33A | 32.0 | T2 1/4 | 2-Pin (G4) | C-6 | 0.77 | 1.00 | 100 | 124,306 |
| | 43119 | | | 10 | | 789 | Instrument | 12.0 | 1.17A | 22.0 | T2 3/4 | 2-Pin (G4) | C-6 | 0.77 | 1.05 | 200 | 124,306 |
| | 43121 | | | 10 | | 790 | Instrument | 14.0 | 1.79A | 42.0 | T2 3/4 | 2-Pin (G4) | C-6 | 0.77 | 1.05 | 200 | 124,306 |
| | 43123 | 43124 | | 10 | 500 | 791 | Instrument | 14.0 | 2.50A | 61.0 | T2 3/4 | 2-Pin (G4) | C-6 | 0.77 | 1.05 | 200 | 124,306 |
| | 20469 | | | 10 | | 795 | Signal | 12.8 | 50.00W | 108.0 | T4 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.50 | 200 | 4,306 |
| | 40848 | 14132 | | 10 | 540 | 862 | Tractor | 12.8 | 2.93A | 60.0 | T3 1/4 | Right Angle Prefocus (PGJ13) | C-6 | 1.25 | 2.68 | 1900 | 306 |
| 12320 | | 20904 | 48 | | 540 | 880 | Auto Fog | 12.8 | 2.10A | 43.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.25 | 2.68 | 300 | 17,160,306 |
| | | 27582 | | | 540 | 880 LL | Auto Fog, Long Life | 12.8 | 2.10A | 43.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.25 | 2.68 | 1000 | 17,160,306 |
| 25101 | | | 12 | | | 880 NH | Auto Fog, Nighthawk™ | 12.8 | 2.10A | 43.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.25 | 2.68 | | 17,160,306 |
| 25163 | | | 24 | | | 880 NH | Auto Fog, Nighthawk™ | 12.8 | 2.10A | 43.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.25 | 2.68 | | 17,160,306 |
| 12334 | | 20905 | 48 | | 540 | 881 | Auto Fog | 12.8 | 2.10A | 43.0 | T3 1/4 | Right Angle Prefocus (PGJ13) | C-6 | 1.25 | 2.68 | 300 | 17,160,306 |
| | | 27583 | | | 540 | 881 LL | Auto Fog, Long Life | 12.8 | 2.10A | 43.0 | T3 1/4 | Right Angle Prefocus (PGJ13) | C-6 | 1.25 | 2.68 | 1000 | 17,160,306 |
| | 13158 | 13161 | | 10 | 1000 | 882 | Auto Instrument | 12.8 | .35A | 3.8 | T2 1/4 | Printed Circuit Socket | C-6 | 0.37 | 1.18 | 2000 | 306 |
| | 18167 | | | 10 | | 882X | Auto Instrument | 12.8 | .35A | 3.8 | T2 1/4 | 2-Pin (G4) | C-6 | 0.77 | 1.00 | 2000 | 124,306 |
| 12335 | | 20907 | 48 | | 540 | 885 | Auto Fog | 12.8 | 3.90A | 100.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.25 | 2.68 | 200 | 4,306 |
| 14689 | | 20909 | 48 | | 540 | 886 | Auto Fog | 12.8 | 3.90A | 100.0 | T3 1/4 | Right Angle Prefocus (PGJ13) | C-6 | 1.25 | 2.68 | 200 | 4,306 |
| | | 25639 | | | 540 | 887 | Tractor Work Light | 12.8 | 3.90A | 95.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.25 | 2.68 | 400 | 4,306 |
| | | 25703 | | | 540 | 888 | Tractor Work Light | 12.8 | 3.90A | 95.0 | T3 1/4 | Right Angle Prefocus (PGJ13) | C-6 | 1.25 | 2.68 | 400 | 4,306 |
| 12336 | | 20910 | 48 | | 540 | 889 | Auto Signal | 12.8 | 2.10A | 43.0 | T3 1/4 | Right Angle Prefocus (PGJ13) | C-6 | 1.00 | 2.68 | 300 | 306 |
| 12337 | | 20911 | 48 | | 540 | 890 | Auto Signal | 12.8 | 2.10A | 43.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.00 | 2.68 | 300 | 306 |
| 12308 | 15246 | 15248 | 48 | 10 | 500 | 891 | Auto Stop | 12.8 | .63A | 11.0 | T2 1/4 | 2-Pin (G4) | C-6 | 0.77 | 1.00 | 500 | 124,306 |
| 12338 | | 20913 | 48 | | 540 | 893 | Auto Fog | 12.8 | 2.93A | 75.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.25 | 2.68 | 200 | 4,17,160,306 |
| | | 89115 | | | 540 | 893CL | Tractor | 12.8 | 2.93A | 75.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.25 | 2.68 | 200 | 4,160,306 |
| 25172 | | | 24 | | | 893 NH | Auto Fog, Nighthawk™ | 12.8 | 2.93A | 75.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.25 | 2.68 | | 4,17,160,306 |
| 25102 | | | 12 | | | 893 NH | Auto Fog, Nighthawk™ | 12.8 | 2.93A | 75.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.25 | 2.68 | | 4,17,160,306 |
| 22112 | 20238 | 18455 | 48 | 10 | 540 | 894 | Tractor | 12.8 | 2.93A | 75.0 | T3 1/4 | Right Angle Prefocus (PGJ13) | C-6 | 1.25 | 2.68 | 200 | 4,306 |
| 22113 | | 20914 | 48 | | 540 | 896 | Auto Fog | 12.8 | 2.93A | 75.0 | T3 1/4 | Right Angle Prefocus (PGJ13) | C-6 | 1.25 | 2.68 | 200 | 4,17,160,306 |
| 98093 | | 12271 | 48 | | 540 | 898 | Auto Fog | 12.8 | 2.93A | 60.0 | T3 1/4 | Right Angle Prefocus (PGJ13) | C-6 | 1.25 | 2.68 | 1900 | 4,17,160,306 |
| 22111 | | 12272 | 48 | | 540 | 899 | Auto Fog | 12.8 | 2.93A | 60.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.25 | 2.68 | 1900 | 4,17,160,306 |
| 14273 | | | 48 | | | 901 | Garden | 12.8 | .31A | 2.9 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 500 | |
| 23024 | 40462 | 40463 | 48 | 50 | 1000 | 904 | Auto | 13.5 | .69A | 4.0 | T5 | Wedge (W2.1x9.5d) | C-2F | 0.81 | 1.49 | 5000 | 4 |
| 12366 | 40289 | 28763 | 48 | 50 | 1000 | 906 | Auto | 13.0 | .69A | 6.0 | T5 | Wedge (W2.1x9.5d) | C-2F | 0.81 | 1.49 | 1000 | |
| | 44754 | 16858 | | 50 | 1000 | 908 | Emergency Lighting | 6.0 | 1.50A | 12.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 50 | |
| | 44756 | 16859 | | 50 | 1000 | 909 | Emergency Lighting | 6.0 | .62A | 3.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 50 | |
| 12365 | 40504 | 28767 | 48 | 50 | 1000 | 912 | Auto | 12.8 | 1.00A | 12.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 1000 | |
| 67903 | | | 48 | | | 912 LL | Auto, Long Life | 12.8 | 1.00A | 12 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 2000 | |
| 89242 | | | 48 | | | 912 NH | Auto, Nighthawk™ | 12.8 | 1.00A | 12.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | | |
| | 44769 | | | 50 | | 914 | Emergency Lighting | 4.0 | .90A | 3.5 | T5 | Wedge (W2.1x9.5d) | C-6 | 0.75 | 1.49 | 50 | |
| | 44771 | 44772 | | 50 | 1000 | 915 | Emergency Lighting | 12.0 | .75A | 11.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 50 | |
| 23025 | | 28768 | 48 | | 1000 | 916 | Auto | 13.5 | .54A | 2.0 | T5 | Wedge (W2.1x9.5d) | C-2F | 0.81 | 1.49 | 10000 | |
| | 21860 | | | 50 | | 916NA | Auto, Amber | 13.0 | .54A | 1.5 | T5 | Wedge (W2.1x9.5d) | C-2F | 0.81 | 1.49 | 10000 | |
| 40179 | 17837 | | 30 | 50 | | 918 | Garden | 12.8 | .56A | 6.5 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 500 | |
| 12307 | 43374 | 45752 | 48 | 50 | 1000 | 921 | Auto | 12.8 | 1.40A | 21.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 500 | |
| 67907 | | | 48 | | | 921LL | Auto, Long Life | 12.8 | 1.40A | 21 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 1000 | |
| 89238 | | | 48 | | | 921 NH | Auto, Nighthawk™ | 12.8 | 1.40A | 21.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | | |
| 85938 | | | 25 | | | 921NE | Undercabinet | 12.8 | 18.00W | 21.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 10000 | 121 |
| 23027 | 13274 | 13275 | 48 | 50 | 1000 | 922 | Auto | 12.8 | .98A | 15.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 200 | |
| 71903 | | | 48 | | | 922 NH | Auto, Nighthawk™ | 12.8 | .98A | 15.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | | |

Miniature Lamps (continued)

| Order Code | | | Case Qty | | | GE Lamp No. | Primary Application | Volts | Amps (A) or Watts (W) | MSCP | Bulb | Base | Filament | LCL (in) | MOL (in) | Rated Life (hrs) | Footnotes, Warning and Caution Notices |
|------------|-------|-------|----------|------|------|-------------|----------------------------|---------|-----------------------|----------|--------|--------------------------------|-----------|----------|----------|------------------|--|
| Blister | Unit | Bulk | BP | Unit | Bulk | | | | | | | | | | | | |
| 40180 | | | 30 | | | 923 | Garden | 12.8 | .91A | 12.5 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 500 | |
| | 13483 | | | 50 | | 926 | Emergency Lighting | 4.0 | 1.80A | 7.5 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 50 | |
| | 13485 | 13486 | | 50 | 1000 | 927 | Emergency Lighting | 6.0 | 1.2A | 8.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 50 | |
| | 16975 | 15285 | | 50 | 1000 | 939 | Emergency Lighting | 6.0 | .9A | 5.4 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 50 | |
| | | 23684 | | | 2500 | 963 | Emergency Lighting | 6.0 | 2.00A | 15.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 50 | |
| 12367 | 26709 | | 48 | 50 | | 1003 | Auto | 12.8 | .94A | 15.0 | B6 | Single Contact Bayonet (BA15s) | C-6 | 1.06 | 1.75 | 200 | |
| 47800 | | | 48 | | | 1003 LL | Auto, Long Life | 12.8 | .94A | 15.0 | B6 | Single Contact Bayonet (BA15s) | C-6 | 1.06 | 1.75 | 400 | |
| 71899 | | | 48 | | | 1003 NH | Auto, Nighthawk™ | 12.8 | .94A | 15.0 | B6 | Single Contact Bayonet (BA15s) | C-6 | 1.06 | 1.75 | | |
| 12373 | 26726 | | 48 | 50 | | 1004 | Auto | 12.8 | .94A | 15.0 | B6 | Double Contact Bayonet (BA15d) | C-6 | 1.06 | 1.75 | 200 | |
| | 26775 | | | 50 | | 1034 | Auto Stop, Tail | 12.8/14 | 1.80/59A | 32.0/3.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | 200/5000 | |
| 40134 | 26838 | | 48 | 50 | | 1073 | Auto Signal | 12.8 | 1.8A | 32.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 200 | |
| 71905 | | | 48 | | | 1073NH | Auto, Nighthawk™ | 12.8 | 1.8A | 32.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | | |
| 00765 | 26854 | | 48 | 50 | | 1076 | Auto | 12.8 | 1.8A | 32.0 | S8 | Double Contact Bayonet (BA15d) | C-6 | 1.25 | 2.00 | 200 | |
| | 26885 | | | 10 | | 1133 | Instrument | 6.2 | 3.91A | 32.0 | RP11 | Single Contact Bayonet (BA15s) | C-2R | 1.25 | 2.25 | 200 | 305 |
| 12346 | 26903 | 26905 | 48 | 50 | 500 | 1141 | Auto | 12.8 | 1.44A | 21.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 1000 | |
| 47802 | | | 48 | | | 1141 LL | Auto, Long Life | 12.8 | 1.44A | 21.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 2000 | |
| 71897 | | | 48 | | | 1141 NH | Auto, Nighthawk™ | 12.8 | 1.44A | 21.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | | |
| 00759 | 26917 | 26919 | 48 | 50 | 500 | 1142 | Auto | 12.8 | 1.44A | 21.0 | S8 | Double Contact Bayonet (BA15d) | C-6 | 1.25 | 2.00 | 1000 | |
| 12297 | | | 48 | | | 1154 | Auto Stop, Tail | 6.4/7.0 | 2.63/75A | 21.0/3.0 | S8 | Double Contact Index (BAY15d) | C-6 | 1.25 | 2.00 | 200/1000 | |
| 71889 | | | 48 | | | 1154 NH | Auto, Nighthawk™ | 6.4/7.0 | 2.63/75A | 21.0/3.0 | S8 | Double Contact Index (BAY15d) | C-6 | 1.25 | 2.00 | | |
| | 26955 | | | 50 | | 1155 | Truck Marker | 13.5 | .59A | 4.0 | G6 | Single Contact Bayonet (BA15s) | 2C-2R | 0.81 | 1.44 | 5000 | 4 |
| 12344 | 26960 | 26962 | 48 | 50 | 500 | 1156 | Auto, Stop | 12.8 | 2.10A | 32.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 1200 | |
| 23334 | | 11666 | 48 | | 1000 | 1156 LL | Auto, Stop, Long Life | 12.8 | 2.10A | 32.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 2400 | |
| 21028 | 20248 | | 48 | 50 | | 1156NA | Auto, Amber | 12.8 | 2.10A | 24.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 1200 | |
| 89241 | | | 48 | | | 1156 NH | Auto, Nighthawk™ | 12.8 | 2.10A | 32.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | | |
| 12294 | 26969 | 26971 | 48 | 50 | 500 | 1157 | Auto Stop, Tail | 12.8/14 | 2.10/59A | 32.0/3.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | 1200/5000 | |
| 23337 | | | 48 | | | 1157 LL | Auto Stop, Tail, Long Life | 12.8/14 | 2.10/59A | 32.0/3.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | 2400/10000 | |
| 89236 | | | 48 | | | 1157 NH | Auto, Nighthawk™ | 12.8/14 | 2.10/59A | 32.0/3.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | | |
| 12310 | 26975 | 26976 | 48 | 50 | 500 | 1157NA | Auto, Amber | 12.8/14 | 2.10/59A | 24.0/2.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | 1200/5000 | |
| 47798 | | | 48 | | | 1157NA LL | Auto, Amber, Long Life | 12.8/14 | 2.10/59A | 24.0/2.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | 2400/10000 | |
| 71891 | | | 48 | | | 1157NA NH | Auto, Amber, Nighthawk™ | 12.8/14 | 2.10/59A | 24.0/2.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | | |
| | 27004 | | | 10 | | 1176 | Auto Stop, Tail | 12.8/14 | 1.34/59A | 21.0/6.0 | S8 | Double Contact Bayonet (BA15d) | C-6/C-6 | 1.25 | 2.00 | 300/1500 | |
| | 27021 | 27023 | | 10 | 500 | 1195 | Auto | 12.5 | 3.00A | 50.0 | RP11 | Single Contact Bayonet (BA15s) | C-2R | 1.25 | 2.25 | 300 | 305 |
| | 27026 | | | 10 | | 1196 | Auto | 12.5 | 3.00A | 50.0 | RP11 | Double Contact Bayonet (BA15d) | C-2R | 1.25 | 2.25 | 300 | 305 |
| | 39904 | | | 10 | | 1229 | Emergency Lighting | 40.0 | .38A | 15.0 | S8 | Double Contact Bayonet (BA15d) | C-2V | 1.12 | 2.00 | 400 | |
| | 81679 | | | 50 | | 1251 | Instrument | 28.0 | .23A | 3.0 | G6 | Single Contact Bayonet (BA15s) | 2C-2V | 0.75 | 1.44 | 2000 | |
| | 22523 | | 48 | 10 | | 1295NA | Auto, Amber | 12.5 | 3.00A | 37.0 | S8 | Single Contact Bayonet (BA15s) | C-2R | 1.25 | 2.00 | 200 | |
| | 12824 | | | 50 | | 1308 | Aircraft, Reading | 28.0 | .56A | 16.0 | B6 | Single Contact Bayonet (BA15s) | CC-8 | 1.06 | 1.75 | 2000 | |
| | 81656 | | | 50 | | 1309 | Aircraft | 28.0 | .52A | 15.0 | B6 | Single Contact Bayonet (BA15s) | CC-8 | 1.06 | 1.75 | 2000 | |
| | 81667 | | | 50 | | 1315 | Aircraft, Emergency | 2.5 | 1.00A | 1.8 | G5 | Single Contact Bayonet (BA15s) | C-6 | 0.69 | 1.25 | 20 | 116 |
| | 34265 | | | 50 | | 1317 | Aircraft, Emergency | 6.0 | .51A | 3.4 | B6 | Single Contact Bayonet (BA15s) | C-6 | 1.12 | 1.75 | 100 | 116 |
| | 27150 | | | 10 | | 1383 | Aircraft, Reading | 13.0 | 20.0W | | R12 | Single Contact Bayonet (BA15s) | C-8 | | 2.63 | 300 | |
| | 27154 | | | 10 | | 1385 | Aircraft, Reading | 28.0 | 20.0W | | R12 | Single Contact Bayonet (BA15s) | CC-8 | | 2.63 | 300 | |
| | 27179 | | | 50 | | 1408 | Signal | 10.0 | .13A | 0.9 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2V | 0.62 | 1.19 | 250 | 13 |
| 12329 | 27207 | | 48 | 50 | | 1445 | Auto | 14.4 | .135A | 0.7 | G3 1/2 | Miniature Bayonet (Ba9s) | C-2V | 0.50 | 0.94 | 2000 | 13 |
| | 27263 | | | 50 | | 1450 | Indicator | 24.0 | .035A | 0.2 | G3 1/2 | Miniature Bayonet (Ba9s) | C-2F | 0.50 | 0.94 | 3000 | |
| | 81669 | | | 10 | | 1460X | Microscope | 6.5 | 2.75A | 23.0 | S8 | Double Contact Prefocus | C-6 | 1.25 | 2.00 | 100 | 11 |
| | 81657 | | | 10 | | 1495 | Aircraft | 28.0 | .30A | 6.0 | T4 1/2 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.38 | 500 | 11 |
| | 81678 | | | 10 | | 1495X | Aircraft, Gas Filled | 28.0 | .30A | 6.0 | T4 1/2 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.38 | 500 | 14 |
| | 81672 | | | 10 | | 1591 | Aircraft | 28.0 | .61A | 15.0 | S8 | Single Contact Bayonet (BA15s) | C-2V | 1.12 | 2.00 | 1000 | 13 |
| | 27461 | | | 10 | | 1612 | Instrument | 5.4 | 1.90A | 10.0 | S8 | Double Contact Bayonet (BA15d) | C-6 | 1.25 | 2.00 | 1000 | 147 |
| | 27472 | | | 10 | | 1619 | Instrument | 6.7 | 1.90A | 15.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.12 | 2.00 | 500 | |
| | 27488 | 27489 | | 10 | 500 | 1630 | Instrument | 6.5 | 2.75A | 23.0 | S8 | Double Contact Prefocus | C-6 | 1.00 | 2.00 | 100 | 11 |
| | 27504 | | | 50 | | 1638 | Marine | 28.0 | 1.02A | 32.0 | S8 | Double Contact Bayonet (BA15d) | 2C-6 | 1.25 | 2.00 | 500 | |
| | 27529 | | | 10 | | 1662 | Aircraft | 28/28 | .93/34A | 32.0/6.0 | S8 | Double Contact Index (BAY15d) | CC-6/C-2V | 1.25 | 2.00 | 400/1000 | 13,15,33 |
| | 27532 | | | 50 | | 1665 | Aircraft | 28.0 | .80A | 21.0 | S8 | Single Contact Bayonet (BA15s) | C-2V | 1.12 | 2.00 | 1000 | 13 |
| | 81658 | | | 50 | | 1665AF | Aircraft, Frosted | 28.0 | .80A | | S8 | Single Contact Bayonet (BA15s) | C-2V | | 2.00 | 1000 | 13 |
| | 81668 | | | 10 | | 1680X | Aircraft | 6.0 | 4.10A | 32.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 300 | |
| | 27557 | | | 50 | | 1683 | Aircraft, Series Filament | 28.0 | 1.02A | 32.0 | S8 | Single Contact Bayonet (BA15s) | 2C-6 | 1.25 | 2.00 | 500 | |

For the most up-to-date product information, see www.gelighting.com. All footnotes, warning and caution notices found at the end of this section (page 8-34).

Miniature, Sealed Beam and Automotive Lamps

Miniature Lamps (continued)

| Order Code | | | Case Qty | | | GE Lamp No. | Primary Application | Volts | Amps (A) or Watts (W) | MSCP | Bulb | Base | Filament | LCL (in) | MOL (in) | Rated Life (hrs) | Footnotes, Warning and Caution Notices |
|------------|-------|-------|----------|------|------|-------------|-------------------------------|-----------|-----------------------|----------|--------|--------------------------------|----------|----------|----------|------------------|--|
| Blister | Unit | Bulk | BP | Unit | Bulk | | | | | | | | | | | | |
| | 27566 | | | 50 | | 1691 | Aircraft, Series Filament | 28.0 | .61A | 15.0 | S8 | Single Contact Bayonet (BA15s) | 2C-2R | 1.12 | 2.00 | 1000 | |
| | 27568 | | | 50 | | 1691AF | Aircraft, Frosted | 28.0 | .61A | | S8 | Single Contact Bayonet (BA15s) | 2C-2R | | 2.00 | 1000 | |
| | 27571 | | | 10 | | 1692 | Marine | 28.0 | .61A | 15.0 | S8 | Double Contact Bayonet (BA15d) | 2C-2R | 1.12 | 2.00 | 1000 | |
| | 27630 | | | 10 | | 1777 | Aircraft | 12.8 | 1.52A | 26.0 | S8 | Single Contact Bayonet (BA15s) | C-2R | 1.12 | 2.00 | 400 | |
| | 27667 | | | 50 | | 1813 | Radio | 14.4 | .10A | 0.9 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2V | 0.62 | 1.19 | 1000 | 13 |
| 00758 | 27677 | 27679 | 48 | 50 | 4000 | 1815 | Indicator | 14.0 | .20A | 1.4 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.75 | 1.19 | 3000 | 147 |
| 12359 | 27688 | | 48 | 50 | | 1816 | Aircraft, Auto | 13.0 | .33A | 3.0 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2V | 0.62 | 1.19 | 1000 | 13 |
| | 81659 | | | 50 | | 1818 | Aircraft | 24.0 | .17A | 3.3 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 250 | 147 |
| | 81660 | 81661 | | 50 | 1000 | 1819 | Indicator | 28.0 | .04A | 0.3 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 2500 | |
| | 81663 | | | 50 | | 1820 | Indicator | 28.0 | .10A | 1.6 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 1000 | |
| | 27749 | | | 50 | | 1822 | Indicator | 36.0 | .10A | 2.1 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 1000 | |
| | 27772 | | | 50 | | 1828 | Indicator | 37.5 | .05A | 0.7 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 3000 | |
| | 81664 | | | 50 | | 1829 | Indicator | 28.0 | .07A | 1.0 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 1000 | |
| | 27804 | | | 50 | | 1835 | Indicator | 55.0 | .05A | 1.1 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 5000 | |
| | 81665 | 81666 | | 50 | 1000 | 1864 | Aircraft | 28.0 | .17A | 3.0 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 1500 | |
| | 27868 | | | 50 | | 1866 | Radio | 6.3 | .25A | 0.7 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2R | 0.78 | 1.19 | 5000 | 44 |
| | 40383 | | | 50 | | 1873 | Photo Scanner | 28.0 | .20A | 3.0 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 7000 | |
| 12331 | 27917 | | 48 | 50 | | 1891 | Auto | 14.0 | .24A | 2.0 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 500 | |
| 00767 | 27927 | | 48 | 50 | | 1892 | Auto | 14.4 | .12A | 0.8 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 1000 | |
| 12332 | 27935 | 27937 | 48 | 50 | 4000 | 1893 | Auto | 14.0 | .33A | 2.0 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 7500 | |
| 12330 | 27945 | 27948 | 48 | 50 | 4000 | 1895 | Auto | 14.0 | 14.2 | 14.3 | G4 1/2 | Miniature Bayonet (Ba9s) | C-2F | 0.56 | 1.07 | 2000 | |
| 71896 | | | 48 | | | 1895 NH | Auto, Nighthawk™ | 14.0 | 14.2 | 14.3 | G4 1/2 | Miniature Bayonet (Ba9s) | C-2F | 0.56 | 1.07 | | |
| | 34021 | | | 10 | | 1939X | Aircraft | 28.0 | 1.79A | 70.0 | T7 | Single Contact Bayonet (BA15s) | C-2V | 1.25 | 2.16 | 300 | 13,14 |
| | 28008 | | | 10 | | 1940 | Aircraft | 14.0 | 3.57A | 75.0 | T7 | Single Contact Bayonet (BA15s) | C-8Z | 1.25 | 2.16 | 300 | 14 |
| | 18617 | | | 10 | | 1946 | Aircraft | 28.0 | 250W | 660.0 | T3 | 2-Pin with Leads | CC-6 | 0.87 | 1.46 | 50 | |
| | 28011 | | | 10 | | 1958 | Aircraft | 28.0 | 150W | 250.0 | T4 | Tab | CC-8 | 0.75 | 2.25 | 300 | 304 |
| | 39641 | | | 10 | | 1962B | Special Service | 8.5 | 62W | 100.0 | T3 | Wire Terminals | C-6 | 0.29 | 1.14 | 50 | 304 |
| | 12859 | | | 10 | | 1962BG | Aircraft | 8.5 | 62W | 110.0 | T3 | Wire Terminals | C-6 | 0.29 | 1.14 | 50 | 304 |
| | 37947 | | | 10 | | 1962DX | Special Service | 8.5 | 62W | 80.0 | T3 | Wire Terminals | C-6 | 0.29 | 1.14 | 150 | 304 |
| | 44152 | | | 10 | | 1962DZ | Special Service | 8.5 | 62W | 80.0 | T3 | Wire Terminals | C-6 | 0.29 | 1.14 | 150 | 304 |
| | 13667 | | | 10 | | 1962TY | Medical | 8.5 | 62W | 110.0 | T3 | Wire Terminals | C-6 | 0.29 | 1.14 | 50 | 304 |
| | 28034 | | | 10 | | 1968 | Aircraft | 28.0 | 25W | 15.0 | T3 | Double Slide | C-2V | 0.41 | 1.17 | 500 | 13,304 |
| | 41938 | | | 100 | | 1970X | Aircraft | 28.0 | 100W | 140.0 | T3 | Special | CC-8 | | 2.25 | 1000 | 13,304 |
| | 32780 | | | 10 | | 1974 | Instrument | 6.0 | 20W | 10.0 | T3 | Wire Terminals | C-6 | 0.29 | 1.14 | 10000 | 304 |
| | 38545 | | | 100 | | 1978X | Aircraft | 10.0 | 100W | 130.0 | T3 | Bi-Pin (Special) | C-8 | | 2.15 | 2000 | 304 |
| | 38627 | | | 10 | | 1982 | Aircraft | 28.0 | 75W | 11.0 | T3 | Single Contact Bayonet (BA15s) | CC-8 | 1.06 | 1.88 | 1000 | 13,304 |
| | 21061 | | | 10 | | 1982SP | Aircraft | 28.0 | 75W | 107.0 | T3 | Single Contact Bayonet (BA15s) | CC-6 | 1.00 | 1.97 | 2000 | 304 |
| | 39718 | | | 10 | | 1983 | Aircraft | 10.0 | 100W | 130.0 | T4 | 2-Pin | C-8 | 1.25 | 1.80 | 2000 | 304 |
| | 44717 | | | 10 | | 1986 | Aircraft | 28.0 | 250W | 600.0 | T4 | Wire Terminals | CC-6 | 1.03 | 2.00 | 100 | 304 |
| | 47695 | | | 10 | | 1987 | Aircraft | 28.0 | 150W | 240.0 | T4 | Double Contact Bayonet (BA15d) | CC-6 | 1.18 | 2.44 | 700 | 304 |
| | 38535 | | | 10 | | 1988 | Aircraft | 10.0 | 100W | 130.0 | T3 | Special Wire Leads | C-8 | | 2.15 | 2000 | 304 |
| 12326 | 19280 | | 48 | 10 | | 2040 | Auto | 12.8 | .625A | 10.5 | T2 1/4 | Wedge (W2.1x9.5d) | C-6 | 0.40 | 1.25 | 500 | 306 |
| 12296 | 44760 | 18620 | 48 | 50 | 500 | 2057 | Auto, Stop, signal | 12.8/14.0 | 2.1/48A | 32.0/2.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | 1200/5000 | |
| 23339 | | | 48 | | | 2057 LL | Auto, Long Life | 12.8/14.0 | 2.1/48A | 32.0/2.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | 2400/10000 | |
| 89237 | | | 48 | | | 2057 NH | Auto, Nighthawk™ | 12.8/14.0 | 2.1/48A | 32.0/2.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | | |
| 12312 | 44763 | | 48 | 50 | | 2057NA | Auto, Amber | 12.8/14.0 | 2.1/48A | 24.0/1.5 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | 1200/5000 | |
| 47799 | | | 48 | | | 2057NA LL | Auto, Amber, Long Life | 12.8/14.0 | 2.1/48A | 24.0/1.5 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | 2400/10000 | |
| 71892 | | | 48 | | | 2057NA NH | Auto, Amber, Nighthawk™ | 12.8/14.0 | 2.1/48A | 24.0/1.5 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | | |
| | | 12899 | | | 600 | 2058U | Truck | 12.8/14.0 | 2.1/48A | 32.0/2.0 | S8 | Wire Terminals | C-6/C-6 | | 1.81 | 1200/5000 | 113 |
| | 26697 | | | 10 | | 2059 | Aircraft | 12.0 | .833A | 9.1 | T2 1/2 | Miniature Bayonet (Ba9s) | C-8 | 0.59 | 1.30 | 4000 | 304 |
| | 26698 | | | 10 | | 2059X | Aircraft | 12.0 | .833A | 8.0 | T2 1/2 | Miniature Bayonet (Ba9s) | C-8 | 0.59 | 1.30 | 4000 | 304 |
| | 21494 | | | 10 | | 2074 | Instrument | 7.0 | 25W | 24.0 | T3 | Wire Terminals | C-6 | 0.285 | 1.14 | 2700 | 304 |
| | 34763 | | | 50 | | 2232 | Aircraft | 28.0 | 18W | 18.0 | S8 | Single Contact Bayonet (BA15s) | CC-8 | 1.19 | 2.00 | 2000 | |
| | 26702 | | | 50 | | 2232LL | Aircraft, Long Life | 28.0 | 18W | 18.0 | S8 | Single Contact Bayonet (BA15s) | CC-8 | 1.19 | 2.00 | 4000 | |
| | 81677 | | | 10 | | 2232SB | Aircraft, Reflectorized | 28.0 | 18W | | S8 | Single Contact Bayonet (BA15s) | CC-8 | 1.19 | 2.00 | 2000 | |
| | 36906 | | | 10 | | 2233 | Aircraft | 28.0 | 21W | 21.0 | S8 | Single Contact Bayonet (BA15s) | CC-8 | 1.19 | 2.00 | 2000 | |
| 12298 | 16291 | | 48 | 50 | | 2357 | Auto, Stop, signal | 12.8/14.0 | 2.2/59A | 40.0/3.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | 400/5000 | |
| 67904 | | | 48 | | | 2357LL | Auto, Stop, signal, Long Life | 12.8/14.0 | 2.2/59A | 40.0/3.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2 | 800/10000 | |
| 71890 | | | 48 | | | 2357 NH | Auto, Nighthawk™ | 12.8/14.0 | 2.2/59A | 40.0/3.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | | |

For the most up-to-date product information, see www.gelighting.com.

All footnotes, warning and caution notices found at the end of this section (page 8-34).

Miniature Lamps (continued)

| Order Code | | Case Qty | | | | GE Lamp No. | Primary Application | Volts | Amps (A) or Watts (W) | MSCP | Bulb | Base | Filament | LCL (in) | MOL (in) | Rated Life (hrs) | Footnotes, Warning and Caution Notices |
|------------|-------|----------|----|------|------|-------------------|---------------------------|-----------|-----------------------|----------|---------|--------------------------------|----------|----------|----------|------------------|--|
| Blister | Unit | Bulk | BP | Unit | Bulk | | | | | | | | | | | | |
| 12299 | 15698 | | 48 | 50 | | 2357NA | Auto, Amber | 12.8/14.0 | 2.2/59A | 30.0/2.2 | S8 | Double Contact Index (BAY15d) | C-6 | 1.25 | 2.00 | 400/5000 | |
| | 18047 | | | 10 | | 2396 | Auto, Stop | 12.8 | 2.23A | 40.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 400 | |
| 27560 | | | 48 | | | 2397 | Auto, Stop, signal | 12.8/14.0 | 2.23/48A | 40.0/2.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | 400/5000 | |
| | | 19792 | | | 100 | 2556 | Aircraft | 28.0 | 200W | 525.0 | T3 | 2-Pin | CC-6 | 0.87 | 1.46 | 50 | 304 |
| | | 19566 | | | 100 | 2586 | Aircraft | 28.0 | 250W | 600.0 | T4 | 2-Pin with Insulation Leads | CC-6 | 1.30 | 1.90 | 100 | 304 |
| | 43805 | | | 10 | | 2604X | Instrument, Lens end | 5.0 | 2.0A | | TL2 3/4 | 2-Pin (G4) | C-6 | 1.18 | 5000 | 124,128,306 | |
| | 36508 | | | 10 | | 3011 | Aircraft | 28.0 | 1.29A | 44.0 | S11 | Single Contact Bayonet (BA15s) | C-2V | 1.25 | 2.38 | 1000 | 13 |
| 12305 | 18389 | | 48 | 50 | | 3057 | Auto, Stop, signal | 12.8/14.0 | 2.1/48A | 32.0/2.0 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 1200/5000 | |
| 26378 | | | 48 | | | 3057 LL | Auto, Long Life | 12.8/14.0 | 2.1/48A | 32.0/2.0 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 2000/10000 | |
| 89243 | | | 48 | | | 3057 NH | Auto, Nighthawk™ | 12.8/14.0 | 2.1/48A | 32.0/2.0 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | | |
| 12313 | 18391 | | 48 | 50 | | 3057NA | Auto, Amber | 12.8/14.0 | 2.1/48A | 24.0/1.5 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 1200/5000 | |
| | 14698 | | | 10 | | 3078 | Aircraft | 10.0 | 100W | 95.0 | T3 | Special | C-8 | 1.10 | 2.15 | 4500 | 304 |
| 23028 | | | 48 | | | 3155 | Auto, Signal | 12.8 | 1.60A | 21.0 | S8 | Plastic Wedge | C-6 | 1.10 | 2.09 | 1500 | |
| 12351 | 21863 | | 48 | 50 | | 3156 | Auto, Stop | 12.8 | 2.1A | 32.0 | S8 | Plastic Wedge | C-6 | 1.10 | 2.09 | 1200 | |
| 27565 | | | 48 | | | 3156 LL | Auto, Long Life | 12.8 | 2.1A | 32.0 | S8 | Plastic Wedge | C-6 | 1.10 | 2.09 | 2000 | |
| 71898 | | | 48 | | | 3156 NH | Auto, Nighthawk™ | 12.8 | 2.1A | 32.0 | S8 | Plastic Wedge | C-6 | 1.10 | 2.09 | | |
| 12306 | 17172 | | 48 | 50 | | 3157 | Auto, Stop, signal | 12.8/14.0 | 2.1/59A | 32.0/3.0 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 1200/5000 | |
| 26377 | | | 48 | | | 3157 LL | Auto, Long Life | 12.8/14.0 | 2.1/59A | 32.0/3.0 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 2000/10000 | |
| 89244 | | | 48 | | | 3157 NH | Auto, Nighthawk™ | 12.8/14.0 | 2.1/59A | 32.0/3.0 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | | |
| 12314 | 17173 | | 48 | 50 | | 3157NA | Auto, Amber | 12.8/14.0 | 2.1/59A | 24.0/2.2 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 1200/5000 | |
| 26380 | | | 48 | | | 3157NA LL | Auto, Amber, Long Life | 12.8/14.0 | 2.1/59A | 24.0/2.2 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 2000/10000 | |
| 71893 | | | 48 | | | 3157NA NH | Auto, Amber, Nighthawk™ | 12.8/14.0 | 2.1/59A | 24.0/2.2 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | | |
| 14387 | 22525 | | 48 | 50 | | 3357/3457 | Auto, Stop, signal | 12.8/14.0 | 2.1/59A | 40.0/3.0 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 400/5000 | |
| 26379 | | | 48 | | | 3357/3457 LL | Auto, Long Life | 12.8/14.0 | 2.1/59A | 40.0/3.0 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 800/10000 | |
| 71901 | | | 48 | | | 3457NH | Auto, Nighthawk™ | 12.8/14.0 | 2.1/59A | 40.0/3.0 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | | |
| 14388 | 22526 | | 48 | 50 | | 3357NA/3457NA | Auto, Amber | 12.8/14.0 | 2.1/59A | 30.0/2.2 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 400/5000 | |
| 67910 | | | 48 | | | 3357NALL/3457NALL | Auto, Amber, Long Life | 12.8/14.0 | 2.1/59A | 30.0/2.2 | S8 | Plastic Wedge | C-6/C-6 | 1.1 | 2.09 | 800/10000 | |
| 25834 | | | 48 | | | 3496 | Auto, Japanese | 12.8/14.0 | 2.1/59A | 43.0/3.0 | T7 | Double Contact Index (BAY15d) | C-6/C-6 | | 2.00 | 600/5000 | |
| 25835 | | | 48 | | | 3497 | Auto, Japanese | 12.8 | 2.1A | 45.0 | T7 | Single Contact Bayonet (BA15s) | C-6 | | 2.00 | 600 | |
| 25837 | | | 48 | | | 3652 | Auto, Japanese | 13.5 | .37A | 6.0 | T3 1/4 | Wedge (W2.1x9.5d) | | | 1.06 | 700 | |
| 15657 | | | 48 | | | 4157LL | Auto, Stop, signal | 12.8/14.0 | 2.23/59A | 32.0/3.0 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 3600/10000 | |
| 47458 | | | 48 | | | 4157NA LL | Auto, Stop, signal, Amber | 12.8/14.0 | 2.23/59A | 24.0/2.2 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 3600/10000 | |
| | 28154 | | | 24 | | 5004 CW | Aircraft-Cool White | A.C. | 4W | 11.9 | T5 | Miniature Pinless | | | 6.00 | 7500 | 32,162,309 |
| | 28155 | | | 24 | | 5004 WW | Aircraft-Warm White | A.C. | 4W | 11.1 | T5 | Miniature Pinless | | | 6.00 | 7500 | 32,162,309 |
| | 28160 | | | 24 | | 5008CW | Aircraft-Cool White | A.C. | 8W | 35.4 | T5 | Miniature Pinless | | | 12.00 | 7500 | 32,162,309 |
| | 28163 | | | 24 | | 5008WW | Aircraft-Warm White | A.C. | 8W | 34.6 | T5 | Miniature Pinless | | | 12.00 | 7500 | 32,162,309 |
| | 28168 | | | 24 | | 5013CW | Aircraft-Cool White | A.C. | 13W | 65.2 | T5 | Miniature Pinless | | | 21.00 | 7500 | 32,162,309 |
| | 28169 | | | 24 | | 5013WW | Aircraft-Warm White | A.C. | 13W | 62.8 | T5 | Miniature Pinless | | | 21.00 | 7500 | 32,162,309 |
| | 27367 | | | 24 | | 5104CW | Aircraft-Cool White | A.C. | 4W | 11.9 | T5 | Miniature Bi-Pin | | | 6.00 | 7500 | 32,162,309 |
| | 28173 | | | 24 | | 5104 WW | Aircraft-Warm White | A.C. | 4W | 11.1 | T5 | Miniature Bi-Pin | | | 6.00 | 7500 | 32,162,309 |
| | 12774 | | | 24 | | 5106CW | Aircraft-Cool White | A.C. | 6W | 24.7 | T5 | Miniature Bi-Pin | | | 9.00 | 7500 | 32,162,309 |
| | 33612 | | | 24 | | 5106WW | Aircraft-Warm White | A.C. | 6W | 23.9 | T5 | Miniature Bi-Pin | | | 9.00 | 7500 | 32,162,309 |
| | 27466 | | | 24 | | 5108CW | Aircraft-Cool White | A.C. | 8W | 35.4 | T5 | Miniature Bi-Pin | | | 12.00 | 7500 | 32,162,309 |
| | 28175 | | | 24 | | 5108 WW | Aircraft-Warm White | A.C. | 8W | 34.6 | T5 | Miniature Bi-Pin | | | 12.00 | 7500 | 32,162,309 |
| | 12775 | | | 24 | | 5113CW | Aircraft-Cool White | A.C. | 13W | 65.2 | T5 | Miniature Bi-Pin | | | 21.00 | 7500 | 32,162,309 |
| | 28178 | | | 24 | | 5113 WW | Aircraft-Warm White | A.C. | 13W | 62.8 | T5 | Miniature Bi-Pin | | | 21.00 | 7500 | 32,162,309 |
| | | 29897 | | | 1000 | 6034BP | Aircraft | 28.0 | .024A | 0.15 | T1 3/4 | Bi-Pin (M-23) | C-2F | | 0.64 | 5000 | |
| | | 29895 | | | 1000 | 6034BPGL | Aircraft | 28.0 | .024A | 0.15 | T1 3/4 | Bi-Pin (M-23) | C-2F | | 0.64 | 5000 | |
| | | 87360 | | | 1000 | 6832 | Aircraft | 5.0 | .06A | 0.05 | T1 | Short Wire Terminal | C-2R | | 0.14 | 100000 | |
| | | 87351 | | | 1000 | 6832AS15 | Aircraft | 5.0 | .06A | 0.05 | T1 | Short Wire Terminal | C-2R | | 0.14 | 100000 | |
| | | 87291 | | | 1000 | 6839 | Aircraft | 28.0 | .024A | 0.15 | T1 | Sub-Midget Flanged | CC-2F | | 0.36 | 16000 | |
| | | 29893 | | | 1000 | 6839BPE | Aircraft | 28.0 | .024A | 0.15 | T1 | Bi-Pin (M-23) | CC-2F | | 0.35 | 16000 | |
| | | 29894 | | | 1000 | 6839BPEGPL | Aircraft | 28.0 | .024A | 0.15 | T1 | Bi-Pin (M-23) | CC-2F | | 0.35 | 16000 | |
| | | 87274 | | | 1000 | 7132AS15 | Aircraft | 5.0 | .075A | 0.09 | T1 | Short Wire Terminal | C-2R | | 0.14 | 40000 | |

For the most up-to-date product information, see www.gelighting.com. All footnotes, warning and caution notices found at the end of this section (page 8-34).

Miniature, Sealed Beam and Automotive Lamps

Miniature Lamps (continued)

| Order Code | | | Case Qty | | | GE Lamp No. | Primary Application | Volts | Amps (A) or Watts (W) | MSCP | Bulb | Base | Filament | LCL (in) | MOL (in) | Rated Life (hrs) | Footnotes, Warning and Caution Notices |
|------------|-------|-------|----------|------|------|-------------|------------------------------------|-----------|-----------------------|------------|--------|------------------------|----------|----------|----------|------------------|--|
| Blister | Unit | Bulk | BP | Unit | Bulk | | | | | | | | | | | | |
| | | 87402 | | | 1000 | 7152 | Aircraft | 5.0 | .115A | 0.15 | T1 | Short Wire Terminal | C-2R | | 0.14 | 40000 | |
| | | 97548 | | | 1000 | 7152AS15 | Aircraft | 5.0 | .115A | 0.15 | T1 | Short Wire Terminal | C-2R | | 0.14 | 40000 | |
| | 28926 | | | 50 | | 7387 | Indicator | 28.0 | .04A | 0.3 | T1 3/4 | Bi-Pin (M-23) | C-2F | 0.50 | 0.61 | 7000 | 79 |
| 26200 | | | 48 | | | 7440 | Auto, Japanese Vehicles | 13.5 | 1.85A | 37.0 | T7 | Wedge (103x16DQ) | C-6 | | 1.75 | 300 | |
| 67905 | | | 48 | | | 7440LL | Auto, Japanese Vehicles, Long Life | 13.5 | 1.85A | 37 | T7 | Wedge (103x16DQ) | C-6 | | 1.75 | 600 | |
| 26201 | | | 48 | | | 7443 | Auto, Japanese Vehicles | 13.5/13.5 | 1.85/4A | 35.0/3.0 | T7 | Wedge (103x16DQ) | C-6/C-6 | | 1.75 | 500/1000 | |
| 67906 | | | 48 | | | 7443LL | Auto, Japanese Vehicles, Long Life | 13.5/13.5 | 1.85/4A | 35.0/3.0 | T7 | Wedge (103x16DQ) | C-6/C-6 | | 1.75 | 1000/2000 | |
| 89248 | | | 48 | | | 7443 NH | Auto, Nighthawk™ | 13.5/13.5 | 1.85/4A | 35.0/3.0 | T7 | Wedge (103x16DQ) | C-6/C-6 | | 1.75 | | |
| 22432 | 22389 | 14542 | 48 | 100 | 200 | 9003/HB2 | Auto headlamp | 12.8/12.8 | 60/55W | 119.0/72.0 | T4 3/4 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 150/800 | 4,306 |
| 78935 | | | 48 | | | 9003 LL | Auto headlamp, Long Life | 12.8/12.8 | 67/60W | 119.0/72.0 | T4 3/4 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 300/1600 | 4,306 |
| 25107 | | | 12 | | | 9003 NH | Auto, Nighthawk™ | 12.8/12.8 | 67/60W | 119.0/72.0 | T4 3/4 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 160/260 | 4,306 |
| 25150 | | | 24 | | | 9003 NH | Auto, Nighthawk™ | 12.8/12.8 | 67/60W | 119.0/72.0 | T4 3/4 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 160/260 | 4,306 |
| 89139 | | | 24 | | | 9003 NHS | Auto, Nighthawk™ Sport | 12.8/12.8 | 67/60W | 119.0/72.0 | T4 3/4 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 100/200 | 4,306 |
| 89230 | | | 12 | | | 9003 NHS | Auto, Nighthawk™ Sport | 12.8/12.8 | 67/60W | 119.0/72.0 | T4 3/4 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 100/200 | 4,306 |
| 66004 | | | 3 | | | 9003 NHS | Auto, Nighthawk™ Sport | 12.8/12.8 | 67/60W | 119.0/72.0 | T4 3/4 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 100/200 | 4,306 |
| 75814 | | | 12 | | | 9003 NHP | Auto, Nighthawk™ Platinum | 12.8/12.8 | 67/60W | 119.0/72.0 | T4 3/4 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 125/125 | 4,306 |
| 69861 | | | 12 | | | 9003 NHX | Auto, Nighthawk™ Xenon | 12.8/12.8 | 67/60W | 119.0/72.0 | T4 3/4 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 125/125 | 4,306 |
| 18508 | 13382 | | 48 | 100 | | 9004/HB1 | Auto headlamp | 12.8/12.8 | 65/45A | 95.0/55.0 | T4 3/4 | Axial Plastic Prefocus | C-6/C-6 | 1.75 | 4.17 | 150/320 | 4,306 |
| 13993 | 11249 | 20559 | 48 | 100 | 250 | 9004 LL | Auto, Long Life | 12.8/12.8 | 65/47W | 95.0/55.0 | T4 3/4 | Axial Plastic Prefocus | C-6/C-6 | 1.75 | 4.17 | 150/850 | 4,306 |
| 25106 | | | 12 | | | 9004 NH | Auto, Nighthawk™ | 12.8/12.8 | 65/45A | 95.0/55.0 | T4 3/4 | Axial Plastic Prefocus | C-6/C-6 | 1.75 | 4.17 | 150/225 | 4,306 |
| 25149 | | | 24 | | | 9004 NH | Auto, Nighthawk™ | 12.8/12.8 | 65/45A | 95.0/55.0 | T4 3/4 | Axial Plastic Prefocus | C-6/C-6 | 1.75 | 4.17 | 150/225 | 4,306 |
| 97698 | | | 24 | | | 9004 NHS | Auto, Nighthawk™ Sport | 12.8/12.8 | 65/45A | 95.0/55.0 | T4 3/4 | Axial Plastic Prefocus | C-6/C-6 | 1.75 | 4.17 | 97/178 | 4,306 |
| 97699 | | | 12 | | | 9004 NHS | Auto, Nighthawk™ Sport | 12.8/12.8 | 65/45A | 95.0/55.0 | T4 3/4 | Axial Plastic Prefocus | C-6/C-6 | 1.75 | 4.17 | 97/178 | 4,306 |
| 75815 | | | 12 | | | 9004 NHP | Auto, Nighthawk™ Platinum | 12.8/12.8 | 65/45A | 95.0/55.0 | T4 3/4 | Axial Plastic Prefocus | C-6/C-6 | 1.75 | 4.17 | 50/150 | 4,306 |
| 18509 | 13384 | 36431 | 48 | 100 | 200 | 9005/HB3 | Auto headlamp | 12.8 | 65W | 135.0 | T4 | Right Angle (P20d) | C-8 | 1.24 | 3.13 | 800 | 4,306 |
| 25105 | | | 12 | | | 9005 NH | Auto, Nighthawk™ | 12.8 | 65W | 135.0 | T4 | Right Angle (P20d) | C-8 | 1.24 | 3.13 | 340 | 4,306 |
| 25148 | | | 24 | | | 9005 NH | Auto, Nighthawk™ | 12.8 | 65W | 135.0 | T4 | Right Angle (P20d) | C-8 | 1.24 | 3.13 | 340 | 4,306 |
| 89140 | | | 24 | | | 9005 NHS | Auto, Nighthawk™ Sport | 12.8 | 65W | 135.0 | T4 | Right Angle (P20d) | C-8 | 1.24 | 3.13 | 340 | 4,306 |
| 89232 | | | 12 | | | 9005 NHS | Auto, Nighthawk™ Sport | 12.8 | 65W | 135 | T4 | Right Angle (P20d) | C-8 | 1.24 | 3.13 | 120 | 4,306 |
| 75816 | | | 12 | | | 9005 NHP | Auto, Nighthawk™ Platinum | 12.8 | 65W | 135 | T4 | Right Angle (P20d) | C-8 | 1.24 | 3.13 | 100 | 4,306 |
| 69862 | | | 12 | | | 9005 NHX | Auto, Nighthawk™ Xenon | 12.8 | 65W | 135 | T4 | Right Angle (P20d) | C-8 | 1.24 | 3.13 | 100 | 4,306 |
| 45866 | | | 48 | | | 9005 XS LL | Auto, Axial Base, Long Life | 12.8 | 65W | 135.0 | T4 | Axial Plastic | C-8 | 1.24 | 3.13 | 700 | 4,306 |
| 18510 | 13397 | 36432 | 48 | 100 | 200 | 9006/HB4 | Auto headlamp | 12.8 | 51W | 80.0 | T4 | Right Angle (P22d) | C-8 | 1.24 | 3.13 | 850 | 4,306 |
| 25104 | | | 12 | | | 9006 NH | Auto, Nighthawk™ | 12.8 | 55W | 80.0 | T4 | Right Angle (P22d) | C-8 | 1.24 | 3.13 | 1200 | 4,306 |
| 25147 | | | 24 | | | 9006 NH | Auto, Nighthawk™ | 12.8 | 55W | 80.0 | T4 | Right Angle (P22d) | C-8 | 1.24 | 3.13 | 1200 | 4,306 |
| 97700 | | | 24 | | | 9006 NHS | Auto, Nighthawk™ Sport | 12.8 | 55W | 80.0 | T4 | Right Angle (P22d) | C-8 | 1.24 | 3.13 | 400 | 4,306 |
| 97701 | | | 12 | | | 9006 NHS | Auto, Nighthawk™ Sport | 12.8 | 55W | 80.0 | T4 | Right Angle (P22d) | C-8 | 1.24 | 3.13 | 400 | 4,306 |
| 75817 | | | 12 | | | 9006 NHP | Auto, Nighthawk™ Platinum | 12.8 | 55W | 80 | T4 | Right Angle (P22d) | C-8 | 1.24 | 3.13 | 125 | 4,306 |
| 69863 | | | 12 | | | 9006 NHX | Auto, Nighthawk™ Xenon | 12.8 | 55W | 80 | T4 | Right Angle (P22d) | C-8 | 1.24 | 3.13 | 125 | 4,306 |
| 45868 | | | 48 | | | 9006 XS LL | Auto, Axial Base, Long Life | 12.8 | 55W | 80.0 | T4 | Axial Plastic | C-8 | 1.24 | 3.13 | 1500 | 4,306 |
| 22388 | 20551 | 20552 | 48 | 100 | 250 | 9007/HB5 | Auto headlamp | 12.8/12.8 | 65/55W | 107.0/79.0 | T4 3/4 | Axial Plastic Prefocus | C-8/C-8 | 1.75 | 4.17 | 150/1,100 | 4,306 |
| 78639 | | | 48 | | | 9007 LL | Auto headlamp, Long Life | 12.8/12.8 | 65/55W | 107.0/79.0 | T4 3/4 | Axial Plastic Prefocus | C-8/C-8 | 1.75 | 4.17 | 300/2200 | 4,306 |
| 25103 | | | 12 | | | 9007 NH | Auto, Nighthawk™ | 12.8/12.8 | 65/55W | 107.0/79.0 | T4 3/4 | Axial Plastic Prefocus | C-8/C-8 | 1.75 | 4.17 | 250/250 | 4,306 |
| 25146 | | | 24 | | | 9007 NH | Auto, Nighthawk™ | 12.8/12.8 | 65/55W | 107.0/79.0 | T4 3/4 | Axial Plastic Prefocus | C-8/C-8 | 1.75 | 4.17 | 250/250 | 4,306 |
| 97696 | | | 24 | | | 9007 NHS | Auto, Nighthawk™ Sport | 12.8/12.8 | 65/55W | 107.0/79.0 | T4 3/4 | Axial Plastic Prefocus | C-8/C-8 | 1.75 | 4.17 | 131/370 | 4,306 |

Miniature Lamps (continued)

| Order Code | | | Case Qty | | | GE Lamp No. | Primary Application | Volts | Amps (A) or Watts (W) | MSCP | Bulb | Base | Filament | LCL (in) | MOL (in) | Rated Life (hrs) | Footnotes, Warning and Caution Notices |
|------------|-------|-------|----------|------|------|---------------|------------------------------------|-----------|-----------------------|------------|--------|--------------------------|----------|----------|----------|------------------|--|
| Blister | Unit | Bulk | BP | Unit | Bulk | | | | | | | | | | | | |
| 97697 | | | 12 | | | 9007 NHS | Auto, Nighthawk™ Sport | 12.8/12.8 | 65/55W | 107.0/79.0 | T4 3/4 | Axial Plastic Prefocus | C-8/C-8 | 1.75 | 4.17 | 131/370 | 4,306 |
| 75818 | | | | | | 9007 NHP | Auto, Nighthawk™ Platinum | 12.8/12.8 | 65/55W | 107.0/79.0 | T4 3/4 | Axial Plastic Prefocus | C-8/C-8 | 1.75 | 4.17 | 90/150 | 4,306 |
| 69864 | | | 12 | | | 9007 NHX | Auto, Nighthawk™ Xenon | 12.8/12.8 | 65/55W | 107.0/79.0 | T4 3/4 | Axial Plastic Prefocus | C-8/C-8 | 1.75 | 4.17 | 90/150 | 4,306 |
| 71342 | | | 48 | | | 9008(H13) | Auto headlamp | 12.8/12.8 | 65/55W | 119.0/79.6 | T4 5/8 | P26.4t | C-8/C-8 | 1.00 | 3.54 | 320/150 | 4,306 |
| 78653 | | | 12 | | | 9008(H13) NH | Auto headlamp, Nighthawk™ | 12.8/12.8 | 65/55W | 119.0/79.6 | T4 5/8 | P26.4t | C-8/C-8 | 1 | 3.54 | 320/150 | 4,306 |
| 78654 | | | 12 | | | 9008(H13) NHS | Auto headlamp, Nighthawk™ Sport | 12.8/12.8 | 65/55W | 119.0/79.6 | T4 5/8 | P26.4t | C-8/C-8 | 1 | 3.54 | 320/150 | 4,306 |
| 62430 | | | 12 | | | 9008(H13) NHP | Auto headlamp, Nighthawk™ Platinum | 12.8/12.8 | 65/55W | 119.0/79.6 | T4 5/8 | P26.4t | C-8/C-8 | 1 | 3.54 | 320/150 | 4,306 |
| 40843 | | 42382 | 48 | | 200 | 9145/H10 | Auto Fog | 12.8 | 45W | 65.0 | T4 | PY20D | C-8 | 1.24 | 3.01 | 1500 | 4,306 |
| 47461 | | | 48 | | | 58540 | Auto, Halogen | 13.5 | .37A | 63.0 | T3 | Miniature Bayonet (Ba9s) | C-2R | 0.59 | 1.22 | 240 | 308 |
| | 26696 | | | 10 | | A-103 | Aircraft | 28.0 | 50W | 60.0 | T3 | Bi-Pin (Special) | CC-8 | | 1.87 | 1000 | 304 |
| | 12064 | | | 10 | | B1A | Neon Glow-NE51 | 120.0 | 1/25W | | T3 1/4 | Miniature Bayonet (Ba9s) | | | 1.19 | 15000 | 164 |
| | 12065 | | | 10 | | B2A | Neon Glow-NE51H | 120.0 | 1/7W | | T3 1/4 | Miniature Bayonet (Ba9s) | | | 1.19 | 25000 | 164 |
| | 31675 | | | 10 | | B7A | Neon Glow-NE45 | 120.0 | 1/4W | | T4 1/2 | Candelabra Screw (E12) | | | 1.53 | 7500 | 164 |
| 23312 | | | 48 | | | C5W | Auto. ECE C5W | 13.5 | .37A | 3.6 | T3 1/2 | SV8.5MM | | | 1.45 | 450 | |
| | 78734 | | | 12 | | D1S | Auto Discharge-Projector | 85 | 35W | | | | | 1.06 | | 3000 | 1,2310 |
| | 80851 | 70603 | | 24 | 144 | D2R | Auto Discharge-Reflector | 85.0 | 35W | 114.0 | T3 | P32d-3 | | 1.06 | 3.09 | 1000 | 1,2310 |
| | 25088 | 70605 | | 24 | 144 | D2S | Auto Discharge-Projector | 85.0 | 35W | 254.0 | T3 | P32d-2 | | 1.06 | 3.09 | 1000 | 1,2310 |
| | 90057 | | | 32 | | D2S BLUE | Non-Auto Discharge | 85.0 | 35W | | T3 | P32d-2 | | 1.06 | 3.09 | 1000 | 1,2310 |
| | 90059 | | | 32 | | D2S SUPERBLUE | Non-Auto Discharge | 85.0 | 35W | | T3 | P32d-2 | | 1.06 | 3.09 | 1000 | 1,2310 |
| 25323 | | | 48 | | | DE3021 | Auto | 14.0 | .24A | 2.0 | T2 1/4 | #10 Spade | | | 1.15 | 1000 | |
| 12353 | | | 48 | | | DE3022 | Auto | 13.0 | .38A | 3.0 | T2 1/4 | #10 Spade | | | 1.18 | 1000 | |
| 12354 | 12084 | 28858 | 48 | 50 | 5000 | DE3175 | Auto | 13.0 | .77A | 9.6 | T3 1/4 | SV8.5MM | | | 1.25 | 400 | |
| 67909 | | | 48 | | | DE3175LL | Auto, Long Life | 13 | .77A | 9.6 | T3 1/4 | SV8.5MM | | | 1.25 | 800 | |
| 89245 | | | 48 | | | DE3175 NH | Auto, Nighthawk™ | 13.0 | .77A | 9.6 | T3 1/4 | SV8.5MM | | | 1.25 | | |
| | 12085 | | | 10 | | DE 3425 | Auto | 13.0 | .77A | 9.6 | T4 | SV8.5MM | | | 1.50 | 400 | |
| 23324 | | | 48 | | | DE7576 | Strip Lighting | 13.5 | .74A | 9.8 | T3 1/2 | SV8.5MM | | | 1.65 | 200 | |
| 40336 | 27328 | 32376 | 48 | 10 | 300 | H1-55 | Auto, GE 50310/1 | 13.2 | 62W | 123.0 | T3 1/2 | P14.5S | C-8 | 1.08 | 2.66 | 225 | 308 |
| 25159 | | | 24 | | | H1-55 NH | Auto, Nighthawk™ | 13.2 | 62W | 123.0 | T3 1/2 | P14.5S | C-8 | 1.08 | 2.66 | 1000 | 308 |
| 25092 | | | 12 | | | H1-55 NH | Auto, Nighthawk™ | 13.2 | 62W | 123.0 | T3 1/2 | P14.5S | C-8 | 1.08 | 2.66 | 1000 | 308 |
| 94193 | | | 12 | | | H1-55NHP | Auto, Nighthawk™ Platinum | 13.2 | 62W | 123 | T3 1/2 | P14.5S | C-8 | 1.08 | 2.66 | 250 | 308 |
| 69857 | | | 12 | | | H1-55NHX | Auto, Nighthawk™ Xenon | 13.2 | 62W | 123 | T3 1/2 | P14.5S | C-8 | 1.08 | 2.66 | 250 | 308 |
| 78134 | | | 12 | | | H1-55NHP | Auto, Nighthawk™ Platinum | 13.2 | 62W | 123 | T3 1/2 | P14.5S | C-8 | 1.08 | 2.66 | 250 | 308 |
| | 27569 | | | 10 | | H1-70 | Auto, GE50230/1 | 28.0 | 80W | 151.0 | T3 1/2 | P14.5S | C-8 | 1.08 | 2.46 | 600 | 308 |
| | 27330 | | | 10 | | H2-55 | Auto, GE 50410 | 13.2 | 62W | 143.0 | T3 1/2 | X511 | C-8 | 0.48 | 1.22 | 225 | 308 |
| | | 23442 | | | 400 | H3-35 | CIM, GE 50390 | 13.2 | 40W | 60.0 | T3 1/2 | PK22S | C-6 | 0.71 | 1.65 | 200 | 308 |
| 12339 | 27331 | 22132 | 48 | 10 | 400 | H3-55 | Auto, GE 50340 | 12 | 62W | 115.0 | T3 1/2 | PK22S | C-6 | 0.71 | 1.65 | 225 | 308 |
| | | 23445 | | | 400 | H3-55D | CIM, GE 50340D | 13.2 | 62W | 111.0 | T3 1/2 | PK22S | C-6 | 0.71 | 1.65 | 600 | 308 |
| | | 35044 | | | 400 | H3-55LL | Auto, GE50340, Long Life | 13.2 | 64W | 106.0 | T3 1/2 | PK22S | C-6 | 0.71 | 1.65 | 2000 | 308 |
| | | 23428 | | | 400 | H3-65/28V | CIM, GE 52590D | 28.0 | 66W | 102.0 | T3 1/2 | PK22S | C-6 | 0.71 | 1.65 | 1000 | 308 |
| | 27332 | | | 10 | | H3-70/28V | CIM, GE50350 | 28.0 | 75W | 135.0 | T3 1/2 | PK22S | CC-6 | 0.71 | 1.65 | 225 | 308 |
| 12341 | | | 48 | | | H3-100 | Off Road, GE52130 | 13.2 | 92W | 187.0 | T3 1/2 | PK22S | C-6 | 0.71 | 1.65 | 100 | 308 |
| 18132 | 27334 | 22133 | 48 | 10 | 200 | H4-60/55 | Auto H4, GE 50440 | 13.2/13.2 | 71/66W | 138.0/80.0 | T5 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 225/900 | 308 |
| 25094 | | | 24 | | | H4-60 NH | Auto, Nighthawk™ | 13.2/13.2 | 71/66W | 138.0/80.0 | T5 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 300 | |
| 75820 | | | 12 | | | H4-60NHP | Auto, Nighthawk™ Platinum | 13.2/13.2 | 71/66W | 138.0/80.0 | T5 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 250/250 | |
| 69858 | | | 12 | | | H4-60NHX | Auto, Nighthawk™ Xenon | 13.2/13.2 | 71/66W | 138.0/80.0 | T5 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 250/250 | |
| | 27342 | 93732 | | 10 | 200 | H4-75/70/24V | Bus, GE 50450 | 24.0/24.0 | 80/73W | 151.0/95.0 | T5 | P43T-38 | C-8/C-8 | 1.14 | 3.62 | 150/300 | 308 |
| 26374 | | 38641 | 48 | | 200 | H7-55 | Auto, ECE/DOT, GES8520 | 13.2 | 57W | 115.0 | T3 1/2 | PX26D | C-8 | 0.98 | 2.36 | 500 | 308 |
| 78640 | | | 48 | | | H7-55 LL | Auto, ECE/DOT, GES8520, Long Life | 13.2 | 57W | 115 | T3 1/2 | PX26D | C-8 | 0.98 | 2.36 | 1000 | 308 |
| | | 35755 | | | 200 | H7-55LL | Auto, ECE/DOT | 13.2 | 57W | 115.0 | T3 1/2 | PX26D | C-8 | 0.98 | 2.36 | 610 | |
| 25160 | | | 24 | | | H7-55 NH | Auto, Nighthawk™ | 13.2 | 57W | 115.0 | T3 1/2 | PX26D | C-8 | 0.98 | 2.36 | 250 | |

For the most up-to-date product information, see www.gelighting.com.

All footnotes, warning and caution notices found at the end of this section (page 8-34).

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

Miniature, Sealed Beam and Automotive Lamps

Miniature Lamps (continued)

| Order Code | | | Case Qty | | | GE Lamp No. | Primary Application | Volts | Amps (A) or Watts (W) | MSCP | Bulb | Base | Filament | LCL (in) | MOL (in) | Rated Life (hrs) | Footnotes, Warning and Caution Notices |
|------------|-------|-------|----------|------|------|----------------|------------------------------------|-----------|-----------------------|------------|--------|----------------------------------|----------|----------|----------|------------------|--|
| Blister | Unit | Bulk | BP | Unit | Bulk | | | | | | | | | | | | |
| 89141 | | | 24 | | | H7-55 NHS | Auto, Nighthawk™ Sport | 13.2 | 57W | 115.0 | T3 1/2 | PX26D | C-8 | 0.98 | 2.36 | 130 | 308 |
| 89235 | | | 12 | | | H7-55 NHS | Auto, Nighthawk™ Sport | 13.2 | 57W | 115 | T3 1/2 | PX26D | C-8 | 0.98 | 2.36 | 130 | 308 |
| 66006 | | | 3 | | | H7-55 NHS | Auto, Nighthawk™ Sport | 13.2 | 57W | 115 | T3 1/2 | PX26D | C-8 | 0.98 | 2.36 | 130 | 308 |
| 75821 | | | 12 | | | H7-55NHP | Auto, Nighthawk™ Platinum | 13.2 | 57W | 115 | T3 1/2 | PX26D | C-8 | 0.98 | 2.36 | 130 | 308 |
| 69860 | | | 12 | | | H7-55NHX | Auto, Nighthawk™ Xenon | 13.2 | 57W | 115 | T3 1/2 | PX26D | C-8 | 0.98 | 2.36 | 130 | 308 |
| 29047 | | 15765 | 48 | | 140 | H8 | Auto, ECE Fog | 13.2 | 40W | 64.0 | T3 1/2 | PGJ19-1 | C-8 | 1.06 | 2.63 | 400 | 2,308 |
| 29049 | | 15827 | 48 | | 140 | H9 | Auto, ECE headlamp | 13.2 | 65W | 167.0 | T3 1/2 | PGJ19-5 | C-8 | 1.08 | 2.63 | 125 | 2,308 |
| 23762 | | 15828 | 48 | | 140 | H11 | Auto, ECE headlamp | 13.2 | 55W | 107.0 | T3 1/2 | PGJ19-2 | C-8 | 1.07 | 2.63 | 550 | 2,308 |
| 89255 | | 15963 | 48 | | 140 | H11LL | Auto, ECE headlamp. Long Life | 13.2 | 55W | 107.0 | T3 1/2 | PGJ19-2 | C-8 | 1.07 | 2.63 | 1100 | 4,308 |
| 62267 | | | 12 | | | H11-55NHP | Auto, Nighthawk™ Platinum | 13.2 | 55W | 107 | T3 1/2 | PGJ19-2 | C-8 | 1.07 | 2.63 | 125 | 4,308 |
| 69865 | | | 12 | | | H11-55NHX | Auto, Nighthawk™ Xenon | 13.2 | 55W | 107 | T3 1/2 | PGJ19-2 | C-8 | 1.07 | 2.63 | 125 | 4,308 |
| 76189 | | | 12 | | | H11 C55NHP | Auto, Nighthawk™ Platinum | 13.2 | 55W | 107 | T3 1/2 | PGJ19-2 | C-8 | 1.07 | 2.63 | 125 | 4,308 |
| 71342 | | | 48 | | | H13 (9008) | Auto headlamp | 12.8/12.8 | 65/55W | 119.0/79.6 | T4 5/8 | P26.4t | C-8/C-8 | 1.00 | 3.54 | 320/150 | 308 |
| 78653 | | | 12 | | | H13 (9008) NH | Auto headlamp, Nighthawk™ | 12.8/12.8 | 65/55W | 119.0/79.6 | T4 5/8 | P26.4t | C-8/C-8 | 1 | 3.54 | 320/150 | 4,306 |
| 78654 | | | 12 | | | H13 (9008) NHS | Auto headlamp, Nighthawk™ Sport | 12.8/12.8 | 65/55W | 119.0/79.6 | T4 5/8 | P26.4t | C-8/C-8 | 1 | 3.54 | 320/150 | 4,306 |
| 62430 | | | 12 | | | H13 (9008) NHP | Auto headlamp, Nighthawk™ Platinum | 12.8/12.8 | 65/55W | 119.0/79.6 | T4 5/8 | P26.4t | C-8/C-8 | 1 | 3.54 | 320/150 | 4,306 |
| 22961 | | | 48 | | | KPR102 | Flashlight-2D Krypton | 2.4 | .7A | 3.0 | B3 1/2 | Single Contact Miniature Flanged | C-2R | 0.25 | 48.00 | 15 | 116 |
| 23153 | | | 48 | | | KPR 113 | Flashlight-4D Krypton | 4.8 | .47A | 4.1 | B3 1/2 | Single Contact Miniature Flanged | C-2R | 0.25 | 1.25 | 20 | 116 |
| 23306 | | | 48 | | | P21W | Auto, ECE Stop | 13.5 | 1.85A | 36.6 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 250 | |
| 89247 | | | 48 | | | P21W NH | Auto, Nighthawk™ | 13.5 | 1.85A | 36.6 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | | |
| 20695 | | 30852 | 48 | | 1000 | P21W LL | Auto, Long Life | 13.5 | 1.85A | 36.6 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 300 | |
| 67896 | | | 48 | | | P21W LL | Auto, Long Life | 13.5 | 1.85A | 36.6 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2 | 300 | |
| | 40778 | | | 10 | | P21W 24V | Bus, Stop | 28.0 | 1.0A | 36.6 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 150 | |
| 27561 | | | 48 | | | P21/4W | Auto, ECE, Stop, tail | 13.5/13.5 | 1.85/37A | 35.0/1.19 | S8 | Double Contact Index (BAV15d) | C-6/C-6 | 1.25 | 2.00 | 100/100 | |
| 23303 | | 30856 | 48 | | 1000 | P21/SW | Auto, ECE, Stop, tail | 13.5/13.5 | 1.85/44 | 35.0/2.78 | S8 | Double Contact Index (BAV15d) | C-6/C-6 | 1.25 | 2.00 | 250 1000 | |
| 67894 | | | 48 | | | P21/5WLL | Auto, ECE, Stop, tail, Long Life | 13.5/13.5 | 1.85/44 | 35.0/2.78 | S8 | Double Contact Index (BAV15d) | C-6/C-6 | 1.25 | 2 | 500/2000 | |
| | | 21274 | | | 1000 | P21/5W LL | Auto, Long Life | 13.5/13.5 | 1.85/44 | 35.0/2.78 | S8 | Double Contact Index (BAV15d) | C-6/C-6 | 1.25 | 2.00 | 600/3000 | |
| 89246 | | | 48 | | | P21/5W NH | Auto, Nighthawk™ | 13.5/13.5 | 1.85/44 | 35.0/2.78 | S8 | Double Contact Index (BAV15d) | C-6/C-6 | 1.25 | 2.00 | | |
| | 27222 | 23037 | | 10 | 1000 | PC168 | Auto Instrument | 14.0 | 35A | 3.0 | T3 1/4 | Printed Circuit Socket | C-2F | 0.45 | 1.11 | 1500 | |
| | 27221 | | | 10 | | PC194 | Auto Instrument | 14.0 | .27A | 2.0 | T3 1/4 | Printed Circuit Socket | C-2F | 0.45 | 1.11 | 2500 | |
| 12675 | 25181 | | 48 | 50 | | PR2 | Flashlight-2D cells | 2.4 | .5A | 0.8 | B3 1/2 | Single Contact Miniature Flanged | C-2R | 0.25 | 1.25 | 15 | 116 |
| 12676 | 25193 | | 48 | 50 | | PR3 | Flashlight-3D cells | 3.6 | .5A | 1.5 | B3 1/2 | Single Contact Miniature Flanged | C-2R | 0.25 | 1.25 | 15 | 116 |
| 12677 | | | 48 | | | PR4 | Flashlight-2C cells | 2.3 | .27A | 0.4 | B3 1/2 | Single Contact Miniature Flanged | C-2R | 0.25 | 1.25 | 15 | 116 |
| | 25222 | | | 50 | | PR6 | Flashlight-2D cells | 2.5 | .3A | 0.5 | B3 1/2 | Single Contact Miniature Flanged | C-2R | 0.25 | 1.25 | 30 | 116 |
| | 25235 | | | 50 | | PR7 | Flashlight-3D cells | 3.7 | .3A | 0.9 | B3 1/2 | Single Contact Miniature Flanged | C-2R | 0.25 | 1.25 | 30 | 116 |
| | 25252 | | | 50 | | PR12 | Flashlight-5D cells | 6.0 | .5A | 3.1 | B3 1/2 | Single Contact Miniature Flanged | C-2R | 0.25 | 1.25 | 15 | 116 |
| 12681 | 25262 | | 48 | 50 | | PR13 | Flashlight-4F cells | 4.8 | .5A | 2.2 | B3 1/2 | Single Contact Miniature Flanged | C-2R | 0.25 | 1.25 | 15 | 116 |
| | 25289 | | | 50 | | PR18 | Flashlight-6D cells | 7.2 | .55A | 5.5 | B3 1/2 | Single Contact Miniature Flanged | C-2R | 0.25 | 1.25 | 3 | 116 |
| 41370 | | 18294 | 48 | | 500 | PV21W | Auto, ECE, Stop, Tail, Amber | 13.5 | 1.85A | 22.3 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 250 | |
| 23314 | | | 48 | | | R5W | Auto, ECE, GE2619 | 13.5 | 5W | 4.0 | G6 | Single Contact Bayonet (BA15s) | C-2R | 0.75 | 1.47 | | |
| 23765 | | 30859 | | | 2000 | R5WLL | Auto, ECE | 13.5 | 5W | 4.0 | G6 | Single Contact Bayonet (BA15s) | C-2R | 0.75 | 1.47 | 500 | |
| 23322 | | 35417 | 48 | | 2000 | R10W | Auto, ECE, GE2641 | 13.5 | 10W | 10.0 | G6 | Single Contact Bayonet (BA15s) | C-2R | 0.75 | 1.47 | 400 | |
| 23318 | | | 48 | | | T4W | Auto, ECE, GE2662 | 13.5 | 4W | 2.8 | T2 3/4 | Miniature Bayonet (Ba9s) | C-2R | 0.59 | 1.08 | 450 | |
| | 12756 | | | 50 | | TEL/6PSB | Telephone Indicator | 6.0 | .14A | 550.0 | T2 | Tel. Slide No. 5 | C-2V | 1.11 | 1.11 | 20000 | 80 |
| | 12760 | | | 50 | | TEL/12PSB | Telephone Indicator | 12.0 | .17A | 2000.0 | T2 | Tel. Slide No. 5 | C-2F | 1.11 | 1.11 | 12000 | 80 |
| | 29001 | | | 50 | | TEL/24E2 | Telephone Indicator | 24.0 | .035A | 600.0 | T2 | Tel. Slide No. 3 | C-2F | 1.69 | 1.69 | 7000 | 80 |
| | 12071 | | | 50 | | TEL/24PSB | Telephone Indicator | 24.0 | .073A | 3000.0 | T2 | Tel. Slide No. 5 | C-2F | 1.11 | 1.11 | 10000 | 80 |
| | 12761 | | | 50 | | TEL/28MB | Telephone Indicator | 28.0 | .04A | 0.3 | T2 1/2 | Miniature Bayonet (Ba9s) | C-2F | 1.19 | 1.19 | 5000 | 80 |
| | 12072 | | | 50 | | TEL/28PSB | Telephone Indicator | 28.0 | .04A | 1600.0 | T2 | Tel. Slide No. 5 | C-2F | 1.11 | 1.11 | 5000 | 80 |
| | 29041 | | | 50 | | TEL/48C2 | Telephone Indicator | 48.0 | .035A | 750.0 | T2 | Tel. Slide No. 3 | C-2F | 1.69 | 1.69 | 5000 | 80 |
| | 12075 | | | 50 | | TEL/48PSB | Telephone Indicator | 48.0 | .05A | 1800.0 | T2 | Tel. Slide No. 5 | C-7A | 1.11 | 1.11 | 10000 | 80 |
| | 12076 | | | 50 | | TEL/60MB | Telephone Indicator | 60.0 | .05A | 0.7 | T2 1/2 | Miniature Bayonet (Ba9s) | C-7A | 1.19 | 1.19 | 7500 | 80 |
| | 12077 | | | 50 | | TEL/60PSB | Telephone Indicator | 60.0 | .05A | 1800.0 | T2 | Tel. Slide No. 5 | C-7A | 1.11 | 1.11 | 7500 | 80 |

Miniature Lamps (continued)

| Order Code | | | Case Qty | | | GE Lamp No. | Primary Application | Volts | Amps (A) or Watts (W) | MSCP | Bulb | Base | Filament | LCL (in) | MOL (in) | Rated Life (hrs) | Footnotes, Warning and Caution Notices |
|------------|-------|-------|----------|------|------|-------------|----------------------|-------|-----------------------|--------|--------|--------------------------|----------|----------|----------|------------------|--|
| Blister | Unit | Bulk | BP | Unit | Bulk | | | | | | | | | | | | |
| | 12078 | | | 50 | | TEL/120MB | Telephone Indicator | 120.0 | .025A | 0.4 | T2 1/2 | Miniature Bayonet (Ba9s) | CC-7A | | 1.19 | 7500 | 80 |
| | 12080 | | | 50 | | TEL/120PSB | Telephone Indicator | 120.0 | .025A | 1000.0 | T2 | Tel. Slide No. 5 | CC-7A | | 1.11 | 7500 | 80 |
| 27562 | | 35030 | 48 | | 2000 | W3W | Auto, ECE | 13.5 | 3W | 1.8 | T3 1/4 | Wedge (W2.1x9.5d) | C-2V | 0.50 | 1.06 | 1000 | |
| 27563 | | 28759 | 48 | | 2000 | W5W | Auto, ECE | 13.5 | 5W | 4.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2V | 0.50 | 1.06 | 300 | |
| 67895 | | | 48 | | | W5WLL | Auto, ECE, Long Life | 13.5 | 5W | 4 | T3 1/4 | Wedge (W2.1x9.5d) | C-2V | 0.5 | 1.06 | 600 | |
| | | 26353 | | | 1000 | W16W | Auto, ECE | 13.5 | 16W | 24.6 | T5 | Wedge (W2.1x9.5d) | C-2F | 0.81 | 1.49 | 250 | 121 |
| | | 20280 | | | 1000 | W16W | Auto, ECE | 13.5 | 16W | 24.6 | T5 | Wedge (W2.1x9.5d) | C-2F | 0.81 | 1.49 | 250 | 121 |
| | | 20279 | | | 1000 | W5W | Auto, ECE, Amber | 13.5 | 5W | 3.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2V | 0.50 | 1.06 | 300 | |

Sealed Beam and Automotive Lamps

| Product Code | | Quantity | | GE Lamp No. | Bulb | Applications | Volts | Watts | MBCP | Base | MOL (in) | Rated Life (hrs) | Spread to 10% MBCP | | Footnotes, Warning and Caution Notices |
|--------------|-------|----------|------|-------------|-------|-----------------------------|-----------|-------|-----------|---------------------|-----------|------------------|--------------------|----------|--|
| Unit | Bulk | Unit | Bulk | | | | | | | | | | Horizontal | Vertical | |
| 18511 | | 6 | | 4000 | PAR46 | Headlamp-Low beam | 12.8/12.8 | 38/60 | SAE | 3 Contact Lugs | 4.00 | 200/320 | | | 4 |
| 24327 | | 12 | | 4013 | PAR46 | Tractor, Flood | 6.4 | 25 | 800 | Screw Terminals | 3.75 | 300 | 80° | 20° | |
| | 24338 | | 60 | 4014 | PAR36 | Emergency Building Light | 6.4 | 18 | 1500 | Screw Terminals | 2.75 | 200 | 50° | 25° | |
| 24369 | | 12 | | 4019 | PAR46 | Tractor | 6.2 | 30 | 1200 | Screw Terminals | 3.75 | 300 | Trapezoidal | | 23 |
| 38418 | | 12 | | 4040 | PAR46 | Truck, Low beam | 12.8/12.8 | 38/60 | SAE | 3 Contact Lugs | 4.00 | 300/500 | | | 4 |
| 39585 | 39586 | 12 | 60 | 4042 | PAR36 | Emergency Building Light | 6.4 | 12 | 1100 | Screw Terminals | 2.75 | 150 | 45° | 20° | |
| 40588 | 40589 | 12 | 60 | 4044 | PAR36 | Emergency Building Light | 12.0 | 12 | 1100 | Screw Terminals | 2.75 | 150 | 50° | 25° | |
| 10540 | 10541 | 12 | 60 | 4044-1 | PAR36 | Emergency Building Light | 12.0 | 12 | 1100 | Slip-on Terminals | 2.75 | 150 | 50° | 25° | |
| 25051 | | 12 | | 4313 | PAR36 | Aircraft Landing | 13.0 | 250 | 140000 | Screw Terminals | 2.75 | 25 h | 16° | 7° | 302 |
| 39366 | 39367 | 12 | 60 | 4340 | PAR36 | Electric Truck Worklight | 48.0 | 80 | 2500 | Slip-on Terminals | 2.75 | 400 | Trapezoidal | | 15 |
| 39362 | 39363 | 12 | 60 | 4350 | PAR36 | Electric Truck Worklight | 36.0 | 60 | 2100 | Slip-on Terminals | 2.75 | 400 | Trapezoidal | | 15 |
| 12961 | | 12 | | 4402A | PAR36 | CIM Signal | 28.0 | 50 | 1000 | Screw Terminals | 2.75 | 400 | 50° | 25° | |
| 24425 | 24423 | 12 | 60 | 4405 | PAR36 | Spotlamp | 12.8 | 30 | 50000 | Screw Terminals | 2.75 | 100 | 6° | 5° | 167 |
| 24430 | 24428 | 12 | 60 | 4406 | PAR36 | Tractor, Flood | 12.8 | 35 | 600 | Screw Terminals | 2.75 | 300 | 80° | 30° | 4 |
| 24439 | | 12 | | 4410 | PAR36 | Backup, Tractor Flood | 12.8 | 35 | 600 | Screw Terminals | 2.75 | 300 | 80° | 30° | 4 |
| 24448 | 24443 | 12 | 60 | 4411 | PAR36 | Tractor | 12.8 | 35 | 3000 | Screw Terminals | 2.75 | 300 | Trapezoidal | | 4 |
| 37889 | 37890 | 12 | 60 | 4411-1 | PAR36 | Tractor | 12.8 | 35 | 3000 | Slip-on Terminals | 2.75 | 300 | Trapezoidal | | 4 |
| 29040 | | 12 | | 4411-3 | PAR36 | Tractor | 12.8 | 35 | 3000 | Combination | 2.75 | 300 | Trapezoidal | | 4 |
| 24454 | 24453 | 12 | 24 | 4412 | PAR46 | Fog | 12.8 | 35 | 11000 | Screw Terminals | 3.75 | 300 | 40° | 7° | 167 |
| 24460 | 24459 | 12 | 24 | 4412A | PAR46 | Fog, yellow | 12.8 | 35 | 8800 | Screw Terminals | 3.75 | 300 | 40° | 7° | 167 |
| 22981 | 24464 | 12 | 24 | 4413 | PAR46 | Tractor, Flood | 12.8 | 35 | 1100 | Screw Terminals | 3.75 | 300 | 80° | 20° | 4 |
| 24478 | 24477 | 12 | 60 | 4414 | PAR36 | Garden | 12.8 | 18 | 1500 | Screw Terminals | 2.75 | 300 | 50° | 25° | |
| 24487 | | 12 | | 4414R | PAR36 | Warning Signal, Red Lens | 12.8 | 18 | 275 | Screw Terminals | 2.75 | 300 | 50° | 25° | |
| 22982 | 24490 | 12 | 60 | 4415 | PAR36 | Fog | 12.8 | 35 | 9000 | Screw Terminals | 2.75 | 300 | 40° | 5° | 167 |
| 24499 | 24497 | 12 | 60 | 4415A | PAR36 | Truck Fog, Amber Lens | 12.8 | 35 | 7000 | Screw Terminals | 2.75 | 300 | 40° | 5° | 167 |
| 22983 | 24503 | 12 | 60 | 4416 | PAR36 | Narrow Spot | 12.8 | 30 | 35000 | Screw Terminals | 2.75 | 300 | 11° | 4° | |
| | 34901 | | 60 | 4416-1 | PAR36 | Warning Signal, Narrow Spot | 12.8 | 30 | 35000 | Slip-on Terminals | 2.75 | 300 | 11° | 4° | |
| 24506 | | 12 | | 4416A | PAR36 | Signal, Amber | 12.8 | 30 | 26000 | Screw Terminals | 2.75 | 300 | 11° | 4° | |
| 24513 | | 12 | | 4416R | PAR36 | Signal, Red | 12.8 | 30 | 4000 | Screw Terminals | 2.75 | 300 | 11° | 4° | |
| 24531 | 24525 | 12 | 24 | 4419 | PAR46 | Tractor | 12.8 | 35 | 1600 | Screw Terminals | 3.75 | 300 | Trapezoidal | | 4 |
| 24539 | | 12 | | 4421 | PAR46 | Truck | 13.0 | 100 | 23000 | Slip-on Terminals | 3.75 | 300 | 50° | 7° | 109,167 |
| 24542 | | 12 | | 4422 | PAR36 | Tractor | 12.8 | 35 | 600 | Screw Terminals | 2.75 | 300 | 75° Cone | | 4 |
| 24572 | | 12 | | 4434A | PAR46 | Bus, Red Lens | 12.8 | 40 | 1000 | Screw Terminals | 3.75 | 100 | 55° | 25° | |
| 24577 | 24576 | 12 | 24 | 4435 | PAR46 | Pin Spotlight | 12.8 | 30 | 75000 | Screw Terminals | 3.75 | 100 | 5° | 5° | 167 |
| 24582 | | 12 | | 4436 | PAR46 | Signal | 12.8 | 35 | 60000 | Screw Terminals | 3.75 | 300 | 10° | 4° | |
| 39932 | 39933 | 12 | 60 | 4440X | PAR36 | Tractor | 12.8/12.8 | 40/40 | 6000/4500 | 3 Contact Lugs | 3.00 | 320/320 | 40°/33° | 7°/9° | 4 |
| 39748 | | 12 | | 4440X-1 | PAR36 | Tractor | 12.8/12.8 | 40/40 | 6000/4500 | 3 Slip-on Terminals | 2.75 | 320/320 | 40°/33° | 7°/9° | 4 |
| 37046 | 37047 | 12 | 60 | 4446 | PAR36 | Emergency Building Light | 12.8 | 25 | 400 | Screw Terminals | 2.75 | 300 | 80° | 80° | |
| 40176 | | 12 | | 4460X | PAR36 | Tractor | 12.8/12.8 | 40/40 | 0 | 3 Screw Terminals | 2.75 | 320/320 | 22° | 13° | 4 |
| 24592 | | 12 | | 4461 | PAR36 | Tractor | 12.8 | 60 | 6000 | Screw Terminals | 2.7500 cm | 300 | Trapezoidal | | 4 |
| 24596 | | 12 | | 4466 | PAR36 | Tractor | 12.8 | 60 | 1000 | Screw Terminals | 2.75 | 300 | 80° | 30° | 4 |
| 24613 | | 12 | | 4478 | PAR46 | CIM | 13.0 | 60 | 1600 | 2 Contact Lugs | 4.00 | 800 | 56° | 32° | 4 |
| 24627 | | 12 | | 4502 | PAR36 | Headlamp Military | 28.0 | 50 | 10000 | Screw Terminals | 2.75 | 400 | 40° | 7° | |
| 24640 | 24638 | 12 | 60 | 4505 | PAR36 | Aircraft Navigation | 28.0 | 50 | 45000 | Screw Terminals | 2.75 | 400 | 11° | 5° | |
| 24650 | 24649 | 12 | 60 | 4509 | PAR36 | Aircraft Landing | 13.0 | 100 | 110000 | Screw Terminals | 2.75 | 25 | 12° | 6° | 167 |
| 41503 | | 12 | | 4509X | PAR36 | Marine Spotlight | 13.0 | 100 | 110000 | Screw Terminals | 2.75 | 25 | 12° | 6° | 167 |
| 11524 | | 12 | | 4509Y | PAR36 | Emergency Vehicle | 13.0 | 100 | | Screw Terminals | 2.75 | 25 | 12° | 6° | |
| 24654 | 24653 | 12 | 60 | 4510 | PAR36 | Tractor | 6.4 | 25 | 800 | Screw Terminals | 2.75 | 300 | 80° | 20° | |
| 24663 | 24661 | 12 | 60 | 4511 | PAR36 | Tractor | 6.2 | 30 | 2300 | Screw Terminals | 2.75 | 300 | Trapezoidal | | 23 |
| 24673 | 24671 | 12 | 60 | 4515 | PAR36 | Pin Spot | 6.4 | 30 | 55000 | Screw Terminals | 2.75 | 100 | 5° | 5° | 167 |
| 24678 | | 12 | | 4516 | PAR36 | Narrow Spot | 6.2 | 30 | 45000 | Screw Terminals | 2.75 | 300 | 9° | 4° | |

For the most up-to-date product information, see www.gelighting.com. All footnotes, warning and caution notices found at the end of this section (page 8-34).

Miniature, Sealed Beam and Automotive Lamps

Sealed Beam and Automotive Lamps (continued)

| Product Code | Quantity | | GE Lamp No. | Bulb | Applications | Volts | Watts | MBCP | Base | MOL (in) | Rated Life (hrs) | Spread to 10% MBCP | | Footnotes, Warning and Caution Notices |
|--------------|----------|------|-------------|-------|--------------------------|-----------|----------|---------------|-------------------|----------|------------------|--------------------|------------|--|
| | Unit | Bulk | | | | | | | | | | Horizontal | Vertical | |
| 24690 | | 12 | 4519 | PAR36 | Marine | 13.0 | 100 | 30000 | Screw Terminals | 2.75 | 25 | 40° | 7° | |
| 24700 | | 12 | 4522 | PAR46 | Aircraft Landing | 13.0 | 250 | 290000 | Screw Terminals | 3.13 | 25 | 12° | 10° | 92,138,167 |
| 24721 | | 12 | 4530 | PAR46 | Signal, Flashing | 26.0 | 139 | 100000 | Screw Terminals | 3.75 | 50 | 11° | 11° | |
| 24726 | | 12 | 4531 | PAR46 | Headlamp, Military | 12.5 | 40 | 30000 | Screw Terminals | 3.75 | 400 | 20° | 5° | |
| 19628 | | 12 | 4532 | PAR46 | Aircraft | 28.0/28.0 | 250/150 | 75000/14500 | Screw Terminals | 3.75 | 100/100 | 12°/16° | 19°/19° | |
| 24735 | | 12 | 4535 | PAR46 | Pin Spot | 6.4 | 30 | 95000 | Screw Terminals | 3.75 | 100 | 20° | 4° | 167 |
| 24742 | 24775 | 12 | 4537 | PAR46 | Aircraft Landing | 13.0 | 100 | 200000 | Screw Terminals | 3.13 | 25 | 11° | 6° | 167 |
| 40822 | | 12 | 4537-2 | PAR46 | Spotlamp | 13.0 | 100 | 200000 | Screw Terminals | 3.13 | 25 | 11° | 6° | |
| 39022 | | 12 | 4537X | PAR46 | Marine | 13.0 | 100 | 200000 | Screw Terminals | 3.13 | 25 | 11° | 6° | 167 |
| 24756 | | 12 | 4541 | PAR56 | Aircraft Landing | 28.0 | 450 | 470000 | Screw Terminals | 4.50 | 25 | 15° | 11° | 167,302 |
| 24764 | | 12 | 4543 | PAR56 | Marine | 12.5 | 100 | 250000 | Screw Terminals | 4.50 | 50 | 9° | 5° | |
| 24768 | | 12 | 4545 | PAR56 | Marine, Hand Lantern | 12.0 | 100 | 225000 | Screw Terminals | 4.50 | 100 | 9° | 5° | 167 |
| 24780 | 24783 | 12 | 4546 | PAR36 | Hand Lantern | 4.7 | 2 | 6300 | Screw Terminals | 2.75 | 100 | 3° | 3° | |
| 24770 | | 12 | 4546-1 | PAR36 | Hand Lantern | 4.7 | 2 | 6300 | Slip-on Terminals | 2.75 | 100 | 3° | 3° | |
| 24795 | | 12 | 4551 | PAR46 | Aircraft Taxiing | 28.0 | 250 | 75000 | Screw Terminals | 3.75 | 25 | 50° | 10° | 138 |
| 40576 | | 12 | 4552 | PAR64 | Aircraft Landing | 28.0 | 250 | 500000 | Screw Terminals | 3.75 | 25 | 7° | 8° | 138,167 |
| 24799 | | 12 | 4553 | PAR46 | Aircraft Landing | 28.0 | 250 | 300000 | Screw Terminals | 3.13 | 25 | 11° | 12° | 138,167 |
| 24802 | | 12 | 4554 | PAR46 | Aircraft Taxiing | 28.0 | 450 | 90000 | Screw Terminals | 3.13 | 25 | 50° | 16° | 302 |
| 40581 | | 12 | 4557 | PAR64 | Aircraft Landing | 28.0/28.0 | 1000/400 | 540000/100000 | 3 Screw Terminals | 3.75 | 25/100 | 25°/100° | 11°/25° | 138,302 |
| 40578 | | 12 | 4559 | PAR64 | Aircraft Landing | 28.0 | 600 | 600000 | Screw Terminals | 3.75 | 25 | 11° | 12° | 138,167 |
| 24828 | | 12 | 4570 | PAR46 | Aircraft Taxiing | 28.0 | 150 | 32000 | Screw Terminals | 3.75 | 300 | 50° | 9° | |
| 24830 | | 12 | 4571 | PAR46 | CIM Flood | 28.0 | 150 | 7000 | Screw Terminals | 3.75 | 300 | 80° | 25° | |
| 24833 | | 12 | 4572 | PAR46 | Military | 28.0 | 150 | 4500 | Screw Terminals | 3.75 | 300 | 55° | 55° | |
| 25005 | 25007 | 12 | 4578 | PAR46 | CIM Flood | 28.0 | 60 | 1600 | 2 Contact Lugs | 4.00 | 800 | 55° | 30° | |
| 25009 | | 12 | 4579 | PAR46 | CIM Headlamp | 28.0/28.0 | 80/60 | 24000/11000 | 3 Contact Lugs | 4.00 | 400/400 | 25°/7° | 25°/7° | |
| 24859 | | 12 | 4580 | PAR46 | Aircraft Landing | 28.0 | 450 | 400000 | Screw Terminals | 3.75 | 10 | 13° | 14° | 302 |
| 24862 | | 12 | 4581 | PAR46 | Aircraft Landing | 28.0 | 450 | 400000 | Screw Terminals | 3.13 | 10 | 13° | 14° | 302 |
| 24853 | | 12 | 4582 | PAR46 | Aircraft Flood | 28.0 | 450 | 20000 | Screw Terminals | 3.75 | 10 | 50° | 55° | 302 |
| 24867 | | 12 | 4587 | PAR36 | Aircraft Taxiing | 28.0 | 250 | 40000 | Screw Terminals | 2.75 | 25 h | 40° | 13° | 302 |
| 24873 | 24871 | 12 | 4589 | PAR36 | Aircraft Flood | 28.0 | 50 | 5000 | Screw Terminals | 2.75 | 400 | Trapezoidal | | |
| | 23509 | | 4589-1 | PAR36 | Aircraft Flood | 28.0 | 50 | 5000 | Slip-on Terminals | 2.75 | 400 | Trapezoidal | | |
| 24882 | | 12 | 4591 | PAR36 | Aircraft Landing | 28.0 | 100 | 90000 | Screw Terminals | 2.75 | 25 h | 12° | 6° | |
| 24887 | | 12 | 4593 | PAR36 | Aircraft Refueling | 28.0 | 50 | 1500 | Screw Terminals | 2.75 | 400 | 80° | 30° | |
| 24891 | | 12 | 4594 | PAR36 | Aircraft Navigation | 28.0 | 100 | 70000 | Screw Terminals | 2.75 | 300 | 13° | 7° | |
| 24892 | | 12 | 4595 | PAR36 | Aircraft Navigation | 13.0 | 100 | 60000 | Screw Terminals | 2.75 | 300 | 14° | 6° | |
| 24898 | | 12 | 4596 | PAR36 | Aircraft Landing | 28.0 | 250 | 150000 | Screw Terminals | 2.75 | 25 h | 11° | 12° | 302 |
| 24964 | | 12 | 4626 | PAR36 | Aircraft Taxiing | 28.0 | 150 | 25000 | Screw Terminals | 2.75 | 300 | 40° | 9° | |
| 24966 | | 12 | 4627 | PAR36 | Aircraft Flood | 28.0 | 100 | 3000 | Screw Terminals | 2.75 | 300 | 80° | 30° | |
| 33284 | | 12 | 4635 | PAR46 | Aircraft Landing | 16.5 | 450 | 325000 | Screw Terminals | 3.75 | 25 h | 14° | 15° | 302 |
| 19632 | 16407 | 12 | 4636-3 | PAR46 | Emergency Vehicle | 14.0 | 80 | 90000 | Combination | 3.75 | 200 | 9° | 7.5° | |
| 18517 | | 6 | 4651 | 165mm | Headlamp-High beam | 12.8 | 50 | SAE | 2 Contact Lugs | 4.80 | 200 | | | 4,307 |
| 18518 | | 6 | 4652 | 165mm | Headlamp-Low beam | 12.8/12.8 | 40/60 | SAE | 3 Contact Lugs | 4.80 | 200/320 | | | 4,307 |
| 39906 | 39907 | 12 | 4700 | PAR36 | Spot/ Flood | 13.0/13.0 | 100/100 | 100000/50000 | 3 Screw Terminals | 2.75 | 25/250 | 12°/17° | 7°/18° | |
| 46427 | | 12 | 4713 | PAR36 | Aircraft Logo | 28.0 | 150 | 4200 | Screw Terminals | 2.75 | 300 | 50° | 65° | |
| 44724 | | 12 | 4752 | PAR36 | CIM Flood | 28.0 | 60 | 2000 | Screw Terminals | 2.75 | 800 | 50° | 25° | |
| 24973 | | 12 | 4800 | PAR56 | Military Headlamp | 28.0/28.0 | 50/40 | SAE | 3 Contact Lugs | 5.00 | 400/400 | | | |
| 24980 | | 12 | 4811 | PAR36 | Military Headlamp | 28.0/28.0 | 110/55 | SAE | 3 Contact Lugs | 3.00 | 400/400 | | | |
| 24981 | 24982 | 12 | 4825R | PAR36 | CIM Stop/Tail, Red Lens | 28.0/28.0 | 50/18 | 200/40 | 3 Screw Terminals | 2.75 | 200/200 | | | |
| 24995 | | 12 | 4880 | PAR46 | CIM Headlamp | 28.0 | 60 | 6000 | 2 Contact Lugs | 4.00 | 800 | | | |
| 45110 | 45111 | 12 | 4912-1 | 165mm | Truck Fog | 12.8 | 50 | 14000 | Slip-on Terminals | 4.53 | 300 | 40° | 7° | 167,307 |
| | 45113 | | 4913-1 | 165mm | Tractor Flood | 12.8 | 50 | | Slip-on Terminals | 4.53 | 400 | 80° | 20° | 4,307 |
| 45116 | 16195 | 12 | 4921-1 | 165mm | Truck | 13.0 | 100 | 25000 | Slip-on Terminals | 4.53 | 300 | 40° | 7° | 109,307 |
| 11639 | | 6 | 5001 | PAR46 | Headlamp-High beam | 12.8 | 50 | | 2 Contact Lugs | 4.00 | 200 | | | 4 |
| 16152 | | 12 | 5557 | PAR64 | Aircraft Landing | 28.0/28.0 | 1000/40 | 540000/100000 | 3 Screw Terminals | 3.75 | 50/100 | 11° 25° | 15° 11° | 138,302 |
| 25114 | | 12 | 6006 | PAR56 | Headlamp-High/Low beam | 6.1/6.2 | 50/40 | SAE | 3 Contact Lugs | 5.00 | 300/500 | | | |
| 18519 | | 6 | 6014 | PAR56 | Headlamp-High/Low beam | 12.8/12.8 | 60/50 | SAE | 3 Contact Lugs | 5.00 | 320/150 | | | 4 |
| 38416 | 38607 | 12 | 6015 | PAR56 | Truck-High/Low beam | 12.8/12.8 | 50/50 | SAE | 3 Contact Lugs | 5.00 | 300/500 | | | 4 |
| 25153 | | 12 | 6045 | PAR56 | Signal | 26.0 | 170 | 230000 | Screw Terminals | 4.50 | 100 | 9° | 8° | |
| 18521 | 43867 | 6 | 6052 | 200mm | Headlamp-High/Low beam | 12.8/12.8 | 65/55 | SAE | 3 Contact Lugs | 5.44 | 150/320 | | | 4,307 |
| 69822 | 85695 | 1 | 24 | 200mm | LED Sealed Beam | 11/33 | | | 3 Contact Lugs | 5.44 | 15000 | | | |
| 40190 | 40191 | 12 | 7400 | PAR36 | Signal-rotating beacon | 12.8 | 35 | 33000 | Slip-on Terminals | 2.75 | 300 | 12° | 5° | |
| | 42385 | | 7400-1 | PAR36 | Signal-rotating beacon | 12.8 | 35 | 33000 | Screw Terminals | 2.75 | 300 | 12° | 5° | |
| 39987 | | 12 | 7414Y | PAR36 | Signal-Amber Lens | 12.8 | 18 | 1000 | Screw Terminals | 2.75 | 300 | 50° | 25° | |
| 41865 | 41866 | 12 | 7613 | PAR36 | Emergency Building Light | 6.0 | 8 | 400 | Screw Terminals | 2.75 | 50 | 30° | 20° | |
| 45101 | 45102 | 12 | 7613-1 | PAR36 | Emergency Building Light | 6.0 | 8 | 400 | Slip-on Terminals | 2.75 | 50 | 30° | 20° | |

For the most up-to-date product information, see www.gelighting.com.

All footnotes, warning and caution notices found at the end of this section (page 8-34).

Sealed Beam and Automotive Lamps (continued)

| Product Code | | Quantity | | GE Lamp No. | Bulb | Applications | Volts | Watts | MBCP | Base | MOL (in) | Rated Life (hrs) | Spread to 10% MBCP | | Footnotes, Warning and Caution Notices |
|--------------|-------|----------|------|-------------|-------|-----------------------------|-----------|-------|------------|--------------------|----------|------------------|--------------------|----------|--|
| Unit | Bulk | Unit | Bulk | | | | | | | | | | Horizontal | Vertical | |
| 11421 | 11422 | 12 | 60 | 7672-1 | PAR36 | Emergency Building Light | 6.0 | 7 | 350 | Slip-on Terminals | 2.75 | 50 | 30° | 20° | |
| 22386 | | 6 | | H4351 | 140mm | Headlamp-Low beam | 12.8 | 55 | SAE | Right Angle Lugs | 4.00 | 500 | | | 307 |
| 10211 | | 6 | | H4351LH | 140mm | Auto export only | 12.8 | 55 | | Right Angle Lugs | 4.00 | 500 | | | 307 |
| 22387 | | 6 | | H4352 | 140mm | Headlamp-High beam | 12.8 | 65 | SAE | Right Angle Lugs | 4.00 | 150 | | | 307 |
| | 18350 | | 48 | H4360 | 140mm | Tractor | 12.8 | 38 | 2000 | 2 Right Angle Lugs | 3.00 | 320 | Trapezoidal | | 307 |
| 15129 | | 12 | | H4405 | PAR36 | Very Narrow Spot | 12.8 | 30 | 66000 | Screw Terminals | 2.75 | 100 | 7° | 4° | 167,307 |
| | 17674 | | 60 | H4460X | PAR36 | Tractor | 12.8/12.8 | 40/40 | 11000/8500 | 3 Screw Terminals | 2.75 | 320/320 | 22°/22° | 10°/13° | 4,307 |
| 15133 | | 12 | | H4515 | PAR36 | Very Narrow Spot | 6.4 | 30 | 67000 | Screw Terminals | 2.75 | 100 | 5.5° | 4° | 167,307 |
| 18532 | 45027 | 6 | 576 | H4651 | 165mm | Headlamp-High beam | 12.8 | 50 | SAE | 2 Contact Lugs | 4.80 | 200 | | | 4,307 |
| 46375 | | 6 | | H4651SB | 165mm | Headlamp-High beam | 12.8 | 50 | SAE | 2 Contact Lugs | 4.80 | 200 | | | 4,307 |
| 18533 | 49810 | 6 | 576 | H4656 | 165mm | Headlamp-Low beam | 12.8/12.8 | 35/35 | SAE | 3 Contact Lugs | 4.80 | 200/320 | | | 4,307 |
| 14753 | | 6 | | H4656HO | 165mm | Headlamp-Low beam | 12.8/12.8 | 40/55 | SAE | 3 Contact Lugs | 4.80 | 200/700 | | | 4,307 |
| 45475 | | 6 | | H4656SB | 165mm | Headlamp-Low beam | 12.8/12.8 | 40/55 | SAE | 3 Contact Lugs | 4.80 | 75/200 | | | 4,307 |
| 25098 | | 6 | | H4656 NH | 165mm | Headlamp Nighthawk™ | 12.8/12.8 | 40/55 | SAE | 3 Contact Lugs | 4.80 | | | | 307 |
| 97695 | | 6 | | H4656 NHS | 165mm | Headlamp Nighthawk™ Sport | 12.8/12.8 | 40/55 | SAE | 3 Contact Lugs | 4.80 | | | | 307 |
| 18535 | 22879 | 6 | 576 | H4666 | 165mm | Headlamp-High/Low beam | 12.8/12.8 | 65/55 | SAE | 3 Contact Lugs | 4.80 | 150/320 | | | 4,166,307 |
| 28157 | | 6 | | H4666 NH | 165mm | Headlamp Nighthawk™ | 12.8/12.8 | 65/55 | SAE | 3 Contact Lugs | 4.80 | | | | 166,307 |
| 97694 | | 6 | | H4666 NHS | 165mm | Headlamp Nighthawk™ Sport | 12.8/12.8 | 65/55 | SAE | 3 Contact Lugs | 4.80 | | | | 166,307 |
| 18536 | 48533 | 6 | 480 | H4701 | 150mm | Headlamp-High beam | 12.8 | 65 | SAE | 2 Lugs | 3.40 | 150 | | | 307 |
| 18538 | 48534 | 6 | 480 | H4703 | 150mm | Headlamp-Low beam | 12.8 | 55 | SAE | 2 Lugs | 3.40 | 320 | | | 307 |
| 18522 | | 6 | | H5001 | PAR46 | Headlamp-High beam | 12.8 | 50 | SAE | 2 Contact Lugs | 4.00 | 200 | | | |
| 18523 | | 6 | | H5006 | PAR46 | Headlamp-Low beam | 12.8/12.8 | 35/35 | SAE | 3 Contact Lugs | 4.00 | 200/320 | | | 4,307 |
| 19428 | 19559 | 6 | 432 | H5024 | PAR56 | Truck-High/Low beam | 12.8/12.8 | 65/42 | SAE | 3 Contact Lugs | 5.00 | 400/2000 | | | 4,307 |
| 69821 | 85694 | 1 | 24 | | PAR56 | LED Sealed Beam | 11/33 | | | 3 Contact Lugs | 5 | 15000 | | | |
| 19411 | 19556 | 6 | 576 | H5051 | 165mm | Truck- High beam | 12.8 | 50 | SAE | 2 Contact Lugs | 4.80 | 500 | | | 4,307 |
| 19429 | 19558 | 6 | 448 | H5054 | 200mm | Truck-High/Low beam | 12.8/12.8 | 65/42 | SAE | 3 Contact Lugs | 5.44 | 400/2000 | | | 4,307 |
| 19412 | 19557 | 6 | 576 | H5062 | 165mm | Truck-High/Low beam | 12.8/12.8 | 40/55 | SAE | 3 Contact Lugs | 4.80 | 400/2000 | | | 4,307 |
| | 41453 | | 448 | H5360 | 140mm | Tractor Worklight | 12.8 | 38 | 2000 | 2 Right Angle Lugs | 3.00 | 900 | Trapezoidal | | 307 |
| 18525 | | 6 | | H6024 | PAR56 | Headlamp-High/Low beam | 12.8/12.8 | 65/35 | SAE | 3 Contact Lugs | 5.00 | 150/320 | | | 4,307 |
| 28153 | | 6 | | H6024 NH | PAR56 | Headlamp Nighthawk™ | 12.8/12.8 | 65/35 | SAE | 3 Contact Lugs | 5.00 | | | | 307 |
| 97693 | | 6 | | H6024 NHS | PAR56 | Headlamp Nighthawk™ Sport | 12.8/12.8 | 65/35 | SAE | 3 Contact Lugs | 5.00 | | | | 307 |
| 18534 | 11545 | 6 | 448 | H6054 | 200mm | Headlamp-High/Low beam | 12.8/12.8 | 65/35 | SAE | 3 Contact Lugs | 5.44 | 150/320 | | | 4,307 |
| 14752 | | 6 | | H6054HO | 200mm | Headlamp-High/Low beam | 12.8/12.8 | 65/55 | SAE | 3 Contact Lugs | 5.44 | 150/700 | | | 4,307 |
| 25097 | | 6 | | H6054 NH | 200mm | Headlamp Nighthawk™ | 12.8/12.8 | 65/55 | SAE | 3 Contact Lugs | 5.44 | | | | 307 |
| 97692 | | 6 | | H6054 NHS | 200mm | Headlamp Nighthawk™ Sport | 12.8/12.8 | 65/55 | SAE | 3 Contact Lugs | 5.44 | | | | 307 |
| 43561 | 43562 | 12 | 60 | H7550 | PAR36 | Hand Lantern | 6.0 | 8 | 25000 | Screw Terminals | 2.75 | 50 | 3° | 3° | 307 |
| | 23541 | | 60 | H7550-1 | PAR36 | Hand Lantern | 6.0 | 8 | 25000 | Slip-on Terminals | 2.75 | 50 | 3° | 3° | 307 |
| 43564 | 43565 | 12 | 60 | H7551 | PAR36 | Emergency Building Lighting | 6.0 | 8 | 550 | Screw Terminals | 2.75 | 50 | 30° | 20° | 307 |
| 43567 | | 12 | | H7552 | PAR36 | Emergency Building Lighting | 6.0 | 10 | 650 | Screw Terminals | 2.75 | 50 | 30° | 20° | 307 |
| 43570 | 43571 | 12 | 60 | H7553 | PAR36 | Emergency Building Lighting | 6.0 | 12 | 850 | Screw Terminals | 2.75 | 50 | 30° | 20° | 307 |
| | 43574 | | 60 | H7554 | PAR36 | Emergency Building Lighting | 6.0 | 20 | 1400 | Screw Terminals | 2.75 | 50 | 30° | 20° | 307 |
| 44642 | 44643 | 12 | 60 | H7555 | PAR36 | Emergency Building Lighting | 12.0 | 8 | 550 | Screw Terminals | 2.75 | 50 | 30° | 20° | 307 |
| 44924 | 44925 | 12 | 60 | H7556 | PAR36 | Emergency Building Lighting | 6.0 | 6 | 400 | Screw Terminals | 2.75 | 50 | 30° | 20° | 307 |
| 12720 | 12721 | 12 | 60 | H7557 | PAR36 | Emergency Building Lighting | 12.0 | 12 | 850 | Screw Terminals | 2.75 | 50 | 30° | 20° | 307 |
| 42841 | 42842 | 12 | 60 | H7600 | PAR36 | Signal, Rotating Beacon | 12.8 | 38 | 60000 | Screw Terminals | 2.75 | 300 | 9° | 4.5° | 307 |
| 43576 | 43577 | 12 | 60 | H7604 | PAR36 | Very Narrow Spot | 12.8 | 50 | 100000 | Screw Terminals | 2.75 | 100 | 7° | 5° | 307 |
| 14616 | 48580 | 6 | 60 | H7606 | PAR36 | Tractor Flood | 12.8 | 50 | 1000 | Screw Terminals | 2.75 | 400 | 80° | 30° | 4,307 |
| | 17672 | | 60 | H7607 | PAR36 | Tractor Flood | 12.8 | 65 | | Screw Terminals | 2.75 | 600 | Non-symmetrical | | 4,307 |
| 14617 | 43583 | 6 | 24 | H7609 | PAR46 | Tractor Flood | 12.8 | 50 | 2200 | Screw Terminals | 3.75 | 400 | 80° | 20° | 4,307 |
| 14618 | 43586 | 6 | 60 | H7610 | PAR36 | Tractor | 12.8 | 50 | 5200 | Screw Terminals | 2.75 | 400 | Trapezoidal | | 4,307 |
| 49695 | | 12 | | H7612 | PAR46 | Truck Fog | 12.8 | 38 | 15000 | Screw Terminals | 3.75 | 450 | 40° | 7° | 307 |
| 49731 | 49732 | 12 | 60 | H7614 | PAR36 | Wide Flood | 12.8 | 50 | 2000 | Screw Terminals | 2.75 | 100 | 70° | 30° | 307 |
| 42838 | 42839 | 12 | 60 | H7616 | PAR36 | Very Narrow Spot | 12.8 | 38 | 70000 | Screw Terminals | 2.75 | 300 | 7° | 4° | 307 |
| 14619 | 43589 | 6 | 24 | H7619 | PAR46 | Tractor | 12.8 | 50 | 6000 | Screw Terminals | 3.75 | 400 | Trapezoidal | | 4,307 |
| | 45058 | | 24 | H7621-1 | PAR46 | Truck | 12.8 | 50 | | Slip-on Terminals | 3.75 | 200 | 50° | 7° | 4,109,307 |
| 43591 | 43592 | 12 | 24 | H7635 | PAR46 | Very Narrow Spot | 12.8 | 50 | 160000 | Screw Terminals | 3.75 | 100 | 6.5° | 4° | 307 |
| | 18022 | | 24 | H7635X | PAR46 | Spot, Shielded Filament | 12.8 | 50 | 160000 | Screw Terminals | 3.75 | 100 | 6.5° | 4° | 167,307 |
| | 13426 | | 16 | H7921-1 | 165mm | Truck Special Service | 12.8 | 50 | | Slip-on Terminals | 4.53 | 200 | 35° | 5° | 4,109,307 |
| 47460 | 14892 | 6 | 16 | H7935-1 | 165mm | Narrow Spot | 12.8 | 50 | 175000 | Slip-on Terminals | 4.53 | 100 | 6.5° | 3.5° | 307 |
| 15767 | 15763 | 12 | 48 | H9405 | 150mm | Spotlamp | 12.8 | 50 | 100000 | 2 Right Angle Lugs | 3.00 | 100 | 7° | 4° | 307 |
| 15769 | 15768 | 12 | 48 | H9406 | 150mm | Tractor Flood | 12.8 | 50 | 1350 | 2 Right Angle Lugs | 3.00 | 400 | 70° | 30° | 4,307 |
| 15771 | 15770 | 12 | 48 | H9411 | 150mm | Tractor Trapezoidal Beam | 12.8 | 50 | 5400 | 2 Right Angle Lugs | 3.00 | 400 | Trapezoidal | | 4,307 |
| | 15772 | | 48 | H9414 | 150mm | Tractor Flood | 12.8 | 50 | | 2 Right Angle Lugs | 3.00 | 400 | 45° | 20° | 4,307 |

For the most up-to-date product information, see www.gelighting.com. All footnotes, warning and caution notices found at the end of this section (page 8-34).

Miniature, Sealed Beam and Automotive Lamps

Sealed Beam and Automotive Lamps (continued)

| Product Code | | Quantity | | GE Lamp No. | Bulb | Applications | Volts | Watts | MBCP | Base | MOL (in) | Rated Life (hrs) | Spread to 10% MBCP | | Footnotes, Warning and Caution Notices |
|--------------|-------|----------|------|-------------|-------|------------------------|-------|-------|--------|--------------------|----------|------------------|--------------------|----------|--|
| Unit | Bulk | Unit | Bulk | | | | | | | | | | Horizontal | Vertical | |
| 16484 | 16483 | 12 | 48 | H9415 | 150mm | Truck Fog | 12.8 | 38 | 12000 | 2 Right Angle Lugs | 3.00 | 200 | 45° | 5° | 4,307 |
| 17988 | | 12 | | H9415A | 150mm | Truck Fog, Amber | 12.8 | 38 | | 2 Right Angle Lugs | 3.00 | 200 | 45° | 5° | 4,307 |
| 16976 | 16978 | 12 | 48 | H9420 | 150mm | Truck, Driving | 12.8 | 50 | 47000 | 2 Right Angle Lugs | 3.00 | 200 | 15° | 5° | 4,307 |
| 16482 | 16204 | 12 | 48 | H9421 | 150mm | Truck, Special Service | 12.8 | 50 | 4000 | 2 Right Angle Lugs | 3.00 | 200 | 45° | 8° | 4,109,307 |
| 22109 | | 12 | | Q4509 | PAR36 | Aircraft Landing | 13.0 | 100 | 140000 | Screw Terminals | 2.75 | 100 | 7° | 7° | 301 |
| 37706 | | 12 | | Q4554 | PAR46 | Aircraft Taxiing | 28.0 | 450 | 65000 | Screw Terminals | 2.63 | 100 | 50° | 11° | 301 |
| 40579 | | 12 | | Q4559 | PAR64 | Aircraft Landing | 28.0 | 600 | 600000 | Screw Terminals | 3.75 | 100 | 12° | 8° | 138,301 |
| 42552 | | 12 | | Q4559X | PAR64 | Aircraft Landing | 28.0 | 600 | 765000 | Screw Terminals | 3.75 | 100 | 11° | 7.5° | 139,301 |
| 41097 | | 12 | | Q4566 | PAR46 | Aircraft Logo | 28.0 | 450 | 150000 | Screw Terminals | 3.32 | 1000 | 16° | 12° | 301 |
| 37372 | | 12 | | Q4597 | PAR46 | Aircraft Flood | 28.0 | 450 | 16000 | Screw Terminals | 3.32 | 1000 | 60° | 35° | 301 |
| 34537 | | 12 | | Q4631 | PAR36 | Aircraft Landing | 13.0 | 250 | 80000 | Screw Terminals | 2.75 | 500 | 13° | 12° | 301 |
| 39112 | | 12 | | Q4632 | PAR36 | Aircraft Logo | 13.0 | 250 | 75000 | Screw Terminals | 2.75 | 500 | 14° | 12° | 301 |
| 36271 | | 12 | | Q4681 | PAR46 | Aircraft Landing | 28.0 | 450 | 310000 | Screw Terminals | 2.63 | 50 | 15° | 9° | 301 |
| 41452 | | 12 | | Q5551 | PAR46 | Aircraft Taxiing | 28.0 | 250 | 60000 | Screw Terminals | 3.32 | 100 | 48° | 12° | 301 |
| 16784 | | 12 | | Q5559 | PAR64 | Aircraft Landing | 28.0 | 600 | 650000 | Screw Terminals | 3.75 | 200 | 11° | 7.5° | 138,301 |
| 29130 | 22227 | 12 | 60 | Q7558 | PAR36 | Landscape Lighting | 12.0 | 18 | 365 | Screw Terminals | 2.75 | 5000 | 55° | 45° | 301 |
| 28113 | | 12 | | Q7559 | PAR36 | Landscape Lighting | 12.0 | 18 | 120 | Screw Terminals | 2.75 | 5000 | 70° | 70° | 301 |
| 28111 | | 12 | | Q7560 | PAR36 | Landscape Lighting | 12.0 | 18 | 1900 | Screw Terminals | 2.75 | 5000 | 24° | 23° | 301 |
| 28874 | | 12 | | Q7561 | PAR36 | Landscape Lighting | 12.0 | 18 | 11000 | Screw Terminals | 2.75 | 5000 | 9° | 8° | 301 |

Footnotes

- 1 Special ballast required per ECE R99.
- 2 B3 life, not average life.
- 4 Life at 14 volts.
- 10 Life at 5 volts.
- 11 Filament vertical.
- 12 Average overall length.
- 13 Filament supported.
- 14 This lamp may not be suitable for some uses because of its excessive wattage requirements for the bulb size.
- 15 This lamp may not be suitable for some uses because of its limited mechanical strength.
- 17 Filament shielded.
- 23 Life at 7 volts.
- 32 Designed and rated for operation in supplementary cathode preheat circuits.
- 33 Connections of major and minor filament to base are reversed from those for automotive lamps with Double Contact Index bases. Burn base down to horizontal.
- 44 Life at 6.6 volts.
- 78 ANSI specifies .38" LCL and .63" MOL.
- 79 Life shown is AC voltage only. DC life will be approx. 50% of AC.
- 80 Light output is approx. end foot candles, not spherical MSCP.
- 92 Filament segments parallel.
- 109 Special fixture required for highway use.
- 110 To be used with variable load flasher in applications where bulb outage indication is not required, or with an appropriate fixed load flasher. Flash rate may be altered if used with incorrect fixed load flasher.
- 113 This is a flange seal wire terminal lamp. When unbased lamps such as these are handled and wired into a device, damage can be kept to a minimum by allowing sufficient clearance so that no physical strain or excessive heat is placed on the exhaust tube, exhaust tube tip, or glass seal; by taking care in mounting lamp in equipment so that any material touching the glass is compatible in thermal expansion; and by avoiding excessive tensile strain on the lead wires.
- 116 Life tests are performed on DC voltage only.
- 121 To minimize the possible adverse effects on lamp life due to excessive wattage in relationship to bulb size: Burn Base Down to Base 45° Above Horizontal. Regardless of burning position, this excessive wattage will abnormally decrease light output during lamp life.
- 122 This is a wire terminal lamp. The glass-to-metal seal (and tip where applicable) are susceptible to damage by thermal shock, and soldering or welding within 1/8" of the glass should be avoided as glass cracks and air leaks may develop. Solderability may be adversely affected by storage for an extended period in excess of six months or by storage in a high-humidity environment. Lamps with tinned leads would be subject to these storage restrictions. Nickel-plated leads are not recommended for soldering; however, their ability to be welded is not affected by these storage restrictions.
- 124 .028" metal pins spaced 44mm (.157") apart. GE's two-pin lamps might not be compatible with all G-4 sockets since many sockets do not provide clearance for the exhaust tip.
- 128 Output is minimum 1/4" spot at .100" from bulb top.
- 132 Paint may peel, craze or discolor when subjected to excessive moisture, heat, and freezing in housings with plugged drain holes or which otherwise leak or trap moisture.
- 138 Life Test Conditions: Cycled 5 minutes on, 5 off.
- 139 Life Test Conditions: Cycled 20 minutes on, 20 off.
- 147 Differs from ANSI.
- 160 Filament will generate specified MSCP in a non-shielded bulb.
- 162 Life based on three hours of burning per start. MSCP at 100 hours. Designed and rated for operation in supplementary cathode preheat circuits. Use these lamps with auxiliary equipment specially designed to produce proper electrical values according to established specification. For total load, add auxiliary watts to lamp watts.
- 166 Contact Lugs are angled.
- 167 Filament shielded.

Warning and Caution Notices

301

⚠ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken

⚠ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

302

⚠ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Unexpected lamp rupture may cause injury, fire, or property damage

- Avoid contact with glass during operation
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product

304

⚠ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Lamp emits UV radiation which may cause eye/skin injury

- Avoid exposure of eyes and skin to unshielded lamp

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

⚠ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

For Best Performance

- Limit seal temperature to 350°C
- Maintain 250°C minimum bulb wall temperature
- Remove fingerprints from bulb with grease-free solvent
- Operate at design voltage

305

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Do not use excessive force when installing lamp

306

⚠ WARNING

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

⚠ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

307

⚠ WARNING

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

308

⚠ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

⚠ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

For Best Performance

- Limit seal temperature to 350°C
- Maintain 250°C minimum bulb wall temperature
- Remove fingerprints from bulb with grease-free solvent
- Operate at design voltage

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
FluorescentLED Lamps,
Tubes and Modules

Stage and Studio

Miniature, Sealed
Beam and Automotive

Projection

Miniature, Sealed Beam and Automotive Lamps

Warning and Caution Notices (continued)

309

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

310

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

Risk of fire

- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed
- Turn power off before installing lamp

Lamp may rupture if used on wrong ballast

- Use only properly rated ballast

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Remove and install by grasping only plastic portion of the lamp
- Do not use excessive force when installing lamp

INSTRUCTIONS

FDA Warning

WARNING – This lamp can cause serious skin burn and eye inflammation from short-wave ultraviolet radiation if outer envelope of the lamp is broken or punctured and the arc tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available. 21 CFR 1040.30.

Hg – LAMP CONTAINS MERCURY

Manage in Accord with Disposal Laws

See: www.lamprecycle.org or 1-800-435-4448

Lamp should be installed by an automotive service specialist.

Projection Lamps

Lamp Locator 9-2

Base Identification 9-2

Light Center Length..... 9-2

Filament Identification 9-3

Introduction 9-3

Warning and Caution Notices Information 9-3

Important Notice 9-3

General Information..... 9-4

GE Multi-Mirror® Quartzline® Projection Lamps 9-4

Section Headings 9-5

Quartzline® Multi-Mirror® Reflectors

MR-16 Faceted Dichroic Reflector, 2" Diameter (51mm)..... 9-6

Quartzline® Single-Ended

Applications: Projection, Microfilm, Studio, Etc. 9-6

Quartzline® Single-Ended – Amp Rated 9-6

Quartzline® Double-Ended Projection..... 9-6

Incandescent Projection

Double Contact Bayonet Base, ANSI Base Designation: BA15D..... 9-6

Photoflood

Reflector 9-6

Footnotes 9-7

Warning and Caution Notices 9-7

ANSI-Coded GE Projection Lamps Index 9-7

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

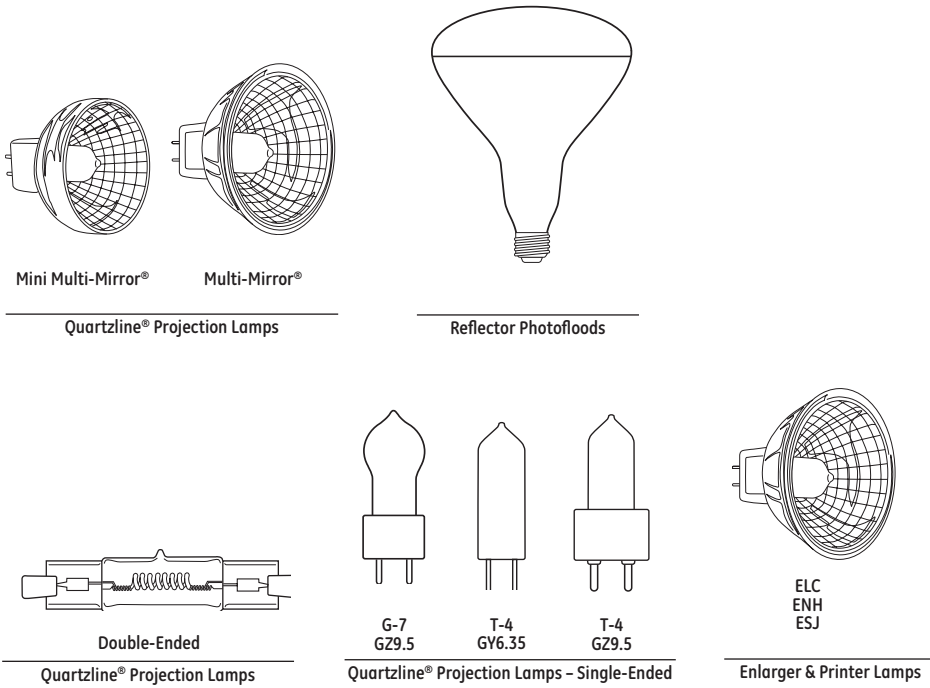
Stage and Studio

Miniature, Sealed Beams and Automotive

Projection

Projection Lamps

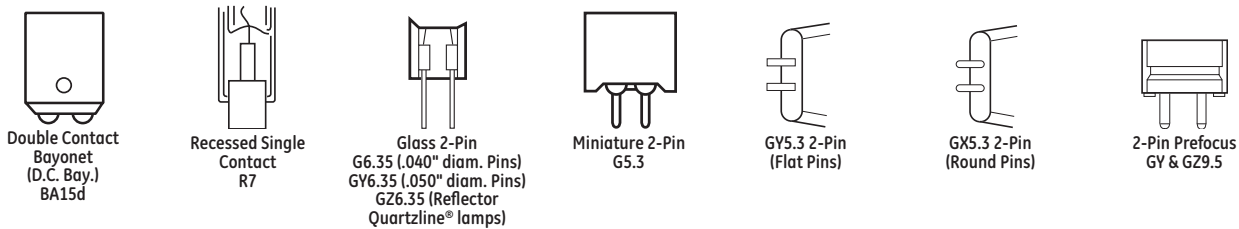
Lamp Locator



Base Identification

Typical bases used on Projection lamps in this catalog are shown below along with their names and common abbreviations. Where the base is an ANSI standard type, the ANSI reference code (which is the same as the IEC base code) is also shown. ANSI reference codes

conform to American National Standard C81.10, C81.30, C81.50 specifications for electric lamp bases and lampholders. Illustrations are not to scale.



Light Center Length (LCL)

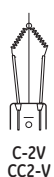
Light center length is the distance from the center of the light source to the point indicated below for the lamp base used. It is a measurement to which the lamp is designed and is subject to the manufacturer's tolerances.

| Base Type | LCL Reference |
|-----------------|------------------------|
| D.C. Bayonet | Top of base pins |
| 2-Pin Prefocus | Bottom of base ceramic |
| Miniature 2-Pin | Bottom of base pins |
| Glass 2-Pin | Bottom of base pins |

Filament Identification

The configuration of the filament in all tungsten filament lamps (including Quartzline®) is identified by a prefix letter and a suffix number. The prefix letter indicates whether the filament wire is a

single coil (C) or a coiled coil (CC). The suffix number indicates the form or arrangement of the filament coil or coils on its support structure. Illustrations are not to scale.



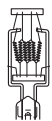
C-2V
CC2-V



C-9



2C-8
2CC-8



C-13



C-13D



C-6 Oval



C-6
CC-6



C-8
CC-8

Introduction

General Electric Projection Lamps are designed for a wide variety of applications...and now extending well beyond the original picture-taking and audio-visual projection uses into such fields as: fiber optical systems, graphic arts, video camera lights, airport runway markers, micrographics, photo printers and enlargers, medical/scientific instruments and many others.

The information contained in this section is designed to provide end-users, equipment manufacturers and lamp distributors and dealers with:

- Essential technical data on GE Projection Lamps (Quartzline®, Incandescent and Photoflood)
- Suggested substitutes for improved performance or discontinued lamps

The majority of Projection Lamps described herein are characterized by:

- Precisely manufactured, tailored filaments maximizing source brightness, optimum performance in precision optical devices

- High light-generating efficacy (lumens per watt)...to help minimize power requirements and heat generation
- Prefocus type bases, or rim-reference mounting for Multi-Mirror® lamps...to position the filament accurately in relation to the associated optics
- Design life Rated Life (per ANSI Standard)
- Lamps with internal or external reflectors (as in Multi-Mirror® and some 4-pin projection lamps) permitting high-efficiency illumination system designs with a minimum of additional optical control elements

Manufacturers and designers of equipment requiring lamps should select lamps of established design whenever possible for maximum economy, as well as for ease of replacement by their customers through regular trade channels. General Electric offers application engineering assistance to all customers for applying lamps in product design. Contact your local GE Lamp Representative for additional information or assistance.

Warning and Caution Notices Information

As with any product, certain precautions should be observed in the handling and use of GE Projection Lamps to provide optimum

performance and safety. These are given in the Caution Notices that are printed on page 9-7.

Important Notice

This catalog contains accumulated data to March 2008. Additional information is constantly being uncovered through research and testing, which may modify the data given herein. This is particularly true of newer lamps. For the latest lamp design data and information, contact your General Electric Lamp Representative.

The data and suggested applications contained in this catalog, as well as any additional information our representative may be able to furnish, are for general information only and are not intended and should not be taken as representations or warranties as to the suitability of a lamp for any particular application or use in any particular equipment, nor are our representatives authorized to make any such representations or give any such warranties.

Applications and conditions of use are many and varied, and beyond our control. We cannot possibly have the same degree of knowledge that the purchaser has with respect to the design of his equipment and the conditions of its use. Therefore, it is up to the purchaser to make its own determination as to the suitability of a lamp for his intended application or use and to assume the responsibility for that determination.

General Electric desires to supply the best possible products at all times. For this reason, General Electric reserves the right to make changes in its products when it believes such changes will improve its products.

Projection Lamps

General Information

General Electric Projection Lamps are briefly described in the ANSI lamp index (page 9-7). More extensive descriptive and performance data are found in the lamp tables, which are organized as "families" of lamps with one or more features in common – such

as Multi-Mirror® Quartzline®, Single-Ended Quartzline®, 4-Pin Based Incandescent, Photoflood, etc. Within each table, lamps are listed alphabetically by GE Lamp Code.

GE Multi-Mirror® Quartzline® Projection Lamps

Invented By GE For Optimized Projection System Performance, the Multi-Mirror® and its new companion, the Mini Multi-Mirror®, are reflector halogen Quartzline® lamps with innovative GE features that

result in better system efficiency, screen uniformity, lamp-to-lamp consistency and relamping convenience.

| Feature | Benefit | Applications |
|---|--|---|
| <ul style="list-style-type: none"> Dichroic reflector | <ul style="list-style-type: none"> Cool light beam Efficient light reflection | <ul style="list-style-type: none"> Slide Projection Front/Rear Screen Projection |
| <ul style="list-style-type: none"> Precise rim reference Accurate snap-in alignment | <ul style="list-style-type: none"> Quick lamp installation | <ul style="list-style-type: none"> Microfilm Overhead Projection |
| <ul style="list-style-type: none"> Faceted reflector | <ul style="list-style-type: none"> Efficient beam for brighter image Uniform screen image Precision beam control | <ul style="list-style-type: none"> 16mm Movie 8mm Movie Film Strip |
| <ul style="list-style-type: none"> Halogen Quartzline® lamp | <ul style="list-style-type: none"> Whiter and brighter light No bulb blackening/blistering Constant light output through life Stable color temperature | <ul style="list-style-type: none"> Enlargers/Printers Fiber Optics Medical/Scientific Instruments Video Camera Lights Airport Runways Display |

Each GE Multi-Mirror® lamp type is optically tailored to its application. First, the appropriate type of multi-faceted reflector is determined. Then a filament tube developed, using advanced

Quartzline® technology. Finally, the two are combined, using sophisticated, computerized precision-assembly techniques. The result – consistently high performance...lamp after lamp after lamp.

Headings in this catalog section

The following terms and descriptions can help you when checking Projection lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families, lamps are listed by ANSI code.

Bulb Shape:

Projection Lamp bulb designations use a combination of letters and numerals to indicate bulb shape and maximum diameter in eighths of an inch. For example: a "T12" bulb is Tubular-shaped and twelve-eighths of an inch, or 1-1/2" in diameter. Illustrations of typical Projector Lamps and their respective bulb designations are shown in the tables of lamp families, pages 9-2.

Base:

Projection Lamp base illustrations appear on page 9-2, along with their common trade names and abbreviations, plus their letter-number ANSI/IEC designations where applicable.

Watts (or Amps):

This column shows the rated power consumption (watts) of the lamp at its design voltage. A few lamps, in Table 5, are rated in terms of current (amperes) drawn initially at their rated voltage. The watts shown for the lamps in Table 5 are the approximate initial values for operation at rated amperes.

Order Code:

It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

Description:

This is a 3-letter or letter-number code uniquely identifying the lamp for ordering purposes. In some instances, lamps with 3-letter (ANSI) codes are offered in more than one design voltage, in which case the voltage required should also be specified when ordering.

Volts:

The voltage shown is the design voltage of the lamp, on which the life and wattage ratings are based. Lamps are available only in the design voltages shown. When ordering lamps listed for more than one voltage, be sure to specify the voltage required (supply voltage variation can significantly affect lamp life).

Case Quantity:

Number of product units packed in a case.

Filament Design:

Typical filament configurations for Projection Lamps are shown on page 9-3, along with an explanation of the filament designation system.

Maximum Overall Length (MOL):

This dimension includes the lamp bulb and all rigid parts of the base. Since the listed lengths include maximum tolerances, actual lamps are generally slightly shorter.

Light Center Length (LCL):

This dimension defines the location of the filament in relation to the base. It is measured from the geometric center of the filament to a specified point on, or plane through, the base. Light Center Length is subject to manufacturing tolerances. Reference points/planes from which LCL is measured are tabulated on page 9-2 for the various styles of lamp bases.

Rated Life:

Life ratings of Projection Lamps are based on closely controlled laboratory tests of lamps, at their rated voltage, over a long period of production time. Rated Life is not necessarily the same as service life; mechanical shock and vibration, voltage fluctuation, temperature and other environmental factors may result in shorter service life. As with any median value, some individual lamps will operate longer and some will operate shorter, than their Rated Life (supply voltage variation can significantly affect lamp life).

Initial Lumens:

The value shown is based on spherical photometry, at rated voltage, of lamps that have been seasoned for approximately 15% (or minimum of 2 hours) or more of their rated average life.

Color Temperature:

The radiation within the visible spectrum from tungsten filament lamps is similar in spectral distribution to that from a "blackbody" at specific color temperatures. The Color Temperatures shown are approximate initial values in degrees Kelvin (K) for lamps operated at rated voltage.

CBCP (Center Beam Candlepower):

For reflector type lamps, Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam.

Operating Position:

For good performance, lamps must be used within specified limitations on operating position. The following abbreviations are used in the lamp tables to indicate these limits:
BD = Base Down. Operate only vertical, base down.
HD = Base Down to Horizontal. Do not operate base above horizontal.
H22 = Operate base down to 22° base up.
U = Operate in any position.

Warning and Caution/Footnote:

See page 9-7 for explanation.

Additional Information:

Typical application and/or other important information.

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Initial Lumens | Color Temp K | CBCP | Burn Position | Additional Information | Warning and Caution/Footnote | Typical Working Distance | Source Size (W x H) |
|------------|------|-------|------------|-------------|-------|----------|-----------------|----------|----------|------------------|----------------|--------------|------|---------------|------------------------|------------------------------|--------------------------|---------------------|
|------------|------|-------|------------|-------------|-------|----------|-----------------|----------|----------|------------------|----------------|--------------|------|---------------|------------------------|------------------------------|--------------------------|---------------------|

Quartzline® Multi-Mirror® Reflectors

MR-11 Faceted Dichroic Reflector, 1-3/8" Diameter (35mm), Table 1.

| | | | | | | | | | | | | | | | | | | |
|------|-----------|----|-------|-----|----|----|------|------|--|------|--|------|--|----|-----------|---|--|--|
| MR11 | G24 2-Pin | 28 | 30894 | FLS | 12 | 10 | CC-6 | 1.38 | | 1000 | | 3000 | | HD | Microfilm | A | | |
|------|-----------|----|-------|-----|----|----|------|------|--|------|--|------|--|----|-----------|---|--|--|



Projection Lamps

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Lumens Initial | Color Temp K | CBCP | Burn Position | Additional Information | Warning and Caution/ Footnote | Typical Working Distance | Source Size (W x H) |
|--|----------------|-------|------------|-------------|-------|----------|-----------------|----------|----------|------------------|----------------|--------------|-------|---------------------|--------------------------------|-------------------------------|--------------------------|---------------------|
| Quartzline® Multi-Mirror® Reflectors | | | | | | | | | | | | | | | | | | |
| MR-16 Faceted Dichroic Reflector, 2" Diameter (51mm) | | | | | | | | | | | | | | | | | | |
| MR16 | GX5.3 2-Pin | 150 | 43537 | DDL | 20 | 20 | C-6 | 1.75 | | 500 | | 3150 | | HD | Microfilm | A | 7.75 | |
| | | 85 | 43950 | DED | 13.8 | 20 | C-6 | 1.75 | | 1000 | | 3150 | | HD | Microfilm | A | 6.50 | |
| | GX5.3 2-Pin | 150 | 35200 | EKE | 21 | 20 | CC-6 | 1.75 | | 250 | | 3250 | | HD | 8mm Projection, Fiber Optics | A | 1.75 | |
| | | 250 | 37462 | ELC | 24 | 20 | CC-6 | 1.75 | | 50 | | 3400 | | HD | Fiber Optics, Color Printer | A | 1.25 | |
| | GX5.3 2-Pin | 250 | 15377 | ELC/500 | 24 | 20 | CC-6 | 1.75 | | 500 | | 3350 | | HD | Fiber Optics, Disco | A | 1.25 | |
| | | 50 | 25475 | ENL | 12 | 20 | C-6 | 1.75 | | 4000 | | 3050 | | HD | Fiber Optics, Display Lighting | A | 1.50 | |
| | GY5.3 2-Pin | 360 | 41705 | ENX | 82 | 20 | CC-8 | 1.75 | | 75 | | 3300 | | HD | Overhead Projection | A | 11.75 | |
| | | 360 | 19475 | ENX-5 | 86 | 20 | CC-8 | 1.75 | | 75 | | 3300 | | HD | Overhead Projection | A | | |
| | GX5.3 2-Pin | 42 | 41729 | EPT | 10.8 | 20 | C-6 | 1.75 | | | 10000 | | 2900 | HD | Fiber Optics | A | 1.50 | |
| | GX5.3 2-Pin | 50 | 14887 | FML | 13.8 | 20 | CC-6 | 1.75 | | 1000 | | 3150 | | HD | Microfilm | A | 8.44 | |
| GY5.3 2-Pin | 410 | 21613 | FXL | 82 | 20 | CC-8 | 1.75 | | 38 | | 3300 | | HD | Overhead Projection | A | 11.75 | | |
| Quartzline® Single-Ended | | | | | | | | | | | | | | | | | | |
| Applications: Projection, Microfilm, Studio, Etc. | | | | | | | | | | | | | | | | | | |
| G7 | G29.5 2-Pin Pf | 650 | 33250 | DYR | 240 | 24 | 2CC-8 | 2.50 | 1.44 | 50 | 16500 | 3200 | | U | | A | | .45 x .45 |
| | | 600 | 32955 | DYS/DYV/BHC | 120 | 24 | CC-6 | 2.50 | 1.44 | 75 | 17000 | 3200 | | HD | | A | | .50 x .25 |
| T3.5 | G5.3 2-Pin | 30 | 37346 | DZA | 10.8 | 24 | C-6 | 2.00 | 1.06 | 400 | 530 | 3100 | | HD | | A | | .15 x .05 |
| T4 | G6.35 2-Pin | 250 | 14874 | EHJ | 24 | 100 | C-6 Oval | 2.25 | 1.31 | 50 | 8000 | 3400 | | HD | | A | | .30 x .15 |
| T3.5 | G5.3 2-Pin | 360 | 12696 | EVB | 82 | 24 | CC-8 | 2.25 | 1.25 | 75 | 10000 | 3300 | | HD | | A | | |
| T3 | GY6.35 2-Pin | 100 | 14876 | FCR | 12 | 100 | C-6 Oval | 1.75 | 1.18 | 50 | 2800 | 3300 | | HD | | A | | |
| T4 | G6.35 2-Pin | 150 | 13598 | FCS | 24 | 100 | C-6 Oval | 2.00 | 1.18 | 50 | 4500 | 3300 | | HD | | A | | |
| T3 | G29.5 2-Pin Pf | 100 | 35321 | FDT | 12 | 24 | C-6 Oval | 2.12 | 1.06 | 50 | 2900 | 3300 | | HD | | A | | |
| T4 | G6.35 2-Pin | 150 | 36878 | FDV | 24 | 24 | C-6 Oval | 2.00 | 1.19 | 100 | 4300 | 3050 | | U | | A | | |
| Quartzline® Single-Ended - Amp Rated | | | | | | | | | | | | | | | | | | |
| T4 | G29.5 2-Pin | 120 | 10099 | EWV | 6.6A | 24 | C-6 Oval | 2.50 | 1.54 | 500 | 3150 | 3200 | | BD | Airport | A | | |
| | | 150 | 11427 | EWR | 6.6A | 24 | C-6 Oval | 2.50 | 1.54 | 500 | 4100 | 3200 | | BD | Airport | A | | |
| T3.5 | G29.5 2-Pin | 30 | 11478 | EXL | 6.6A | 24 | C-8 | 1.75 | 1.00 | 1000 | 375 | 2900 | | HD | Airport | A | | |
| | | 45 | 11482 | EXM | 6.6A | 24 | C-8 | 1.75 | 1.00 | 1000 | 750 | 2950 | | HD | Airport | A | | |
| T4 | G29.5 2-Pin | 200 | 15243 | EZL | 6.6A | 24 | C-6 Oval | 2.50 | 1.54 | 500 | 5000 | 3100 | | BD | Airport | A | | |
| Quartzline® Double-Ended Projection | | | | | | | | | | | | | | | | | | |
| T5 | R7s | 1000 | 38311 | ETT | 120 | 24 | CC-8 | 3.75 | | 70 | | 3350 | | U | Spec. (PH1000H) | A | | |
| Incandescent Projection | | | | | | | | | | | | | | | | | | |
| Double Contact Bayonet Base, ANSI Base Designation: BA15D | | | | | | | | | | | | | | | | | | |
| T8 | D. C. Bay. | 50 | 29171 | CAX | 118 | 24 | CC-2V | 3.13 | 1.38 | 50 | 775 | 2875 | | BD | Optical Projection | | | |
| | | 50 | 29169 | CAX | 130 | 24 | CC-2V | 3.13 | 1.38 | 50 | 775 | 2875 | | BD | Optical Projection | | | |
| Photoflood | | | | | | | | | | | | | | | | | | |
| Reflector | | | | | | | | | | | | | | | | | | |
| R40 | Medium | 500 | 30151 | DXB | 120 | 24 | CC-2V | 6.63 | | 6 | | 3300 | 45000 | | Spot Beam, 15 Degrees | A, Q | | |

Footnotes

Q Approximate beam spread to 1/2 center-beam intensity.

Warning and Caution Notices

A

⚠ Warning

Risk of electrical shock

- Turn power off before inspection, installation or removal

Risk of fire

- Keep combustible material away from lamp
- Use in enclosed fixtures rated for this product

Pressurized lamp – unexpected rupture may cause injury, fire, or property damage

- Do not exceed 110% of rated voltage
- Avoid direct water/liquid contact
- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken

Caution

⚠ Risk of burn

- Allow lamp/fixture to cool before handling
- Turn off power before installing lamp

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in enclosed container

ANSI Coded GE Projection Lamps Index

| Order Code | Description | Watts | Volts | Bulb Shape | Base | Page No. |
|--|-------------|-------|-------|------------|----------------|----------|
| BHC USE DYS/DYV/BHC | | | | | | |
| 29171 | CAX | 50 | 118 | T8 | D. C. Bay. | 9-6 |
| 29169 | CAX | 50 | 130 | T8 | D. C. Bay. | 9-6 |
| DAB USE CZX/DAB DAK USE DAT/DAK | | | | | | |
| 43537 | DDL | 150 | 20 | MR16 | GX5.3 2-Pin | 9-6 |
| 43950 | DED | 85 | 13.8 | MR16 | GX5.3 2-Pin | 9-6 |
| DLG USE DLS/DLG/DHX | | | | | | |
| 30151 | DXB | 500 | 120 | R40 | Medium | 9-6 |
| 33250 | DYR | 650 | 240 | G7 | GZ9.5 2-Pin Pf | 9-6 |
| 32955 | DYS/DYV/BHC | 600 | 120 | G7 | GZ9.5 2-Pin Pf | 9-6 |
| DYV USE DYS/DYV/BHC | | | | | | |
| 37346 | DZA | 30 | 10.8 | T3.5 | G5.3 2-Pin | 9-6 |
| 14874 | EHJ | 250 | 24 | T4 | G6.35 2-Pin | 9-6 |
| EJN USE ELD/EJN | | | | | | |
| 35200 | EKE | 150 | 21 | MR16 | GX5.3 2-Pin | 9-6 |
| EKS USE EMM/EKS | | | | | | |
| 37462 | ELC | 250 | 24 | MR16 | GX5.3 2-Pin | 9-6 |
| 15377 | ELC/500 | 250 | 24 | MR16 | GX5.3 2-Pin | 9-6 |
| ENA USE EKP/ENA ENC USE ENW/ENC | | | | | | |
| 25475 | ENL | 50 | 12 | MR16 | GX5.3 2-Pin | 9-6 |
| 41705 | ENX | 360 | 82 | MR16 | GY5.3 2-Pin | 9-6 |
| 19475 | ENX-5 | 360 | 86 | MR16 | GY5.3 2-Pin | 9-6 |
| 41729 | EPT | 42 | 10.8 | MR16 | GX5.3 2-Pin | 9-6 |
| 38311 | ETT | 1000 | 120 | T5 | R7s | 9-6 |
| 10099 | EVV | 120 | 6.6A | T4 | GZ9.5 2-Pin | 9-6 |
| 11427 | EWR | 150 | 6.6A | T4 | GZ9.5 2-Pin | 9-6 |
| 11478 | EXL | 30 | 6.6A | T3.5 | GZ9.5 2-Pin | 9-6 |
| 11482 | EXM | 45 | 6.6A | T3.5 | GZ9.5 2-Pin | 9-6 |
| 12696 | EVB | 360 | 82 | T3.5 | G5.3 2-Pin | 9-6 |
| EZJ USE EZF/EZJ | | | | | | |
| 15243 | EZL | 200 | 6.6A | T4 | GZ9.5 2-Pin | 9-6 |
| FBD USE FBG/FBD | | | | | | |
| 14876 | FCR | 100 | 12 | T3 | GY6.35 2-Pin | 9-6 |
| 13598 | FCS | 150 | 24 | T4 | G6.35 2-Pin | 9-6 |
| FDS USE DZE/FDS | | | | | | |
| 35321 | FDT | 100 | 12 | T3 | GZ9.5 2-Pin Pf | 9-6 |
| 36878 | FDV | 150 | 24 | T4 | G6.35 2-Pin | 9-6 |
| FKT USE EVH/FKT | | | | | | |
| 14887 | FML | 50 | 13.8 | MR16 | GX5.3 2-Pin | 9-6 |
| 21613 | FXL | 410 | 82 | MR16 | GY5.3 2-Pin | 9-6 |

Table of Contents

T8 Instant Start Ballasts

Understanding the New Fluorescent Ballast Rule, EPCA 10 CFR 430 10-2

Understanding T8 Fluorescent Ballasts 10-3

Understanding Fluorescent Systems 10-4

Fluorescent Ballast Application Notes 10-5

UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency
 For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps 10-7
 For 46 – 59W 4 ft–8 ft Slimline Lamps 10-23

UltraMax® Professional Series MultiVolt High Output 120–277V
 For 44-86W 4ft-8ft HO Lamps 10-25

UltraMax® Professional Series 347V High-Efficiency 10-26

UltraMax® Professional Series 480V High-Efficiency 10-36

UltraMax® General Series T8 Multi-Voltage 120–277V
 For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps 10-39
 For 46 – 59W 4 ft–8 ft Slimline Lamps 10-49

UltraMax® General Series 347V Instant Start High Performance 10-51

ProLine® T8 Instant-Start 120V and 277V High-Performance
 For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamp 10-56
 For 46 – 59W 4 ft–8 ft Slimline Lamps 10-57

Residential Grade ProLine® T8 120V
 For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps 10-58

Electromagnetic T8 120V and 277V Ballasts
 For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps 10-60

Wiring Diagrams 10-61

Case Dimensions 10-62



Understanding the New Fluorescent Ballast Rule, EPCA 10 CFR 430



In 2008 Congress began the Rulemaking for Fluorescent Ballasts, and as it is a 3-year process, the New Rule was completed in November 2011, and will come into effect in November of 2014. The current rule covered only the Federally Regulated T12 lamp ballast for 4-foot and 8-foot T12 lamps and was based on Ballast Efficacy Factor (BEF) as the performance metric. The BEF measurement is a complicated photometric process with many opportunities for error in the measurements. In order to improve the accuracy of the rating process, a new metric was developed, Ballast Luminous Efficiency (BLE), a purely electrical measurement without the error prone photometric measurements.

The New Rule also expands the number and types of ballasts that will be under Federal Regulation. Currently, until November 2014, only the T12 types mentioned are under Regulation. In November 2014, many more types of ballasts will be under Regulation, including most T8 and T5 ballasts. Sign and Residential ballasts are also included in the New Rule. Ballast manufacturers are required to report the performance of these ballast types to the Department of Energy and certify that they meet the BLE requirements for the specific ballast types.

The test plan for the BLE metric measurement is based on the ballast operating a known lamp load. The total discharge or output power is measured and applied to an equation for the specific ballast type. The equation provides the minimum performance limit. The ratio of the output power divided by the input power defines the ballast efficiency, and the ballast efficiency must be greater than the calculated limit for the ballast to be compliant.

One other change that is coming is a new way to determine Ballast Factor, or the light output level of the ballast. The present way is a photometric ratio measurement requiring a controlled environment and reference ballasts and lamps. In the new method, a purely electrical measurement, the output the average output power for one lamp is compared to an Industry Standard (ANSI) rated lamp power. The ballast factor is simply the ratio of the measured power divided by the ANSI rated power.

The familiar BEF value can be calculated as it always has been, dividing the Ballast Factor by the input power. However, an existing BEF cannot be “back calculated” to arrive at an input wattage or ballast factor.

The increased performance requirements of the New Rule will cause some ballasts to be taken off the market. Many GE ballasts already meet the new 2014 requirements and will continue to be available for sale as the Rule becomes effective.

Understanding T8 Fluorescent Ballasts

A comprehensive range of solutions...from GE, the name you trust.

GE introduced the first fluorescent ballast more than 60 years ago. Today we are providing high-frequency electronic ballasts for almost every fluorescent application.

With our UltraMax® and UltraStart® ballasts, we are bringing you the future in ballast performance.

GE revolutionizes lighting again with breakthrough technology. Our patented UltraMax® instant-start and UltraStart® programmed start electronic ballasts transform the power of light into efficiency and savings from store shelves to the installation site. The foundation of the "Ultra" family of ballasts starts with its high efficiency ratings. High efficiency ballasts are a minimum of 90% efficiency with some ballasts nearly 95% efficient which means the ballast only consumes 5-10% of the total system power. These high efficiency ballasts exceed minimum high efficiency standards as established by almost all energy advocate groups, utility rebate programs and the NEMA Premium® ballast program. The ballasts are marked with the Ultra brand as well as the NEMA Premium® ballast mark. These ballasts have multi-voltage control (MVC), which automatically adjusts to handle voltage from 120V through 277V. That cuts the ballast models you need to stock from 40 down to 13, which can dramatically reduce inventory carrying costs. UltraMax® ballasts have ArcGuard Protection, too, with a UL Type CC Anti-Arc Rating. Plus, they're ultra-lamp-friendly, with a low lamp current crest factor of 1.4 for optimal lamp performance. Both UltraMax® and UltraStart® have anti-striation control for better light quality with no lamp striations (spiraling). And the small, low-profile design of these ballasts makes retrofits effortless at the job site. Also unique to our programmed start UltraStart® ballasts is parallel lamp operation which means that if one lamp fails the others remain on, and quick starting times of less than 700 milliseconds which is necessary in avoiding delays with automatic sensors.

GE Fluorescent Ballast Types

Electronic Instant Start

The most common fluorescent ballast is the instant start and is used typically in long 3 to 10-hour lamp cycle applications. These ballasts are energy efficient and can deliver 20% to 40% energy savings when installed with energy-efficient lamps in building retrofits. These ballasts deliver >550 open circuit volts when starting lamps and operate lamps at high frequencies which offers flicker-free operation and better lamp efficiencies. The ballasts are significantly quieter than conventional magnetic ballasts and are backed by GE's ultra system 5-year ballast limited warranty and extended lamp warranties.

UltraMax® Professional Series

A family of high-efficiency GE T8 instant-start electronic linear fluorescent ballasts designed to optimize GE's T8 Ultra lamps for optimal system energy savings. UltraMax® ballasts have a low lamp current crest factor and virtually "read" and adapt to incoming voltage from 108V to 305V. Other features include UL Type CC Anti-Arc Rating and anti-striation control to eliminate lamp striations and spiraling. These ballasts are offered in ballast factors: low wattage (.77), normal light (.87), normal-high (N+) (1.0) and high (>1.15).

UltraMax® General Series

Offered in dedicated or multi-volt (120-277V), these high-performance T8 instant-start ballasts also meet minimum efficiency requirements as established with the NEMA Premium® ballast program. These ballasts are offered in ballast factors: low wattage (.77), normal light (.87), and high (>1.15).

Programmed Start

Programmed Start electronic ballasts have a lamp starting method that preheats lamp filaments before applying an open circuit voltage (OCV) to start the lamp. Use Programmed Start ballasts to ensure long lamp life when turning lamps on and off more than five times in a day or in conjunction with any automatic light control or sensor. This type of starting circuit keeps lamp-end blackening to a minimum and improves lamp life performance, especially in applications where the lamps are frequently switched on and off.

UltraStart®

UltraStart® is a family of high-efficiency GE Programmed Start electronic linear fluorescent ballasts that also exceed NEMA Premium® ballast efficiency requirements but are designed to optimize GE's T8 Ultra lamps in frequently switched applications. Instant start ballasts provide 7,000-13,000 starts before 50% lamp failure. UltraStart® provides greater than 100,000 starts before 50% lamp failure. UltraStart® ballasts provide the same energy savings and convenience of instant start ballasts but with the longer lamp life offered a programmed start ballast. These ballasts are offered in ballast factors: programmed start x-low wattage (XL) (.60), low wattage (.71), normal light (.87), and high (>1.15).

Ballast Date Codes

Date Codes

GE electronic ballast manufacturing date codes are located on the upper right-hand corner of the label. The code lists the month, year and day of manufacture. A typical code is C16-073, where the month is listed as A (January), B (February), C (March) as in this code followed by the year 16 (2016) and the date of manufacture 073 (the 73rd day of 2016).

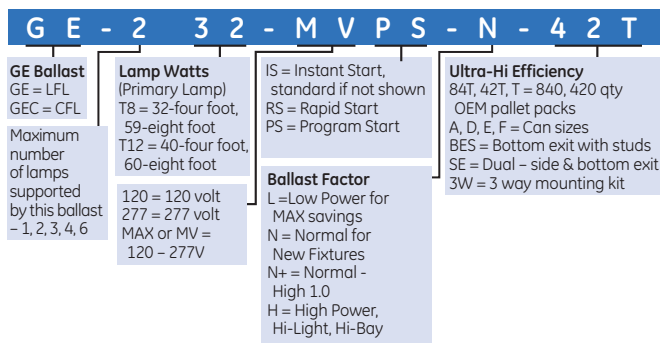
Ballast Life

GE electronic ballasts are designed and manufactured to an average life expectancy of 60,000 hours of operation at maximum rated case temperatures. As a rule of thumb, ballast life is doubled for every 10C reduction in ballast case temperature. However there are other variables such as transients, voltage sags and swells, ambient temperature, etc., which affect ballast life as well.

Instant Start vs. Rapid Start Sockets

When using programmed start or dimming ballasts in fixtures, sockets must be 2-pin rapid start type. Fixtures with T8 instant start ballasts must use jumpered rapid start sockets or shunted lamp holders (internal to the lamp holder) that bridge the lamp bi-pins together into one contact on each side of the lamp. If retrofitting from a instant start ballast fixture with shunted sockets to a dimming or programmed start ballast, rapid start type sockets must be used to properly start lamps and maintain rated lamp life.

GE Ballast Electronic nomenclature



Understanding Fluorescent Systems

GE introduced the first practical fluorescent lamp in 1938. All fluorescent lamps operate on electrical control gear called a ballast. Today, electronic ballasts have continued to replace the magnetic designs that were common previously. The 4-foot T8 lamp on an electronic ballast is the most common system. The generic version of this lamp is called the F32T8 and in recent years, energy saving reduced wattage lamps like the F28T8 and the F32T8/25W have become popular. These lamps typically operate on Instant Start (IS) or Programmed Rapid Start (PRS) ballasts and both types of ballasts are available in a variety of ballast factors ranging from 0.60 to 1.18.

Ballast Factor

The F32T8 lamp has a "nominal" wattage of 32 watts. Nominal means "in name only" because there are no ballasts commercially available that will operate this lamp at 32 watts! The "N" or "Normal" ballast factor ballast operates this at around 26 watts while the "L" operates the lamp around 23 watts; the "N+" operates it around 29 watts and the "H" around 34 watts. Electronic ballasts operate lamps at high frequencies of greater than 20 kHz, which results in more efficient lamp operation than at 60 kHz, like the magnetic ballasts they replace. This results in a lamp that is more efficient than the 32 nominal watts.

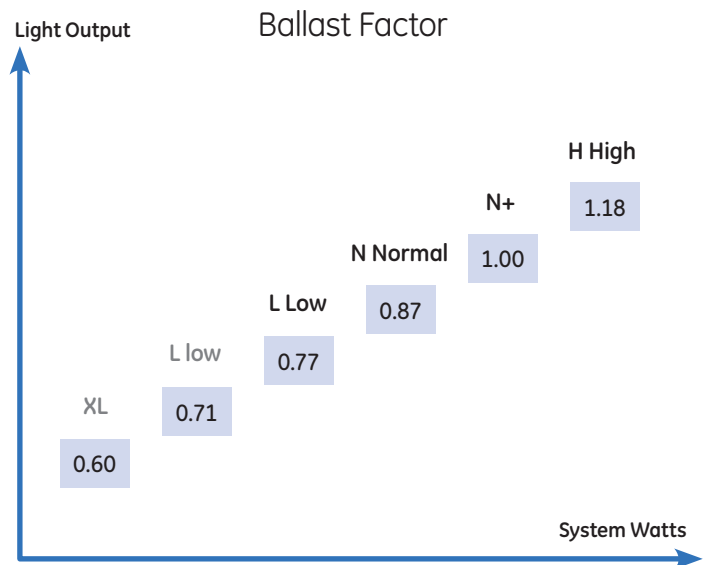
Unlike HID lamps and Incandescent/Halogen lamps which are designed for optimum performance at a specific wattage, linear fluorescent lamps can be operated over a reasonably wide range without sacrificing performance, such as life or efficacy. Therefore, there is no "optimum" wattage for a lamp, only a range. The F32T8 lamp can produce between 60% to 118% of its catalog lumens when operated on a ballast with a ballast factor of 0.60 to 1.18. The higher the operating wattage, the higher the lumen output within this range.

Consumers have a choice among ballasts, depending on how much light they desire from the lamp and how much energy they are trying to save. The ballast specification from the ballast manufacturer provides the "input wattage" of the ballast. A two lamp electronic ballast with input watts of 56 watts (BF of 0.88) is using 56 watts of power to operate 2 lamps--typically 26 watts in each lamp and 4 watts in the ballast. In contrast, a ballast with BF of 1.18 will consume 76 watts but also produce more light.

An engineer or designer will choose a high BF when trying to "squeeze" as much light as possible from the lamp, e.g. in high-bay applications or when they are trying to reduce the number of lamps used in the area. A lower BF reduces the light output and wattage of each lamp, so that more lamps (and more fixtures) are needed to achieve a certain footcandle level in the same area. Of course more fixtures also means closer spacing and more uniform lighting.

It must be noted that ballast factor (and any measure involving BF) requires a measurement of lamp lumens and is, therefore, not a pure electrical measurement. The uncertainty and variation associated with individual lamp performance is present in these measures.

$$\text{Actual Light Output of Lamp} = (\text{Catalog Lumens}) \times (\text{Ballast Factor})$$



Instant Start and Programmed Rapid Start Ballasts

There are two major families of ballasts. While the current limiting function is the same, these ballasts differ in how they start the lamp.

Instant Start (IS) Ballasts apply a relatively high voltage (e.g. 550 volts) to get the discharge going and the lamp starts instantaneously. (GE's UltraMax® family)

Programmed Rapid Start (PRS) Ballasts provide a gentler start through cathode heating prior to application of starting voltage, and are particularly useful when lamps are turned on and off frequently (motion sensors, occupancy sensors). However, they are being used even in one-start-a-day applications because they extend lamp life significantly. (GE's UltraStart® family)

Ballast Efficacy Factor (BEF)

BEF is BF (Ballast factor) divided by ballast input watts. For a given BF and a certain number of lamps operated on the ballast, the more efficient ballast will have lower watts and, therefore, a higher BEF.

$$\text{Ballast Efficacy (BEF) Factor} = \frac{\text{Ballast Factor}}{\text{Ballast Input Watts}} \times 100$$

Some industry groups write standards based on BEF in order to identify more efficient ballasts. However, this measure is somewhat obscure and an alternate measure that is simpler to understand is:

System Efficacy (Mean System LPW or MLPW)

This is the mean source lumens provided by the particular system divided by the watts the system is using.

$$\text{Mean Source Lumens} = \left(\text{Lamp Mean Lumen Rating} \right) \times \left(\text{Ballast Factor} \right) \times \left(\text{Number of Lamps} \right)$$

and

$$\text{System Efficacy (MLPW)} = \frac{\text{Mean Source Lumens}}{\text{Ballast Input Watts}}$$

The Consortium on Energy Efficiency (CEE) uses both BEF and MLPW in its documents on high performance T8 specifications and reduced wattage T8 specifications. The rebate programs of many utilities around the country currently use these two measures to determine which systems will qualify for rebates.

Ballast Electrical Efficiency (BE)

A simple electrical measure of how efficiently a ballast performs is:

$$\text{Ballast Efficiency} = \frac{\text{Watts Delivered to Lamps}}{\text{Ballast Input Watts}}$$

NEMA (National Electric Manufacturer's Association) uses Ballast Efficiency (BE) as an alternative method to designate "NEMA PREMIUM" ballasts as those having 90% or greater electrical efficiency. BE is gaining increasing acceptance as an objective and reproducible measure because it excludes the variability present in individual lamp performance and the difficulties associated with accurate determination of lumens.

Fluorescent Ballast Application Notes

Ballast Operating Lifetime

Heat is the enemy of modern electronic ballasts. As ballast case temperature increases, life expectancy decreases. GE ballast designs feature patented high efficiency circuits that have less losses and lower internal heat generation than competitive ballasts. Ballast lifetime is developed from thermal testing conducted per UL specified test conditions at a 40°C still air ambient condition. Some GE ballasts are even UL approved for use at 55°C ambient without exceeding the maximum permissible case temperature. Since GE ballasts typically operate well below the maximum temperature rating, the ballast lifetime will usually extend longer than the design life of 60,000 hours. Reducing the case temperature by 10°C will double the life expectancy, but this depends on the operating environment which includes ambient temperature, fixture thermal performance and input voltage conditions.

EMI and RFI

All electronic ballasts operate at frequencies that generate Electromagnetic Interference or Radio Frequency Interference. GE Ballasts are tested by FCC certified labs to ensure their emissions are well within the established limits for Class A Commercial and Industrial applications. Some GE ballasts are designed for Residential applications and meet a more stringent Class B Consumer FCC rating. The Consumer rating will minimize chances of the ballast interfering with radio and television reception. If interference results, ensure the ballast case is properly grounded to the metal fixture, and the fixture is grounded by a green ground wire that connects directly to the service panel. As the electromagnetic spectrum is increasing occupied, it is recommended to test a sample lamp and ballast system in the intended environment to ensure there are no undesired interactions with other equipment or systems operating in the same environment.

Energy Saving Lamps

Energy saving lamps lower the lamp operating wattage by use of special gas mixtures. These lamps are sometimes harder to strike or break down than full wattage lamps and due to the gas mixture, may be more susceptible to striations during operation. GE Ballasts feature proprietary anti striation circuitry that minimize or completely eliminate striation effect of energy saving lamps. Ballast remote mounting distance is specified for standard full wattage lamps only.

Fixture Wiring Techniques

Electronic ballasts are now much more popular than the old magnetic ballasts, offering superior energy efficiency, greater lamp efficacy, and cooler operation. The first electronic ballasts operated only slightly above the audible frequency range around 22 kHz. As today's ballasts operate at high frequency, typically 40 kHz and higher, some attention is needed to ensure the fixture wiring does not create any starting or operational issues due to wiring capacitance.

As ballasts decrease in size, the operation frequency increases. The increased frequency of operation makes capacitive effects more pronounced. Capacitive effects come from a high frequency lead wire being in proximity to another lead wire or the grounded metal of the fixture. Worse capacitive effects result when the lead wires are closer and the frequency is higher.

When installing ballasts into fixtures, the wiring needs to be routed point to point and if possible, the excess wire trimmed out. Occasionally, some installers tend to be too neat, twisting the wires together or bundling the wires together with wire ties. While this does make for a neat fixture, it may create capacitive effect issues for the lamp and ballast system.

Wire bundling can create unintended current flows from lead to lead and also from lead to ground in the fixture. These current flows are parasitic, and will reduce the available starting voltage, preheating current or discharge current in the lamp. The results can be poor or erratic starting or reduced system efficacy as some of the energy from the ballast is getting "short circuited" away from the intended lamp load. In T5 or CFL applications, excessive stray capacitance can also affect End Of Life circuit operation, causing the ballast to prematurely shut down.

In dual switched systems, or systems that use two or more ballasts within the same fixture, ballasts more subject to cross talk and interference due to capacitive effects. It is important the wiring be placed neatly without bunching up the excess in the wiring channel. Lamp leads can run parallel to each other but should not be bundled or tied together. Lamp leads should also be trimmed when possible to eliminate excess lead length. It is also good to keep the output leads from one ballast away from those of the other ballast. Lamp leads should also be kept away from the AC input leads as this can cause undesired interference or EMI, which can affect other devices operating on the same power source.

In summary, the lamp lead wiring should be laid parallel into the fixture with excess length trimmed. Do not twist or otherwise bundle the leads together, and ensure no leads are caught or crimped between the ballast channel cover and the fixture body.

Remote and Tandem Mounting of Ballasts

As today's economics drive lower first costs, many fixture manufacturers increasingly use only one ballast to operate lamps in two or more fixtures. This tandem mounting scheme decreases the total number of ballasts needed for a given installation. The fixtures are typically interconnected with a wiring "whip" of flexible metal conduit with a number of wires inside. The whip brings the high frequency lamp leads from the ballast in one fixture to the lamp or lamps in a satellite fixture. Tandem operation has lamps operating in the fixture that has the ballast and also in the satellite fixture.

Remote mounting is when a ballast is located in a separate enclosure without lamps and wires to all the lamps run through a conduit or flexible whip to a remote fixture which contains the lamps.

In past years, ballasts were magnetic and operated at 60 Hz, and tandem or remote mounting scheme was only occasionally used, so issues with remote or tandem mounting were not so frequent. In today's energy efficient electronic ballasts, the frequency is much higher, usually greater than 40 kHz, and more fixtures are being tandem operated to manage first costs of a system. Tandem operation can lead to system issues such as poor or erratic starting and differences in light level during steady state lamp operation.

These issues develop when the combination of high operating frequency and parasitic capacitance from the wiring create unintended coupling between conductors or to earth ground. Each wire in the fixture and the interconnect whip will have a certain capacitance to other wires running parallel to it, and also a capacitance to earth ground. This unintended capacitive coupling creates a shunt path taking away some energy that was intended for the lamp load. This causes reductions in the available open circuit voltage need to strike the lamp or a loss of preheating energy. Both cases lead to poor or erratic starting in the remote fixture(s).

For some multiple lamp ballasts, certain lamp leads are at higher potential and should be connected to lamps that reside in the same fixture as the ballast. The ballast manufacturer may have specific recommendations as to which of the lamp leads can be utilized for the remote fixture of a tandem set, and restrictions on how long the wiring from ballast to lamp may be. Ballasts may also have different permissible wiring lengths per lamp lead color based on the application. Remote mounting applications may permit a longer wiring length than some tandem applications as the remote situation presents a uniform loss to all lamp leads. The tandem operation scheme may present different capacitances to different lamp leads that could result in poor starting and differences in light level during operation.

In some cases, these issues are compounded because the interconnect whip is carrying wires connected to two different ballasts. Since the ballasts are not likely to be exactly in phase, there can be additional losses due to capacitive phase cancellation between leads of the two different ballasts. There may also be system interactions where either ballast will work fine separately, but will not work together. In these cases, the interconnect whip may need to be shorter, limiting the distance between the fixtures, or two separate whips could be used.

As the ballast operating frequency gets higher, the capacitive shunting effect become more pronounced. Dimming ballasts typically are at the highest frequency when in deep dimming. Due to the effects of capacitive losses, lamps may appear at different intensities or drop out and may flicker due to losses of cathode heating energy. It is recommended that dimming ballasts not be remote mounted or used in tandem operation, all lamp wiring must stay within the fixture containing the dimming ballast.

Energy saving lamps may be more susceptible to starting issues when used in remote or tandem fixture operation. These lamps utilize a gas mixture that does not ionize as easily as full wattage lamps, and are more likely to have starting issues due to the reduced starting voltage resulting from the capacitive losses.

Remote starting distances are specified at room temperature using standard life, full wattage lamps, with one ballast driving all lamps located in the remote fixture through a single conduit at the specified distance. In view of the possible differences related to any specific application, it is advised that any tandem or remote mount application using one or more ballasts be tested in the final configuration to ensure the system will perform as expected in the intended environment.

UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

72258 – GE132MAXP-L/ULTRA

UltraMax® P-Series Instant Start

Multi-Voltage High-Efficiency

1 – F32T8 120 to 277 "L" .77 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

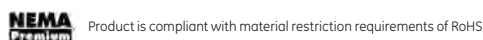
| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 72258 | | | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1A – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.6lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 1 | 120 | 25 | 0.22 | .78 | 3.12 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 25 | 0.10 | .78 | 3.12 | 94 | 1.5 | 10 | -22/-30 |
| F32T8/AWM | 1 | 120 | 24 | 0.21 | .77 | 3.21 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 24 | 0.09 | .77 | 3.21 | 94 | 1.5 | 10 | -22/-30 |
| F28T8 | 1 | 120 | 22 | 0.20 | .81 | 3.68 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 22 | 0.09 | .81 | 3.68 | 94 | 1.5 | 10 | -22/-30 |
| F32T8/25W | 1 | 120 | 21 | 0.18 | .77 | 3.67 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 21 | 0.08 | .77 | 3.67 | 93 | 1.5 | 10 | -22/-30 |
| F25T8 | 1 | 120 | 21 | 0.18 | .87 | 4.14 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 21 | 0.08 | .87 | 4.14 | 93 | 1.5 | 10 | -22/-30 |
| F17T8 | 1 | 120 | 15 | 0.13 | .92 | 6.13 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 15 | 0.07 | .92 | 6.13 | 89 | 1.5 | 10 | -22/-30 |
| FE15T8 | 1 | 120 | 14 | 0.10 | .77 | 5.5 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 14 | 0.05 | .77 | 5.5 | 87 | 1.5 | 10 | -22/-30 |
| F25T12 | 1 | 120 | 21 | 0.19 | .80 | 3.81 | 99 | 1.5 | 10 | 0/-18 |
| | 1 | 277 | 21 | 0.09 | .80 | 3.81 | 94 | 1.5 | 10 | 0/-18 |

Safety and performance



UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

72259 – GE132MAXP-N/ULTRA

UltraMax® P-Series Instant Start

Multi-Voltage High-Efficiency

1 – F32T8 120 to 277 “N” .87 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic - High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 72259 | | | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1A – see example on Page 10-61 | |
| Case dimensions – Ref Drawing – A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.6 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 1 | 120 | 28 | 0.24 | .88 | 3.14 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 28 | 0.11 | .88 | 3.14 | 98 | 1.5 | 10 | -22/-30 |
| F32T8/NM | 1 | 120 | 27 | 0.23 | .87 | 3.22 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 27 | 0.10 | .87 | 3.22 | 98 | 1.5 | 10 | -22/-30 |
| F28T8 | 1 | 120 | 25 | 0.22 | .89 | 3.56 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 25 | 0.10 | .89 | 3.56 | 98 | 1.5 | 10 | -22/-30 |
| F32T8/25W | 1 | 120 | 24 | 0.19 | .88 | 3.67 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 23 | 0.09 | .88 | 3.83 | 94 | 1.5 | 10 | -22/-30 |
| F25T8 | 1 | 120 | 23 | 0.19 | .94 | 4.09 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 24 | 0.09 | .94 | 3.92 | 94 | 1.5 | 10 | -22/-30 |
| F17T8 | 1 | 120 | 17 | 0.14 | .98 | 5.76 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 17 | 0.07 | .98 | 5.76 | 90 | 1.5 | 10 | -22/-30 |
| FE15T8 | 1 | 120 | 14 | 0.12 | .92 | 6.57 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 14 | 0.06 | .92 | 6.57 | 88 | 1.5 | 10 | -22/-30 |
| F25T12 | 1 | 120 | 25 | 0.21 | .94 | 3.76 | 99 | 1.5 | 10 | 0/-18 |
| | 1 | 277 | 25 | 0.10 | .94 | 3.76 | 94 | 1.5 | 10 | 0/-18 |

Safety and performance



UltraMax® Professional Series

Instant Start Multi-Voltage 120–277V High-Efficiency

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

63885 – GE132MAXP-H/ULTRA

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency
1 – F32T8 120 to 277 “H” 1.18 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |






| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |


| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 63885 | | | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1A – see example on Page 10-61 | |
| Case dimensions – Ref Drawing – A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.6lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F32T8 | 1 | 120 | 38 | 0.32 | 1.18 | 3.11 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 37 | 0.14 | 1.18 | 3.19 | 97 | 1.5 | 10 | -22/-30 | |
| F32T8/NWM | 1 | 120 | 36 | 0.30 | 1.15 | 3.19 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 35 | 0.13 | 1.15 | 3.29 | 97 | 1.5 | 10 | -22/-30 | |
| F28T8 | 1 | 120 | 33 | 0.28 | 1.15 | 3.48 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 33 | 0.12 | 1.15 | 3.48 | 96 | 1.5 | 10 | -22/-30 | |
| F32T8/25W | 1 | 120 | 30 | 0.25 | 1.20 | 4.00 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 30 | 0.11 | 1.20 | 4.00 | 96 | 1.5 | 10 | -22/-30 | |
| F25T8 | 1 | 120 | 30 | 0.25 | 1.20 | 4.00 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 30 | 0.11 | 1.20 | 4.00 | 96 | 1.5 | 10 | -22/-30 | |
| F17T8 | 1 | 120 | 22 | 0.18 | 1.23 | 5.59 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 22 | 0.09 | 1.23 | 5.59 | 93 | 1.5 | 10 | -22/-30 | |
| FE15T8 | 1 | 120 | 19 | 0.16 | 1.20 | 6.32 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 19 | 0.08 | 1.20 | 6.32 | 91 | 1.5 | 10 | -22/-30 | |
| F25T12 | 1 | 120 | 33 | 0.27 | 1.20 | 3.64 | 99 | 1.5 | 10 | 0/-18 | |
| | 1 | 277 | 32 | 0.12 | 1.20 | 3.75 | 96 | 1.5 | 10 | 0/-18 | |

Safety and performance


 UL Class P
  UL Type 1 Outdoor
  UL Type CC
  UL Type HL
 FCC – CLASS A Non-Consumer


 Product is compliant with material restriction requirements of RoHS

Ballasts
T8 Instant Start
T8 Programmed Start
T8/T5 Dimming
T5 Electronic Programmed Start
T12 Electronic & High Output
Magnetic
Sign
Compact Fluorescent
HID Electronic & Electromagnetic

UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

73190 – GE232MAXP-H/ULTRA

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency

2 or 1 – F32T8 120 to 277 "H" 1.18 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

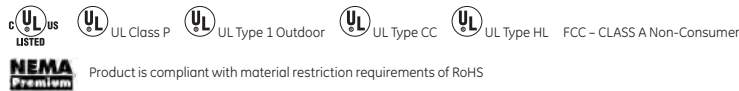
| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 73190 | 73191 | | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1B – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.7lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|-------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F32T8 | 2 | 120 | 74 | 0.62 | 1.19 | 1.61 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 73 | 0.26 | 1.19 | 1.63 | 98 | 1.5 | 10 | -22/-30 | |
| | 1 | 120 | 47 | 0.40 | 1.38 | 2.94 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 46 | 0.18 | 1.38 | 3.00 | 96 | 1.5 | 20 | -22/-30 | |
| | 2 | 120 | 70 | 0.59 | 1.16 | 1.66 | 99 | 1.5 | 10 | 22/-30 | |
| | 2 | 277 | 69 | 0.26 | 1.16 | 1.68 | 98 | 1.5 | 10 | 22/-30 | |
| F32T8/WM | 1 | 120 | 43 | 0.37 | 1.37 | 3.19 | 99 | 1.5 | 10 | 22/-30 | |
| | 1 | 277 | 43 | 0.17 | 1.37 | 3.19 | 95 | 1.5 | 15 | 22/-30 | |
| | 2 | 120 | 65 | 0.55 | 1.14 | 1.75 | 99 | 1.5 | 10 | 22/-30 | |
| | 2 | 277 | 64 | 0.24 | 1.14 | 1.78 | 97 | 1.5 | 10 | 22/-30 | |
| | 1 | 120 | 40 | 0.34 | 1.34 | 3.35 | 99 | 1.5 | 10 | 22/-30 | |
| | 1 | 277 | 41 | 0.16 | 1.34 | 3.27 | 94 | 1.5 | 20 | 22/-30 | |
| F28T8 | 2 | 120 | 60 | 0.51 | 1.16 | 1.93 | 99 | 1.5 | 10 | 22/-30 | |
| | 2 | 277 | 60 | 0.22 | 1.16 | 1.93 | 97 | 1.5 | 15 | 22/-30 | |
| | 1 | 120 | 38 | 0.32 | 1.37 | 3.60 | 99 | 1.5 | 15 | 22/-30 | |
| | 1 | 277 | 38 | 0.15 | 1.37 | 3.60 | 94 | 1.5 | 20 | 22/-30 | |
| | 2 | 120 | 62 | 0.52 | 1.16 | 1.87 | 99 | 1.5 | 10 | 22/-30 | |
| | 2 | 277 | 61 | 0.22 | 1.16 | 1.90 | 97 | 1.5 | 15 | 22/-30 | |
| F25T8 | 1 | 120 | 38 | 0.32 | 1.37 | 3.61 | 99 | 1.5 | 15 | 22/-30 | |
| | 1 | 277 | 38 | 0.15 | 1.37 | 3.61 | 94 | 1.5 | 20 | 22/-30 | |
| | 2 | 120 | 41 | 0.36 | 1.17 | 2.85 | 99 | 1.5 | 10 | 22/-30 | |
| | 2 | 277 | 41 | 0.17 | 1.17 | 2.85 | 95 | 1.5 | 20 | 22/-30 | |
| | 1 | 120 | 26 | 0.23 | 1.37 | 5.27 | 99 | 1.5 | 15 | 22/-30 | |
| | 1 | 277 | 27 | 0.12 | 1.37 | 5.07 | 90 | 1.5 | 20 | 22/-30 | |
| F17T8 | 2 | 120 | 32 | 0.29 | 1.02 | 3.19 | 99 | 1.5 | 15 | 22/-30 | |
| | 2 | 277 | 33 | 0.14 | 1.02 | 3.09 | 93 | 1.5 | 20 | 22/-30 | |
| | 1 | 120 | 23 | 0.19 | 1.21 | 5.26 | 98 | 1.5 | 15 | 22/-30 | |
| | 1 | 277 | 22 | 0.10 | 1.21 | 5.50 | 87 | 1.5 | 20 | 22/-30 | |
| | 1 | 120 | 56 | 0.46 | .66 | 1.18 | 99 | 1.5 | 10 | 22/-30 | |
| | 1 | 277 | 55 | 0.21 | .66 | 1.20 | 94 | 1.5 | 15 | 22/-30 | |
| F40T8 | 2 | 120 | 64 | 0.54 | 1.11 | 1.73 | 99 | 1.5 | 10 | 0/-18 | |
| | 2 | 277 | 63 | 0.24 | 1.11 | 1.76 | 97 | 1.5 | 10 | 0/-18 | |
| | 1 | 120 | 40 | 0.35 | 1.36 | 3.40 | 99 | 1.5 | 10 | 0/-18 | |
| | 1 | 277 | 40 | 0.16 | 1.36 | 3.40 | 94 | 1.5 | 15 | 0/-18 | |
| | F25T12 | 1 | 120 | 40 | 0.35 | 1.36 | 3.40 | 99 | 1.5 | 10 | 0/-18 |
| | | 1 | 277 | 40 | 0.16 | 1.36 | 3.40 | 94 | 1.5 | 15 | 0/-18 |

Safety and performance



UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

72262 – GE232MAXP-L/ULTRA

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency
2 or 1 – F32T8 120 to 277 “L” .77 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |







| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 72262 | 72263 | | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1B – see example on Page 10-61 | |
| Case dimensions – Ref Drawing –A– see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.7lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 2 | 120 | 48 | 0.42 | .78 | 1.63 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 48 | 0.19 | .78 | 1.63 | 98 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 30 | 0.24 | .96 | 3.20 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 30 | 0.11 | .96 | 3.20 | 95 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 46 | 0.39 | .77 | 1.67 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 46 | 0.17 | .77 | 1.67 | 98 | 1.5 | 10 | -22/-30 |
| F32T8/WM | 1 | 120 | 28 | 0.22 | .77 | 2.75 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 28 | 0.11 | .77 | 2.75 | 94 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 43 | 0.36 | .77 | 1.79 | 99 | 1.5 | 10 | -22/-30 |
| F28T8 | 2 | 277 | 42 | 0.16 | .77 | 1.83 | 97 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 26 | 0.21 | .77 | 2.96 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 26 | 0.10 | .77 | 2.96 | 94 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 39 | 0.33 | .78 | 2.00 | 99 | 1.5 | 10 | -22/-30 |
| F32T8/25W | 2 | 277 | 39 | 0.15 | .78 | 2.00 | 96 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 22 | 0.18 | .78 | 3.55 | 98 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 22 | 0.09 | .78 | 3.55 | 93 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 40 | 0.34 | .78 | 1.95 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 40 | 0.15 | .78 | 1.95 | 96 | 1.5 | 10 | -22/-30 |
| F25T8 | 1 | 120 | 23 | 0.21 | .96 | 4.17 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 24 | 0.10 | .96 | 4.00 | 93 | 1.5 | 15 | -22/-30 |
| | 2 | 120 | 28 | 0.24 | .79 | 2.82 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 29 | 0.11 | .79 | 2.72 | 94 | 1.5 | 10 | -22/-30 |
| F17T8 | 1 | 120 | 17 | 0.15 | .98 | 5.76 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 18 | 0.08 | .98 | 5.44 | 90 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 23 | 0.20 | .78 | 3.39 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 23 | 0.10 | .78 | 3.39 | 91 | 1.5 | 15 | -22/-30 |
| FE15T8 | 1 | 120 | 14 | 0.13 | .78 | 5.57 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 15 | 0.07 | .78 | 5.20 | 87 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 42 | 0.35 | .80 | 1.90 | 99 | 1.5 | 10 | 0/-18 |
| | 2 | 277 | 41 | 0.15 | .80 | 1.95 | 97 | 1.5 | 10 | 0/-18 |
| F25T12 | 1 | 120 | 24 | 0.21 | .80 | 3.33 | 99 | 1.5 | 10 | 0/-18 |
| | 1 | 277 | 24 | 0.10 | .80 | 3.33 | 95 | 1.5 | 10 | 0/-18 |

Safety and performance






 FCC – CLASS A Non-Consumer

 Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

72266 – GE232MAXP-N/ULTRA

UltraMax® P-Series Instant Start

Multi-Voltage High-Efficiency

2 or 1 – F32T8 120 to 277 “N” .87 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 72266 | 72267 | 72268 | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1B – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.7 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 2 | 120 | 54 | 0.47 | .88 | 1.63 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 53 | 0.20 | .88 | 1.66 | 98 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 31 | 0.26 | 1.08 | 3.48 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 31 | 0.12 | 1.08 | 3.48 | 96 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 52 | 0.44 | .87 | 1.67 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 51 | 0.19 | .87 | 1.71 | 98 | 1.5 | 10 | -22/-30 |
| F32T8/WM | 1 | 120 | 29 | 0.25 | 1.07 | 3.69 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 29 | 0.12 | 1.07 | 3.69 | 96 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 48 | 0.40 | .85 | 1.77 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 47 | 0.17 | .85 | 1.81 | 98 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 27 | 0.24 | 1.05 | 3.89 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 27 | 0.11 | 1.05 | 3.89 | 95 | 1.5 | 10 | -22/-30 |
| F28T8 | 2 | 120 | 44 | 0.37 | .87 | 1.98 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 43 | 0.16 | .87 | 2.02 | 98 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 25 | 0.23 | .87 | 3.48 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 25 | 0.10 | .87 | 3.48 | 94 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 44 | 0.38 | .87 | 1.98 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 44 | 0.16 | .87 | 1.98 | 98 | 1.5 | 10 | -22/-30 |
| F25T8 | 1 | 120 | 26 | 0.23 | 1.09 | 4.19 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 26 | 0.11 | 1.09 | 4.19 | 94 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 31 | 0.27 | .88 | 2.84 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 31 | 0.12 | .88 | 2.84 | 96 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 19 | 0.17 | 1.09 | 5.74 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 19 | 0.08 | 1.09 | 5.74 | 90 | 1.5 | 20 | -22/-30 |
| F17T8 | 2 | 120 | 25 | 0.21 | .91 | 3.64 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 25 | 0.10 | .91 | 3.64 | 93 | 1.5 | 15 | -22/-30 |
| | 1 | 120 | 16 | 0.14 | .91 | 5.69 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 16 | 0.07 | .91 | 5.69 | 88 | 1.5 | 15 | -22/-30 |
| | 2 | 120 | 46 | 0.39 | .93 | 2.02 | 99 | 1.5 | 10 | 0/-18 |
| | 2 | 277 | 46 | 0.17 | .93 | 2.02 | 98 | 1.5 | 10 | 0/-18 |
| FE15T8 | 1 | 120 | 27 | 0.24 | .93 | 3.44 | 99 | 1.5 | 10 | 0/-18 |
| | 1 | 277 | 27 | 0.11 | .93 | 3.44 | 95 | 1.5 | 10 | 0/-18 |
| | 1 | 277 | 27 | 0.11 | .93 | 3.44 | 95 | 1.5 | 10 | 0/-18 |

Safety and performance



UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

71421 – GE232MAXP-N+

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency
2 or 1 – F32T8 120 to 277 “N+” 1.0 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal-High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 71421 | | | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1B – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.7 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F32T8 | 2 | 120 | 63 | 0.53 | 1.01 | 1.60 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 62 | 0.22 | 1.01 | 1.63 | 98 | 1.5 | 10 | -22/-30 | |
| | 1 | 120 | 39 | 0.33 | 1.17 | 3.00 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 39 | 0.14 | 1.17 | 3.00 | 96 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 60 | 0.50 | 1.00 | 1.67 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 60 | 0.22 | 1.00 | 1.67 | 98 | 1.5 | 10 | -22/-30 | |
| F32T8/WM | 1 | 120 | 37 | 0.30 | 1.16 | 3.14 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 37 | 0.14 | 1.16 | 3.14 | 96 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 55 | 0.46 | 98 | 1.78 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 55 | 0.21 | 98 | 1.78 | 98 | 1.5 | 10 | -22/-30 | |
| | 1 | 120 | 34 | 0.28 | 1.16 | 3.41 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 34 | 0.13 | 1.16 | 3.41 | 95 | 1.5 | 10 | -22/-30 | |
| F28T8 | 2 | 120 | 51 | 0.43 | 1.00 | 1.96 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 51 | 0.19 | 1.00 | 1.96 | 98 | 1.5 | 10 | -22/-30 | |
| | 1 | 120 | 31 | 0.26 | 1.00 | 3.23 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 31 | 0.12 | 1.00 | 3.23 | 95 | 1.5 | 15 | -22/-30 | |
| | 2 | 120 | 51 | 0.43 | 1.00 | 1.96 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 51 | 0.19 | 1.00 | 1.96 | 98 | 1.5 | 10 | -22/-30 | |
| F25T8 | 1 | 120 | 31 | 0.26 | 1.19 | 3.84 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 31 | 0.12 | 1.19 | 3.84 | 95 | 1.5 | 15 | -22/-30 | |
| | 2 | 120 | 37 | 0.31 | 1.01 | 2.73 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 37 | 0.14 | 1.01 | 2.73 | 97 | 1.5 | 10 | -22/-30 | |
| | 1 | 120 | 24 | 0.20 | 1.19 | 4.96 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 24 | 0.10 | 1.19 | 4.96 | 91 | 1.5 | 20 | -22/-30 | |
| F17T8 | 2 | 120 | 30 | 0.26 | 1.00 | 3.33 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 31 | 0.12 | 1.00 | 3.23 | 94 | 1.5 | 15 | -22/-30 | |
| | 1 | 120 | 20 | 0.17 | 1.00 | 5.00 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 21 | 0.09 | 1.00 | 4.76 | 89 | 1.5 | 15 | -22/-30 | |
| | 2 | 120 | 55 | 0.46 | 98 | 1.78 | 99 | 1.5 | 10 | 0/-18 | |
| | 2 | 277 | 54 | 0.20 | 98 | 1.81 | 98 | 1.5 | 10 | 0/-18 | |
| FE15T8 | 1 | 120 | 34 | 0.28 | 98 | 2.88 | 99 | 1.5 | 10 | 0/-18 | |
| | 1 | 277 | 34 | 0.13 | 98 | 2.88 | 96 | 1.5 | 10 | 0/-18 | |

Safety and performance UL Class P UL Type 1 Outdoor UL Type CC UL Type HL FCC – CLASS A Non-Consumer

Product is compliant with material restriction requirements of RoHS

Ballasts
T8 Instant Start
T8 Programmed Start
T8/T5 Dimming
T5 Electronic Programmed Start
T12 Electronic & High Output
Magnetic
Sign
Compact Fluorescent
HID Electronic & Electromagnetic

UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

78619 – GE332MAXP-H/ULTRA

UltraMax® P-Series Instant Start

Multi-Voltage High-Efficiency

3 or 2 – F32T8 120 to 277 “H” 1.18 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 78619 | 78620 | | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1C – see example on Page 10-61 | |
| Case dimensions – Ref Drawing - A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.9 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|---------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F32T8 | 3 | 120 | 110 | 0.93 | 1.18 | 1.10 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 108 | 0.40 | 1.18 | 1.12 | 98 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 85 | 0.74 | 1.30 | 1.53 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 84 | 0.32 | 1.30 | 1.55 | 98 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 103 | 0.86 | 1.13 | 1.07 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 101 | 0.36 | 1.13 | 1.09 | 98 | 1.5 | 10 | -22/-30 | |
| F32T8/WM | 2 | 120 | 79 | 0.68 | 1.26 | 1.59 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 78 | 0.30 | 1.26 | 1.62 | 98 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 95 | 0.82 | 1.14 | 1.20 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 94 | 0.35 | 1.14 | 1.21 | 98 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 73 | 0.63 | 1.28 | 1.75 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 72 | 0.27 | 1.28 | 1.78 | 97 | 1.5 | 10 | -22/-30 | |
| F28T8 | 3 | 120 | 91 | 0.79 | 1.18 | 1.30 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 90 | 0.34 | 1.18 | 1.31 | 98 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 70 | 0.59 | 1.26 | 1.80 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 68 | 0.26 | 1.26 | 1.85 | 97 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 90 | 0.79 | 1.17 | 1.30 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 90 | 0.34 | 1.17 | 1.30 | 98 | 1.5 | 10 | -22/-30 | |
| F25T8 | 2 | 120 | 70 | 0.59 | 1.32 | 1.89 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 68 | 0.26 | 1.32 | 1.94 | 97 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 61 | 0.53 | 1.18 | 1.93 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 60 | 0.23 | 1.18 | 1.97 | 97 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 47 | 0.41 | 1.32 | 2.81 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 47 | 0.19 | 1.32 | 2.81 | 95 | 1.5 | 15 | -22/-30 | |
| F17T8 | 3 | 120 | 50 | 0.42 | 1.03 | 2.06 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 50 | 0.20 | 1.03 | 2.06 | 97 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 39 | 0.33 | 1.13 | 2.90 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 39 | 0.16 | 1.13 | 2.90 | 95 | 1.5 | 15 | -22/-30 | |
| | 2 | 120 | 102 | 0.85 | 1.24 | 1.22 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 101 | 0.37 | 1.24 | 1.23 | 97 | 1.5 | 10 | -22/-30 | |
| FE15T8 | 3 | 120 | 94 | 0.81 | 1.10 | 1.17 | 99 | 1.5 | 10 | 0/-18 | |
| | 3 | 277 | 92 | 0.35 | 1.10 | 1.20 | 98 | 1.5 | 10 | 0/-18 | |
| | 2 | 120 | 73 | 0.63 | 1.23 | 1.68 | 99 | 1.5 | 10 | 0/-18 | |
| | 2 | 277 | 73 | 0.27 | 1.23 | 1.68 | 97 | 1.5 | 10 | 0/-18 | |
| | F40T8 | 3 | 120 | 94 | 0.81 | 1.10 | 1.17 | 99 | 1.5 | 10 | 0/-18 |
| | | 3 | 277 | 92 | 0.35 | 1.10 | 1.20 | 98 | 1.5 | 10 | 0/-18 |
| 2 | | 120 | 73 | 0.63 | 1.23 | 1.68 | 99 | 1.5 | 10 | 0/-18 | |
| 2 | | 277 | 73 | 0.27 | 1.23 | 1.68 | 97 | 1.5 | 10 | 0/-18 | |
| F25T12 | | 2 | 120 | 102 | 0.85 | 1.24 | 1.22 | 99 | 1.5 | 10 | -22/-30 |
| | | 2 | 277 | 101 | 0.37 | 1.24 | 1.23 | 97 | 1.5 | 10 | -22/-30 |
| | 3 | 120 | 94 | 0.81 | 1.10 | 1.17 | 99 | 1.5 | 10 | 0/-18 | |
| | 3 | 277 | 92 | 0.35 | 1.10 | 1.20 | 98 | 1.5 | 10 | 0/-18 | |
| | 2 | 120 | 73 | 0.63 | 1.23 | 1.68 | 99 | 1.5 | 10 | 0/-18 | |
| | 2 | 277 | 73 | 0.27 | 1.23 | 1.68 | 97 | 1.5 | 10 | 0/-18 | |

Safety and performance



Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

78621 – GE332MAXP-L/ULTRA

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency
3 or 2 – F32T8 120 to 277 “L” .77 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 78621 | | | |

Dimensions

Wiring diagram – LFL 1C – see example on Page 10-61
Case dimensions – Ref Drawing –A– see Page 10-62

| | |
|------------|------------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.8lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |






Lead lengths


| | |
|-------|----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 3 | 120 | 73 | 0.61 | .78 | 1.07 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 72 | 0.26 | .78 | 1.08 | 98 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 58 | 0.49 | .89 | 1.53 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 58 | 0.22 | .89 | 1.53 | 97 | 1.5 | 15 | -22/-30 |
| | 3 | 120 | 70 | 0.59 | .76 | 1.09 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 69 | 0.26 | .76 | 1.10 | 98 | 1.5 | 10 | -22/-30 |
| F32T8/WM | 2 | 120 | 54 | 0.45 | .87 | 1.61 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 54 | 0.20 | .87 | 1.61 | 97 | 1.5 | 15 | -22/-30 |
| | 3 | 120 | 64 | 0.54 | .75 | 1.17 | 99 | 1.5 | 10 | -22/-30 |
| F28T8 | 3 | 277 | 64 | 0.24 | .75 | 1.17 | 97 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 49 | 0.41 | .84 | 1.71 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 49 | 0.19 | .84 | 1.71 | 96 | 1.5 | 15 | -22/-30 |
| | 3 | 120 | 61 | 0.51 | .77 | 1.26 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 60 | 0.22 | .77 | 1.28 | 97 | 1.5 | 15 | -22/-30 |
| | 2 | 120 | 46 | 0.39 | .84 | 1.83 | 99 | 1.5 | 10 | -22/-30 |
| F32T8/25W | 2 | 277 | 46 | 0.18 | .84 | 1.83 | 95 | 1.5 | 15 | -22/-30 |
| | 3 | 120 | 61 | 0.51 | .78 | 1.28 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 60 | 0.22 | .78 | 1.30 | 97 | 1.5 | 15 | -22/-30 |
| F25T8 | 2 | 120 | 46 | 0.39 | .86 | 1.87 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 46 | 0.18 | .86 | 1.87 | 95 | 1.5 | 15 | -22/-30 |
| | 3 | 120 | 42 | 0.36 | .78 | 1.86 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 42 | 0.17 | .78 | 1.86 | 95 | 1.5 | 15 | -22/-30 |
| | 2 | 120 | 32 | 0.28 | .88 | 2.75 | 99 | 1.5 | 15 | -22/-30 |
| | 2 | 277 | 33 | 0.14 | .88 | 2.67 | 93 | 1.5 | 15 | -22/-30 |
| F17T8 | 3 | 120 | 33 | 0.29 | .70 | 2.12 | 99 | 1.5 | 15 | -22/-30 |
| | 3 | 277 | 33 | 0.14 | .70 | 2.12 | 93 | 1.5 | 15 | -22/-30 |
| | 2 | 120 | 26 | 0.23 | .77 | 2.96 | 99 | 1.5 | 15 | -22/-30 |
| FE15T8 | 2 | 277 | 26 | 0.12 | .77 | 2.96 | 90 | 1.5 | 15 | -22/-30 |
| | 3 | 120 | 61 | 0.52 | .70 | 1.15 | 99 | 1.5 | 10 | 0/-18 |
| | 3 | 277 | 61 | 0.23 | .70 | 1.15 | 97 | 1.5 | 10 | 0/-18 |
| F25T12 | 2 | 120 | 47 | 0.40 | .80 | 1.70 | 99 | 1.5 | 10 | 0/-18 |
| | 2 | 277 | 47 | 0.18 | .80 | 1.70 | 96 | 1.5 | 15 | 0/-18 |

Safety and performance


 UL Class P
  UL Type 1 Outdoor
  UL Type CC
  UL Type HL
 FCC – CLASS A Non-Consumer


 Product is compliant with material restriction requirements of RoHS

Ballasts
T8 Instant Start
T8 Programmed Start
T8/T5 Dimming
T5 Electronic Programmed Start
T12 Electronic & High Output
Magnetic
Sign
Compact Fluorescent
HID Electronic & Electromagnetic

UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

78623 – GE332MAXP-N/ULTRA

UltraMax® P-Series Instant Start

Multi-Voltage High-Efficiency

3 or 2 – F32T8 120 to 277 “N” .87 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Sound Rating | A (20-24 decibels) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

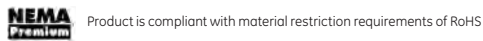
| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 78623 | | 71722 | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1C – see example on Page 10-61 | |
| Case dimensions – Ref Drawing – A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.8lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 3 | 120 | 82 | 0.70 | .88 | 1.07 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 81 | 0.30 | .88 | 1.09 | 98 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 64 | 0.54 | .97 | 1.52 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 63 | 0.24 | .97 | 1.54 | 97 | 1.5 | 10 | -22/-30 |
| | 3 | 120 | 77 | 0.65 | .86 | 1.12 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 76 | 0.28 | .86 | 1.13 | 98 | 1.5 | 10 | -22/-30 |
| F32T8/WM | 2 | 120 | 59 | 0.50 | .98 | 1.66 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 58 | 0.22 | .98 | 1.69 | 97 | 1.5 | 15 | -22/-30 |
| | 3 | 120 | 70 | 0.60 | .84 | 1.20 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 70 | 0.26 | .84 | 1.20 | 98 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 54 | 0.45 | .94 | 1.74 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 53 | 0.20 | .94 | 1.77 | 97 | 1.5 | 15 | -22/-30 |
| F28T8 | 3 | 120 | 67 | 0.57 | .87 | 1.30 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 66 | 0.25 | .87 | 1.32 | 98 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 51 | 0.43 | .93 | 1.82 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 51 | 0.19 | .93 | 1.82 | 97 | 1.5 | 15 | -22/-30 |
| | 3 | 120 | 67 | 0.57 | .85 | 1.27 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 67 | 0.25 | .85 | 1.27 | 98 | 1.5 | 10 | -22/-30 |
| F32T8/25W | 2 | 120 | 51 | 0.43 | .97 | 1.90 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 51 | 0.19 | .97 | 1.90 | 97 | 1.5 | 15 | -22/-30 |
| | 3 | 120 | 45 | 0.40 | .86 | 1.91 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 45 | 0.18 | .86 | 1.91 | 97 | 1.5 | 15 | -22/-30 |
| | 2 | 120 | 35 | 0.30 | .99 | 2.83 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 36 | 0.14 | .99 | 2.75 | 95 | 1.5 | 15 | -22/-30 |
| F17T8 | 3 | 120 | 36 | 0.31 | .77 | 2.14 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 36 | 0.15 | .77 | 2.14 | 96 | 1.5 | 15 | -22/-30 |
| | 2 | 120 | 28 | 0.25 | .86 | 3.07 | 99 | 1.5 | 15 | -22/-30 |
| | 2 | 277 | 28 | 0.12 | .86 | 3.07 | 93 | 1.5 | 20 | -22/-30 |
| | 3 | 120 | 68 | 0.58 | .78 | 1.15 | 99 | 1.5 | 10 | 0/-18 |
| | 3 | 277 | 67 | 0.25 | .78 | 1.16 | 97 | 1.5 | 10 | 0/-18 |
| FE15T8 | 2 | 120 | 52 | 0.45 | .89 | 1.71 | 99 | 1.5 | 10 | 0/-18 |
| | 2 | 277 | 52 | 0.20 | .89 | 1.71 | 96 | 1.5 | 15 | 0/-18 |

Safety and performance



UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

71422 – GE332MAXP-N+

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency
3 or 2 – F32T8 120 to 277 “N+” 1.0 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic - High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal-High |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |






| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |


| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 71422 | | | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1C – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.8lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F32T8 | 3 | 120 | 93 | 0.78 | 1.01 | 1.09 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 92 | 0.33 | 1.01 | 1.10 | 98 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 73 | 0.61 | 1.13 | 1.55 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 73 | 0.26 | 1.13 | 1.55 | 97 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 87 | 0.73 | 1.00 | 1.15 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 85 | 0.32 | 1.00 | 1.18 | 98 | 1.5 | 10 | -22/-30 | |
| F32T8/WM | 2 | 120 | 62 | 0.52 | 1.10 | 1.77 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 61 | 0.23 | 1.10 | 1.80 | 97 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 83 | 0.69 | 1.00 | 1.20 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 82 | 0.30 | 1.00 | 1.22 | 98 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 61 | 0.50 | 1.08 | 1.77 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 60 | 0.22 | 1.08 | 1.80 | 97 | 1.5 | 10 | -22/-30 | |
| F28T8 | 3 | 120 | 77 | 0.64 | 1.01 | 1.31 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 76 | 0.27 | 1.01 | 1.33 | 98 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 59 | 0.49 | 1.01 | 1.71 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 58 | 0.21 | 1.01 | 1.74 | 96 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 77 | 0.64 | 1.01 | 1.31 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 76 | 0.27 | 1.01 | 1.33 | 98 | 1.5 | 10 | -22/-30 | |
| F25T8 | 2 | 120 | 59 | 0.49 | 1.14 | 1.93 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 58 | 0.21 | 1.14 | 1.97 | 96 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 54 | 0.46 | 1.03 | 1.91 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 54 | 0.20 | 1.03 | 1.91 | 96 | 1.5 | 15 | -22/-30 | |
| | 2 | 120 | 42 | 0.35 | 1.03 | 2.45 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 42 | 0.16 | 1.03 | 2.45 | 94 | 1.5 | 15 | -22/-30 | |
| F17T8 | 3 | 120 | 44 | 0.37 | 1.00 | 2.27 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 44 | 0.17 | 1.00 | 2.27 | 95 | 1.5 | 15 | -22/-30 | |
| | 2 | 120 | 34 | 0.30 | 1.00 | 2.94 | 99 | 1.5 | 15 | -22/-30 | |
| | 2 | 277 | 35 | 0.14 | 1.00 | 2.86 | 92 | 1.5 | 15 | -22/-30 | |
| | 3 | 120 | 80 | 0.67 | .93 | 1.16 | 99 | 1.5 | 10 | 0/-18 | |
| | 3 | 277 | 79 | 0.29 | .93 | 1.18 | 98 | 1.5 | 10 | 0/-18 | |
| FE15T8 | 2 | 120 | 60 | 0.51 | .93 | 1.55 | 99 | 1.5 | 10 | 0/-18 | |
| | 2 | 277 | 60 | 0.22 | .93 | 1.55 | 97 | 1.5 | 10 | 0/-18 | |

Safety and performance


 UL Class P
  UL Type 1 Outdoor
  UL Type CC
  UL Type HL
 FCC – CLASS A Non-Consumer


 Product is compliant with material restriction requirements of RoHS

Ballasts
T8 Instant Start
T8 Programmed Start
T8/T5 Dimming
T5 Electronic Programmed Start
T12 Electronic & High Output
Magnetic
Sign
Compact Fluorescent
HID Electronic & Electromagnetic

UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

71723 – GE432MAXP-H/ULTRA

UltraMax® P-Series Instant Start

Multi-Voltage High-Efficiency

4 or 3 – F32T8 120 to 277 “H” 1.18 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

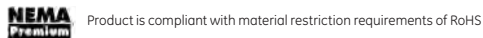
| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 71723 | 71724 | | |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1D – see example on Page 10-61 | |
| Case dimensions – Ref Drawing - A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.05 in (27 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.4lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Red & Blue | 31 in (787 mm) |
| Yellow | 39 in (991 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 4 | 120 | 148 | 1.30 | 1.18 | .80 | 99 | 1.4 | 10 | -22/-30 |
| | 4 | 277 | 146 | 0.55 | 1.18 | .81 | 98 | 1.4 | 10 | -22/-30 |
| | 3 | 120 | 119 | 1.07 | 1.28 | 1.08 | 99 | 1.4 | 10 | -22/-30 |
| | 3 | 277 | 117 | 0.46 | 1.28 | 1.09 | 97 | 1.4 | 15 | -22/-30 |
| | 4 | 120 | 139 | 1.21 | 1.18 | .85 | 99 | 1.4 | 10 | 50/10 |
| | 4 | 277 | 136 | 0.51 | 1.18 | .87 | 97 | 1.4 | 10 | 50/10 |
| F32T8/WM | 3 | 120 | 113 | 0.99 | 1.25 | 1.11 | 99 | 1.4 | 10 | 50/10 |
| | 3 | 277 | 112 | 0.41 | 1.25 | 1.12 | 97 | 1.4 | 16 | 50/10 |
| | 4 | 120 | 127 | 1.10 | 1.18 | .93 | 99 | 1.4 | 10 | 50/10 |
| | 4 | 277 | 125 | 0.48 | 1.18 | .94 | 98 | 1.4 | 10 | 50/10 |
| | 3 | 120 | 105 | 0.91 | 1.24 | 1.18 | 99 | 1.4 | 10 | 50/10 |
| | 3 | 277 | 102 | 0.40 | 1.24 | 1.22 | 97 | 1.4 | 16 | 50/10 |
| F28T8 | 4 | 120 | 120 | 1.06 | 1.18 | .98 | 99 | 1.4 | 10 | 60/16 |
| | 4 | 277 | 116 | 0.45 | 1.18 | 1.02 | 98 | 1.4 | 10 | 60/16 |
| | 3 | 120 | 99 | 0.88 | 1.24 | 1.25 | 99 | 1.4 | 10 | 60/16 |
| | 3 | 277 | 95 | 0.38 | 1.24 | 1.31 | 97 | 1.4 | 10 | 60/16 |
| | 4 | 120 | 119 | 0.45 | 1.16 | .97 | 97 | 1.4 | 10 | -22/-30 |
| | 4 | 277 | 121 | 1.06 | 1.16 | .96 | 99 | 1.4 | 10 | -22/-30 |
| F25T8 | 3 | 120 | 101 | 0.87 | 1.27 | 1.26 | 99 | 1.4 | 10 | -22/-30 |
| | 3 | 277 | 100 | 0.38 | 1.27 | 1.27 | 96 | 1.4 | 17 | -22/-30 |
| | 4 | 120 | 79 | 0.62 | 1.16 | 1.47 | 99 | 1.4 | 10 | -22/-30 |
| | 4 | 277 | 78 | 0.31 | 1.16 | 1.49 | 96 | 1.4 | 10 | -22/-30 |
| | 3 | 120 | 62 | 0.57 | 1.25 | 2.02 | 99 | 1.4 | 10 | -22/-30 |
| | 3 | 277 | 62 | 0.27 | 1.25 | 2.02 | 95 | 1.4 | 21 | -22/-30 |
| F17T8 | 4 | 120 | 62 | 0.54 | 1.03 | 1.66 | 99 | 1.4 | 10 | 0/-18 |
| | 4 | 277 | 62 | 0.26 | 1.03 | 1.66 | 95 | 1.4 | 20 | 0/-18 |
| | 3 | 120 | 51 | 0.45 | 1.12 | 2.20 | 99 | 1.4 | 10 | 0/-18 |
| | 3 | 277 | 52 | 0.22 | 1.12 | 2.15 | 92 | 1.4 | 20 | 0/-18 |
| | 3 | 120 | 146 | 1.27 | 1.22 | .84 | 99 | 1.4 | 10 | -22/-30 |
| | 3 | 277 | 142 | 0.54 | 1.22 | .86 | 97 | 1.4 | 14 | -22/-30 |
| F40T8 | 4 | 120 | 125 | 1.10 | 1.11 | .89 | 99 | 1.4 | 10 | 0/-18 |
| | 4 | 277 | 122 | 0.47 | 1.11 | .91 | 97 | 1.4 | 14 | 0/-18 |
| | 3 | 120 | 101 | 0.90 | 1.22 | 1.21 | 99 | 1.4 | 10 | 0/-18 |
| | 3 | 277 | 100 | 0.39 | 1.22 | 1.22 | 97 | 1.4 | 17 | 0/-18 |

Safety and performance



UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

78625 – GE432MAXP-L/ULTRA

UltraMax® P-Series Instant Start

Multi-Voltage High-Efficiency

4 or 3 – F32T8 120 to 277 “L” .77 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

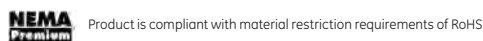
| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 78625 | | | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1D – see example on Page 10-61 | |
| Case dimensions – Ref Drawing - A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.9 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Red & Blue | 31 in (787 mm) |
| Yellow | 39 in (991 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F32T8 | 4 | 120 | 98 | 0.82 | .78 | .80 | 99 | 1.5 | 10 | -22/-30 | |
| | 4 | 277 | 96 | 0.35 | .78 | .81 | 98 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 84 | 0.72 | .88 | 1.05 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 83 | 0.31 | .88 | 1.06 | 98 | 1.5 | 10 | -22/-30 | |
| | 4 | 120 | 92 | 0.79 | .76 | .83 | 99 | 1.5 | 10 | -22/-30 | |
| | 4 | 277 | 91 | 0.34 | .76 | .84 | 98 | 1.5 | 10 | -22/-30 | |
| F32T8/WM | 3 | 120 | 77 | 0.66 | .83 | 1.08 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 76 | 0.28 | .83 | 1.09 | 97 | 1.5 | 10 | -22/-30 | |
| | 4 | 120 | 85 | 0.72 | .75 | .88 | 99 | 1.5 | 10 | -22/-30 | |
| | 4 | 277 | 84 | 0.31 | .75 | .89 | 98 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 68 | 0.59 | .81 | 1.19 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 67 | 0.26 | .81 | 1.21 | 97 | 1.5 | 10 | -22/-30 | |
| F28T8 | 4 | 120 | 78 | 0.66 | .77 | .99 | 99 | 1.5 | 10 | -22/-30 | |
| | 4 | 277 | 77 | 0.29 | .77 | 1.00 | 98 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 62 | 0.52 | .81 | 1.31 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 61 | 0.22 | .81 | 1.33 | 97 | 1.5 | 10 | -22/-30 | |
| | 4 | 120 | 80 | 0.67 | .76 | .95 | 99 | 1.5 | 10 | -22/-30 | |
| | 4 | 277 | 79 | 0.29 | .76 | .96 | 98 | 1.5 | 10 | -22/-30 | |
| F25T8 | 3 | 120 | 66 | 0.55 | .84 | 1.27 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 65 | 0.25 | .84 | 1.29 | 97 | 1.5 | 10 | -22/-30 | |
| | 4 | 120 | 56 | 0.47 | .79 | 1.41 | 99 | 1.5 | 10 | -22/-30 | |
| | 4 | 277 | 56 | 0.21 | .79 | 1.41 | 96 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 47 | 0.40 | .86 | 1.83 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 47 | 0.18 | .86 | 1.83 | 95 | 1.5 | 15 | -22/-30 | |
| F17T8 | 4 | 120 | 44 | 0.38 | .76 | 1.73 | 99 | 1.5 | 10 | -22/-30 | |
| | 4 | 277 | 44 | 0.18 | .76 | 1.73 | 95 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 36 | 0.32 | .76 | 2.11 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 37 | 0.15 | .76 | 2.05 | 93 | 1.5 | 15 | -22/-30 | |
| | 4 | 120 | 81 | 0.69 | .76 | .94 | 99 | 1.5 | 10 | 0/-18 | |
| | 4 | 277 | 81 | 0.30 | .76 | .94 | 98 | 1.5 | 10 | 0/-18 | |
| FE15T8 | 3 | 120 | 68 | 0.58 | .76 | 1.12 | 99 | 1.5 | 10 | 0/-18 | |
| | 3 | 277 | 67 | 0.25 | .76 | 1.13 | 97 | 1.5 | 10 | 0/-18 | |

Safety and performance



UltraMax® Professional Series

Instant Start Multi-Voltage 120–277V High-Efficiency

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

78627 – GE432MAXP-N/ULTRA

UltraMax® P-Series Instant Start

Multi-Voltage High-Efficiency

4 or 3 – F32T8 120 to 277 “N” .87 BF UltraMax P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

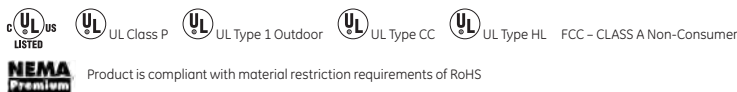
| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 78627 | | 71730 | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1D – see example on Page 10-61 | |
| Case dimensions – Ref Drawing – A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.9 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Red & Blue | 31 in (787 mm) |
| Yellow | 39 in (991 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 4 | 120 | 110 | 0.93 | .88 | .80 | 99 | 1.5 | 10 | -22/-30 |
| | 4 | 277 | 108 | 0.4 | .88 | .81 | 98 | 1.5 | 10 | -22/-30 |
| | 3 | 120 | 92 | 0.78 | .96 | 1.04 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 91 | 0.34 | .96 | 1.05 | 98 | 1.5 | 10 | -22/-30 |
| | 4 | 120 | 103 | 0.87 | .88 | .85 | 99 | 1.5 | 10 | -22/-30 |
| | 4 | 277 | 101 | 0.37 | .88 | .87 | 98 | 1.5 | 10 | -22/-30 |
| F32T8/WM | 3 | 120 | 85 | 0.73 | .97 | 1.14 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 84 | 0.31 | .97 | 1.15 | 98 | 1.5 | 10 | -22/-30 |
| | 4 | 120 | 94 | 0.80 | .84 | .89 | 99 | 1.5 | 10 | -22/-30 |
| F28T8 | 4 | 277 | 92 | 0.34 | .84 | .91 | 98 | 1.5 | 10 | -22/-30 |
| | 3 | 120 | 77 | 0.66 | .93 | 1.21 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 76 | 0.29 | .93 | 1.22 | 98 | 1.5 | 10 | -22/-30 |
| | 4 | 120 | 87 | 0.73 | .87 | 1.00 | 99 | 1.5 | 10 | -22/-30 |
| | 4 | 277 | 87 | 0.32 | .87 | 1.00 | 98 | 1.5 | 10 | -22/-30 |
| | 3 | 120 | 72 | 0.60 | .89 | 1.24 | 99 | 1.5 | 10 | -22/-30 |
| F32T8/25W | 3 | 277 | 71 | 0.26 | .89 | 1.25 | 97 | 1.5 | 10 | -22/-30 |
| | 4 | 120 | 89 | 0.74 | .86 | .97 | 99 | 1.5 | 10 | -22/-30 |
| | 4 | 277 | 88 | 0.32 | .86 | .98 | 98 | 1.5 | 10 | -22/-30 |
| F25T8 | 3 | 120 | 74 | 0.62 | .97 | 1.31 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 73 | 0.27 | .97 | 1.33 | 97 | 1.5 | 10 | -22/-30 |
| | 4 | 120 | 61 | 0.53 | .89 | 1.46 | 99 | 1.5 | 10 | -22/-30 |
| | 4 | 277 | 61 | 0.23 | .89 | 1.46 | 97 | 1.5 | 10 | -22/-30 |
| F17T8 | 3 | 120 | 51 | 0.44 | .99 | 1.94 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 51 | 0.20 | .99 | 1.94 | 96 | 1.5 | 10 | -22/-30 |
| | 4 | 120 | 48 | 0.42 | .77 | 1.60 | 99 | 1.5 | 10 | -22/-30 |
| FE15T8 | 4 | 277 | 48 | 0.19 | .77 | 1.60 | 96 | 1.5 | 10 | -22/-30 |
| | 3 | 120 | 41 | 0.35 | .85 | 2.07 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 40 | 0.17 | .85 | 2.13 | 94 | 1.5 | 10 | -22/-30 |
| | 4 | 120 | 91 | 0.78 | .79 | .87 | 99 | 1.5 | 10 | 0/-18 |
| | 4 | 277 | 90 | 0.33 | .79 | .88 | 98 | 1.5 | 10 | 0/-18 |
| | 3 | 120 | 76 | 0.65 | .87 | 1.14 | 99 | 1.5 | 10 | 0/-18 |
| F25T12 | 3 | 277 | 75 | 0.28 | .87 | 1.16 | 98 | 1.5 | 10 | 0/-18 |

Safety and performance



UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

71423 – GE432MAXP-N+

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency
4 or 3 – F32T8 120 to 277 “N+” 1.0 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal-High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

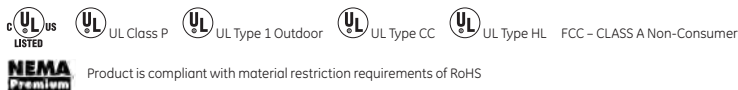
| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 71423 | | | |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1D – see example on Page 10-61 | |
| Case dimensions – Ref Drawing – A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 2.4 in (61 mm) |
| Height (H) | 1.6 in (40 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.7 in (43 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 2.16lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 12 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Red & Blue | 31 in (787 mm) |
| Yellow | 47 in (1194 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F32T8 | 4 | 120 | 124 | 1.03 | 1.00 | .81 | 99 | 1.5 | 10 | -22/-30 | |
| | 4 | 277 | 121 | 0.45 | 1.00 | .83 | 98 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 97 | 0.81 | 0.97 | 1.00 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 113 | 0.45 | 1.15 | 1.02 | 97 | 1.5 | 10 | -22/-30 | |
| | 4 | 120 | 119 | 1 | 1.00 | .84 | 99 | 1.5 | 10 | 60/16 | |
| | 4 | 277 | 117 | 0.44 | 1.00 | .86 | 98 | 1.5 | 10 | 60/16 | |
| F32T8/WM | 3 | 120 | 92 | 0.77 | .99 | 1.08 | 99 | 1.5 | 10 | 60/16 | |
| | 3 | 277 | 92 | 0.35 | .99 | 1.08 | 97 | 1.5 | 10 | 60/16 | |
| | 4 | 120 | 114 | 0.95 | 1.00 | .88 | 99 | 1.5 | 10 | 60/16 | |
| | 4 | 277 | 96 | 0.36 | 1.00 | 1.04 | 97 | 1.5 | 10 | 60/16 | |
| | 3 | 120 | 89 | 0.74 | .99 | 1.12 | 99 | 1.5 | 10 | 60/16 | |
| | 3 | 277 | 88 | 0.33 | .99 | 1.13 | 96 | 1.5 | 10 | 60/16 | |
| F28T8 | 4 | 120 | 110 | 0.92 | .96 | .87 | 99 | 1.5 | 10 | 0/-18 | |
| | 4 | 277 | 108 | 0.14 | .96 | .89 | 97 | 1.5 | 10 | 0/-18 | |
| | 3 | 120 | 86 | 0.72 | .97 | 1.13 | 99 | 1.5 | 10 | 0/-18 | |
| | 3 | 277 | 86 | 0.32 | .97 | 1.13 | 96 | 1.5 | 10 | 0/-18 | |

Safety and performance



UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

74117 – GE632MAXP-H90

UltraMax® P-Series Instant Start

Multi-Voltage High-Efficiency

6 or 5 – F32T8 120 to 277 "H" 1.18 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>95%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- High temperature 90°C max case
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A(20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-----------|
| Supply Current Frequency | 50Hz/60Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74117 | | | |

| Dimensions | |
|---|-------------------|
| Wiring diagram – LFL 6H – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 11.75 in (299 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 3.1lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Red & Blue | 34 in (864 mm) |
| Yellow | 36 in (914 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 6 | 120 | 221 | 1.94 | 1.18 | .53 | 99 | 1.5 | 10 | -20/-29 |
| | 6 | 277 | 215 | 0.82 | 1.18 | .55 | 97 | 1.5 | 10 | -20/-29 |
| | 5 | 120 | 197 | 1.73 | 1.25 | .63 | 99 | 1.5 | 10 | -20/-29 |
| | 5 | 277 | 192 | 0.73 | 1.25 | .65 | 97 | 1.5 | 13 | -20/-29 |
| | 6 | 120 | 205 | 1.8 | 1.18 | .58 | 99 | 1.5 | 10 | 60/16 |
| | 6 | 277 | 200 | 0.76 | 1.18 | .59 | 97 | 1.5 | 10 | 60/16 |
| F32T8/WM | 5 | 120 | 182 | 1.6 | 1.23 | .68 | 99 | 1.5 | 10 | 60/16 |
| | 5 | 277 | 178 | 0.68 | 1.23 | .69 | 96 | 1.5 | 16 | 60/16 |
| | 6 | 120 | 187 | 1.64 | 1.18 | .63 | 99 | 1.5 | 10 | 60/16 |
| | 6 | 277 | 184 | 0.7 | 1.18 | .64 | 96 | 1.5 | 13 | 60/16 |
| | 5 | 120 | 166 | 1.45 | 1.20 | .72 | 99 | 1.5 | 10 | 60/16 |
| | 5 | 277 | 164 | 0.63 | 1.20 | .73 | 96 | 1.5 | 16 | 60/16 |
| F28T8 | 6 | 120 | 178 | 1.57 | 1.18 | .66 | 99 | 1.5 | 10 | -20/-29 |
| | 6 | 277 | 176 | 0.68 | 1.18 | .67 | 96 | 1.5 | 16 | -20/-29 |
| | 5 | 120 | 159 | 1.4 | 1.16 | .73 | 99 | 1.5 | 10 | -20/-29 |
| | 5 | 277 | 157 | 0.61 | 1.16 | .74 | 95 | 1.5 | 18 | -20/-29 |
| | 6 | 120 | 122 | 1.08 | 1.17 | .96 | 99 | 1.5 | 10 | -20/-29 |
| | 6 | 277 | 121 | 0.5 | 1.17 | .97 | 90 | 1.5 | 24 | -20/-29 |
| F17T8 | 5 | 120 | 107 | 0.95 | 1.24 | 1.16 | 99 | 1.5 | 10 | -20/-29 |
| | 5 | 277 | 106 | 0.44 | 1.24 | 1.17 | 88 | 1.5 | 26 | -20/-29 |
| | 5 | 120 | 231 | 2.03 | 1.18 | .51 | 99 | 1.5 | 10 | 0/-18 |
| F40T8 | 5 | 277 | 225 | 0.86 | 1.18 | .52 | 97 | 1.5 | 10 | 0/-18 |

Safety and performance



NEMA Premium Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For 46–59W 4ft–8ft Slimline Lamps

49767 – GE259MAXP-N/ULTRA

UltraMax® P-Series Instant Start

Multi-Voltage High-Efficiency

2 or 1 – F96T8 120 to 277 “N” 0.87 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- Anti-striation control for better light quality
- Cold temperature 0°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20–24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |


| Order information | | | |
|-------------------|-------------|-------------------|---------|
| 10 Pack 49767 | Pallet Pack | DIY Pack 23954 | IP Pack |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1B – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.4 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 22 in (559 mm) |
| White | 22 in (559 mm) |
| Blue | 46 in (1168 mm) |
| Red | 78 in (1981 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F96T8 | 2 | 120 | 107 | 0.91 | .87 | .81 | 99 | 1.7 | 10 | 0/-18 | |
| | 2 | 277 | 105 | 0.4 | .87 | .83 | 98 | 1.7 | 15 | 0/-18 | |
| | 1 | 120 | 62 | 0.53 | .87 | 1.40 | 99 | 1.7 | 10 | 0/-18 | |
| | 1 | 277 | 62 | 0.24 | .87 | 1.40 | 97 | 1.7 | 20 | 0/-18 | |
| | 2 | 120 | 102 | 0.87 | .87 | .85 | 99 | 1.7 | 10 | 50/10 | |
| | 2 | 277 | 100 | 0.38 | .87 | .87 | 98 | 1.7 | 15 | 50/10 | |
| F96T8/WM | 1 | 120 | 59 | 0.5 | .87 | 1.47 | 99 | 1.7 | 10 | 50/10 | |
| | 1 | 277 | 59 | 0.23 | .87 | 1.47 | 97 | 1.7 | 20 | 50/10 | |
| | 2 | 120 | 85 | 0.78 | .89 | 1.05 | 99 | 1.7 | 10 | 50/10 | |
| | 2 | 277 | 84 | 0.32 | .89 | 1.06 | 98 | 1.7 | 15 | 50/10 | |
| | 1 | 120 | 59 | 0.5 | .87 | 1.47 | 99 | 1.7 | 10 | 50/10 | |
| | 1 | 277 | 59 | 0.23 | .87 | 1.47 | 97 | 1.7 | 20 | 50/10 | |
| F96T8/WMP | 2 | 120 | 79 | 0.72 | .89 | 1.13 | 99 | 1.7 | 10 | 0/-18 | |
| | 2 | 277 | 78 | 0.29 | .89 | 1.14 | 98 | 1.7 | 13 | 0/-18 | |
| | 1 | 120 | 44 | 0.39 | .87 | 1.98 | 99 | 1.7 | 10 | 0/-18 | |
| | 1 | 277 | 44 | 0.17 | .87 | 1.98 | 96 | 1.7 | 20 | 0/-18 | |

Safety and performance

 UL LISTED
  UL Class P
  UL Type 1 Outdoor
  UL Type HL
 FCC – CLASS A Non-Consumer


 Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For 46-59W 4ft-8ft Slimline Lamps

73199 – GE259MAXP-L/ULTRA

UltraMax® P-Series Instant Start

Multi-Voltage High-Efficiency

2 or 1 – F96T8 120 to 277 “L” 0.77 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- Anti-striation control for better light quality
- Cold temperature 0°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

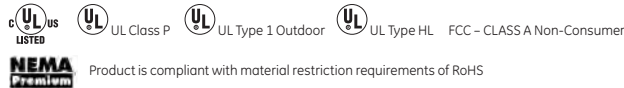
| Electrical characteristics | |
|----------------------------|------------|
| Supply Current Frequency | 50Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 73199 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F96T8 | 2 | 120 | 95 | 0.81 | .77 | .81 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 94 | 0.35 | .77 | .82 | 99 | 1.7 | 15 | 0/-18 |
| | 1 | 120 | 59 | 0.5 | .92 | 1.56 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 59 | 0.22 | .92 | 1.56 | 97 | 1.7 | 20 | 0/-18 |
| F96T8/WM | 2 | 120 | 93 | 0.79 | .77 | .83 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 91 | 0.34 | .77 | .85 | 98 | 1.7 | 15 | 60/16 |
| | 1 | 120 | 58 | 0.48 | .92 | 1.59 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 58 | 0.21 | .92 | 1.59 | 97 | 1.7 | 20 | 60/16 |
| F96T8/WMP | 2 | 120 | 89 | 0.74 | .77 | .87 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 87 | 0.32 | .77 | .89 | 98 | 1.7 | 15 | 60/16 |
| | 1 | 120 | 54 | 0.5 | .92 | 1.70 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 54 | 0.2 | .92 | 1.70 | 96 | 1.7 | 20 | 60/16 |
| F72T8 | 2 | 120 | 65 | 0.54 | .79 | 1.22 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 64 | 0.24 | .79 | 1.23 | 97 | 1.7 | 13 | 0/-18 |
| | 1 | 120 | 41 | 0.34 | .94 | 2.29 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 41 | 0.16 | .94 | 2.29 | 97 | 1.7 | 20 | 0/-18 |

Safety and performance



UltraMax® Professional Series MultiVolt High Output 120-277V T8 Instant Start Ballasts For 44-86W 4ft-8ft HO Lamps

63888 – GE286MAXP-HO-N

UltraMax® P-Series Multivolt High Output 120V-277V

2 or 1 – F96T8HO IS 120 to 277 “N” 0.87 BF

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 63888 | | | |

Dimensions

Wiring diagram – LFL 1B – see example on Page 10-61

Case dimensions – Ref Drawing - A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.05 in (27 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------|-----------------|
| Black | 22 in (559 mm) |
| White | 22 in (559 mm) |
| Blue | 46 in (1168 mm) |
| Red | 78 in (1981 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F96T849W | 2 | 120 | 111 | 0.95 | 1.37 | 1.23 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 110 | 0.41 | 1.37 | 1.25 | 97 | 1.7 | 10 | -22/-30 |
| | 1 | 120 | 70 | 0.58 | 1.63 | 2.33 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 70 | 0.26 | 1.63 | 2.33 | 95 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 124 | 1.10 | 1.37 | 1.10 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 122 | 0.46 | 1.37 | 1.12 | 98 | 1.7 | 10 | -22/-30 |
| F96T8WMP | 1 | 120 | 77 | 0.68 | 1.63 | 2.11 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 77 | 0.30 | 1.63 | 2.11 | 96 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 135 | 1.18 | 1.14 | .85 | 99 | 1.7 | 10 | -22/-30 |
| F96T8WM | 2 | 277 | 133 | 0.50 | 1.15 | .86 | 98 | 1.7 | 10 | -22/-30 |
| | 1 | 120 | 84 | 0.73 | 1.35 | 1.61 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 84 | 0.32 | 1.35 | 1.61 | 96 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 145 | 1.25 | .78 | .54 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 142 | 0.54 | .78 | .55 | 98 | 1.7 | 10 | -22/-30 |
| F96T8HO | 1 | 120 | 91 | 0.78 | .91 | 1.01 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 90 | 0.35 | .92 | 1.02 | 97 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 142 | 1.24 | 1.15 | .81 | 99 | 1.7 | 10 | -22/-30 |
| F96T8 | 2 | 277 | 140 | 0.52 | 1.15 | .82 | 98 | 1.7 | 10 | -22/-30 |
| | 1 | 120 | 88 | 0.76 | 1.35 | 1.54 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 87 | 0.34 | 1.36 | 1.56 | 97 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 115 | 1.02 | .82 | .71 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 114 | 0.43 | .82 | .72 | 97 | 1.7 | 16 | -22/-30 |
| F72T8HO | 1 | 120 | 73 | 0.64 | .95 | 1.30 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 72 | 0.28 | .95 | 1.31 | 95 | 1.7 | 22 | -22/-30 |
| | 2 | 120 | 95 | 0.84 | .81 | .86 | 99 | 1.7 | 10 | -22/-30 |
| F60T8HO | 2 | 277 | 92 | 0.35 | .81 | .88 | 97 | 1.7 | 18 | -22/-30 |
| | 1 | 120 | 60 | 0.53 | .95 | 1.58 | 99 | 1.7 | 11 | -22/-30 |
| | 1 | 277 | 62 | 0.24 | .95 | 1.53 | 94 | 1.7 | 23 | -22/-30 |
| | 2 | 120 | 78 | 0.68 | .79 | 1.01 | 99 | 1.7 | 10 | -22/-30 |
| F58T8 | 2 | 277 | 78 | 0.30 | .79 | 1.01 | 96 | 1.7 | 10 | -22/-30 |
| | 1 | 120 | 49 | 0.43 | .93 | 1.91 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 50 | 0.20 | .93 | 1.87 | 93 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 78 | 0.70 | .82 | 1.05 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 77 | 0.30 | .82 | 1.06 | 96 | 1.7 | 21 | -22/-30 |
| F48T8HO | 1 | 120 | 51 | 0.45 | .95 | 1.87 | 99 | 1.7 | 13 | -22/-30 |
| | 1 | 277 | 51 | 0.20 | .95 | 1.87 | 93 | 1.7 | 26 | -22/-30 |
| | 2 | 120 | 97 | 0.85 | 1.20 | 1.24 | 99 | 1.7 | 10 | -22/-30 |
| F40T8 | 2 | 277 | 96 | 0.37 | 1.20 | 1.25 | 97 | 1.7 | 10 | -22/-30 |
| | 1 | 120 | 62 | 0.52 | 1.39 | 2.24 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 62 | 0.24 | 1.37 | 2.21 | 95 | 1.7 | 10 | -22/-30 |

Safety and performance



UL Class P



UL Type 1 Outdoor



UL Type HL

FCC – CLASS A Non-Consumer

Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series 347V High-Efficiency T8 Instant Start Ballasts

74093 – GE232MAXP347-N

UltraMax® P-Series 347V High-Efficiency

2 or 1 – F32T8 347V “N” 0.87 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Instant start ballast for long lamp starting cycles and low initial cost
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature
- Parallel lamp operation means system maintenance is easier to manage

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |





| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 18 – see example on Page 10-61 | |
| Case dimensions – Ref Drawing – A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.04 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |


| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74093 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 2 | 347 | 53 | 0.15 | 0.87 | 1.65 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 347 | 34 | 0.10 | 1.02 | 3.03 | 97 | 1.7 | 10 | -22/-30 |
| F32T8/WM | 2 | 347 | 50 | 0.15 | 0.86 | 1.72 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 32 | 0.09 | 1.02 | 3.20 | 97 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 347 | 46 | 0.14 | 0.84 | 1.81 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 30 | 0.09 | 1.01 | 3.38 | 97 | 1.7 | 10 | 60/16 |
| F32T8/25W | 2 | 347 | 42 | 0.12 | 0.84 | 2.00 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 41 | 0.12 | 0.88 | 2.12 | 98 | 1.7 | 10 | -22/-30 |
| F25T8 | 2 | 347 | 26 | 0.08 | 1.03 | 3.89 | 90 | 1.7 | 25 | -22/-30 |
| | 1 | 347 | 35 | 0.11 | 0.88 | 2.51 | 98 | 1.7 | 10 | 60/16 |
| F25T8/WM | 2 | 347 | 30 | 0.09 | 0.83 | 2.78 | 96 | 1.7 | 10 | -22/-30 |
| | 1 | 347 | 20 | 0.07 | 0.98 | 5.00 | 80 | 1.7 | 50 | -22/-30 |
| F17T8 | 2 | 347 | 25 | 0.08 | 0.83 | 3.32 | 97 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 24 | 0.08 | 0.76 | 3.19 | 88 | 1.7 | 32 | -22/-30 |
| FE15T8 | 2 | 347 | 16 | 0.06 | 0.88 | 5.52 | 77 | 1.7 | 69 | -22/-30 |
| | 1 | 347 | 44 | 0.13 | 0.89 | 2.03 | 98 | 1.7 | 10 | -22/-30 |
| F25T12 | 1 | 347 | 29 | 0.09 | 1.08 | 3.76 | 96 | 1.7 | 10 | -22/-30 |

Safety and performance


 UL Class P
  UL Type 1 Outdoor
  UL Type HL
 ICES-005 for EMI and RFI
 FCC – CLASS A Non-Consumer


 ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991
 Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series 347V High-Efficiency T8 Instant Start Ballasts

67435 – GE232MAXP347-N+

UltraMax® P-Series 347V High-Efficiency

2 or 1 – F32T8 347V “N+” 1.0 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Instant start ballast for long lamp starting cycles and low initial cost
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature
- Parallel lamp operation means system maintenance is easier to manage

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal-High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 67435 | | | |

Dimensions

Wiring diagram – LFL 18 – see example on Page 10-61

Case dimensions – Ref Drawing – A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.04 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |






Lead lengths

| | |
|-------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 2 | 347 | 61 | 0.17 | 1.00 | 1.64 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 347 | 57 | 0.17 | .96 | 1.68 | 99 | 1.7 | 10 | 60/16 |
| F32T8/WM | 2 | 347 | 53 | 0.15 | .94 | 1.77 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 48 | 0.14 | .99 | 2.06 | 98 | 1.7 | 10 | -22/-30 |
| F28T8 | 2 | 347 | 34 | 0.11 | .94 | 2.76 | 91 | 1.7 | 29 | -22/-30 |
| | 1 | 347 | 25 | 0.08 | .85 | 3.40 | 88 | 1.7 | 46 | -22/-30 |
| F25T8 | 2 | 347 | 50 | 0.15 | 1.01 | 2.02 | 98 | 1.7 | 10 | -22/-30 |
| | 1 | 347 | | | | | | | | |
| F17T8 | 2 | 347 | | | | | | | | |
| | 1 | 347 | | | | | | | | |
| FE15T8 | 2 | 347 | | | | | | | | |
| | 1 | 347 | | | | | | | | |
| F25T12 | 2 | 347 | | | | | | | | |
| | 1 | 347 | | | | | | | | |

Safety and performance





 ICES-005 for EMI and RFI FCC – CLASS A Non-Consumer

 ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series 347V High-Efficiency T8 Instant Start Ballasts

74094 – GE332MAXP347-N

UltraMax® P-Series 347V High-Efficiency

3 or 2 – F32T8 347V “N” 0.87 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Instant start ballast for long lamp starting cycles and low initial cost
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature
- Parallel lamp operation means system maintenance is easier to manage

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 74094 | | | |

Dimensions

Wiring diagram – LFL 1C – see example on Page 10-61

Case dimensions – Ref Drawing – A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.15lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 3 | 347 | 79 | 0.23 | 0.87 | 1.10 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 347 | 60 | 0.17 | 0.98 | 1.63 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 347 | 75 | 0.22 | 0.86 | 1.15 | 99 | 1.7 | 10 | 60/16 |
| F32T8/WM | 2 | 347 | 57 | 0.17 | 0.96 | 1.68 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 70 | 0.20 | 0.84 | 1.20 | 99 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 347 | 53 | 0.15 | 0.94 | 1.77 | 99 | 1.7 | 10 | 60/16 |
| F32T8/25W | 3 | 347 | 63 | 0.18 | 0.84 | 1.33 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 62 | 0.18 | 0.88 | 1.42 | 99 | 1.7 | 10 | -22/-30 |
| F25T8 | 2 | 347 | 48 | 0.14 | 0.99 | 2.06 | 99 | 1.7 | 10 | -22/-30 |
| F25T8/WM | 3 | 347 | 53 | 0.15 | 0.88 | 1.66 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 43 | 0.13 | 0.84 | 1.95 | 98 | 1.7 | 10 | -22/-30 |
| F17T8 | 2 | 347 | 34 | 0.11 | 0.94 | 2.76 | 91 | 1.7 | 29 | -22/-30 |
| F17T8/WM | 3 | 347 | 36 | 0.11 | 0.84 | 2.33 | 98 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 33 | 0.10 | 0.76 | 2.30 | 97 | 1.7 | 13 | -22/-30 |
| FE15T8 | 2 | 347 | 25 | 0.08 | 0.85 | 3.40 | 89 | 1.7 | 46 | -22/-30 |
| | 3 | 347 | 65 | 0.19 | 0.89 | 1.37 | 99 | 1.7 | 10 | -22/-30 |
| F25T12 | 2 | 347 | 50 | 0.15 | 1.01 | 2.02 | 99 | 1.7 | 10 | -22/-30 |

Safety and performance





 ICES-005 for EMI and RFI FCC – CLASS A Non-Consumer


 ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series 347V High-Efficiency T8 Instant Start Ballasts

74095 – GE432MAXP347-N

UltraMax® P-Series 347V High-Efficiency

4 or 3 – F32T8 347V “N” 0.87 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Instant start ballast for long lamp starting cycles and low initial cost
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature
- Parallel lamp operation means system maintenance is easier to manage

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 74095 | | | |

Dimensions

Wiring diagram – LFL 1D – see example on Page 10-61

Case dimensions – Ref Drawing -A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.15lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|------------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Red & Blue | 31 in (787 mm) |
| Yellow | 47 in (1194 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 4 | 347 | 106 | 0.30 | 0.88 | .83 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 347 | 87 | 0.25 | 0.94 | 1.08 | 99 | 1.7 | 10 | -22/-30 |
| | 4 | 347 | 100 | 0.29 | 0.86 | .86 | 99 | 1.7 | 10 | 60/16 |
| F32T8/W/M | 3 | 347 | 83 | 0.24 | 0.92 | 1.11 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 93 | 0.27 | 0.84 | .90 | 99 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 347 | 77 | 0.22 | 0.90 | 1.17 | 99 | 1.7 | 10 | 60/16 |
| F32T8/25W | 4 | 347 | 84 | 0.24 | 0.84 | 1.00 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 83 | 0.24 | 0.88 | 1.06 | 99 | 1.7 | 10 | -22/-30 |
| F25T8 | 3 | 347 | 69 | 0.20 | 0.95 | 1.38 | 99 | 1.7 | 10 | -22/-30 |
| F25T8/W/M | 4 | 347 | 71 | 0.21 | 0.88 | 1.24 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 58 | 0.17 | 0.83 | 1.43 | 99 | 1.7 | 10 | -22/-30 |
| F17T8 | 3 | 347 | 48 | 0.14 | 0.90 | 1.88 | 98 | 1.7 | 12 | -22/-30 |
| F17T8/W/M | 4 | 347 | 50 | 0.15 | 0.83 | 1.66 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 46 | 0.14 | 0.80 | 1.74 | 98 | 1.7 | 15 | -22/-30 |
| FE15T8 | 3 | 347 | 38 | 0.11 | 0.82 | 2.16 | 97 | 1.7 | 17 | -22/-30 |
| | 4 | 347 | 88 | 0.25 | 0.88 | 1.00 | 99 | 1.7 | 10 | -22/-30 |
| F25T12 | 3 | 347 | 73 | 0.21 | 0.96 | 1.32 | 99 | 1.7 | 10 | -22/-30 |

Safety and performance


 UL Class P
  UL Type 1 Outdoor
  UL Type HL
 ICES-005 for EMI and RFI
 FCC – CLASS A Non-Consumer


 ANSI - C82.11 - Cons 2002.
 ANSI - C62.41 - 1991
 Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series 347V High-Efficiency T8 Instant Start Ballasts

74096 – GE232MAXP347-L

UltraMax® P-Series 347V High-Efficiency

2 or 1 – F32T8 347V “L” 0.77 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Instant start ballast for long lamp starting cycles and low initial cost
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature
- Parallel lamp operation means system maintenance is easier to manage

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A(20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 74096 | | | |

Dimensions

Wiring diagram – LFL 18 – see example on Page 10-61

Case dimensions – Ref Drawing – A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.04 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |





Lead lengths

| | |
|-------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 2 | 347 | 48 | 0.14 | 0.77 | 1.60 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 347 | 30 | 0.10 | 0.90 | 3.00 | 87 | 1.7 | 37 | -22/-30 |
| F32T8/WM | 2 | 347 | 45 | 0.13 | 0.77 | 1.71 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 29 | 0.10 | 0.89 | 3.07 | 86 | 1.7 | 40 | 60/16 |
| F28T8 | 2 | 347 | 42 | 0.12 | 0.74 | 1.76 | 98 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 27 | 0.09 | 0.87 | 3.22 | 83 | 1.7 | 41 | 60/16 |
| F32T8/25W | 2 | 347 | 37 | 0.12 | 0.74 | 2.00 | 98 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 23 | 0.09 | 0.78 | 2.11 | 97 | 1.7 | 15 | -22/-30 |
| F25T8 | 2 | 347 | 31 | 0.10 | 0.78 | 2.52 | 97 | 1.7 | 15 | 60/16 |
| | 1 | 347 | 24 | 0.09 | 0.91 | 3.79 | 77 | 1.7 | 50 | -22/-30 |
| F25T8/WM | 2 | 347 | 27 | 0.09 | 0.70 | 2.59 | 84 | 1.7 | 50 | -22/-30 |
| | 1 | 347 | 18 | 0.08 | 0.86 | 4.78 | 68 | 1.7 | 53 | -22/-30 |
| F17T8 | 2 | 347 | 23 | 0.08 | 0.74 | 3.22 | 84 | 1.7 | 50 | 60/16 |
| | 1 | 347 | 22 | 0.08 | 0.67 | 3.05 | 79 | 1.7 | 54 | -22/-30 |
| FE15T8 | 2 | 347 | 15 | 0.06 | 0.77 | 5.13 | 66 | 1.7 | 56 | -22/-30 |
| | 1 | 347 | 39 | 0.11 | 0.77 | 1.97 | 98 | 1.7 | 10 | -22/-30 |
| F25T12 | 1 | 347 | 25 | 0.09 | 0.91 | 3.64 | 80 | 1.7 | 42 | -22/-30 |

Safety and performance


 UL Class P
  UL Type 1 Outdoor
  UL Type HL
 ICES-005 for EMI and RFI
 FCC – CLASS A Non-Consumer



ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series 347V High-Efficiency T8 Instant Start Ballasts

74097 – GE332MAXP347-L

UltraMax® P-Series 347V High-Efficiency

3 or 2 – F32T8 347V “L” 0.77 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Instant start ballast for long lamp starting cycles and low initial cost
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature
- Parallel lamp operation means system maintenance is easier to manage

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature [MAX] | 40°C (104°F) |
| Case Temperature [MAX] | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| | | | |
|----------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74097 | | | |

Dimensions

Wiring diagram – LFL 1C – see example on Page 10-61
 Case dimensions – Ref Drawing – A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.15 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |






Lead lengths

| | |
|-------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 3 | 347 | 71 | 0.21 | 0.77 | 1.08 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 347 | 55 | 0.16 | 0.86 | 1.56 | 99 | 1.7 | 10 | -22/-30 |
| F32T8/W/M | 3 | 347 | 68 | 0.20 | 0.76 | 1.12 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 52 | 0.15 | 0.85 | 1.63 | 99 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 347 | 63 | 0.18 | 0.74 | 1.17 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 48 | 0.14 | 0.82 | 1.71 | 99 | 1.7 | 10 | 60/16 |
| F32T8/25W | 3 | 347 | 55 | 0.16 | 0.73 | 1.33 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 43 | 0.13 | 0.86 | 2.00 | 98 | 1.7 | 10 | -22/-30 |
| F25T8 | 3 | 347 | 47 | 0.14 | 0.78 | 1.66 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 35 | 0.11 | 0.74 | 2.11 | 98 | 1.7 | 10 | -22/-30 |
| F17T8 | 3 | 347 | 40 | 0.12 | 0.74 | 1.85 | 98 | 1.7 | 10 | -22/-30 |
| | 2 | 347 | 31 | 0.10 | 0.82 | 2.65 | 89 | 1.7 | 38 | -22/-30 |
| F17T8/W/M | 3 | 347 | 35 | 0.11 | 0.74 | 2.11 | 98 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 30 | 0.09 | 0.67 | 2.23 | 96 | 1.7 | 13 | -22/-30 |
| FE15T8 | 3 | 347 | 58 | 0.17 | 0.77 | 1.33 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 347 | 23 | 0.07 | 0.74 | 3.22 | 93 | 1.7 | 19 | -22/-30 |
| F25T12 | 3 | 347 | 58 | 0.17 | 0.77 | 1.33 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 347 | 46 | 0.13 | 0.87 | 1.89 | 99 | 1.7 | 10 | -22/-30 |

Safety and performance





 ICES-005 for EMI and RFI FCC – CLASS A Non-Consumer

 ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series 347V High-Efficiency T8 Instant Start Ballasts

74098 – GE432MAXP347-L

UltraMax® P-Series 347V High-Efficiency

4 or 3 – F32T8 347V “L” 0.77 BF UltraMax®P

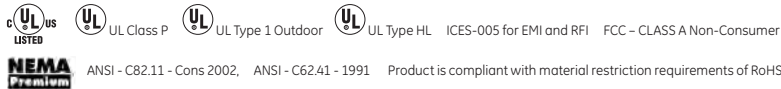
| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature [MAX] | 40°C (104°F) |
| Case Temperature [MAX] | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack 74098 | Pallet Pack | DIY Pack | IP Pack |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F32T8 | 4 | 347 | 96 | 0.28 | 0.77 | .80 | 99 | 1.7 | 10 | -22/-30 | |
| | 3 | 347 | 79 | 0.23 | 0.84 | 1.06 | 99 | 1.7 | 10 | -22/-30 | |
| F32T8/WM | 4 | 347 | 90 | 0.26 | 0.76 | .84 | 99 | 1.7 | 10 | 60/16 | |
| | 3 | 347 | 73 | 0.21 | 0.82 | 1.12 | 99 | 1.7 | 10 | 60/16 | |
| F28T8 | 4 | 347 | 84 | 0.24 | 0.74 | .88 | 99 | 1.7 | 10 | 60/16 | |
| | 3 | 347 | 69 | 0.20 | 0.81 | 1.17 | 99 | 1.7 | 10 | 60/16 | |
| F32T8/25W | 4 | 347 | 74 | 0.21 | 0.74 | 1.00 | 99 | 1.7 | 10 | 60/16 | |
| | 4 | 347 | 74 | 0.21 | 0.78 | 1.05 | 99 | 1.7 | 10 | -22/-30 | |
| F25T8 | 3 | 347 | 61 | 0.18 | 0.85 | 1.39 | 98 | 1.7 | 10 | -22/-30 | |
| | 4 | 347 | 63 | 0.18 | 0.78 | 1.24 | 99 | 1.7 | 10 | 60/16 | |
| F25T8/WM | 4 | 347 | 45 | 0.13 | 0.74 | 1.64 | 98 | 1.7 | 13 | -22/-30 | |
| | 3 | 347 | 36 | 0.11 | 0.80 | 2.22 | 92 | 1.7 | 33 | -22/-30 | |
| F17T8 | 4 | 347 | 38 | 0.12 | 0.74 | 1.95 | 98 | 1.7 | 13 | 60/16 | |
| | 4 | 347 | 42 | 0.12 | 0.68 | 1.62 | 97 | 1.7 | 15 | -22/-30 | |
| FE15T8 | 3 | 347 | 35 | 0.11 | 0.73 | 2.09 | 91 | 1.7 | 37 | -22/-30 | |
| | 4 | 347 | 78 | 0.23 | 0.77 | .99 | 99 | 1.7 | 10 | -22/-30 | |
| F25T12 | 3 | 347 | 65 | 0.19 | 0.84 | 1.29 | 99 | 1.7 | 10 | -22/-30 | |

Safety and performance



- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Instant start ballast for long lamp starting cycles and low initial cost
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature
- Parallel lamp operation means system maintenance is easier to manage

| Dimensions | |
|---|-----------------|
| Wiring diagram – LFL 1D – see example on Page 10-61 | |
| Case dimensions – Ref Drawing –A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.15 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Red & Blue | 31 in (787 mm) |
| Yellow | 47 in (1194 mm) |

UltraMax® Professional Series 347V High-Efficiency T8 Instant Start Ballasts

74109 – GE232MAXP347-H

UltraMax® P-Series 347V High-Efficiency

2 or 1 – F32T8 347V “H” 1.18 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Instant start ballast for long lamp starting cycles and low initial cost
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature
- Parallel lamp operation means system maintenance is easier to manage

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74109 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 2 | 347 | 70 | 0.20 | 1.18 | 1.69 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 347 | 44 | 0.13 | 1.32 | 3.00 | 99 | 1.7 | 10 | -22/-30 |
| F32T8/WM | 2 | 347 | 67 | 0.19 | 1.15 | 1.72 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 42 | 0.12 | 1.29 | 3.07 | 99 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 347 | 63 | 0.12 | 1.30 | 2.06 | 99 | 1.7 | 17 | 60/16 |
| | 1 | 347 | 39 | 0.18 | 1.30 | 3.33 | 99 | 1.7 | 17 | 60/16 |
| F32T8/25W | 2 | 347 | 56 | 0.16 | 1.12 | 2.00 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 55 | 0.16 | 1.16 | 2.11 | 99 | 1.7 | 10 | -22/-30 |
| F25T8 | 1 | 347 | 36 | 0.11 | 1.32 | 3.67 | 99 | 1.7 | 30 | -22/-30 |
| | 2 | 347 | 47 | 0.14 | 1.16 | 2.47 | 98 | 1.7 | 10 | 60/16 |
| F25T8/WM | 2 | 347 | 37 | 0.11 | 1.10 | 2.97 | 97 | 1.7 | 12 | -22/-30 |
| | 1 | 347 | 23 | 0.08 | 1.25 | 5.43 | 87 | 1.7 | 52 | -22/-30 |
| F17T8 | 2 | 347 | 31 | 0.10 | 1.10 | 3.55 | 97 | 1.7 | 12 | 60/16 |
| | 2 | 347 | 30 | 0.09 | 1.00 | 3.33 | 94 | 1.7 | 30 | -22/-30 |
| FE15T8 | 1 | 347 | 19 | 0.07 | 1.15 | 6.05 | 82 | 1.7 | 55 | -22/-30 |
| | 1 | 347 | 53 | 0.16 | 1.24 | 2.34 | 99 | 1.7 | 10 | -22/-30 |
| F40T8 | 2 | 347 | 61 | 0.18 | 1.23 | 2.02 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 347 | 39 | 0.12 | 1.45 | 3.72 | 95 | 1.7 | 20 | -22/-30 |

Safety and performance


 UL Class P
  UL Type 1 Outdoor
  UL Type HL
 ICES-005 for EMI and RFI
 FCC – CLASS A Non-Consumer


 ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991
 High Temperature Rated: Suitable for high temperature applications

70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty
 Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series 347V High-Efficiency T8 Instant Start Ballasts

74111 – GE332MAXP347-H

UltraMax® P-Series 347V High-Efficiency

3 or 2 – F32T8 347V “H” 1.18 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Instant start ballast for long lamp starting cycles and low initial cost
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature
- Parallel lamp operation means system maintenance is easier to manage

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |





| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack 74111 | Pallet Pack | DIY Pack | IP Pack |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1C – see example on Page 10-61 | |
| Case dimensions – Ref Drawing - A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.15 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 3 | 347 | 105 | 0.30 | 1.18 | 1.12 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 347 | 79 | 0.23 | 1.29 | 1.63 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 347 | 100 | 0.29 | 1.15 | 1.15 | 99 | 1.7 | 10 | 60/16 |
| F32T8/WM | 2 | 347 | 76 | 0.22 | 1.27 | 1.67 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 93 | 0.27 | 1.13 | 1.22 | 99 | 1.7 | 17 | 60/16 |
| F28T8 | 2 | 347 | 71 | 0.20 | 1.26 | 1.77 | 99 | 1.7 | 17 | 60/16 |
| F32T8/25W | 3 | 347 | 85 | 0.25 | 1.13 | 1.33 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 82 | 0.24 | 1.17 | 1.43 | 99 | 1.7 | 10 | -22/-30 |
| F25T8 | 2 | 347 | 62 | 0.18 | 1.30 | 2.10 | 99 | 1.7 | 10 | -22/-30 |
| F25T8/WM | 3 | 347 | 70 | 0.20 | 1.17 | 1.67 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 60 | 0.17 | 1.10 | 1.83 | 99 | 1.7 | 10 | -22/-30 |
| F17T8 | 2 | 347 | 44 | 0.13 | 1.22 | 2.77 | 98 | 1.7 | 13 | -22/-30 |
| F17T8/WM | 3 | 347 | 52 | 0.15 | 1.10 | 2.12 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 46 | 0.14 | 1.00 | 2.17 | 98 | 1.7 | 12 | -22/-30 |
| FE15T8 | 2 | 347 | 36 | 0.11 | 1.11 | 3.08 | 91 | 1.7 | 33 | -22/-30 |
| F40T8 | 2 | 347 | 99 | 0.27 | 1.28 | 1.29 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 347 | 89 | 0.26 | 1.24 | 1.39 | 99 | 1.7 | 10 | -22/-30 |
| F25T12 | 2 | 347 | 68 | 0.20 | 1.40 | 2.06 | 99 | 1.7 | 10 | -22/-30 |

Safety and performance





 ICES-005 for EMI and RFI FCC – CLASS A Non-Consumer


 ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 High Temperature Rated: Suitable for high temperature applications

70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series 347V High-Efficiency T8 Instant Start Ballasts

74113 – GE432MAXP347-H

UltraMax® P-Series 347V High-Efficiency

4 or 3 – F32T8 347V “H” 1.18 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Instant start ballast for long lamp starting cycles and low initial cost
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature
- Parallel lamp operation means system maintenance is easier to manage

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A(20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74113 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 4 | 347 | 137 | 0.39 | 1.18 | .86 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 347 | 114 | 0.33 | 1.25 | 1.10 | 99 | 1.7 | 10 | -22/-30 |
| | 4 | 347 | 134 | 0.39 | 1.15 | .86 | 99 | 1.7 | 10 | 60/16 |
| F32T8/W/M | 3 | 347 | 111 | 0.32 | 1.23 | 1.11 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 126 | 0.36 | 1.13 | .90 | 99 | 1.7 | 17 | 60/16 |
| F28T8 | 3 | 347 | 104 | 0.30 | 1.21 | 1.16 | 99 | 1.7 | 17 | 60/16 |
| F32T8/25W | 4 | 347 | 113 | 0.32 | 1.12 | .99 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 111 | 0.32 | 1.16 | 1.05 | 99 | 1.7 | 10 | -22/-30 |
| F25T8 | 3 | 347 | 92 | 0.27 | 1.26 | 1.37 | 99 | 1.7 | 10 | -22/-30 |
| F25T8/W/M | 4 | 347 | 96 | 0.28 | 1.16 | 1.21 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 78 | 0.23 | 1.10 | 1.41 | 99 | 1.7 | 10 | -22/-30 |
| F17T8 | 3 | 347 | 66 | 0.19 | 1.18 | 1.79 | 98 | 1.7 | 11 | -22/-30 |
| F17T8/W/M | 4 | 347 | 68 | 0.19 | 1.10 | 1.62 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 61 | 0.18 | 1.00 | 1.64 | 98 | 1.7 | 13 | -22/-30 |
| FE15T8 | 3 | 347 | 51 | 0.15 | 1.06 | 2.08 | 97 | 1.7 | 15 | -22/-30 |
| F40T8 | 3 | 347 | 147 | 0.41 | 1.33 | .90 | 99 | 1.7 | 10 | -22/-30 |
| F25T12 | 4 | 347 | 121 | 0.35 | 1.23 | 1.02 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 347 | 101 | 0.29 | 1.33 | 1.32 | 99 | 1.7 | 10 | -22/-30 |

Safety and performance


 UL Class P
  UL Type 1 Outdoor
  UL Type HL
 ICES-005 for EMI and RFI
 FCC – CLASS A Non-Consumer


 ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991
 High Temperature Rated: Suitable for high temperature applications

70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty
 Product is compliant with material restriction requirements of RoHS

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1D – see example on Page 10-61 | |
| Case dimensions – Ref Drawing - A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.05 in (27 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.5 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Red & Blue | 31 in (787 mm) |
| Yellow | 47 in (1194 mm) |

UltraMax® Professional Series 480V High-Efficiency T8 Instant Start Ballasts

62718 – GE232MAXP480-H

UltraMax® P-Series 480V High-Efficiency

2 or 1 – F32T8 480V “H” 1.18 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- 3-Stage 3G Transient Suppression –line to line transient capability up to 6KV
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 62718 | | | |

Dimensions

| | |
|--|------------------|
| Wiring diagram – LFL 18 – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 11.75 in (299mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Width (X or F) | 1.05 in (27 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 2.15lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 2 | 480 | 73 | 0.16 | 1.18 | 1.62 | 95 | 1.7 | 10 | -22/-30 |
| | 1 | 480 | 45 | 0.10 | 1.39 | 3.09 | 88 | 1.7 | 15 | -22/-30 |
| F32T8/WM | 2 | 480 | 68 | 0.15 | 1.16 | 1.71 | 92 | 1.7 | 10 | 10/-12 |
| | 1 | 480 | 42 | 0.10 | 1.37 | 3.26 | 88 | 1.7 | 15 | 10/-12 |
| F28T8 | 2 | 480 | 64 | 0.14 | 1.13 | 1.77 | 92 | 1.7 | 10 | 10/-12 |
| | 1 | 480 | 41 | 0.09 | 1.35 | 3.29 | 88 | 1.7 | 15 | 10/-12 |
| F32T8/25W | 2 | 480 | 59 | 0.13 | 1.11 | 1.88 | 92 | 1.7 | 10 | 10/-12 |
| | 1 | 480 | 38 | 0.09 | 1.34 | 3.53 | 88 | 1.7 | 15 | 10/-12 |
| F25T8 | 2 | 480 | 58 | 0.13 | 1.17 | 2.02 | 92 | 1.7 | 10 | -22/-30 |
| | 1 | 480 | 38 | 0.09 | 1.38 | 3.63 | 88 | 1.7 | 15 | -22/-30 |
| F17T8 | 2 | 480 | 42 | 0.09 | 1.18 | 2.81 | 88 | 1.7 | 15 | -22/-30 |
| | 1 | 480 | 28 | 0.07 | 1.39 | 4.96 | 80 | 1.7 | 20 | -22/-30 |
| F36T8 | 2 | 480 | 61 | 0.14 | 0.85 | 1.39 | 92 | 1.7 | 10 | 10/-12 |
| | 1 | 480 | 39 | 0.09 | 1.02 | 2.62 | 88 | 1.7 | 15 | 10/-12 |
| F40T8 | 1 | 480 | 58 | 0.13 | 1.32 | 2.28 | 92 | 1.7 | 10 | 60/16 |

Safety and performance



UL 55°C Ambient Temperature rating 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series 480V High-Efficiency T8 Instant Start Ballasts

62719 – GE332MAXP480-H

UltraMax® P-Series 480V High-Efficiency

3 or 2- F32T8 480V "H" 1.18 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- 3-Stage 3G Transient Suppression –line to line transient capability up to 6KV
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A(20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| | | | |
|----------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 62719 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 3 | 480 | 108 | 0.23 | 1.18 | 1.09 | 95 | 1.7 | 10 | -22/-30 |
| | 2 | 480 | 82 | 0.18 | 1.31 | 1.60 | 95 | 1.7 | 10 | -22/-30 |
| F32T8/W/M | 3 | 480 | 100 | 0.22 | 1.16 | 1.16 | 95 | 1.7 | 10 | 10/-12 |
| | 2 | 480 | 76 | 0.16 | 1.28 | 1.68 | 95 | 1.7 | 10 | 10/-12 |
| F28T8 | 3 | 480 | 94 | 0.20 | 1.13 | 1.20 | 95 | 1.7 | 10 | 10/-12 |
| | 2 | 480 | 72 | 0.16 | 1.26 | 1.75 | 95 | 1.7 | 10 | 10/-12 |
| F32T8/25W | 3 | 480 | 87 | 0.19 | 1.11 | 1.28 | 95 | 1.7 | 10 | 10/-12 |
| | 2 | 480 | 67 | 0.15 | 1.25 | 1.87 | 95 | 1.7 | 10 | 10/-12 |
| F25T8 | 3 | 480 | 84 | 0.18 | 1.17 | 1.39 | 95 | 1.7 | 10 | -22/-30 |
| | 2 | 480 | 65 | 0.14 | 1.29 | 1.98 | 95 | 1.7 | 10 | -22/-30 |
| F17T8 | 3 | 480 | 60 | 0.14 | 1.18 | 1.97 | 95 | 1.7 | 10 | -22/-30 |
| | 2 | 480 | 47 | 0.10 | 1.30 | 2.77 | 90 | 1.7 | 15 | -22/-30 |
| F36T8 | 3 | 480 | 90 | 0.19 | 0.85 | 0.94 | 95 | 1.7 | 10 | 10/-12 |
| | 2 | 480 | 68 | 0.15 | 0.95 | 1.40 | 95 | 1.7 | 10 | 10/-12 |
| F40T8 | 2 | 480 | 103 | 0.22 | 1.24 | 1.20 | 95 | 1.7 | 10 | 60/16 |

Safety and performance


 UL Class P
  UL Type 1 Outdoor
  UL Type HL
 FCC – CLASS A Non-Consumer
 ANSI - C82.11 - Cons 2002,
 ANSI - C62.41 – 2005, Category A, 6KV, 12 Ohms

UL 55°C Ambient Temperature rating 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty Product is compliant with material restriction requirements of RoHS

Dimensions

Wiring diagram – LFL 1C – see example on Page 10-61

Case dimensions – Ref Drawing -A – see Page 10-62

| | |
|------------|------------------|
| Length (L) | 11.75 in (299mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|------------------|
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Width (X or F) | 1.05 in (27 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 2.15lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

UltraMax® Professional Series 480V High-Efficiency T8 Instant Start Ballasts

62720 – GE432MAXP480-H

UltraMax® P-Series 480V High-Efficiency

4 or 3– F32T8 480V “H” 1.18 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- 3-Stage 3G Transient Suppression –line to line transient capability up to 6KV
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 62720 | | | |

Dimensions

Wiring diagram – LFL 1D – see example on Page 10-61

Case dimensions – Ref Drawing -A – see Page 10-62

| | |
|------------|------------------|
| Length (L) | 11.75 in (299mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|------------------|
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Width (X or F) | 1.05 in (27 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 2.15lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-----------------|-----------------|
| White and Black | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 31 in (787 mm) |
| Yellow | 47 in (1194 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 4 | 480 | 144 | 0.31 | 1.18 | 0.82 | 95 | 1.7 | 10 | -22/-30 |
| | 3 | 480 | 118 | 0.25 | 1.29 | 1.09 | 95 | 1.7 | 10 | -22/-30 |
| | 4 | 480 | 134 | 0.29 | 1.16 | 0.87 | 95 | 1.7 | 10 | 10/-12 |
| F32T8/WM | 3 | 480 | 110 | 0.24 | 1.26 | 1.15 | 95 | 1.7 | 10 | 10/-12 |
| | 4 | 480 | 125 | 0.27 | 1.13 | 0.90 | 95 | 1.7 | 10 | 10/-12 |
| F28T8 | 3 | 480 | 103 | 0.22 | 1.23 | 1.19 | 95 | 1.7 | 10 | 10/-12 |
| | 4 | 480 | 115 | 0.26 | 1.11 | 0.97 | 95 | 1.7 | 10 | 10/-12 |
| F32T8/25W | 3 | 480 | 96 | 0.21 | 1.22 | 1.27 | 95 | 1.7 | 10 | 10/-12 |
| | 4 | 480 | 110 | 0.24 | 1.17 | 1.06 | 95 | 1.7 | 10 | -22/-30 |
| F25T8 | 3 | 480 | 91 | 0.21 | 1.26 | 1.38 | 95 | 1.7 | 10 | -22/-30 |
| | 4 | 480 | 79 | 0.17 | 1.18 | 1.49 | 95 | 1.7 | 10 | -22/-30 |
| F17T8 | 3 | 480 | 66 | 0.14 | 1.27 | 1.92 | 95 | 1.7 | 10 | -22/-30 |
| | 4 | 480 | 119 | 0.26 | 0.85 | 0.71 | 95 | 1.7 | 10 | 10/-12 |
| F36T8 | 3 | 480 | 98 | 0.21 | 0.93 | 0.95 | 95 | 1.7 | 10 | 10/-12 |
| F40T8 | 3 | 480 | 148 | 0.32 | 1.21 | 0.82 | 95 | 1.7 | 10 | 60/16 |

Safety and performance



UL Class P



UL Type 1 Outdoor



UL Type HL

FCC – CLASS A Non-Consumer ANSI - C82.11 - Cons 2002, ANSI - C62.41 – 2005, Category A, 6KV, 12 Ohms

UL 55°C Ambient Temperature rating 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty Product is compliant with material restriction requirements of RoHS

UltraMax® General Series T8 Multi-Voltage 120-277V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

72269 – GE132MAX-G-N (Replaces GE-132-MV-N)

UltraMax® G-Series T8 Multivolt 120V-277V

1 – F32T8 120 to 277 "N" .87 BF Multivolt UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic - Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|



Order information



| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 72269 | 72270 | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 1 | 120 | 28 | 0.24 | .88 | 3.14 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 28 | 0.11 | .88 | 3.14 | 98 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 27 | 0.23 | .87 | 3.22 | 99 | 1.5 | 10 | -22/-30 |
| F32T8/WM | 1 | 277 | 27 | 0.10 | .87 | 3.22 | 98 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 25 | 0.22 | .89 | 3.56 | 99 | 1.5 | 10 | -22/-30 |
| F28T8 | 1 | 277 | 25 | 0.10 | .89 | 3.56 | 98 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 24 | 0.19 | .88 | 3.67 | 99 | 1.5 | 10 | -22/-30 |
| F32T8/25W | 1 | 277 | 23 | 0.09 | .88 | 3.83 | 94 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 23 | 0.19 | .94 | 4.09 | 99 | 1.5 | 10 | -22/-30 |
| F25T8 | 1 | 277 | 24 | 0.09 | .94 | 3.92 | 94 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 17 | 0.14 | .98 | 5.76 | 99 | 1.5 | 10 | -22/-30 |
| F17T8 | 1 | 277 | 17 | 0.07 | .98 | 5.76 | 90 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 14 | 0.12 | .92 | 6.57 | 99 | 1.5 | 10 | -22/-30 |
| FE15T8 | 1 | 277 | 14 | 0.06 | .92 | 6.57 | 88 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 25 | 0.21 | .94 | 3.76 | 99 | 1.5 | 10 | 0/-18 |
| F25T12 | 1 | 277 | 25 | 0.10 | .94 | 3.76 | 94 | 1.5 | 10 | 0/-18 |

Safety and performance


 FCC – CLASS A Non-Consumer

 Product is compliant with material restriction requirements of RoHS

Dimensions

Wiring diagram – LFL 1A – see example on Page 10-61

Case dimensions – Ref Drawing -A – see Page 10-62

| | |
|------------|------------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.6 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------|----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

UltraMax® General Series T8 Multi-Voltage 120–277V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

74803 – GE232MAX-G-H (Replaces GE232MV-H)

UltraMax® G-Series T8 Multivolt 120V-277V

2 or 1 – F32T8 120 to 277 “H” 1.18 BF Multivolt UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1B – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.06lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74803 | 74804 | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 2 | 120 | 77 | 0.65 | 1.18 | 1.53 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 76 | 0.28 | 1.18 | 1.55 | 98 | 1.7 | 10 | -22/-30 |
| | 1 | 120 | 48 | 0.44 | 1.34 | 2.79 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 48 | 0.2 | 1.34 | 2.79 | 97 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 70 | 0.63 | 1.13 | 1.61 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 69 | 0.28 | 1.13 | 1.64 | 98 | 1.7 | 10 | 60/16 |
| F32T8/WM | 1 | 120 | 45 | 0.42 | 1.30 | 2.89 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 45 | 0.19 | 1.30 | 2.89 | 96 | 1.7 | 10 | 60/16 |
| | 2 | 120 | 65 | 0.57 | 1.10 | 1.69 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 64 | 0.26 | 1.10 | 1.72 | 98 | 1.7 | 10 | 60/16 |
| | 1 | 120 | 42 | 0.39 | 1.28 | 3.05 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 42 | 0.18 | 1.28 | 3.05 | 96 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 120 | 60 | 0.51 | 1.10 | 1.83 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 60 | 0.22 | 1.10 | 1.83 | 98 | 1.7 | 15 | 60/16 |
| | 1 | 120 | 37 | 0.31 | 1.28 | 3.46 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 37 | 0.14 | 1.28 | 3.46 | 97 | 1.7 | 18 | 60/16 |
| | 2 | 120 | 57 | 0.51 | 1.16 | 2.04 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 57 | 0.23 | 1.16 | 2.04 | 97 | 1.7 | 10 | -22/-30 |
| F32T8/25W | 1 | 120 | 38 | 0.35 | 1.32 | 3.47 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 38 | 0.16 | 1.32 | 3.47 | 96 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 41 | 0.36 | 1.15 | 2.80 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 41 | 0.16 | 1.15 | 2.80 | 96 | 1.7 | 10 | -22/-30 |
| | 1 | 120 | 27 | 0.24 | 1.31 | 4.85 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 27 | 0.11 | 1.31 | 4.85 | 94 | 1.7 | 10 | -22/-30 |
| F17T8 | 1 | 120 | 57 | 0.53 | | | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 57 | 0.23 | | | 97 | 1.7 | 10 | 0/-18 |

Safety and performance



UltraMax® General Series T8 Multi-Voltage 120-277V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

72273 - GE232MAX-G-L (Replaces GE-232-MV-L)

UltraMax® G-Series T8 Multivolt 120V-277V

2 or 1 - F32T8 120 to 277 "L".77 BF Multivolt UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic - High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

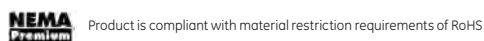
| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 72273 | | | |

| Dimensions | |
|--|------------------|
| Wiring diagram - LFL 1B - see example on Page 10-61 | |
| Case dimensions - Ref Drawing - A - see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.7lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 2 | 120 | 48 | 0.42 | .78 | 1.63 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 48 | 0.19 | .78 | 1.63 | 98 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 30 | 0.24 | .96 | 3.20 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 30 | 0.11 | .96 | 3.20 | 95 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 46 | 0.39 | .77 | 1.67 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 46 | 0.17 | .77 | 1.67 | 98 | 1.5 | 10 | -22/-30 |
| F32T8/W/M | 1 | 120 | 28 | 0.22 | .77 | 2.75 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 28 | 0.11 | .77 | 2.75 | 94 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 43 | 0.36 | .77 | 1.79 | 99 | 1.5 | 10 | -22/-30 |
| F28T8 | 2 | 277 | 42 | 0.16 | .77 | 1.83 | 97 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 26 | 0.21 | .77 | 2.96 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 26 | 0.10 | .77 | 2.96 | 94 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 39 | 0.33 | .78 | 2.00 | 99 | 1.5 | 10 | -22/-30 |
| F32T8/25W | 2 | 277 | 39 | 0.15 | .78 | 2.00 | 96 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 22 | 0.18 | .78 | 3.55 | 98 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 22 | 0.09 | .78 | 3.55 | 93 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 40 | 0.34 | .78 | 1.95 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 40 | 0.15 | .78 | 1.95 | 96 | 1.5 | 10 | -22/-30 |
| F25T8 | 1 | 120 | 23 | 0.21 | .96 | 4.17 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 24 | 0.10 | .96 | 4.00 | 93 | 1.5 | 15 | -22/-30 |
| | 2 | 120 | 28 | 0.24 | .79 | 2.82 | 99 | 1.5 | 10 | -22/-30 |
| F17T8 | 2 | 277 | 29 | 0.11 | .79 | 2.72 | 94 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 17 | 0.15 | .98 | 5.76 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 18 | 0.08 | .98 | 5.44 | 90 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 23 | 0.20 | .78 | 3.39 | 99 | 1.5 | 10 | -22/-30 |
| FE15T8 | 2 | 277 | 23 | 0.10 | .78 | 3.39 | 91 | 1.5 | 15 | -22/-30 |
| | 1 | 120 | 14 | 0.13 | .78 | 5.57 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 15 | 0.07 | .78 | 5.20 | 87 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 42 | 0.35 | .80 | 1.90 | 99 | 1.5 | 10 | 0/-18 |
| F25T12 | 2 | 277 | 41 | 0.15 | .80 | 1.95 | 97 | 1.5 | 10 | 0/-18 |
| | 1 | 120 | 24 | 0.21 | .80 | 3.33 | 99 | 1.5 | 10 | 0/-18 |
| | 1 | 277 | 24 | 0.10 | .80 | 3.33 | 95 | 1.5 | 10 | 0/-18 |

Safety and performance



UltraMax® General Series T8 Multi-Voltage 120–277V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

72275 – GE232MAX-G-N (Replaces GE-232-MV-N)

UltraMax® G-Series T8 Multivolt 120V-277V

2 or 1 – F32T8 120 to 277 “N” .87 BF Multivolt UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature [MAX] | 40°C (104°F) |
| Case Temperature [MAX] | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 72275 | 72276 | 93883 | |

Dimensions

Wiring diagram – LFL 18 – see example on Page 10-61

Case dimensions – Ref Drawing – A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.06 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 2 | 120 | 57 | 0.48 | .88 | 1.54 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 55 | 0.2 | .88 | 1.60 | 98 | 1.7 | 10 | -22/-30 |
| | 1 | 120 | 35 | 0.3 | 1.08 | 3.09 | 99 | 1.7 | 10 | -22/-30 |
| F32T8/NM | 1 | 277 | 35 | 0.13 | 1.08 | 3.09 | 97 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 53 | 0.44 | .86 | 1.62 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 51 | 0.19 | .87 | 1.71 | 97 | 1.7 | 10 | 60/16 |
| F32T8/25W | 1 | 120 | 33 | 0.28 | 1.05 | 3.18 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 33 | 0.12 | 1.05 | 3.18 | 96 | 1.7 | 10 | 60/16 |
| | 2 | 120 | 47 | 0.39 | .83 | 1.77 | 99 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 277 | 47 | 0.17 | .83 | 1.77 | 97 | 1.7 | 10 | 60/16 |
| | 1 | 120 | 31 | 0.26 | 1.02 | 3.29 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 31 | 0.11 | .02 | .06 | 95 | 1.7 | 10 | 60/16 |
| F32T8/25W | 2 | 120 | 43 | 0.36 | .83 | 1.93 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 43 | 0.16 | .83 | 1.93 | 97 | 1.7 | 10 | 60/16 |
| | 1 | 120 | 28 | 0.24 | 1.02 | 3.64 | 99 | 1.7 | 10 | 60/16 |
| F25T8 | 1 | 277 | 28 | 0.10 | 1.02 | 3.64 | 98 | 1.7 | 10 | 60/16 |
| | 2 | 120 | 44 | 0.37 | .90 | 2.05 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 44 | 0.16 | .91 | 2.07 | 97 | 1.7 | 10 | -22/-30 |
| F17T8 | 1 | 120 | 28 | 0.23 | 1.08 | 3.86 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 28 | 0.11 | 1.08 | 3.86 | 95 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 31 | 0.26 | .88 | 2.84 | 99 | 1.7 | 10 | -22/-30 |
| F40T8 | 2 | 277 | 31 | 0.12 | .88 | 2.84 | 95 | 1.7 | 10 | -22/-30 |
| | 1 | 120 | 20 | 0.17 | 1.05 | 5.25 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 21 | 0.08 | 1.05 | 5.00 | 92 | 1.7 | 14 | -22/-30 |
| F40T8 | 1 | 120 | 44 | 0.37 | 1.08 | 2.45 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 43 | 0.16 | 1.08 | 2.51 | 96 | 1.7 | 10 | 0/-18 |

Safety and performance



NEMA Product is compliant with material restriction requirements of RoHS

UltraMax® General Series T8 Multi-Voltage 120-277V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

74461 – GE332MAX-G-H (Replaces GE332MV-H)

UltraMax® G-Series T8 Multivolt 120V-277V

3 or 2 – F32T8 120 to 277 "H" 1.15 BF Multivolt UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic –Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74461 | 74462 | | |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1C – see example on Page 10-61 | |
| Case dimensions – Ref Drawing –A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 3 | 120 | 113 | 0.95 | 1.15 | 1.02 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 110 | 0.41 | 1.15 | 1.05 | 98 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 86 | 0.79 | 1.27 | 1.48 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 85 | 0.34 | 1.27 | 1.49 | 97 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 103 | 0.91 | 1.11 | 1.08 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 101 | 0.39 | 1.11 | 1.10 | 98 | 1.7 | 10 | 60/16 |
| F32T8/WM | 2 | 120 | 79 | 0.73 | 1.22 | 1.54 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 78 | 0.32 | 1.22 | 1.56 | 97 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 94 | 0.84 | 1.10 | 1.17 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 92 | 0.36 | 1.10 | 1.20 | 98 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 120 | 72 | 0.67 | 1.20 | 1.67 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 72 | 0.30 | 1.20 | 1.67 | 97 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 89 | 0.75 | 1.07 | 1.20 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 88 | 0.32 | 1.07 | 1.22 | 98 | 1.7 | 15 | 60/16 |
| F32T8/25W | 2 | 120 | 68 | 0.57 | 1.20 | 1.76 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 69 | 0.26 | 1.20 | 1.74 | 97 | 1.7 | 18 | 60/16 |
| | 3 | 120 | 84 | 0.75 | 1.14 | 1.36 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 83 | 0.33 | 1.14 | 1.37 | 97 | 1.7 | 10 | -22/-30 |
| F25T8 | 2 | 120 | 65 | 0.61 | 1.14 | 1.75 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 65 | 0.26 | 1.14 | 1.75 | 97 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 59 | 0.52 | 1.13 | 1.92 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 59 | 0.24 | 1.13 | 1.92 | 96 | 1.7 | 10 | -22/-30 |
| F17T8 | 2 | 120 | 46 | 0.43 | 1.24 | 2.70 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 46 | 0.20 | 1.24 | 2.70 | 95 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 102 | 0.95 | | | 99 | 1.7 | 10 | 0/-18 |
| F40T8 | 2 | 277 | 100 | 0.41 | | | 98 | 1.7 | 10 | 0/-18 |

Safety and performance   UL Class P  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer



Product is compliant with material restriction requirements of RoHS

UltraMax® General Series T8 Multi-Voltage 120–277V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

74459 – GE332MAX-G-L (Replaces GE332MV-L)

UltraMax® G-Series T8 Multivolt 120V-277V

3 or 2 – F32T8 120 to 277 “L”.77 BF Multivolt UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature [MAX] | 40°C (104°F) |
| Case Temperature [MAX] | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1C – see example on Page 10-61 | |
| Case dimensions – Ref Drawing – A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|



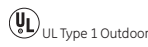

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 74459 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 3 | 120 | 74 | 0.70 | .78 | 1.05 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 73 | 0.31 | .78 | 1.07 | 98 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 60 | 0.55 | .87 | 1.45 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 59 | 0.24 | .87 | 1.47 | 97 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 69 | 0.62 | .75 | 1.09 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 68 | 0.27 | .75 | 1.10 | 98 | 1.7 | 10 | 60/16 |
| F32T8/WM | 2 | 120 | 55 | 0.50 | .83 | 1.51 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 55 | 0.22 | .83 | 1.51 | 97 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 63 | 0.57 | .75 | 1.19 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 63 | 0.25 | .75 | 1.19 | 98 | 1.7 | 10 | 60/16 |
| | 2 | 120 | 50 | 0.46 | .83 | 1.66 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 50 | 0.20 | .83 | 1.66 | 97 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 120 | 59 | 0.50 | .74 | 1.25 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 59 | 0.22 | .74 | 1.25 | 98 | 1.7 | 15 | 60/16 |
| | 2 | 120 | 46 | 0.39 | .83 | 1.80 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 47 | 0.17 | .83 | 1.77 | 97 | 1.7 | 18 | 60/16 |
| | 3 | 120 | 58 | 0.52 | .77 | 1.33 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 58 | 0.23 | .77 | 1.33 | 97 | 1.7 | 10 | -22/-30 |
| F32T8/25W | 2 | 120 | 45 | 0.42 | .86 | 1.91 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 45 | 0.19 | .86 | 1.91 | 96 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 41 | 0.36 | .77 | 1.88 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 41 | 0.16 | .77 | 1.88 | 96 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 32 | 0.30 | .85 | 2.66 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 33 | 0.14 | .85 | 2.58 | 95 | 1.7 | 10 | -22/-30 |
| F17T8 | 2 | 120 | 69 | 0.63 | | | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 68 | 0.27 | | | 98 | 1.7 | 10 | 0/-18 |

Safety and performance





 FCC – CLASS A Non-Consumer


 Product is compliant with material restriction requirements of RoHS

UltraMax® General Series T8 Multi-Voltage 120-277V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

74456 – GE332MAX-G-N (Replaces GE332MV-N)

UltraMax® G-Series T8 Multivolt 120V-277V

3 or 2 – F32T8 120 to 277 “N” .87 BF Multivolt UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 74456 | 74457 | 93869 | |

Dimensions

Wiring diagram – LFL1C – see example on Page 10-61
Case dimensions – Ref Drawing – A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 3 | 120 | 81 | 0.73 | .87 | 1.07 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 80 | 0.32 | .87 | 1.09 | 98 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 62 | 0.56 | .96 | 1.55 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 62 | 0.26 | .96 | 1.55 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 75 | 0.68 | .83 | 1.11 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 74 | 0.30 | .83 | 1.12 | 98 | 1.7 | 10 | 60/16 |
| F32T8/WM | 2 | 120 | 58 | 0.52 | .92 | 1.59 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 57 | 0.23 | .92 | 1.61 | 98 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 67 | 0.60 | .82 | 1.22 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 66 | 0.26 | .82 | 1.24 | 98 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 120 | 52 | 0.46 | .87 | 1.67 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 51 | 0.29 | .87 | 1.71 | 97 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 66 | 0.56 | .80 | 1.21 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 65 | 0.24 | .80 | 1.23 | 98 | 1.7 | 13 | 60/16 |
| F32T8/25W | 2 | 120 | 51 | 0.43 | .87 | 1.71 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 50 | 0.19 | .87 | 1.74 | 97 | 1.7 | 18 | 60/16 |
| | 3 | 120 | 63 | 0.57 | .86 | 1.37 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 62 | 0.25 | .86 | 1.39 | 98 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 48 | 0.43 | .94 | 1.96 | 99 | 1.7 | 10 | -22/-30 |
| F25T8 | 2 | 277 | 48 | 0.19 | .94 | 1.96 | 97 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 45 | 0.40 | .86 | 1.91 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 44 | 0.18 | .86 | 1.95 | 97 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 34 | 0.30 | .92 | 2.71 | 99 | 1.7 | 10 | -22/-30 |
| F17T8 | 2 | 277 | 35 | 0.15 | .92 | 2.63 | 96 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 75 | 0.67 | | | 99 | 1.7 | 10 | 0/-18 |
| F40T8 | 2 | 277 | 73 | 0.29 | | | 98 | 1.7 | 10 | 0/-18 |

Safety and performance UL Class P UL Type 1 Outdoor UL Type HL FCC – CLASS A Non-Consumer

Product is compliant with material restriction requirements of RoHS

UltraMax® General-Series T8 Multi-Voltage 120–277V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

67911 – GE432MAX-G-H (Replaces GE432MAXA-H)

UltraMax® G-Series T8 Multivolt 120V-277V

4 or 3 – F32T8 120 to 277 “H” 1.18 BF Multivolt UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 67911 | | | |

Dimensions

Wiring diagram – LFL 1D – see example on Page 10-61

Case dimensions – Ref Drawing - A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.05 in (27 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

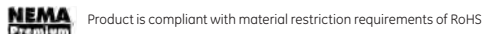
Lead lengths

| | |
|------------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Red & Blue | 31 in (787 mm) |
| Yellow | 47 in (1194 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 4 | 120 | 146 | 1.23 | 1.18 | .81 | 99 | 1.7 | 10 | -22/-30 |
| | 4 | 277 | 143 | 0.53 | 1.18 | .83 | 98 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 115 | 0.96 | 1.24 | 1.08 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 113 | 0.42 | 1.24 | 1.10 | 98 | 1.7 | 10 | -22/-30 |
| | 4 | 120 | 130 | 1.09 | 1.13 | .87 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 128 | 0.47 | 1.13 | .88 | 98 | 1.7 | 10 | 60/16 |
| F32T8/WM | 3 | 120 | 107 | 0.90 | 1.22 | 1.14 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 106 | 0.39 | 1.22 | 1.15 | 97 | 1.7 | 10 | 60/16 |
| | 4 | 120 | 123 | 1.03 | 1.10 | .89 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 121 | 0.44 | 1.11 | .92 | 98 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 101 | 0.85 | 1.20 | 1.19 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 100 | 0.37 | 1.20 | 1.20 | 97 | 1.7 | 10 | 60/16 |
| F28T8 | 4 | 120 | 123 | 1.03 | 1.11 | .90 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 121 | 0.44 | 1.11 | .92 | 98 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 101 | 0.85 | 1.22 | 1.21 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 100 | 0.37 | 1.22 | 1.22 | 97 | 1.7 | 10 | 60/16 |
| | 4 | 120 | 107 | 0.89 | 1.17 | 1.09 | 99 | 1.7 | 10 | 0/-18 |
| | 4 | 277 | 105 | 0.39 | 1.17 | 1.11 | 98 | 1.7 | 10 | 0/-18 |
| F32T8/25W | 3 | 120 | 88 | 0.76 | 1.25 | 1.42 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 88 | 0.37 | 1.25 | 1.42 | 97 | 1.7 | 10 | 0/-18 |
| | 4 | 120 | 76 | 0.64 | 1.13 | 1.49 | 99 | 1.7 | 10 | 0/-18 |
| | 4 | 277 | 76 | 0.28 | 1.13 | 1.49 | 97 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 63 | 0.53 | 1.25 | 1.98 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 64 | 0.24 | 1.25 | 1.95 | 96 | 1.7 | 10 | 0/-18 |
| F17T8 | 3 | 120 | 144 | 1.20 | | | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 141 | 0.52 | | | 98 | 1.7 | 10 | 0/-18 |

Safety and performance



UltraMax® General Series T8 Multi-Voltage 120-277V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

74466 – GE432MAX-G-L (Replaces GE432MV-L)

UltraMax® G-Series T8 Multivolt 120V-277V

4 or 3 – F32T8 120 to 277 “L”.77 BF Multivolt UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic - Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 74466 | | | |

Dimensions

Wiring diagram – LFL 1D – see example on Page 10-61
Case dimensions – Ref Drawing -A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|------------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Red & Blue | 31 in (787 mm) |
| Yellow | 47 in (1194 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 4 | 120 | 100 | 0.95 | .80 | .80 | 99 | 1.7 | 10 | -22/-30 |
| | 4 | 277 | 98 | 0.41 | .80 | .82 | 98 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 87 | 0.80 | .87 | 1.00 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 86 | 0.35 | .87 | 1.01 | 97 | 1.7 | 10 | -22/-30 |
| | 4 | 120 | 95 | 0.84 | .76 | .80 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 93 | 0.36 | .76 | .82 | 98 | 1.7 | 10 | 60/16 |
| F32T8/AWM | 3 | 120 | 79 | 0.73 | .83 | 1.05 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 78 | 0.32 | .83 | 1.06 | 97 | 1.7 | 10 | 60/16 |
| | 4 | 120 | 86 | 0.77 | .75 | .87 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 85 | 0.33 | .70 | .82 | 97 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 120 | 73 | 0.67 | .79 | 1.08 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 72 | 0.29 | .79 | 1.10 | 97 | 1.7 | 10 | 60/16 |
| | 4 | 120 | 77 | 0.65 | .70 | .91 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 77 | 0.28 | .73 | .95 | 98 | 1.7 | 15 | 60/16 |
| F32T8/25W | 3 | 120 | 65 | 0.55 | .79 | 1.22 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 65 | 0.24 | .79 | 1.22 | 97 | 1.7 | 18 | 60/16 |
| | 4 | 120 | 78 | 0.69 | .80 | 1.03 | 99 | 1.7 | 10 | -22/-30 |
| | 4 | 277 | 77 | 0.31 | .80 | 1.04 | 97 | 1.7 | 10 | -22/-30 |
| F25T8 | 3 | 120 | 66 | 0.61 | .86 | 1.30 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 65 | 0.27 | .86 | 1.32 | 97 | 1.7 | 10 | -22/-30 |
| | 4 | 120 | 55 | 0.49 | .79 | 1.44 | 99 | 1.7 | 10 | -22/-30 |
| | 4 | 277 | 55 | 0.23 | .79 | 1.44 | 96 | 1.7 | 10 | -22/-30 |
| F17T8 | 3 | 120 | 46 | 0.43 | .85 | 1.85 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 46 | 0.19 | .85 | 1.85 | 95 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 102 | 0.94 | | | 99 | 1.7 | 10 | 0/-18 |
| F40T8 | 3 | 277 | 100 | 0.41 | | | 97 | 1.7 | 10 | 0/-18 |

Safety and performance

UL Class P UL Type 1 Outdoor UL Type HL FCC – CLASS A Non-Consumer



Product is compliant with material restriction requirements of RoHS

UltraMax® General Series T8 Multi-Voltage 120–277V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

74463 – GE432MAX-G-N (Replaces GE432MV-N)

UltraMax® G-Series T8 Multivolt 120V-277V

4 or 3 – F32T8 120 to 277 “N” .87 BF Multivolt UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic - Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

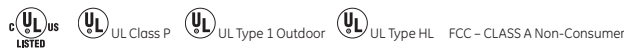
| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1D – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Red & Blue | 31 in (787 mm) |
| Yellow | 47 in (1194 mm) |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74463 | 74464 | 93868 | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 4 | 120 | 113 | 0.99 | .88 | .78 | 99 | 1.7 | 10 | -22/-30 |
| | 4 | 277 | 110 | 0.43 | .88 | .80 | 98 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 93 | 0.83 | .93 | 1.00 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 92 | 0.36 | .93 | 1.01 | 98 | 1.7 | 10 | -22/-30 |
| | 4 | 120 | 103 | 0.90 | .83 | .81 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 103 | 0.40 | .83 | .81 | 98 | 1.7 | 10 | 60/16 |
| F32T8/WM | 3 | 120 | 87 | 0.77 | .91 | 1.05 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 86 | 0.33 | .91 | 1.06 | 98 | 1.7 | 10 | 60/16 |
| | 4 | 120 | 93 | 0.83 | .82 | .88 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 92 | 0.36 | .82 | .89 | 98 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 77 | 0.68 | .85 | 1.10 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 77 | 0.30 | .85 | 1.10 | 98 | 1.7 | 10 | 60/16 |
| F28T8 | 4 | 120 | 88 | 0.74 | .80 | .91 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 87 | 0.32 | .80 | .92 | 98 | 1.7 | 15 | 60/16 |
| | 3 | 120 | 73 | 0.61 | .85 | 1.16 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 73 | 0.27 | .85 | 1.16 | 97 | 1.7 | 16 | 60/16 |
| | 4 | 120 | 88 | 0.77 | .87 | .99 | 99 | 1.7 | 10 | -22/-30 |
| | 4 | 277 | 86 | 0.34 | .87 | 1.01 | 98 | 1.7 | 10 | -22/-30 |
| F32T8/25W | 3 | 120 | 73 | 0.64 | .93 | 1.27 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 72 | 0.28 | .93 | 1.29 | 98 | 1.7 | 10 | -22/-30 |
| | 4 | 120 | 60 | 0.53 | .87 | 1.45 | 99 | 1.7 | 10 | -22/-30 |
| | 4 | 277 | 60 | 0.23 | .87 | 1.45 | 97 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 51 | 0.45 | .91 | 1.78 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 51 | 0.20 | .91 | 1.78 | 97 | 1.7 | 10 | -22/-30 |
| F25T8 | 3 | 120 | 112 | 0.99 | | | 99 | 1.7 | 10 | 0/-18 |
| | 4 | 120 | 60 | 0.53 | .87 | 1.45 | 99 | 1.7 | 10 | -22/-30 |
| | 4 | 277 | 60 | 0.23 | .87 | 1.45 | 97 | 1.7 | 10 | -22/-30 |
| F17T8 | 3 | 120 | 51 | 0.45 | .91 | 1.78 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 51 | 0.20 | .91 | 1.78 | 97 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 112 | 0.99 | | | 99 | 1.7 | 10 | 0/-18 |
| F40T8 | 3 | 277 | 110 | 0.43 | | | 98 | 1.7 | 10 | 0/-18 |

Safety and performance



UltraMax® General Series T8 Multi-Voltage 120-277V

T8 Instant Start Ballasts For 46-59W 4ft-8ft Slimline Lamps

72271 – GE159MAX-G-N (Replaces GE-159-MV-N)

UltraMax® G-Series T8 Multivolt 120V-277V

1 – F96T8 120 to 277 “N” 0.87 BF UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Cold temperature 0°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic -Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 72271 | 72272 | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F96T8 | 1 | 120 | 60 | 0.55 | .89 | 1.48 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 59 | 0.22 | .89 | 1.51 | 96 | 1.7 | 18 | 0/-18 |
| F96T8/WM | 1 | 120 | 56 | 0.51 | .85 | 1.52 | 99 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 54 | 0.22 | .85 | 1.57 | 96 | 1.7 | 18 | 50/10 |
| F96T8/WMP | 1 | 120 | 52 | 0.43 | .80 | 1.54 | 99 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 51 | 0.19 | .80 | 1.57 | 96 | 1.7 | 18 | 50/10 |

Safety and performance





 FCC - CLASS A Non-Consumer Product is compliant with material restriction requirements of RoHS

Dimensions

Wiring diagram – LFL 1A – see example on Page 10-61

Case dimensions – Ref Drawing -A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.06lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------|-----------------|
| Black | 22 in (559 mm) |
| White | 22 in (559 mm) |
| Blue | 46 in (1168 mm) |
| Red | 78 in (1981 mm) |

UltraMax® General Series T8 Multi-Voltage 120–277V T8 Instant Start Ballasts For 46-59W 4ft-8ft Slimline Lamps

74469 – GE259MAX-G-N (Replaces GE259MV-N)

UltraMax® G-Series T8 Multivolt 120V-277V

2 or 1 – F96T8 120 to 277 “N” 0.87 BF UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Cold temperature 0°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 74469 | 74470 | 93879 | |

Dimensions

Wiring diagram – LFL 1B – see example on Page 10-61

Case dimensions – Ref Drawing -A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------|-----------------|
| Black | 22 in (559 mm) |
| White | 22 in (559 mm) |
| Blue | 46 in (1168 mm) |
| Red | 78 in (1981 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp. (°F/°C) |
|----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|-----------------------------|
| F96T8 | 2 | 120 | 113 | 1.01 | .88 | .78 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 110 | 0.4 | .88 | .80 | 98 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 72 | 0.66 | .88 | 1.22 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 72 | 0.29 | .88 | 1.22 | 97 | 1.7 | 10 | 0/-18 |
| F96T8 | 2 | 120 | 104 | 0.93 | .86 | .83 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 101 | 0.42 | .86 | .85 | 98 | 1.7 | 10 | 60/16 |
| | 1 | 120 | 67 | 0.63 | 1.02 | 1.52 | 99 | 1.7 | 10 | 60/16 |
| F96T8/WM | 1 | 277 | 66 | 0.28 | 1.02 | 1.55 | 97 | 1.7 | 10 | 60/16 |

Safety and performance



UL Class P



UL Type 1 Outdoor



UL Type HL

FCC – CLASS A Non-Consumer

Product is compliant with material restriction requirements of RoHS

UltraMax® General Series 347V Instant Start High Performance T8 Instant Start Ballasts

74101 – GE132MAX-G-347 (Replaces GE132-N-347)

UltraMax® G-Series 347V Instant Start High-Efficiency

1 – F32T8 347V “N” 0.87 BF UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Light-weight, Slim Profile Mini Can Housing
- Parallel lamp operation means system maintenance is easier to manage
- Cold temperature 0°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

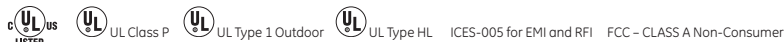
Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 74101 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 1 | 347 | 30 | 0.09 | .87 | 2.91 | 97 | 1.7 | 10 | 0/-18 |
| F32T8/WM | 1 | 347 | 28 | 0.08 | .86 | 3.10 | 96 | 1.7 | 10 | 0/-18 |
| F28T8 | 1 | 347 | 26 | 0.08 | .84 | 3.26 | 96 | 1.7 | 10 | 0/-18 |
| F32T8/25W | 1 | 347 | 24 | 0.07 | .84 | 3.50 | 96 | 1.7 | 10 | 0/-18 |
| F25T8 | 1 | 347 | 23 | 0.07 | .88 | 3.83 | 95 | 1.7 | 10 | 0/-18 |
| F25T8/WM | 1 | 347 | 20 | 0.07 | .88 | 4.40 | 95 | 1.7 | 10 | 0/-18 |
| F17T8 | 1 | 347 | 17 | 0.06 | .81 | 4.76 | 87 | 1.7 | 17 | 0/-18 |
| FE15T8 | 1 | 347 | 14 | 0.05 | .75 | 5.36 | 81 | 1.7 | 20 | 0/-18 |
| F25T12 | 1 | 347 | 24 | 0.07 | .88 | 3.67 | 95 | 1.7 | 10 | 0/-18 |

Safety and performance



ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 Product is compliant with material restriction requirements of RoHS

Dimensions

Wiring diagram – LFL 1A – see example on Page 10-61

Case dimensions – Ref Drawing -A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.04 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

UltraMax® General Series 347V Instant Start High Performance T8 Instant Start Ballasts

74103 – GE232MAX-G-347 (Replaces GE232-N-347)

UltraMax® G-Series 347V Instant Start High-Efficiency

2 or 1– F32T8 347V “N” 0.87 BF UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Light-weight, Slim Profile Mini Can Housing
- Parallel lamp operation means system maintenance is easier to manage
- Cold temperature 0°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20–24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74103 | | | |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1B – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.04 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 2 | 347 | 55 | 0.16 | 0.87 | 1.58 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 347 | 34 | 0.11 | 1.03 | 3.03 | 97 | 1.7 | 10 | 0/-18 |
| F32T8/WM | 2 | 347 | 52 | 0.15 | 0.85 | 1.63 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 32 | 0.09 | 1.01 | 3.16 | 97 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 347 | 48 | 0.14 | 0.84 | 1.75 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 30 | 0.09 | 1.00 | 3.33 | 96 | 1.7 | 10 | 60/16 |
| F32T8/25W | 2 | 347 | 44 | 0.13 | 0.84 | 1.91 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 41 | 0.12 | 0.88 | 2.15 | 98 | 1.7 | 10 | 0/-18 |
| F25T8 | 1 | 347 | 26 | 0.08 | 1.04 | 4.00 | 95 | 1.7 | 11 | 0/-18 |
| | 2 | 347 | 35 | 0.11 | 0.88 | 2.51 | 98 | 1.7 | 10 | 60/16 |
| F25T8/WM | 2 | 347 | 29 | 0.09 | 0.83 | 2.86 | 96 | 1.7 | 10 | 0/-18 |
| | 1 | 347 | 19 | 0.07 | 0.99 | 5.21 | 84 | 1.7 | 50 | 0/-18 |
| F17T8 | 2 | 347 | 24 | 0.08 | 0.83 | 3.46 | 96 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 24 | 0.08 | 0.76 | 3.17 | 90 | 1.7 | 30 | 0/-18 |
| FE15T8 | 1 | 347 | 16 | 0.06 | 0.89 | 5.56 | 78 | 1.7 | 66 | 0/-18 |
| | 2 | 347 | 44 | 0.13 | 0.88 | 2.00 | 98 | 1.7 | 10 | 0/-18 |
| F25T12 | 1 | 347 | 28 | 0.08 | 1.07 | 3.82 | 96 | 1.7 | 10 | 0/-18 |

Safety and performance



ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 Product is compliant with material restriction requirements of RoHS

UltraMax® General Series 347V Instant Start High Performance T8 Instant Start Ballasts

74105 – GE332MAX-G-347 (Replaces GE332-N-347)

UltraMax® G-Series 347V Instant Start High-Efficiency

3 or 2 – F32T8 347V “N” 0.87 BF UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Light-weight, Slim Profile Mini Can Housing
- Parallel lamp operation means system maintenance is easier to manage
- Cold temperature 0°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 74105 | | | |

Dimensions

Wiring diagram – LFL 1C – see example on Page 10-61
Case dimensions – Ref Drawing –A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.15lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 3 | 347 | 82 | 0.23 | 0.87 | 1.06 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 347 | 60 | 0.17 | 0.97 | 1.62 | 99 | 1.7 | 10 | 0/-18 |
| F32T8/WM | 3 | 347 | 78 | 0.22 | 0.85 | 1.09 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 57 | 0.17 | 0.98 | 1.72 | 99 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 347 | 73 | 0.20 | 0.83 | 1.14 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 53 | 0.15 | 0.94 | 1.77 | 99 | 1.7 | 10 | 60/16 |
| F32T8/25W | 3 | 347 | 66 | 0.19 | 0.83 | 1.26 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 62 | 0.18 | 0.88 | 1.42 | 99 | 1.7 | 10 | 0/-18 |
| F25T8 | 2 | 347 | 48 | 0.14 | 0.98 | 2.04 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 347 | 53 | 0.17 | 0.88 | 1.66 | 99 | 1.7 | 10 | 60/16 |
| F25T8/WM | 3 | 347 | 44 | 0.13 | 0.83 | 1.89 | 98 | 1.7 | 10 | 0/-18 |
| | 2 | 347 | 34 | 0.11 | 0.93 | 2.74 | 91 | 1.7 | 34 | 0/-18 |
| F17T8 | 3 | 347 | 37 | 0.11 | 0.83 | 2.24 | 98 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 32 | 0.10 | 0.76 | 2.38 | 96 | 1.7 | 14 | 0/-18 |
| FE15T8 | 2 | 347 | 25 | 0.08 | 0.85 | 3.40 | 91 | 1.7 | 41 | 0/-18 |
| | 3 | 347 | 65 | 0.19 | 0.83 | 1.28 | 99 | 1.7 | 10 | 0/-18 |
| F25T12 | 2 | 347 | 51 | 0.15 | 1.00 | 1.96 | 99 | 1.7 | 10 | 0/-18 |

Safety and performance



ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 Product is compliant with material restriction requirements of RoHS

UltraMax® General Series 347V Instant Start High Performance T8 Instant Start Ballasts

74107 – GE432MAX-G-347 (Replaces GE432-N-347)

UltraMax® G-Series 347V Instant Start High-Efficiency

4 or 3- F32T8 347V "N" 0.87 BF UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Light-weight, Slim Profile Mini Can Housing
- Parallel lamp operation means system maintenance is easier to manage
- Cold temperature 0°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature [MAX] | 40°C (104°F) |
| Case Temperature [MAX] | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74107 | | | |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1D – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.15lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Red & Blue | 31 in (787 mm) |
| Yellow | 47 in (1194 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 4 | 347 | 109 | 0.30 | 0.88 | .81 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 347 | 87 | 0.25 | 0.95 | 1.09 | 99 | 1.7 | 10 | 0/-18 |
| | 4 | 347 | 103 | 0.29 | 0.86 | .83 | 99 | 1.7 | 10 | 60/16 |
| F32T8/WM | 3 | 347 | 83 | 0.24 | 0.94 | 1.13 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 96 | 0.27 | 0.84 | .88 | 99 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 347 | 76 | 0.22 | 0.92 | 1.21 | 99 | 1.7 | 10 | 60/16 |
| F32T8/25W | 4 | 347 | 87 | 0.25 | 0.84 | .97 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 83 | 0.24 | 0.88 | 1.06 | 99 | 1.7 | 10 | 0/-18 |
| F25T8 | 3 | 347 | 68 | 0.20 | 0.96 | 1.41 | 99 | 1.7 | 10 | 0/-18 |
| F25T8/WM | 4 | 347 | 71 | 0.20 | 0.88 | 1.24 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 52 | 0.17 | 0.84 | 1.62 | 99 | 1.7 | 10 | 0/-18 |
| F17T8 | 3 | 347 | 48 | 0.14 | 0.91 | 1.90 | 98 | 1.7 | 10 | 0/-18 |
| F17T8/WM | 4 | 347 | 44 | 0.13 | 0.84 | 1.91 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 47 | 0.14 | 0.76 | 1.62 | 98 | 1.7 | 12 | 0/-18 |
| FE15T8 | 3 | 347 | 38 | 0.12 | 0.82 | 2.16 | 91 | 1.7 | 36 | 0/-18 |
| | 4 | 347 | 87 | 0.25 | 0.89 | 1.02 | 99 | 1.7 | 10 | 0/-18 |
| F25T12 | 3 | 347 | 72 | 0.21 | 0.97 | 1.35 | 99 | 1.7 | 10 | 0/-18 |

Safety and performance



UL Class P



UL Type 1 Outdoor



UL Type HL

ICES-005 for EMI and RFI FCC – CLASS A Non-Consumer

ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 Product is compliant with material restriction requirements of RoHS

UltraMax® General Series 347V Instant Start High Performance T8 Instant Start Ballasts

74099 – GE259MAX-G-347 (Replaces GE259-N-347)

UltraMax® G-Series 347V Instant Start High-Efficiency

2 or 1– F96T8 347V “N” 0.87 BF UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Light-weight, Slim Profile Mini Can Housing
- Parallel lamp operation means system maintenance is easier to manage
- Cold temperature 0°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 74099 | 74100 | | |

Dimensions

Wiring diagram – LFL 18 – see example on Page 10-61
Case dimensions – Ref Drawing -A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.04lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths


| | |
|-------|-----------------|
| Black | 22 in (559 mm) |
| White | 22 in (559 mm) |
| Blue | 46 in (1168 mm) |
| Red | 78 in (1981 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F96T8 | 2 | 347 | 108 | 0.31 | 0.88 | 0.81 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 347 | 67 | 0.20 | 1.06 | 1.58 | 9798 | 1.7 | 10 | 0/-18 |
| F96T8/WM | 2 | 347 | 102 | 0.29 | 0.88 | 0.86 | 9999 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 64 | 0.19 | 1.05 | 1.64 | 9798 | 1.7 | 10 | 60/16 |
| F96T8/WMP | 2 | 347 | 95 | 0.27 | 1.05 | 1.11 | 9999 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 60 | 0.17 | 1.26 | 2.10 | 9698 | 1.7 | 10 | 60/16 |

Safety and performance





 ICES-005 for EMI and RFI FCC – CLASS A Non-Consumer

ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 Product is compliant with material restriction requirements of RoHS

ProLine® T8 Instant Start 120V and 277V High Performance

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

23673 – GE-332-120-N

ProLine® T8 Instant Start High Performance

3 or 2 – F32T8 120V “N” .87 BF ProLine®

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic – Standard Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A(20-24 decibels) |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 23673 | 24165 | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 3 | 120 | 85 | 0.73 | 0.87 | 1.02 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 65 | 0.56 | 0.94 | 1.44 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 79 | 0.68 | 0.86 | 1.08 | 99 | 1.7 | 10 | 60/16 |
| F32T8/WM | 2 | 120 | 60 | 0.51 | 0.94 | 1.56 | 99 | 1.7 | 10 | 60/16 |
| F40T8 | 2 | 120 | 78 | 0.67 | | | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 72 | 0.62 | 0.84 | 1.16 | 99 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 120 | 54 | 0.47 | 0.91 | 1.68 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 69 | 0.60 | 0.87 | 1.26 | 99 | 1.7 | 10 | 0/-18 |
| F25T12 | 2 | 120 | 54 | 0.46 | 0.94 | 1.74 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 67 | 0.58 | 0.87 | 1.29 | 99 | 1.7 | 10 | 0/-18 |
| F25T8 | 2 | 120 | 51 | 0.44 | 0.97 | 1.90 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 47 | 0.41 | 0.91 | 1.93 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 30 | 0.31 | 0.97 | 3.23 | 99 | 1.7 | 12 | 0/-18 |
| F17T8 | 2 | 120 | 30 | 0.26 | 0.98 | 3.26 | 98 | 1.7 | 13 | 0/-18 |

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Lightweight, low-profile housing
- < 10% THD, > 99% power factor
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality, with no visible striations

Dimensions

Wiring diagram – LFL 1C – see example on Page 10-61
Case dimensions – Ref Drawing -A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------|-----------------|
| Black | 25 in (635 mm) |
| Red | 45 in (1143 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |

Safety and performance



UL Type 1 Outdoor



UL Type HL

FCC – CLASS A Non-Consumer



UL Class P



US LISTED

Product is compliant with material restriction requirements of RoHS

ProLine® T8 Instant Start 120V and 277V High Performance T8 Instant Start Ballasts For 46 – 59W 4 ft – 8 ft Slimline Lamps

23677 – GE-259-120-N

ProLine® T8 Instant Start High Performance

2 or 1 – F96T8 120V Normal Light .87 BF ProLine®

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Lightweight, low-profile housing
- < 10% THD, > 99% power factor
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality, with no visible striations

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic – Standard Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| | | | |
|----------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 23677 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F96T8 | 2 | 120 | 112 | 0.96 | 0.87 | 0.77 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 71 | 0.61 | 1.04 | 1.46 | 99 | 1.7 | 10 | 0/-18 |
| F96T8/WM | 2 | 120 | 104 | 0.89 | 0.87 | 0.83 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 65 | 0.56 | 1.04 | 1.60 | 99 | 1.7 | 10 | 0/-18 |
| F96T8/WMP | 1 | 120 | | | | | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | | | | | 99 | 1.7 | 10 | 0/-18 |

Dimensions

Wiring diagram – LFL 1B – see example on Page 10-61

Case dimensions – Ref Drawing - A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|----------------------------------|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------|------------------------|
| | Length (± 1 in) |
| Black | 25 in (635 mm) |
| Red | 66 in (1676 mm) |
| White | 25 in (635 mm) |
| Blue | 58 in (1473 mm) |

Safety and performance



UL Type 1 Outdoor



UL Type HL

FCC – CLASS A Non-Consumer



UL Class P



LISTED

Product is compliant with material restriction requirements of RoHS

Residential Grade ProLine® T8 120V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

97782 – GE232-120-RES

Residential Grade ProLine® T8 120V

2 or 1- F32T8 120V "N" 0.87 BF Residential ProLine®

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – Standard Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 97782 | | 93884 | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 2 | 120 | 54 | 0.8 | 0.83 | 1.54 | 55 | 1.7 | 79 | 0/-18 |
| | 1 | 120 | 33 | 0.55 | 0.99 | 3.00 | 51 | 1.7 | 82 | 0/-18 |
| F32T8/WM | 2 | 120 | 50 | 0.76 | 0.82 | 1.64 | 55 | 1.7 | 80 | 60/16 |
| | 1 | 120 | 32 | 0.53 | 0.99 | 3.09 | 50 | 1.7 | 83 | 60/16 |
| F28T8 | 2 | 120 | 47 | 0.72 | 0.81 | 1.72 | 54 | 1.7 | 81 | 60/16 |
| | 1 | 120 | 30 | 0.5 | 0.97 | 3.23 | 50 | 1.7 | 83 | 60/16 |
| F25T8 | 2 | 120 | 42 | 0.65 | 0.88 | 2.10 | 53 | 1.7 | 82 | 0/-18 |
| | 1 | 120 | 26 | 0.45 | 1.04 | 4.00 | 48 | 1.7 | 84 | 0/-18 |
| F17T8 | 2 | 120 | 30 | 0.49 | 0.88 | 2.93 | 49 | 1.7 | 85 | 0/-18 |
| | 1 | 120 | 19 | 0.35 | 1.03 | 5.42 | 45 | 1.7 | 85 | 0/-18 |

Safety and performance



UL Class P



UL Type 1 Outdoor



UL Type HL

FCC - CLASS B Consumer ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991

Product is compliant with material restriction requirements of RoHS

- Residential grade -instant start
- EMI/RFI meets FCC Class B Consumer Limits
- Meets ballast requirements of Energy Star Residential Lighting Fixture program
- Light-weight, Slim Profile Mini Can Housing

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1B – see example on Page 10-61 | |
| Case dimensions – Ref Drawing - A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.04 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

Residential Grade ProLine® T8 120V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

97783 – GE432-120-RES

Residential Grade ProLine® T8 120V

4 or 3 – F32T8 120V “N” .87 BF Residential ProLine®

- Residential grade -instant start
- EMI/RFI meets FCC Class B Consumer Limits
- Meets ballast requirements of Energy Star Residential Lighting Fixture program
- Light-weight, Slim Profile Mini Can Housing

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic - Standard Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-----------|
| Supply Current Frequency | 50Hz/60Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 97783 | | 93885 | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 4 | 120 | 105 | 1.62 | 0.83 | 0.79 | 57 | 1.7 | 78 | 0/-18 |
| | 3 | 120 | 86 | 1.38 | 0.88 | 1.02 | 55 | 1.7 | 79 | 0/-18 |
| | 4 | 120 | 98 | 1.50 | 0.81 | 0.82 | 56 | 1.7 | 80 | 60/16 |
| F32T8/W/M | 3 | 120 | 81 | 1.29 | 0.88 | 1.08 | 54 | 1.7 | 80 | 60/16 |
| | 4 | 120 | 90 | 1.42 | 0.79 | 0.87 | 55 | 1.7 | 80 | 60/16 |
| F28T8 | 3 | 120 | 75 | 1.23 | 0.87 | 1.16 | 53 | 1.7 | 80 | 60/16 |
| | 4 | 120 | 83 | 1.31 | 0.87 | 1.04 | 54 | 1.7 | 82 | 0/-18 |
| F25T8 | 3 | 120 | 68 | 1.13 | 0.94 | 1.38 | 52 | 1.7 | 81 | 0/-18 |
| | 4 | 120 | 58 | 0.98 | 0.86 | 1.48 | 51 | 1.7 | 85 | 0/-18 |
| F17T8 | 3 | 120 | 48 | 0.84 | 0.93 | 1.93 | 49 | 1.7 | 83 | 0/-18 |

Safety and performance



Product is compliant with material restriction requirements of RoHS

| Dimensions | |
|---|-----------------|
| Wiring diagram – LFL 1D – see example on Page 10-61 | |
| Case dimensions – Ref Drawing - A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.04 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| White and Black | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 31 in (787 mm) |
| Yellow | 47 in (1194 mm) |

Electromagnetic T8 120V and 277V Ballasts

T8 Rapid Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

87125 – GEM232T8RS120

Electromagnetic T8 Ballasts

2 – F32T8, RS, 120V, Magnetic Ballast (M232SR120C)

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Magnetic – Rapid Start |
| Starting Method | Rapid start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 5% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 87125 | | | 87125 |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp. (°F/°C) |
|---------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|-----------------------------|
| F32T8 | 2 | 120 | 73 | 0.65 | 0.92 | 1.25 | 93 | 1.7 | 6 | 50/10 |
| | 1 | 120 | 55 | 0.46 | 1.20 | 2.15 | 99 | 1.9 | 13 | 50/10 |
| F32T8/U | 2 | 277 | 73 | 0.65 | 0.92 | 1.25 | 93 | 1.7 | 6 | 50/10 |
| | 1 | 277 | 55 | 0.46 | 1.20 | 2.15 | 99 | 1.9 | 13 | 50/10 |
| F25T8 | 2 | 120 | 66 | 0.57 | 0.97 | 1.45 | 98 | 1.6 | 6 | 50/10 |
| | 1 | 120 | 50 | 0.43 | 1.00 | 2.00 | 99 | 1.9 | 16 | 50/10 |
| F25T8/U | 2 | 277 | 66 | 0.57 | 0.97 | 1.45 | 98 | 1.6 | 6 | 50/10 |
| | 1 | 277 | 50 | 0.43 | 1.00 | 2.00 | 99 | 1.9 | 16 | 50/10 |
| F17T8 | 2 | 120 | 53 | 0.45 | 1.00 | 1.90 | 99 | 1.9 | 12 | 50/10 |
| | 1 | 120 | 44 | 0.38 | 1.10 | 2.40 | 96 | 2.0 | 23 | 50/10 |
| F17T8/U | 2 | 277 | 53 | 0.45 | 1.00 | 1.90 | 99 | 1.9 | 12 | 50/10 |
| | 1 | 277 | 44 | 0.38 | 1.10 | 2.40 | 96 | 2.0 | 23 | 50/10 |

Safety and performance



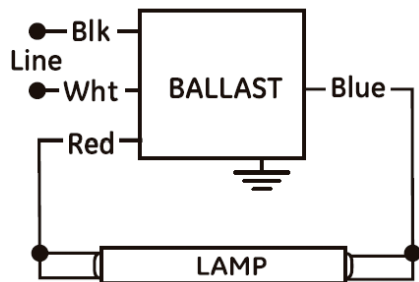
- Magnetic ballast construction for all general fluorescent lighting
- Extends lamp life in frequently switched applications
- Color coded ballast and package labels reduce misapplication errors (120V Yellow, 277V Red)
- Great for areas requiring no EMI/RFI noise
- Anti-striation control for better light quality, with no visible striations

| Dimensions | |
|---|-----------------|
| Wiring diagram – 87125 – see example on Page 10-61 | |
| Case dimensions – 87125 – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 2.4 in (61 mm) |
| Height (H) | 1.5 in (38 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.7 in (43 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 3.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Length (± 1 in) | |
| Blue and Red | 15 in (381 mm) |
| White and Black | 15 in (381 mm) |
| Yellow | 15 in (381 mm) |

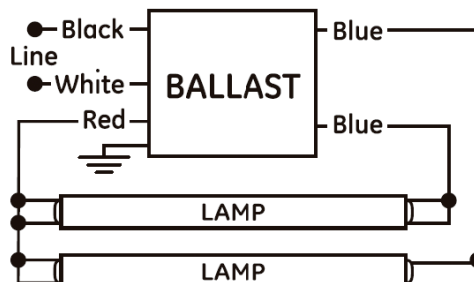
Wiring Diagrams

T8 Instant Start Ballasts

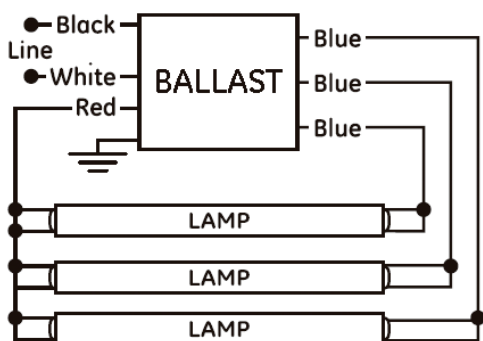
LFL 1A



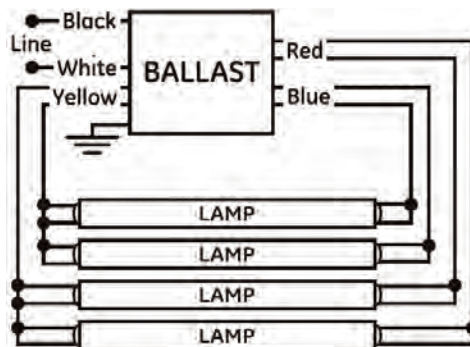
LFL 1B



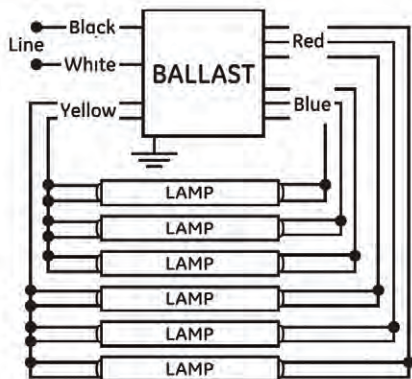
LFL 1C



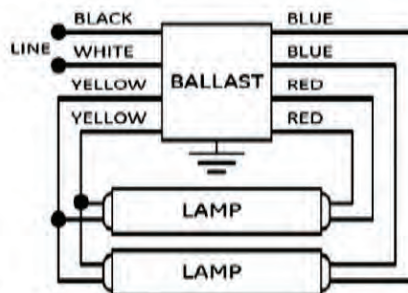
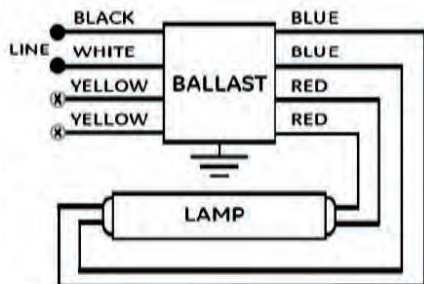
LFL 1D



LFL -6H



87125



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

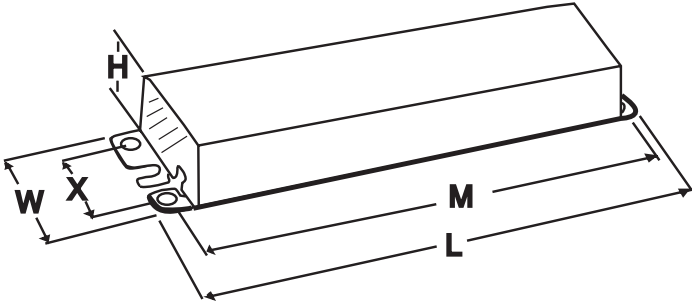
Compact Fluorescent

HID Electronic & Electromagnetic

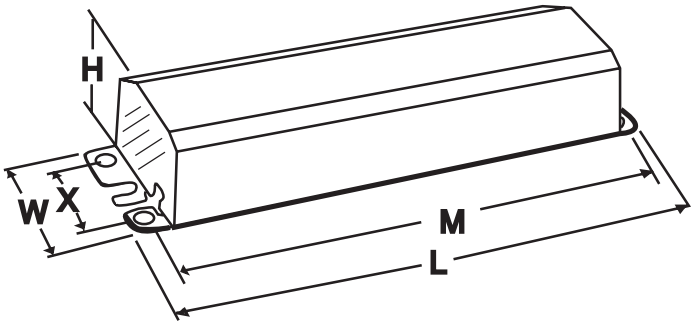
Case Dimensions

T8 Instant Start Ballasts

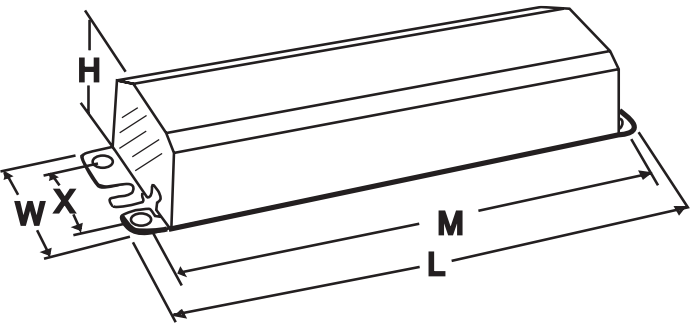
-A



ST



LG



87125

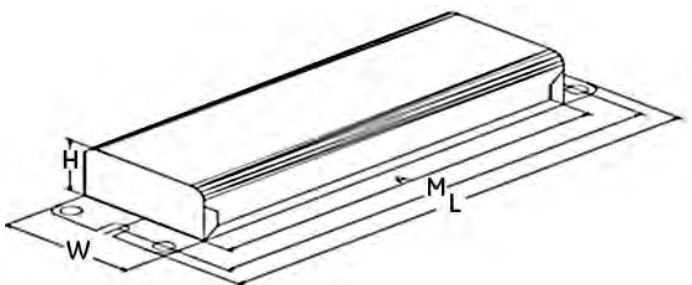


Table of Contents

T8 Programmed Start Ballasts

UltraStart® T8 120–277V Programmed Start
 For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps..... 11-2

Wiring Diagrams.....11-21

Case Dimensions11-22

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

75952 – GE132-MVPS-L

UltraStart® T8 Programmed Start

1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®

- A new generation of ultra-efficient Programmed Start ballasts
- Anti-striation circuitry reduces striations with energy saving lamps.
- Extends lamp life in frequently switched applications (>100,000 on/off cycles)
- Multi-voltage technology handles voltage from 120 to 277V
- Starting time visually the same as instant start
- Light-weight, Slim Profile Mini Can Housing






| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic - Program/ Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10 % |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70 °C (158 °F) |
| Ballast Factor | Low-PS (.71) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Inherently Thermally Protected, UL Class P, Universal voltage |




| Electrical characteristics | |
|--------------------------------|------------|
| Supply Current Frequency (MIN) | 50Hz/60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75952 | | | |

| Dimensions | |
|---|-------------------|
| Wiring diagram – LFL PS1 – see example on page 11-21 | |
| Case dimensions- Ref Drawing -A – see Page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25.0 in (635 mm) |
| White | 25.0 in (635 mm) |
| Blue | 33.0 in (838 mm) |
| Yellow | 47.0 in (1194 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F32T8 | 1 | 120 | 25 | 0.22 A | 0.72 | 2.88 | 99 | 1.7 | 10 | 0/-18 | |
| | 1 | 277 | 25 | 0.10 A | 0.72 | 2.88 | 96 | 1.7 | 10 | 0/-18 | |
| F32T8/WM | 1 | 120 | 23 | 0.20 A | 0.71 | 3.09 | 99 | 1.7 | 10 | 50/10 | |
| | 1 | 277 | 23 | 0.09 A | 0.71 | 3.09 | 95 | 1.7 | 10 | 50/10 | |
| F28T8 | 1 | 120 | 22 | 0.19 A | 0.71 | 3.23 | 99 | 1.7 | 10 | 50/10 | |
| | 1 | 277 | 22 | 0.09 A | 0.71 | 3.23 | 94 | 1.7 | 10 | 50/10 | |
| F32T8/25W | 1 | 120 | 20 | 0.18 A | 0.71 | 3.55 | 99 | 1.7 | 10 | 50/10 | |
| | 1 | 277 | 21 | 0.08 A | 0.71 | 3.38 | 94 | 1.7 | 10 | 50/10 | |
| F25T8 | 1 | 120 | 19 | 0.17 A | 0.73 | 3.65 | 93 | 1.7 | 10 | 0/-18 | |
| | 1 | 277 | 17 | 0.15 A | 0.71 | 4.18 | 99 | 1.7 | 10 | 50/10 | |
| F25T8/WM | 1 | 120 | 18 | 0.07 A | 0.71 | 3.94 | 92 | 1.7 | 10 | 50/10 | |
| | 1 | 277 | 14 | 0.12 A | 0.75 | 5.36 | 99 | 1.7 | 10 | 0/-18 | |
| F17T8 | 1 | 120 | 15 | 0.06 A | 0.75 | 5.00 | 89 | 1.7 | 10 | 0/-18 | |
| | 1 | 277 | 13 | 0.11 A | 0.74 | 5.69 | 99 | 1.7 | 10 | 50/10 | |
| F17T8/WM | 1 | 120 | 13 | 0.06 A | 0.74 | 5.69 | 87 | 1.7 | 10 | 50/10 | |
| | 1 | 277 | 12 | 0.10 A | 0.66 | 5.50 | 99 | 1.7 | 10 | 0/-18 | |
| FE15T8 | 1 | 120 | 13 | 0.10 A | 0.66 | 5.08 | 86 | 1.7 | 10 | 0/-18 | |
| | 1 | 277 | 29 | 0.25 A | 0.71 | 2.45 | 99 | 1.7 | 10 | 0/-18 | |
| F40T8 | 1 | 120 | 29 | 0.11 A | 0.71 | 2.45 | 97 | 1.7 | 10 | 0/-18 | |
| | 1 | 277 | 20 | 0.18 A | 0.72 | 3.60 | 99 | 1.7 | 10 | 0/-18 | |
| F25T12 | 1 | 277 | 21 | 0.08 A | 0.72 | 3.43 | 94 | 1.7 | 10 | 0/-18 | |

Safety and performance  UL Type 1 Outdoor  UL Type HL  FCC – CLASS A Non-Consumer  UL Class P  ANSI – C62.41  Product is compliant with material restriction requirements of RoHS

 cUL Listed  UL Listed  **NEMA premium**

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

75953 – GE132-MVPS-N

UltraStart® T8 Programmed Start

1 F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®

- < 10% THD, > 99% power factor
- A new generation of ultra-efficient Programmed Start ballasts
- Anti-striation circuitry reduces striations with energy saving lamps.
- Extends lamp life in frequently switched applications (>100,000 on/off cycles)
- Multi-voltage technology handles voltage from 120 to 277V
- Starting time visually the same as instant start
- Light-weight, Slim Profile Mini Can Housing

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic - Program/ Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10 % |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70 °C (158 °F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Inherently Thermally Protected, UL Class P, Universal voltage |

| Electrical characteristics | |
|--------------------------------|------------|
| Supply Current Frequency | 50Hz |
| Supply Current Frequency (MIN) | 50Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75953 | | | |

| Dimensions | |
|--|-------------------|
| Wiring diagram – LFL PS1 – see example on page 11-21 | |
| Case dimensions- Ref Drawing -A – see Page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Length (± 1 in.) | |
| Yellow | 47.0 in (1194 mm) |
| White | 25.0 in (635 mm) |
| Red | 33.0 in (838 mm) |
| Blue | 33.0 in (838 mm) |
| Black | 25.0 in (635 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F32T8 | 1 | 120 | 30 | 0.26 A | 0.89 | 2.97 | 99 | 1.7 | 10 | 0/-18 | |
| | 1 | 277 | 30 | 0.12 A | 0.89 | 2.97 | 95 | 1.7 | 10 | 0/-18 | |
| F32T8/WM | 1 | 120 | 28 | 0.24 A | 0.87 | 3.11 | 99 | 1.7 | 10 | 50/10 | |
| | 1 | 277 | 28 | 0.11 A | 0.87 | 3.11 | 94 | 1.7 | 10 | 50/10 | |
| F28T8 | 1 | 120 | 26 | 0.22 A | 0.87 | 3.35 | 99 | 1.7 | 10 | 50/10 | |
| | 1 | 277 | 26 | 0.10 A | 0.87 | 3.35 | 93 | 1.7 | 10 | 50/10 | |
| F32T8/25W | 1 | 120 | 24 | 0.21 A | 0.86 | 3.58 | 99 | 1.7 | 10 | 50/10 | |
| | 1 | 277 | 24 | 0.10 A | 0.86 | 3.58 | 93 | 1.7 | 10 | 50/10 | |
| F25T8 | 1 | 120 | 24 | 0.09 A | 0.89 | 3.71 | 92 | 1.7 | 10 | 0/-18 | |
| | 1 | 277 | 24 | 0.20 A | 0.89 | 3.71 | 99 | 1.7 | 10 | 0/-18 | |
| F25T8/WM | 1 | 120 | 20 | 0.18 A | 0.88 | 4.40 | 99 | 1.7 | 10 | 50/10 | |
| | 1 | 277 | 20 | 0.18 A | 0.88 | 4.40 | 99 | 1.7 | 10 | 50/10 | |
| F17T8 | 1 | 120 | 21 | 0.08 A | 0.88 | 4.19 | 90 | 1.7 | 10 | 50/10 | |
| | 1 | 277 | 17 | 0.15 A | 0.91 | 5.35 | 99 | 1.7 | 10 | 0/-18 | |
| F17T8/WM | 1 | 120 | 18 | 0.07 A | 0.91 | 5.06 | 87 | 1.7 | 10 | 0/-18 | |
| | 1 | 277 | 15 | 0.13 A | 0.90 | 6.00 | 99 | 1.7 | 10 | 50/10 | |
| FE15T8 | 1 | 120 | 15 | 0.07 A | 0.90 | 6.00 | 85 | 1.7 | 10 | 50/10 | |
| | 1 | 277 | 14 | 0.12 A | 0.80 | 5.71 | 99 | 1.7 | 10 | 0/-18 | |
| F40T8 | 1 | 120 | 15 | 0.06 A | 0.80 | 5.33 | 83 | 1.7 | 10 | 0/-18 | |
| | 1 | 277 | 35 | 0.31 A | 0.88 | 2.51 | 99 | 1.7 | 10 | 0/-18 | |
| F25T12 | 1 | 120 | 35 | 0.01 A | 0.88 | 2.51 | 96 | 1.7 | 10 | 0/-18 | |
| | 1 | 277 | 25 | 0.21 A | 0.89 | 3.56 | 99 | 1.7 | 10 | 0/-18 | |
| | 1 | 277 | 25 | 0.10 A | 0.89 | 3.56 | 93 | 1.7 | 10 | 0/-18 | |

Safety and performance

 UL Type 1 Outdoor
  UL Type HL
 FCC – CLASS A Non-Consumer
  UL Class P
 ANSI – C62.41
 Product is compliant with material restriction requirements of RoHS

cUL Listed  UL Listed  NEMA Premium

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

75954 – GE132-MVPS-H

UltraStart® T8 Programmed Start

1 F32T8 120V-277V High Light 1.18 BF <10% THD UltraStart®





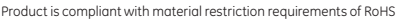
| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Program/ Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10 % |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70 °C (158 °F) |
| Ballast Factor | High (1.18) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |




| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency (MIN) | 60 Hz |


| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75954 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 1 | 120 | 39 | 0.35 A | 1.18 | 3.03 | 98 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 39 | 0.15 A | 1.18 | 3.03 | 97 | 1.7 | 10 | 0/-18 |
| F32T8/WM | 1 | 120 | 36 | 0.32 A | 1.16 | 3.22 | 99 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 36 | 0.14 A | 1.16 | 3.22 | 96 | 1.7 | 10 | 50/10 |
| F28T8 | 1 | 120 | 33 | 0.29 A | 1.16 | 3.52 | 99 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 33 | 0.13 A | 1.16 | 3.52 | 96 | 1.7 | 10 | 50/10 |
| F32T8/25W | 1 | 120 | 31 | 0.27 A | 1.15 | 3.71 | 99 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 31 | 0.12 A | 1.15 | 3.71 | 95 | 1.7 | 10 | 50/10 |
| F25T8 | 1 | 120 | 30 | 0.27 A | 1.17 | 3.90 | 95 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 30 | 0.12 A | 1.17 | 3.90 | 99 | 1.7 | 10 | 0/-18 |
| F25T8/WM | 1 | 120 | 26 | 0.23 A | 1.16 | 4.46 | 99 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 27 | 0.10 A | 1.16 | 4.30 | 94 | 1.7 | 10 | 50/10 |
| F17T8 | 1 | 120 | 21 | 0.19 A | 1.19 | 5.67 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 22 | 0.09 A | 1.19 | 5.41 | 91 | 1.7 | 10 | 0/-18 |
| F17T8/WM | 1 | 120 | 19 | 0.17 A | 1.18 | 6.21 | 99 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 19 | 0.08 A | 1.18 | 6.21 | 89 | 1.7 | 10 | 50/10 |
| FE15T8 | 1 | 120 | 17 | 0.15 A | 1.05 | 6.18 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 18 | 0.08 A | 1.05 | 5.83 | 88 | 1.7 | 10 | 0/-18 |
| F40T8 | 1 | 120 | 48 | 0.42 A | 1.18 | 2.46 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 47 | 0.18 A | 1.18 | 2.51 | 98 | 1.7 | 10 | 0/-18 |
| F25T12 | 1 | 120 | 33 | 0.29 A | 1.25 | 3.79 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 33 | 0.13 A | 1.25 | 3.79 | 96 | 1.7 | 10 | 0/-18 |

Safety and performance

 UL Type 1 Outdoor
  UL Type HL
 FCC – CLASS A Non-Consumer
  UL Class P
  ANSI – C62.41
  Product is compliant with material restriction requirements of RoHS

 cUL Listed
  UL Listed
  NEMA Premium

 NRCAN

High Temperature Rated: Suitable for high temperature applications 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty

- A new generation of ultra-efficient Programmed Start ballasts
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Multi-voltage technology handles voltage from 120 to 277V
- Anti-striation circuitry reduces striations with energy saving lamps.

| Dimensions | |
|---|-------------------------|
| Wiring diagram – LFL PS1 – see example on page 11-21 | |
| Case dimensions- Ref Drawing -A – see Page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (+ 1 in.) |
| Yellow | 47.0 in (1194 mm) |
| White | 25.0 in (635 mm) |
| Black | 25.0 in (635 mm) |
| Blue | 33.0 in (838 mm) |

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

96714 – GE232-MVPS-N

UltraStart® T8 Programmed Start

2 or 1 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®

- < 10% THD, > 99% power factor
- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Anti-striation circuitry reduces striations with energy saving lamps
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Multi-voltage technology handles voltage from 120 to 277V
- Light-weight, Slim Profile Mini Can Housing

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature [MAX] | 104°F (40°C) |
| Case Temperature [MAX] | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Additional Info | Anti-striation control, Inherently Thermally Protected, UL Class P, Universal voltage |

| Electrical characteristics | |
|--------------------------------|---|
| Supply Current Frequency | 50 Hz/Supply Current Frequency (MIN)/ 50 Hz/ 60 (MIN) |
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 96714 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 2 | 120 | 59 | 0.48 A | 0.89 | 1.50 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 58 | 0.21 A | 0.89 | 1.53 | 96 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 37 | 0.30 A | 1.05 | 2.83 | 98 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 37 | 0.14 A | 1.05 | 2.83 | 93 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 55 | 0.45 A | 0.88 | 1.60 | 99 | 1.7 | 10 | 50/10 |
| | 2 | 277 | 54 | 0.20 A | 0.88 | 1.62 | 96 | 1.7 | 10 | 50/10 |
| F32T8/W/M | 1 | 120 | 34 | 0.28 A | 1.02 | 3.00 | 98 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 34 | 0.13 A | 1.02 | 3.00 | 93 | 1.7 | 10 | 50/10 |
| | 2 | 120 | 51 | 0.42 A | 0.86 | 1.68 | 99 | 1.7 | 10 | 50/10 |
| | 2 | 277 | 50 | 0.18 A | 0.86 | 1.72 | 95 | 1.7 | 10 | 50/10 |
| | 1 | 120 | 32 | 0.26 A | 1.00 | 3.12 | 98 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 32 | 0.12 A | 1.00 | 3.12 | 92 | 1.7 | 10 | 50/10 |

Other compatible lamps: F17T8, F25T8, F32T8/25W

Safety and performance



Product is compliant with material restriction requirements of RoHS

96720 – GE232-MVPS-L

UltraStart® T8 Programmed Start

2 or 1 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Anti-striation circuitry reduces striations with energy saving lamps
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature [MAX] | 104°F (40°C) |
| Case Temperature [MAX] | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Additional Info | Anti-striation control, Inherently Thermally Protected, UL Class P, Universal voltage |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 96720 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 2 | 120 | 47 | 0.39 A | 0.71 | 1.51 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 47 | 0.17 A | 0.71 | 1.51 | 95 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 30 | 0.28 A | 0.81 | 2.70 | 98 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 30 | 0.11 A | 0.81 | 2.70 | 90 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 44 | 0.36 A | 0.67 | 1.52 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 44 | 0.16 A | 0.67 | 1.52 | 95 | 1.7 | 10 | 60/16 |
| F32T8/W/M | 1 | 120 | 28 | 0.26 A | 0.79 | 2.82 | 98 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 28 | 0.11 A | 0.79 | 2.82 | 90 | 1.7 | 10 | 60/16 |
| | 2 | 120 | 41 | 0.34 A | 0.65 | 1.58 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 41 | 0.15 A | 0.65 | 1.58 | 94 | 1.7 | 10 | 60/16 |
| | 1 | 120 | 26 | 0.24 A | 0.77 | 2.96 | 98 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 26 | 0.10 A | 0.77 | 2.96 | 90 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 277 | 38 | 0.14 A | 0.73 | 1.92 | 94 | 1.7 | 16 | 0/-18 |
| | 2 | 120 | 37 | 0.31 A | 0.73 | 1.97 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 25 | 0.09 A | 0.86 | 3.44 | 85 | 1.7 | 16 | 0/-18 |
| | 1 | 120 | 24 | 0.23 A | 0.86 | 3.58 | 97 | 1.7 | 10 | 0/-18 |

Other compatible lamps: F17T8, F32T8/25W

Safety and performance



FCC – CLASS A Non-Consumer ANSI – C62.41

See page E-1 for warranty information.

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

29675 – GE-232-MVPS-H

UltraStart® T8 Programmed Start

2 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Multi-voltage technology handles voltage from 120 to 277V (H and XL series)
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic – Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20–24 decibels) |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 29675 | 29651 | | |

Dimensions

| | |
|---|-----------------|
| Wiring diagram – LFL PS2 – see example on page 11-21 | |
| Case dimensions – Ref Drawing – A – see Page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 2.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Length (± 1 in) | |
| Blue and Red | 33 in (838 mm) |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Yellow | 47 in (1194 mm) |
| Blue | 33 in (838 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|----------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 2 | 120 | 75 | 0.64 A | 1.15 | 1.53 | 98 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 74 | 0.28 A | 1.15 | 1.55 | 94 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 47 | 0.19 A | 1.37 | 2.91 | 90 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 46 | 0.40 A | 1.37 | 2.97 | 98 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 69 | 0.60 A | 1.14 | 1.65 | 98 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 69 | 0.27 A | 1.14 | 1.65 | 95 | 1.7 | 10 | 60/16 |
| F32T8/WM | 1 | 120 | 43 | 0.36 A | 1.34 | 3.11 | 98 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 43 | 0.18 A | 1.34 | 3.11 | 90 | 1.7 | 10 | 60/16 |
| | 2 | 120 | 63 | 0.54 A | 1.10 | 1.74 | 94 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 62 | 0.25 A | 1.11 | 1.79 | 98 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 39 | 0.16 A | 1.29 | 3.30 | 89 | 1.7 | 10 | 60/16 |
| | 1 | 120 | 38 | 0.32 A | 1.29 | 3.39 | 98 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 120 | 59 | 0.50 A | 1.14 | 1.93 | 98 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 59 | 0.24 A | 1.14 | 1.93 | 93 | 1.7 | 16 | 0/-18 |
| | 1 | 120 | 37 | 0.32 A | 1.34 | 3.62 | 98 | 1.7 | 10 | 0/-18 |
| F25T8 | 1 | 277 | 37 | 0.15 A | 1.34 | 3.62 | 87 | 1.7 | 21 | 0/-18 |

Other compatible lamps: F17T8, F32T8/25W

Safety and performance



High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

29671 – GE-232-MVPS-XL

UltraStart® T8 Programmed Start
2 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD

- A new generation of ultra-efficient Programmed Start ballasts
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Multi-voltage technology handles voltage from 120 to 277V (H and XL series)
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic – Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Ultra low |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|--------------|
| Supply Current Frequency | 50 Hz/ 60 Hz |
|--------------------------|--------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 29671 | | | |

Dimensions

Wiring diagram – LFL PS2 – see example on page 11-21

Case dimensions – Ref Drawing – A – see Page 11-22

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths **Length (± 1 in)**

| | |
|-----------------|-----------------|
| Blue and Red | 33 in (838 mm) |
| White and Black | 25 in (635 mm) |
| Yellow | 47 in (1194 mm) |



Specifications by lamp and wattage


| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|----------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 2 | 120 | 45 | 0.39 A | 0.60 | 1.33 | 98.0 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 44 | 0.19 A | 0.60 | 1.36 | 90.0 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 28 | 0.12 A | 0.70 | 2.50 | 83.0 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 27 | 0.24 A | 0.70 | 2.59 | 98.0 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 42 | 0.15 A | 0.59 | 1.40 | 99.0 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 42 | 0.24 A | 0.59 | 1.40 | 87.0 | 1.7 | 10 | 60/16 |
| F32T8/MM | 1 | 120 | 27 | 0.22 A | 0.68 | 2.51 | 0.9 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 27 | 0.20 A | 0.68 | 2.51 | 81.0 | 1.7 | 10 | 60/16 |
| | 2 | 120 | 39 | 0.12 A | 0.59 | 1.51 | 99.0 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 39 | 0.15 A | 0.59 | 1.51 | 86.0 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 25 | 0.12 A | 0.67 | 2.68 | 79.0 | 1.7 | 10 | 60/16 |
| | 1 | 120 | 24 | 0.20 A | 0.67 | 2.68 | 98.0 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 120 | 36 | 0.31 A | 0.61 | 1.69 | 98.0 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 36 | 0.15 A | 0.61 | 1.69 | 87.0 | 1.7 | 15 | 0/-18 |
| | 1 | 277 | 23 | 0.10 A | 0.68 | 2.95 | 79.0 | 1.7 | 16 | 0/-18 |
| | 1 | 120 | 22 | 0.20 A | 0.68 | 3.09 | 98.0 | 1.7 | 10 | 0/-18 |

Other compatible lamps: F17T8, F32T8/25W

Safety and performance

Product is compliant with material restriction requirements of RoHS

 UL Type 1 Outdoor
 ANSI – C62.41
  UL Type HL
  NRCan
 FCC Part 18 Class B at 120 Volts

 UL Class P
 cUL Listed
  UL Listed

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

29676 – GE-332-MVPS-H

UltraStart® T8 Programmed Start

3 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |







| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 29676 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 3 | 120 | 110 | 0.95 A | 1.15 | 1.04 | 98 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 108 | 0.41 A | 1.15 | 1.06 | 96 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 82 | 0.70 A | 1.28 | 1.56 | 98 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 82 | 0.32 A | 1.28 | 1.56 | 94 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 102 | 0.88 A | 1.13 | 1.10 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 100 | 0.39 A | 1.14 | 1.14 | 96 | 1.7 | 10 | 60/16 |
| F32T8/WM | 2 | 120 | 77 | 0.64 A | 1.26 | 1.63 | 98 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 76 | 0.30 A | 1.26 | 1.65 | 95 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 92 | 0.79 A | 1.09 | 1.18 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 91 | 0.35 A | 1.10 | 1.20 | 96 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 69 | 0.27 A | 1.23 | 1.78 | 94 | 1.7 | 10 | 60/16 |
| | 2 | 120 | 68 | 0.58 A | 1.23 | 1.81 | 98 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 120 | 86 | 0.74 A | 1.14 | 1.32 | 98 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 85 | 0.33 A | 1.14 | 1.34 | 96 | 1.7 | 14 | 0/-18 |
| | 2 | 120 | 65 | 0.56 A | 1.25 | 1.92 | 98 | 1.7 | 10 | 0/-18 |
| F25T8 | 2 | 277 | 64 | 0.26 A | | | 93 | 1.7 | 16 | 0/-18 |

Other compatible lamps: F17T8, F32T8/25W

Safety and performance

 UL Type 1 Outdoor
  UL Type HL
  NEMA Premium
 Product is compliant with material restriction requirements of RoHS
  FCC – CLASS A Non-Consumer
  ANSI – C62.41
  UL Class P

cUL Listed  UL Listed

High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Multi-voltage technology handles voltage from 120 to 277V (H and XL series)
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps

| Dimensions | |
|---|------------------------|
| Wiring diagram – LFL PS3 – see example on page 11-21 | |
| Case dimensions – Ref Drawing – A – see Page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 2.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in) |
| White and Black | 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

UltraStart® T8 120-277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

96715 – GE332-MVPS-N

UltraStart® T8 Programmed Start

3 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic - Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 104°F (40°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Additional Info | Anti-striation control, TCLP compliant, Inherently Thermally Protected, UL Class P, Universal voltage |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 96715 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 3 | 120 | 86 | 0.72 A | 0.89 | 1.03 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 84 | 0.30 A | 0.89 | 1.05 | 97 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 66 | 0.54 A | 0.98 | 1.48 | 98 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 65 | 0.24 A | 0.98 | 1.50 | 95 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 80 | 0.66 A | 0.86 | 1.07 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 79 | 0.28 A | 0.86 | 1.08 | 97 | 1.7 | 10 | 60/16 |
| F32T8/W/M | 2 | 120 | 61 | 0.51 A | 0.96 | 1.57 | 98 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 61 | 0.22 A | 0.96 | 1.57 | 95 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 73 | 0.61 A | 0.84 | 1.15 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 72 | 0.26 A | 0.84 | 1.16 | 97 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 120 | 57 | 0.47 A | 0.93 | 1.63 | 98 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 57 | 0.21 A | 0.93 | 1.63 | 95 | 1.7 | 10 | 60/16 |

Other compatible lamps: F17T8, F25T8, F32T8/25W

Safety and performance

Product is compliant with material restriction requirements of RoHS

 UL Listed
  NEMA Premium
  UL Type 1 Outdoor
  ANSI - C62.41
  UL Type HL
  FCC - CLASS A Non-Consumer
  UL Class P

96721 – GE332-MVPS-L

UltraStart® T8 Programmed Start

3 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic - Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 104°F (40°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Additional Info | Anti-striation control, Inherently Thermally Protected, UL Class P, Universal voltage |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 96721 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 3 | 120 | 69 | 0.60 A | 0.71 | 1.02 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 68 | 0.26 A | 0.71 | 1.04 | 96 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 52 | 0.45 A | 0.77 | 1.48 | 98 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 52 | 0.19 A | 0.77 | 1.48 | 92 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 63 | 0.54 A | 0.67 | 1.06 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 62 | 0.24 A | 0.67 | 1.08 | 95 | 1.7 | 10 | 60/16 |
| F32T8/W/M | 2 | 120 | 48 | 0.40 A | 0.75 | 1.56 | 98 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 48 | 0.18 A | 0.75 | 1.56 | 92 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 58 | 0.49 A | 0.66 | 1.13 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 58 | 0.22 A | 0.66 | 1.13 | 95 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 120 | 45 | 0.38 A | 0.74 | 1.64 | 98 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 45 | 0.17 A | 0.74 | 1.64 | 92 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 58 | 0.22 A | 0.66 | 1.13 | 95 | 1.7 | 15 | 0/-18 |
| F25T8 | 3 | 120 | 54 | 0.45 A | 0.74 | 1.37 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 41 | 0.35 A | 0.82 | 2.00 | 98 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 41 | 0.158 A | 0.82 | 2.00 | 0.82 | 1.7 | 15 | 0/-18 |

Other compatible lamps: F17T8, F32T8/25W

Safety and performance

 UL Type 1 Outdoor
  UL Type HL
 Product is compliant with material restriction requirements of RoHS
  FCC - CLASS A Non-Consumer
  UL Class P
  ANSI - C62.41

See page E-1 for warranty information.

 UL Listed
  UL Listed
  NEMA Premium

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Anti-striation circuitry reduces striations with energy saving lamps
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Parallel lamp operation means system maintenance is easier to manage
- Starting time visually the same as instant start

Dimensions

Wiring diagram – LFL P53 – see example on page 11-21

Case dimensions – Ref Drawing – A – see Page 11-22

| Length (L) | 9.5 in (241 mm) |
|--|-----------------|
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| | Length (± 1 in) |
| White and Black | 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Anti-striation circuitry reduces striations with energy saving lamps
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage

Dimensions

Wiring diagram – LFL P53 – see example on page 11-21

Case dimensions – Ref Drawing – A – see Page 11-22

| Length (L) | 9.5 in (241 mm) |
|--|-----------------|
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| | Length (± 1 in) |
| White and Black | 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

29672 – GE-332-MVPS-XL

UltraStart® T8 Programmed Start
3 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD

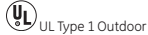



| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Ultra low |
| Power Factor Correction | Active |
| Sound Rating | A (20–24 decibels) |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 29672 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 3 | 120 | 67 | 0.58 A | 0.60 | 0.89 | 98 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 66 | 0.26 A | 0.60 | 0.90 | 93 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 50 | 0.21 A | 0.64 | 1.28 | 92 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 49 | 0.42 A | 0.64 | 1.30 | 98 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 61 | 0.53 A | 0.59 | 0.96 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 60 | 0.24 A | 0.59 | 0.98 | 94 | 1.7 | 10 | 60/16 |
| F32T8/MM | 2 | 120 | 45 | 0.04 A | 0.64 | 1.42 | 98 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 45 | 0.18 A | 0.64 | 1.42 | 92 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 57 | 0.49 A | 0.58 | 1.01 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 56 | 0.22 A | 0.58 | 1.03 | 94 | 1.7 | 10 | 60/16 |
| | 2 | 120 | 42 | 0.35 A | 0.63 | 1.50 | 98 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 42 | 0.17 A | 0.63 | 1.50 | 91 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 120 | 53 | 0.45 A | 0.60 | 1.13 | 98 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 53 | 0.21 A | 0.60 | 1.13 | 92 | 1.7 | 13 | 0/-18 |
| | 2 | 120 | 40 | 0.35 A | 0.64 | 1.60 | 98 | 1.7 | 10 | 0/-18 |
| F25T8 | 2 | 277 | 40 | 0.16 A | 0.64 | 1.60 | 89 | 1.7 | 14 | 0/-18 |

Other compatible lamps: F17T8, F32T8/25W

Safety and performance   Product is compliant with material restriction requirements of RoHS FCC – CLASS A Non-Consumer  
ANSI – C62.41 cUL Listed

29625 – GE-432-120-PS-N

UltraStart® T8 Programmed Start
4 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®

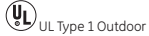



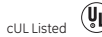

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20–24 decibels) |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 29625 | 29635 | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 4 | 120 | 112 | 0.95 A | 0.89 | 0.79 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 92 | 0.79 A | 0.96 | 1.04 | 99 | 1.7 | 10 | 0/-18 |
| | 4 | 120 | 106 | 0.92 A | 0.87 | 0.82 | 99 | 1.7 | 10 | 60/16 |
| F32T8/MM | 3 | 120 | 87 | 0.75 A | 0.94 | 1.08 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 120 | 96 | 0.83 A | 0.84 | 0.87 | 99 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 120 | 79 | 0.68 A | 0.91 | 1.15 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 120 | 87 | 0.75 A | 0.88 | 1.01 | 99 | 1.7 | 10 | 0/-18 |
| F25T8 | 3 | 120 | 73 | 0.63 A | 0.95 | 1.30 | 99 | 1.7 | 10 | 0/-18 |
| | 4 | 120 | 61 | 0.53 A | 0.89 | 1.45 | 99 | 1.7 | 10 | 50/10 |
| F17T8 | 3 | 120 | 51 | 0.44 A | 0.96 | 1.88 | 99 | 1.7 | 10 | 0/-18 |

Other compatible lamps: F32T8/25W

Safety and performance Product is compliant with material restriction requirements of RoHS   ANSI – C62.41 FCC – CLASS A Non-Consumer    

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Multi-voltage technology handles voltage from 120 to 277V (H and XL series)
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL PS3 – see example on page 11-21 | |
| Case dimensions – Ref Drawing – A – see Page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Length (± 1 in) | |
| White and Black | 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Multi-voltage technology handles voltage from 120 to 277V (H and XL series)
- Parallel lamp operation means system maintenance is easier to manage

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

96716 – GE432-MVPS-N

UltraStart® T8 Programmed Start

4 F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Anti-striation circuitry reduces striations with energy saving lamps
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic - Programmed / Rapid Start |
| Starting Method | Rapid start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 104°F (40°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Inherently Thermally Protected, UL Class P, Universal voltage |

| Electrical characteristics | |
|--------------------------------|--------------|
| Supply Current Frequency (MIN) | 50 Hz/ 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 96716 | | | |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL PS4 – see example on page 11-21 | |
| Case dimensions – Ref Drawing – A – see Page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Length (± 1 in) | |
| White and Black | 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Blue/White | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 4 | 120 | 114 | 0.97 A | 0.89 | 0.78 | 99 | 1.7 | 10 | 0/-18 |
| | 4 | 277 | 112 | 0.41 A | 0.89 | 0.79 | 97 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 93 | 0.78 A | 0.96 | 1.03 | 98 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 92 | 0.34 A | 0.96 | 1.04 | 95 | 1.7 | 10 | 0/-18 |
| | 4 | 120 | 105 | 0.88 A | 0.86 | 0.81 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 103 | 0.37 A | 0.86 | 0.83 | 97 | 1.7 | 10 | 60/16 |
| F32T8/WM | 3 | 120 | 86 | 0.72 A | 0.94 | 1.09 | 98 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 85 | 0.31 A | 0.94 | 1.10 | 95 | 1.7 | 10 | 60/16 |
| | 4 | 120 | 96 | 0.81 A | 0.83 | 0.86 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 95 | 0.35 A | 0.83 | 0.87 | 97 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 79 | 0.66 A | 0.92 | 1.16 | 98 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 78 | 0.29 A | 0.92 | 1.17 | 95 | 1.7 | 10 | 60/16 |

Other compatible lamps: F17T8, F25T8, F32T8/25W

Safety and performance Product is compliant with material restriction requirements of RoHS  UL Type 1 Outdoor  UL Type HL ANSI – C62.41 FCC – CLASS A Non-Consumer  UL Class P



71832 – GE432-MVPS-L

UltraStart® T8 Programmed Start

4 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Anti-striation circuitry reduces striations with energy saving lamps
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic - Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 104°F (40°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low - PS |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Inherently Thermally Protected, UL Class P, Universal voltage |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency | 50 Hz |
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

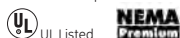
| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 71832 | | | |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL PS4 – see example on page 11-21 | |
| Case dimensions – Ref Drawing – A – see Page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Length (± 1 in) | |
| White and Black | 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Blue/White | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 4 | 120 | 90 | 0.39 A | 0.71 | 0.78 | 1 | 1.7 | 10 | 0/-18 |
| | 4 | 277 | 88 | 0.32 A | 0.71 | 0.80 | 1 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 72 | 0.68 A | 0.58 | 0.81 | 1 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 71 | 0.28 A | 0.58 | 0.82 | 1 | 1.7 | 10 | 0/-18 |
| | 4 | 120 | 85 | 0.71 A | 0.69 | 0.81 | 1 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 83 | 0.30 A | 0.69 | 0.83 | 1 | 1.7 | 10 | 60/16 |
| F32T8/WM | 3 | 120 | 68 | 0.58 A | 0.57 | 0.84 | 1 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 67 | 0.26 A | 0.57 | 0.85 | 1 | 1.7 | 10 | 60/16 |
| | 4 | 120 | 77 | 0.64 A | 0.68 | 0.88 | 1 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 76 | 0.28 A | 0.68 | 0.89 | 1 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 63 | 0.53 A | 0.55 | 0.88 | 1 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 63 | 0.23 A | 0.55 | 0.88 | 1 | 1.7 | 10 | 60/16 |

Other compatible lamps: F17T8, F25T8, F32T8/25W

Safety and performance Product is compliant with material restriction requirements of RoHS  UL Type 1 Outdoor ANSI – C62.41  UL Type HL FCC – CLASS A Non-Consumer  UL Class P



UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

74476 – GE-432-MVPS-H (replaces 29678)

UltraStart® T8 Programmed Start
4 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic – Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|------------------------|----------|---------|
| 74476 | 74477 (replaces 29657) | | |

Dimensions

Wiring diagram – LFL PS4 – see example on page 11-21
Case dimensions – Ref Drawing LG – see Page 11-22

| | |
|--|------------------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 2.4 in (61 mm) |
| Height (H) | 1.6 in (40 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.7 in (43 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 3.10 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| | Length (± 1 in) |
| White | 25 in (635 mm) |
| Black | 25 in (635 mm) |
| Red | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Blue | 33 in (838 mm) |
| Blue/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 4 | 120 | 147 | 1.27 A | 1.16 | 0.79 | 99 | 1.7 | 10 | 0/-18 |
| | 4 | 277 | 144 | 0.55 A | 1.16 | 0.81 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 120 | 1.03 A | 1.26 | 1.05 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 120 | 0.45 A | 1.26 | 1.05 | 99 | 1.7 | 10 | 0/-18 |
| | 4 | 120 | 139 | 1.20 A | 1.15 | 0.83 | 99 | 1.7 | 10 | 50/10 |
| | 4 | 277 | 136 | 0.52 A | 1.15 | 0.85 | 99 | 1.7 | 10 | 50/10 |
| F32T8/WM | 3 | 120 | 114 | 0.95 A | 1.24 | 1.08 | 99 | 1.7 | 10 | 50/10 |
| | 3 | 277 | 112 | 0.43 A | 1.24 | 1.11 | 99 | 1.7 | 10 | 50/10 |
| | 4 | 120 | 125 | 1.08 A | 1.12 | 0.90 | 99 | 1.7 | 10 | 50/10 |
| | 4 | 277 | 123 | 0.47 A | 1.12 | 0.91 | 99 | 1.7 | 10 | 50/10 |
| | 3 | 120 | 103 | 0.86 A | 1.21 | 1.17 | 99 | 1.7 | 10 | 50/10 |
| | 3 | 277 | 101 | 0.39 A | 1.21 | 1.20 | 99 | 1.7 | 10 | 50/10 |
| F28T8 | 4 | 120 | 112 | 0.94 A | 1.12 | 1.00 | 99 | 1.7 | 10 | 50/10 |
| | 4 | 277 | 111 | 0.42 A | 1.12 | 1.01 | 99 | 1.7 | 10 | 50/10 |
| | 3 | 120 | 92 | 0.79 A | 1.21 | 1.32 | 99 | 1.7 | 10 | 50/10 |
| | 3 | 277 | 91 | 0.35 A | 1.21 | 1.33 | 99 | 1.7 | 10 | 50/10 |
| | 4 | 120 | 117 | 1.00 A | 1.15 | 0.98 | 99 | 1.7 | 10 | 0/-18 |
| | 4 | 277 | 115 | 0.44 A | 1.15 | 1.00 | 99 | 1.7 | 10 | 0/-18 |
| F32T8/25W | 3 | 120 | 97 | 0.83 A | 1.23 | 1.27 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 96 | 0.37 A | 1.23 | 1.28 | 99 | 1.7 | 10 | 0/-18 |
| | 4 | 120 | 81 | 0.69 A | 1.15 | 1.42 | 99 | 1.7 | 10 | 0/-18 |
| | 4 | 277 | 80 | 0.31 A | 1.15 | 1.44 | 98 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 67 | 0.58 A | 1.23 | 1.84 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 67 | 0.26 A | 1.23 | 1.84 | 99 | 1.7 | 10 | 0/-18 |

Safety and performance

Product is compliant with material restriction requirements of RoHS ANSI – C62.41  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer  UL Class P

cUL Listed  UL Listed 

High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

62721 - GE232PS347-L

UltraStart® T8 Programmed Start

2 or 1 F32T8 347V Low Watt .71 BF UltraStart®

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps
- < 10% THD, > 99% power factor

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low-PS (.71) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, Thermally protected, Universal voltage, TCLP compliant, Auto-restart |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 62721 | | | |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL PS2 – see example on page 11-21 | |
| Case dimensions – Ref Drawing – A – see page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.1 in (29 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| | Length (± 1 in) |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 33 in (838 mm) |
| Red | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F40T8 | 2 | 347 | 36 | 0.11 A | 0.81 | | 95 | 1.7 | 10 | 60/16 | |
| | 2 | 347 | 27 | 0.08 A | 0.83 | | 95 | 1.7 | 12 | 60/16 | |
| F32T8/WM | 1 | 347 | 43 | 0.13 A | 0.71 | | 95 | 1.7 | 10 | 60/16 | |
| | 2 | 347 | 24 | 0.07 A | 0.77 | | 95 | 1.7 | 12 | 60/16 | |
| F32T8/25W | 1 | 347 | 37 | 0.11 A | 0.71 | | 95 | 1.7 | 10 | 60/16 | |
| | 2 | 347 | 29 | 0.09 A | 0.85 | | 95 | 1.7 | 12 | 0/-18 | |
| | 2 | 347 | 25 | 0.08 A | 0.80 | | 95 | 1.7 | 12 | 60/16 | |
| F32T8 | 1 | 347 | 47 | 0.14 A | 0.71 | | 95 | 1.7 | 10 | 0/-18 | |
| | 1 | 347 | 40 | 0.12 A | 0.71 | | 95 | 1.7 | 10 | 60/16 | |
| F25T8/WM | 2 | 347 | 32 | 0.10 A | 0.71 | | 95 | 1.7 | 15 | 60/16 | |
| | 1 | 347 | 21 | 0.07 A | 0.78 | | 90 | 1.7 | 15 | 0/-18 | |
| F25T8 | 2 | 347 | 24 | 0.08 A | 0.85 | | 95 | 1.7 | 12 | 0/-18 | |
| | 1 | 347 | 37 | 0.11 A | 0.72 | | 95 | 1.7 | 10 | 0/-18 | |
| | 2 | 347 | 24 | 0.07 A | 0.71 | | 90 | 1.7 | 12 | 60/16 | |
| F17T8 | 2 | 347 | 18 | 0.06 A | 0.84 | | 95 | 1.7 | 15 | 0/-18 | |
| | 1 | 347 | 17 | 0.06 A | 0.78 | | 90 | 1.7 | 15 | 0/-18 | |
| | 1 | 347 | 27 | 0.08 A | 0.72 | | 95 | 1.7 | 15 | 0/-18 | |

Safety and performance

Product is compliant with material restriction requirements of RoHS ANSI – C62.41  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer  UL Class P

cUL Listed  UL Listed  NEMA Premium  NRCAN

High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

62722 - GE432PS347-L

UltraStart® T8 Programmed Start

4 or 3 F32T8 347V Low Watt .71 BF UltraStart®

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low-PS (.71) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, Thermally protected, Universal voltage, TCLP compliant, Auto-restart |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 62722 | | | |

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps
- < 10% THD, > 99% power factor

| Dimensions | |
|---|------------------------|
| Wiring diagram – LFL PS4 – see example on page 11-21 | |
| Case dimensions – Ref Drawing -A – see page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.1 in (29 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| | Length (± 1 in) |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 33 in (838 mm) |
| Blue/White | 33 in (838 mm) |
| Red | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F40T8 | 3 | 347 | 90 | 0.27 A | 0.74 | | 95 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 83 | 0.25 A | 0.71 | | 95 | 1.7 | 10 | 60/16 |
| F32T8/WM | 3 | 347 | 69 | 0.21 A | 0.79 | | 95 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 69 | 0.21 A | 0.71 | | 95 | 1.7 | 10 | 60/16 |
| F32T8/25W | 3 | 347 | 58 | 0.17 A | 0.73 | | 95 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 88 | 0.27 A | 0.71 | | 95 | 1.7 | 10 | 0/-18 |
| F32T8 | 3 | 347 | 76 | 0.22 A | 0.79 | | 95 | 1.7 | 10 | 0/-18 |
| | 4 | 347 | 76 | 0.23 A | 0.71 | | 95 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 347 | 63 | 0.19 A | 0.76 | | 95 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 71 | 0.21 A | 0.72 | | 95 | 1.7 | 10 | 0/-18 |
| F25T8 | 3 | 347 | 59 | 0.18 A | 0.78 | | 95 | 1.7 | 10 | 0/-18 |
| | 4 | 347 | 51 | 0.15 A | 0.72 | | 95 | 1.7 | 10 | 0/-18 |
| F17T8 | 3 | 347 | 43 | 0.13 A | 0.78 | | 95 | 1.7 | 10 | 0/-18 |

Safety and performance

Product is compliant with material restriction requirements of RoHS ANSI – C62.41  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer  UL Class P

cUL Listed  UL Listed  NEMA Premium  NRCan

High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

62723 - GE232PS347-N

UltraStart® T8 Programmed Start

2 or 1 F32T8 347V Normal Light .88 BF UltraStart®

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps
- < 10% THD, > 99% power factor

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, Thermally protected, Universal voltage, TCLP compliant, Auto-restart |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack 62723 | Pallet Pack | DIY Pack | IP Pack |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL PS2 – see example on page 11-21 | |
| Case dimensions – Ref Drawing -A – see page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.1 in (29 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Length (± 1 in) | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 33 in (838 mm) |
| Red | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F40T8 | 1 | 347 | 45 | 0.13 A | 0.99 | | 95 | 1.7 | 10 | 0/-18 | |
| | 2 | 347 | 54 | 0.16 A | 0.88 | | 95 | 1.7 | 10 | 60/16 | |
| F32T8/WM | 1 | 347 | 34 | 0.10 A | 1.01 | | 95 | 1.7 | 10 | 0/-18 | |
| | 2 | 347 | 46 | 0.14 A | 0.88 | | 95 | 1.7 | 10 | 60/16 | |
| F32T8/25W | 1 | 347 | 29 | 0.09 A | 0.96 | | 95 | 1.7 | 12 | 60/16 | |
| | 2 | 347 | 57 | 0.17 A | 0.88 | | 95 | 1.7 | 10 | 0/-18 | |
| F32T8 | 1 | 347 | 35 | 0.11 A | 1.03 | | 95 | 1.7 | 10 | 60/16 | |
| | 2 | 347 | 50 | 0.15 A | 0.88 | | 95 | 1.7 | 10 | 60/16 | |
| F28T8 | 1 | 347 | 32 | 0.10 A | 0.99 | | 95 | 1.7 | 10 | 60/16 | |
| | 2 | 347 | 39 | 0.12 A | 0.88 | | 95 | 1.7 | 10 | 0/-18 | |
| F25T8/WM | 1 | 347 | 25 | 0.08 A | 0.99 | | 90 | 1.7 | 12 | 0/-18 | |
| | 2 | 347 | 45 | 0.14 A | 0.90 | | 95 | 1.7 | 10 | 0/-18 | |
| F25T8 | 1 | 347 | 30 | 0.09 A | 1.03 | | 95 | 1.7 | 12 | 60/16 | |
| | 2 | 347 | 29 | 0.09 A | 0.88 | | 95 | 1.7 | 12 | 0/-18 | |
| F17T8/WM | 1 | 347 | | | | | | | | | |
| | 2 | 347 | 32 | 0.10 A | 0.89 | | 95 | 1.7 | 10 | 0/-18 | |
| F17T8 | 1 | 347 | 22 | 0.07 A | 1.03 | | 95 | 1.7 | 15 | 0/-18 | |

Safety and performance

Product is compliant with material restriction requirements of RoHS ANSI – C62.41  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer  UL Class P

cUL Listed  UL Listed  NEMA Premium  NRCan

High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

62724 - GE332PS347-N

UltraStart® T8 Programmed Start

3 F32T8 347V Normal Light .88 BF UltraStart®

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, Thermally protected, Universal voltage, TCLP compliant, Auto-restart |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 62724 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F40T8 | 2 | 347 | 78 | 0.23 A | 0.94 | | 95 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 77 | 0.23 A | 0.88 | | 95 | 1.7 | 10 | 60/16 |
| F32T8/WM | 2 | 347 | 59 | 0.18 A | 0.98 | | 95 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 65 | 0.19 A | 0.88 | | 95 | 1.7 | 10 | 60/16 |
| F32T8/25W | 2 | 347 | 49 | 0.15 A | 0.91 | | 95 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 83 | 0.25 A | 0.88 | | 95 | 1.7 | 10 | 0/-18 |
| F32T8 | 2 | 347 | 63 | 0.19 A | 1.00 | | 95 | 1.7 | 10 | 0/-18 |
| | 3 | 347 | 70 | 0.21 A | 0.88 | | 95 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 347 | 54 | 0.16 A | 0.95 | | 95 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 65 | 0.19 A | 0.89 | | 95 | 1.7 | 10 | 0/-18 |
| F25T8 | 2 | 347 | 51 | 0.15 A | 0.99 | | 95 | 1.7 | 10 | 0/-18 |
| | 3 | 347 | 46 | 0.14 A | 0.88 | | 95 | 1.7 | 10 | 0/-18 |
| F17T8 | 2 | 347 | 36 | 0.11 A | 0.98 | | 95 | 1.7 | 10 | 0/-18 |

Safety and performance

Product is compliant with material restriction requirements of RoHS ANSI – C62.41  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer  UL Class P

cUL Listed  UL Listed  NEMA Premium  ETL NRCan

High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps
- < 10% THD, > 99% power factor

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL PS3 – see example on page 11-21 | |
| Case dimensions – Ref Drawing – A – see page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.1 in (29 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in) |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 33 in (838 mm) |
| Red | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

62725 - GE432PS347-N

UltraStart® T8 Programmed Start

4 F32T8 347V Normal Light .88 BF UltraStart®

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps
- < 10% THD, > 99% power factor

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, Thermally protected, Universal voltage, TCLP compliant, Auto-restart |

Electrical characteristics

| | |
|--------------------------------|-------------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 62725 | | | |

Dimensions

Wiring diagram – LFL PS4 – see example on page 11-21

Case dimensions – Ref Drawing -A – see page 11-22

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |

Mounting dimensions

| | |
|----------------------|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.1 in (29 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |

| | |
|-----------|----------|
| Weight | 1.65 lbs |
| Exit Type | Side |

Remote Mounting Distance to Lamp (F32T8)

18 ft

Remote Mounting Wire Gauge

18 AWG

Lead lengths

| | Length (± 1 in) |
|------------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 33 in (838 mm) |
| Blue/White | 33 in (838 mm) |
| Red | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F40T8 | 3 | 347 | | 0.31 A | 0.91 | | 95 | 1.7 | 10 | 60/16 |
| | 4 | 347 | | 0.31 A | 0.88 | | 95 | 1.7 | 10 | 60/16 |
| F32T8/WM | 3 | 347 | | 0.25 A | 0.94 | | 95 | 1.7 | 10 | 60/16 |
| | 4 | 347 | | 0.24 A | 0.88 | | 95 | 1.7 | 10 | 60/16 |
| F32T8/25W | 3 | 347 | | 0.20 A | 0.89 | | 95 | 1.7 | 10 | 60/16 |
| | 4 | 347 | | 0.33 A | 0.88 | | 95 | 1.7 | 10 | 0/-18 |
| F32T8 | 3 | 347 | | 0.26 A | 1.00 | | 95 | 1.7 | 10 | 0/-18 |
| | 4 | 347 | | 0.27 A | 0.88 | | 95 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 347 | | 0.22 A | 0.91 | | 95 | 1.7 | 10 | 60/16 |
| | 4 | 347 | | 0.25 A | 0.88 | | 95 | 1.7 | 10 | 0/-18 |
| F25T8 | 3 | 347 | | 0.21 A | 0.95 | | 95 | 1.7 | 10 | 0/-18 |
| | 4 | 347 | | 0.18 A | 0.88 | | 95 | 1.7 | 10 | 0/-18 |
| F17T8 | 3 | 347 | | 0.15 A | 0.95 | | 95 | 1.7 | 12 | 0/-18 |

Safety and performance

Product is compliant with material restriction requirements of RoHS ANSI – C62.41  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer  UL Class P

cUL Listed  UL Listed  NEMA Premium  NRCAN

High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

62726 - GE232PS347-H

UltraStart® T8 Programmed Start

2 or 1 F32T8 347V High Light 1.18 BF UltraStart®

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps
- < 10% THD, > 99% power factor

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High (1.18) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, Thermally protected, Universal voltage, TCLP compliant, Auto-restart |

| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 50 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 62726 | | | |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL PS2 – see example on page 11-21 | |
| Case dimensions – Ref Drawing -A – see page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.1 in (29 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 2.4 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Length (± 1 in) | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 33 in (838 mm) |
| Red | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F40T8 | 1 | 347 | 57 | 0.17 A | 1.28 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 61 | 0.18 A | 0.85 | | 95 | 1.7 | 10 | 60/16 |
| F36T8 | 1 | 347 | 39 | 0.12 A | 0.98 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 69 | 0.21 A | 1.16 | | 95 | 1.7 | 10 | 60/16 |
| F32T8/WM | 1 | 347 | 43 | 0.13 A | 1.32 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 58 | 0.17 A | 1.09 | | 95 | 1.7 | 10 | 60/16 |
| F32T8/25W | 1 | 347 | 37 | 0.11 A | 1.27 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 74 | 0.22 A | 1.18 | | 95 | 1.7 | 10 | 0/-18 |
| F32T8 | 1 | 347 | 45 | 0.14 A | 1.33 | | 95 | 1.7 | 10 | 0/-18 |
| | 2 | 347 | 62 | 0.19 A | 1.13 | | 95 | 1.7 | 10 | 60/16 |
| F28T8 | 1 | 347 | 40 | 0.12 A | 1.30 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 59 | 0.17 A | 1.17 | | 95 | 1.7 | 10 | 0/-18 |
| F25T8 | 1 | 347 | 38 | 0.11 A | 1.32 | | 95 | 1.7 | 10 | 0/-18 |
| | 2 | 347 | 62 | 0.13 A | 1.16 | | 95 | 1.7 | 10 | 0/-18 |
| F17T8 | 1 | 347 | 28 | 0.08 A | 1.31 | | 95 | 1.7 | 12 | 0/-18 |

Safety and performance

Product is compliant with material restriction requirements of RoHS ANSI – C62.41  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer  UL Class P

cUL Listed  UL Listed  NEMA Premium  ETL NRCan

High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

62727 - GE332PS347-H

UltraStart® T8 Programmed Start

3 F32T8 347V High Light 1.18 BF UltraStart®

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps
- < 10% THD, > 99% power factor

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High (1.18) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, Thermally protected, Universal voltage, TCLP compliant, Auto-restart |

| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 50 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack 62727 | Pallet Pack | DIY Pack | IP Pack |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL PS3 – see example on page 11-21 | |
| Case dimensions – Ref Drawing -A – see page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.1 in (29 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 2.4 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Length (± 1 in) | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 33 in (838 mm) |
| Red | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F40T8 | 2 | 347 | 102 | 0.30 A | 1.23 | | 95 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 68 | 0.20 A | 0.94 | | 95 | 1.7 | 10 | 60/16 |
| F36T8 | 3 | 347 | 89 | 0.26 A | 0.85 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 77 | 0.23 A | 1.27 | | 95 | 1.7 | 10 | 60/16 |
| F32T8/WM | 3 | 347 | 102 | 0.30 A | 1.16 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 63 | 0.19 A | 1.21 | | 95 | 1.7 | 10 | 60/16 |
| F32T8/25W | 3 | 347 | 83 | 0.25 A | 1.10 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 83 | 0.25 A | 1.28 | | 95 | 1.7 | 10 | 0/-18 |
| F32T8 | 3 | 347 | 110 | 0.33 A | 1.18 | | 95 | 1.7 | 10 | 0/-18 |
| | 2 | 347 | 71 | 0.21 A | 1.25 | | 95 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 347 | 94 | 0.28 A | 1.13 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 66 | 0.19 A | 1.27 | | 95 | 1.7 | 10 | 0/-18 |
| F25T8 | 3 | 347 | 86 | 0.25 A | 1.17 | | 95 | 1.7 | 10 | 0/-18 |
| | 2 | 347 | 46 | 0.14 A | 1.26 | | 95 | 1.7 | 10 | 0/-18 |
| F17T8 | 3 | 347 | 61 | 0.18 A | 1.16 | | 95 | 1.7 | 10 | 0/-18 |

Safety and performance

Product is compliant with material restriction requirements of RoHS ANSI – C62.41  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer  UL Class P

cUL Listed  UL Listed  NEMA Premium  NRCan

High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

63041 - GE332PS347-L

UltraStart® T8 Programmed Start

2 or 1 F32T8 347V High Light 1.18 BF UltraStart®

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps
- < 10% THD, > 99% power factor

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low-PS (.71) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, Thermally protected, Universal voltage, TCLP compliant, Auto-restart |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 63041 | | | |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL PS3 – see example on page 11-21 | |
| Case dimensions – Ref Drawing -A – see page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.1 in (29 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Length (± 1 in) | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 33 in (838 mm) |
| Red | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F40T8 | 2 | 347 | 66 | 0.19 A | 0.77 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 50 | 0.15 A | 0.79 | | 95 | 1.7 | 10 | 60/16 |
| F32T8/WM | 3 | 347 | 66 | 0.20 A | 0.71 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 43 | 0.13 A | 0.75 | | 95 | 1.7 | 10 | 60/16 |
| F32T8/25W | 3 | 347 | 56 | 0.17 A | 0.71 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 52 | 0.16 A | 0.81 | | 95 | 1.7 | 10 | 0/-18 |
| F32T8 | 3 | 347 | 70 | 0.21 A | 0.71 | | 95 | 1.7 | 10 | 0/-18 |
| | 2 | 347 | 46 | 0.14 A | 0.77 | | 95 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 347 | 60 | 0.18 A | 0.71 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 43 | 0.13 A | 0.81 | | 95 | 1.7 | 10 | 0/-18 |
| F25T8 | 3 | 347 | 55 | 0.16 A | 0.73 | | 95 | 1.7 | 10 | 0/-18 |
| | 2 | 347 | 31 | 0.10 A | 0.81 | | 95 | 1.7 | 12 | 0/-18 |
| F17T8 | 3 | 347 | 40 | 0.12 A | 0.73 | | 95 | 1.7 | 10 | 0/-18 |

Safety and performance

Product is compliant with material restriction requirements of RoHS ANSI – C62.41  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer  UL Class P

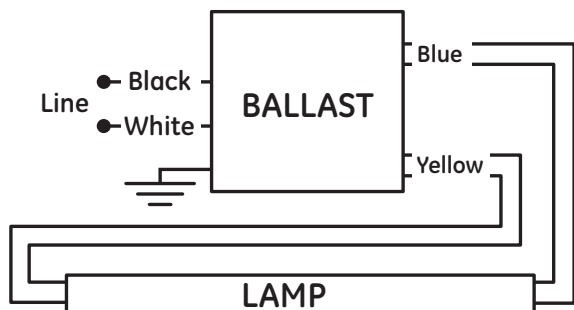
cUL Listed  UL Listed  NEMA Premium  ETL NRCan

High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

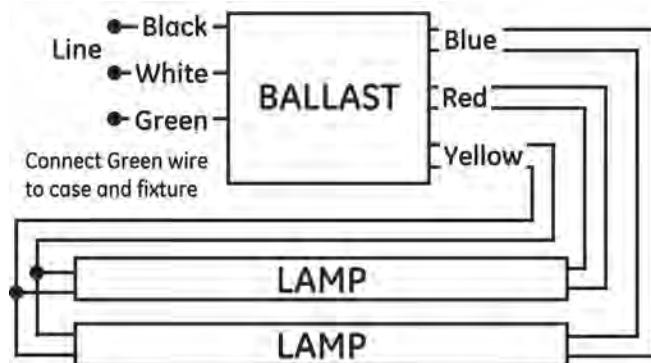
Wiring Diagrams

T8 Programmed Start Ballasts

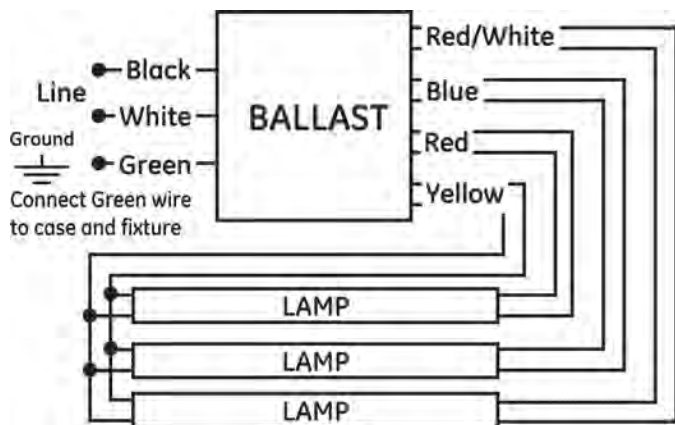
LFL PS1



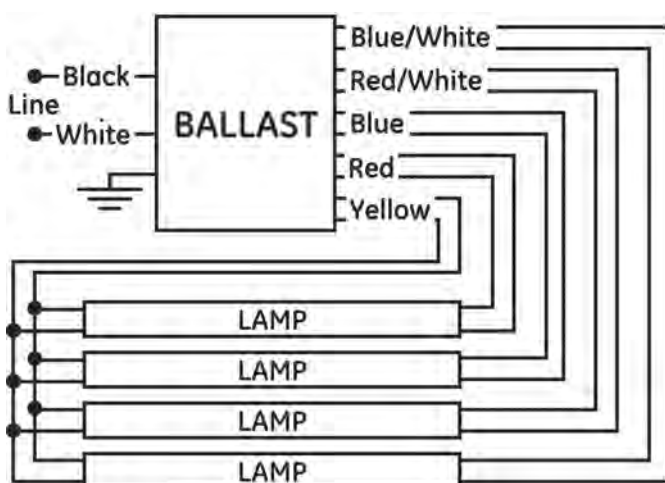
LFL PS2



LFL PS3



LFL PS4



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

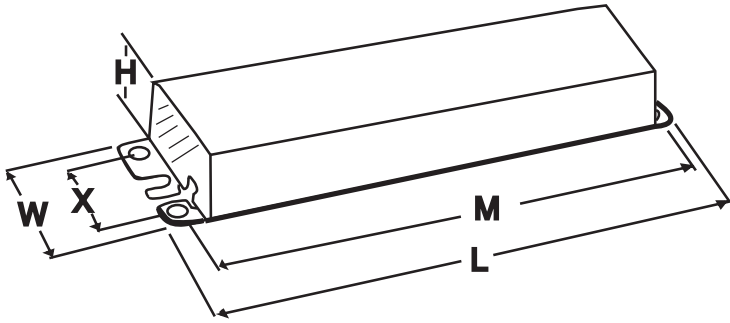
Compact Fluorescent

HID Electronic & Electromagnetic

Case Dimensions

T8 Programmed Start Ballasts

-A



LG

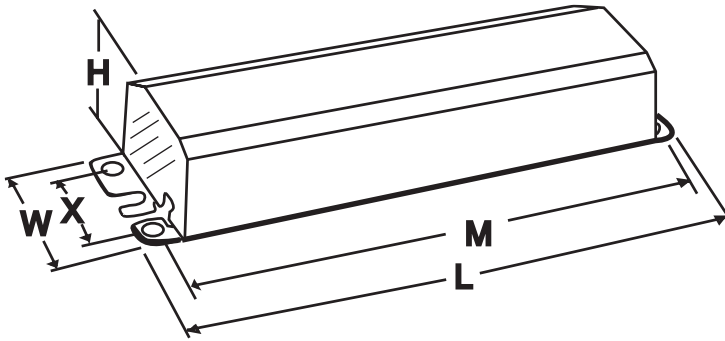


Table of Contents

T8/T5 Dimming Ballasts

Dimming Applications 12-2

UltraStart® T8 Step Dimming Program
Start Dimming Ballast..... 12-5

UltraMax® Bi-Level Dimming and Load Shed
Dimming Instant Start 120-277V High Efficiency 12-8

UltraStart® T8 100-3% 0-10V
120-277V Programmed Start Dimming.....12-16

UltraStart® T5
120-277V Step Dimming Program Start Ballast.....12-24

Wiring Diagrams.....12-26

Case Dimensions12-29

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic



Dimming Applications

UltraStart T8 Program Start Bi-level Switching Ballast 100% to 30% Light Output

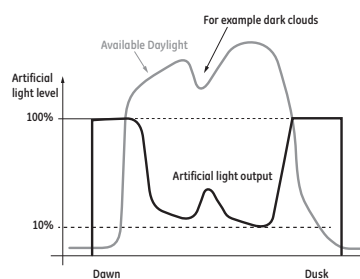
As ballast efficiency increases, controls and dimming ballasts will deliver the next level of energy savings. Proper installation and set up is needed to ensure the system will deliver the energy savings while maximizing lamp life. GE dimming ballasts are available for load shed as well as deep dimming operation. Dimming applications generally use full wattage lamps, but GE UltraMax® 28W lamps are also suitable for use on GE dimming ballasts. The ballast must be mounted in the same fixture as the lamps, no tandem or remote operation is permitted for programmed start dimming ballasts.

In order to achieve maximum lamp performance, the lamps should be seasoned at full power for 12 hours per NEMA guidelines prior to dimming operation. Ballasts for programmed start dimming must use rapid start type lampholders that accommodate two separate wires that connect one to each lamp pin. Shunted or shorted lampholders cannot be used with programmed start dimming systems. Load shed ballasts are instant start and can be used with shunted lampholders. The load shed ballast can be used in some tandem fixture applications with total lead length determined by the specific application.

GE programmed start dimming ballasts are compatible with 0-10V Class 1 or Class 2 wiring systems rated as ANSI Type 1. GE load shed ballasts feature step or variable 0-10V control. The step options include Class 1 compatible control and dual input leads for double switched applications such as classrooms.

Key Fluorescent Dimming Strategies

- Daylight harvesting.
Ideal for spaces occupied by users performing important stationary tasks, dimming enables the lighting system to reduce light output in response to daylight availability, saving energy.
- Adaptive compensation.
This strategy involves reducing light levels at night in spaces with non-critical tasks based on research that people prefer and need less light at night than during daytime.
- Demand response.
In this strategy, the control system responds to a signal from the local utility to reduce light levels during a grid emergency. The owner receives financial incentives such as special rates in return.



UltraStart® T8 100-3% Dimming Ballast in Normal and High Ballast Factor

GE UltraStart® 0-10V T8 electronic dimming fluorescent ballast offers the most efficient dimming system on the market today. They are available in 1-4 lamp normal ballast factor or 0.88 light output and 2-4 lamp high ballast factor or 1.18 light output for applications where more light is needed. UltraStart® dimming ballasts are multi-volt and operate in 120-277 voltage range.

Today's fixed light fluorescent systems are now 93% efficient and the next stage in additional energy savings is to either shut lights off with occupancy sensors or efficiently dim the lights with GE UltraStart® 0-10V dimming ballast. This ballast can be effectively incorporated in popular lighting energy reduction strategies such as daylight harvesting, load shedding and energy management systems to allow for a more affordable and flexible controllable lighting system.

UltraStart® T8 Program Start Bi-level Switching Ballast 100% to 30% Light Output

The new UltraStart® T8 hi-efficiency dimming ballast family dims from 100% to 30% light output. The ballast in the family operates at normal .88 ballast factor and low .78 ballast factors when used at 100% light output. We offer a 1- and 2-lamp ballast at normal light output, and 2-lamp ballast at low light output. The ballasts are designed to meet California Energy Efficiency Standards (Title 24) and ASRAE 2010 requirements for multi-level lighting. UltraStart® T8 Bi-level switching ballast reduce energy by over 50% when light is not needed and provides architectural dimming at 30% light output. The 1-lamp ballast is ideal for hallway and stairwell fixture applications and the 2-lamp L and N ballast are excellent applications for Office, School and Hospital patient rooms.

The Bi-level UltraStart® ballast is easy and inexpensive to install:

- The ballast can be switched manually by using 2 switch legs: the first switches on and the second switches off @ 30% light and both switches on for 100% light.
- Operates with a line voltage motion sensor when the space is not occupied
- Two black leads control the light level. Connection of both black leads to hot will result in 100% light. Connect 1 black lead to hot and dim to 30% light level.
- Can be switched between 100% and 30% continuously without reducing rated lamp life

UltraStart® T5 Program Start Step Dimming Ballast 100% to 35% Light Output:

Now available for F28T5 and F24T5HO lamps; Provides a simple solution to meet new California Title 24 reduced power requirements for locations that include corridors, stairwells, warehouses, classrooms, libraries, and parking garages.

0-10V Dimming Load Shed Instant Start Ballast

The 0-10V Dimming Load Shed Instant Start ballast is the second dimming ballast option from GE and can dim at any level between a high 1.18 ballast factor or 100% light to a low .71 ballast factor @ 60%.

It is also available in 2, 3, 4 and 6 lamp options.

Low voltage wiring is required to connect the ballast to the controller. A common low voltage wiring type is stranded- copper twisted pair 18AWG. Low voltage wiring is considered Class 2 and not recommended for placement in the same conduit as Class 1 wiring, which is the power, ground and neutral lines. Most codes allow Class 2 wiring to be run without conduit and junction boxes.

The user can save even more energy with this ballast because it is also compatible and warranted with F32/25, F28 and F32/WM energy efficient 4 ft T8 lamps. The ballast includes GE Patented anti-striation control capacitor that will prevent striations that are common for these lamps.

0-10V Dimming Load Shed Features:

- Operates using 0-10 VDC analog control dimmer and wiring – the most popular and cost efficient protocol
- Uses 4 wires: (hot and neutral) and two control wires (purple and gray) to control the voltage signal to the ballast. When the voltage is 10 VDC, then the lamps will be at full light output. As the voltage decreases, the ballast decreases light output. When the control voltage is 0 VDC, then the ballast will generate 60% light output.
- Compatible with 0-10V controllers that meet ANSI specifications

In addition to the outstanding operating efficiencies, these ballast are designed to operate in hot conditions. They are UL rated for operation in ambient temperatures of 55°C or 131°F, and feature UL Type CC Anti-Arc guard protection to prevent arcing if there is a bad or broken socket.

Both ballast are compliant with UL1598, which requires new and retrofitted fixtures to have ballasts with UL Type CC Anti Arc guard or special circle I sockets. Like all GE Electronic ballast, product is compliant with material restriction requirements of RoHS. The ballast operates utilizing 0-10 VDC analog control dimmer and wiring. This is the most popular and cost efficient protocol. The ballast uses 4 wires: (hot and neutral) and two control wires (purple and gray) to control the voltage signal to the ballast. When the voltage is 10 VDC then the lamp/ballast will be at full light output. As the voltage decreases the ballast decreases light out put. Low voltage wiring is required to connect the ballast to the controller. A common low voltage wiring type is stranded- copper twisted pair 18AWG. Low voltage wiring is considered Class 2 and not recommended for placement in the same conduit as Class 1 wiring, which is the power, ground and neutral lines. Most codes allow Class 2 wiring to be run without conduit and junction boxes. GE UltraStart® T8 dimming ballast is compatible with 0-10V controllers that meet ANSI specifications

GE UltraStart® 0-10V dimming ballast use less watts than other dimming ballast on the market today. Other dimming ballast manufacturers use more energy by continuously heating the lamps cathodes to maintain light. This is old technology. GE designed UltraStart® dimming ballast turn off the heat to the lamp cathodes after starting the lamp and keeps the heat off until dimmed to a 0.71 ballast factor. This saves watts through this range.

The Continuous Cathode cut-out technology allows for the essentially the same efficiency at 100% light output as our UltraMax® instant start and UltraStart® program start ballast. The ballast

is also in compliance with a new proposed standard from NEMA (National electrical manufacturers association) called NEMA-LL-9. This standard calls for cathode heating specifications on dimming levels from 35% light output to 1%. By maintaining these heating standards at lower dimming levels, we can assure the user of optimal lamp performance with minimal end blackening and full program start rated lamp warranties.

The new dimming ballast save money on maintenance cost because they operate in parallel. When a lamp fails in a multiple lamp fixture powered by GE's dimming ballast, the remaining lamps stay lit. The maintenance staff only needs to replace the failed lamp. In all other manufacturer's dimming ballast, if one lamp fails then the entire fixture will fail. The maintenance staff will typically replace all the lamps because they cannot identify the failed lamp.

Instant Start Bi-Level Switching Ballast

The new Instant Start Bi-Level Switching ballast operates at a high 1.18 ballast factor at 100% light output and can switch lamps to a low .71 ballast factor or 60% light output. The ballast is available in 2, 3, 4 and a 6-lamp configuration and is designed to reduce light levels within the fixture when maximum light levels are not needed.

The T8 UltraMax® 6-lamp Bi-level ballast has achieved 95% efficiency, setting new standards for ballast efficiency. The 4 and 6 lamp Bi-level ballast are perfect options for popular hi-bay fixtures and applications. Fixtures can dim when the space is not in use and lighted areas are maintained for safety and convenience. The 2 and 3 lamp Bi-level ballast are perfect for reducing lamps in a retrofitted fixture with the option of dimming the fixture when the light is not needed.

The user can save even more energy because the new ballast is compatible and warranted with F32/25, F28 and F32/WM energy efficient 4 ft T8 lamps. The ballast includes GE Patented anti-striation control capacitor that will prevent striations that are common for these lamps. The Bi-level switching ballast is the most efficient and easy to commission dimming option on the market today.

Bi-Level Switching Features:

- Can be operated manually with 2 switch legs: 1 switch on / 2 switch off @ 60% light and both switches on @ 100% light.
- Operates with a motion sensor and switch to the 60% light level when the space is not occupied
- Two black hot leads to control the light level. Connection of either black lead to hot will give 60% light level. Connection of both black leads to hot will result in 100% light level.
- Can be switched between 100% and 60% continuously without reducing rated lamp life.

UltraMax® Bi-Level (S60) Dimming and Load Shed (V60) Dimming

These extremely high efficiency multi-volt (120-277V) electronic ballasts offer the benefits of a low cost instant start design but the flexibility to dim from 100% to 60% or load shed dim with a 0-10V

controller anywhere between 100% and 60%. With F32T8 lamps there is a direct 40% energy reduction when dimming from 100% to 60% light level reduction. Lamp life is not impacted by dimming from high to low. For applications with more than 5 starts per day, a programmed start (PS) or PS dimming ballast is recommended.

GE Dimming Ballasts and NEMA LL-9

NEMA LL-9 is the first coordinated guidance on achieving industry lamp and ballast compatibility with T8 dimming systems and our UltraStart® T8 0-10V full range dimming ballasts are fully compliant. Parallel lamp operation ensures that each lamp is treated properly and within LL-9 specifications with consistent lamp-to-lamp results. Series wired dimming ballasts result in uneven cathode heating and inconsistent lamp to lamp performance and life. Using NEMA LL-9 compliant ballasts means adhering to an open standard that enables you to use different lamp and ballast manufacturers and still know that you will have a reliable system. The entire GE Dimming Ballast offering is NEMA LL-9 compliant. Demand it in your facility.

It is worth noting that when installing new fixtures with dimming capability or relamping with new lamps that GE recommends seasoning the lamps overnight at high ballast factor, or full light output, per NEMA guidelines.

Instant Start vs. Rapid Start Sockets

When using programmed start or dimming ballasts in fixtures, sockets must be 2-pin rapid start type. Fixtures with T8 instant start ballasts must use jumpered rapid start sockets or shunted lamp holders (internal to the lamp holder) that bridge the lamp bi-pins together into one contact on each side of the lamp. If retrofitting from a instant start ballast fixture with shunted sockets to a dimming or programmed start ballast, rapid start type sockets must be used to properly start lamps and maintain rated lamp life.

UltraStart® T8 Step Dimming Program Start Dimming Ballast

T8 Dimming Ballasts

68966-GE132-MVPS-N-S30

Ultrastart® Bi-level Dimming

Program Start Bi-level Dimming

1 F32T8 120-277V "N".88 BF UltraStart® 100/30% Bi-level Switching

- UL Type CC Rating provides protection against arcing in electrical devices
- Bi-level Switching 100 to 30%
- Program Start Bi-level Dimming
- Anti-striation Control for better light quality, with no striations
- 2 or 1 F32T8 120-277V "N".88 BF UltraStart® 100/30% Bi-level Switching
- UL 55C (131F) Ambient rating - High Temperature Protection Circuit
- Multi-Volt Technology handles voltage from 120-277
- Parallel Lamp operation

General characteristics

| | |
|-----------------------------|--|
| Ballast Type | Electronic-Dimming |
| Dimming Type | Step Dimming |
| Starting Method | Program Start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation +/- | 10% |
| Ambient Temperature (Max) | 55° C (131° F) |
| Case Temperature (Max) | 70° C (158° F) |
| Ballast Factor | .88 to .25 |
| Power Factor Correction | Active |
| Sound Rating | A |
| Enclosure Type | Metal |
| Additional Info | No PCB's Anti-striation control, Universal voltage inherent thermal protection |

Electrical characteristics

| | |
|--------------------------------|----------|
| Supply Current Frequency (MIN) | 50/60 Hz |
|--------------------------------|----------|

Order information

| | | | |
|---------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 68966 | | | |

Dimensions

Wiring diagram - LFL - 1N S30 - see example on Page 12-27

Case dimensions - Ref Drawing - A - see Page 12-29

| | |
|--|------------------|
| Length (L) | 9.5 in (241mm) |
| Width (W) | 1.7 in (43mm) |
| Height (H) | 1.2 in (31mm) |
| Mounting dimensions | |
| Mount Length | 8.9 in (226mm) |
| Mount Width | 1.18 in (30mm) |
| Mount Slots (MS) | .3 in (8mm) |
| Weight | 1.47 |
| Exit Type | Side |
| Remote Mounting Distance to lamp (F32T8) | 8 Ft |
| Remote Mounting Wire gage | 18 AWG |
| Lead lengths | |
| Black | 25.0 in (635mm) |
| Blue | 33.0 in (864mm) |
| Red | 33.0 in (864mm) |
| White | 25.0 in (635mm) |
| Yellow | 47.0 in (1194mm) |

Specifications by lamp and wattage

| Type | Lamps | # | Light Output | Input Watts | | UL Nominal line Amps | | Power Factor | | Ballast Factor | Harmonic Total | | Crest Factor | Min Starting Temp |
|-----------|-------|------|--------------|-------------|------|----------------------|------|--------------|------|----------------|----------------|------|--------------|-------------------|
| | | | | 120V | 277V | 120V | 277V | 120V | 277V | | 120V | 277V | | |
| F32T8/U | 1 | 100% | 30 | 29 | 0.26 | 0.12 | 0.99 | 0.94 | 0.88 | 5% | 10% | <1.7 | 0F | |
| | | 30% | 12 | 13 | 0.11 | 0.06 | 0.99 | 0.93 | 0.25 | 10% | 20% | <1.7 | 32F | |
| F32T8/WM | 1 | 100% | 28 | 28 | 0.25 | 0.11 | 0.99 | 0.93 | 0.88 | 5% | 10% | <1.7 | 32F | |
| | | 30% | 12 | 13 | 0.11 | 0.06 | 0.99 | 0.83 | 0.18 | 10% | 21% | <1.7 | 32F | |
| F28T8 | 1 | 100% | 25 | 26 | 0.22 | 0.10 | 0.99 | 0.92 | .87 | 5% | 11% | <1.7 | 32F | |
| | | 30% | 12 | 13 | 0.11 | 0.06 | 0.99 | 0.83 | .22 | 10% | 21% | <1.7 | 32F | |
| F32T8/25W | 1 | 100% | 25 | 24 | 0.22 | 0.10 | 0.99 | 0.91 | 0.84 | 5% | 11% | <1.7 | 32F | |
| | | 30% | 12 | 13 | 0.11 | 0.06 | 0.99 | 0.83 | 0.23 | 10% | 21% | <1.7 | 32F | |
| F25T8 | 1 | 100% | 25 | 24 | 0.21 | 0.10 | 0.99 | 0.92 | 0.9 | 5% | 11% | <1.7 | 0F | |
| | | 30% | 9 | 10 | 0.08 | 0.05 | 0.98 | 0.77 | 0.17 | 10% | 25% | <1.7 | 32F | |
| F17T8 | 1 | 100% | 18 | 18 | 0.16 | 0.08 | 0.99 | 0.87 | .95 | 10% | 14% | <1.7 | 0F | |
| | | 30% | 10 | 10 | 0.09 | 0.05 | 0.98 | 0.78 | .21 | 10% | 25% | <1.7 | 32F | |
| F15T8 | 1 | 100% | 15 | 15 | 0.13 | 0.07 | 0.99 | 0.84 | .92 | 10% | 17% | <1.7 | 0F | |
| | | 30% | 7 | 8 | 0.06 | 0.04 | 0.97 | 0.68 | .38 | 12% | 32% | <1.7 | 32F | |
| F36T8 | 1 | 100% | 25 | 25 | 0.22 | 0.10 | 0.99 | 0.92 | .88 | 5% | 11% | <1.7 | 32F | |
| | | 30% | 14 | 13 | 0.11 | 0.06 | 0.99 | 0.94 | .18 | 10% | 20% | <1.7 | 32F | |

Safety and performance



UL Type 1 Outdoor



UL Type HL ANSI - C82.11 Cons 2002, ANSI - C62.41 - 1991

Product is compliant with material restriction requirements of RoHS

FCC - Part 18 (Class A) for EMI and RFI Non-Consumer Limits cUL Listed



UL Type CC High Temperature Rated: Suitable for high temperature applications

70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty



UltraStart® T8 Step Dimming Program Start Dimming Ballast

T8 Dimming Ballasts

68968-GE232-MVPS-L-S30

Ultrastart® Bi-level Dimming Program Start Bi-level Dimming

2 or 1 F32T8 120-277V "L" .78 BF UltraStart® 100/30% Bi-level Switching

- UL Type CC Rating provides protection against arcing in electrical devices
- Bi-level Switching 100 to 30%
- Anti-striation Control for better light quality, with no striations
- UL 55C (131F) Ambient rating - High Temperature Protection Circuit
- Multi-Volt Technology handles voltage from 120-277
- Parallel Lamp operation

| General characteristics | |
|-----------------------------|--|
| Ballast Type | Electronic-Dimming |
| Dimming Type | Step Dimming |
| Starting Method | Program Start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation +/- | 10% |
| Ambient Temperature (Max) | 55° C (131° F) |
| Case Temperature (Max) | 70° C (158° F) |
| Ballast Factor | .78 to .20 |
| Power Factor Correction | Active |
| Sound Rating | A |
| Enclosure Type | Metal |
| Additional Info | No PCB's Anti-striation control, Universal voltage inherent thermal protection |

| Dimensions | |
|--|-------------------|
| Wiring diagram - LFL-2N/L S30 - see example on Page 12-27 | |
| Case dimensions - Ref Drawing - A - see Page 12-29 | |
| Length (L) | 9.5 in (241mm) |
| Width (W) | 1.7 in (43mm) |
| Height (H) | 1.2 in (31mm) |
| Mounting dimensions | |
| Mount Length | 8.9 in (226mm) |
| Mount Width | 1.18 in (30mm) |
| Mount Slots (MS) | .3 in (8mm) |
| Weight | 1.47 |
| Exit Type | Side |
| Remote Mounting Distance to lamp (F32T8) | 8 Ft |
| Remote Mounting Wire gage | 18 AWG |
| Lead lengths | |
| Black | 25.0 in (635mm) |
| Blue | 33.0 in (864mm) |
| Red | 33.0 in (864mm) |
| White | 25.0 in (635mm) |
| Yellow | 47.0 in (1194mm) |

| Electrical characteristics | |
|--------------------------------|----------|
| Supply Current Frequency (MIN) | 50/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack 68968 | Pallet Pack | DIY Pack | IP Pack |

| Specifications by lamp and wattage | | | | | | | | | | | | | |
|------------------------------------|---------|--------------|-------------|------|----------------------|------|--------------|------|----------------|----------------|------|--------------|-------------------|
| Type | Lamps # | Light Output | Input Watts | | UL Nominal line Amps | | Power Factor | | Ballast Factor | Harmonic Total | | Crest Factor | Min Starting Temp |
| | | | 120V | 277V | 120V | 277V | 120V | 277V | | 120V | 277V | | |
| F32T8/U | 2 | 100% | 52 | 51 | 0.46 | 0.20 | 1.00 | 0.97 | 0.78 | 5% | 10% | <1.7 | 0F |
| | 2 | 30% | 19 | 20 | 0.11 | 0.08 | 0.99 | 0.88 | 0.2 | 10% | 19% | <1.7 | 32F |
| | 1 | 100% | 36 | 36 | 0.32 | 0.14 | 1.00 | 0.94 | 0.96 | 5% | 10% | <1.7 | 0F |
| F32T8/WM | 1 | 30% | 15 | 16 | 0.13 | 0.07 | 0.99 | 0.84 | 0.29 | 10% | 23% | <1.7 | 32F |
| | 2 | 100% | 51 | 50 | 0.44 | 0.19 | 1.00 | 0.97 | 0.78 | 5% | 5% | <1.7 | 32F |
| | 2 | 30% | 19 | 20 | 0.17 | 0.08 | 0.99 | 0.88 | 0.18 | 10% | 19% | <1.7 | 32F |
| F28T8 | 1 | 100% | 34 | 33 | 0.29 | 0.13 | 1.00 | 0.94 | 0.96 | 10% | 11% | <1.7 | 32F |
| | 1 | 30% | 15 | 16 | 0.13 | 0.07 | 0.99 | 0.84 | 0.29 | 10% | 23% | <1.7 | 32F |
| | 2 | 100% | 47 | 47 | 0.42 | 0.18 | 1.00 | 0.96 | 0.8 | 5% | 10% | <1.7 | 32F |
| F32T8/25W | 2 | 30% | 18 | 19 | 0.16 | 0.08 | 0.99 | 0.87 | .18 | 10% | 20% | <1.7 | 32F |
| | 1 | 100% | 32 | 32 | 0.28 | 0.13 | 1.00 | 0.93 | .98 | 5% | 12% | <1.7 | 32F |
| | 1 | 30% | 14 | 15 | 0.13 | 0.07 | 0.99 | 0.83 | .27 | 10% | 24% | <1.7 | 32F |
| F25T8 | 2 | 100% | 45 | 44 | 0.39 | 0.17 | 1.00 | 0.96 | .77 | 5% | 10% | <1.7 | 32F |
| | 2 | 30% | 19 | 19 | 0.16 | 0.08 | 0.99 | 0.88 | 0.23 | 10% | 20% | <1.7 | 32F |
| | 1 | 100% | 29 | 30 | 0.26 | 0.12 | 1.00 | 0.92 | 0.94 | 10% | 12% | <1.7 | 32F |
| F17T8 | 1 | 30% | 14 | 15 | 0.13 | 0.07 | 0.99 | 0.83 | 0.31 | 10% | 24% | <1.7 | 32F |
| | 2 | 100% | 43 | 42 | 0.38 | 0.16 | 1.00 | 0.96 | 0.82 | 5% | 10% | <1.7 | 0F |
| | 2 | 30% | 18 | 18 | 0.15 | 0.08 | 0.99 | 0.87 | 0.11 | 10% | 11% | <1.7 | 32F |
| F15T8 | 1 | 100% | 30 | 29 | 0.25 | 0.12 | 1.00 | 0.92 | 1.01 | 10% | 13% | <1.7 | 0F |
| | 1 | 30% | 15 | 16 | 0.13 | 0.07 | 0.99 | 0.84 | 0.22 | 10% | 23% | <1.7 | 32F |
| | 2 | 100% | 32 | 32 | 0.28 | 0.13 | 1.00 | 0.93 | .84 | 10% | 12% | <1.7 | 0F |
| F36T8 | 2 | 30% | 15 | 15 | 0.13 | 0.07 | 0.99 | 0.84 | .15 | 10% | 23% | <1.7 | 32F |
| | 1 | 100% | 22 | 23 | 0.20 | 0.10 | 0.99 | 0.89 | 1.02 | 10% | 16% | <1.7 | 0F |
| | 1 | 30% | 12 | 13 | 0.11 | 0.06 | 0.98 | 0.79 | .21 | 11% | 28% | <1.7 | 32F |
| F40T8 | 2 | 100% | 26 | 27 | 0.23 | 0.11 | 1.00 | 0.91 | .82 | 10% | 14% | <1.7 | 0F |
| | 2 | 30% | 12 | 12 | 0.10 | 0.06 | 0.98 | 0.77 | .32 | 12% | 29% | <1.7 | 32F |
| | 1 | 100% | 19 | 19 | 0.16 | 0.08 | 0.99 | 0.85 | 1.02 | 10% | 19% | <1.7 | 0F |
| F36T8 | 1 | 30% | 10 | 10 | 0.09 | 0.05 | 0.97 | 0.73 | .42 | 14% | 32% | <1.7 | 32F |
| | 2 | 100% | 46 | 45 | 0.40 | 0.17 | 1.00 | 0.96 | .78 | 5% | 10% | <1.7 | 32F |
| | 2 | 30% | 19 | 19 | 0.17 | 0.08 | 0.99 | 0.88 | .18 | 10% | 19% | <1.7 | 32F |
| F40T8 | 1 | 100% | 31 | 30 | 0.27 | 0.12 | 1.00 | 0.93 | .96 | 10% | 12% | <1.7 | 32F |
| | 1 | 30% | 14 | 15 | 0.13 | 0.07 | 0.99 | 0.83 | .29 | 10% | 24% | <1.7 | 32F |
| | 1 | 100% | 40 | 40 | 0.35 | 0.16 | 1.00 | 0.95 | .93 | 5% | 10% | <1.7 | 32F |
| F40T8 | 1 | 30% | 17 | 19 | 0.15 | 0.08 | 0.99 | 0.87 | .27 | 10% | 20% | <1.7 | 32F |

Safety and performance

UL Type 1 Outdoor UL Type HL ANSI - C82.11 Cons 2002, ANSI - C62.41 - 1991 Product is compliant with material restriction requirements of RoHS

FCC - Part 18 (Class A) for EMI and RFI Non-Consumer Limits UL Type CC High Temperature Rated: Suitable for high temperature applications

70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty



UltraStart® T8 Step Dimming Program Start Dimming Ballast

T8 Dimming Ballasts

68967-GE232-MVPS-N-S30

Ultrastart® Bi-level Dimming

Program Start Bi-level Dimming

2 or 1 F32T8 120-277V "N" .88 BF UltraStart® 100/30% Bi-level Switching

- UL Type CC Rating provides protection against arcing in electrical devices
- Bi-level Switching 100 to 30%
- Anti-striation Control for better light quality, with no striations
- UL 55C (131F) Ambient rating - High Temperature Protection Circuit
- Multi-Volt Technology handles voltage from 120-277
- Parallel Lamp operation

General characteristics

| | |
|-----------------------------|--|
| Ballast Type | Electronic-Dimming |
| Dimming Type | Step Dimming |
| Starting Method | Program Start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation +/- | 10% |
| Ambient Temperature (Max) | 55° C (131° F) |
| Case Temperature (Max) | 70° C (158° F) |
| Ballast Factor | .88 to .25 |
| Power Factor Correction | Active |
| Sound Rating | A |
| Enclosure Type | Metal |
| Additional Info | No PCB's Anti-striation control, Universal voltage inherent thermal protection |

Electrical characteristics

| | |
|--------------------------------|----------|
| Supply Current Frequency (MIN) | 50/60 Hz |
|--------------------------------|----------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 68967 | | | |

Dimensions

Wiring diagram-LFL- 2N/L S30 - see example on Page 12-27

Case dimensions-Ref Drawing -A - see Page 12-29

| | |
|---|-------------------|
| Length (L) | 9.5 in (241mm) |
| Width (W) | 1.7 in (43mm) |
| Height (H) | 1.2 in (31mm) |
| Mounting dimensions | |
| Mount Length | 8.9 in (226mm) |
| Mount Width | 1.18 in (30mm) |
| Mount Slots (MS) | .3 in (8mm) |
| Weight | 1.47 |
| Exit Type | Side |
| Remote Mounting Distance to lamp (F32T8) | 8 Ft |
| Remote Mounting Wire gage | 18 AWG |
| Lead lengths | |
| Black | 25.0 in (635mm) |
| Blue | 33.0 in (864mm) |
| Red | 33.0 in (864mm) |
| White | 25.0 in (635mm) |
| Yellow | 47.0 in (1194mm) |

Specifications by lamp and wattage

| Type | Lamps # | Light Output | Input Watts | | UL Nominal Line Amps | | Power Factor | | Ballast Factor | Harmonic Total | | Crest Factor | Min Starting Temp |
|-----------|---------|--------------|-------------|------|----------------------|------|--------------|------|----------------|----------------|------|--------------|-------------------|
| | | | 120V | 277V | 120V | 277V | 120V | 277V | | 120V | 277V | | |
| F32T8/U | 2 | 100% | 59 | 57 | 0.51 | 0.22 | 0.97 | 0.96 | 0.88 | 5% | 10% | <1.7 | 0F |
| | 2 | 30% | 24 | 25 | 0.22 | 0.10 | 0.99 | 0.91 | 0.25 | 10% | 17% | <1.7 | 32F |
| | 1 | 100% | 39 | 39 | 0.34 | 0.15 | 0.99 | 0.94 | 1.13 | 5% | 12% | <1.7 | 0F |
| F32T8/WM | 1 | 30% | 20 | 20 | 0.17 | 0.08 | 0.99 | 0.88 | 0.39 | 10% | 20% | <1.7 | 32F |
| | 2 | 100% | 55 | 53 | 0.48 | 0.21 | 1.00 | 0.97 | 0.88 | 5% | 10% | <1.7 | 32F |
| | 2 | 30% | 23 | 24 | 0.21 | 0.10 | 0.99 | 0.91 | 0.23 | 10% | 18% | <1.7 | 32F |
| F28T8 | 1 | 100% | 36 | 36 | 0.32 | 0.14 | 1.00 | 0.94 | 1.13 | 5% | 13% | <1.7 | 32F |
| | 1 | 30% | 19 | 19 | 0.17 | 0.08 | 0.99 | 0.88 | 0.39 | 10% | 21% | <1.7 | 32F |
| | 2 | 100% | 51 | 50 | 0.45 | 0.19 | 1.00 | 0.97 | 0.87 | 5% | 10% | <1.7 | 32F |
| F32T8/25W | 2 | 30% | 22 | 23 | 0.20 | 0.09 | 0.99 | 0.90 | .27 | 10% | 18% | <1.7 | 32F |
| | 1 | 100% | 34 | 34 | 0.30 | 0.13 | 1.00 | 0.94 | 1.11 | 5% | 14% | <1.7 | 32F |
| | 1 | 30% | 18 | 18 | 0.16 | 0.08 | 0.99 | 0.87 | .44 | 10% | 22% | <1.7 | 32F |
| F25T8 | 2 | 100% | 49 | 48 | 0.42 | 0.18 | 1.00 | 0.96 | .84 | 5% | 10% | <1.7 | 32F |
| | 2 | 30% | 22 | 23 | 0.20 | 0.10 | 0.99 | 0.91 | 0.31 | 10% | 18% | <1.7 | 32F |
| | 1 | 100% | 32 | 32 | 0.29 | 0.13 | 1.00 | 0.93 | 1.07 | 10% | 14% | <1.7 | 32F |
| F17T8 | 1 | 30% | 17 | 18 | 0.16 | 0.08 | 0.99 | 0.87 | 0.43 | 10% | 22% | <1.7 | 32F |
| | 2 | 100% | 46 | 45 | 0.41 | 0.18 | 1.00 | 0.96 | 0.94 | 10% | 11% | <1.7 | 0F |
| | 2 | 30% | 21 | 21 | 0.19 | 0.09 | 0.99 | 0.89 | 0.32 | 10% | 20% | <1.7 | 32F |
| F15T8 | 1 | 100% | 31 | 31 | 0.28 | 0.13 | 1.00 | 0.93 | 1.14 | 10% | 15% | <1.7 | 0F |
| | 1 | 30% | 18 | 19 | 0.16 | 0.08 | 0.99 | 0.87 | 0.37 | 10% | 21% | <1.7 | 32F |
| | 2 | 100% | 35 | 34 | 0.30 | 0.14 | 1.00 | 0.94 | .95 | 5% | 13% | <1.7 | 0F |
| F36T8 | 2 | 30% | 17 | 17 | 0.15 | 0.08 | 0.99 | 0.86 | .15 | 10% | 23% | <1.7 | 32F |
| | 1 | 100% | 24 | 24 | 0.21 | 0.10 | 0.99 | 0.89 | 1.14 | 10% | 18% | <1.7 | 0F |
| | 1 | 30% | 15 | 15 | 0.13 | 0.07 | 0.99 | 0.83 | .36 | 10% | 24% | <1.7 | 32F |
| F40T8 | 2 | 100% | 28 | 28 | 0.25 | 0.12 | 1.00 | 0.92 | .92 | 10% | 15% | <1.7 | 0F |
| | 2 | 30% | 13 | 13 | 0.11 | 0.06 | 0.98 | 0.79 | .32 | 11% | 29% | <1.7 | 32F |
| | 1 | 100% | 21 | 21 | 0.18 | 0.09 | 0.99 | 0.88 | 1.15 | 10% | 19% | <1.7 | 0F |
| F36T8 | 1 | 30% | 11 | 11 | 0.09 | 0.06 | 0.98 | 0.75 | .45 | 12% | 32% | <1.7 | 32F |
| | 2 | 100% | 50 | 49 | 0.43 | 0.19 | 1.00 | 0.97 | .88 | 5% | 10% | <1.7 | 32F |
| | 2 | 30% | 24 | 24 | 0.21 | 0.10 | 0.99 | 0.91 | .23 | 10% | 18% | <1.7 | 32F |
| F40T8 | 1 | 100% | 33 | 33 | 0.29 | 0.13 | 1.00 | 0.93 | 1.13 | 10% | 14% | <1.7 | 32F |
| | 1 | 30% | 18 | 19 | 0.16 | 0.08 | 0.99 | 0.88 | .39 | 10% | 21% | <1.7 | 32F |
| | 1 | 100% | 45 | 44 | 0.39 | 0.17 | 1.00 | 0.96 | 1.04 | 5% | 11% | <1.7 | 32F |
| F40T8 | 1 | 30% | 24 | 24 | 0.21 | 0.10 | 0.99 | 0.91 | .42 | 10% | 18% | <1.7 | 32F |

Safety and performance



UL Type 1 Outdoor



UL Type HL ANSI - C82.11 Cons 2002, ANSI - C62.41 - 1991

Product is compliant with material restriction requirements of RoHS

FCC - Part 18 (Class A) for EMI and RFI Non-Consumer Limits cUL Listed



UL Type CC High Temperature Rated: Suitable for high temperature applications

70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty



UltraMax® Bi-Level Dimming & Load Shed Dimming Instant Start High-Efficiency T8 Dimming Ballasts

73233 – GE232MAX90-S60

UltraMax® Bi-Level Dimming Instant Start High-Efficiency

2 or 1 – F32T8 120 to 277 “H” 1.18 BF UltraMax® 100/60% step dim

- Bi-Level Switching 100 to 60%
- Anti-Striation Control for better light quality, with no striations.
- UL 55C Ambient Rating - High Temperature Protection Circuit
- Multi-Voltage Technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices.
- Cold temperature -22F Minimum Starting Temperature

| General characteristics | |
|-------------------------------|---------------------------------|
| Ballast Type | Electronic - Dimming |
| Dimming Type | Continuous |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10 % |
| Ambient Temperature (MAX) | 55° C (131° F) |
| Case Temperature (MAX) | 70° C (158° F) |
| Ballast Factor | High (1.18) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | No PCBs, Anti-striation control |



| Dimensions | |
|--|-------------------|
| Wiring diagram - LFL -2H S60- see example on Page 12-27 | |
| Case dimensions- Ref Drawing -A - see Page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25.0 in (635 mm) |
| Blue | 34.0 in (864 mm) |
| Red | 34.0 in (864 mm) |
| White | 25.0 in (635 mm) |
| Yellow | 41.0 in (1041 mm) |



| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency (MIN) | 60 Hz |


| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 73233 | | | |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|-----------|----------------------------|
| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 100% | 2 | 120 | 75 | 0.63 A | 1.18 | 1.57 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 74 | 0.27 A | 1.18 | 1.59 | 97 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 120 | 44 | 0.37 A | 0.71 | 1.61 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 44 | 0.17 A | 0.71 | 1.61 | 94 | 1.4 | 17 | -22/-30 |
| | 100% | 1 | 120 | 47 | 0.39 A | 1.38 | 2.94 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 1 | 277 | 47 | 0.18 A | 1.38 | 2.94 | 97 | 1.4 | 15 | -22/-30 |
| | 60% | 1 | 120 | 40 | 0.34 A | 1.26 | 3.15 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 1 | 277 | 40 | 0.15 A | 1.26 | 3.15 | 93 | 1.4 | 18 | -22/-30 |
| | 100% | 2 | 120 | 69 | 0.58 A | 1.18 | 1.71 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 2 | 277 | 68 | 0.16 A | 0.74 | 1.09 | 94 | 1.4 | 17 | 60/16 |
| | 60% | 2 | 120 | 43 | 0.36 A | 0.74 | 1.72 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 2 | 277 | 43 | 0.16 A | 0.74 | 1.72 | 94 | 1.4 | 17 | 60/16 |
| F32T8/AWM | 100% | 1 | 120 | 43 | 0.36 A | 1.37 | 3.19 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 1 | 277 | 43 | 0.16 A | 1.37 | 3.19 | 96 | 1.4 | 17 | 60/16 |
| | 60% | 1 | 120 | 39 | 0.33 A | 1.28 | 3.28 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 1 | 277 | 39 | 0.15 A | 1.28 | 3.28 | 96 | 1.4 | 18 | 60/16 |
| | 100% | 2 | 120 | 64 | 0.53 A | 1.18 | 1.84 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 63 | 0.23 A | 1.18 | 1.87 | 96 | 1.4 | 13 | -22/-30 |
| | 60% | 2 | 120 | 43 | 0.36 A | 0.76 | 1.77 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 43 | 0.16 A | 0.76 | 1.77 | 93 | 1.4 | 17 | -22/-30 |
| | 100% | 1 | 120 | 40 | 0.33 A | 1.35 | 3.38 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 1 | 277 | 40 | 0.15 A | 1.35 | 3.38 | 96 | 1.4 | 18 | -22/-30 |
| | 60% | 1 | 120 | 37 | 0.31 A | 1.32 | 3.57 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 1 | 277 | 37 | 0.14 A | 1.32 | 3.57 | 93 | 1.4 | 19 | -22/-30 |
| F28T8 | 100% | 2 | 120 | 59 | 0.49 A | 1.18 | 2.00 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 2 | 277 | 57 | 0.21 A | 1.18 | 2.07 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 2 | 120 | 43 | 0.36 A | 0.78 | 1.81 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 2 | 277 | 43 | 0.16 A | 0.78 | 1.81 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 1 | 120 | 36 | 0.31 A | 1.35 | 3.75 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 1 | 277 | 36 | 0.14 A | 1.35 | 3.75 | 95 | 1.4 | 19 | 60/16 |
| | 60% | 1 | 120 | 34 | 0.29 A | 1.33 | 3.91 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 1 | 277 | 34 | 0.13 A | 1.33 | 3.91 | 93 | 1.4 | 22 | 60/16 |
| | 100% | 2 | 120 | 42 | 0.35 A | 1.17 | 2.79 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 42 | 0.16 A | 1.17 | 2.79 | 96 | 1.4 | 17 | -22/-30 |
| | 60% | 2 | 120 | 38 | 0.32 A | 1.11 | 2.92 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 38 | 0.14 A | 1.11 | 2.92 | 96 | 1.4 | 18 | -22/-30 |
| F32T8/25W | 100% | 1 | 120 | 27 | 0.23 A | 1.37 | 5.07 | 99 | 1.4 | 11 | -22/-30 |
| | 100% | 1 | 277 | 27 | 0.11 A | 1.37 | 5.07 | 92 | 1.4 | 25 | -22/-30 |
| | 60% | 1 | 120 | 26 | 0.21 A | 1.36 | 5.23 | 99 | 1.4 | 12 | -22/-30 |
| | 60% | 1 | 277 | 26 | 0.10 A | 1.36 | 5.24 | 92 | 1.4 | 30 | -22/-30 |
| | 100% | 1 | 120 | 55 | 0.43 A | 1.28 | 2.33 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 1 | 277 | 55 | 0.20 A | 1.28 | 2.33 | 97 | 1.5 | 13 | -22/-30 |
| | 60% | 1 | 120 | 40 | 0.34 A | 1.13 | 2.82 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 1 | 277 | 40 | 0.15 A | 1.13 | 2.82 | 96 | 1.4 | 18 | -22/-30 |

Safety and performance

 UL Type 1 Outdoor
  UL Type HL ANSI - C82.11 Cons 2002, ANSI - C62.41 - 1991
 Product is compliant with material restriction requirements of RoHS

FCC – Part 18 (Class A) for EMI and RFI Non-Consumer Limits
  UL Listed
  UL Type CC
 High Temperature Rated: Suitable for high temperature applications

70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty
 

UltraMax® Bi-Level Dimming & Load Shed Dimming Instant Start High-Efficiency T8 Dimming Ballasts

73231 – GE332MAX90-S60

UltraMax® Bi-Level Dimming Instant Start High-Efficiency

3 – F32T8 120 to 277 “H” 1.18 BF UltraMax® 100/60% step dim

- Bi-Level Switching 100 to 60%
- Anti-Striation Control for better light quality, with no striations.
- UL 55C Ambient Rating - HighTemperature Protection Circuit
- Multi-Voltage Technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices.
- Cold temperature -22F Minimum Starting Temperature

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Dimming |
| Dimming Type | Step dimming |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10 % |
| Ambient Temperature (MAX) | 55° C (131° F) |
| Case Temperature (MAX) | 70° C (158° F) |
| Ballast Factor | High (1.18) |
| Power Factor Correction | Active |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Universal voltage, Inherent thermal protection |




| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency (MIN) | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 73231 | | | |

Specifications by lamp and wattage

| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|----------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|-----------|----------------------------|
| F32T8 | 100% | 3 | 120 | 113 | 0.94 A | 1.18 | 1.04 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 3 | 277 | 110 | 0.40 A | 1.18 | 1.07 | 97 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 120 | 66 | 0.55 A | 0.71 | 1.08 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 277 | 66 | 0.25 A | 0.71 | 1.08 | 94 | 1.4 | 17 | -22/-30 |
| | 100% | 2 | 120 | 86 | 0.72 A | 1.29 | 1.50 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 85 | 0.32 A | 1.29 | 1.52 | 97 | 1.4 | 13 | -22/-30 |
| | 60% | 2 | 120 | 61 | 0.51 A | 0.99 | 1.62 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 61 | 0.23 A | 0.99 | 1.62 | 93 | 1.4 | 18 | -22/-30 |
| | 100% | 3 | 120 | 103 | 0.86 A | 1.18 | 1.15 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 3 | 277 | 101 | 0.37 A | 1.18 | 1.17 | 97 | 1.4 | 10 | 60/16 |
| | 60% | 3 | 120 | 66 | 0.55 A | 0.75 | 1.14 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 3 | 277 | 62 | 0.23 A | 0.75 | 1.21 | 96 | 1.4 | 17 | 60/16 |
| F32T8/WM | 100% | 2 | 120 | 79 | 0.66 A | 1.26 | 1.59 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 2 | 277 | 78 | 0.29 A | 1.26 | 1.62 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 2 | 120 | 63 | 0.52 A | 1.05 | 1.67 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 2 | 277 | 63 | 0.24 A | 1.05 | 1.67 | 93 | 1.4 | 18 | 60/16 |
| | 100% | 3 | 120 | 95 | 0.79 A | 1.18 | 1.24 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 3 | 277 | 93 | 0.34 A | 1.18 | 1.27 | 96 | 1.4 | 13 | 60/16 |
| | 60% | 3 | 120 | 66 | 0.56 A | 0.75 | 1.14 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 3 | 277 | 65 | 0.24 A | 0.75 | 1.15 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 2 | 120 | 72 | 0.61 A | 1.26 | 1.75 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 71 | 0.27 A | 1.26 | 1.77 | 96 | 1.4 | 16 | -22/-30 |
| | 60% | 2 | 120 | 64 | 0.53 A | 1.05 | 1.64 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 63 | 0.24 A | 1.05 | 1.67 | 93 | 1.4 | 18 | -22/-30 |
| F28T8 | 100% | 3 | 120 | 91 | 0.77 A | 1.18 | 1.30 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 3 | 277 | 89 | 0.32 A | 1.18 | 1.33 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 3 | 120 | 67 | 0.56 A | 0.80 | 1.19 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 3 | 277 | 66 | 0.25 A | 0.80 | 1.21 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 2 | 120 | 67 | 0.56 A | 1.26 | 1.88 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 2 | 277 | 66 | 0.25 A | 1.26 | 1.91 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 2 | 120 | 64 | 0.53 A | 1.05 | 1.64 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 2 | 277 | 63 | 0.24 A | 1.05 | 1.67 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 3 | 120 | 62 | 0.52 A | 1.15 | 1.85 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 3 | 277 | 61 | 0.23 A | 1.15 | 1.89 | 96 | 1.4 | 17 | -22/-30 |
| | 60% | 3 | 120 | 59 | 0.50 A | 1.14 | 1.93 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 277 | 58 | 0.22 A | 1.14 | 1.97 | 96 | 1.4 | 17 | -22/-30 |
| F17T8 | 100% | 2 | 120 | 48 | 0.40 A | 1.27 | 2.65 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 48 | 0.19 A | 1.25 | 2.60 | 94 | 1.4 | 19 | -22/-30 |
| | 60% | 2 | 120 | 47 | 0.40 A | 1.25 | 2.66 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 47 | 0.18 A | 1.25 | 2.66 | 94 | 1.4 | 19 | -22/-30 |
| | 100% | 2 | 120 | 102 | 0.85 A | 1.22 | 1.20 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 100 | 0.37 A | 1.22 | 1.22 | 98 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 120 | 61 | 0.51 A | 0.68 | 1.11 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 61 | 0.23 A | 0.68 | 1.11 | 96 | 1.4 | 16 | -22/-30 |

Safety and performance

 UL Type 1 Outdoor
  UL Type HL ANSI - C82.11 Cons 2002, ANSI - C62.41 - 1991
 Product is compliant with material restriction requirements of RoHS
 FCC – Part 18 (Class A) for EMI and RFI Non-Consumer Limits
  UL Type CC
 High Temperature Rated: Suitable for high temperature applications
 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty
 

UltraMax® Bi-Level Dimming & Load Shed Dimming Instant Start High-Efficiency T8 Dimming Ballasts

73229 – GE432MAX90-S60

UltraMax® Bi-Level Dimming Instant Start High-Efficiency

4 – F32T8 120 to 277 “H” 1.18 BF UltraMax® 100/60% step dim

- Bi-Level Switching 100 to 60%
- Anti-Striation Control for better light quality, with no striations.
- UL 55C Ambient Rating - High Temperature Protection Circuit
- Multi-Voltage Technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices.
- Cold temperature -22F Minimum Starting Temperature

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Dimming |
| Dimming Type | Step dimming |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10 % |
| Ambient Temperature (MAX) | 55° C (131° F) |
| Case Temperature (MAX) | 70° C (158° F) |
| Ballast Factor | High (1.18) |
| Power Factor Correction | Active |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Universal voltage, Inherent thermal protection |

| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency (MIN) | 60 Hz |



| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 73231 | | | |



| Dimensions | |
|--|-------------------|
| Wiring diagram - LFL -4H S60 – see example on Page 12-26 | |
| Case dimensions- Ref Drawing -A – see Page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Qty Exit | Length (± 1 in.) |
| Black | 25.0 in (635 mm) |
| Blue | 34.0 in (864 mm) |
| Red | 34.0 in (864 mm) |
| White | 25.0 in (635 mm) |
| Yellow | 41.0 in (1041 mm) |


Specifications by lamp and wattage

| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
|-----------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|-----------|----------------------------|---------|
| F32T8 | 100% | 4 | 120 | 149 | 1.25 A | 1.18 | 0.79 | 99 | 1.4 | 10 | -22/-30 | |
| | 100% | 4 | 277 | 146 | 0.54 A | 0.71 | 0.49 | 97 | 1.4 | 10 | -22/-30 | |
| | 60% | 4 | 120 | 88 | 0.74 A | 0.71 | 0.81 | 99 | 1.4 | 10 | -22/-30 | |
| | 60% | 4 | 277 | 87 | 0.34 A | 0.71 | 0.82 | 94 | 1.4 | 17 | -22/-30 | |
| | 100% | 3 | 120 | 119 | 1.02 A | 1.28 | 1.08 | 99 | 1.4 | 10 | -22/-30 | |
| | 100% | 3 | 277 | 116 | 0.46 A | 1.28 | 1.10 | 97 | 1.4 | 13 | -22/-30 | |
| | 60% | 3 | 120 | 75 | 0.63 A | 0.78 | 1.04 | 99 | 1.4 | 10 | -22/-30 | |
| | 60% | 3 | 277 | 75 | 0.28 A | 0.78 | 1.04 | 93 | 1.4 | 18 | -22/-30 | |
| | 100% | 4 | 120 | 136 | 1.14 A | 0.73 | 0.54 | 99 | 1.4 | 10 | 60/16 | |
| | 100% | 4 | 277 | 133 | 0.49 A | 1.18 | 0.89 | 97 | 1.4 | 10 | 60/16 | |
| | 60% | 4 | 120 | 83 | 0.70 A | 0.73 | 0.88 | 99 | 1.4 | 10 | 60/16 | |
| | 60% | 4 | 277 | 83 | 0.31 A | 0.73 | 0.88 | 94 | 1.4 | 17 | 60/16 | |
| F32T8/AWM | 100% | 3 | 120 | 113 | 0.95 A | 1.25 | 1.11 | 99 | 1.4 | 10 | 60/16 | |
| | 100% | 3 | 277 | 112 | 0.41 A | 1.25 | 1.12 | 96 | 1.4 | 16 | 60/16 | |
| | 60% | 3 | 120 | 71 | 0.59 A | 0.79 | 1.11 | 99 | 1.4 | 10 | 60/16 | |
| | 60% | 3 | 277 | 71 | 0.27 A | 0.79 | 1.11 | 93 | 1.4 | 18 | 60/16 | |
| | 100% | 4 | 120 | 127 | 1.07 A | 1.18 | 0.93 | 99 | 1.4 | 10 | -22/-30 | |
| | 100% | 4 | 277 | 125 | 0.48 A | 1.18 | 0.94 | 96 | 1.4 | 13 | -22/-30 | |
| | 60% | 4 | 120 | 78 | 0.65 A | 0.74 | 0.95 | 99 | 1.4 | 10 | -22/-30 | |
| | 60% | 4 | 277 | 78 | 0.29 A | 0.74 | 0.95 | 93 | 1.4 | 17 | -22/-30 | |
| | 100% | 3 | 120 | 103 | 0.86 A | 1.24 | 1.20 | 99 | 1.4 | 10 | -22/-30 | |
| | 100% | 3 | 277 | 102 | 0.38 A | 1.24 | 1.22 | 96 | 1.4 | 16 | -22/-30 | |
| | 60% | 3 | 120 | 68 | 0.26 A | 0.80 | 1.18 | 99 | 1.4 | 10 | -22/-30 | |
| | 60% | 3 | 277 | 68 | 0.26 A | 0.80 | 1.18 | 93 | 1.4 | 18 | -22/-30 | |
| F28T8 | 100% | 4 | 120 | 116 | 0.96 A | 1.18 | 1.02 | 99 | 1.4 | 10 | 60/16 | |
| | 100% | 4 | 277 | 114 | 0.43 A | 1.18 | 1.04 | 96 | 1.4 | 16 | 60/16 | |
| | 60% | 4 | 120 | 75 | 0.63 A | 0.75 | 1.00 | 99 | 1.4 | 10 | 60/16 | |
| | 60% | 4 | 277 | 75 | 0.28 A | 0.75 | 1.00 | 93 | 1.4 | 17 | 60/16 | |
| | 100% | 3 | 120 | 96 | 0.80 A | 1.24 | 1.29 | 99 | 1.4 | 10 | 60/16 | |
| | 100% | 3 | 277 | 95 | 0.35 A | 1.24 | 1.31 | 97 | 1.4 | 16 | 60/16 | |
| | 60% | 3 | 120 | 66 | 0.55 A | 0.80 | 1.21 | 99 | 1.4 | 10 | 60/16 | |
| | 60% | 3 | 277 | 66 | 0.49 A | 0.80 | 1.21 | 93 | 1.4 | 17 | 60/16 | |
| | 100% | 4 | 120 | 81 | 0.69 A | 1.17 | 1.44 | 99 | 1.4 | 10 | -22/-30 | |
| | 100% | 4 | 277 | 80 | 0.32 A | 1.17 | 1.46 | 96 | 1.4 | 14 | -22/-30 | |
| | 60% | 4 | 120 | 64 | 0.54 A | 0.95 | 1.48 | 99 | 1.4 | 10 | -22/-30 | |
| | 60% | 4 | 277 | 64 | 0.25 A | 0.95 | 1.48 | 94 | 1.4 | 17 | -22/-30 | |
| F32T8/25W | 100% | 3 | 120 | 62 | 0.58 A | 1.25 | 2.02 | 99 | 1.4 | 10 | -22/-30 | |
| | 100% | 3 | 277 | 62 | 0.24 A | 1.25 | 2.02 | 95 | 1.4 | 18 | -22/-30 | |
| | 60% | 3 | 120 | 59 | 0.49 A | 1.24 | 2.10 | 99 | 1.4 | 10 | -22/-30 | |
| | 60% | 3 | 277 | 59 | 0.23 A | 1.24 | 2.10 | 93 | 1.5 | 18 | -22/-30 | |
| | 100% | 3 | 120 | 146 | 1.22 A | 1.22 | 0.84 | 99 | 1.4 | 10 | -22/-30 | |
| | 100% | 3 | 277 | 143 | 0.53 A | 1.22 | 0.85 | 97 | 1.4 | 10 | -22/-30 | |
| | 60% | 3 | 120 | 84 | 0.70 A | 0.66 | 0.79 | 99 | 1.4 | 10 | -22/-30 | |
| | 60% | 3 | 277 | 83 | 0.31 A | 0.66 | 0.80 | 96 | 1.4 | 14 | -22/-30 | |
| | F40T8 | 100% | 3 | 120 | 146 | 1.22 A | 1.22 | 0.84 | 99 | 1.4 | 10 | -22/-30 |
| | | 100% | 3 | 277 | 143 | 0.53 A | 1.22 | 0.85 | 97 | 1.4 | 10 | -22/-30 |
| | | 60% | 3 | 120 | 84 | 0.70 A | 0.66 | 0.79 | 99 | 1.4 | 10 | -22/-30 |

Safety and performance

 UL Type 1 Outdoor
  UL Type HL ANSI - C82.11 Cons 2002, ANSI - C62.41 - 1991
 Product is compliant with material restriction requirements of RoHS

FCC – Part 18 (Class A) for EMI and RFI Non-Consumer Limits
  UL Listed
  UL Type CC
 High Temperature Rated: Suitable for high temperature applications

70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty
 

UltraMax® Bi-Level Dimming & Load Shed Dimming Instant Start High-Efficiency T8 Dimming Ballasts

71497 – GE632MAX-H90-S60

UltraMax® Bi-Level Dimming
Instant Start High-Efficiency

6, 5, 4 – F32T8 120 to 277 “H” 1.18 BF UltraMax® 100/60% step dim

- Bi-Level Switching 100 to 60%
- Extreme 95% Electrical Efficiency
- UL 55C Ambient Rating - High Temperature Protection Circuit
- Cold temperature -20F Minimum Starting Temperature

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic - Dimming |
| Dimming Type | Step dimming |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10 % |
| Ambient Temperature (MAX) | 55° C (131° F) |
| Case Temperature (MAX) | 70° C (158° F) |
| Ballast Factor | High (1.18) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Universal voltage, Inherent thermal protection |

Electrical characteristics

| | |
|--------------------------------|-------|
| Supply Current Frequency (MIN) | 60 Hz |
|--------------------------------|-------|





Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 71497 | | | |

Specifications by lamp and wattage

| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
|-----------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|-----------|----------------------------|--|
| F32T8 | 100% | 6 | 120 | 221 | 1.94 A | 1.18 | 0.53 | 99 | 1.4 | 10 | -20/-29 | |
| | 100% | 6 | 277 | 215 | 0.82 A | 1.18 | 0.55 | 97 | 1.4 | 10 | -20/-29 | |
| | 60% | 6 | 120 | 133 | 1.13 A | 0.71 | 0.53 | 99 | 1.4 | 1 | -20/-29 | |
| | 60% | 6 | 277 | 132 | 0.53 A | 0.71 | 0.54 | 94 | 1.4 | 17 | -20/-29 | |
| | 100% | 5 | 120 | 197 | 1.73 A | 1.25 | 0.63 | 99 | 1.4 | 10 | -20/-29 | |
| | 100% | 5 | 277 | 192 | 0.73 A | 1.25 | 0.65 | 97 | 1.4 | 13 | -20/-29 | |
| | 60% | 5 | 120 | 123 | 1.04 A | 0.77 | 0.63 | 99 | 1.4 | 10 | -20/-29 | |
| | 60% | 5 | 277 | 122 | 0.49 A | 0.77 | 0.63 | 93 | 1.4 | 18 | -20/-29 | |
| | 100% | 6 | 120 | 205 | 1.80 A | 1.18 | 0.58 | 99 | 1.4 | 10 | 60/16 | |
| | 100% | 6 | 277 | 200 | 0.76 A | 1.18 | 0.59 | 97 | 1.4 | 10 | 60/16 | |
| | 60% | 6 | 120 | 128 | 1.09 A | 0.71 | 0.55 | 99 | 1.4 | 10 | 60/16 | |
| | 60% | 6 | 277 | 127 | 0.51 A | 0.71 | 0.56 | 94 | 1.4 | 17 | 60/16 | |
| F32T8/WM | 100% | 5 | 120 | 182 | 1.60 A | 1.23 | 0.68 | 99 | 1.4 | 10 | 60/16 | |
| | 100% | 5 | 277 | 178 | 0.68 A | 1.23 | 0.69 | 96 | 1.4 | 16 | 60/16 | |
| | 60% | 5 | 120 | 121 | 1.03 A | 0.82 | 0.68 | 99 | 1.4 | 10 | 60/16 | |
| | 60% | 5 | 277 | 120 | 0.49 A | 0.82 | 0.68 | 93 | 1.4 | 18 | 60/16 | |
| | 100% | 6 | 120 | 187 | 1.64 A | 1.18 | 0.63 | 99 | 1.4 | 10 | 60/16 | |
| | 100% | 6 | 277 | 184 | 0.70 A | 1.18 | 0.64 | 96 | 1.4 | 13 | 60/16 | |
| | 60% | 6 | 120 | 123 | 1.05 A | 0.74 | 0.60 | 99 | 1.4 | 10 | 60/16 | |
| | 60% | 6 | 277 | 122 | 0.50 A | 0.74 | 0.61 | 93 | 1.4 | 17 | 60/16 | |
| | 100% | 5 | 120 | 166 | 1.45 A | 1.20 | 0.72 | 99 | 1.4 | 10 | 60/16 | |
| | 100% | 5 | 277 | 164 | 0.63 A | 1.20 | 0.73 | 96 | 1.4 | 16 | 60/16 | |
| | 60% | 5 | 120 | | | | | | | | | |
| | 60% | 5 | 277 | | | | | | | | | |
| F28T8 | 100% | 6 | 120 | 178 | 1.57 A | 1.18 | 0.66 | 99 | 1.4 | 10 | 60/16 | |
| | 100% | 6 | 277 | 176 | 0.68 A | 1.18 | 0.67 | 96 | 1.4 | 16 | 60/16 | |
| | 60% | 6 | 120 | 122 | 1.03 A | 0.70 | 0.57 | 99 | 1.4 | 10 | 60/16 | |
| F32T8/25W | 60% | 6 | 277 | 121 | 0.49 A | 0.70 | 0.58 | 93 | 1.4 | 17 | 60/16 | |
| | 100% | 5 | 120 | 159 | 1.40 A | 1.16 | 0.73 | 99 | 1.4 | 10 | -20/-29 | |
| | 100% | 5 | 277 | 157 | 0.61 A | 1.16 | 0.74 | 95 | 1.4 | 18 | -20/-29 | |
| F25T8 | 60% | 5 | 120 | 118 | 1.01 A | 0.87 | 0.74 | 99 | 1.4 | 10 | -20/-29 | |
| | 60% | 5 | 277 | 117 | 0.48 A | 0.87 | 0.74 | 93 | 1.4 | 20 | -20/-29 | |
| | 100% | 6 | 120 | 122 | 1.08 A | 1.17 | 0.96 | 99 | 1.4 | 10 | -20/-29 | |
| F17T8 | 100% | 6 | 277 | 121 | 0.50 A | 1.17 | 0.97 | 90 | 1.4 | 24 | -20/-29 | |
| | 60% | 6 | 120 | 104 | 0.88 A | 1.03 | 0.99 | 99 | 1.4 | 10 | -20/-29 | |
| | 60% | 6 | 277 | 103 | 0.43 A | 1.03 | 1.00 | 89 | 1.4 | 24 | -20/-29 | |
| | 100% | 5 | 120 | 107 | 0.95 A | 1.24 | 1.16 | 99 | 1.4 | 10 | -20/-29 | |
| | 100% | 5 | 277 | 106 | 0.44 A | 1.24 | 1.17 | 88 | 1.4 | 26 | -20/-29 | |
| | 60% | 5 | 120 | 98 | 0.83 A | 1.16 | 1.18 | 99 | 1.4 | 10 | -20/-29 | |
| | 60% | 5 | 277 | 98 | 0.42 A | 1.16 | 1.18 | 88 | 1.4 | 26 | -20/-29 | |
| | 100% | 5 | 120 | 231 | 2.03 A | 1.18 | 0.51 | 99 | 1.4 | 10 | 0/-18 | |
| | 100% | 5 | 277 | 225 | 0.86 A | 1.18 | 0.52 | 97 | 1.4 | 10 | 0/-18 | |
| | 60% | 5 | 120 | 131 | 1.12 A | 0.64 | 0.49 | 99 | 1.4 | 10 | 0/-18 | |
| | 60% | 5 | 277 | 130 | 0.53 A | 0.64 | 0.49 | 94 | 1.4 | 17 | 0/-18 | |

Safety and performance

 UL Type 1 Outdoor
  UL Type HL ANSI - C82.11 Cons 2002, ANSI - C62.41 - 1991
 Product is compliant with material restriction requirements of RoHS
 FCC - Part 18 (Class A) for EMI and RFI Non-Consumer Limits
  UL Type CC
 High Temperature Rated: Suitable for high temperature applications
 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty
 

UltraMax® Bi-Level Dimming & Load Shed Dimming Instant Start High-Efficiency T8 Dimming Ballasts

73234 – GE232MAX90-V60

UltraMax® Load Shed Dimming Instant Start High-Efficiency

2 or 1 – F32T8 120 to 277 “H” 1.18 BF UltraMax® 0-10V 100-60% dim

- Load Shed Variable Dimming 0-10V 100% to 60%
- Anti-Striation Control for better light quality, with no striations.
- UL 55C Ambient Rating - High Temperature Protection Circuit
- Multi-Voltage Technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices.
- Cold temperature -22F Minimum Starting Temperature

| General characteristics | |
|-------------------------------|---------------------------------|
| Ballast Type | Electronic - Dimming |
| Dimming Type | Continuous |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55° C (131° F) |
| Case Temperature (MAX) | 70° C (158° F) |
| Ballast Factor | High (1.18) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | No PCBs. Anti-striation control |





| Dimensions | |
|---|-------------------------|
| Wiring diagram - LFL -2H V60 – see example on Page 12-27 | |
| Case dimensions- Ref Drawing -A – see Page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in.) |
| Black | 25.0 in (635 mm) |
| Blue | 34.0 in (864 mm) |
| Gray | 25.0 in (635 mm) |
| Red | 34.0 in (864 mm) |
| Violet | 25.0 in (635 mm) |
| White | 25.0 in (635 mm) |
| Yellow | 41.0 in (1041 mm) |

| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency (MIN) | 60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 73234 | | | |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|-----------|----------------------------|
| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 100% | 2 | 120 | 75 | 0.63 A | 1.18 | 1.57 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 74 | 0.28 A | 1.18 | 1.59 | 96 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 120 | 44 | 0.36 A | 0.71 | 1.61 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 43 | 0.17 A | 0.71 | 1.65 | 94 | 1.4 | 18 | -22/-30 |
| | 100% | 1 | 120 | 47 | 0.39 A | 1.38 | 2.94 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 1 | 277 | 47 | 0.18 A | 1.38 | 2.94 | 92 | 1.4 | 18 | -22/-30 |
| | 60% | 1 | 120 | 45 | 0.38 A | 1.34 | 2.98 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 1 | 277 | 45 | 0.18 A | 1.34 | 2.98 | 92 | 1.4 | 18 | -22/-30 |
| | 100% | 2 | 120 | 69 | 0.57 A | 1.18 | 1.71 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 2 | 277 | 68 | 0.25 A | 1.18 | 1.74 | 96 | 1.4 | 11 | 60/16 |
| | 60% | 2 | 120 | 46 | 0.39 A | 0.77 | 1.67 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 2 | 277 | 46 | 0.18 A | 0.77 | 1.67 | 92 | 1.4 | 18 | 60/16 |
| F32T8/AWM | 100% | 1 | 120 | 43 | 0.36 A | 1.37 | 3.19 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 1 | 277 | 43 | 0.17 A | 1.37 | 3.19 | 92 | 1.4 | 20 | 60/16 |
| | 60% | 1 | 120 | 42 | 0.35 A | 1.36 | 3.24 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 1 | 277 | 42 | 0.17 A | 1.36 | 3.24 | 91 | 1.4 | 21 | 60/16 |
| | 100% | 2 | 120 | 63 | 0.53 A | 1.18 | 1.87 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 62 | 0.24 A | 1.18 | 1.90 | 95 | 1.4 | 13 | -22/-30 |
| | 60% | 2 | 120 | 46 | 0.39 A | 0.79 | 1.72 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 46 | 0.18 A | 0.79 | 1.72 | 92 | 1.4 | 19 | -22/-30 |
| | 100% | 1 | 120 | 39 | 0.33 A | 1.35 | 3.46 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 1 | 277 | 39 | 0.16 A | 1.35 | 3.46 | 90 | 1.4 | 26 | -22/-30 |
| | 60% | 1 | 120 | 38 | 0.32 A | 1.34 | 3.53 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 1 | 277 | 38 | 0.16 A | 1.34 | 3.53 | 90 | 1.4 | 26 | -22/-30 |
| F28T8 | 100% | 2 | 120 | 59 | 0.48 A | 1.18 | 2.00 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 2 | 277 | 57 | 0.22 A | 1.18 | 2.07 | 94 | 1.4 | 16 | 60/16 |
| | 60% | 2 | 120 | 46 | 0.38 A | 0.81 | 1.76 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 2 | 277 | 46 | 0.18 A | 0.81 | 1.76 | 92 | 1.4 | 19 | 60/16 |
| | query | 1 | 120 | 36 | 0.30 A | 1.35 | 3.75 | 99 | 1.4 | 10 | 60/16 |
| | query | 1 | 277 | 36 | 0.15 A | 1.35 | 3.75 | 88 | 1.4 | 26 | 60/16 |
| | query | 1 | 120 | 36 | 0.30 A | 1.35 | 3.75 | 99 | 1.4 | 10 | 60/16 |
| | query | 1 | 277 | 36 | 0.15 A | 1.35 | 3.75 | 88 | 1.4 | 26 | 60/16 |
| | 100% | 2 | 120 | 42 | 0.35 A | 1.17 | 2.79 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 42 | 0.17 A | 1.17 | 2.79 | 90 | 1.4 | 24 | -22/-30 |
| | 60% | 2 | 120 | 41 | 0.34 A | 1.16 | 2.83 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 41 | 0.16 A | 1.16 | 2.83 | 90 | 1.4 | 24 | -22/-30 |
| F17T8 | 100% | 1 | 120 | 56 | 0.46 A | 1.28 | 2.29 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 1 | 277 | 55 | 0.21 A | 1.28 | 2.33 | 94 | 1.4 | 15 | -22/-30 |
| | 60% | 1 | 120 | 46 | 0.39 A | 1.18 | 2.57 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 1 | 277 | 46 | 0.18 A | 1.18 | 2.57 | 92 | 1.4 | 18 | -22/-30 |
| F40T8 | 60% | 1 | 277 | 46 | 0.18 A | 1.18 | 2.57 | 92 | 1.4 | 18 | -22/-30 |

Safety and performance

 UL Type 1 Outdoor
  UL Type HL ANSI - C82.11 Cons 2002, ANSI - C62.41 - 1991
 Product is compliant with material restriction requirements of RoHS
 FCC - Part 18 (Class A) for EMI and RFI Non-Consumer Limits cUL Listed
  UL Type CC High Temperature Rated: Suitable for high temperature applications
 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty
 

UltraMax® Bi-Level Dimming & Load Shed Dimming Instant Start High-Efficiency T8 Dimming Ballasts

73232 – GE332MAX90-V60

UltraMax® Load Shed Dimming Instant Start High-Efficiency

3 – F32T8 120 to 277 “H” 1.18 BF UltraMax® 0-10V 100-60% dim

- Load Shed Variable Dimming 0-10V 100% to 60%
- Anti-Striation Control for better light quality, with no striations.
- UL 55C Ambient Rating - High Temperature Protection Circuit
- Multi-Voltage Technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices.
- Cold temperature -22F Minimum Starting Temperature

| General characteristics | |
|-------------------------------|---------------------------------|
| Ballast Type | Electronic - Dimming |
| Dimming Type | Continuous |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55° C (131° F) |
| Case Temperature (MAX) | 70° C (158° F) |
| Ballast Factor | High (1.18) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | No PCBs, Anti-striation control |

| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency (MIN) | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 73232 | | | |

| Dimensions | |
|--|-------------------|
| Wiring diagram - LFL -3H V60 – see example on Page 12-27 | |
| Case dimensions- Ref Drawing -A – see Page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Blue | 34.0 in (864 mm) |
| Violet | 25.0 in (635 mm) |
| Red | 34.0 in (864 mm) |
| Yellow | 41.0 in (1041 mm) |
| Black | 25.0 in (635 mm) |
| White | 25.0 in (635 mm) |
| Gray | 25.0 in (635 mm) |

Specifications by lamp and wattage

| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|-----------|----------------------------|
| F32T8 | 100% | 3 | 120 | 113 | 0.94 A | 1.18 | 1.04 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 3 | 277 | 110 | 0.41 A | 1.18 | 1.07 | 97 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 120 | 66 | 0.55 A | 0.71 | 1.08 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 277 | 65 | 0.25 A | 0.71 | 1.09 | 94 | 1.4 | 17 | -22/-30 |
| | 100% | 2 | 120 | 85 | 0.72 A | 1.29 | 1.52 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 84 | 0.32 A | 1.29 | 1.54 | 97 | 1.4 | 13 | -22/-30 |
| | 60% | 2 | 120 | 72 | 0.62 A | 1.05 | 1.46 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 72 | 0.28 A | 1.05 | 1.46 | 93 | 1.4 | 18 | -22/-30 |
| | 100% | 3 | 120 | 104 | 0.91 A | 1.18 | 1.13 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 3 | 277 | 102 | 0.38 A | 1.18 | 1.16 | 97 | 1.4 | 10 | 60/16 |
| | 60% | 3 | 120 | 72 | 0.61 A | 0.78 | 1.08 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 3 | 277 | 71 | 0.28 A | 0.78 | 1.10 | 94 | 1.4 | 17 | 60/16 |
| F32T8/WM | 100% | 2 | 120 | 79 | 0.67 A | 1.26 | 1.59 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 2 | 277 | 78 | 0.30 A | 1.26 | 1.62 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 2 | 120 | 65 | 0.61 A | 1.07 | 1.65 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 2 | 277 | 65 | 0.27 A | 1.07 | 1.65 | 93 | 1.4 | 18 | 60/16 |
| | 100% | 3 | 120 | 95 | 0.81 A | 1.18 | 1.24 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 3 | 277 | 94 | 0.35 A | 1.18 | 1.26 | 96 | 1.4 | 13 | 60/16 |
| | 60% | 3 | 120 | 71 | 0.64 A | 0.87 | 1.23 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 3 | 277 | 70 | 0.28 A | 0.87 | 1.24 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 2 | 120 | 73 | 0.61 A | 1.26 | 1.73 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 72 | 0.27 A | 1.26 | 1.75 | 95 | 1.4 | 16 | -22/-30 |
| | 60% | 2 | 120 | 68 | 0.57 A | 1.10 | 1.62 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 67 | 0.25 A | 1.10 | 1.64 | 93 | 1.4 | 18 | -22/-30 |
| F28T8 | 100% | 3 | 120 | 91 | 0.77 A | 1.18 | 1.30 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 3 | 277 | 89 | 0.33 A | 1.18 | 1.33 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 3 | 120 | 71 | 0.63 A | 0.89 | 1.25 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 3 | 277 | 70 | 0.28 A | 0.89 | 1.27 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 2 | 120 | 69 | 0.57 A | 1.26 | 1.83 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 2 | 277 | 68 | 0.26 A | 1.26 | 1.85 | 95 | 1.4 | 17 | 60/16 |
| | 60% | 2 | 120 | 64 | 0.54 A | 1.15 | 1.80 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 2 | 277 | 63 | 0.24 A | 1.15 | 1.83 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 3 | 120 | 61 | 0.54 A | 1.15 | 1.88 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 3 | 277 | 60 | 0.24 A | 1.15 | 1.92 | 95 | 1.4 | 17 | -22/-30 |
| | 60% | 3 | 120 | 58 | 0.51 A | 1.14 | 1.97 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 277 | 58 | 0.23 A | 1.14 | 1.97 | 94 | 1.4 | 17 | -22/-30 |
| F32T8/25W | 100% | 2 | 120 | 47 | 0.41 A | 1.27 | 2.70 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 47 | 0.20 A | 1.27 | 2.70 | 91 | 1.4 | 21 | -22/-30 |
| | 60% | 2 | 120 | 45 | 0.40 A | 1.25 | 2.78 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 45 | 0.19 A | 1.25 | 2.78 | 91 | 1.4 | 20 | -22/-30 |
| | 100% | 2 | 120 | 104 | 0.87 A | 1.22 | 1.17 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 102 | 0.38 A | 1.22 | 1.20 | 97 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 120 | 66 | 0.61 A | 0.68 | 1.03 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 65 | 0.27 A | 0.68 | 1.05 | 96 | 1.4 | 14 | -22/-30 |

Safety and performance

UL Type 1 Outdoor
 UL Type HL
 ANSI - C82.11 Cons 2002,
 ANSI - C62.41 - 1991
 Product is compliant with material restriction requirements of RoHS

FCC - Part 18 (Class A) for EMI and RFI Non-Consumer Limits
 cUL Listed
 UL Type CC
 NEMA Premium

High Temperature Rated: Suitable for high temperature applications 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty

UltraMax® Bi-Level Dimming & Load Shed Dimming Instant Start High-Efficiency T8 Dimming Ballasts

73230 – GE432MAX90-V60

UltraMax® Load Shed Dimming Instant Start High-Efficiency

4 – F32T8 120 to 277 “H” 1.18 BF UltraMax® 0-10V 100-60% dim

| General characteristics | |
|-------------------------------|---------------------------------|
| Ballast Type | Electronic - Dimming |
| Dimming Type | Continuous |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55° C (131° F) |
| Case Temperature (MAX) | 70° C (158° F) |
| Ballast Factor | High (1.18) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | No PCBs, Anti-striation control |

| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency (MIN) | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 73230 | | | |

Specifications by lamp and wattage

| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|-----------|----------------------------|
| F32T8 | 100% | 4 | 120 | 149 | 1.25 A | 1.18 | 0.79 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 4 | 277 | 146 | 0.54 A | 1.18 | 0.81 | 97 | 1.4 | 10 | -22/-30 |
| | 60% | 4 | 120 | 88 | 0.74 A | 0.71 | 0.81 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 4 | 277 | 87 | 0.34 A | 0.71 | 0.82 | 94 | 1.4 | 17 | -22/-30 |
| | 100% | 3 | 277 | 116 | 0.46 A | 1.28 | 1.10 | 96 | 1.4 | 13 | -22/-30 |
| | 100% | 3 | 120 | 119 | 1.02 A | 1.28 | 1.08 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 120 | 84 | 0.70 A | 0.89 | 1.06 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 277 | 83 | 0.32 A | 0.89 | 1.07 | 93 | 1.4 | 18 | -22/-30 |
| | 100% | 4 | 120 | 136 | 1.14 A | 0.73 | 0.54 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 4 | 277 | 133 | 0.49 A | 1.18 | 0.89 | 97 | 1.4 | 10 | 60/16 |
| | 60% | 4 | 120 | 93 | 0.78 A | 0.77 | 0.83 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 4 | 277 | 92 | 0.35 A | 0.77 | 0.84 | 94 | 1.4 | 17 | 60/16 |
| F32T8/WM | 100% | 3 | 120 | 113 | 0.95 A | 1.25 | 1.11 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 3 | 277 | 111 | 0.42 A | 1.25 | 1.13 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 3 | 120 | 89 | 0.75 A | 0.91 | 1.02 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 3 | 277 | 89 | 0.34 A | 0.91 | 1.02 | 93 | 1.4 | 18 | 60/16 |
| | 100% | 4 | 120 | 127 | 1.07 A | 1.18 | 0.93 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 4 | 277 | 125 | 0.48 A | 1.18 | 0.94 | 96 | 1.4 | 13 | 60/16 |
| | 60% | 4 | 120 | 95 | 0.79 A | 0.87 | 0.92 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 4 | 277 | 94 | 0.36 A | 0.87 | 0.93 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 3 | 120 | 104 | 0.86 A | 1.24 | 1.19 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 3 | 277 | 102 | 0.38 A | 1.24 | 1.22 | 95 | 1.4 | 16 | -22/-30 |
| | 60% | 3 | 120 | 89 | 0.74 A | 1.18 | 1.33 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 277 | 89 | 0.34 A | 1.18 | 1.33 | 93 | 1.4 | 18 | -22/-30 |
| F28T8 | 100% | 4 | 120 | 116 | 0.96 A | 1.18 | 1.02 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 4 | 277 | 114 | 0.43 A | 1.18 | 1.04 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 4 | 120 | 94 | 0.79 A | 0.87 | 0.93 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 4 | 277 | 93 | 0.36 A | 0.87 | 0.94 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 3 | 120 | 95 | 0.80 A | 1.24 | 1.31 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 3 | 277 | 94 | 0.36 A | 1.24 | 1.32 | 94 | 1.4 | 16 | 60/16 |
| | 60% | 3 | 120 | 90 | 0.75 A | 1.22 | 1.36 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 3 | 277 | 89 | 0.34 A | 1.22 | 1.37 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 4 | 120 | 81 | 0.69 A | 1.17 | 1.44 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 4 | 277 | 80 | 0.32 A | 1.17 | 1.46 | 96 | 1.4 | 14 | -22/-30 |
| | 60% | 4 | 120 | 64 | 0.54 A | 0.95 | 1.48 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 4 | 277 | 64 | 0.25 A | 0.95 | 1.48 | 94 | 1.4 | 17 | -22/-30 |
| F32T8/25W | 100% | 3 | 120 | 62 | 0.58 A | 1.25 | 2.02 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 3 | 277 | 62 | 0.24 A | 1.25 | 2.02 | 95 | 1.4 | 18 | -22/-30 |
| | 60% | 3 | 120 | 59 | 0.49 A | 1.24 | 2.10 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 277 | 59 | 0.23 A | 1.24 | 2.10 | 93 | 1.5 | 18 | -22/-30 |
| | 100% | 3 | 120 | 147 | 1.22 A | 1.22 | 0.83 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 3 | 277 | 144 | 0.53 A | 1.22 | 0.85 | 97 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 120 | 86 | 0.72 A | 0.66 | 0.77 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 277 | 86 | 0.33 A | 0.66 | 0.77 | 96 | 1.4 | 14 | -22/-30 |

Safety and performance

 UL Type 1 Outdoor
  UL Type HL
 ANSI - C82.11 Cons 2002, ANSI - C62.41 - 1991
 Product is compliant with material restriction requirements of RoHS

FCC - Part 18 (Class A) for EMI and RFI Non-Consumer Limits
  cUL Listed
  UL Type CC
  NEMA Premium

High Temperature Rated: Suitable for high temperature applications 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty

- Load Shed Variable Dimming 0-10V 100% to 60%
- Anti-Striation Control for better light quality, with no striations.
- UL 55C Ambient Rating - High Temperature Protection Circuit
- Multi-Voltage Technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices.
- Cold temperature -22F Minimum Starting Temperature

Dimensions

| Wiring diagram - LFL - 4H V60 - see example on Page 12-26 | |
|---|-------------------|
| Case dimensions- Ref Drawing -A - see Page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| | Length (± 1 in.) |
| Black | 25.0 in (635 mm) |
| Blue | 34.0 in (864 mm) |
| Gray | 25.0 in (635 mm) |
| Red | 34.0 in (864 mm) |
| Violet | 25.0 in (635 mm) |
| White | 25.0 in (635 mm) |
| Yellow | 41.0 in (1041 mm) |

UltraMax® Bi-Level Dimming & Load Shed Dimming Instant Start High-Efficiency T8 Dimming Ballasts

71731 – GE632MAX-H90-V60

UltraMax® Load Shed Dimming Instant Start High-Efficiency

6 or 5 – F32T8 120 to 277 “H” 1.18 BF UltraMax® 0-10V 100-60% dim

- Load Shed Variable Dimming 0-10V 100% to 60%
- Anti-Striation Control for better light quality, with no striations.
- Extreme 95% Electrical Efficiency
- UL 55C Ambient Rating - High Temperature Protection Circuit
- Multi-Voltage Technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices.
- Cold temperature -20F Minimum Starting Temperature

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Dimming |
| Dimming Type | Continuous |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55° C (131° F) |
| Case Temperature (MAX) | 70° C (158° F) |
| Ballast Factor | High (1.18) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Universal voltage, Inherent thermal protection |

| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency (MIN) | 60 Hz |





| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 71731 | | | |

| Dimensions | |
|--|-------------------|
| Wiring diagram - LFL -6H V60 – see example on Page 12-26 | |
| Case dimensions- Ref Drawing -A – see Page 12-29 | |
| Length (L) | 11.75 in (299 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 3.10 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| | Length (+ 1 in.) |
| Black | 25.0 in (635 mm) |
| Blue | 34.0 in (864 mm) |
| Gray | 25.0 in (635 mm) |
| Red | 34.0 in (864 mm) |
| Violet | 25.0 in (635 mm) |
| White | 25.0 in (635 mm) |
| Yellow | 41.0 in (1041 mm) |

Specifications by lamp and wattage

| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|----------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|-----------|----------------------------|
| F32T8 | 100% | 6 | 120 | 221 | 1.94 A | 1.18 | 0.53 | 99 | 1.4 | 10 | -20/-29 |
| | 100% | 6 | 277 | 215 | 0.82 A | 1.18 | 0.55 | 97 | 1.4 | 10 | -20/-29 |
| | 60% | 6 | 120 | 133 | 1.13 A | 0.71 | 0.53 | 99 | 1.4 | 1 | -20/-29 |
| | 60% | 6 | 277 | 132 | 0.53 A | 0.71 | 0.54 | 94 | 1.4 | 17 | -20/-29 |
| | 100% | 5 | 120 | 197 | 1.73 A | 1.25 | 0.63 | 99 | 1.4 | 10 | -20/-29 |
| | 100% | 5 | 277 | 192 | 0.73 A | 1.25 | 0.65 | 97 | 1.4 | 13 | -20/-29 |
| | 60% | 5 | 120 | 123 | 1.04 A | 0.77 | 0.63 | 99 | 1.4 | 10 | -20/-29 |
| | 60% | 5 | 277 | 122 | 0.49 A | 0.77 | 0.63 | 93 | 1.4 | 18 | -20/-29 |
| | 100% | 6 | 120 | 205 | 1.80 A | 1.18 | 0.58 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 6 | 277 | 200 | 0.76 A | 1.18 | 0.59 | 97 | 1.4 | 10 | 60/16 |
| | 60% | 6 | 120 | 128 | 1.09 A | 0.71 | 0.55 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 6 | 277 | 127 | 0.51 A | 0.71 | 0.56 | 94 | 1.4 | 17 | 60/16 |
| F32T8/WM | 100% | 5 | 120 | 182 | 1.60 A | 1.23 | 0.68 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 5 | 277 | 178 | 0.68 A | 1.23 | 0.69 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 5 | 120 | 121 | 1.03 A | 0.82 | 0.68 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 5 | 277 | 120 | 0.49 A | 0.82 | 0.68 | 93 | 1.4 | 18 | 60/16 |
| | 100% | 6 | 120 | 187 | 1.64 A | 1.18 | 0.63 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 6 | 277 | 184 | 0.70 A | 1.18 | 0.64 | 96 | 1.4 | 13 | 60/16 |
| | 60% | 6 | 120 | 123 | 1.05 A | 0.74 | 0.60 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 6 | 277 | 122 | 0.50 A | 0.74 | 0.61 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 5 | 120 | 166 | 1.45 A | 1.20 | 0.72 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 5 | 277 | 164 | 0.63 A | 1.20 | 0.73 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 5 | 120 | 119 | 1.01 A | 0.86 | 0.72 | 99 | 1.4 | 10 | -20/-29 |
| | 60% | 5 | 277 | 118 | 0.48 A | 0.86 | 0.73 | 93 | 1.4 | 18 | 60/16 |
| F28T8 | 100% | 6 | 120 | 178 | 1.57 A | 1.18 | 0.66 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 6 | 277 | 176 | 0.68 A | 1.18 | 0.67 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 6 | 120 | 122 | 1.03 A | 0.70 | 0.57 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 6 | 277 | 121 | 0.49 A | 0.70 | 0.58 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 5 | 120 | 159 | 1.40 A | 1.16 | 0.73 | 99 | 1.4 | 10 | -20/-29 |
| | 100% | 5 | 277 | 157 | 0.61 A | 1.16 | 0.74 | 95 | 1.4 | 18 | -20/-29 |
| F25T8 | 60% | 5 | 120 | 118 | 1.01 A | 0.87 | 0.74 | 99 | 1.4 | 10 | -20/-29 |
| | 60% | 5 | 277 | 117 | 0.48 A | 0.87 | 0.74 | 93 | 1.4 | 20 | -20/-29 |
| | 100% | 6 | 120 | 122 | 1.08 A | 1.17 | 0.96 | 99 | 1.4 | 10 | -20/-29 |
| | 100% | 6 | 277 | 121 | 0.50 A | 1.17 | 0.97 | 99 | 1.4 | 24 | -20/-29 |
| | 60% | 6 | 120 | 104 | 0.88 A | 1.03 | 0.99 | 99 | 1.4 | 10 | -20/-29 |
| | 60% | 6 | 277 | 103 | 0.43 A | 1.03 | 1.00 | 89 | 1.4 | 24 | -20/-29 |
| F17T8 | 100% | 5 | 120 | 107 | 0.95 A | 1.24 | 1.16 | 99 | 1.4 | 10 | -20/-29 |
| | 100% | 5 | 277 | 106 | 0.44 A | 1.24 | 1.17 | 88 | 1.4 | 26 | -20/-29 |
| | 60% | 5 | 120 | 98 | 0.83 A | 1.16 | 1.18 | 99 | 1.4 | 10 | -20/-29 |
| | 60% | 5 | 277 | 98 | 0.42 A | 1.16 | 1.18 | 88 | 1.4 | 26 | -20/-29 |
| | 100% | 5 | 120 | 231 | 2.03 A | 1.18 | 0.51 | 99 | 1.4 | 10 | 0/-18 |
| | 100% | 5 | 277 | 225 | 0.86 A | 1.18 | 0.52 | 97 | 1.4 | 10 | 0/-18 |
| F40T8 | 60% | 5 | 120 | 131 | 1.12 A | 0.64 | 0.49 | 99 | 1.4 | 10 | 0/-18 |
| | 60% | 5 | 277 | 130 | 0.53 A | 0.64 | 0.49 | 94 | 1.4 | 17 | 0/-18 |

Safety and performance

 UL Type 1 Outdoor
  UL Type HL
 ANSI - C82.11 Cons 2002, ANSI - C62.41 - 1991
 Product is compliant with material restriction requirements of RoHS
 FCC – Part 18 (Class A) for EMI and RFI Non-Consumer Limits
 cUL Listed
 UL Type CC
 High Temperature Rated: Suitable for high temperature applications
 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty


Ballasts
 T8 Instant Start
 T8 Programmed Start
 T8/75 Dimming
 T5 Electronic Programmed Start
 T12 Electronic & High Output
 Magnetic
 Sign
 Compact Fluorescent
 HID Electronic & Electromagnetic

UltraStart® T8 100-3% 0-10V 120-277V Programmed Start Dimming T8 Dimming Ballasts

75379 – GE132MVPS-N-V03

T8 Dimming/UltraStart® T8 100-3% 0-10V

Programmed Start Dimming

1 – F32T8 120V-277V “N” .88 BF UltraStart® 0-10V Dimming 100-3%

- High Efficiency 100-3% 0-10V Programmed Start Dimming
- Multi-Voltage Technology handles voltage from 120 to 277V
- Parallel Lamp Operation - reliable deep dimming performance
- NEMA LL-9 Compliant - GE programmed start life and warranty ratings
- Anti-striation control for use with F32T8/WM or F28T8 Lamps
- UL Type CC rating provides protection against arcing in electrical devices
- UL 55C Ambient Rating - high temperature protection circuit
- Compatible with Class 1 or Class 2 LV 0-10VDC controllers

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Dimming |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10 % |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70° C (158° F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Thermally protected, Universal voltage |

| Electrical characteristics | |
|--------------------------------|------------|
| Supply Current Frequency | 50Hz |
| Supply Current Frequency (MIN) | 50Hz/60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75379 | | | |

| Dimensions | |
|--|-------------------|
| Wiring diagram – LFL PSD1 – see example on page 12-28 | |
| Case dimensions – Ref Drawing - A – see page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 5 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Length (± 1 in.) | |
| Yellow | 47.0 in (1194 mm) |
| White | 25.0 in (635 mm) |
| Red | 33.0 in (838 mm) |
| Blue | 33.0 in (838 mm) |
| Black | 25.0 in (635 mm) |
| Violet | 25.0 in (635 mm) |
| Gray | 25.0 in (635 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|------------------|-----------|----------------------------|
| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (=) | THD % (=) | Min. Starting Temp (°F/°C) |
| F32T8 | 100% | 1 | 120 | 30 | 0.25 A | 0.88 | | 98 | 1.7 | 10 | |
| | 100% | 1 | 277 | 29 | 0.11 A | 0.88 | | 98 | 1.7 | 10 | |
| | 3% | 1 | 120 | 7 | 0.06 A | 0.01 | | 90 | 1.7 | 32 | |
| F32T8/WM | 100% | 1 | 277 | 7 | 0.03 A | 0.01 | | 90 | 1.7 | 32 | |
| | 100% | 1 | 120 | 28 | 0.24 A | 0.88 | | 98 | 1.7 | 10 | |
| | 100% | 1 | 277 | 28 | 0.10 A | 0.88 | | 98 | 1.7 | 10 | |
| F28T8 | 3% | 1 | 120 | 7 | 0.05 A | 0.01 | | 90 | 1.7 | 32 | |
| | 3% | 1 | 277 | 7 | 0.03 A | 0.01 | | 90 | 1.7 | 32 | |
| | 100% | 1 | 120 | 26 | 0.22 A | 0.88 | | 98 | 1.7 | 10 | |
| F28T8 | 100% | 1 | 277 | 26 | 0.09 A | 0.88 | | 98 | 1.7 | 10 | |
| | 3% | 1 | 120 | 7 | 0.05 A | 0.01 | | 90 | 1.7 | 32 | |
| | 3% | 1 | 277 | 7 | 0.03 A | 0.01 | | 90 | 1.7 | 32 | |

Safety and performance

 UL Type 1 Outdoor
  UL Type HL
  FCC – CLASS A Non-Consumer
  UL Class P
  ANSI – C62.41
  Product is compliant with material restriction requirements of RoHS

 cUL Listed
  UL Listed
  **NEMA Premium**

UltraStart® T8 100-3% 0-10V 120-277V Programmed Start Dimming T8 Dimming Ballasts

75380 – GE232MVPS-N-V03

T8 Dimming/UltraStart® T8 100-3% 0-10V Programmed Start Dimming

2 – F32T8 120V-277V Normal Light .88 BF UltraStart® 0-10V Dimming 100-3%

- High Efficiency 100-3% 0-10V Programmed Start Dimming
- Multi-Voltage Technology handles voltage from 120 to 277V
- Parallel Lamp Operation - reliable deep dimming performance
- NEMA LL-9 Compliant - GE programmed start life and warranty ratings
- Anti-striation control for use with F32T8/WM or F28T8 Lamps
- UL Type CC rating provides protection against arcing in electrical devices
- UL 55C Ambient Rating - high temperature protection circuit
- Compatible with Class 1 or Class 2 LV 0-10VDC controllers

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Dimming |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 104°F (40°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Additional Info | Anti-striation control, Thermally protected, Universal voltage |

| Electrical characteristics | |
|--------------------------------|---|
| Supply Current Frequency | 50 Hz/Supply Current Frequency (MIN)/ 50 Hz/ 60 (MIN) |
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75380 | | | |

| Dimensions | |
|--|------------------------|
| Wiring diagram – LFL PSD2 – see example on page 12-28 | |
| Case dimensions – Ref Drawing - A – see page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 5 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| | Length (± 1 in) |
| Black | 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| White | 25 in (635 mm) |
| Yellow | 47 in (1194 mm) |
| Violet | 25 in (635 mm) |
| Gray | 25 in (635 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | | |
|------------------------------------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|------------------|-----------|----------------------------|--|
| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (=) | THD % (=) | Min. Starting Temp (°F/°C) | |
| F32T8 | 100% | 2 | 120 | 58 | 0.50 A | 0.88 | | 98 | 1.7 | 10 | | |
| | 100% | 2 | 277 | 56 | 0.21 A | 0.88 | | 98 | 1.7 | 10 | | |
| | 3% | 2 | 120 | 10 | 0.09 A | 0.03 | | 90 | 1.7 | 32 | | |
| | 3% | 2 | 277 | 11 | 0.04 A | 0.03 | | 90 | 1.7 | 32 | | |
| | 100% | 1 | 120 | 40 | 0.33 A | 1.1 | | 98 | 1.7 | 10 | | |
| | 100% | 1 | 277 | 40 | 0.15 A | 1.1 | | 98 | 1.7 | 10 | | |
| | 3% | 1 | 120 | 8 | 0.06 A | 0.04 | | 80 | 1.7 | 32 | | |
| | 3% | 1 | 277 | 8 | 0.03 A | 0.03 | | 80 | 1.7 | 32 | | |
| | 100% | 2 | 120 | 54 | 0.45 A | 0.88 | | 98 | 1.7 | 10 | | |
| | 100% | 2 | 277 | 53 | 0.19 A | 0.88 | | 98 | 1.7 | 10 | | |
| | 3% | 2 | 120 | 10 | 0.09 A | 0.03 | | 90 | 1.7 | 32 | | |
| | 3% | 2 | 277 | 11 | 0.04 A | 0.03 | | 90 | 1.7 | 32 | | |
| F32T8/WM | 100% | 1 | 120 | 38 | 0.31 A | 1.1 | | 98 | 1.7 | 10 | | |
| | 100% | 1 | 277 | 37 | 0.14 A | 1.1 | | 90 | 1.7 | 10 | | |
| | 3% | 1 | 120 | 8 | 0.06 A | 0.04 | | 80 | 1.7 | 32 | | |
| | 3% | 1 | 277 | 8 | 0.03 A | 0.04 | | 89 | 1.7 | 32 | | |
| | 100% | 2 | 120 | 50 | 0.42 A | 0.88 | | 98 | 1.7 | 10 | | |
| | 100% | 2 | 277 | 49 | 0.18 A | 0.88 | | 98 | 1.7 | 10 | | |
| | 3% | 2 | 120 | 10 | 0.09 A | 0.03 | | 90 | 1.7 | 32 | | |
| | 3% | 2 | 277 | 11 | 0.04 A | 0.03 | | 90 | 1.7 | 32 | | |
| | 100% | 1 | 120 | 36 | 0.30 A | 1.1 | | 98 | 1.7 | 10 | | |
| | 100% | 1 | 277 | 35 | 0.13 A | 1.1 | | 98 | 1.7 | 10 | | |
| | 3% | 1 | 120 | 8 | 0.06 A | 0.04 | | 80 | 1.7 | 32 | | |
| | 3% | 1 | 277 | 8 | 0.03 A | 0.04 | | 80 | 1.7 | 32 | | |
| F28T8 | 100% | 1 | 120 | 35 | 0.13 A | 1.1 | | 98 | 1.7 | 10 | | |
| | 3% | 1 | 120 | 8 | 0.06 A | 0.04 | | 80 | 1.7 | 32 | | |
| | 3% | 1 | 277 | 8 | 0.03 A | 0.04 | | 80 | 1.7 | 32 | | |

Safety and performance

 UL Type 1 Outdoor
  UL Type HL
  UL Class P
 FCC – CLASS A Non-Consumer
 ANSI – C62.41
 Product is compliant with material restriction requirements of RoHS

cUL Listed
  UL Listed
  NEMA Premium

UltraStart® T8 100-3% 0-10V 120-277V Programmed Start Dimming T8 Dimming Ballasts

75381 – GE332MVPS-N-V03

T8 Dimming/UltraStart® T8 100-3% 0-10V

Programmed Start Dimming

3 – F32T8 120V-277V Normal Light .88 BF UltraStart® 0-10V Dimming 100-3%

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Dimming |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 104°F (40°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, TCLP compliant, Thermally protected, Universal voltage |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75381 | | | |

- High Efficiency 100-3% 0-10V Programmed Start Dimming
- Multi-Voltage Technology handles voltage from 120 to 277V
- Parallel Lamp Operation - reliable deep dimming performance
- NEMA LL-9 Compliant - GE programmed start life and warranty ratings
- Anti-striation control for use with F32T8/WM or F28T8 Lamps
- UL Type CC rating provides protection against arcing in electrical devices
- UL 55C Ambient Rating - high temperature protection circuit
- Compatible with Class 1 or Class 2 LV 0-10VDC controllers

| Dimensions | |
|--|-----------------------------------|
| Wiring diagram – LFL PSD3 – see example on page 12-28 | |
| Case dimensions – Ref Drawing - A – see page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 5 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| White and Black | Length (± 1 in) 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |
| Violet | 25 in (635 mm) |
| Gray | 25 in (635 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|------------------|-----------|----------------------------|
| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (=) | THD % (=) | Min. Starting Temp (°F/°C) |
| F32T8 | 100% | 3 | 120 | 87 | 0.71 A | 0.88 | | 98 | 1.7 | 10 | |
| | 100% | 3 | 277 | 85 | 0.30 A | 0.88 | | 98 | 1.7 | 10 | |
| | 3% | 3 | 120 | 16 | 0.15 A | 0.03 | | 90 | 1.7 | 32 | |
| | 3% | 3 | 277 | 16 | 0.07 A | 0.03 | | 90 | 1.7 | 32 | |
| | 100% | 2 | 120 | 69 | 0.60 A | 0.98 | | 98 | 1.7 | 10 | |
| | 100% | 2 | 277 | 68 | 0.25 A | 0.98 | | 98 | 1.7 | 10 | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.05 | | 80 | 1.7 | 32 | |
| | 3% | 2 | 277 | 14 | 0.06 A | 0.05 | | 80 | 1.7 | 32 | |
| | 100% | 3 | 120 | 78 | 0.65 A | 0.86 | | 98 | 1.7 | 10 | |
| | 100% | 3 | 277 | 76 | 0.28 A | 0.86 | | 98 | 1.7 | 10 | |
| | 3% | 3 | 120 | 16 | 0.15 A | 0.03 | | 90 | 1.7 | 32 | |
| | 3% | 3 | 277 | 16 | 0.07 A | 0.03 | | 90 | 1.7 | 32 | |
| F32T8/WM | 100% | 2 | 120 | 66 | 0.55 A | 0.96 | | 98 | 1.7 | 10 | |
| | 100% | 2 | 277 | 65 | 0.24 A | 0.96 | | 90 | 1.7 | 10 | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.06 | | 80 | 1.7 | 32 | |
| | 3% | 2 | 277 | 14 | 0.06 A | 0.06 | | 89 | 1.7 | 32 | |
| | 100% | 3 | 120 | 74 | 0.60 A | 0.85 | | 98 | 1.7 | 10 | |
| | 100% | 3 | 277 | 73 | 0.25 A | 0.85 | | 98 | 1.7 | 10 | |
| | 3% | 3 | 120 | 16 | 0.14 A | 0.03 | | 90 | 1.7 | 32 | |
| | 3% | 3 | 277 | 16 | 0.07 A | 0.03 | | 90 | 1.7 | 32 | |
| | 100% | 2 | 120 | 58 | 0.50 A | 0.94 | | 98 | 1.7 | 10 | |
| | 100% | 2 | 277 | 58 | 0.21 A | 0.94 | | 98 | 1.7 | 10 | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.07 | | 80 | 1.7 | 32 | |
| | 3% | 2 | 277 | 14 | 0.06 A | 0.06 | | 80 | 1.7 | 32 | |
| F28T8 | 3% | 2 | 277 | 14 | 0.06 A | 0.06 | | 80 | 1.7 | 32 | |

Safety and performance

Product is compliant with material restriction requirements of RoHS  UL Type 1 Outdoor ANSI – C62.41  UL Type HL FCC – CLASS A Non-Consumer  UL Class P



UltraStart® T8 100-3% 0-10V 120-277V Programmed Start Dimming T8 Dimming Ballasts

75382 – GE432-MVPS-N-V03

T8 Dimming/UltraStart® T8 100-3% 0-10V Programmed Start Dimming

4 F32T8 120V-277V Normal Light .88 BF UltraStart® 0-10V Dimming 100-3%

- High Efficiency 100-3% 0-10V Programmed Start Dimming
- Multi-Voltage Technology handles voltage from 120 to 277V
- Parallel Lamp Operation - reliable deep dimming performance
- NEMA LL-9 Compliant - GE programmed start life and warranty ratings
- Anti-striation control for use with F32T8/WM or F28T8 Lamps
- UL Type CC rating provides protection against arcing in electrical devices
- UL 55C Ambient Rating - high temperature protection circuit
- Compatible with Class 1 or Class 2 LV 0-10VDC controllers

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Dimming |
| Starting Method | Rapid start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 104°F (40°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, Thermally protected, Universal voltage |

| Electrical characteristics | |
|--------------------------------|--------------|
| Supply Current Frequency (MIN) | 50 Hz/ 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75382 | | | |

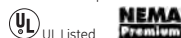
| Dimensions | |
|--|-----------------------------------|
| Wiring diagram – LFL PSD4 – see example on page 12-28 | |
| Case dimensions – Ref Drawing - A – see page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 5 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| White and Black | Length (± 1 in) 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Blue/White | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |
| Violet | 25 in (635 mm) |
| Gray | 25 in (635 mm) |

Specifications by lamp and wattage

| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (=) | THD % (=) | Min. Starting Temp (°F/°C) |
|----------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|------------------|-----------|----------------------------|
| F32T8 | 100% | 4 | 120 | 114 | 0.96 A | 0.88 | | 99 | 1.7 | 10 | |
| | 100% | 4 | 277 | 111 | 0.41 A | 0.88 | | 98 | 1.7 | 10 | |
| | 3% | 4 | 120 | 22 | 0.18 A | 0.03 | | 99 | 1.7 | 15 | |
| | 3% | 4 | 277 | 22 | 0.09 A | 0.03 | | 90 | 1.7 | 30 | |
| | 100% | 3 | 120 | 94 | 0.79 A | 0.90 | | 99 | 1.7 | 10 | |
| | 100% | 3 | 277 | 92 | 0.34 A | 0.90 | | 99 | 1.7 | 10 | |
| | 3% | 3 | 120 | 19 | 0.16 A | 0.03 | | 98 | 1.7 | 15 | |
| | 3% | 3 | 277 | 18 | 0.08 A | 0.03 | | 90 | 1.7 | 30 | |
| | 100% | 4 | 120 | 106 | 0.90 A | 0.86 | | 99 | 1.7 | 10 | |
| | 100% | 4 | 277 | 104 | 0.38 A | 0.86 | | 98 | 1.7 | 10 | |
| | 3% | 4 | 120 | 22 | 0.18 A | 0.03 | | 99 | 1.7 | 15 | |
| | 3% | 4 | 277 | 22 | 0.09 A | 0.03 | | 90 | 1.7 | 30 | |
| F32T8/WM | 100% | 3 | 120 | 87 | 0.73 A | 0.90 | | 99 | 1.7 | 10 | |
| | 100% | 3 | 277 | 85 | 0.32 A | 0.90 | | 99 | 1.7 | 10 | |
| | 3% | 3 | 120 | 19 | 0.16 A | 0.03 | | 98 | 1.7 | 15 | |
| | 3% | 3 | 277 | 19 | 0.08 A | 0.03 | | 90 | 1.7 | 30 | |
| | 100% | 4 | 120 | 98 | 0.82 A | 0.85 | | 99 | 1.7 | 10 | |
| | 100% | 4 | 277 | 95 | 0.36 A | 0.85 | | 98 | 1.7 | 10 | |
| | 3% | 4 | 120 | 22 | 0.18 A | 0.03 | | 99 | 1.7 | 15 | |
| | 3% | 4 | 277 | 22 | 0.09 A | 0.03 | | 90 | 1.7 | 30 | |
| | 100% | 3 | 120 | 79 | 0.70 A | 0.90 | | 99 | 1.7 | 10 | |
| | 100% | 3 | 277 | 78 | 0.30 A | 0.90 | | 99 | 1.7 | 10 | |
| | 3% | 3 | 120 | 19 | 0.16 A | 0.03 | | 98 | 1.7 | 15 | |
| | 3% | 3 | 277 | 19 | 0.08 A | 0.03 | | 90 | 1.7 | 30 | |

Safety and performance

Product is compliant with material restriction requirements of RoHS  UL Type 1 Outdoor ANSI – C62.41  UL Type HL FCC – CLASS A Non-Consumer  UL Class P



UltraStart® T8 100-3% 0-10V 120-277V Programmed Start Dimming T8 Dimming Ballasts

75383 – GE232-MVPS-H-V03

T8 Dimming/UltraStart® T8 100-3% 0-10V

Programmed Start Dimming

2 or 1 – F32T8 120V-277V High Light 1.18 BF UltraStart® 0-10V Dimming 100-3%

- High Efficiency 100-3% 0-10V Programmed Start Dimming
- Multi-Voltage Technology handles voltage from 120 to 277V
- Parallel Lamp Operation - reliable deep dimming performance
- NEMA LL-9 Compliant - GE programmed start life and warranty ratings
- Anti-striation control for use with F32T8/WM or F28T8 Lamps
- UL Type CC rating provides protection against arcing in electrical devices
- UL 55C Ambient Rating - high temperature protection circuit
- Compatible with Class 1 or Class 2 LV 0-10VDC controllers

| General characteristics | |
|-------------------------------|-----------------------------------|
| Ballast Type | Electronic - Dimming |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Thermally protected |





| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |



| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75383 | | | |

| Dimensions | |
|--|------------------------|
| Wiring diagram – LFL PSD2 – see example on page 12-28 | |
| Case dimensions – Ref Drawing – A – see page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 5 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in) |
| Blue and Red | 33 in (838 mm) |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Yellow | 47 in (1194 mm) |
| Blue | 33 in (838 mm) |
| Violet | 25 in (635 mm) |
| Gray | 25 in (635 mm) |

Specifications by lamp and wattage

| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (=) | THD % (=) | Min. Starting Temp (°F/°C) |
|----------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|------------------|-----------|----------------------------|
| F32T8 | 100% | 2 | 120 | 76 | 0.64 A | 1.18 | | 98 | 1.7 | 10 | |
| | 100% | 2 | 277 | 74 | 0.27 A | 1.18 | | 98 | 1.7 | 10 | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.03 | | 90 | 1.7 | 32 | |
| | 3% | 2 | 277 | 12 | 0.05 A | 0.03 | | 90 | 1.7 | 32 | |
| | 100% | 1 | 120 | 46 | 0.40 A | 1.34 | | 98 | 1.7 | 10 | |
| | 100% | 1 | 277 | 46 | 0.17 A | 1.33 | | 98 | 1.7 | 10 | |
| | 3% | 1 | 120 | 8 | 0.07 A | 0.07 | | 80 | 1.7 | 32 | |
| | 3% | 1 | 277 | 8 | 0.04 A | 0.07 | | 80 | 1.7 | 32 | |
| | 100% | 2 | 120 | 72 | 0.60 A | 1.16 | | 98 | 1.7 | 10 | |
| | 100% | 2 | 277 | 70 | 0.25 A | 1.16 | | 98 | 1.7 | 10 | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.03 | | 90 | 1.7 | 32 | |
| | 3% | 2 | 277 | 12 | 0.05 A | 0.03 | | 90 | 1.7 | 32 | |
| F32T8/WM | 100% | 1 | 120 | 44 | 0.36 A | 1.33 | | 98 | 1.7 | 10 | |
| | 100% | 1 | 277 | 44 | 0.16 A | 1.33 | | 90 | 1.7 | 10 | |
| | 3% | 1 | 120 | 8 | 0.07 A | 0.08 | | 80 | 1.7 | 32 | |
| | 3% | 1 | 277 | 8 | 0.04 A | 0.08 | | 89 | 1.7 | 32 | |
| | 100% | 2 | 120 | 66 | 0.55 A | 1.15 | | 98 | 1.7 | 10 | |
| | 100% | 2 | 277 | 65 | 0.24 A | 1.15 | | 98 | 1.7 | 10 | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.03 | | 90 | 1.7 | 32 | |
| | 3% | 2 | 277 | 12 | 0.05 A | 0.03 | | 90 | 1.7 | 32 | |
| | 100% | 1 | 120 | 41 | 0.34 A | 1.33 | | 98 | 1.7 | 10 | |
| | 100% | 1 | 277 | 41 | 0.15 A | 1.33 | | 98 | 1.7 | 10 | |
| | 3% | 1 | 120 | 8 | 0.07 A | 0.08 | | 80 | 1.7 | 32 | |
| | 3% | 1 | 277 | 8 | 0.04 A | 0.08 | | 80 | 1.7 | 32 | |
| F28T8 | 3% | 1 | 120 | 8 | 0.04 A | 0.08 | | 80 | 1.7 | 32 | |

Safety and performance  UL Type 1 Outdoor  UL Type HL Product is compliant with material restriction requirements of RoHS FCC – CLASS A Non-Consumer ANSI – C62.41  UL Class P 

 UL Listed  UL Listed High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

UltraStart® T8 100-3% 0-10V 120-277V Programmed Start Dimming T8 Dimming Ballasts

75384 – GE332MVPS-H-V03

T8 Dimming/UltraStart® T8 100-3% 0-10V Programmed Start Dimming

3 – F32T8 120V-277V High Light 1.18 BF UltraStart® 0-10V Dimming 100-3%

- High Efficiency 100-3% 0-10V Programmed Start Dimming
- Multi-Voltage Technology handles voltage from 120 to 277V
- Parallel Lamp Operation - reliable deep dimming performance
- NEMA LL-9 Compliant - GE programmed start life and warranty ratings
- Anti-striation control for use with F32T8/WM or F28T8 Lamps
- UL Type CC rating provides protection against arcing in electrical devices
- UL 55C Ambient Rating - high temperature protection circuit
- Compatible with Class 1 or Class 2 LV 0-10VDC controllers

| General characteristics | |
|-------------------------------|-----------------------------------|
| Ballast Type | Electronic - Dimming |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A120-24 decibels |
| Additional Info | Auto-restart, Thermally protected |





| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |


| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75384 | | | |

| Dimensions | |
|--|-----------------------------------|
| Wiring diagram – LFL PSD3 – see example on page 12-28 | |
| Case dimensions – Ref Drawing - A – see page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 5 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| White and Black | Length (± 1 in) 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |
| Violet | 25 in (635 mm) |
| Gray | 25 in (635 mm) |

Specifications by lamp and wattage

| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (=) | THD % (=) | Min. Starting Temp (°F/°C) |
|----------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|------------------|-----------|----------------------------|
| F32T8 | 100% | 3 | 120 | 116 | 0.97 A | 1.18 | | 98 | 1.7 | 10 | |
| | 100% | 3 | 277 | 113 | 0.41 A | 1.18 | | 98 | 1.7 | 10 | |
| | 3% | 3 | 120 | 17 | 0.14 A | 0.03 | | 90 | 1.7 | 32 | |
| | 3% | 3 | 277 | 17 | 0.07 A | 0.03 | | 90 | 1.7 | 32 | |
| | 100% | 2 | 120 | 87 | 0.73 A | 1.26 | | 98 | 1.7 | 10 | |
| | 100% | 2 | 277 | 86 | 0.31 A | 1.26 | | 98 | 1.7 | 10 | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.05 | | 80 | 1.7 | 32 | |
| | 3% | 2 | 277 | 14 | 0.06 A | 0.05 | | 80 | 1.7 | 32 | |
| | 100% | 3 | 120 | 103 | 0.86 A | 1.16 | | 98 | 1.7 | 10 | |
| | 100% | 3 | 277 | 104 | 0.38 A | 1.16 | | 98 | 1.7 | 10 | |
| | 3% | 3 | 120 | 17 | 0.14 A | 0.03 | | 90 | 1.7 | 32 | |
| | 3% | 3 | 277 | 17 | 0.07 A | 0.03 | | 90 | 1.7 | 32 | |
| F32T8/WM | 100% | 2 | 120 | 81 | 0.67 A | 1.26 | | 98 | 1.7 | 10 | |
| | 100% | 2 | 277 | 80 | 0.30 A | 1.26 | | 90 | 1.7 | 10 | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.05 | | 80 | 1.7 | 32 | |
| | 3% | 2 | 277 | 14 | 0.06 A | 0.05 | | 89 | 1.7 | 32 | |
| | 100% | 3 | 120 | 88 | 0.73 A | 1.15 | | 98 | 1.7 | 10 | |
| | 100% | 3 | 277 | 96 | 0.35 A | 1.15 | | 98 | 1.7 | 10 | |
| | 3% | 3 | 120 | 17 | 0.14 A | 0.03 | | 90 | 1.7 | 32 | |
| | 3% | 3 | 277 | 17 | 0.07 A | 0.03 | | 90 | 1.7 | 32 | |
| | 100% | 2 | 120 | 73 | 0.62 A | 1.25 | | 98 | 1.7 | 10 | |
| | 100% | 2 | 277 | 71 | 0.26 A | 1.25 | | 98 | 1.7 | 10 | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.06 | | 80 | 1.7 | 32 | |
| | 3% | 2 | 277 | 14 | 0.06 A | 0.06 | | 80 | 1.7 | 32 | |
| F28T8 | 3% | 2 | 277 | 14 | 0.06 A | 0.06 | | 80 | 1.7 | 32 | |

Safety and performance  UL Type 1 Outdoor  UL Type HL Product is compliant with material restriction requirements of RoHS FCC – CLASS A Non-Consumer ANSI – C62.41  UL Class P cUL Listed 

 UL Listed High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

UltraStart® T8 100-3% 0-10V 120-277V Programmed Start Dimming T8 Dimming Ballasts

75385 – GE432-MVPS-H-V03

T8 Dimming/UltraStart® T8 100-3% 0-10V Programmed Start Dimming

4 – F32T8 120V-277V High Light 1.18 BF UltraStart® 0-10V Dimming 100-3%

| General characteristics | |
|-------------------------------|-----------------------------------|
| Ballast Type | Electronic – Dimming |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Thermally protected |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75385 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts |
|----------|------------|------------|
| F32T8 | 4 | 120 |
| | 4 | 277 |
| | 3 | 120 |
| F32T8/WM | 3 | 277 |
| | 4 | 120 |
| | 4 | 277 |
| F28T8 | 3 | 120 |
| | 3 | 277 |
| | 4 | 120 |
| F25T8 | 4 | 277 |
| | 3 | 120 |
| | 4 | 277 |
| F17T8 | 3 | 120 |
| | 3 | 277 |

- High Efficiency 100-3% 0-10V Programmed Start Dimming
- Multi-Voltage Technology handles voltage from 120 to 277V
- Parallel Lamp Operation - reliable deep dimming performance
- NEMA LL-9 Compliant - GE programmed start life and warranty ratings
- Anti-striation control for use with F32T8/WM or F28T8 Lamps
- UL Type CC rating provides protection against arcing in electrical devices
- UL 55C Ambient Rating - high temperature protection circuit
- Compatible with Class 1 or Class 2 LV 0-10VDC controllers

| Dimensions | |
|---|-------------------|
| Wiring diagram – LFL PSD4 see example on page 12-28 | |
| Case dimensions – Ref Drawing -A – see page 12-29 | |
| Length (L) | 11.75 in (299 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Width (X or F) | 1.6 in (40 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 2.4 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 5 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in) |
| White and Black | 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Blue/White | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |
| Violet | 25 in (635 mm) |
| Gray | 25 in (635 mm) |

Safety and performance

Product is compliant with material restriction requirements of RoHS ANSI – C62.41  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer  UL Class P
cUL Listed  UL Listed High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty. 

UltraStart® T8 100-3% 0-10V 120-277V Programmed Start Dimming T8 Dimming Ballasts

62044 – GE432MVPS-N-V03W

T8 Dimming/UltraStart® T8 100-3% 0-10V Programmed Start Dimming

3 – F32T8 120V-277V Normal Light .88 BF UltraStart® 0-10V Dimming 100-3%

- High Efficiency 100-3% 0-10V Programmed Start Dimming
- Multi-Voltage Technology handles voltage from 120 to 277V
- Parallel Lamp Operation - reliable deep dimming performance
- NEMA LL-9 Compliant - GE programmed start life and warranty ratings
- Anti-striation control for use with F32T8/WM or F28T8 Lamps
- UL Type CC rating provides protection against arcing in electrical devices
- UL 55C Ambient Rating - high temperature protection circuit
- Compatible with Class 1 or Class 2 LV0-10VDC controllers

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic - Dimming |
| Starting Method | Rapid start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 104°F (40°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Additional Info | Anti-striation control, No PCBs, Thermally protected, Universal voltage |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 62044 | | | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL PSD3 – see example on page 12-28 | |
| Case dimensions – Ref Drawing - A - see page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 5 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Length (± 1 in) | |
| White and Black | 25 in (635 mm) |
| Blue and Red | 19 in (483 mm) |
| Red/White | 19 in (483 mm) |
| Yellow | 100 in (2540 mm) |
| Violet | 25 in (635 mm) |
| Gray | 25 in (635 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | | |
|------------------------------------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|------------------|-----------|----------------------------|--|
| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (=) | THD % (=) | Min. Starting Temp (°F/°C) | |
| F32T8 | 100% | 4 | 120 | 87 | 0.71 A | 0.88 | | 98 | 1.7 | 10 | | |
| | 100% | 4 | 277 | 85 | 0.30 A | 0.88 | | 98 | 1.7 | 10 | | |
| | 3% | 3 | 120 | 16 | 0.15 A | 0.03 | | 90 | 1.7 | 32 | | |
| | 3% | 3 | 277 | 16 | 0.07 A | 0.03 | | 90 | 1.7 | 32 | | |
| | 100% | 2 | 120 | 69 | 0.60 A | 0.98 | | 98 | 1.7 | 10 | | |
| | 100% | 2 | 277 | 68 | 0.25 A | 0.98 | | 98 | 1.7 | 10 | | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.05 | | 80 | 1.7 | 32 | | |
| | 3% | 2 | 277 | 14 | 0.06 A | 0.05 | | 80 | 1.7 | 32 | | |
| | 100% | 3 | 120 | 78 | 0.65 A | 0.86 | | 98 | 1.7 | 10 | | |
| | 100% | 3 | 277 | 76 | 0.28 A | 0.86 | | 98 | 1.7 | 10 | | |
| | 3% | 3 | 120 | 16 | 0.15 A | 0.03 | | 90 | 1.7 | 32 | | |
| | 3% | 3 | 277 | 16 | 0.07 A | 0.03 | | 90 | 1.7 | 32 | | |
| F32T8/WM | 100% | 2 | 120 | 66 | 0.55 A | 0.96 | | 98 | 1.7 | 10 | | |
| | 100% | 2 | 277 | 65 | 0.24 A | 0.96 | | 90 | 1.7 | 10 | | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.06 | | 80 | 1.7 | 32 | | |
| | 3% | 2 | 277 | 14 | 0.06 A | 0.06 | | 89 | 1.7 | 32 | | |
| | 100% | 3 | 120 | 74 | 0.60 A | 0.85 | | 98 | 1.7 | 10 | | |
| | 100% | 3 | 277 | 73 | 0.25 A | 0.85 | | 98 | 1.7 | 10 | | |
| | 3% | 3 | 120 | 16 | 0.14 A | 0.03 | | 90 | 1.7 | 32 | | |
| | 3% | 3 | 277 | 16 | 0.07 A | 0.03 | | 90 | 1.7 | 32 | | |
| | 100% | 2 | 120 | 58 | 0.50 A | 0.94 | | 98 | 1.7 | 10 | | |
| | 100% | 2 | 277 | 58 | 0.21 A | 0.94 | | 98 | 1.7 | 10 | | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.07 | | 80 | 1.7 | 32 | | |
| | 3% | 2 | 277 | 14 | 0.06 A | 0.06 | | 80 | 1.7 | 32 | | |
| F28T8 | 3% | 2 | 277 | 14 | 0.06 A | 0.06 | | 80 | 1.7 | 32 | | |

Safety and performance

Product is compliant with material restriction requirements of RoHS  UL Type 1 Outdoor ANSI - C62.41  UL Type HL FCC - CLASS A Non-Consumer



UltraStart® T5 120–277V Step Dimming Program Start Ballast

T5 Dimming Ballasts

90903 – GE228MVPS-N-S35

T5 Dimming/UltraStart® T5 120-277V

Step Dimming Program Start

2 or 1 F28T5HE lamps

- Line Voltage: Multi-Voltage 120 to 277 VAC, +/-10%, 50/60Hz
- Bi-Level Switching 100 to 35%
- Anti-Striation Control for better light quality, with no striations
- UL 55C Ambient Rating – High Temperature Protection Circuit

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Dimming |
| Starting Method | Program start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Additional Info | Anti-striation control, No PCBs, Thermally protected, Universal voltage |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 90903 | | | |

| Dimensions | |
|---|------------------|
| Wiring diagram – LFL-2N/L S30 – see example on page 12-27 | |
| Case dimensions – Ref Drawing -A – see page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30.5 mm) |
| Mounting dimensions | |
| Mount Length (M) | 9.0 in (229 mm) |
| Mount Width (X or F) | 1.0 in (27 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.73 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F24T5H0) | 8 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in) |
| White | 20 in (508 mm) |
| Black | 20 in (508 mm) |
| Red | 26 in (660 mm) |
| Blue | 26 in (660 mm) |
| Yellow | 37 in (940 mm) |

Specifications by lamp and wattage

| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (=) | THD % (=) | Min. Starting Temp (°F/°C) | | |
|---------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|------------------|-----------|----------------------------|------|------|
| F28T5WM | 2 | 2 | 120 | 60 | 0.53 A | 0.95 | 1.58 | 99 | 1.7 | 10 | 32/0 | | |
| | | 2 | 277 | 58 | 0.22 A | 0.95 | 1.64 | 97 | 1.7 | 10 | 32/0 | | |
| | 1 | 2 | 120 | 30 | 0.25 A | 0.35 | 1.17 | 99 | 1.7 | 10 | 32/0 | | |
| | | 2 | 277 | 30 | 0.11 A | 0.35 | 1.17 | 93 | 1.7 | 20 | 32/0 | | |
| | F28T5HL | 2 | 1 | 120 | 30 | 0.26 A | 0.95 | 3.17 | 99 | 1.7 | 10 | 32/0 | |
| | | | 1 | 277 | 29 | 0.12 A | 0.95 | 3.28 | 92 | 1.7 | 20 | 32/0 | |
| | | 1 | 1 | 120 | 14 | 0.12 A | 0.35 | 2.50 | 99 | 1.7 | 20 | 32/0 | |
| | | | 1 | 277 | 15 | 0.06 A | 0.35 | 2.33 | 82 | 1.7 | 25 | 32/0 | |
| | | F28T5HE | 2 | 2 | 120 | 63 | 0.55 A | 0.95 | 1.50 | 99 | 1.7 | 10 | 32/0 |
| | | | | 2 | 277 | 62 | 0.24 A | 0.95 | 1.53 | 97 | 1.7 | 10 | 32/0 |
| | | | 2 | 2 | 120 | 31 | 0.26 A | 0.35 | 1.13 | 99 | 1.7 | 10 | 32/0 |
| | | | | 2 | 277 | 32 | 0.12 A | 0.35 | 1.09 | 94 | 1.7 | 20 | 32/0 |
| F21T5HE | | | 1 | 1 | 120 | 31 | 0.27 A | 0.95 | 3.06 | 99 | 1.7 | 10 | 32/0 |
| | | | | 1 | 277 | 31 | 0.12 A | 0.95 | 3.06 | 92 | 1.7 | 20 | 32/0 |
| | | | 1 | 1 | 120 | 15 | 0.12 A | 0.35 | 2.33 | 99 | 1.7 | 20 | 32/0 |
| | | | | 1 | 277 | 15 | 0.07 A | 0.35 | 2.33 | 83 | 1.7 | 25 | 32/0 |
| | F21T5HE | | 2 | 2 | 120 | 64 | 0.55 A | 0.95 | 1.48 | 99 | 1.7 | 10 | 32/0 |
| | | | | 2 | 277 | 62 | 0.24 A | 0.95 | 1.53 | 97 | 1.7 | 10 | 32/0 |
| | | | 2 | 2 | 120 | 34 | 0.28 A | 0.35 | 1.03 | 99 | 1.7 | 10 | 32/0 |
| | | | | 2 | 277 | 33 | 0.13 A | 0.35 | 1.06 | 94 | 1.7 | 20 | 32/0 |
| | | F21T5HE | 1 | 1 | 120 | 31 | 0.27 A | 0.95 | 3.06 | 99 | 1.7 | 10 | 32/0 |
| | | | | 1 | 277 | 31 | 0.12 A | 0.95 | 3.06 | 92 | 1.7 | 20 | 32/0 |
| | | | 1 | 1 | 120 | 15 | 0.13 A | 0.35 | 2.33 | 98 | 1.7 | 20 | 32/0 |
| | | | | 1 | 277 | 16 | 0.07 A | 0.35 | 2.19 | 83 | 1.7 | 25 | 32/0 |
| F21T5HE | | | 2 | 2 | 120 | 48 | 0.42 A | 0.95 | 1.98 | 99 | 1.7 | 10 | 32/0 |
| | | | | 2 | 277 | 47 | 0.18 A | 0.95 | 2.02 | 96 | 1.7 | 10 | 32/0 |
| | | | 2 | 2 | 120 | 23 | 0.22 A | 0.35 | 1.52 | 99 | 1.7 | 20 | 32/0 |
| | | | | 2 | 277 | 24 | 0.10 A | 0.35 | 1.46 | 91 | 1.7 | 10 | 32/0 |
| | F21T5HE | | 1 | 1 | 120 | 24 | 0.21 A | 0.95 | 3.96 | 99 | 1.7 | 10 | 32/0 |
| | | | | 1 | 277 | 24 | 0.10 A | 0.95 | 3.96 | 89 | 1.7 | 20 | 32/0 |
| | | | 1 | 1 | 120 | 12 | 0.10 A | 0.35 | 2.92 | 98 | 1.7 | 20 | 32/0 |
| | | | | 1 | 277 | 12 | 0.06 A | 0.35 | 2.92 | 77 | 1.7 | 30 | 32/0 |

Safety and performance

Product is compliant with material restriction requirements of RoHS  UL Type 1 Outdoor  UL Type HL ANSI – C62.41 FCC – CLASS A Non-Consumer
 UL Class P  UL Listed  UL Class CC ANSI – C82.11 Cons 2002 No PCB's

UltraStart® T5 120-277V Step Dimming Program Start Ballast

T5 Dimming Ballasts

90904 – GE224MVPS-N-S35

T5 Dimming/UltraStart® T5 120-277V

Step Dimming Program Start

2 or 1 F24T5HO lamps

- Line Voltage: Multi-Voltage 120 to 277 VAC, +/-10%, 50/60Hz
- Series Lamp Operation
- Bi-Level Switching 100 to 35%
- Programmed Rapid Start
- Active Power Factor Correction

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Dimming |
| Starting Method | Program start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 131°F (55°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, No PCBs, Thermally protected, Universal voltage |






| Electrical characteristics | |
|--------------------------------|--------------|
| Supply Current Frequency (MIN) | 50 Hz/ 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 90904 | | | |

| Dimensions | |
|---|------------------|
| Wiring diagram – LFL-2N/L S30 – see example on page 12-27 | |
| Case dimensions – Ref Drawing – A – see page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30.5 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.45 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F24T5HO) | 8 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Length (± 1 in) | |
| White | 18 in (457 mm) |
| Black | 18 in (457 mm) |
| Red | 18 in (457 mm) |
| Blue | 18 in (457 mm) |
| Yellow | 26 in (660 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | | | | | |
|------------------------------------|-------------|------------|--------------|------|-------------------|--------|-----------------------|-------------------------|------|---------------------|------|-------------------|-----------|------|---------------------------|
| Lamp | Light Level | # of Lamps | System Watts | | Nom. Line Current | | System Ballast Factor | Ballast Efficacy Factor | | Power Factor % (<=) | | Crest Factor (<=) | THD% (<=) | | Min Starting Temp (°F/°C) |
| | | | 120V | 277V | 120V | 277V | | 120V | 277V | 120V | 277V | | 120V | 277V | |
| F24T5/HO | 100% | 2 | 51 | 50 | 0.44 A | 0.19 A | 1.00 | 1.97 | 2.02 | 99 | 97 | 1.7 | 10 | 10 | 0/-18 |
| | 35% | 2 | 23 | 23 | 0.19 A | 0.09 A | 0.35 | 1.54 | 1.52 | 99 | 90 | 1.7 | 10 | 20 | 0/-18 |
| | 100% | 1 | 27 | 27 | 0.24 A | 0.11 A | 1.00 | 3.73 | 3.73 | 99 | 91 | 1.7 | 10 | 20 | 32/0 |
| | 35% | 1 | 12 | 12 | 0.10 A | 0.06 A | 0.35 | 2.97 | 2.82 | 98 | 78 | 1.7 | 20 | 30 | 32/0 |
| FT24W/2G11 | 100% | 2 | 51 | 50 | 0.44 A | 0.19 A | 1.00 | 1.96 | 2.00 | 99 | 97 | 1.7 | 10 | 10 | 32/0 |
| | 35% | 2 | 24 | 24 | 0.20 A | 0.10 A | 0.35 | 1.44 | 1.43 | 99 | 91 | 1.7 | 10 | 20 | 32/0 |
| | 100% | 1 | 27 | 27 | 0.24 A | 0.11 A | 1.00 | 3.71 | 3.72 | 99 | 91 | 1.7 | 10 | 20 | 32/0 |
| | 35% | 1 | 13 | 13 | 0.11 A | 0.06 A | 0.35 | 2.77 | 2.65 | 98 | 80 | 1.7 | 20 | 30 | 32/0 |
| FT36W/2G11 | 100% | 1 | 35 | 35 | 0.31 A | 0.14 A | 1.00 | 2.85 | 2.88 | 99 | 94 | 1.7 | 10 | 20 | 32/0 |
| | 35% | 1 | 16 | 16 | 0.13 A | 0.07 A | 0.35 | 2.24 | 2.18 | 99 | 84 | 1.7 | 20 | 25 | 32/0 |
| | 100% | 1 | 40 | 39 | 0.35 A | 0.15 A | 1.00 | 2.49 | 2.54 | 99 | 95 | 1.7 | 10 | 20 | 32/0 |
| F39T5/HO | 35% | 1 | 17 | 17 | 0.14 A | 0.07 A | 0.35 | 2.08 | 2.05 | 99 | 85 | 1.7 | 10 | 25 | 32/0 |

Safety and performance

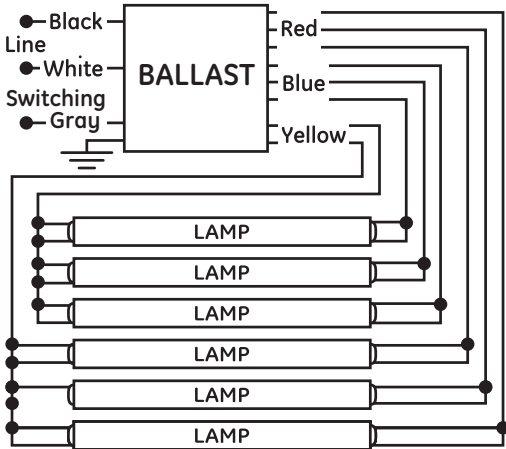
Product is compliant with material restriction requirements of RoHS  UL Type 1 Outdoor  UL Type HL ANSI – C62.41 FCC – CLASS A Non-Consumer  UL Class P  UL Listed  UL Class CC ANSI – C82.11 Cons 2002

For N-1 operation individually insulate each unused blue lamp lead for 600 Vrms. Install and Ground Per National Electric Code

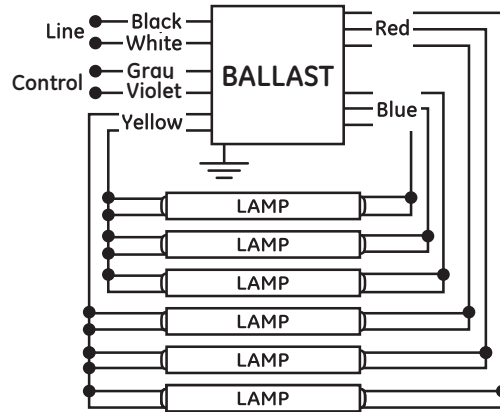
Wiring Diagrams

T8 Dimming Ballasts

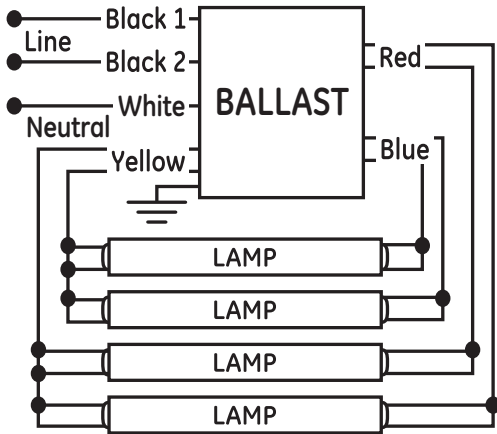
LFL -6H S60



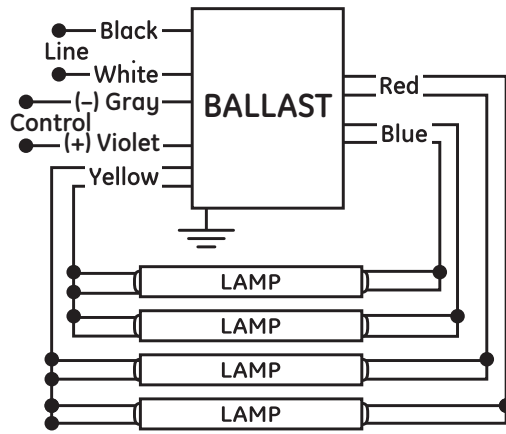
LFL -6H V60



LFL -4H S60



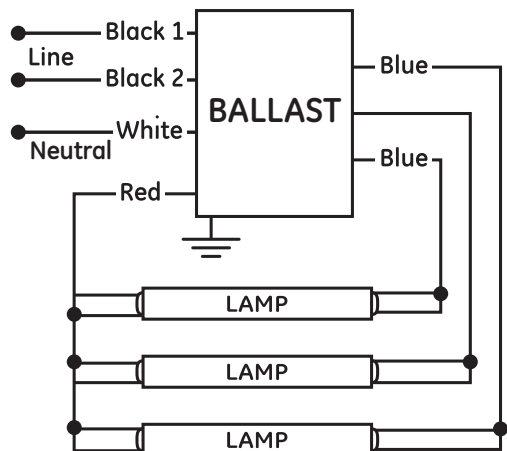
LFL -4H V60



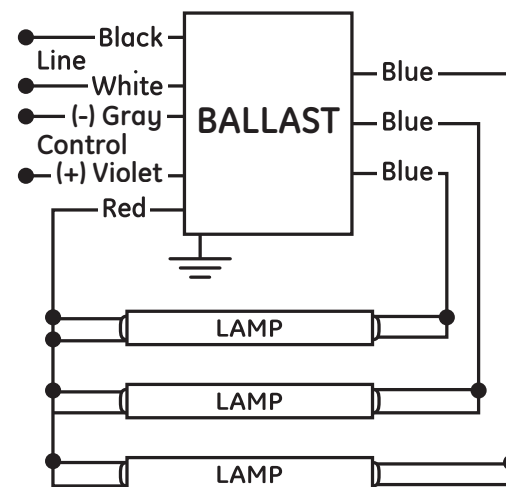
Wiring Diagrams

T8 Dimming Ballasts

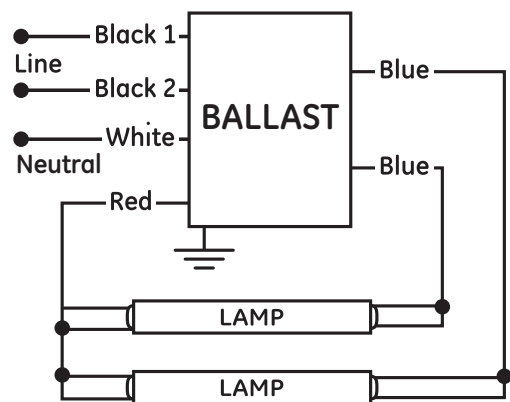
LFL -3H S60



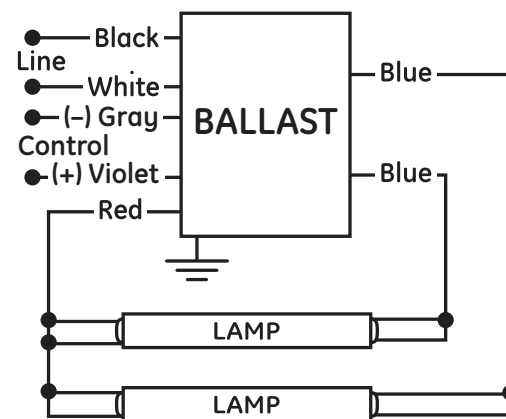
LFL -3H V60



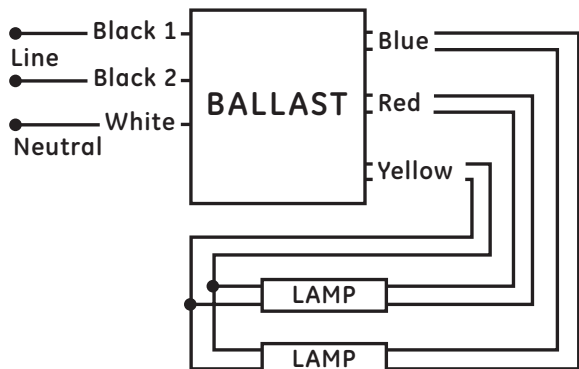
LFL -2H S60



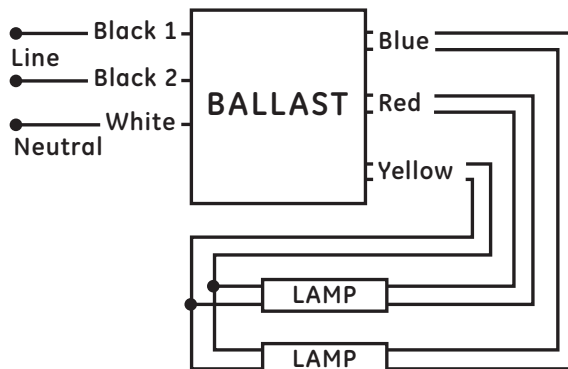
LFL -2H V60



LFL - 1N S30



LFL - 2N/L S30



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

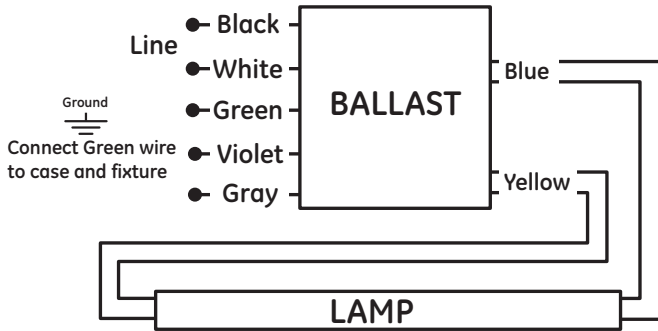
Compact Fluorescent

HID Electronic & Electromagnetic

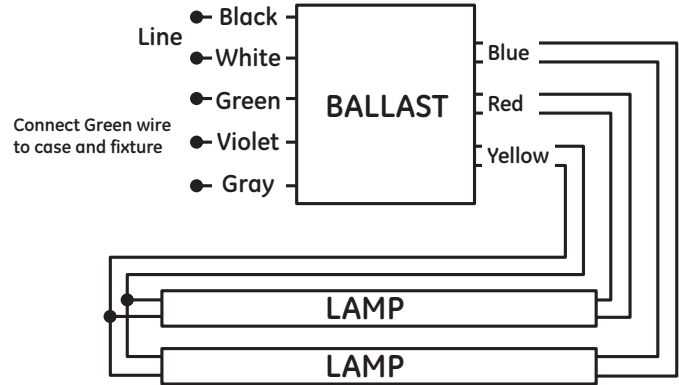
Wiring Diagrams

T8 Dimming Ballasts

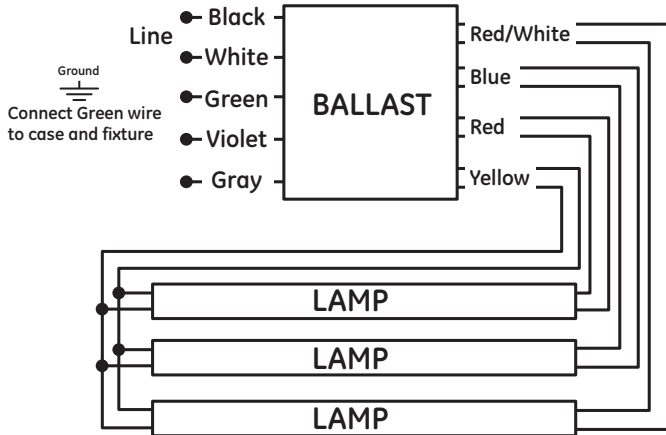
LFL PSD1



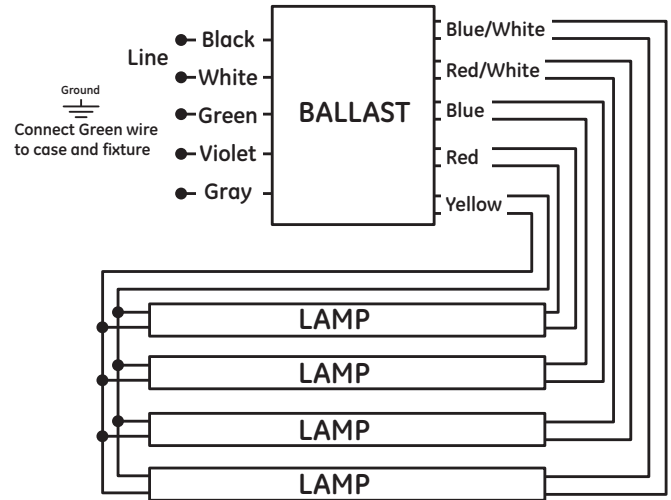
LFL PSD2



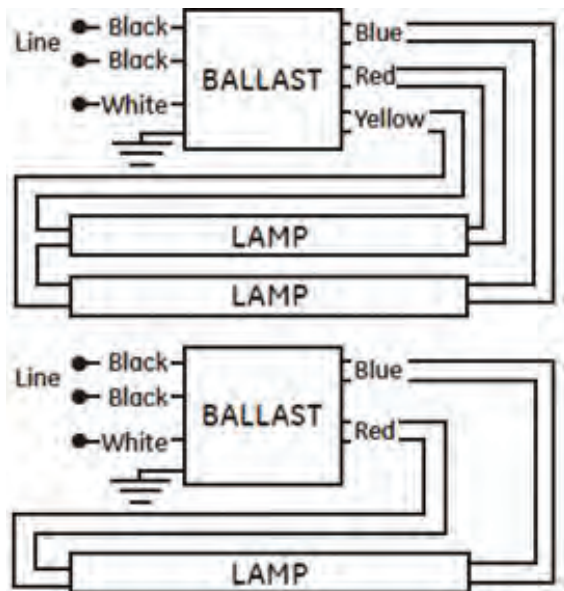
LFL PSD3



LFL PSD4



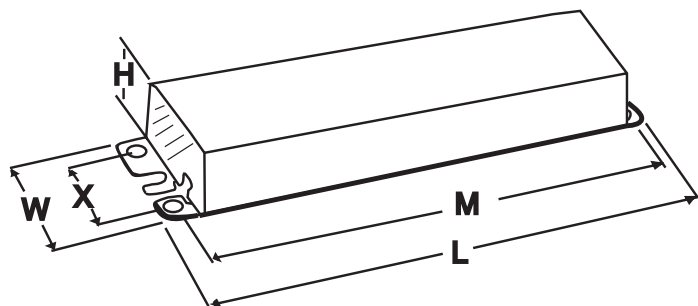
LFL PSD5



Case Dimensions

T8 Dimming Ballasts

-A



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

Table of Contents

T5 Electronic Programmed Start Ballasts

Understanding T5 Electronic Programmed Start Ballasts 13-2

T5 High Efficiency – Rapid Start 120V Residential Ballast
 For F13T5, F14T5, F21T5 and F28T5 13-3

T5 High Efficiency – Programmed Start
 For F14 (2 ft), F21 (3 ft), F28 (4 ft),
 F35 (5 ft) HE T5 Lamps* 13-4

T5 High Output – Programmed Start
 For T5 HO Lamps* 13-5

T5 Watt-Miser Electronic Program / Rapid Start Ballast.....13-11

Step Down Transformers13-15

Wiring Diagrams.....13-17

Case Dimensions13-19

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic



Understanding T5 Electronic Programmed Start Ballasts

UltraStart® T5 programmed start ballasts for T5 fluorescent lamps.

GE has developed a line of T5 ballasts that incorporate the benefits of programmed start ballasts with the energy savings, fast starting and parallel lamp operation of instant start ballasts. GE's UltraStart® T5 ballasts use low energy loss, high efficiency components along with continuous cathode cutout (CCC) technology—resulting in 8 fewer watts than standard 4-lamp 54 watt T5 ballasts. GE's UltraStart® T5 ballasts offer a 44% improvement over standard T5 ballasts and a new industry threshold for high efficiency ballasts.

The GE UltraStart® Watt-Miser® T5 Lamp and Ballast System Advantage

- 18 watts lower than standard 4-lamp, 54 watt T5 systems with the same light output
- Operates lamps in parallel (which means if one lamp fails, the other lamps remain on)
 - significantly reduces lamp maintenance costs
- Fast starting programmed start ballast < 700 milliseconds compared to standard T5 at > 1.1 to 1.5 seconds

GE UltraStart® T5 programmed start ballasts use a control circuit to apply very precise cathode heat to ensure lamp cathodes have reached optimum temperature during lamp starting. Precise starting reduces the amount of cathode degradation associated with each start and increases lamp life significantly. After starting the lamps, continuous cathode cutout technology (CCC) is applied—which eliminates wasted power to the lamps, resulting in high efficiencies. GE UltraStart® systems also have the advantage of operating lamps in parallel. Parallel (versus series) lamp operation ballasts typically reduce spot relamping costs by 50% or extend group relamping by 15% or more due to average lamp mortality early failures.

T5 Lamps

GE T5 lamps can be electrically characterized into two groups:

High Efficiency (HE) Lamps (F14T5, F21T5, F28T5, F35T5 – standard, high-lumen and Watt-Miser®)

These lamps are high efficiency (HE), delivering around 100 lumens per watt and, while operating at the same lamp arc current, can be operated on the same ballast if the ballast system power and starting voltage are appropriate for the lamp load.

High Output (HO) Lamps (F24T5, F39T5, F54T5, F49T5, F80T5 – standard and Watt-Miser®)

These lamps are driven for high light output and are slightly less efficient (LPW) than HE lamps. They have unique lamp arc currents and starting voltages by wattage that require a specific ballast for each HO lamp wattage.



T5 High Efficiency – Rapid Start 120V Residential Ballast

T5 Electronic Programmed Start For F13T5, F14T5, F21T5 and F28T5

78518 - GE21T5-120-RES

T5 High Efficiency - Rapid Start

Electronic ballast for (1) F21T5; or (1) F14T5; or (1) F13T5




- Line Voltage: 120 VAC, 60Hz
- Lamp End of Life Protection
- Rapid Start

| General characteristics | |
|----------------------------|--------------|
| Starting Temperature (MIN) | -18°C (0°F) |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 75°C (167°F) |
| Sound Rating | A |
| Starting time | 0.5s<t<2s |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1a – see example on page 13-18 | |
| Case dimensions – Ref Drawing - | |
| Length (L) | 5.9 in (150 mm) |
| Width (W) | 0.93 in (24 mm) |
| Height (H) | 0.75 in (19 mm) |
| Mounting dimensions | |
| Mount Length (M) | 5.6 in (143 mm) |
| Weight | 0.29 lbs |
| Lead lengths Length (± 1 in) | |
| Black/White | 12 in (305 mm) |
| Blue | 31 in (787 mm) |
| Red | 19 in (483 mm) |

| Specifications by lamp and wattage | | | | | | | |
|------------------------------------|------------|------------|-------------|----------------|---------------------|-------------------|----------------------------|
| Lamp | # of Lamps | Line Volts | Input Watts | Nom. Line Amps | Power Factor % (>=) | Crest Factor (<=) | Min. Starting Temp (°F/°C) |
| F21T5 | 1 | 120 | 21 | 0.33 | 0.50 | 1.7 | 0/-18 |
| F14T5 | 1 | 120 | 16 | 0.26 | 0.50 | 1.7 | 0/-18 |
| F13T5 | 1 | 120 | 16 | 0.26 | 0.50 | 1.7 | 0/-18 |

Safety and performance

 UL/cUL Listed
  UL/cUL Listed Class P
  UL/cUL Listed Type 1 Outdoor
 Meets FCC Part 18 Consumer Limits
 Meets ANSI Standard C62.41-2002
 OCV 300V Product is compliant with material restriction requirements of RoHS Meets November 14 DOE standards No PCB's

78811 - GE28T5-120-RES

T5 High Efficiency - Rapid Start

Electronic ballast for (1) F28T5; or (1) F21T5; or (1) F14T5




- Line Voltage: 120 VAC, 60Hz
- Lamp End of Life Protection
- Rapid Start
- Series Lamp Operation

| General characteristics | |
|----------------------------|--------------|
| Starting Temperature (MIN) | -18°C (0°F) |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 75°C (167°F) |
| Sound Rating | A |
| Starting time | 0.8s<t<1.3s |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1b – see example on page 13-18 | |
| Case dimensions – Ref Drawing - | |
| Length (L) | 5.9 in (150 mm) |
| Width (W) | 0.93 in (24 mm) |
| Height (H) | 0.75 in (19 mm) |
| Mounting dimensions | |
| Mount Length (M) | 5.6 in (143 mm) |
| Weight | 0.29 lbs |
| Lead lengths Length (± 1 in) | |
| Black/White | 19 in (483 mm) |
| Blue | 31 in (787 mm) |
| Red | 19 in (483 mm) |

| Specifications by lamp and wattage | | | | | | | |
|------------------------------------|------------|------------|-------------|----------------|---------------------|-------------------|----------------------------|
| Lamp | # of Lamps | Line Volts | Input Watts | Nom. Line Amps | Power Factor % (>=) | Crest Factor (<=) | Min. Starting Temp (°F/°C) |
| F28T5 | 1 | 120 | 30.5 | 0.475 | 0.50 | 1.7 | 0/-18 |
| F21T5 | 1 | 120 | 24.3 | 0.39 | 0.50 | 1.7 | 0/-18 |
| F14T5 | 2 | 120 | 30.5 | 0.47 | 0.50 | 1.7 | 0/-18 |

Safety and performance

 UL/cUL Listed
  UL/cUL Listed Class P
  UL/cUL Listed Type 1 Outdoor
 Meets FCC Part 18 Consumer Limits
 Meets ANSI Standard C62.41-2002
 OCV 300V Product is compliant with material restriction requirements of RoHS Meets November 14 DOE standards No PCB's Type HL

80021 - GE28T5/2-120-RES

T5 High Efficiency - Rapid Start

Electronic ballast for (2) F28T5; or (2) F21T5; or (2) F14T5




- Line Voltage: 120 VAC, 60Hz
- Lamp End of Life Protection
- Rapid Start
- Normal Power Factor Correction

| General characteristics | |
|----------------------------|------------------------------|
| Starting Temperature (MIN) | -18°C (0°F) |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 75°C (167°F) |
| Sound Rating | A |
| Remote Mounting | 18 ft max Lead Length, 18AWG |

| Dimensions | |
|--|-------------------|
| Wiring diagram – LFL 2a – see example on page 13-18 | |
| Case dimensions – Ref Drawing - | |
| Length (L) | 9 in (230 mm) |
| Width (W) | 0.88 in (22.5 mm) |
| Height (H) | 0.88 in (22.5 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.75 in (222 mm) |
| Weight | 0.67 lbs |
| Lead lengths Length (± 1 in) | |
| Black/White | 18 in (457 mm) |
| Blue | 27 in (686 mm) |
| Red | 27 in (686 mm) |
| Yellow | 27 in (686 mm) |

| Specifications by lamp and wattage | | | | | | | |
|------------------------------------|------------|------------|-------------|----------------|---------------------|-------------------|----------------------------|
| Lamp | # of Lamps | Line Volts | Input Watts | Nom. Line Amps | Power Factor % (>=) | Crest Factor (<=) | Min. Starting Temp (°F/°C) |
| F28T5 | 2 | 120 | 60 | 0.96 | 0.50 | 1.7 | 0/-18 |
| F21T5 | 2 | 120 | 44 | 0.78 | 0.50 | 1.7 | 0/-18 |
| F14T5 | 2 | 120 | 31 | 0.62 | 0.50 | 1.7 | 0/-18 |

Safety and performance

 UL/cUL Listed
  UL/cUL Listed Class P
  UL/cUL Listed Type 1 Outdoor
 Meets FCC Part 18 Consumer Limits
 Meets ANSI Standard C62.41-2002
 OCV 300V Product is compliant with material restriction requirements of RoHS Meets November 14 DOE standards No PCB's Meets Energy Star Version 1.0 Type HL

T5 High Efficiency – Programmed Start

T5 Electronic Programmed Start For F14 (2 ft), F21 (3 ft), F28 (4 ft), F35 (5 ft) HE T5 Lamps*

68994 – GE228MVPS-MC-H (replaces 99653)

T5 High Efficiency - UltraStart® Programmed Start

2 – F21-F28T5HE, 120 to 277 UltraStart® PRS High Light 1.15 BF A Can

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 131°F (55°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | High (1.15) |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Additional Info | Auto-restart, End-of-Life Protection (EOL), Thermally protected, Universal voltage, Anti-striation control |

| Electrical characteristics | |
|----------------------------|----------|
| Supply Current Frequency | 50/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 68994 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F28T5HE | 2 | 277 | 71 | 0.26 A | 1.15 | 1.61 | 99 | 1.4 | 6 | 0/-18 |
| | 2 | 120 | 73 | 0.61 A | 1.15 | 1.57 | 99 | 1.4 | 6 | 0/-18 |
| | 2 | 277 | 69 | 0.25 A | 1.16 | 1.68 | 99 | 1.4 | 6 | 0/-18 |
| F28T5HL | 2 | 120 | 73 | 0.61 A | 1.16 | 1.59 | 99 | 1.4 | 7 | 0/-18 |
| | 2 | 277 | 69 | 0.25 A | 1.12 | 1.63 | 98 | 1.4 | 6 | 32/0 |
| | 2 | 120 | 71 | 0.59 A | 1.12 | 1.58 | 99 | 1.4 | 7 | 32/0 |
| F28T5WM | 2 | 277 | 56 | 0.21 A | 1.24 | 2.21 | 98 | 1.4 | 7 | 32/0 |
| | 2 | 120 | 57 | 0.48 A | 1.24 | 2.18 | 99 | 1.4 | 7 | 32/0 |

Safety and performance UL Type CC UL Type 1 Outdoor UL Listed UL Type HL FCC – CLASS A Non-Consumer UL Class P Meets ANSI Standard C62.41-1991
Product is compliant with material restriction requirements of RoHS Meets ANSI Standard C82.11- cons 2002 No PCB's

68993 – GE228MVPS-MC (replaces 99655)

T5 High Efficiency - UltraStart® Programmed Start

2 or 1 – F14-F28T5HE, 120 – 277 UltraStart® PRS Normal Light - .95 BF A Can

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 131°F (55°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Additional Info | Auto-restart, End-of-Life Protection (EOL), Thermally protected, Universal voltage, Anti-striation control |

| Electrical characteristics | |
|----------------------------|----------|
| Supply Current Frequency | 50/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 68993 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F28T5HE | 2 | 277 | 60 | 0.22 A | 0.96 | 1.60 | 99 | 1.4 | 6 | 0/-18 |
| | 1 | 277 | 41 | 0.16 A | 1.21 | 2.95 | 97 | 1.4 | 9 | 0/-18 |
| | 2 | 120 | 62 | 0.53 A | 0.96 | 1.55 | 99 | 1.4 | 7 | 0/-18 |
| | 1 | 120 | 41 | 0.35 A | 1.21 | 2.95 | 99 | 1.4 | 8 | 0/-18 |
| | 2 | 277 | 60 | 0.23 A | 0.96 | 1.60 | 98 | 1.4 | 6 | 32/0 |
| | 1 | 277 | 41 | 0.15 A | 1.21 | 2.95 | 97 | 1.4 | 10 | 32/0 |
| F28T5HL | 2 | 120 | 62 | 0.52 A | 0.96 | 1.55 | 99 | 1.4 | 7 | 32/0 |
| | 1 | 120 | 41 | 0.35 A | 1.21 | 2.95 | 99 | 1.4 | 8 | 32/0 |
| | 2 | 277 | 58 | 0.22 A | 0.98 | 1.69 | 98 | 1.4 | 6 | 32/0 |
| F28T5WM | 2 | 120 | 59 | 0.50 A | 0.98 | 1.66 | 99 | 1.4 | 7 | 32/0 |
| | 2 | 277 | 50 | 0.18 A | 1.04 | 2.08 | 98 | 1.4 | 7 | 32/0 |
| F21T5HE | 2 | 120 | 51 | 0.43 A | 1.04 | 2.04 | 99 | 1.4 | 8 | 32/0 |
| | 2 | 277 | 37 | 0.14 A | 1.10 | 2.97 | 97 | 1.4 | 10 | 32/0 |
| F14T5HE | 2 | 120 | 37 | 0.32 A | 1.10 | 2.97 | 99 | 1.4 | 9 | 32/0 |
| | 2 | 277 | 36 | 0.13 A | 1.10 | 3.06 | 97 | 1.4 | 11 | 32/0 |
| F14T5WM | 2 | 120 | 36 | 0.30 A | 1.10 | 3.06 | 99 | 1.4 | 9 | 32/0 |

Safety and performance UL Type CC UL Type 1 Outdoor UL Listed UL Type HL FCC – CLASS A Non-Consumer UL Class P UL Listed Meets ANSI Standard C62.41-1991
Product is compliant with material restriction requirements of RoHS Meets ANSI Standard C82.11- cons 2002 No PCB's

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- Multi-Voltage technology means a single ballast handles voltage from 108V to 305V
- Auto-Restart withstands temporary losses in power without the need to cycle power

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 4a – see example on page 13-17 | |
| Case dimensions – Ref Drawing - A Can – see page 13-19 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.0 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 8 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (+ 1 in) |
| White and Black | 20 in (508 mm) |
| Blue and Red | 26 in (660 mm) |
| Yellow | 37 in (940 mm) |

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- Multi-Voltage technology means a single ballast handles voltage from 108V to 305V
- Auto-Restart withstands temporary losses in power without the need to cycle power

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 4a – see example on page 13-17 | |
| Case dimensions – Ref Drawing - A Can – see page 13-19 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.0 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 8 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (+ 1 in) |
| White and Black | 20 in (508 mm) |
| Blue and Red | 26 in (660 mm) |
| Yellow | 37 in (940 mm) |

T5 High Output – Programmed Start

T5 Electronic Programmed Start For T5 HO Lamps*

68976 – GE224MVPS-N

T5 High Output - Programmed Start

2 – F24T5HO PRS UNV 50/60 Hz C Can

- Electronic ballasts for all general fluorescent applications
- Extends lamp life in frequently switched applications
- Reduced lamp replacement cost; ideal for use with occupancy sensors

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 131°F (55°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, End-of-Life Protection (EOL), Thermally protected, Universal voltage |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 68976 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| F24T5HO | 2 | 277 | 50 | 0.18 A | 0.98 | 1.96 | 98 | 1.4 | 5 | 0/-18 |
| | 1 | 277 | 32 | 0.11 A | 1.14 | 3.56 | 96 | 1.4 | 6 | 0/-18 |
| | 2 | 120 | 51 | 0.42 A | 0.98 | 1.92 | 99 | 1.4 | 6 | 0/-18 |
| | 1 | 120 | 32 | 0.27 A | 1.14 | 3.56 | 99 | 1.4 | 7 | 0/-18 |
| | 2 | 277 | 47 | 0.17 A | 1.09 | 2.32 | 98 | 1.4 | 5 | 32/0 |
| | 1 | 277 | 29 | 0.11 A | 1.20 | 4.14 | 96 | 1.4 | 6 | 32/0 |
| FT24W/2G11 | 2 | 120 | 48 | 0.40 A | 1.09 | 2.27 | 99 | 1.4 | 6 | 32/0 |
| | 1 | 120 | 29 | 0.24 A | 1.20 | 4.14 | 99 | 1.4 | 7 | 32/0 |
| | 1 | 277 | 36 | 0.13 A | 1.13 | 3.14 | 97 | 1.4 | 5 | 32/0 |
| FT36W/2G11 | 1 | 120 | 37 | 0.31 A | 1.13 | 3.05 | 99 | 1.4 | 6 | 32/0 |
| | 1 | 277 | 46 | 0.17 A | 1.08 | 2.35 | 98 | 1.4 | 5 | 32/0 |
| F39T5/HO | 1 | 120 | 47 | 0.39 A | 1.08 | 2.30 | 99 | 1.4 | 6 | 32/0 |

Safety and performance UL Type 1 Outdoor UL Type HL FCC - CLASS A Non-Consumer UL Class P UL Listed No PCB's UL Type CC ANSI Standard C82.11 - Cons 2002
ANSI Standard C62.41 - 1991 Product is compliant with material restriction requirements of RoHs

47540 – B239PUNV-DOG1C

T5 High Output - Programmed Start

2 – F39T5HO PRS UNV 50/60 Hz D Can

- Electronic ballasts for all general fluorescent applications
- Extends lamp life in frequently switched applications
- Reduced lamp replacement cost; ideal for use with occupancy sensors

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, End-of-Life Protection (EOL), Thermally protected, Universal voltage |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 47540 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| F39T5/HO | 2 | 120 | 89 | 0.74 A | 0.98 | 1.10 | | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 88 | 0.32 A | 0.98 | 1.11 | | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 47 | 0.39 A | 0.98 | 2.08 | | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 47 | 0.17 A | 0.95 | 2.02 | | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 71 | 0.59 A | 0.98 | 1.38 | 97 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 70 | 0.25 A | 0.95 | 1.35 | 97 | 1.7 | 10 | 0/-18 |
| FT39W/4P | 1 | 120 | 38 | 0.31 A | 0.98 | 2.57 | | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 38 | 0.14 A | 0.90 | 2.36 | | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 59 | 0.51 A | 0.98 | 1.66 | | 1.7 | 10 | 0/-18 |
| F24T5/HO | 2 | 277 | 59 | 0.22 A | 0.95 | 1.61 | | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 32 | 0.26 A | 0.98 | 3.06 | | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 32 | 0.12 A | 0.90 | 2.81 | | 1.7 | 10 | 0/-18 |

Safety and performance UL Type 1 Outdoor UL Type HL FCC - CLASS A Non-Consumer UL Class P CSA UL Listed

T5 High Output – Programmed Start

T5 Electronic Programmed Start For T5 HO Lamps*

67562 – GE254MVPS90-A

T5 High Output - UltraStart® Programmed Start

2 or 1 – F54T5HO 120 to 277V UltraStart® PRS High Temp A Can





| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 131°F (55°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, End-of-Life Protection (EOL), Thermally protected, Universal voltage, Anti-striation control |

| Electrical characteristics | |
|----------------------------|----------|
| Supply Current Frequency | 50/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 67562 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F54T5HO | 2 | 120 | 117 | 0.98 | 1.00 | 0.85 | 1.00 | 1.4 | 4.4 | -20/-29 |
| | 2 | 277 | 114 | 0.41 | 1.10 | 0.96 | 0.99 | 1.4 | 5.4 | -20/-29 |
| | 1 | 120 | 63 | 0.53 | 1.00 | 1.59 | 1.00 | 1.4 | 6.4 | -20/-29 |
| | 1 | 277 | 62 | 0.23 | 1.10 | 1.77 | 0.97 | 1.4 | 6.6 | -20/-29 |
| | 2 | 120 | 109 | 0.90 | 1.00 | 0.92 | 1.00 | 1.4 | 4.6 | 0/-18 |
| | 2 | 277 | 107 | 0.40 | 1.12 | 1.05 | 0.99 | 1.4 | 5.2 | 0/-18 |
| F54T5WM | 1 | 120 | 61 | 0.51 | 1.00 | 1.64 | 1.00 | 1.4 | 6.7 | 0/-18 |
| | 1 | 277 | 60 | 0.22 | 1.12 | 1.87 | 0.97 | 1.4 | 7.7 | 0/-18 |
| | 2 | 120 | 105 | 0.88 | 1.00 | 0.95 | 1.00 | 1.4 | 4.8 | -20/-29 |
| | 2 | 277 | 104 | 0.40 | 1.10 | 1.06 | 0.99 | 1.4 | 5.3 | -20/-29 |
| | 1 | 120 | 58 | 0.48 | 1.00 | 1.72 | 1.00 | 1.4 | 6.9 | -20/-29 |
| | 1 | 277 | 57 | 0.22 | 1.10 | 1.93 | 0.96 | 1.4 | 8.0 | -20/-29 |
| F54T5/47W | 2 | 120 | 110 | 0.90 | 0.95 | 0.86 | 1.00 | 1.4 | 4.7 | -20/-29 |
| | 2 | 277 | 107 | 0.39 | 0.95 | 0.89 | 0.99 | 1.4 | 5.4 | -20/-29 |
| | 1 | 120 | 59 | 0.49 | 1.08 | 1.83 | 1.00 | 1.4 | 6.6 | -20/-29 |
| | 1 | 277 | 59 | 0.22 | 1.08 | 1.83 | 0.96 | 1.4 | 7.3 | -20/-29 |
| | 2 | 120 | 116 | 0.97 | 0.86 | 0.74 | 1.00 | 1.4 | 4.9 | 0/-18 |
| | 2 | 277 | 112 | 0.41 | 0.86 | 0.77 | 0.99 | 1.4 | 5.4 | 0/-18 |
| FT55W/4P | 1 | 120 | 61 | 0.51 | 1.03 | 1.69 | 1.00 | 1.4 | 6.8 | 0/-18 |
| | 1 | 277 | 60 | 0.23 | 1.03 | 1.72 | 0.97 | 1.4 | 8.0 | 0/-18 |
| | 2 | 120 | 118 | 1.00 | 1.05 | 0.89 | 1.00 | 1.4 | 4.6 | 0/-18 |
| | 2 | 277 | 116 | 0.43 | 1.06 | 0.91 | 0.99 | 1.4 | 5.2 | 0/-18 |
| | 1 | 120 | 64 | 0.53 | 1.18 | 1.84 | 1.00 | 1.4 | 6.6 | 0/-18 |
| | 1 | 277 | 63 | 0.24 | 1.18 | 1.87 | 0.97 | 1.4 | 7.4 | 0/-18 |

Safety and performance

 UL Type 1 Outdoor
  UL Type CC
  UL Listed Meets ANSI Standard G62.41-1991
  UL Class P Meets ANSI Standard C82.11- cons 2002

FCC – CLASS A Non-Consumer Product is compliant with material restriction requirements of RoHS

High Temperature Rated: Suitable for high temperature applications 80°C max case temp 5 yr warranty.

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- Multi-Voltage technology means a single ballast handles voltage from 108V to 305V
- Auto-Restart withstands temporary losses in power without the need to cycle power

| Dimensions | |
|---|-------------------|
| Wiring diagram – LFL 4a (One lamp operation) & T51 – see example on page 13-18 | |
| Case dimensions – Ref Drawing - F – see page 13-19 | |
| Length (L) | 9.5 in (241.3 mm) |
| Width (W) | 1.7 in (43.2 mm) |
| Height (H) | 1.2 in (30.5 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Slots (MS) | 0.25 in (6 mm) |
| Weight | 1.50 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 12 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| White and Black | 25 in (635 mm) |
| Blue and Red | 34 in (864 mm) |
| Yellow | 45 in (1143 mm) |

T5 High Output – Programmed Start

T5 Electronic Programmed Start For T5 HO Lamps*

33957 - GE254MVPS-D-1

T5 High Output - UltraStart® Programmed Start

2 or 1 – F54T5HO 120 to 277V UltraStart® PRS High Temp D Can

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Fast Starting Time <700ms
- Multi-Voltage technology means a single ballast handles voltage from 108V to 305V
- Auto-Restart withstands temporary losses in power without the need to cycle power
- Anti-Striation Control for better light quality, with no striations.
- Cold temperature -20°F Minimum Starting Temperature

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic -Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, End of Life Protection (EOL), Thermally protected, Universal voltage |



| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 4a – see example on page 13-17 | |
| Case dimensions – Ref Drawing -A Can – see page 13-19 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.5 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.9 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.1 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

| Electrical characteristics | |
|----------------------------|----------|
| Supply Current Frequency | 50/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 33957 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F54T5/47W | 2 | 120 | 106 | 0.93 A | 1.00 | 0.94 | 99 | 1.7 | 5 | -20/-29 |
| | 2 | 277 | 105 | 0.40 A | 1.00 | 0.95 | 98 | 1.7 | 8 | -20/-29 |
| | 1 | 120 | 67 | 0.60 A | 0.13 | 0.19 | 99 | 1.5 | 6 | -20/-29 |
| | 1 | 277 | 67 | 0.26 A | 1.13 | 1.69 | 98 | 1.5 | 8 | -20/-29 |
| F54T5/49W | 2 | 120 | 106 | 0.88 A | 0.99 | 0.93 | 98 | 1.7 | 10 | -20/-29 |
| | 2 | 277 | 105 | 0.38 A | 0.98 | 0.95 | 97 | 1.7 | 10 | -20/-29 |
| | 1 | 120 | 53 | 0.44 A | 0.90 | 1.70 | 99 | 1.7 | 10 | -20/-29 |
| | 1 | 277 | 58 | 0.21 A | 1.04 | 1.70 | 90 | 1.7 | 10 | -20/-29 |
| F54T5/HO | 2 | 120 | 120 | 1.00 A | 1.00 | 0.84 | 98 | 1.7 | 10 | -20/-29 |
| | 2 | 277 | 117 | 0.43 A | 1.00 | 0.85 | 97 | 1.7 | 10 | -20/-29 |
| | 1 | 120 | 62 | 0.52 A | 1.03 | 1.46 | 98 | 1.7 | 10 | -20/-29 |
| | 1 | 277 | 62 | 0.23 A | 1.03 | 1.49 | 90 | 1.7 | 10 | -20/-29 |
| F54T5/WM | 2 | 120 | 112 | 0.94 A | 1.00 | 0.89 | 99 | 1.7 | 5 | 0/-18 |
| | 2 | 277 | 111 | 0.41 A | 1.00 | 0.90 | 98 | 1.7 | 8 | 0/-18 |
| | 1 | 120 | 71 | 0.59 A | 1.13 | 1.59 | 99 | 1.5 | 6 | 0/-18 |
| | 1 | 277 | 71 | 0.26 A | 1.13 | 1.59 | 98 | 1.5 | 8 | 0/-18 |
| F58T8 | 2 | 120 | 108 | 0.91 A | 0.95 | 0.88 | 99 | 1.6 | 7 | -20/-29 |
| | 2 | 277 | 105 | 0.38 A | 0.95 | 0.90 | 98 | 1.6 | 8 | -20/-29 |
| | 1 | 120 | 69 | 0.58 A | 1.09 | 1.58 | 99 | 1.6 | 7 | -20/-29 |
| | 1 | 277 | 69 | 0.25 A | 1.09 | 1.58 | 97 | 1.6 | 11 | -20/-29 |
| FT39W/4P | 2 | 120 | 89 | 0.75 A | 1.17 | 1.31 | 99 | 1.6 | 7 | -20/-29 |
| | 2 | 277 | 84 | 0.31 A | 1.17 | 1.39 | 98 | 1.6 | 9 | -20/-29 |
| | 1 | 120 | 55 | 0.46 A | 1.29 | 2.35 | 99 | 1.6 | 7 | -20/-29 |
| | 1 | 277 | 55 | 0.21 A | 1.28 | 2.33 | 96 | 1.6 | 15 | -20/-29 |
| FT50W/4P | 2 | 120 | 118 | 1.01 A | 1.12 | 0.85 | 98 | 1.7 | 10 | -20/-29 |
| | 2 | 277 | 115 | 0.43 A | 1.12 | 0.91 | 98 | 1.7 | 10 | -20/-29 |
| | 1 | 120 | 61 | 0.52 A | 1.15 | 1.58 | 98 | 1.7 | 10 | -20/-29 |
| | 1 | 277 | 61 | 0.23 A | 1.15 | 1.61 | 90 | 1.7 | 10 | -20/-29 |
| FT55W/4P | 2 | 120 | 112 | 0.94 A | 0.91 | 0.80 | 98 | 1.7 | 10 | -20/-29 |
| | 2 | 277 | 109 | 0.4 A | 0.91 | 0.80 | 98 | 1.7 | 10 | -20/-29 |
| | 1 | 120 | 58 | 0.51 A | 0.93 | 1.49 | 98 | 1.7 | 10 | -20/-29 |
| | 1 | 277 | 58 | 0.22 A | 0.93 | 1.51 | 90 | 1.7 | 10 | -20/-29 |

Safety and performance

Product is compliant with material restriction requirements of RoHS  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer ANSI-C62.41-1991

ANSI-C82.11-Cons 2002  UL Class P  UL Type CC  UL Listed  CSA

High Temperature Rated: Suitable for high temperature applications 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty

T5 High Output – Programmed Start

T5 Electronic Programmed Start For T5 HO Lamps*

94131 – GE454MVPS90-E-S (replaces 73192)

T5 High Output - UltraStart® Programmed Start

4/2 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Multi-Voltage technology means a single ballast handles voltage from 108V to 305V
- Auto-Restart withstands temporary losses in power without the need to cycle power
- UltraCool® Operation 90°C case rating
- Anti-Striation Control for better light quality, with no striations.
- Individual lamp End of Lamp Life protection - only one lamp shuts down at end of life.
- Cold temperature -20F Minimum Starting Temperature
- The ballast should have the step dimming features and be able to provide 50% input power (+/-15%) in the dimming mode by shutdown 2 of the 4 lamps.

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic - Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, End of Life Protection (EOL), Thermally protected |

| Electrical characteristics | |
|----------------------------|------------|
| Supply Current Frequency | 50Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 94131 | | | |

| Dimensions | |
|---|-------------------|
| Wiring diagram – LFL 4c – see example on page 13-17 | |
| Case dimensions – Ref Drawing – G Can – see page 13-19 | |
| Length (L) | 16.7 in (424 mm) |
| Width (W) | 1.7 in (41 mm) |
| Height (H) | 1.2 in (30.5 mm) |
| Mounting dimensions | |
| Mount Length (M) | 16.1 in (410 mm) |
| Weight | 2.73 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 12 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Length (± 1 in.) | |
| Black/White | 25.0 in (635 mm) |
| Blue | 34.0 in (864 mm) |
| Blue/White | 34.0 in (864 mm) |
| Gray | 25.0 in (635 mm) |
| Orange | 47.0 in (1195 mm) |
| Red | 34.0 in (864 mm) |
| Red/White | 34.0 in (864 mm) |
| Yellow | 47.0 in (1195 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F54T5/HO | 4 | 277 | 222 | 0.84 A | 1.00 | 0.45 | 99 | 1.7 | 4 | -20/-29 |
| | 3 | 277 | 171 | 0.66 A | 1.01 | 0.59 | 99 | 1.7 | 5 | -20/-29 |
| | 2 | 277 | 114 | 0.44 A | 1.00 | 0.87 | 98 | 1.7 | 8 | -20/-29 |
| | 4 | 120 | 227 | 2.02 A | 0.99 | 0.44 | 99 | 1.7 | 6 | -20/-29 |
| | 3 | 120 | 174 | 1.59 A | 0.99 | 0.57 | 99 | 1.7 | 7 | -20/-29 |
| | 2 | 120 | 114 | 1.02 A | 1.00 | 0.87 | 99 | 1.7 | 8 | -20/-29 |
| | 4 | 277 | 204 | 0.76 A | 1.00 | 0.49 | 99 | 1.7 | 4 | -20/-29 |
| | 3 | 277 | 160 | 0.61 A | 1.00 | 0.62 | 99 | 1.7 | 6 | -20/-29 |
| | 2 | 277 | 105 | 0.39 A | 1.00 | 0.95 | 98 | 1.7 | 7 | -20/-29 |
| | 4 | 120 | 208 | 1.83 A | 1.00 | 0.48 | 99 | 1.7 | 4 | -20/-29 |
| | 3 | 120 | 162 | 1.44 A | 1.00 | 0.62 | 99 | 1.7 | 7 | -20/-29 |
| | 2 | 120 | 105 | 0.92 A | 1.00 | 0.95 | 99 | 1.7 | 9 | -20/-29 |
| F54T5/47W | 4 | 277 | 210 | 0.76 A | 1.03 | 0.49 | 99 | 1.7 | 4 | -20/-29 |
| | 3 | 277 | 164 | 0.61 A | 1.03 | 0.63 | 99 | 1.7 | 5 | -20/-29 |
| | 2 | 277 | 109 | 0.39 A | 1.03 | 0.95 | 98 | 1.7 | 7 | -20/-29 |
| | 4 | 120 | 215 | 1.83 A | 1.04 | 0.48 | 99 | 1.7 | 6 | -20/-29 |
| | 3 | 120 | 166 | 1.44 A | 1.04 | 0.63 | 99 | 1.7 | 7 | -20/-29 |
| | 2 | 120 | 109 | 0.92 A | 1.05 | 0.97 | 99 | 1.7 | 9 | -20/-29 |
| | 4 | 277 | 211 | 0.78 A | 1.01 | 0.48 | 99 | 1.7 | 4 | -20/-29 |
| | 3 | 277 | 165 | 0.63 A | 1.02 | 0.62 | 99 | 1.7 | 5 | -20/-29 |
| | 2 | 277 | 109 | 0.41 A | 1.04 | 0.95 | 98 | 1.7 | 7 | -20/-29 |
| | 4 | 120 | 216 | 1.89 A | 1.04 | 0.48 | 99 | 1.7 | 6 | -20/-29 |
| | 3 | 120 | 168 | 1.49 A | 1.03 | 0.61 | 99 | 1.7 | 7 | -20/-29 |
| | 2 | 120 | 109 | 0.96 A | 1.03 | 0.94 | 99 | 1.7 | 9 | -20/-29 |
| F54T5/WM | 4 | 277 | 208 | 0.77 A | | 0.00 | 99 | 1.7 | 4 | -20/-29 |
| | 3 | 277 | 161 | 0.61 A | | 0.00 | 99 | 1.7 | 6 | -20/-29 |
| | 2 | 277 | 107 | 0.40 A | | 0.00 | 98 | 1.7 | 8 | -20/-29 |
| | 4 | 120 | 213 | 1.85 A | | 0.00 | 99 | 1.7 | 6 | -20/-29 |
| | 3 | 120 | 164 | 1.44 A | | 0.00 | 99 | 1.7 | 7 | -20/-29 |
| | 2 | 120 | 107 | 0.94 A | | 0.00 | 99 | 1.7 | 9 | -20/-29 |
| | 4 | 277 | 210 | 0.77 A | 0.92 | 0.44 | 99 | 1.7 | 4 | 0/-18 |
| | 3 | 277 | 162 | 0.62 A | 0.91 | 0.56 | 99 | 1.7 | 5 | 0/-18 |
| | 2 | 277 | 109 | 0.40 A | 0.92 | 0.85 | 98 | 1.7 | 7 | 0/-18 |
| | 4 | 120 | 215 | 1.87 A | 0.91 | 0.42 | 99 | 1.7 | 6 | 0/-18 |
| | 3 | 120 | 165 | 1.47 A | 0.91 | 0.55 | 99 | 1.7 | 7 | 0/-18 |
| | 2 | 120 | 109 | 0.93 A | 0.93 | 0.85 | 99 | 1.7 | 9 | 0/-18 |
| FT55W/2G11 | 4 | 277 | 219 | 0.83 A | 0.90 | 0.41 | 99 | 1.7 | 4 | 0/-18 |
| | 3 | 277 | 170 | 0.66 A | 0.90 | 0.53 | 99 | 1.7 | 5 | 0/-18 |
| | 2 | 277 | 112 | 0.43 A | 0.90 | 0.80 | 98 | 1.7 | 8 | 0/-18 |
| | 4 | 120 | 224 | 2.01 A | 0.89 | 0.40 | 99 | 1.7 | 6 | 0/-18 |
| | 3 | 120 | 172 | 1.57 A | 0.89 | 0.52 | 99 | 1.7 | 7 | 0/-18 |
| | 2 | 120 | 112 | 1.00 A | 0.90 | 0.80 | 99 | 1.7 | 9 | 0/-18 |

Safety and performance

Product is compliant with material restriction requirements of RoHS  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer ANSI-C62.41-1991

ANSI-C82.11-Cons 2002  UL Class P  UL Type CC  UL Listed  cUL Listed No PCB's For one lamp operation, safety only DOE 2014 ballast rule - 10 CFR Part 430

High Temperature Rated: Suitable for high temperature applications 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty

T5 High Output – Programmed Start

T5 Electronic Programmed Start For T5 HO Lamps*

67566 – GE454MVPS90-F (replaces 77114)

T5 High Output - UltraStart® Programmed Start

4-1 – F54T5HO 120 to 277 UltraStart® PS F Can

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- Multi-Voltage technology means a single ballast handles voltage from 108V to 305V
- Auto-Restart withstands temporary losses in power without the need to cycle power
- Anti-Striation Control for better light quality, with no striations
- 90°C case rating/UL Approved 55C Ambient Rating
- Individual lamp End of Lamp Life protection - only one lamp shuts down at end of life
- Cold temperature -20°F Minimum Starting Temperature

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic - Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, End of Life Protection (EOL), Thermally protected |

| Dimensions | |
|--|-------------------|
| Wiring diagram – LFL PS4- see example on page 13-18 | |
| Case dimensions – Ref Drawing - E Can – see page 13-19 | |
| Length (L) | 11.75 in (298 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 16.7 in (424 mm) |
| Weight | 2.79 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 8 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in.) |
| Black | 25.0 in (635 mm) |
| White | 25.0 in (635 mm) |

| Electrical characteristics | |
|----------------------------|------------|
| Supply Current Frequency | 50Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 65766 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| FT55W/4P | 4 | 120 | 206 | 1.73 A | 0.86 | 0.42 | 99 | 1.4 | 5 | 0/-18 |
| | 4 | 277 | 203 | 0.75 A | 0.86 | 0.42 | 97 | 1.4 | 8 | 0/-18 |
| | 3 | 120 | 168 | 1.41 A | 0.91 | 0.54 | 99 | 7.0 | 6 | 0/-18 |
| | 3 | 277 | 168 | 0.63 A | 0.91 | 0.54 | 97 | 1.4 | 10 | 0/-18 |
| | 2 | 120 | 125 | 1.04 A | | | 99 | 1.4 | 7 | 0/-18 |
| | 2 | 277 | 124 | 0.48 A | | | 94 | 1.4 | 16 | 0/-18 |
| | 1 | 120 | 64 | 0.54 A | | | 99 | 1.4 | 10 | 0/-18 |
| | 1 | 277 | 66 | 0.28 A | | | 84 | 1.4 | 25 | 0/-18 |
| | 4 | 120 | 222 | 1.86 A | 1.06 | 0.48 | 99 | 1.4 | 5 | 0/-18 |
| | 4 | 277 | 218 | 0.81 A | 1.06 | 0.49 | 98 | 1.4 | 8 | 0/-18 |
| | 3 | 120 | 187 | 1.56 A | 1.11 | 0.59 | 99 | 1.4 | 6 | 0/-18 |
| | 3 | 277 | 184 | 0.68 A | 1.11 | 0.60 | 97 | 1.4 | 9 | 0/-18 |
| FT50W/4P | 2 | 120 | 130 | 1.09 A | | | 99 | 1.4 | 7 | 0/-18 |
| | 2 | 277 | 130 | 0.50 A | | | 95 | 1.4 | 15 | 0/-18 |
| | 1 | 120 | 72 | 0.60 A | | | 99 | 1.4 | 10 | 0/-18 |
| | 1 | 277 | 73 | 0.31 A | | | 85 | 1.4 | 26 | 0/-18 |
| | 4 | 120 | 208 | 1.73 A | 0.95 | 0.46 | 99 | 1.4 | 5 | -20/-29 |
| | 4 | 277 | 204 | 0.76 A | 0.95 | 0.47 | 97 | 1.4 | 9 | -20/-29 |
| | 3 | 120 | 176 | 1.47 A | 0.99 | 0.56 | 99 | 1.4 | 6 | -20/-29 |
| | 3 | 277 | 173 | 0.65 A | 0.99 | 0.57 | 94 | 1.4 | 10 | -20/-29 |
| | 2 | 120 | 128 | 1.07 A | | | 99 | 1.4 | 7 | -20/-29 |
| | 2 | 277 | 127 | 0.49 A | | | 94 | 1.4 | 16 | -20/-29 |
| | 1 | 120 | 67 | 0.57 A | | | 99 | 1.4 | 10 | -20/-29 |
| | 1 | 277 | 68 | 0.29 A | | | 85 | 1.4 | 25 | -20/-29 |
| F58T8 | 4 | 120 | 214 | 1.79 A | 1.00 | 0.47 | 99 | 1.4 | 5 | 0/-18 |
| | 4 | 277 | 210 | 0.78 A | 1.00 | 0.48 | 98 | 1.4 | 8 | 0/-18 |
| | 3 | 120 | 181 | 1.51 A | 1.01 | 0.56 | 99 | 1.4 | 6 | 0/-18 |
| | 3 | 277 | 178 | 0.66 A | 1.01 | 0.57 | 97 | 1.4 | 9 | 0/-18 |
| | 2 | 120 | 130 | 1.09 A | 0.96 | 0.74 | 99 | 1.4 | 7 | 0/-18 |
| | 2 | 277 | 135 | 0.51 A | 0.96 | 0.71 | 95 | 1.4 | 15 | 0/-18 |
| | 1 | 120 | 69 | 0.58 A | 1.12 | 1.62 | 99 | 1.4 | 10 | 0/-18 |
| | 1 | 277 | 70 | 0.30 A | 1.12 | 1.60 | 85 | 1.4 | 26 | 0/-18 |
| | 4 | 120 | 220 | 1.84 A | 1.00 | 0.45 | 99 | 1.4 | 5 | -20/-29 |
| | 4 | 277 | 216 | 0.80 A | 1.00 | 0.46 | 98 | 1.4 | 8 | -20/-29 |
| | 3 | 120 | 185 | 1.55 A | 1.01 | 0.55 | 99 | 1.4 | 6 | -20/-29 |
| | 3 | 277 | 182 | 0.68 A | 1.01 | 0.55 | 97 | 1.4 | 9 | -20/-29 |
| F54T5/WM | 2 | 120 | 133 | 0.58 A | 0.96 | 0.72 | 99 | 1.4 | 7 | -20/-29 |
| | 2 | 277 | 132 | 0.50 A | 0.96 | 0.72 | 95 | 1.4 | 15 | -20/-29 |
| | 1 | 120 | 69 | 0.58 A | 1.11 | 1.61 | 99 | 1.4 | 10 | -20/-29 |
| | 1 | 277 | 70 | 0.30 A | 1.11 | 1.59 | 85 | 1.4 | 26 | -20/-29 |

Safety and performance Product is compliant with material restriction requirements of RoHS UL Type 1 Outdoor UL Type HL FCC – CLASS A Non-Consumer ANSI-C62.41-1991

ANSI-C82.11-Cons 2002 UL Class P UL Type CC UL Listed CSA

High Temperature Rated: Suitable for high temperature applications 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty

Ballasts
T8 Instant Start
T8 Programmed Start
T8/T5 Dimming
T5 Electronic Programmed Start
T12 Electronic & High Output
Magnetic
Sign
Compact Fluorescent
HID Electronic & Electromagnetic

T5 High Output – Programmed Start

T5 Electronic Programmed Start For T5 HO Lamps*

72280 – GE180MVPS-D

T5 High Output - UltraStart® Programmed Start

1 – F80T5HO 120 to 277 UltraStart® PRS D Can

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- Multi-Voltage technology means a single ballast handles voltage from 108V to 305V
- Auto-Restart withstands temporary losses in power without the need to cycle power
- Anti-Striation Control for better light quality, with no striations.
- Cold temperature -20°F Minimum Starting Temperature

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic - Program / Rapid Start |
| Starting Method | Programmed start |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, End of Life Protection (EOL), Thermally protected, Universal voltage |

Dimensions

Wiring diagram – LFL PS1b – see example on page 13-18

Case dimensions – Ref Drawing - D Can – see page 13-19

| | |
|----------------------------------|------------------|
| Length (L) | 16.7 in (424 mm) |
| Width (W) | 1.18 in (30 mm) |
| Height (H) | 1.0 in (25 mm) |
| Mounting dimensions | |
| Mount Length (M) | 16.4 in (417 mm) |
| Weight | 1.85 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 8 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Electrical characteristics

| | |
|--------------------------|------------|
| Supply Current Frequency | 50Hz/60 Hz |
|--------------------------|------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 72280 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|---------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F80T5HO | 1 | 120 | 93 | 0.78 A | 1.00 | 1.08 | 99 | 1.6 | 5 | -20/-29 |
| | 1 | 277 | 91 | 0.34 A | 1.00 | 1.10 | 98 | 1.6 | 8 | -20/-29 |

Safety and performance

Product is compliant with material restriction requirements of RoHS  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer ANSI-C62.41-1991

ANSI-C82.11-Cons 2002



T5 Watt-Miser Electronic Program / Rapid Start Ballast

T5 Electronic Programmed Start

62728 – GE254PS347/480-F

T5 High Output - UltraStart® Programmed Rapid Start

2 or 1 – F54T5HO 347 to 480V PS High Temperature F Can LFL

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- GE 3-Stage 3G Transient Suppression - Meets IEEE/ANSI C Low line to line transient capability up to 6KV
- Auto-Restart withstands temporary losses in power without the need to cycle power
- Anti-Striation Control for better light quality, with no striations.
- 90°C case rating/UL Approved 55C Ambient Rating
- Individual lamp End of Lamp Life protection - only one lamp shuts down at end of life
- Cold temperature -20°F Minimum Starting Temperature

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Program / Rapid Start |
| Starting Method | Programmed Rapid Start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal Can |
| Additional Info | Lamp End-of-Life Safety Shutdown Circuit/Auto-restart/ Anti-striation control |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 62728 | | | |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|---|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F54T5/HO | 2 | 347 | 118 | 0.36 A | 1.00 | 1.69 | 98 | 1.4 | 5 | -22/-30 | |
| | 2 | 480 | 118 | 0.26 A | 1.00 | 1.69 | 99 | 1.4 | 6 | -22/-30 | |
| | 1 | 347 | 73 | 0.22 A | 1.10 | 1.37 | 98 | 1.4 | 5 | -22/-30 | |
| | 1 | 480 | 73 | 0.16 A | 1.10 | 1.37 | 96 | 1.4 | 8 | -22/-30 | |
| | 2 | 347 | 113 | 0.33 A | 1.06 | 1.77 | 99 | 1.4 | 5 | 0/-18 | |
| | 2 | 480 | 114 | 0.24 A | 1.06 | 1.75 | 97 | 1.4 | 6 | 0/-18 | |
| FT50W/2G11 | 1 | 347 | 69 | 0.20 A | 1.18 | 1.45 | 98 | 1.4 | 5 | 0/-18 | |
| | 1 | 480 | 69 | 0.15 A | 1.18 | 1.45 | 95 | 1.4 | 8 | 0/-18 | |
| | 2 | 347 | 113 | 0.33 A | 1.00 | 1.77 | 99 | 1.4 | 5 | 0/-18 | |
| | 2 | 480 | 113 | 0.24 A | 1.00 | 1.77 | 97 | 1.4 | 6 | 0/-18 | |
| | 1 | 347 | 69 | 0.20 A | 1.12 | 1.45 | 98 | 1.4 | 6 | 0/-18 | |
| | 1 | 480 | 69 | 0.15 A | 1.12 | 1.43 | 95 | 1.4 | 8 | 0/-18 | |
| F54T5/WM | 2 | 347 | 109 | 0.32 A | 0.86 | 1.83 | 99 | 1.4 | 5 | 0/-18 | |
| | 2 | 480 | 109 | 0.24 A | 0.86 | 1.83 | 97 | 1.4 | 6 | 0/-18 | |
| | 1 | 347 | 68 | 0.20 A | 1.03 | 1.47 | 98 | 1.4 | 6 | 0/-18 | |
| | 1 | 480 | 68 | 0.15 A | 1.03 | 1.47 | 95 | 1.4 | 8 | 0/-18 | |
| | 2 | 347 | 107 | 0.31 A | 1.00 | 1.87 | 99 | 1.4 | 5 | 0/-18 | |
| | 2 | 480 | 107 | 0.23 A | 1.00 | 1.87 | 97 | 1.4 | 6 | 0/-18 | |
| F54T5/49W | 1 | 347 | 65 | 0.19 A | 1.10 | 1.56 | 98 | 1.4 | 5 | 0/-18 | |
| | 1 | 480 | 65 | 0.14 A | 1.10 | 1.54 | 95 | 1.4 | 8 | 0/-18 | |
| | 2 | 347 | 104 | 0.31 A | 1.00 | 1.92 | 99 | 1.4 | 5 | 0/-18 | |
| | 2 | 480 | 104 | 0.22 A | 1.00 | 1.92 | 97 | 1.4 | 6 | 0/-18 | |
| | 1 | 347 | 63 | 0.19 A | 1.10 | 1.59 | 98 | 1.4 | 6 | 0/-18 | |
| | 1 | 480 | 64 | 0.14 A | 1.10 | 1.56 | 95 | 1.4 | 8 | 0/-18 | |
| F54T5/47W | 2 | 347 | 101 | 0.33 A | 0.95 | 1.98 | 99 | 1.4 | 5 | -22/-30 | |
| | 2 | 480 | 10 | 0.24 A | 0.95 | 1.98 | 97 | 1.4 | 6 | -22/-30 | |
| | 1 | 347 | 68 | 0.20 A | 1.08 | 1.47 | 98 | 1.4 | 6 | -22/-30 | |
| | 1 | 480 | 69 | 0.15 A | 1.08 | 1.45 | 95 | 1.4 | 6 | -22/-30 | |
| | <p>Safety and performance Product is compliant with material restriction requirements of RoHS UL Type 1 Outdoor UL Type HL FCC - CLASS A Non-Consumer ANSI-C62.41-1991 ANSI-C82.11-Cons 2002</p> <p>ANSI-C62.41-2002 UL Class P UL Type CC UL 55C Ambient Approved CSA</p> <p>High Temperature Rated: Suitable for high temperature applications No PCB's 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty</p> | | | | | | | | | | |

| Dimensions | |
|--|-------------------|
| Wiring diagram – LFL 4a – see example on page 13-17 | |
| Case dimensions – Ref Drawing – F Can – see page 13-19 | |
| Length (L) | 11.8 in (298 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.1 in (282 mm) |
| Weight | 2.15 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 12 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in.) |
| Black | 25.0 in (635 mm) |
| Black/White | 25.0 in (635 mm) |
| Blue | 34.0 in (864 mm) |
| Red | 34.0 in (864 mm) |
| Yellow | 45.0 in (1143 mm) |

T5 Watt-Miser Electronic Program / Rapid Start Ballast

T5 Electronic Programmed Start

62729 – GE254PS347-F

T5 High Output - UltraStart® Programmed Rapid Start

2 or 1 – F54T5HO 347V F Can LFL

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- Auto-Restart withstands temporary losses in power without the need to cycle power
- Anti-Striation Control for better light quality, with no striations.
- 90°C case rating/UL Approved 55C Ambient Rating
- Individual lamp End of Lamp Life protection - only one lamp shuts down at end of life
- Cold temperature -20°F Minimum Starting Temperature

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic - Program / Rapid Start |
| Starting Method | Programmed Rapid Start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal Can |
| Additional Info | Lamp End-of-Life Safety Shutdown Circuit/Auto-restart/ Anti-striation control |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 62729 | | | |

Dimensions

Wiring diagram - LFL 4a - see example on page 13-17

Case dimensions - Ref Drawing - F Can - see page 13-19

| | |
|------------|------------------|
| Length (L) | 11.8 in (298 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |

Mounting dimensions

| | |
|------------------|------------------|
| Mount Length (M) | 11.1 in (282 mm) |
| Weight | 2.15 lbs |
| Exit Type | Side |

| | |
|----------------------------------|--------|
| Remote Mounting Distance to Lamp | 12 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths





| | |
|-------------|-------------------|
| | Length (± 1 in.) |
| Black | 25.0 in (635 mm) |
| Black/White | 25.0 in (635 mm) |
| Blue | 34.0 in (864 mm) |
| Red | 34.0 in (864 mm) |
| Yellow | 45.0 in (1143 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (*F/*C) |
|------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F54T5/HO | 2 | 347 | 118 | 0.36 A | 1.00 | 1.69 | 99 | 1.4 | 5 | -22/-30 |
| | 1 | 347 | 73 | 0.22 A | 1.10 | 1.37 | 98 | 1.4 | 5 | -22/-30 |
| FT50W/2G11 | 2 | 347 | 113 | 0.33 A | 1.06 | 1.77 | 99 | 1.4 | 5 | 0/-18 |
| | 1 | 347 | 69 | 0.20 A | 1.18 | 1.45 | 98 | 1.4 | 5 | 0/-18 |
| F54T5/WM | 2 | 347 | 113 | 0.33 A | 1.00 | 1.77 | 99 | 1.4 | 5 | -22/-30 |
| | 1 | 347 | 69 | 0.20 A | 1.12 | 1.45 | 98 | 1.4 | 6 | -22/-30 |
| FT55W/4P | 2 | 347 | 109 | 0.32 A | 0.86 | 1.83 | 99 | 1.4 | 5 | 0/-18 |
| | 1 | 347 | 68 | 0.20 A | 1.03 | 1.47 | 98 | 1.4 | 6 | 0/-18 |
| F54T5/49W | 2 | 347 | 107 | 0.31 A | 1.00 | 1.87 | 99 | 1.4 | 5 | 0/-18 |
| | 1 | 347 | 64 | 0.19 A | 1.10 | 1.56 | 98 | 1.4 | 6 | 0/-18 |
| F54T5/47W | 2 | 347 | 104 | 0.31 A | 1.00 | 1.92 | 99 | 1.4 | 5 | 0/-18 |
| | 1 | 347 | 63 | 0.19 A | 1.10 | 1.59 | 98 | 1.4 | 6 | 0/-18 |
| F58T8 | 2 | 347 | 101 | 0.33 A | 0.95 | 1.98 | 99 | 1.4 | 5 | -22/-30 |
| | 1 | 347 | 68 | 0.20 A | 1.08 | 1.47 | 98 | 1.4 | 6 | -22/-30 |

Safety and performance

Product is compliant with material restriction requirements of RoHS  UL Type 1 Outdoor  UL Type HL FCC - CLASS A Non-Consumer ANSI-C62.41-1991 ANSI-C82.11-Cons 2002

ANSI-C62.41-2002  UL Class P  UL Type CC  UL 55C Ambient Approved  CSA

High Temperature Rated: Suitable for high temperature applications No PCB's 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty

TT5 Watt-Miser Electronic Program / Rapid Start Ballast

T5 Electronic Programmed Start

62730 – GE454PS347/480-E

T5 High Output - UltraStart® Programmed Rapid Start

4-1 - F54T5HO 347 to 480V High Temperature E Can LFL

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- GE 3-Stage 3G Transient Suppression - Meets IEEE/ANSI C Low line to line transient capability up to 6KV
- Auto-Restart withstands temporary losses in power without the need to cycle power
- Anti-Striation Control for better light quality, with no striations.
- 90°C case rating/UL Approved 55C Ambient Rating
- Individual lamp End of Lamp Life protection - only one lamp shuts down at end of life
- Cold temperature -20°F Minimum Starting Temperature

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Program / Rapid Start |
| Starting Method | Programmed Rapid Start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal Can |
| Additional Info | Lamp End-of-Life Safety Shutdown Circuit/Auto-restart/ Anti-striation control |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 8 Pack | Pallet Pack | DIY Pack | IP Pack |
| 62730 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|----------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F54T5/HO | 4 | 347 | 229 | 0.68 A | 1.00 | 1.75 | 99 | 1.4 | 5 | -22/-30 |
| | 4 | 480 | 228 | 0.49 A | 1.00 | 1.75 | 98 | 1.4 | 7 | -22/-30 |
| | 3 | 347 | 176 | 0.53 A | 1.01 | 1.70 | 99 | 1.4 | 5 | -22/-30 |
| | 3 | 480 | 177 | 0.38 A | 1.01 | 1.69 | 98 | 1.4 | 8 | -22/-30 |
| | 2 | 347 | 125 | 0.37 A | 0.96 | 1.60 | 99 | 1.4 | 7 | -22/-30 |
| | 2 | 480 | 125 | 0.27 A | 0.96 | 1.60 | 96 | 1.4 | 12 | -22/-30 |
| | 1 | 347 | 68 | 0.21 A | 1.12 | 1.47 | 94 | 1.4 | 16 | -22/-30 |
| | 1 | 480 | 69 | 0.18 A | 1.12 | 1.45 | 81 | 1.4 | 35 | -22/-30 |
| | 4 | 347 | 227 | 0.68 A | 1.06 | 1.76 | 99 | 1.4 | 5 | 0/-18 |
| | 4 | 480 | 226 | 0.49 A | 1.06 | 1.77 | 98 | 1.4 | 7 | 0/-18 |
| | 3 | 347 | 177 | 0.53 A | 1.11 | 1.69 | 99 | 1.4 | 5 | 0/-18 |
| | 3 | 480 | 177 | 0.38 A | 1.11 | 1.69 | 98 | 1.4 | 8 | 0/-18 |
| FT50W/4P | 2 | 347 | 126 | 0.37 A | 1.59 | 1.59 | 99 | 1.4 | 6 | 0/-18 |
| | 2 | 480 | 126 | 0.28 A | 1.59 | 1.59 | 96 | 1.4 | 12 | 0/-18 |
| | 1 | 347 | 69 | 0.22 A | 1.47 | 1.47 | 94 | 1.4 | 16 | 0/-18 |
| | 1 | 480 | 69 | 0.19 A | 1.45 | 1.45 | 80 | 1.4 | 34 | 0/-18 |
| | 4 | 347 | 221 | 0.66 A | 0.86 | 1.81 | 99 | 1.4 | 5 | 0/-18 |
| | 4 | 480 | 220 | 0.47 A | 0.86 | 1.82 | 98 | 1.4 | 7 | 0/-18 |
| | 3 | 347 | 173 | 0.51 A | 0.91 | 1.73 | 99 | 1.4 | 5 | 0/-18 |
| | 3 | 480 | 173 | 0.37 A | 0.91 | 1.73 | 98 | 1.4 | 8 | 0/-18 |
| | 2 | 347 | 123 | 0.37 A | 1.63 | 1.63 | 99 | 1.4 | 7 | 0/-18 |
| | 2 | 480 | 123 | 0.27 A | 1.24 | 1.61 | 96 | 1.4 | 12 | 0/-18 |
| | 1 | 347 | 68 | 0.22 A | 1.47 | 1.47 | 92 | 1.4 | 19 | 0/-18 |
| | 1 | 480 | 69 | 0.19 A | 1.45 | 1.45 | 77 | 1.4 | 40 | 0/-18 |
| FT55W/4P | 4 | 347 | 219 | 0.65 A | 1.00 | 1.83 | 99 | 1.4 | 5 | 0/-18 |
| | 4 | 480 | 218 | 0.47 A | 1.00 | 1.83 | 98 | 1.4 | 7 | 0/-18 |
| | 3 | 347 | 171 | 0.51 A | 1.01 | 1.75 | 99 | 1.4 | 5 | 0/-18 |
| | 3 | 480 | 171 | 0.37 A | 1.01 | 1.75 | 98 | 1.4 | 8 | 0/-18 |
| | 2 | 347 | 121 | 0.36 A | 0.96 | 1.65 | 99 | 1.4 | 6 | 0/-18 |
| | 2 | 480 | 122 | 0.27 A | 0.96 | 1.64 | 96 | 1.4 | 12 | 0/-18 |
| | 1 | 347 | 66 | 0.21 A | 1.12 | 1.52 | 94 | 1.4 | 14 | 0/-18 |
| | 1 | 480 | 67 | 0.17 A | 1.12 | 1.49 | 82 | 1.4 | 37 | 0/-18 |
| | 4 | 347 | 209 | 0.62 A | 0.95 | 1.91 | 99 | 1.4 | 5 | -22/-30 |
| | 4 | 480 | 208 | 0.45 A | 0.95 | 1.92 | 98 | 1.4 | 7 | -22/-30 |
| | 3 | 347 | 164 | 0.49 A | 0.99 | 1.83 | 99 | 1.4 | 5 | -22/-30 |
| | 3 | 480 | 165 | 0.36 A | 0.99 | 1.82 | 97 | 1.4 | 8 | -22/-30 |
| F54T5/WM | 2 | 347 | 117 | 0.35 A | 0.96 | 1.71 | 99 | 1.4 | 6 | -22/-30 |
| | 2 | 480 | 118 | 0.26 A | 0.96 | 1.69 | 96 | 1.4 | 12 | -22/-30 |
| | 1 | 347 | 65 | 0.20 A | 1.12 | 1.54 | 97 | 1.4 | 9 | -22/-30 |
| | 1 | 480 | 66 | 0.15 A | 1.12 | 1.52 | 91 | 1.4 | 16 | -22/-30 |
| | 4 | 347 | 206 | 0.63 A | 1.00 | 1.94 | 99 | 1.4 | 5 | 0/-18 |
| | 4 | 480 | 205 | 0.44 A | 1.00 | 1.95 | 98 | 1.4 | 7 | 0/-18 |
| | 3 | 347 | 161 | 0.48 A | 1.04 | 1.86 | 99 | 1.4 | 5 | 0/-18 |
| | 3 | 480 | 162 | 0.35 A | 1.04 | 1.85 | 97 | 1.4 | 8 | 0/-18 |
| | 2 | 347 | 117 | 0.35 A | 1.06 | 1.71 | 99 | 1.4 | 6 | 0/-18 |
| | 2 | 480 | 118 | 0.26 A | 1.06 | 1.69 | 96 | 1.4 | 12 | 0/-18 |
| | 1 | 347 | 65 | 0.20 A | 1.08 | 1.54 | 97 | 1.4 | 10 | 0/-18 |
| | 1 | 480 | 66 | 0.15 A | 1.08 | 1.52 | 90 | 1.4 | 18 | 0/-18 |

Safety and performance

Product is compliant with material restriction requirements of RoHS UL Type 1 Outdoor UL Type HL FCC - CLASS A Non-Consumer ANSI-C62.41-1991 ANSI-C82.11-Cons 2002

ANSI-C62.41-2002 UL Class P UL Type CC UL 55C Ambient Approved

High Temperature Rated: Suitable for high temperature applications No PCB's

T5 Watt-Miser Electronic Program / Rapid Start Ballast

T5 Electronic Programmed Start

62731 – GE454PS347-E

T5 High Output - UltraStart® Programmed Rapid Start

4-1 - F54T5HO 347V LFL E Can

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- Auto-Restart withstands temporary losses in power without the need to cycle power
- Anti-Striation Control for better light quality, with no striations.
- 90°C case rating/UL Approved 55C Ambient Rating
- Individual lamp End of Lamp Life protection - only one lamp shuts down at end of life
- Cold temperature -20°F Minimum Starting Temperature

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Program / Rapid Start |
| Starting Method | Programmed Rapid Start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal Can |
| Additional Info | Lamp End-of-Life Safety Shutdown Circuit/Auto-restart/ Anti-striation control |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 8 Pack 62731 | Pallet Pack | DIY Pack | IP Pack |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 4b – see example on page 13-17 | |
| Case dimensions – Ref Drawing - E Can – see page 13-19 | |
| Length (L) | 16.7 in (424 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 16.1 in (409 mm) |
| Weight | 2.5 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 12 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Length (± 1 in.) | |
| Black | 25.0 in (635 mm) |
| White | 25.0 in (635 mm) |
| Blue | 34.0 in (864 mm) |
| Blue/White | 34.0 in (864 mm) |
| Red | 34.0 in (864 mm) |
| Red/White | 34.0 in (864 mm) |
| Yellow | 35.0 in (889 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F54T5/HO | 4 | 347 | 229 | 0.68 A | 1.00 | 1.75 | 99 | 1.4 | 5 | -22/-30 |
| | 3 | 347 | 176 | 0.53 A | 1.01 | 1.70 | 99 | 1.4 | 5 | -22/-30 |
| | 2 | 347 | 125 | 0.37 A | 0.96 | 1.60 | 99 | 1.4 | 7 | -22/-30 |
| | 1 | 347 | 68 | 0.21 A | 1.12 | 1.47 | 94 | 1.4 | 16 | -22/-30 |
| FT50W/4P | 4 | 347 | 227 | 0.68 A | 1.06 | 1.76 | 99 | 1.4 | 5 | 0/-18 |
| | 3 | 347 | 177 | 0.53 A | 1.11 | 1.69 | 99 | 1.4 | 5 | 0/-18 |
| | 2 | 347 | 126 | 0.37 A | | 1.59 | 99 | 1.4 | 6 | 0/-18 |
| | 1 | 347 | 69 | 0.22 A | | 1.47 | 94 | 1.4 | 16 | 0/-18 |
| FT55W/4P | 4 | 347 | 221 | 0.66 A | 0.86 | 1.81 | 99 | 1.4 | 5 | 0/-18 |
| | 3 | 347 | 173 | 0.51 A | 0.91 | 1.73 | 99 | 1.4 | 5 | 0/-18 |
| | 2 | 347 | 123 | 0.37 A | | 1.63 | 99 | 1.4 | 7 | 0/-18 |
| | 1 | 347 | 68 | 0.22 A | | 1.47 | 92 | 1.4 | 19 | 0/-18 |
| F54T5/WM | 4 | 347 | 219 | 0.65 A | 1.00 | 1.83 | 99 | 1.4 | 5 | 0/-18 |
| | 3 | 347 | 171 | 0.51 A | 1.01 | 1.75 | 99 | 1.4 | 5 | 0/-18 |
| | 2 | 347 | 121 | 0.36 A | 0.96 | 1.65 | 99 | 1.4 | 6 | 0/-18 |
| | 1 | 347 | 66 | 0.21 A | 1.12 | 1.52 | 94 | 1.4 | 14 | 0/-18 |
| F58T8 | 4 | 347 | 209 | 0.62 A | 0.95 | 1.91 | 99 | 1.4 | 5 | -22/-30 |
| | 3 | 347 | 164 | 0.49 A | 0.99 | 1.83 | 99 | 1.4 | 5 | -22/-30 |
| | 2 | 347 | 117 | 0.35 A | 0.96 | 1.71 | 99 | 1.4 | 6 | -22/-30 |
| | 1 | 347 | 65 | 0.20 A | 1.12 | 1.54 | 97 | 1.4 | 9 | -22/-30 |
| F54T5/47W | 4 | 347 | 206 | 0.63 A | 1.00 | 1.94 | 99 | 1.4 | 5 | 0/-18 |
| | 3 | 347 | 161 | 0.48 A | 1.04 | 1.86 | 99 | 1.4 | 5 | 0/-18 |
| | 2 | 347 | 117 | 0.35 A | 1.06 | 1.71 | 99 | 1.4 | 6 | 0/-18 |
| 1 | 347 | 65 | 0.20 A | 1.08 | 1.54 | 97 | 1.4 | 10 | 0/-18 | |

Safety and performance Product is compliant with material restriction requirements of RoHS UL Type 1 Outdoor UL Type HL FCC – CLASS A Non-Consumer ANSI-C62.41-1991 ANSI-C82.11-Cons 2002
 ANSI-C62.41-2002 UL Class P UL Type CC UL 55C Ambient Approved
 High Temperature Rated: Suitable for high temperature applications No PCB's 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty

Step Down Transformers

T5 Electronic Programmed Start Ballasts

74119 – GETR480/277-250W

Step Down Transformers

Non-Isolated Autotransformer 480 to 277V, <250 Watts (VA), A Can

- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity.
- Non-Isolated Autotransformer designed specifically for lighting applications to step down 480V to 277V
- For use with one or more electronic 277V or universal voltage ballasts within max total system power of autotransformer
- 480Vrms Input, 60Hz Only, 277Vrms Full Load Output or 347Vrms Input
- For loads with total system power <250VA
- Internal Auto Reset Thermal Protector Rated 100C
- For use on single phase or ground referred systems
- Five Year Limited Warranty
- 93% electrical efficiency

| General characteristics | |
|-------------------------|------------------------|
| Ballast Type | Magnetic - Core & Coil |
| Case Temperature (MAX) | 100°C (212°F) |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Thermally protected |

| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74119 | | | |

| Specifications by lamp and wattage | |
|------------------------------------|--|
| Line Volts | |
| 480V to 277V | |
| 347V to 200V | |

Safety and performance  UL Type 1 Outdoor  UL Listed  UL Listed Autotransformer  cUL US cUL

| Dimensions | |
|---|-------------------------|
| Wiring diagram – TR1 – see example on page 13-18 | |
| Case dimensions – Ref Drawing – A Can – see page 13-19 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Exit Type | Side |
| Remote Mounting Wire Gauge | 14 AWG |
| Lead lengths | |
| | Length (± 1 in.) |
| Black | 14.0 in (356 mm) |
| Blue | 14.0 in (356 mm) |
| Red | 14.0 in (356 mm) |

74120 – GETR480/277-375W

Step Down Transformers

Non-Isolated Autotransformer 480 to 277V, <375 Watts (VA), F Can

- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity.
- Non-Isolated Autotransformer designed specifically for lighting applications to step down 480V to 277V
- For use with one or more electronic 277V or universal voltage ballasts within max total system power of autotransformer
- 480Vrms Input, 60Hz Only, 277Vrms Full Load Output or 347Vrms Input
- For loads with total system power <375VA
- Internal Auto Reset Thermal Protector Rated 100C
- For use on single phase or ground referred systems
- Five Year Limited Warranty
- 93% electrical efficiency

| General characteristics | |
|-------------------------|------------------------|
| Ballast Type | Magnetic - Core & Coil |
| Case Temperature (MAX) | 100°C (212°F) |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Thermally protected |

| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74120 | | | |

| Specifications by lamp and wattage | |
|------------------------------------|--|
| Line Volts | |
| 480V to 277V | |
| 347V to 200V | |

Safety and performance  UL Type 1 Outdoor  UL Listed  cUL US cUL

| Dimensions | |
|---|-------------------------|
| Wiring diagram – TR1 – see example on page 13-18 | |
| Case dimensions – Ref Drawing – F Can – see page 13-19 | |
| Length (L) | 11.75 in (299 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Exit Type | Side |
| Remote Mounting Wire Gauge | 14 AWG |
| Lead lengths | |
| | Length (± 1 in.) |
| Black | 14.0 in (356 mm) |
| Blue | 14.0 in (356 mm) |
| Red | 14.0 in (356 mm) |

Step Down Transformers

T5 Electronic Programmed Start Ballasts

85857 - GETR277/120-175W

Step Down Transformers

Non-Isolated Autotransformer 277 to 120V, <175 Watts (VA), A Can

| General characteristics | |
|-------------------------|------------------------|
| Ballast Type | Magnetic - Core & Coil |
| Case Temperature (MAX) | 100°C (212°F) |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Thermally protected |

| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 6 Pack | Pallet Pack | DIY Pack | IP Pack |
| 85857 | | | |

| Specifications by lamp and wattage | | |
|------------------------------------|------------|------------|
| Lamp | # of Lamps | Line Volts |
| F54T5/HO | 1 | 277 |
| F32T8 | 1 | 277 |

Safety and performance  UL Environmental Type 1 Enclosure  UL Listed  UL Listed Autotransformer

- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity.
- Non-Isolated Autotransformer designed specifically for lighting applications to step down 277V to 120V.
- For use with one or more electronic 120V or universal voltage ballasts within max total system power of autotransformer.
- 277Vrms Input, 60Hz Only, 120Vrms Full Load Output
- For loads with total system power <175VA
- Internal Auto Reset Thermal Protector Rated 100°C
- For use on single phase
- Five Year Limited Warranty
- 93% electrical efficiency

| Dimensions | |
|---|-------------------------|
| Wiring diagram - TR1 - see example on page 13-18 | |
| Case dimensions - Ref Drawing - A Can - see page 13-19 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30.5 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.1 in (29 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Exit Type | Side |
| Remote Mounting Wire Gauge | 14 AWG |
| Lead lengths | |
| | Length (± 1 in.) |
| Black | 14.0 in (356 mm) |
| Blue | 14.0 in (356 mm) |
| Red | 14.0 in (356 mm) |

90896 - GETR347/277-375W

Step Down Transformers

Non-Isolated Autotransformer 347 to 277V, <375 Watts (VA), F Can

| General characteristics | |
|-------------------------|------------------------|
| Ballast Type | Magnetic - Core & Coil |
| Case Temperature (MAX) | 100°C (212°F) |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Thermally protected |

| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 6 Pack | Pallet Pack | DIY Pack | IP Pack |
| 90896 | | | |

| Specifications by lamp and wattage | | |
|------------------------------------|------------|------------|
| Lamp | # of Lamps | Line Volts |
| F54T5/HO | 1 | 347 |
| F32T8 | 1 | 347 |

Safety and performance  UL Environmental Type 1 Enclosure  UL Listed  UL Listed Autotransformer

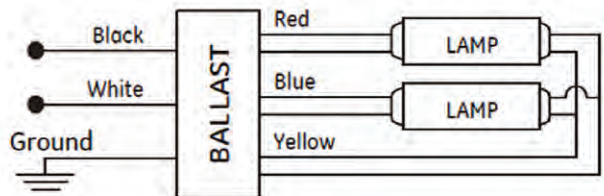
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity.
- Non-Isolated Autotransformer designed specifically for lighting applications to step down 347V to 277V.
- For use with one or more electronic 277V or universal voltage ballasts within max total system power of autotransformer.
- 347Vrms Input, 60Hz Only, 277Vrms Full Load Output
- For loads with total system power <375VA
- Internal Auto Reset Thermal Protector Rated 100°C
- For use on single phase
- Five Year Limited Warranty
- 93% electrical efficiency

| Dimensions | |
|---|-------------------------|
| Wiring diagram - TR1 - see example on page 13-18 | |
| Case dimensions - Ref Drawing - F Can - see page 13-19 | |
| Length (L) | 11.8 in (298.5 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30.5 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.2 in (6 mm) |
| Exit Type | Side |
| Remote Mounting Wire Gauge | 14 AWG |
| Lead lengths | |
| | Length (± 1 in.) |
| Black | 14.0 in (356 mm) |
| Blue | 14.0 in (356 mm) |
| Red | 14.0 in (356 mm) |

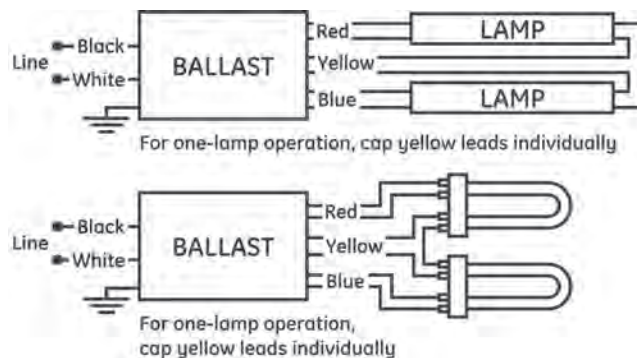
Wiring Diagrams

T5 Electronic Programmed Start Ballasts

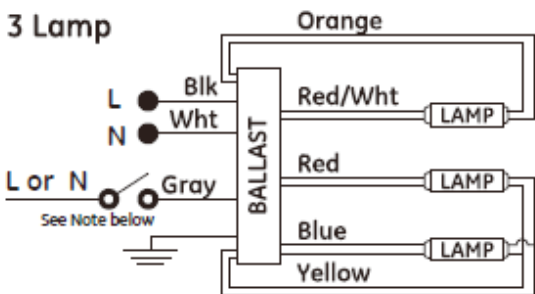
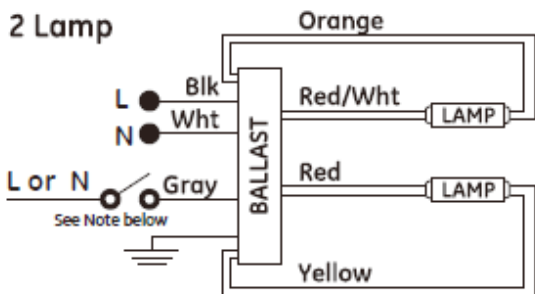
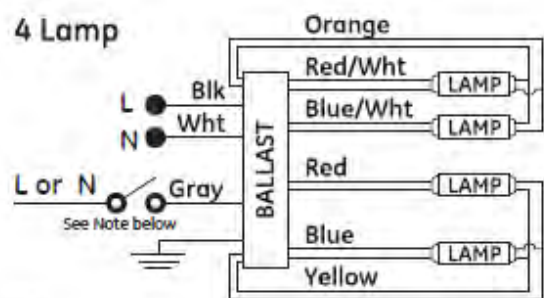
LFL 4a



LFL 4b

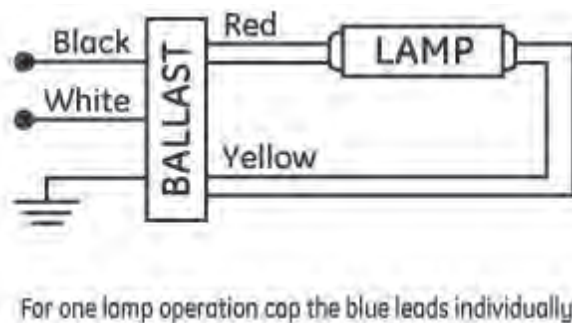


LFL 4c



Note:
Connect gray wire to line or neutral for full output with all lamps on. Leave gray wire open for dimmed output, only lamps connected to Red-White and Blue-White will be operated. Use dry contact switch or relay for high/low control.

T51



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

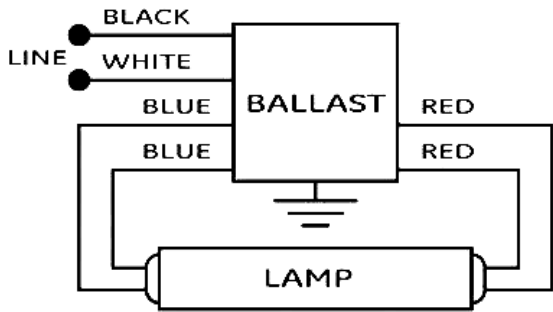
Compact Fluorescent

HID Electronic & Electromagnetic

Wiring Diagrams

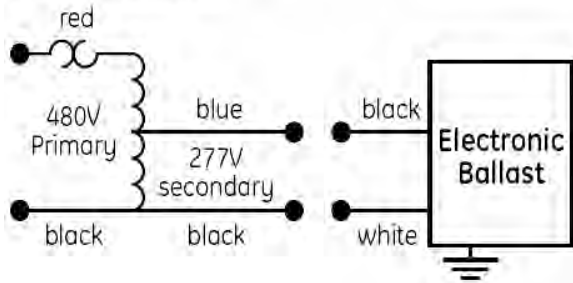
T5 Electronic Programmed Start Ballasts

LFL PS1b



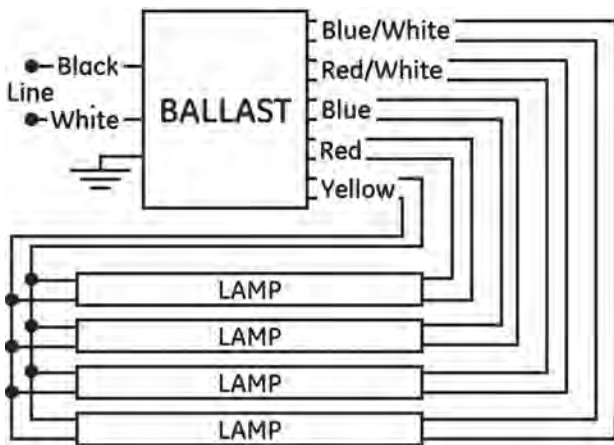
TR1

Autotransformer

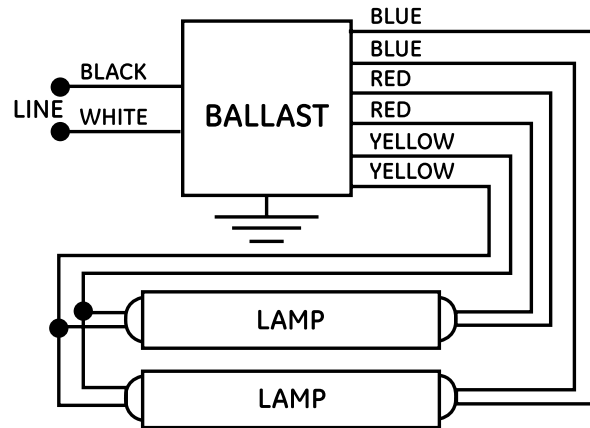


Grounded 277V, 347V or 480V systems only

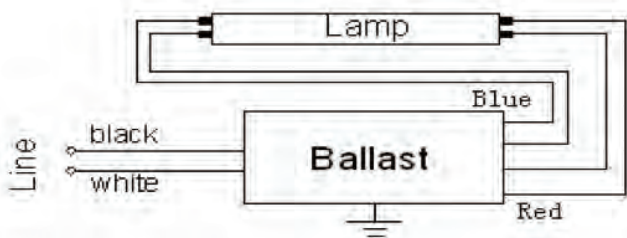
LFL PS4



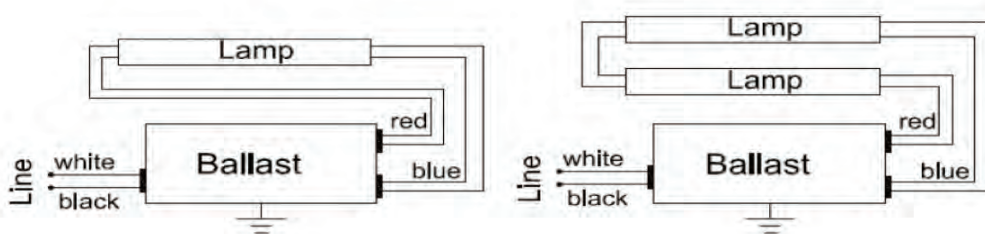
LFL 2a



LFL 1a



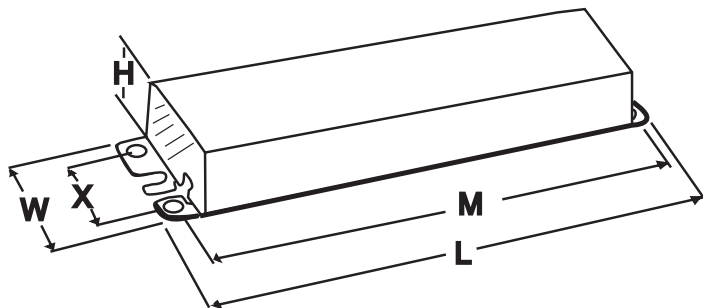
LFL 1b



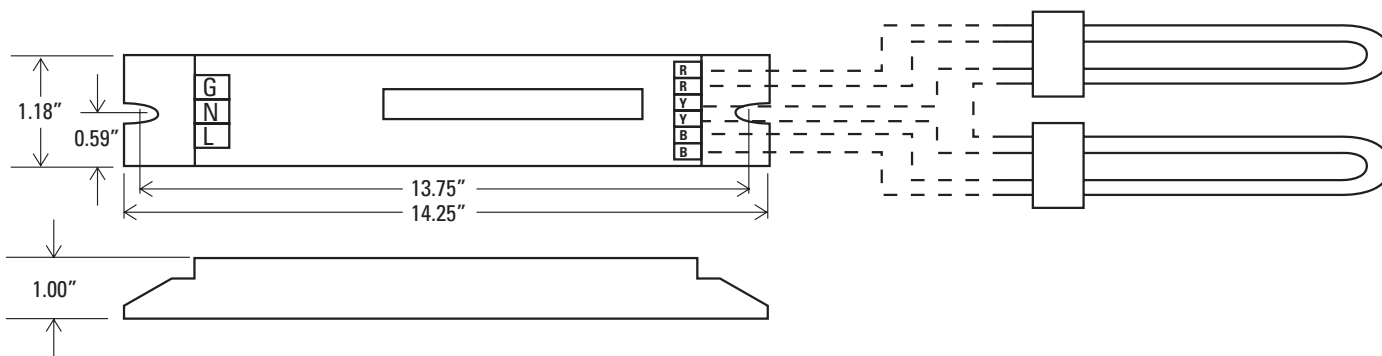
Case Dimensions

T5 Electronic Programmed Start Ballasts

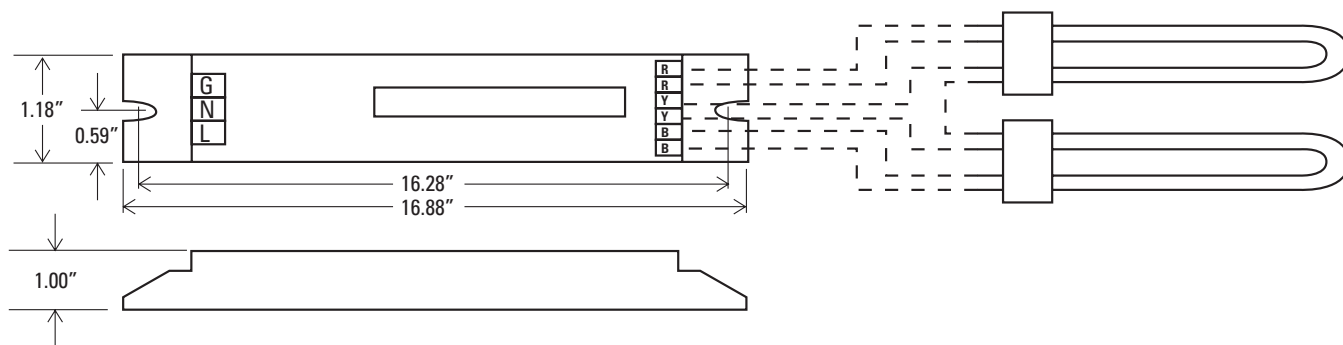
-A Can, -E, -F, -G



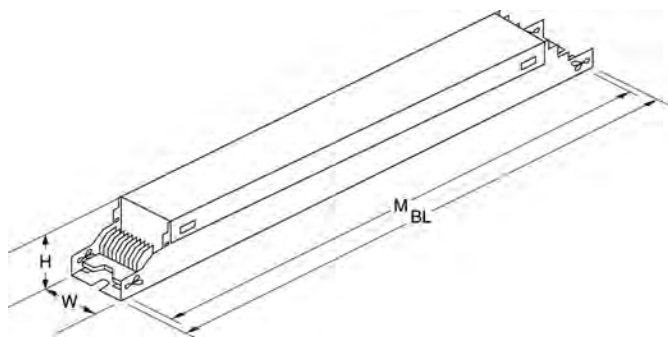
-C Can



-D Can



-J



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

Table of Contents

T12 Electronic and High Output Ballasts

Understanding T12 Electronic Ballasts 14-2

ProLine® T12

 For F20 (2 ft), F30 (3 ft),
 F34/F40 (4 ft) T12 Lamps 14-3

 For T12 4 ft – 8 ft
 Slimline Lamps 14-4

T12 High Output..... 14-5

Wiring Diagrams..... 14-6

Case Dimensions 14-7

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

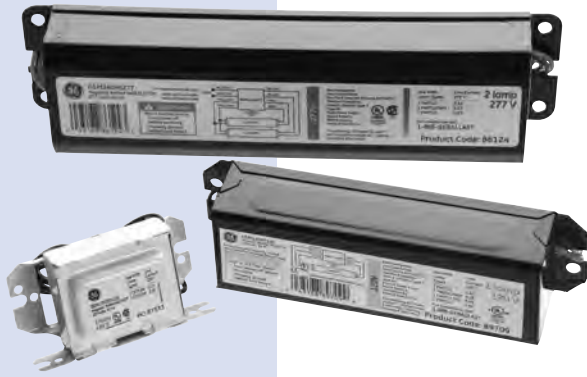
T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic



Understanding T12 Electronic Ballasts

Electronic T12

GE multivolt and dedicated voltage ProLine® T12 high-performance ballasts are designed for replacement of magnetic T12 electronic ballasts during maintenance or retrofits. GE multivolt ProLine® T12 ballasts have the same wiring and mounting requirements as standard magnetic ballasts and provide up to 20% energy savings by simply replacing the ballast.

The DOE ballast ruling effective April 1, 2005, prevents the sale of 4 foot and 8 foot lamp electromagnetic ballasts that operate T12 lamps and do not meet federal ballast efficiency requirements. GE ProLine® T12 electronic ballasts meet the DOE minimum ballast efficiency requirements and also allow facility managers to reduce ballast maintenance inventories by consolidating the number of ballasts needed. GE ProLine® T12 ballasts operate both energy-saving and standard wattage lamps and are also multi-voltage (120-277V). With 2 ballasts, the multi-voltage ProLine® T12 can consolidate over 40 different magnetic ballasts.

Performance Features

- GE240RSMVN and GE240RS120 comply with FCC for residential use
- Low-profile and lightweight housing simplifies installation and reduces transportation costs (GE240 = 1.3 lbs. lighter than magnetic; GE260 = 5.3 lbs. lighter than magnetic)
- Parallel operation — if one lamp fails, others remain lit
- Significantly quieter than magnetic
- High-frequency operation virtually eliminates lamp flickering typical in T12 electromagnetic systems
- Five-year limited ballast warranty

Electromagnetic T12

- Complete line of ballasts for 2-to-8 foot lamps, circleline and high-output lamps
- 100% thermally protected
- High-grade lamination steel assures lowest wattage loss
- UL, CSA and/or cUL approved
- 888-GEBALLAST on every ballast
- Two-year limited ballast warranty

Color-Coded Ballast and Outer Box Labels

120V – Yellow
277V – Red

Packaging

- Standard 10 packs
- IP Packs – individually packed with instructions
- DIY – shrink-wrapped and tray-packed with instructions

GE Ballast LFL magnetic nomenclature

| G E M - 2 3 2 - H O - R S - 1 2 0 - D I Y | | | | |
|--|--|---|--|--|
| GE Ballast M = Electromagnetic Ballast GEH = HID Maximum number of lamps supported by this ballast: 1, 2, 3, 4 | Lamp Watts (Primary Lamp) T8 = 32 – 4 foot, 59 – 8 foot T12 = 40 – 4 foot, 60 – 8 foot T12 Electronic = 40 – 2-4 foot, 2 pin 60 – 4-8 foot, 1 pin 96 – 4-8 foot HO, 2 pin T12 Magnetic = 40 – 2-4 foot, 2 pin 96 – 4-8 foot, 2 pin | IS = Instant Start, default if not shown RS = Rapid Start PH = Preheat PT= Preheat/Trigger H = Hybrid D50 = Dimming (min level) HO = High Output VHO = Very High Output | 120V – Yellow 277V – Red 220V – Green 240V – Orange 347 – Gray | Pack Type IP = Individual corrugated box per ballast 84T = Pallet bulk pack (84=840, 42=420 ballasts) DIY = Shrinkwrap ballast in tray pack DIV72 = Shrinkwrap ballast in pallet pack (Qty) No extension = 10 pack |



ProLine® T12

T12 Electronic and High Output Ballasts For F20 (2 ft), F30 (3 ft), F34/F40 (4 ft) T12 Lamps

74472 – GE240PS-MV-N (replaces 24107)

ProLine® T12 Multivolt 120V – 277V

2 or 1 – F40 or F34T12 Rapid Start 120 to 277 “N” BF ProLine® T12

- High-performance electronic ballast for all general fluorescent applications
- Multi-voltage technology handles voltage from 120 to 277V
- Light weight, low-profile housing
- Parallel lamp operation means system maintenance is easier to manage

General characteristics

| | |
|-------------------------------|--------------------------------------|
| Ballast Type | Electronic – Programmed/ Rapid Start |
| Starting Method | Rapid start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Thermally protected |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| Std. pack | Pallet Pack | DIY Pack | IP Pack |
|-----------|-------------|------------------------|---------|
| 74472 | | 74473 (replaces 24773) | |

Dimensions

Wiring diagram – LFL P52 – see example on page 14-6
Case dimensions – Ref Drawing B1 – see page 14-7

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.2 in (30 mm) |

Mounting dimensions

| | |
|----------------------------------|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.1 in (28 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.06 lbs |
| Exit Type | Side |
| Remote mounting distance to lamp | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| Lead Length | Length (± 1 in.) |
|-------------|-------------------|
| Yellow | 48.0 in (1219 mm) |
| Blue | 33.0 in (838 mm) |
| Red | 33.0 in (838 mm) |
| Black | 25.0 in (635 mm) |
| White | 25.0 in (635 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F40T12 | 2 | 120 | 74 | 0.67 A | 0.89 | 1.20 | 99 | 1.7 | 6 | 50/10 |
| | 2 | 277 | 73 | 0.30 A | 0.89 | 1.22 | 97 | 1.7 | 10 | 50/10 |
| | 1 | 120 | 48 | 0.41 A | | | 99 | 1.7 | 7 | 50/10 |
| | 1 | 277 | 48 | 0.19 A | | | 95 | 1.7 | 10 | 50/10 |
| | 2 | 120 | 75 | 0.63 A | 0.88 | 1.17 | 99 | 1.7 | 7 | 50/10 |
| | 2 | 277 | 72 | 0.27 A | 0.88 | 1.22 | 94 | 1.7 | 16 | 50/10 |
| F40T10 | 1 | 120 | 42 | 0.35 A | | | 99 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 42 | 0.17 A | | | 88 | 1.7 | 16 | 50/10 |
| | 2 | 120 | 63 | 0.56 A | 0.87 | 1.38 | 99 | 1.7 | 7 | 50/10 |
| F34T12 | 2 | 277 | 62 | 0.26 A | 0.87 | 1.40 | 96 | 1.7 | 10 | 50/10 |
| | 1 | 120 | 41 | 0.35 A | | | 99 | 1.7 | 8 | 50/10 |
| | 1 | 277 | 41 | 0.17 A | | | 94 | 1.7 | 11 | 50/10 |
| | 2 | 120 | 50 | 0.42 A | 0.95 | 1.90 | 99 | 1.7 | 9 | 50/10 |
| | 2 | 277 | 50 | 0.20 A | 0.95 | 1.90 | 91 | 1.7 | 18 | 50/10 |
| | 1 | 120 | 30 | 0.26 A | | | 99 | 1.7 | 12 | 50/10 |
| F30T12/WM | 1 | 277 | 30 | 0.13 A | | | 82 | 1.7 | 27 | 50/10 |
| | 2 | 120 | 60 | 0.31 A | 0.95 | 1.58 | 99 | 1.7 | 7 | 50/10 |
| | 2 | 277 | 58 | 0.22 A | 0.95 | 1.64 | 96 | 1.7 | 10 | 50/10 |
| F30T12 | 1 | 120 | 37 | 0.31 A | | | 99 | 1.7 | 8 | 50/10 |
| | 1 | 277 | 37 | 0.16 A | | | 94 | 1.7 | 11 | 50/10 |
| | 2 | 120 | 46 | 0.39 A | 1.00 | 2.17 | 99 | 1.7 | 8 | 50/10 |
| | 2 | 277 | 45 | 0.18 A | 1.00 | 2.22 | 94 | 1.7 | 11 | 50/10 |
| | 1 | 120 | 28 | 0.24 A | | | 99 | 1.7 | 9 | 50/10 |
| | 1 | 277 | 29 | 0.13 A | | | 92 | 1.7 | 17 | 50/10 |

Safety and performance



Product is compliant with material restriction requirements of RoHS

ProLine® T12

T12 Electronic and High Output Ballasts For T12 4 ft – 8 ft Slimline Lamps

74474 – GE-260IS-MV-N (replaces 24108)

ProLine® T12 Multivolt 120V – 277V

2 or 1 – F96T12 Instant Start 120 to 277

- High-performance electronic ballasts for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Lightweight, low-profile housing
- Parallel lamp operation means system maintenance is easier to manage

General characteristics

| | |
|-------------------------------|--------------------------------------|
| Ballast Type | Electronic - Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10 % |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70 °C (158 °F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Thermally protected |

Electrical characteristics

| | |
|--------------------------|------------|
| Supply Current Frequency | 50Hz/60 Hz |
|--------------------------|------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|------------------------|---------|
| 74474 | | 74475 (replaces 24776) | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F96T12/WMP | 2 | 120 | 107 | 0.94 A | 0.88 | 0.82 | 99 | 1.7 | 8 | 60/16 |
| | 2 | 277 | 106 | 0.40 A | 0.88 | 0.83 | 96 | 1.7 | 10 | 60/16 |
| | 1 | 120 | 68 | 0.60 A | 1.00 | 1.47 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 68 | 0.27 A | 1.00 | 1.47 | 95 | 1.7 | 12 | 60/16 |
| | 2 | 120 | 112 | 0.98 A | 0.90 | 0.80 | 99 | 1.7 | 8 | 60/16 |
| | 2 | 277 | 110 | 0.42 A | 0.90 | 0.82 | 97 | 1.7 | 10 | 60/16 |
| F96T12/WM | 1 | 120 | 72 | 0.63 A | 1.00 | 1.39 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 71 | 0.28 A | 1.00 | 1.41 | 95 | 1.7 | 12 | 60/16 |
| | 2 | 120 | 141 | 1.24 A | 0.90 | 0.64 | 99 | 1.7 | 8 | 0/-18 |
| | 2 | 277 | 138 | 0.53 A | 0.90 | 0.65 | 98 | 1.7 | 10 | 0/-18 |
| F96T12 | 1 | 120 | 90 | 0.79 A | 1.02 | 1.13 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 89 | 0.34 A | 1.02 | 1.15 | 96 | 1.7 | 12 | 0/-18 |
| | 2 | 120 | 125 | 1.10 A | 0.90 | 0.72 | 99 | 1.7 | 8 | 0/-18 |
| F84T12 | 2 | 277 | 123 | 0.47 A | 0.90 | 0.73 | 97 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 80 | 0.70 A | 1.04 | 1.30 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 79 | 0.30 A | 1.04 | 1.32 | 96 | 1.7 | 12 | 0/-18 |
| | 2 | 120 | 107 | 0.94 A | 0.90 | 0.84 | 99 | 1.7 | 8 | 0/-18 |
| | 2 | 277 | 106 | 0.40 A | 0.90 | 0.85 | 97 | 1.7 | 10 | 0/-18 |
| F72T12 | 1 | 120 | 69 | 0.60 A | 1.04 | 1.51 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 69 | 0.27 A | 1.04 | 1.51 | 95 | 1.7 | 12 | 0/-18 |
| | 2 | 120 | 97 | 0.86 A | 0.90 | 0.93 | 99 | 1.7 | 8 | 0/-18 |
| | 2 | 277 | 96 | 0.37 A | 0.90 | 0.94 | 97 | 1.7 | 10 | 0/-18 |
| F64T12 | 1 | 120 | 63 | 0.55 A | 1.08 | 1.71 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 63 | 0.25 A | 1.08 | 1.71 | 95 | 1.7 | 12 | 0/-18 |
| | 2 | 120 | 92 | 0.81 A | 0.90 | 0.98 | 99 | 1.7 | 8 | 0/-18 |
| | 2 | 277 | 91 | 0.35 A | 0.90 | 0.99 | 96 | 1.7 | 10 | 0/-18 |
| F60T12 | 1 | 120 | 60 | 0.53 A | 1.08 | 1.80 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 60 | 0.28 A | 1.08 | 1.80 | 94 | 1.7 | 12 | 0/-18 |
| | 2 | 120 | 73 | 0.65 A | 0.90 | 1.23 | 99 | 1.7 | 8 | 0/-18 |
| | 2 | 277 | 73 | 0.29 A | 0.90 | 1.23 | 95 | 1.7 | 10 | 0/-18 |
| F48T12 | 1 | 120 | 49 | 0.43 A | 1.10 | 2.24 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 48 | 0.20 A | 1.10 | 2.29 | 89 | 1.7 | 12 | 0/-18 |

Safety and performance



Product is compliant with material restriction requirements of RoHS

T12 High Output

T12 Electronic and High Output Ballasts

35727 – GE296HO-MVPS-N

T12 High Output ProLine® T12 Multivolt 120V – 277V

2 or 1 – F96T12 HO RS 120 to 277 Multivolt ProLine®

| General characteristics | |
|-------------------------------|--------------------------------------|
| Ballast Type | Electronic – Programmed/ Rapid Start |
| Starting Method | Rapid start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 75°C (167°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Thermally protected |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| Std. pack | Pallet Pack | DIY Pack | IP Pack |
| 35727 | | 72109 | |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F96T12/HO/ WM | 2 | 120 | 164 | 1.38 A | 0.90 | 0.55 | 99 | 1.7 | 10 | 60/16 | |
| | 2 | 277 | 164 | 0.62 A | 0.90 | 0.55 | 99 | 1.7 | 10 | 60/16 | |
| | 2 | 120 | 196 | 1.65 A | 0.90 | 0.46 | 99 | 1.7 | 10 | -20/-29 | |
| F96T12/HO | 2 | 277 | 196 | 0.73 A | 0.90 | 0.46 | 97 | 1.7 | 10 | -20/-29 | |
| | 1 | 120 | 104 | 0.88 A | 0.92 | 0.88 | 99 | 1.7 | 15 | -20/-29 | |
| | 1 | 277 | 104 | 0.42 A | 0.92 | 0.88 | 95 | 1.7 | 15 | -20/-29 | |
| F72T12/HO | 2 | 120 | 154 | 1.30 A | 0.90 | 0.58 | 99 | 1.7 | 10 | -20/-29 | |
| | 2 | 277 | 154 | 0.57 A | 0.90 | 0.58 | 96 | 1.7 | 10 | -20/-29 | |
| F70T8 | 2 | 120 | 120 | 1.17 A | 0.90 | 0.75 | 99 | 1.7 | 10 | -20/-29 | |
| | 2 | 277 | 119 | 0.52 A | 0.90 | 0.76 | 97 | 1.7 | 10 | -20/-29 | |
| F60T12/HO | 2 | 120 | 132 | 0.50 A | 0.90 | 0.68 | 96 | 1.7 | 10 | -20/-29 | |
| | 2 | 277 | 132 | 0.50 A | 0.90 | 0.68 | 96 | 1.7 | 10 | -20/-29 | |
| F48T12/HO | 2 | 120 | 112 | 0.95 A | 0.90 | 0.80 | 99 | 1.7 | 15 | -20/-29 | |
| | 2 | 277 | 113 | 0.43 A | 0.90 | 0.80 | 95 | 1.7 | 15 | -20/-29 | |

Safety and performance

cUL Listed  UL Listed FCC Part 18 (Class A) Non Consumer

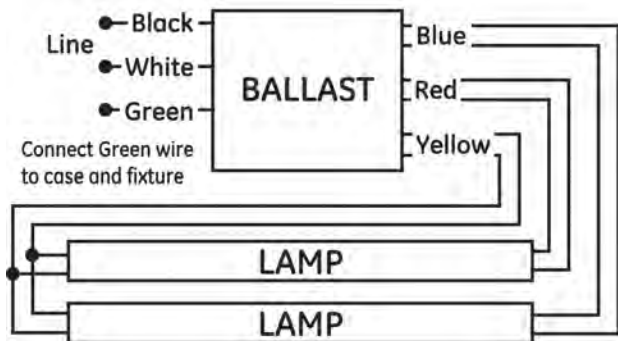
| Dimensions | |
|---|-------------------|
| Wiring diagram – LFL PS2 – see example on page 14-6 | |
| Case dimensions – Ref Drawing SL – see page 14-7 | |
| Length (L) | 11.75 in (299 mm) |
| Width (W) | 2.15 in (55 mm) |
| Height (H) | 1.61 in (41 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.0 in (279 mm) |
| Mount Width (X or F) | 2.15 in (55 mm) |
| Mount Slots (MS) | |
| Weight | |
| Exit Type | Side |
| Remote Mounting Distance to Lamp* | |
| Remote Mounting Wire Gauge | |

* See gelighting.com for wire lengths. Different for 10 pg vs. DIY pack.

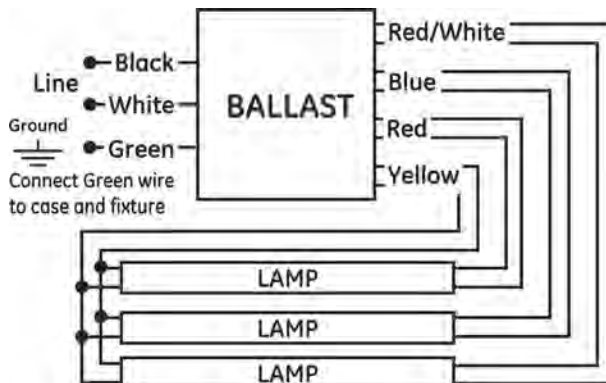
Wiring Diagrams

T12 Electronic and High Output Ballasts

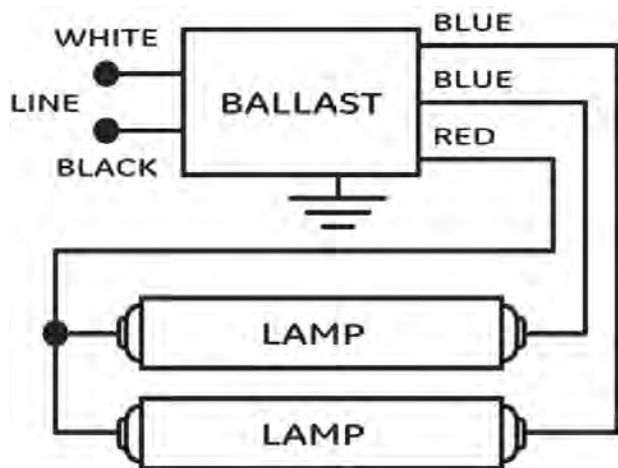
LFL PS2



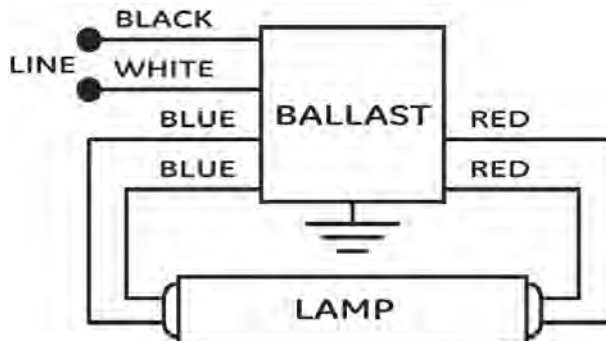
LFL PS3



LFL 14



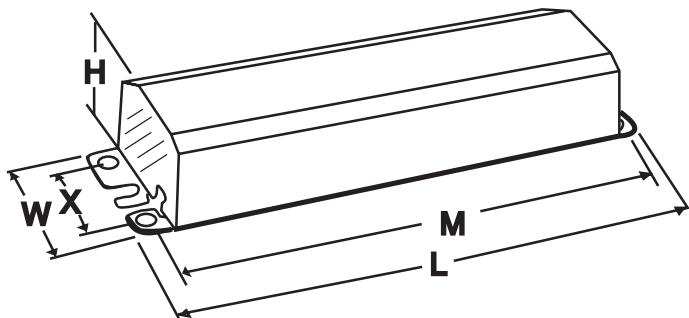
LFL 2



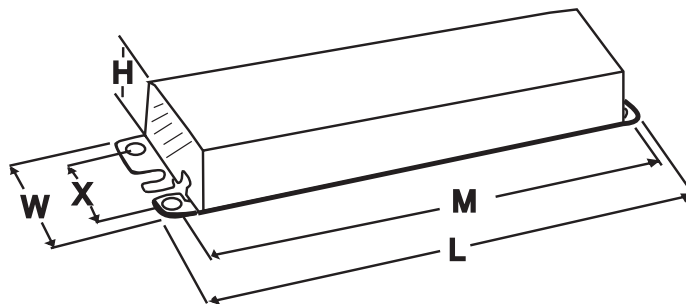
Case Dimensions

T12 Electronic and High Output Ballasts

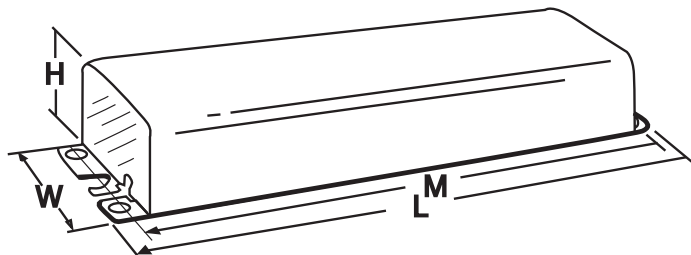
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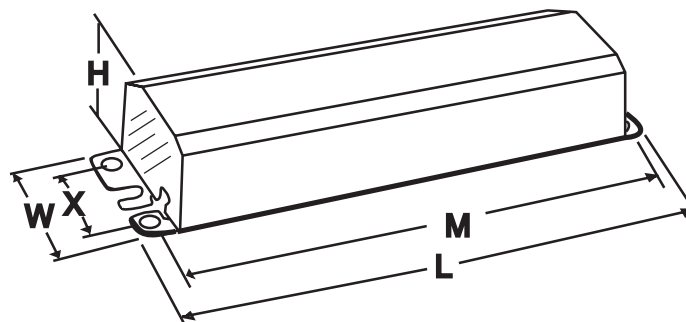
B1



D10, 15, 29



SL



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

Notes

Table of Contents

Magnetic Ballasts

Magnetic Ballasts

For T12 and T8 Preheat Lamps 15-2

For T9 Circleline Lamps 15-3

For T8 and T12 Straight Lamps,
and 2 Pin CFL Lamps..... 15-5

Fluorescent Accessories

Starters 15-6

Sockets..... 15-6

Wiring Diagrams..... 15-7

Case Dimensions 15-8

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

Magnetic Ballasts

For T12 and T8 Preheat Lamps

68186 – GEM120PH120DIY

Magnetic Ballasts

1 – F20T12, F15T8, F1512, F14T8, F18T8, 120V, Magnetic Ballast (200H2)

| | |
|-------------------------------|------------------------|
| Ballast Type | Magnetic – Rapid Start |
| Starting Method | Preheat |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 5% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | A (20-24 decibels) |
| Additional Info | |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| Std. pack | Pallet Pack | DIY Pack | IP Pack |
|-----------|-------------|----------|---------|
| | | 68186 | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
|--------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| F15T12 | 1 | 120 | 17 | 0.29 A | 0.84 | 5.1 | 47 | 1.6 | 15 | 50 / 10 |
| F15T8 | 1 | 120 | 16.5 | 0.28 A | 0.89 | 5.3 | 47 | 1.6 | 15 | 50 / 10 |
| F20T12 | 1 | 120 | 17 | 0.25 A | 0.70 | 4.0 | 55 | 1.6 | 15 | 50 / 10 |

Safety and performance



- Magnetic ballast construction for all general fluorescent lighting
- Extends lamp life in frequently switched applications
- Color-coded ballast and package labels reduce misapplication errors (120V Yellow, 277V Red)

Wiring diagram – LFL 21 – see example on page 15-7

Case dimensions – Ref Drawing 2 – see page 15-8

| | |
|------------|-----------------|
| Length (L) | 3.06 in (78 mm) |
| Width (W) | 1.81 in (46 mm) |
| Height (H) | 1.5 in (38 mm) |

Mounting dimensions

| | |
|----------------------------------|-----------------|
| Bracket Length (BL) | 3.0 in (77 mm) |
| Mount Length (M) | 2.75 in (70 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.2 in (6 mm) |
| Weight | 0.66 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in) |
| Black | 12 in (305 mm) |

68187 – GEM120TC120DIY

Magnetic Ballasts

1 – F20T12, F15T8, F15T12, F14T12, 120V, Magnetic Ballast (546BTCP)

General characteristics

| | |
|-------------------------------|-----------------------------------|
| Ballast Type | Magnetic – Rapid Start |
| Starting Method | Preheat |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 5% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Thermally protected |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| Std. pack | Pallet Pack | DIY Pack | IP Pack |
|-----------|-------------|----------|---------|
| | | 68187 | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
|--------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| F20T12 | 1 | 120 | 18.6 | 0.31 | 0.76 | 2.0 | 0.51 | 1.7 | 30 | 50 / 10 |
| F15T8 | 1 | 120 | 18.3 | 0.32 | 0.93 | 2.6 | 0.48 | 1.7 | 30 | 50 / 10 |
| F14T12 | 1 | 120 | 18.1 | 0.32 | 0.94 | 2.6 | 0.47 | 1.7 | 30 | 50 / 10 |
| F15T12 | 1 | 120 | 18.2 | 0.31 | 0.91 | 2.6 | 0.49 | 1.7 | 30 | 50 / 10 |

Safety and performance



- Magnetic ballast construction for all general fluorescent lighting

- Extends lamp life in frequently switched applications
- Color-coded ballast and package labels reduce misapplication errors (120V Yellow, 277V Red)

Dimensions

Wiring diagram – LFL 22 – see example on page 15-7

Case dimensions – Ref Drawing 9 – see page 15-8

| | |
|------------|-----------------|
| Length (L) | 6.5 in (165 mm) |
| Width (W) | 1.75 in (44 mm) |
| Height (H) | 1.38 in (35 mm) |

Mounting dimensions

| | |
|----------------------------------|-----------------|
| Bracket Length (BL) | 6.4 in (164 mm) |
| Mount Length (M) | 6.0 in (152 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| Weight | 2.10 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in) |
| Black | 20 in (508 mm) |
| Blue | 15 in (381 mm) |
| Red | 15 in (381 mm) |

Magnetic Ballasts

For Two Circleline T9 Preheat Lamps

68190 – GEM1FC16T9RS120

Magnetic Ballasts

2 – FC12T9, FC16T9, FC8T9, FC12T9, 120V, Magnetic (726VLHWSTCP)

- Magnetic ballast construction for all general fluorescent lighting
- Extends lamp life in frequently switched applications
- Color-coded ballast and package labels reduce misapplication errors (120V Yellow, 277V Red)

General characteristics

| | |
|-------------------------------|-----------------------------------|
| Ballast Type | Magnetic – Rapid Start |
| Starting Method | Preheat |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 5% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Thermally protected |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| Std. pack | Pallet Pack | DIY Pack | IP Pack |
|-----------|-------------|----------|---------|
| | | 68190 | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
|---------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| FC16T9/FC12T9 | 2 | 120 | 53 | 0.60 A | 1.70 | 2.30 | 75 | 1.7 | 30 | 50 / 10 |
| FC8T9/FC12T9 | 2 | 120 | 43 | 0.60 A | 1.70 | 2.30 | 60 | 1.7 | 30 | 50 / 10 |

Safety and performance



Dimensions

Wiring diagram – LFL 037 – see example on page 15-7

Case dimensions – Ref Drawing 9 – see page 15-8

| | |
|------------|-----------------|
| Length (L) | 6.5 in (167 mm) |
| Width (W) | 1.75 in (44 mm) |
| Height (H) | 1.38 in (35 mm) |

Mounting dimensions

| | |
|----------------------------------|-----------------|
| Bracket Length (BL) | 6.5 in (167 mm) |
| Mount Length (M) | 6.0 in (152 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.60 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------------------|-----------------------------------|
| White | Length (± 1 in) 15 in (381 mm) |
| Black | 15 in (381 mm) |
| Red, Blue, Yellow | 11 in (280 mm) |

Magnetic Ballasts

For One Circleline T9 Preheat Lamp

68193 – GEM1FC8T9RS120IP

Magnetic Ballasts





1 – FC8T9, FC6T9, RS, 120V, Magnetic Ballast (547RSWSTCP)

| General characteristics | |
|-------------------------------|-----------------------------------|
| Ballast Type | Magnetic - Rapid Start |
| Starting Method | Preheat |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 5% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Thermally protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| Std. pack | Pallet Pack | DIY Pack | IP Pack |
| | | | 68193 |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| FC8T9 | 1 | 120 | 20 | 0.32 A | 0.76 | 3.8 | 52 | 1.8 | 30 | 50 / 10 |
| FC6T9 | 1 | 120 | 20 | 0.31 A | 0.78 | 3.7 | 53 | 1.8 | 30 | 50 / 10 |

Safety and performance    

- Magnetic ballast construction for all general fluorescent lighting
- Extends lamp life in frequently switched applications
- Color-coded ballast and package labels reduce misapplication errors (120V Yellow, 277V Red)

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 29 – see example on page 15-7 | |
| Case dimensions – Ref Drawing 9 – see page 15-8 | |
| Length (L) | 6.5 in (165 mm) |
| Width (W) | 1.75 in (44 mm) |
| Height (H) | 1.38 in (35 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | 6.4 in (164 mm) |
| Mount Length (M) | 6.0 in (152 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| Weight | 1.0 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in) |
| Black | 15 in (381 mm) |
| White | 15 in (381 mm) |
| Blue | 9 in (229 mm) |
| Red | 9 in (229 mm) |

68191 – GEM1FC8T9RS120DI

Magnetic Ballasts

1 – FC8T9, RS, 120V Magnetic Ballast (547RSWSTCP)

| General characteristics | |
|-------------------------------|-----------------------------------|
| Ballast Type | Magnetic - Rapid Start |
| Starting Method | Preheat |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 5% |
| Ambient Temperature (MAX) | 219°F (104°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto restart, Thermally protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| Std. pack | Pallet Pack | DIY Pack | IP Pack |
| | | | 68191 |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| FC8T9 | 1 | 120 | 20 | 0.32 A | 0.76 | 3.8 | 52 | 1.8 | 30 | 50 / 10 |
| FC6T9 | 1 | 120 | 20 | 0.31 A | 0.78 | 3.7 | 53 | 1.8 | 30 | 50 / 10 |

Safety and performance    

- Magnetic ballast construction for all general fluorescent lighting
- Extends lamp life in frequently switched applications
- Color-coded ballast and package labels reduce misapplication errors (120V Yellow, 277V Red)

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 29 – see example on page 15-7 | |
| Case dimensions – Ref Drawing 9 – see page 15-8 | |
| Length (L) | 6.5 in (167 mm) |
| Width (W) | 1.75 in (44 mm) |
| Height (H) | 1.38 in (35 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | 6.4 in (164 mm) |
| Mount Length (M) | 6.0 in (152 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.0 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in) |
| Black | 15 in (381 mm) |
| White | 15 in (381 mm) |
| Red | 9 in (229 mm) |
| Blue | 9 in (229 mm) |

Magnetic Ballasts

For T8 and T12 Straight Lamps and 2 Pin CFL Lamps

68192 – GEM220TS120DIY

Magnetic Ballasts

2 – F20T12, F15T8, F15T12, F14T12, 120V, Magnetic Ballast (447LRVLHTCP)

- Magnetic ballast construction for all general fluorescent lighting
- Extends lamp life in frequently switched applications
- Color-coded ballast and package labels reduce misapplication errors (120V Yellow, 277V Red)





| General characteristics | |
|-------------------------------|-----------------------------------|
| Ballast Type | Magnetic - Rapid Start |
| Starting Method | Preheat |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 5% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Thermally protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| Std. pack | Pallet Pack | DIY Pack | IP Pack |
| | | 68192 | |

| Dimensions | |
|---|-----------------|
| Wiring diagram – LFL PS2 – see example on page 15-7 | |
| Case dimensions – Ref Drawing 9 – see page 15-8 | |
| Length (L) | 6.5 in (167 mm) |
| Width (W) | 1.75 in (44 mm) |
| Height (H) | 1.38 in (35 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | 6.5 in (167 mm) |
| Mount Length (M) | 6.0 in (152 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.30 in (8 mm) |
| Weight | 1.55 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Length (± 1 in) | |
| Black | 15 in (381 mm) |
| Red | 15 in (381 mm) |
| Blue | 15 in (381 mm) |
| Yellow | 15 in (381 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| F20T12 | 2 | 120 | 32 | 0.50 A | 0.75 | 2.05 | 52 | 1.7 | 30 | 50 / 10 |
| F15T12 | 2 | 120 | 31 | 0.52 A | 0.88 | 2.51 | 50 | 1.7 | 30 | 50 / 10 |
| F15T8 | 2 | 120 | 30.5 | 0.52 A | 0.85 | 2.54 | 51 | 1.7 | 30 | 50 / 10 |

Safety and performance  UL Type 1 Outdoor  UL Type HL  UL Class P  UL US

68188 – GEM1CF13PH120

Magnetic Ballasts

120V Magnetic Ballast For one 2 Pin 13W CFL Lamp

- Magnetic ballast construction for all general fluorescent lighting
- Extends lamp life in frequently switched applications
- Color-coded ballast and package labels reduce misapplication errors (120V Yellow, 277V Red)

| General characteristics | |
|-------------------------------|-----------------------------------|
| Ballast Type | Magnetic - Rapid Start |
| Starting Method | Preheat |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 5% |
| Ambient Temperature (MAX) | 219°F (104°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto restart, Thermally protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| Std. pack | Pallet Pack | DIY Pack | IP Pack |
| | | | 68188 |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 24 – see example on page 15-7 | |
| Case dimensions – Ref Drawing 2 – see page 15-8 | |
| Length (L) | 3.06 in (78 mm) |
| Width (W) | 1.81 in (46 mm) |
| Height (H) | 1.5 in (38 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | 6.4 in (163 mm) |
| Mount Length (M) | 2.75 in (70 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.66 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Length (± 1 in) | |
| Black | 12 in (305 mm) |
| Black | 12 in (305 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| CF1/013W/GX23 | 1 | 120 | 15.5 | 0.24 A | 0.93 | 6.00 | 50 | 1.6 | 15 | 50 / 10 |

Safety and performance  UL Type 1 Outdoor  UL Type HL  UL Class P

Magnetic Ballasts

Accessories

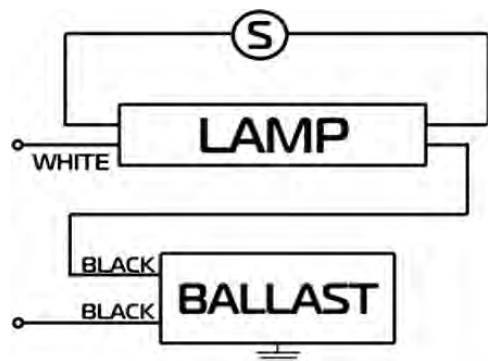
Fluorescent Accessories

| Fluorescent Accessories | Prod Code | Description | Application | Pack Qty. | Pack Type |
|-------------------------|-----------|-------------|--|-----------|-----------|
| Starters | 64818 | FS-2-C/TP | Starters for 14, 15 & 20 Watt Flu. Lamps | 6 | Tray Pack |
| | 64819 | FS-4-C/TP | Starters for 30 & 40 Watt Flu. Lamps | 6 | Tray Pack |
| | 64820 | FS-25-C/TP | Starters for 22 & 25 Watt Flu. Lamps | 6 | Tray Pack |
| | 64821 | FS-5-C/TP | Starters for 4, 6 & 8 Watt Flu. Lamps | 6 | Tray Pack |
| Sockets | 64822 | BP-LP/TP | Low Profile Socket Set for Bi-Pin Flu. Lamps | 7 | Tray Pack |
| | 64823 | BP/TP | Socket Set for Bi-Pin Flu. Lamps | 7 | Tray Pack |
| | 64824 | BP-FM/TP | Face Mount Socket Set for Bi-Pin Flu. Lamps | 7 | Tray Pack |
| | 64825 | SL-SS/TP | Socket Set for Slimline Flu. Lamps | 3 | Tray Pack |

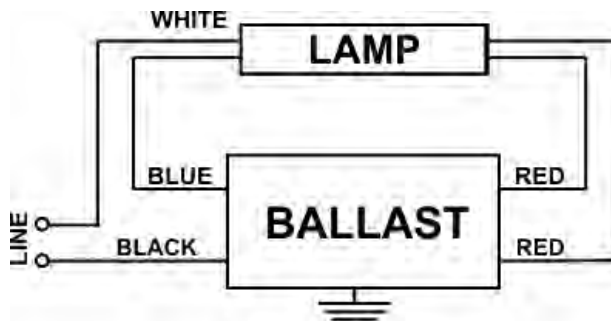
Wiring Diagrams

Magnetic Ballasts

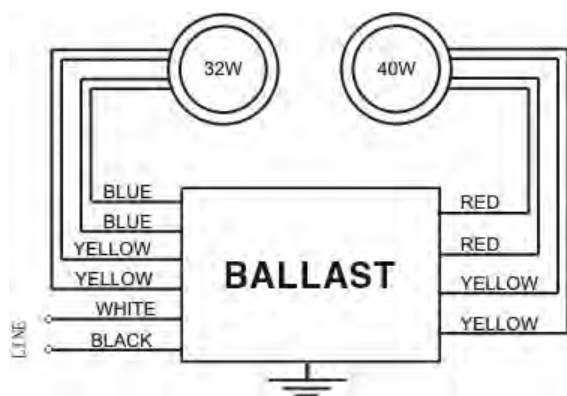
LFL 21



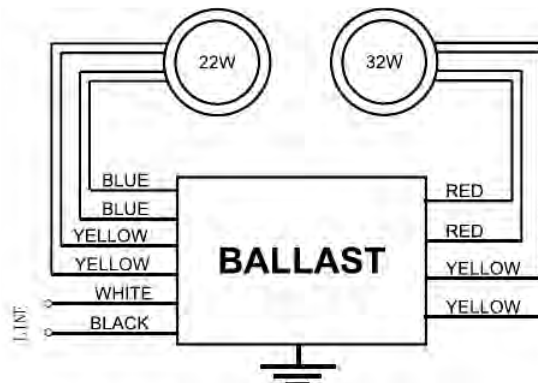
LFL 22



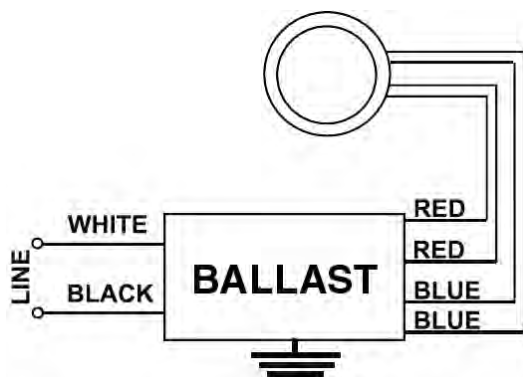
LFL 037



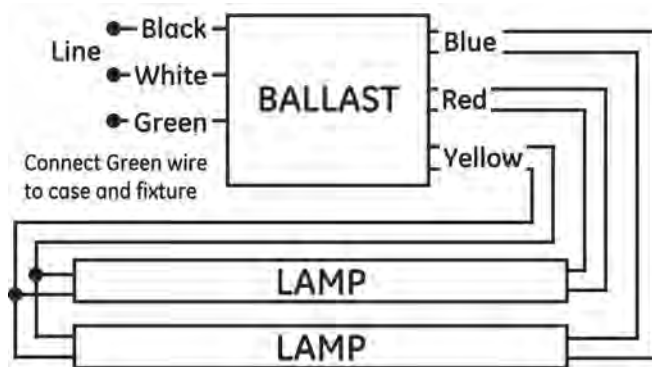
LFL 038



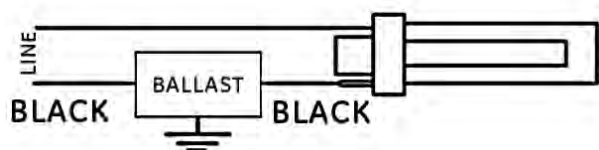
LFL 29



LFL PS2



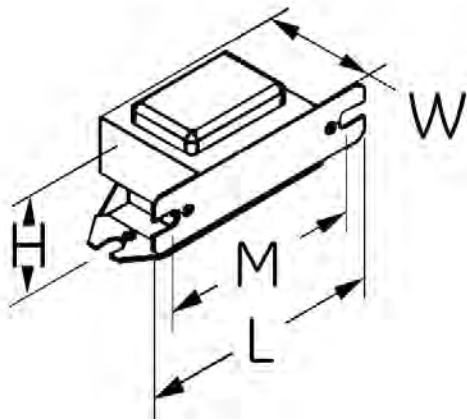
LFL 24



Case Dimensions

Magnetic Ballasts

Drawing 2



Drawing 9

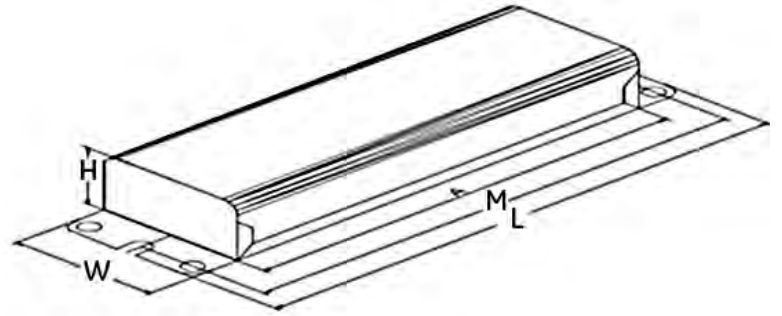


Table of Contents

Sign Ballasts

Understanding Sign Ballasts 16-2

Sign Ballasts

 For T12 High Output Lamps..... 16-3

Wiring Diagrams..... 16-7

Case Dimensions 16-9

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

Sign Ballasts

For T12 High Output Lamps

72103 – GESB-0412-12-IP

Sign Ballasts

T12HO Sign Ballast 4 to 12 ft, 1 to 2 lamps

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Magnetic – T12 Sign Illuminating |
| Starting Method | Rapid start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | |
| Additional Info | Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 72103 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| | 2 | 120 | 170 | 1.48 A | 0.89 | 0.52 | 98 | 1.9 | 15 | -20/-30 |
| F72T12/HO | 1 | 120 | 100 | 0.92 A | 0.81 | 0.81 | 92 | 2.0 | 35 | -20/-30 |
| F96T12/HO | 1 | 120 | 120 | 1.03 A | 0.84 | 0.70 | 96 | 2.0 | 25 | -20/-30 |
| | 2 | 120 | 130 | 1.13 A | 0.85 | 0.65 | 97 | 2.0 | 20 | -20/-30 |
| F48T12/HO | 1 | 120 | 80 | 0.82 A | 0.77 | 0.96 | 84 | 2.1 | 55 | -20/-30 |
| F24T12/HO | 2 | 120 | 90 | 0.90 A | 0.78 | 0.87 | 84 | 2.1 | 55 | -20/-30 |

Safety and performance  UL Type 2 Outdoor  UL Listed cUL Listed 3-Year Warranty

- High-output ballasts for rugged outdoor sign cabinet applications
- Reliable low-temperature starting – as low as -20°F
- Ideal for high-moisture environments – UL Type 2 Outdoor and HL rating
- Class P thermal protection

| Dimensions | |
|--|-------------------|
| Wiring diagrams – Sign 0412 – see example on page 16-7 | |
| Case dimensions – Ref Drawing S1 – see page 16-9 | |
| Length (L) | 11.75 in (298 mm) |
| Width (W) | 3.19 in (81 mm) |
| Height (H) | 2.6 in (68 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | |
| Mount Length (M) | 11.0 in (279 mm) |
| Mount Width (X or F) | 3.19 in (81 mm) |
| Mount Slots (MS) | |
| Weight | 8.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | Varies |
| Remote Mounting Wire Gauge | Varies |
| Lead lengths | Length (± 1 in) |
| White and Black | 24 in (610 mm) |
| Brown and Blue | 80 in (2032 mm) |
| Orange/Black | 60 in (1524 mm) |
| Orange, Red and Yellow | 60 in (1524 mm) |
| Blue/White | 72 in (1829 mm) |

72104 – GESB-0620-24-IP

Sign Ballasts

T12HO Sign Ballast 6 to 20 ft, 2 to 4 lamps

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Magnetic – T12 Sign Illuminating |
| Starting Method | Rapid start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | |
| Additional Info | Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 72104 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| F60T12/HO | 4 | 120 | 300 | 2.56 A | 1.06 | 0.35 | 95 | 1.7 | 15 | -20 / -30 |
| F72T12/HO | 3 | 120 | 240 | 2.34 A | 0.96 | 0.40 | 99 | 1.8 | 15 | -20 / -30 |
| F36T12/HO | 2 | 120 | 115 | 1.41 A | 0.87 | 0.76 | 87 | 2.0 | 45 | -20 / -30 |

Safety and performance  UL Type 2 Outdoor  UL Listed cUL Listed 3-Year Warranty

- High-output ballasts for rugged outdoor sign cabinet applications
- Reliable low-temperature starting – as low as -20°F
- Ideal for high-moisture environments – UL Type 2 Outdoor and HL rating
- Class P thermal protection

| Dimensions | |
|--|-------------------|
| Wiring diagrams – Sign 0620 – see example on page 16-8 | |
| Case dimensions – Ref Drawing S1 – see page 16-9 | |
| Length (L) | 11.75 in (298 mm) |
| Width (W) | 3.19 in (81 mm) |
| Height (H) | 2.6 in (68 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | |
| Mount Length (M) | 11.0 in (279 mm) |
| Mount Width (X or F) | 3.19 in (81 mm) |
| Mount Slots (MS) | |
| Weight | 16.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | Varies |
| Remote Mounting Wire Gauge | Varies |
| Lead lengths | Length (± 1 in) |
| White and Black | 24 in (610 mm) |
| Brown and Blue | 80 in (2032 mm) |
| Orange/Black | 60 in (1524 mm) |
| Orange, Red and Yellow | 60 in (1524 mm) |
| Blue/White | 72 in (1829 mm) |

Sign Ballasts

For T12 High Output Lamps

72105 – GESB-1224-24-IP

Sign Ballasts

T12HO Sign Ballast 12 to 24 ft, 2 to 4 lamps

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Magnetic - T12 Sign Illuminating |
| Starting Method | Rapid start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | |
| Additional Info | Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 72105 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| F72T12/HO | 4 | 120 | 285 | 2.70 A | 0.84 | 0.29 | 99 | 1.7 | 10 | -20 / -30 |
| | 3 | 120 | 230 | 2.10 A | 0.82 | 0.36 | 96 | 1.7 | 15 | -20 / -30 |
| | 2 | 120 | 170 | 1.60 A | 0.82 | 0.48 | 87 | 1.7 | 25 | -20 / -30 |

Safety and performance  UL Type 2 Outdoor  UL Listed  cUL Listed  Class P 3-Year Warranty

- High-output ballasts for rugged outdoor sign cabinet applications
- Reliable low-temperature starting - as low as -20°F
- Ideal for high-moisture environments - UL Type 2 Outdoor and HL rating
- Class P thermal protection

| Dimensions | |
|---|------------------------|
| Wiring diagrams – Sign 1224 – see example on page 16-8 | |
| Case dimensions – Ref Drawing S1 – see page 16-9 | |
| Length (L) | 11.75 in (298 mm) |
| Width (W) | 3.19 in (81 mm) |
| Height (H) | 2.6 in (68 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | |
| Mount Length (M) | 11.0 in (279 mm) |
| Mount Width (X or F) | 3.19 in (81 mm) |
| Mount Slots (MS) | |
| Weight | 16.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | Varies |
| Remote Mounting Wire Gauge | Varies |
| Lead lengths | Length (± 1 in) |
| White and Black | 24 in (610 mm) |
| Brown and Blue | 80 in (2032 mm) |
| Orange/Black | 60 in (1524 mm) |
| Orange, Red and Yellow | 60 in (1524 mm) |
| Blue/White | 72 in (1829 mm) |

72106 – GESB-1240-46-IP

Sign Ballasts


T12HO Sign Ballast 12 to 40 ft, 4 to 6 lamps

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Magnetic - T12 Sign Illuminating |
| Starting Method | Rapid start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | |
| Additional Info | Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 72106 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| (2) F96T12/HO + (4) F72T12/HO | 6 | 120 | 466 | 4.00 A | 0.78 | 0.17 | 98 | 1.6 | 10 | -20 / -30 |
| F72T12/HO | 5 | 120 | 372 | 3.50 A | 0.77 | 0.21 | 90 | 1.7 | 15 | -20 / -30 |
| F48T12/HO | 5 | 120 | 237 | 2.90 A | 0.72 | 0.30 | 69 | 1.8 | 20 | -20 / -30 |
| F36T12/HO | 4 | 120 | 196 | 2.80 A | 0.62 | 0.32 | 59 | 1.9 | 35 | -20 / -30 |

Safety and performance  UL Type 2 Outdoor  UL Listed  cUL Listed 3-Year Warranty

- High-output ballasts for rugged outdoor sign cabinet applications
- Reliable low-temperature starting - as low as -20°F
- Ideal for high-moisture environments - UL Type 2 Outdoor and HL rating
- Class P thermal protection

| Dimensions | |
|---|------------------------|
| Wiring diagrams – Sign 1240 – see example on page 16-8 | |
| Case dimensions – Ref Drawing S1 – see page 16-9 | |
| Length (L) | 11.75 in (298 mm) |
| Width (W) | 3.19 in (81 mm) |
| Height (H) | 2.6 in (68 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | |
| Mount Length (M) | 11.0 in (279 mm) |
| Mount Width (X or F) | 3.19 in (81 mm) |
| Mount Slots (MS) | |
| Weight | 18.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | Varies |
| Remote Mounting Wire Gauge | Varies |
| Lead lengths | Length (± 1 in) |
| White and Black | 24 in (610 mm) |
| Brown and Blue | 80 in (2032 mm) |
| Orange/Black | 60 in (1524 mm) |
| Orange, Red and Yellow | 60 in (1524 mm) |
| Blue/White | 72 in (1829 mm) |

Sign Ballasts

For T12 High Output Lamps

72107 – GESB-2040-24-IP

Sign Ballasts

T12HO Sign Ballast 20 to 40 ft, 2 to 4 lamps

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Magnetic - T12 Sign Illuminating |
| Starting Method | Rapid start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 15% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Enclosure Type | Metal Can |
| Additional Info | Inherently Thermally Protected, UL Class P |

Electrical characteristics


| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 72107 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
|------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| F120T12/HO | 4 | 120 | 464 | 4.00 A | 0.85 | 0.18 | 97 | 1.7 | 12 | -22 / -30 |
| | 3 | 120 | 357 | 3.40 A | 0.82 | 0.23 | 89 | 1.7 | 15 | -22 / -30 |
| | 2 | 120 | 255 | 3.00 A | 0.75 | 0.29 | 71 | 1.8 | 30 | -22 / -30 |

Safety and performance  UL Type 2 Outdoor  UL Listed UL Type HL 3-Year Warranty

- High-output ballasts for rugged outdoor sign cabinet applications
- Reliable low-temperature starting - as low as -20°F
- Ideal for high-moisture environments - UL Type 2 Outdoor and HL rating
- Class P thermal protection

Dimensions

Wiring diagrams – Sign 2040 – see example on page 16-8

Case dimensions – Ref Drawing S1 – see page 16-9

| | |
|------------|------------------|
| Length (L) | 19.5 in (495 mm) |
| Width (W) | 3.2 in (81 mm) |
| Height (H) | 2.4 in (62 mm) |

Mounting dimensions

| | |
|----------------------------------|------------------|
| Bracket Length (BL) | |
| Mount Length (M) | 18.6 in (473 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| Weight | 22.2 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | Varies |
| Remote Mounting Wire Gauge | Varies |

Lead lengths

| | |
|------------------|-----------------------------------|
| White and Black | Length (± 1 in) 24 in (610 mm) |
| Brown and Yellow | 72 in (1829 mm) |
| Blue and Red | 80 in (2032 mm) |
| Blue/White | 54 in (1372 mm) |

72108 – GESB-2448-46-IP

Sign Ballasts

T12HO Sign Ballast 6 to 12 ft, 4 to 6 lamps

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Magnetic - T12 Sign Illuminating |
| Starting Method | Rapid start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 15% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Enclosure Type | Metal Can |
| Additional Info | Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 72108 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| F96T12/HO | 6 | 120 | 621 | 5.20 A | 0.86 | 0.14 | 99 | 1.6 | 10 | -20 / -30 |
| | 5 | 120 | 546 | 4.70 A | 0.87 | 0.16 | 96 | 1.6 | 10 | -20 / -30 |
| | 5 | 120 | 453 | 4.30 A | 0.80 | 0.18 | 87 | 1.7 | 15 | -20 / -30 |
| F72T12/HO | 4 | 120 | 373 | 4.00 A | 0.72 | 0.19 | 78 | 1.7 | 20 | -20 / -30 |

Safety and performance  UL Type 2 Outdoor  UL Listed UL Type HL 3-Year Warranty

- High-output ballasts for rugged outdoor sign cabinet applications
- Reliable low-temperature starting - as low as -20°F
- Ideal for high-moisture environments - UL Type 2 Outdoor and HL rating
- Class P thermal protection

Dimensions

Wiring diagrams – Sign 2448 – see example on page 16-8

Case dimensions – Ref Drawing S1 – see page 16-9

| | |
|------------|------------------|
| Length (L) | 19.5 in (495 mm) |
| Width (W) | 3.2 in (81 mm) |
| Height (H) | 2.4 in (62 mm) |

Mounting dimensions

| | |
|----------------------------------|------------------|
| Bracket Length (BL) | |
| Mount Length (M) | 18.6 in (473 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| Weight | 22.2 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | Varies |
| Remote Mounting Wire Gauge | Varies |

Lead lengths

| | |
|------------------------|-----------------------------------|
| White and Black | Length (± 1 in) 24 in (610 mm) |
| Orange, Brown and Blue | 50 in (1270 mm) |
| Orange/Black | 50 in (1270 mm) |
| Red | 80 in (2032 mm) |
| Blue/White | 72 in (1829 mm) |
| Yellow | 70 in (1778 mm) |

Sign Ballasts

For T12 High Output Lamps

88921 – USB-0412-12-IP

Sign Ballasts



4 to 12 ft, 1 to 2 lamps

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Magnetic – T12 Sign Illuminating |
| Starting Method | Rapid start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | |
| Additional Info | Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 88921 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| F72T12/HO | 2 | 120 | 160 | 1.35 A | 1.00 | 0.62 | 90 | | | -20 / -29 |

Safety and performance  UL Type 2 Outdoor  UL Type HL  CSA  UL Listed

Note: This product is no longer manufactured. Remaining stock will be sold.

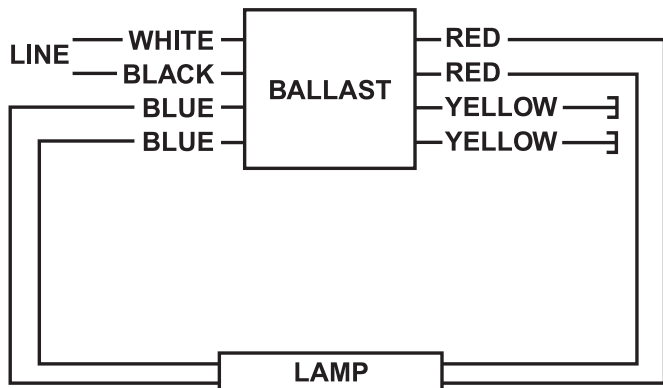
- High-output ballasts for rugged outdoor sign cabinet applications
- Reliable low-temperature starting – as low as -20°F
- Ideal for high-moisture environments – UL Type 2 Outdoor and HL rating
- Class P thermal protection

| Dimensions | |
|--|------------------------|
| Wiring diagrams – Sign S1A, Sign S2A – see example on page 16-7 | |
| Case dimensions – Ref Drawing S1 – see page 16-9 | |
| Length (L) | 10.5 in (269 mm) |
| Width (W) | 3.19 in (81 mm) |
| Height (H) | 1.75 in (44 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | 11.7 in (297 mm) |
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| Weight | 8.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | Varies |
| Remote Mounting Wire Gauge | Varies |
| Lead lengths | Length (± 1 in) |
| White and Black | 24 in (610 mm) |
| Blue and Red | 38 in (965 mm) |
| Yellow | 48 in (1219 mm) |

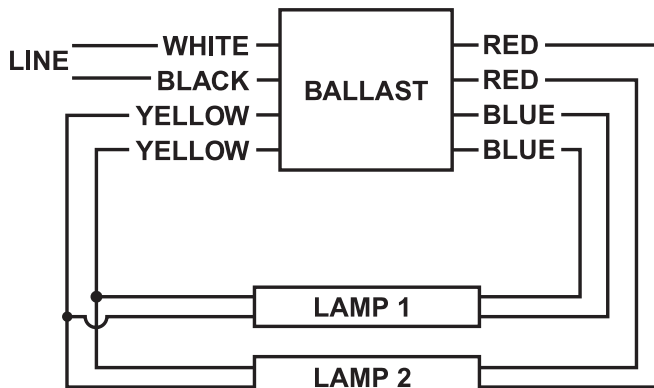
Wiring Diagrams

Sign Ballasts

SIGN S1A

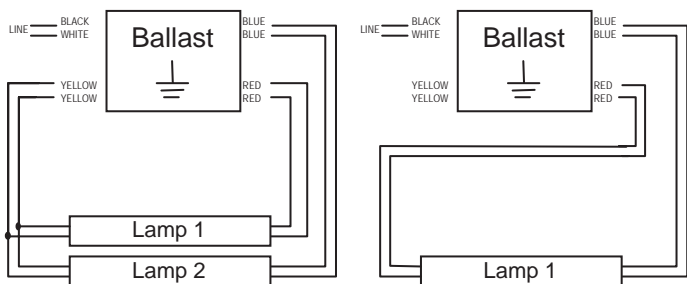


SIGN S2A



MOUNT LAMPS WITHIN 1 OF GROUNDED METAL REFLECTOR

SIGN 0412



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

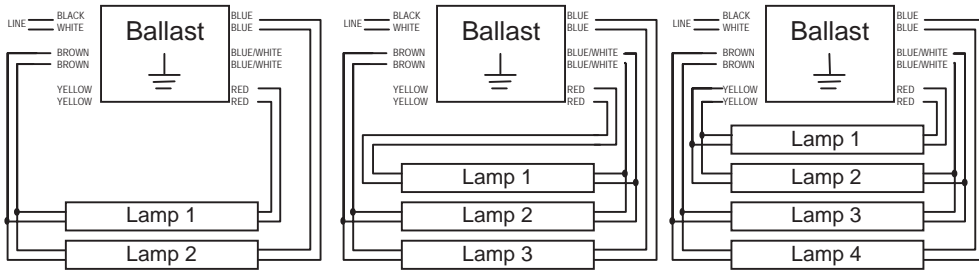
Compact Fluorescent

HID Electronic & Electromagnetic

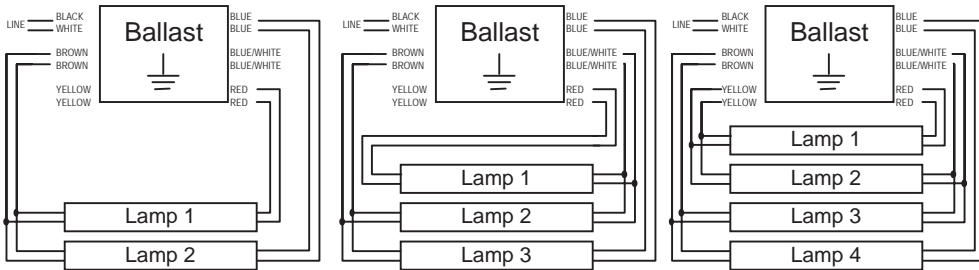
Wiring Diagrams

Sign Ballasts

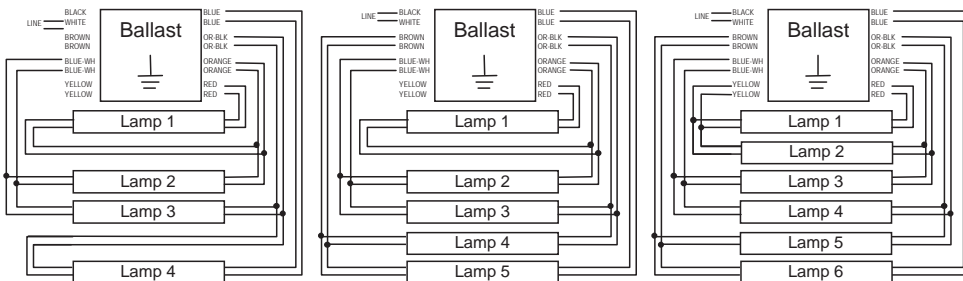
SIGN 0620



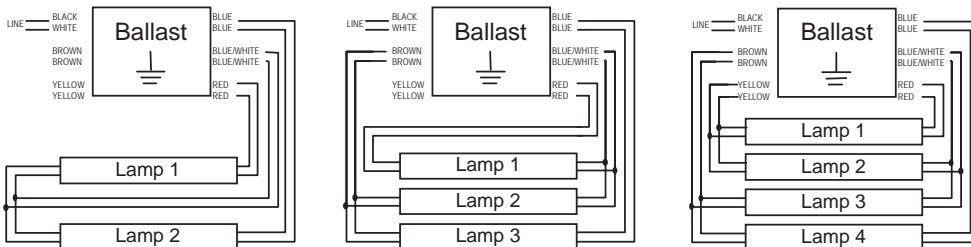
SIGN 1224



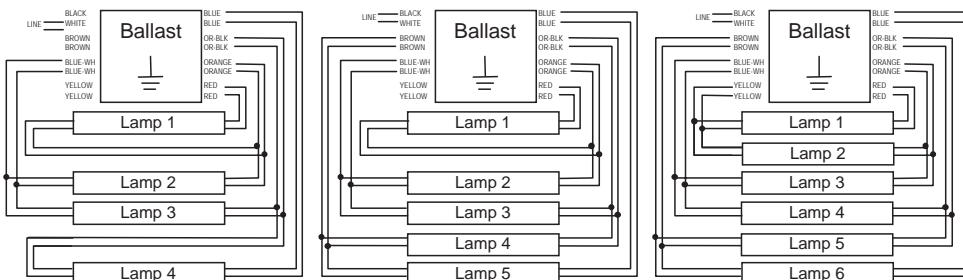
SIGN 1240



SIGN 2040



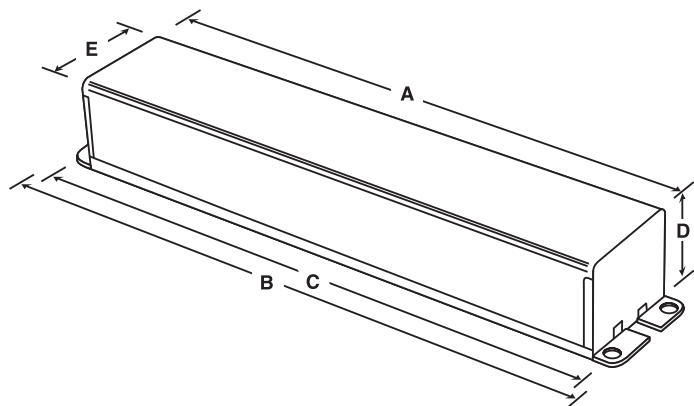
SIGN 2448



Case Dimensions

Sign Ballasts

S1



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

Table of Contents

Compact Fluorescent Ballasts

Understanding Compact Fluorescent Ballasts17-2

ProLine® CFL Electronic Ballasts
 For 13 – 70W T4 CFL Lamps 17-6

**High-Lumen Biax® UltraMax®
 Instant Start Ballasts17-10**

**High-Lumen Biax® UltraStart®
 Programmed Start Ballasts17-13**

CFL Magnetic Ballasts
 For 5 – 26W Preheat CFL Lamps.....17-14

Wiring Diagrams.....17-15

Case Dimensions17-17

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic



Understanding Compact Fluorescent Ballasts

GE compact fluorescent (CFL) ballasts provide energy saving alternatives to halogen, incandescent or HID light sources. GE Multivolt ProLine® CFL programmed start ballasts combine universal voltage (108-305V) technology with multi-lamp capability, dual entry color-coded connectors and ultra system reliability to create an industry leading CFL solution for commercial and residential applications.

UltraMax® and UltraStart® High Lumen Biax® ballasts with the High Lumen WattMiser® Biax® lamp provides the perfect solution for high efficiency and high lumen output in a small space.

UltraMax® Instant Start Ballasts:

- For use in long burn cycles (>10 hr cycles) to maintain lamp life
- High efficiency (>90%) design
- Universal voltage (120-277V)
- Striation control circuitry
- Small compact housing

UltraStart® Programmed Start Ballasts:

- For use in shorter burn cycles (<3 hr cycles) to extend lamp life
- High efficiency (>90%) cathode cutout design
- Universal voltage (120-277V)
- Striation control circuitry
- Small compact housing
- Parallel lamp operation
- <700ms fast starting time
- Ballasts available for both F40/30W and F40/25W lamps

Multivolt ProLine® CFL ballasts are offered in three different configurations:

1) -SE description – dual entry (side or bottom) connectors, 2) -BES – bottom entry with studs for mounting to junction boxes and 3) -3W – 3-way mounting kits that allow you to have all three mounting options with one kit.

Multivolt ProLine® CFL ballasts come with a five-year ballast and one-year lamp limited warranty. These ballasts also meet the EPA's ENERGY STAR® fixture program requirements with a Consumer Class B EMI rating for residential applications, as well as a high power factor ballast design.

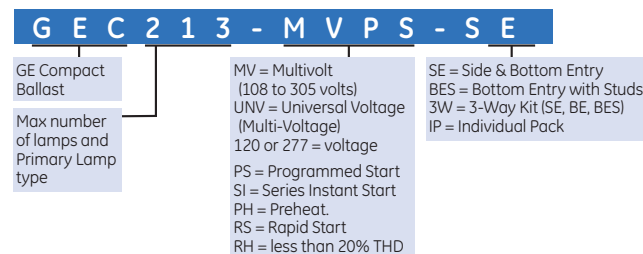
Use the GE Multivolt ProLine® CFL Multi-Lamp compatibility chart (page 17-3) to find the right ballast for your need.

ProLine® CFL Date Code System

Date Code Format: 01 200801 = Week2008 = Year

UltraMax® and UltraStart® Biax® ballasts have the same date code system as all linear fluorescent ballasts.

GE Compact Fluorescent Ballast nomenclature



GE Multivolt ProLine® CFL Multi-Lamp Capability

| | Lamp Type | GEC213-MVPS | GEC218-MVPS | GEC226-MVPS | GEC242-MVPS | GEC140MAX-A | GEC240MAX-A | GEC340MAX-A | GEC225MVPS-A | GEC240MVPS-A |
|---|-----------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|
| T4 | 1 x CFQ13W (G24q) CFTR13W (GX24q) | x | | | | | | | | |
| | 2 x CFQ13W (G24q) CFTR13W (GX24q) | x | | | | | | | | |
| | 1 x CFQ18W (G24q) CFTR18W (GX24q) | x | x | | | | | | | |
| | 2 x CFQ18W (G24q) CFTR18W (GX24q) | | x | | | | | | | |
| | 1 x CFQ26W (G24q) CFTR26W (GX24q) | | x | x | x | | | | | |
| | 2 x CFQ26W (G24q) CFTR26W (GX24q) | | | x | x | | | | | |
| | 1 x CFQ32W (G24q) CFTR32W (GX24q) | | | x | x | | | | | |
| | 2 x CFQ32W (G24q) CFTR32W (GX24q) | | | | x | | | | | |
| | 1 x CFQ42W (G24q) CFTR42W (GX24q) | | | x | x | | | | | |
| | 2 x CFQ42W (G24q) CFTR42W (GX24q) | | | | x | | | | | |
| 1 x 57W (CFTR/GX24q) | | | | x | | | | | | |
| 1 x 70W (CFTR/GX24q) | | | | x | | | | | | |
| 1 x FC9T5-22W (G10q) | | | | x | | | | | | |
| 2 x FC9T5-22W (G10q) | | | | x | | | | | | |
| 1 x FC12T5-40W (G10q) | | | | x | | | | | | |
| 2 x FC12T5-40W (G10q) | | | | x | | | | | | |
| 1 x 22W + 1 x 40W (FC9T5 + FC12T5) (G10q) | | | | x | | | | | | |
| 1 x FC16T9 (G10q) | | | x | | | | | | | |
| 1 x FC16T9 40W (G10q) | | | | | | | | | | |
| 2 x F14T5 (G5) | | | | | | | | | | |
| 2 x F13T5 (G5) | | | | | | | | | | |
| 2 x F24T5/HO (G5) | | | | x | | | | | | |
| 1 x F28T5/HE (G5) | | | | | | x | x | | | |
| 2 x F28T5/HE (G5) | | | | | | | x | | | |
| 3 x F28T5/HE (G5) | | | | | | | | x | | |
| 1 x FT18W (2G11) | | | | | | | | | | |
| 2 x FT18W (2G11) | | | | x | | | | | | |
| 1 x FT24W (2G11) | | | | | x | | | | | |
| 2 x FT24W (2G11) | | | | x | x | | | | | |
| 1 x FT36W (2G11) or CFM36W (2G11) | | | | | x | | | | | |
| 2 x FT36W (2G11) or CFM36W (2G11) | | | | | x | | | | | |
| 1 x FT39W (2G11) | | | | | x | | | | | |
| 2 x FT39W (2G11) | | | | | x | | | | | |
| 1 x FT40/25W or FT40/28W (2G11) | | | | | | x | x | | x | |
| 2 x FT40/25W or FT40/28W (2G11) | | | | | | | x | x | x | |
| 3 x FT40/25W or FT40/28W (2G11) | | | | | | | | x | | |
| 1 x FT40W (2G11) | | | | | x | | x | | x | |
| 2 x FT40W (2G11) | | | | | x | | x | | x | |
| 3 x FT40W (2G11) | | | | | | | | x | | |
| 1 x FT55W (2G11) | | | | | x | | | x | | |
| 1 x F32T8 (G13) | | | | | | x* | x* | | | |
| 2 x F32T8 (G13) | | | | | | | x* | x* | | |
| 3 x F32T8 (G13) | | | | | | | | x* | | |
| 1 x CFS10W (GR10q) | | x | | | | | | | | |
| 2 x CFS10W (GR10q) | | x | | | | | | | | |
| 1 x CFS16W (GR10q) | | x | | | | | | | | |
| 2 x CFS16W (GR10q) | | | x | | | | | | | |
| 1 x CFS21W (GR10q) | | | x | | | | | | | |
| 2 x CFS21W (GR10q) | | | x | x | | | | | | |
| 1 x CFS28W (GR10q) | | | x | | x | | | | | |
| 2 x CFS28W (GR10q) | | | | | x | | | | | |
| 1 x CFS38W (GR10q) | | | | | | | | | | |
| 2 x CFS38W (GR10q) | | | | | | | | | | |
| 1 x CFS55W (GR10q) | | | | | x | | | | | |

* GEC ballast offers End of Lamp Life (EOL) protection with F32T8 lamps

Ballasts

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

CFL – Cross Reference Chart

| GE | Universal | Advance | Osram | Robertson |
|---------------|-------------------|---|--|------------------|
| GE213-MVPS-3W | C213UNVSE/BE/BES | ICF-2513-H1-LD | QTP 1/2X13CF/UNV | PSM213CQMY |
| GE218-MVPS-3W | C218UNVSE/BE/BES | ICF-2518H1-LD REL-2Q18 VEL-2Q18 R-2Q18-4P-TP V-2Q18-4P-TP | QTP1/2X18CF/UNV | PSM218CQMY |
| GE226MVPS-3W | C218UNVSE/BE/BES | ICF-2526-H1-LD REL-1T32 VEL-1T32 REL-1T32 VEL-1T42 | QTP 1X26/32/42CF/UNV QTP 2X26/UNV QTP 1/2XCF/UNV | PSM226CQMY |
| GE242-MVPS-3W | C2642UNVSE/BE/BES | ICF-2S26-M1-BS-QS ICF-2S26-M1-BS-QS ICF-2S42-M2-BS | QTP 2X26/32/42CF/UNV | PSM226CQMVDWCE/S |

Specifications: Multivolt ProLine® CFL Quick Reference Chart

| Preliminary | Lamp Type | # of Lamps | Input Volts | Dual Side/ Bottom Exit-SE | Bottom Exit with Studs - BES | 3-Way Mount Kit - 3W | Input Watts 2Lamp/ 1Lamp | Line Current 2Lamp/ 1Lamp | Power Factor 2Lamp/ 1Lamp | MAX THD % 2Lamp/ 1Lamp | Ballast Factor 2Lamp/ 1Lamp | Ballast Efficiency Factor 2Lamp/ 1Lamp | |
|----------------|-----------------|-------------|-------------|---------------------------------|------------------------------------|----------------------------|--------------------------------|------------------------------------|------------------------------------|---------------------------------|--------------------------------------|--|--|
| GEC213-MVPS-xx | CFQ13W/G24q | 2 or 1 lamp | 120 | 63101 | 63091 | 63089 | 29/16 | 0.25/16 | 0.99/96 | 10 | 1.00 | 3.45/6.25 | |
| | | | 277 | | | | 29/16 | 0.11/06 | 0.99/96 | 10 | 1.00 | 3.45/6.25 | |
| | | | 120 | | | | 29/16 | 0.25/16 | 0.99/96 | 10 | 1.00 | 3.45/6.25 | |
| | CFTR13W/GX24q | 2 or 1 lamp | 277 | | | | 29/16 | 0.11/06 | 0.99/96 | 10 | 1.00 | 3.45/6.25 | |
| | | | 120 | | | | 20 | 0.17 | 0.99 | 12 | 1.00 | 5.00 | |
| | | | 277 | | | | 20 | 0.07 | 0.97 | 12 | 1.00 | 5.00 | |
| | CFQ18W/GX24q | 1 | 120 | | | | 20 | 0.17 | 0.99 | 12 | 1.00 | 5.00 | |
| | | | 277 | | | | 20 | 0.07 | 0.97 | 12 | 1.00 | 5.00 | |
| | | | 120 | | | | 31 | 0.26 | 0.99 | 10 | 1.00 | 3.22 | |
| | F14T5 | 1 | 277 | | | | 31 | 0.12 | 0.98 | 10 | 1.00 | 3.22 | |
| | | | 120 | | | | 30 | 0.25 | 0.99 | 10 | 1.00 | 3.33 | |
| | | | 277 | | | | 30 | 0.11 | 0.98 | 10 | 1.00 | 3.33 | |
| | F13T5 | 1 | 120 | | | | 23/13 | 0.19/11 | 0.97/96 | 11/14 | 0.95/1.05 | 4.13/8.08 | |
| | | | 277 | | | | 23/13 | 0.09/05 | 0.97/96 | 11/14 | 0.95/1.05 | 4.13/8.08 | |
| | | | 120 | | | | 17 | 0.14 | 0.96 | 12 | 1.00 | 5.88 | |
| CFS10W/GR10q | 2 or 1 lamp | 277 | 17 | 0.06 | 0.96 | 12 | 1.00 | 5.88 | | | | | |
| | | 120 | 35/19 | 0.3/16 | 0.99/97 | 10 | 0.95/1.00 | 2.71/5.26 | | | | | |
| | | 277 | 35/19 | 0.13/07 | 0.99/97 | 10 | 0.95/1.0 | 2.71/5.26 | | | | | |
| GEC218-MVPS-xx | CFQ26W/G24q | 2 or 1 lamp | 120 | 63096 | 63098 | 63093 | 39/20 | 0.33/17 | 0.97 | 10 | 1.05 | 2.69/5.25 | |
| | | | 277 | | | | 39/20 | 0.14/08 | 0.99/97 | 10 | 1.05 | 2.69/5.25 | |
| | | | 120 | | | | 28 | 0.24 | 0.99 | 12 | 1.00 | 3.57 | |
| | CFTR18W/GX24q | 2 or 1 lamp | 277 | | | | 28 | 0.10 | 0.96 | 12 | 1.00 | 3.57 | |
| | | | 120 | | | | 28 | 0.24 | 0.99 | 12 | 1.00 | 3.57 | |
| | | | 277 | | | | 28 | 0.10 | 0.96 | 12 | 1.00 | 3.57 | |
| | CFQ26W/G24q | 1 | 120 | | | | 40/20 | 0.33/16 | 0.99/97 | 10/15 | 0.91/9 | 2.28/4.5 | |
| | | | 277 | | | | 40/20 | .14/07 | 0.99/97 | 10/15 | 0.91/90 | 2.28/4.5 | |
| | | | 120 | | | | 37 | 0.31 | 0.99 | 10 | 1.00 | 2.70 | |
| | CFTR26W/GX24q | 1 | 277 | | | | 37 | 0.13 | 0.99 | 10 | 1.00 | 2.70 | |
| | | | 120 | | | | 31 | 0.26 | 0.99 | 10 | 1.00 | 3.23 | |
| | | | 277 | | | | 31 | 0.11 | 0.97 | 10 | 1.00 | 3.23 | |
| | CFS21W/GR10q | 2 or 1 lamp | 120 | | | | 51/27 | 0.43/23 | 0.99/98 | 10 | 1.00 | 1.96/3.7 | |
| | | | 277 | | | | 51/27 | 0.19/1 | 0.99/98 | 10 | 1.00 | 1.96/3.7 | |
| | | | 120 | | | | 54/29 | 0.45/24 | 0.99 | 10 | 1/1.1 | 1.85/3.79 | |
| CFS16W/GR10q | 2 | 277 | 54/29 | 0.2/11 | 0.99/98 | 10 | 1/1.1 | 1.85/3.79 | | | | | |
| | | 120 | 46 | 0.38 | 0.98 | 10 | 0.98 | 2.13 | | | | | |
| | | 277 | 46 | 0.17 | 0.98 | 10 | 0.98 | 2.13 | | | | | |
| CFS28W/GR10q | 1 | 120 | 36 | 0.31 | 0.98 | 10 | 0.98 | 2.72 | | | | | |
| | | 277 | 36 | 0.13 | 0.98 | 10 | 0.98 | 2.72 | | | | | |
| | | 120 | 51 | 0.04 | 0.99 | 10 | 1.12 | 2.20 | | | | | |
| CFQ26W/G24q | 2 or 1 lamp | 277 | 51 | 0.18 | 0.99 | 10 | 1.12 | 2.20 | | | | | |
| | | 120 | 36 | 0.30 | 0.99 | 10 | 0.93 | 2.58 | | | | | |
| | | 277 | 36 | 0.13 | 0.97 | 12 | 0.93 | 2.58 | | | | | |
| CFTR26W/GX24q | 2 or 1 lamp | 277 | 48 | 0.41 | 0.99 | 10 | 0.93 | 1.94 | | | | | |
| | | 120 | 48 | 0.18 | 0.9 | 10 | 0.93 | 1.94 | | | | | |
| | | 277 | 51 | 0.44 | 0.99 | 10 | 1.00 | 1.96 | | | | | |
| CFTR42W/GX24q | 1 | 120 | 51 | 0.19 | 0.98 | 10 | 1.00 | 1.96 | | | | | |
| | | 277 | 43 | 0.36 | 0.99 | 10 | 1.00 | 2.33 | | | | | |
| | | 120 | 43 | 0.16 | 0.97 | 10 | 1.00 | 2.33 | | | | | |
| CFTR32W/GX24q | 1 | 277 | 94/47 | 0.77/4 | 1.00 | 10 | 1.00 | 1.14/2.13 | | | | | |
| | | 120 | 93/47 | 0.38/18 | 1.00 | 10 | 1.00 | 1.08/2.13 | | | | | |
| | | 277 | 63/42 | 0.53/35 | 0.95/96 | 10 | 0.95/96 | 1.51/2.29 | | | | | |
| CFS21W/GR10q | 2 | 277 | 63/42 | 0.23/13 | 0.95/96 | 12 | 0.95/96 | 1.51/2.29 | | | | | |
| | | 120 | 54/32 | 0.45/27 | 0.9/1.0 | 10 | 0.9/1.0 | 1.67/3.12 | | | | | |
| | | 277 | 54/32 | 0.21/13 | 0.9/1.0 | 12 | 0.9/1.0 | 1.67/3.12 | | | | | |
| FT18W/2G11 | 2 | 120 | 63/33 | 0.52/27 | 0.78/8 | 10 | 0.78/8 | 1.25/2.45 | | | | | |
| | | 277 | 62/33 | 0.23/13 | 0.79/80 | 10/15 | 0.79/8 | 1.27/2.44 | | | | | |
| | | 120 | 82/45 | 0.69/37 | 0.95/1.0 | 10 | 0.95/1.0 | 1.16/2.22 | | | | | |
| FT24W/2G11 | 2 | 277 | 82/45 | 0.3/17 | 0.95/1.0 | 10/12 | 0.95/1.0 | 1.16/2.22 | | | | | |
| | | 120 | 70/37 | 0.59/31 | 0.8/84 | 10 | 0.8/84 | 1.13/2.24 | | | | | |
| | | 277 | 70/37 | 0.26/14 | 0.81/84 | 10/15 | 0.81/84 | 1.15/2.24 | | | | | |
| FT24W/2G11 | 2 or 1 lamp | 120 | 52/28 | 0.44/23 | 1.10 | 10 | 1.10 | 2.11/3.97 | | | | | |
| | | 277 | 52/28 | 0.19/11 | 1.1/1.11 | 12 | 1.1/1.11 | 2.11/3.92 | | | | | |
| | | 120 | 58 | 0.49 | 1.00 | 10 | 1.00 | 1.72 | | | | | |
| F24T5 HO | 2 | 277 | 58 | 0.22 | 1.00 | 12 | 1.00 | 1.72 | | | | | |
| | | 120 | 73 | 0.61 | 1.00 | 10 | 1.00 | 1.37 | | | | | |
| | | 277 | 73 | 0.27 | 1.00 | 12 | 1.00 | 1.37 | | | | | |
| FC12T5 40W | 2 or 1 lamp | 277 | 43 | 0.36 | 0.71 | 10 | 0.71 | 1.65 | | | | | |
| | | 120 | 44 | 0.16 | 0.72 | 12 | 0.72 | 1.66 | | | | | |
| | | 277 | 82/45 | 0.69/37 | 0.95/1.00 | 10 | 0.95/1.00 | 1.16/2.22 | | | | | |
| FC9T6 22W | 2 or 1 lamp | 277 | 82/45 | 0.3/17 | 0.95/1.00 | 10/12 | 0.95/1.00 | 1.16/2.22 | | | | | |
| | | 120 | 63/33 | 0.52/27 | 0.78/80 | 10 | 0.78/80 | 1.25/2.45 | | | | | |
| | | 277 | 62/33 | 0.23/13 | 0.79/80 | 10/15 | 0.79/8 | 1.27/2.44 | | | | | |
| CFTR57W/GX24q | 1 | 277 | 54/26 | 0.45/22 | 1/92 | 10 | 1/92 | 1.85/3.56 | | | | | |
| | | 120 | 54/27 | 0.2/1 | 1/92 | 12/15 | 1/92 | 1.85/3.48 | | | | | |
| | | 277 | 60/34 | 0.5/29 | 0.95/1.0 | 10 | 0.95/1 | 1.6/2.94 | | | | | |
| CFTR70W/GX24q | 1 | 277 | 60/34 | 0.22/14 | 0.97/1.00 | 10/15 | 0.97/1.0 | 1.62/2.94 | | | | | |
| | | 120 | 67 | 0.55 | 0.90 | 10 | 0.90 | 1.34 | | | | | |
| | | 277 | 67 | 0.25 | 0.90 | 10 | 0.90 | 1.34 | | | | | |
| FT55W/2G11 | 1 | 277 | 33 | 0.28 | 0.49 | 10 | 0.49 | 1.48 | | | | | |
| | | 120 | 32 | 0.13 | 0.49 | 10 | 0.49 | 1.53 | | | | | |
| | | 277 | | | | | | | | | | | |
| FT40W/2G11 | 2 or 1 lamp | 277 | | | | | | | | | | | |
| | | 120 | | | | | | | | | | | |
| | | 277 | | | | | | | | | | | |
| FT36W/2G11 | 2 or 1 lamp | 277 | | | | | | | | | | | |
| | | 120 | | | | | | | | | | | |
| | | 277 | | | | | | | | | | | |
| FT24W/2G11 | 2 or 1 lamp | 277 | | | | | | | | | | | |
| | | 120 | | | | | | | | | | | |
| | | 277 | | | | | | | | | | | |
| CFS28W/GR10q | 2 or 1 lamp | 277 | | | | | | | | | | | |
| | | 120 | | | | | | | | | | | |
| | | 277 | | | | | | | | | | | |
| FC9T5+FC12T5 | 1+1 | 277 | | | | | | | | | | | |
| | | 120 | | | | | | | | | | | |
| | | 277 | | | | | | | | | | | |
| GEC242-MVPS-xx | CFS55W/GRY10Q-3 | 1 | 277 | 63101 | 63102 | 63100 | | | | | | | |
| | | | 120 | | | | | | | | | | |
| | | | 277 | | | | | | | | | | |

Ballasts
T8 Instant Start
T8 Programmed Start
T8/T5 Dimming
T5 Electronic Programmed Start
T12 Electronic & High Output
Magnetic
Sign
Compact Fluorescent
HID Electronic & Electromagnetic

ProLine® CFL Electronic Ballasts

Compact Fluorescent Ballasts For 13 – 70W T4 CFL Lamps

63091 – GEC213-MVPS-BES
63092 – GEC213-MVPS-SE
63089 – GEC213-MVPS-3W

ProLine® CFL Electronic Ballasts
 2 or 1 – CFQ13W/G24q 120-227V ProLine® PS

- Multi-voltage technology means a single ballast handles voltage from 108V to 305V
- Programmed starting for extended lamp life
- End-of-Lamp-Life protection
- Color coded poke-in connectors simplifies wiring

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 104°F (40°C) |
| Case Temperature (MAX) | 70 °C (158 °F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | End-of-Life Protection (EOL), Thermally protected, Universal voltage |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|---------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 63089, 63092, 63091 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | TOH % (<=) | Min. Starting Temp (°F/°C) |
|---------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|------------|----------------------------|
| CFQ13W/G24q | 2 | 120 | 32 | 0.26 A | 1.04 | 3.30 | 99 | 1.7 | 10 | -20 / -29 |
| | 2 | 277 | 32 | 0.12 A | 1.04 | 3.30 | 96 | 1.7 | 10 | -20 / -29 |
| | 1 | 120 | 15 | 0.19 A | 1.09 | 7.30 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 15 | 0.06 A | 1.09 | 7.30 | 89 | 1.7 | 18 | -20 / -29 |
| CFTR13W/GX24q | 2 | 120 | 32 | 0.27 A | 1.07 | 3.30 | 99 | 1.7 | 10 | -20 / -29 |
| | 2 | 277 | 32 | 0.12 A | 1.07 | 3.30 | 96 | 1.7 | 10 | -20 / -29 |
| | 1 | 120 | 16 | 0.13 A | 1.10 | 6.90 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 16 | 0.07 A | 1.10 | 6.90 | 88 | 1.7 | 18 | -20 / -29 |
| CFS10W/GR10q | 2 | 120 | 26 | 0.22 A | 1.06 | 4.10 | 99 | 1.7 | 10 | -20 / -29 |
| | 2 | 277 | 25 | 0.10 A | 1.06 | 4.20 | 94 | 1.7 | 11 | -20 / -29 |
| | 1 | 120 | 13 | 0.10 A | 1.09 | 8.40 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 13 | 0.07 A | 1.09 | 8.40 | 84 | 1.7 | 21 | -20 / -29 |
| CFQ18W/G24q | 1 | 120 | 19 | 0.16 A | 0.99 | 5.20 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 19 | 0.07 A | 0.99 | 5.20 | 89 | 1.7 | 16 | -20 / -29 |
| CFTR18W/GX24q | 1 | 120 | 19 | 0.16 A | 0.96 | 5.10 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 19 | 0.08 A | 0.96 | 5.10 | 88 | 1.7 | 15 | -20 / -29 |
| CFS16W/GR10q | 1 | 120 | 17 | 0.14 A | 1.00 | 5.90 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 17 | 0.07 A | 1.00 | 5.90 | 90 | 1.7 | 16 | -20 / -29 |

Safety and performance

FCC Part 18 Class B  UL Class P  UL Type 1 Outdoor No PCB's ANSI Standard C82.11-Cons 2002 ANSI Standard C62.41-1991

Dimensions

Wiring diagram – CFL 1-2 – see example on page 17-15

Case dimensions – Ref Drawing -13 – see page 17-17

| Physical Parameters | 3W | BES | SE |
|---------------------|-----------------|------------------|-----------------|
| Length (L) | 5.0 in (127 mm) | 4.26 in (107 mm) | 5.0 in (127 mm) |
| Width (W) | 2.4 in (61 mm) | 2.4 in (61 mm) | 2.4 in (61 mm) |
| Height (H) | 1.0 in (25 mm) | 1.0 in (25 mm) | 1.0 in (25 mm) |

Mounting dimensions

| | |
|----------------------------------|-----------------------------------|
| Bracket Length (BL) | |
| Mount Length (M) | 4.63 in (118 mm) |
| Mount Width (X or F) | 2.4 in (61 mm) |
| Mount Slots (MS) | |
| Weight | 0.381 lbs 0.423 lbs 0.395 lbs |
| Exit Type | Dual Entry (SE/BE, BES, 3W) |
| Remote Mounting Distance to Lamp | 20 ft |
| Remote Mounting Wire Gauge | 18 AWG |

ProLine® CFL Electronic Ballasts

Compact Fluorescent Ballasts For 13 – 70W T4 CFL Lamps

- 63094 – GEC218-MVPS-BES**
- 63096 – GEC218-MVPS-SE**
- 63093 – GEC218-MVPS-3W**

ProLine® CFL Electronic Ballasts

2 or 1 – CFQ18W/G24q 120-227V ProLine® PS

- Multi-voltage technology means a single ballast handles voltage from 108V to 305V
- Programmed starting for extended lamp life
- End-of-Lamp-Life protection
- Color coded poke-in connectors simplifies wiring

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid start |
| Starting Method | Programmed start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 104°F (40°C) |
| Case Temperature (MAX) | 70°C (158 °F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Thermally protected, Universal voltage |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------------------|-------------|----------|---------|
| 63093, 63096, 63094 | | | |

Dimensions

Wiring diagram – CFL 1-2 – see example on page 17-15

Case dimensions – Ref Drawing -13 – see page 17-17

| Physical Parameters | 3W | BES | SE |
|---------------------|-----------------|------------------|-----------------|
| Length (L) | 5.0 in (127 mm) | 4.26 in (107 mm) | 5.0 in (127 mm) |
| Width (W) | 2.4 in (61 mm) | 2.4 in (61 mm) | 2.4 in (61 mm) |
| Height (H) | 1.0 in (25 mm) | 1.0 in (25 mm) | 1.0 in (25 mm) |

Mounting dimensions

| | |
|----------------------------------|-----------------------------------|
| Bracket Length (BL) | |
| Mount Length (M) | 4.63 in (118 mm) |
| Mount Width (X or F) | 2.4 in (61 mm) |
| Mount Slots (MS) | |
| Weight | 0.412 lbs 0.454 lbs 0.426 lbs |
| Exit Type | Dual Entry (SE/BE, BES, 3W) |
| Remote Mounting Distance to Lamp | 20 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | TQH % (<=) | Min. Starting Temp (°F/°C) |
|---------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|------------|----------------------------|
| CFQ18W/G24q | 2 | 120 | 43 | 0.35 A | 1.05 | 2.40 | 99 | 1.7 | 10 | -20 / -29 |
| | 2 | 277 | 42 | 0.15 A | 1.05 | 2.50 | 96 | 1.7 | 10 | -20 / -29 |
| | 1 | 120 | 21 | 0.17 A | 1.08 | 5.10 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 21 | 0.08 A | 1.08 | 5.10 | 88 | 1.7 | 15 | -20 / -29 |
| | 2 | 120 | 44 | 0.37 A | 1.04 | 2.40 | 99 | 1.7 | 10 | -20 / -29 |
| | 2 | 277 | 43 | 0.16 A | 1.04 | 2.40 | 96 | 1.7 | 10 | -20 / -29 |
| CFTR18W/GX24q | 1 | 120 | 22 | 0.19 A | 1.07 | 4.90 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 22 | 0.08 A | 1.07 | 4.90 | 87 | 1.7 | 14 | -20 / -29 |
| | 2 | 120 | 45 | 0.38 A | 0.86 | 1.90 | 99 | 1.7 | 10 | -20 / -29 |
| | 2 | 277 | 44 | 0.16 A | 0.86 | 2.00 | 96 | 1.7 | 10 | -20 / -29 |
| | 1 | 120 | 22 | 0.19 A | 0.93 | 4.20 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 22 | 0.09 A | 0.93 | 4.20 | 88 | 1.7 | 15 | -20 / -29 |
| CFS21W/GR10q | 2 | 120 | 39 | 0.32 A | 1.00 | 2.60 | 99 | 1.7 | 10 | -20 / -29 |
| | 2 | 277 | 38 | 0.14 A | 1.00 | 2.60 | 95 | 1.7 | 10 | -20 / -29 |
| CFS16W/GR10q | 1 | 120 | 22 | 0.19 A | 0.91 | 4.10 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 22 | 0.09 A | 0.92 | 4.20 | 89 | 1.7 | 14 | -20 / -29 |
| CFQ26W/GX24q | 1 | 120 | 26 | 0.21 A | 0.85 | 3.30 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 26 | 0.10 A | 0.85 | 3.30 | 89 | 1.7 | 14 | -20 / -29 |
| CFTR26W/GX24q | 1 | 120 | 25 | 0.21 A | 0.87 | 3.50 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 25 | 0.10 A | 0.87 | 3.50 | 91 | 1.7 | 13 | -20 / -29 |

Safety and performance

FCC Part 18 Class B  UL Class P  UL Type 1 Outdoor No PCB's ANSI Standard C82.11-Cons 2002 ANSI Standard C62.41-1991

ProLine® CFL Electronic Ballasts

Compact Fluorescent Ballasts For 13 – 70W T4 CFL Lamps

63098 – GEC226-MVPS-BES

63099 – GEC226-MVPS-SE

63097 – GEC226-MVPS-3W

ProLine® CFL Electronic Ballasts

2 – CFQ26W, FT24 or 1 – 24W CFTR32 120-227V ProLine® PS

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid start |
| Starting Method | Programmed start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 104°F (40°C) |
| Case Temperature (MAX) | 75°C (167°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto restart, Thermally protected, Universal voltage |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------------------|-------------|----------|---------|
| 63098, 63099, 63097 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | TQH % (<=) | Min. Starting Temp (°F/°C) |
|---------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|------------|----------------------------|
| CFQ26W/G24q | 2 | 120 | 56 | 0.47 A | 1.02 | 1.82 | 99 | 1.7 | 10 | -20 / -29 |
| | 2 | 277 | 54 | 0.20 A | 1.02 | 1.89 | 97 | 1.7 | 11 | -20 / -29 |
| | 1 | 120 | 30 | 0.25 A | 1.04 | 3.47 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 30 | 0.12 A | 1.04 | 3.47 | 93 | 1.7 | 13 | -20 / -29 |
| | 2 | 120 | 64 | 0.53 A | 0.97 | 1.52 | 99 | 1.7 | 10 | -20 / -29 |
| | 2 | 277 | 64 | 0.23 A | 0.88 | 1.38 | 97 | 1.7 | 12 | -20 / -29 |
| CFTR26W/GX24q | 1 | 120 | 32 | 0.26 A | 10.01 | 3.16 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 32 | 0.12 A | 1.00 | 3.16 | 94 | 1.7 | 13 | -20 / -29 |
| CFS21W/GR10q | 2 | 120 | 56 | 0.47 A | 1.12 | 2.00 | 99 | 1.7 | 10 | -20 / -29 |
| | 2 | 277 | 55 | 0.20 A | 1.11 | 2.02 | 96 | 1.7 | 11 | -20 / -29 |
| CFTR42W/GX24q | 1 | 120 | 51 | 0.42 A | 0.92 | 1.80 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 50 | 0.18 A | 0.92 | 1.84 | 97 | 1.7 | 12 | -20 / -29 |
| | 1 | 120 | 39 | 0.33 A | 1.24 | 3.18 | 99 | 1.7 | 10 | -20 / -29 |
| CFTR32W/GX24q | 1 | 277 | 39 | 0.15 A | 1.23 | 3.15 | 95 | 1.7 | 13 | -20 / -29 |
| | 1 | 120 | 40 | 0.33 A | 0.89 | 2.23 | 99 | 1.7 | 10 | -20 / -29 |
| FC16T9 40W | 1 | 277 | 40 | 0.14 A | 0.94 | 2.35 | 95 | 1.7 | 13 | -20 / -29 |
| | 1 | 120 | 27 | 0.23 A | 1.04 | 3.85 | 99 | 1.7 | 10 | -20 / -29 |
| FT24W/2G11 | 1 | 277 | 27 | 0.11 A | 1.10 | 4.07 | 91 | 1.7 | 14 | -20 / -29 |
| | 1 | 120 | 35 | 0.29 A | 0.94 | 2.69 | 99 | 1.7 | 10 | -20 / -29 |
| FT36W/2G11 | 1 | 277 | 35 | 0.13 A | 0.94 | 2.69 | 94 | 1.7 | 13 | -20 / -29 |
| | 1 | 120 | 33 | 0.27 A | 0.97 | 2.94 | 99 | 1.7 | 10 | -20 / -29 |
| FT39W/2G11 | 1 | 277 | 33 | 0.12 A | 0.98 | 2.97 | 94 | 1.7 | 14 | -20 / -29 |

Safety and performance

FCC Part 18 Class B  UL Class P  UL Type 1 Outdoor No PCB's ANSI Standard C82.11-Cons 2002 ANSI Standard C62.41-1991

- Multi-voltage technology means a single ballast handles voltage from 108V to 305V
- Programmed starting for extended lamp life
- End-of-Lamp-Life protection
- Color coded poke-in connectors simplifies wiring

Dimensions

Wiring diagram – CFL 1-2 – see example on page 17-15

Case dimensions – Ref Drawing -13 – see page 17-17

| Physical Parameters | 3W | BES | SE |
|---------------------|-----------------|------------------|-----------------|
| Length (L) | 5.0 in (127 mm) | 4.26 in (107 mm) | 5.0 in (127 mm) |
| Width (W) | 2.4 in (61 mm) | 2.4 in (61 mm) | 2.4 in (61 mm) |
| Height (H) | 1.0 in (25 mm) | 1.0 in (25 mm) | 1.0 in (25 mm) |

Mounting dimensions

| | | | |
|----------------------------------|-----------------------------|-----------|-----------|
| Bracket Length (BL) | | | |
| Mount Length (M) | 4.63 in (118 mm) | | |
| Mount Width (X or F) | 2.4 in (61 mm) | | |
| Mount Slots (MS) | | | |
| Weight | 0.419 lbs | 0.461 lbs | 0.434 lbs |
| Exit Type | Dual Entry (SE/BE, BES, 3W) | | |
| Remote Mounting Distance to Lamp | 12 ft | | |
| Remote Mounting Wire Gauge | 18 AWG | | |

ProLine® CFL Electronic Ballasts

Compact Fluorescent Ballasts For 13 – 70W T4 CFL Lamps

63101 – GEC242-MVPS-BES (replaces 47506)

63102 – GEC242-MVPS-SE (replaces 47509)

63100 – GEC242-MVPS-3W

ProLine® CFL Electronic Ballasts

2 – 42/36/32/28/26/24 watt 120-277V Proline® PS

- Electronic compact fluorescent ballasts for all general fluorescent applications
- Low-profile case

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid start |
| Starting Method | Programmed start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 122°F (50°C) |
| Case Temperature (MAX) | 75°C (167°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto restart, Thermally protected, Universal voltage |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|---------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 63101, 63102, 63100 | | | |

| Dimensions | |
|--|-----------------------------|
| Wiring diagram – CFL 1-2 – see example on page 17-15 | |
| Case dimensions – Ref Drawing 13 – see page 17-17 | |
| Length (L) | 5 in (127 mm) |
| Width (W) | 3.0 in (76 mm) |
| Height (H) | 1.38 in (35 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | 4.63 in (118 mm) |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| Weight | 0.90 lbs |
| Exit Type | Dual Entry (SE/BE, BES, 3W) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
|---------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| CFTR42W/GX24q | 2 | 120 | 94 | 0.77 A | 1.00 | 1.14 | 0.99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 93 | 0.38 A | 1.00 | 1.08 | 0.98 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 47 | 0.40 A | 1.00 | 2.13 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 47 | 0.18 A | 1.00 | 2.13 | 0.96 | 1.7 | 10 | 0/-18 |
| CFTR32W/GX24q | 2 | 120 | 63 | 0.53 A | 0.95 | 1.51 | 0.99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 63 | 0.23 A | 0.95 | 1.51 | 0.98 | 1.7 | 12 | 0/-18 |
| | 1 | 120 | 42 | 0.35 A | 0.96 | 2.29 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 42 | 0.13 A | 0.96 | 2.29 | 0.96 | 1.7 | 12 | 0/-18 |
| CFQ26W/G24q | 2 | 120 | 54 | 0.45 A | 0.90 | 1.67 | 0.99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 54 | 0.21 A | 0.90 | 1.67 | 0.97 | 1.7 | 12 | 0/-18 |
| CFTR26W/GX24q | 1 | 120 | 32 | 0.27 A | 1.00 | 3.12 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 32 | 0.13 A | 1.00 | 3.12 | 0.95 | 1.7 | 12 | 0/-18 |
| CFM36W/2G10 | 2 | 120 | 63 | 0.52 A | 0.78 | 1.25 | 0.99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 62 | 0.23 A | 0.79 | 1.27 | 0.98 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 33 | 0.27 A | 0.80 | 2.45 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 33 | 0.13 A | 0.80 | 2.44 | 0.94 | 1.7 | 15 | 0/-18 |
| ET39W/2G11 | 2 | 120 | 82 | 0.69 A | 0.95 | 1.16 | 0.99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 82 | 0.30 A | 0.95 | 1.16 | 0.98 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 45 | 0.37 A | 1.00 | 2.22 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 45 | 0.17 A | 1.00 | 2.22 | 0.96 | 1.7 | 12 | 0/-18 |
| FC12T5 40W | 2 | 120 | 70 | 0.59 A | 0.80 | 1.13 | 0.99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 70 | 0.26 A | 0.81 | 1.15 | 0.98 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 37 | 0.31 A | 0.84 | 2.24 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 37 | 0.14 A | 0.84 | 2.24 | 0.95 | 1.7 | 15 | 0/-18 |
| FC9T5 22W | 2 | 120 | 52 | 0.44 A | 1.10 | 2.11 | 0.99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 52 | 0.19 A | 1.10 | 2.11 | 0.97 | 1.7 | 12 | 0/-18 |
| | 1 | 120 | 28 | 0.23 A | 1.10 | 3.97 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 28 | 0.11 A | 1.11 | 3.92 | 0.93 | 1.7 | 12 | 0/-18 |
| CFTR57W/GX24q | 1 | 120 | 58 | 0.49 A | 1.0 | 1.72 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 58 | 0.22 A | 1.0 | 1.72 | 0.97 | 1.7 | 12 | 0/-18 |
| CFTR70W/GX24q | 1 | 120 | 73 | 0.61 A | 1.0 | 1.37 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 73 | 0.27 A | 1.0 | 1.37 | 0.97 | 1.7 | 12 | 0/-18 |
| FT55W/2G11 | 1 | 120 | 43 | 0.36 A | 0.71 | 1.65 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 44 | 0.16 A | 0.72 | 1.66 | 0.96 | 1.7 | 12 | 0/-18 |
| FT40W/2G11 | 2 | 120 | 82 | 0.69 A | 0.95 | 1.16 | 0.99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 82 | 0.30 A | 0.95 | 1.16 | 0.98 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 45 | 0.37 A | 1.00 | 2.22 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 45 | 0.17 A | 1.00 | 2.22 | 0.96 | 1.7 | 12 | 0/-18 |
| FT36W/2G11 | 2 | 120 | 63 | 0.52 A | 0.78 | 1.25 | 0.99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 62 | 0.23 A | 0.79 | 1.27 | 0.98 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 33 | 0.27 A | 0.80 | 2.45 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 33 | 0.13 A | 0.80 | 2.44 | 0.94 | 1.7 | 15 | 0/-18 |
| FT24W/2G11 | 2 | 120 | 54 | 0.45 A | 1.00 | 1.85 | 0.99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 54 | 0.20 A | 1.00 | 1.85 | 0.97 | 1.7 | 12 | 0/-18 |
| | 1 | 120 | 26 | 0.22 A | 0.92 | 3.56 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 27 | 0.10 A | 0.92 | 3.48 | 0.92 | 1.7 | 15 | 0/-18 |
| CFS28W/GR10q | 2 | 120 | 60 | 0.50 A | 0.95 | 1.60 | 0.99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 60 | 0.22 A | 0.97 | 1.62 | 0.98 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 34 | 0.29 A | 1.00 | 2.94 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 34 | 0.14 A | 1.00 | 2.94 | 0.93 | 1.7 | 15 | 0/-18 |
| FC9T5+FC12T5 | 1+1 | 120 | 67 | 0.55 A | 0.90 | 1.34 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1+1 | 277 | 67 | 0.25 A | 0.90 | 1.34 | 0.98 | 1.7 | 10 | 0/-18 |
| GRY10q-3 | 1 | 120 | 33 | 0.28 A | 0.49 | 1.48 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 32 | 0.13 A | 0.49 | 1.53 | 0.94 | 1.7 | 10 | 0/-18 |

Safety and performance FCC Part 18 Class B at 120 volts  UL Class P  UL Listed  cUL

Ballasts
T8 Instant Start
T8 Programmed Start
T8/T5 Dimming
T5 Electronic Programmed Start
T12 Electronic & High Output
Magnetic
Sign
Compact Fluorescent
HID Electronic & Electromagnetic

High-Lumen Biax® UltraMax® Instant Start Compact Fluorescent Ballasts

75948 – GEC140MAX-A

High-Lumen Biax® UltraMax® Instant Start

1 – FT40W-25W/2G11 Biax - 120-277V UltraMax® Instant Start

- Electronic compact fluorescent ballasts for all general fluorescent applications
- Low-profile case
- Multi-Voltage technology handles voltage from 120 to 277V
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Anti-Striation Control for better light quality, with no striations
- Lamp End-of-Life Safety Shutdown Circuit with Re-Lamping Auto-reset

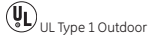

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Standard Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70 °C (158 °F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | End-of-Life Protection (EOL), Thermally protected |

| Electrical characteristics | |
|----------------------------|--------------|
| Supply Current Frequency | 50 Hz /60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75948 | | | |

| Dimensions | |
|--|-----------------|
| Wiring diagram – CFL IS1 – see example on page 17-16 | |
| Case dimensions – Ref Drawing -A – see page 17-17 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (+ 1 in) |
| Blue | 31 in (787 mm) |
| Red | 31 in (787 mm) |
| White | 25 in (635 mm) |
| Black | 25 in (635 mm) |

| Specifications by lamp and wattage | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|----------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | Ballast Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (*F/°C) |
| FT40W/4P | 1 | 120 | 38 | 0.32 A | 0.90 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 38 | 0.14 A | 0.90 | 95 | 1.7 | 10 | 0/-18 |
| FT40W/28W/4P | 1 | 120 | 34 | 0.29 A | 1.00 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 34 | 0.13 A | 1.00 | 95 | 1.7 | 10 | 0/-18 |
| FT40W/25W/4P | 1 | 120 | 31 | 0.25 A | 1.00 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 31 | 0.12 A | 1.00 | 90 | 1.7 | 10 | 0/-18 |
| E32T8 | 1 | 120 | 33 | 0.27 A | 0.94 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 33 | 0.13 A | 0.94 | 95 | 1.7 | 10 | 0/-18 |
| F28T5/HE | 1 | 120 | 36 | 0.30 A | 1.10 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 36 | 0.14 A | 1.10 | 95 | 1.7 | 10 | 0/-18 |

Safety and performance      

High-Lumen Biax® UltraMax® Instant Start Compact Fluorescent Ballasts

71435 – GEC240MAX-A

High-Lumen Biax® UltraMax® Instant Start

2 or 1 – FT40W-25W/2G11 Biax - 120-277V UltraMax® Instant Start

- Electronic compact fluorescent ballasts for all general fluorescent applications
- Low-profile case
- Multi-Voltage technology handles voltage from 120 to 277V
- Energy saving, high efficiency instant start electronic ballast (> 90%)
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Anti-Striation Control for better light quality, with no striations
- Lamp End-of-Life Safety Shutdown Circuit with Re-Lamping Auto-reset

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – High Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70 °C (158 °F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | End-of-Life Protection (EOL), Thermally protected |

| Electrical characteristics | |
|----------------------------|--------------|
| Supply Current Frequency | 50 Hz /60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 71435 | | | |

| Dimensions | |
|--|-----------------|
| Wiring diagram – CFL IS2 – see example on page 17-16 | |
| Case dimensions – Ref Drawing – A – see page 17-17 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 12 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in) |
| Blue | 31 in (787 mm) |
| Red | 31 in (787 mm) |
| White | 25 in (635 mm) |
| Black | 25 in (635 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | Ballast Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
|--------------|------------|------------|--------------|-------------------|----------------|---------------------|-------------------|----------|----------------------------|
| FT40W/4P | 2 | 120 | 69 | 0.58 A | 0.90 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 68 | 0.25 A | 0.90 | 95 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 42 | 0.35 A | 1.00 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 42 | 0.16 A | 1.00 | 95 | 1.7 | 15 | 0/-18 |
| FT40W/28W/4P | 2 | 120 | 63 | 0.54 A | 1.00 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 62 | 0.23 A | 1.00 | 95 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 38 | 0.32 A | 1.11 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 38 | 0.14 A | 1.11 | 95 | 1.7 | 15 | 0/-18 |
| FT40W/25W/4P | 2 | 120 | 58 | 0.50 A | 1.00 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 57 | 0.21 A | 1.00 | 90 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 35 | 0.29 A | 1.15 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 35 | 0.13 A | 1.15 | 95 | 1.7 | 15 | 0/-18 |
| F32T8 | 2 | 120 | 63 | 0.54 A | 0.94 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 62 | 0.23 A | 0.94 | 95 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 38 | 0.32 A | 1.08 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 38 | 0.14 A | 1.08 | 95 | 1.7 | 15 | 0/-18 |
| F28T5/HE | 2 | 120 | 69 | 0.59 A | 1.10 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 68 | 0.25 A | 1.10 | 95 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 41 | 0.35 A | 1.26 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 41 | 0.15 A | 1.26 | 95 | 1.7 | 15 | 0/-18 |

Safety and performance  UL Type 1 Outdoor  UL Type HL  FCC – CLASS A Non-Consumer  UL Class P  CSA  UL Listed

High-Lumen Biax® UltraMax® Instant Start Compact Fluorescent Ballasts

71436 – GEC340MAX-A

High-Lumen Biax® UltraMax® Instant Start

3 – FT40W-25W/2G11 Biax - 120-277V UltraMax® Instant Start

General characteristics

| | |
|-------------------------------|---|
| Ballast Type | Electronic - High Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70 °C (158 °F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | End-of-Life Protection (EOL), Thermally protected |

Electrical characteristics

| | |
|--------------------------|--------------|
| Supply Current Frequency | 50 Hz /60 Hz |
|--------------------------|--------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 71436 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | Ballast Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
|--------------|------------|------------|--------------|-------------------|----------------|---------------------|-------------------|----------|----------------------------|
| FT40W/4P | 3 | 120 | 100 | 0.86 A | 0.90 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 99 | 0.36 A | 0.90 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 76 | 0.65 A | 0.98 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 75 | 0.27 A | 0.98 | 95 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 93 | 0.79 A | 1.00 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 91 | 0.33 A | 1.00 | 95 | 1.7 | 10 | 0/-18 |
| FT40W/28W/4P | 2 | 120 | 70 | 0.59 A | 1.07 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 69 | 0.25 A | 1.07 | 95 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 85 | 0.73 A | 1.00 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 84 | 0.31 A | 1.00 | 95 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 64 | 0.53 A | 1.11 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 63 | 0.23 A | 1.11 | 95 | 1.7 | 10 | 0/-18 |
| FT40W/25W/4P | 3 | 120 | 92 | 0.78 A | 0.94 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 90 | 0.33 A | 0.94 | 95 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 69 | 0.59 A | 1.03 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 68 | 0.25 A | 1.03 | 95 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 102 | 0.87 A | 1.10 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 100 | 0.37 A | 1.10 | 99 | 1.7 | 10 | 0/-18 |
| F32T8 | 2 | 120 | 76 | 0.66 A | 1.19 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 75 | 0.28 A | 1.19 | 95 | 1.7 | 10 | 0/-18 |
| F28T5/HE | 2 | 120 | 76 | 0.66 A | 1.19 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 75 | 0.28 A | 1.19 | 95 | 1.7 | 10 | 0/-18 |

- Electronic compact fluorescent ballasts for all general fluorescent applications
- Low-profile case
- Multi-Voltage technology handles voltage from 120 to 277V
- Energy saving, high efficiency instant start electronic ballast (> 90%)
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Anti-Striation Control for better light quality, with no striations
- Lamp End-of-Life Safety Shutdown Circuit with Re-Lamping Auto-reset

Dimensions

| | |
|--|-----------------|
| Wiring diagram – CFL IS3– see example on page 17-16 | |
| Case dimensions – Ref Drawing - A – see page 17-17 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 12 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Length (± 1 in) | |
| Blue | 31 in (787 mm) |
| Red | 31 in (787 mm) |
| White | 25 in (635 mm) |
| Black | 25 in (635 mm) |

Safety and performance



High-Lumen Biax® UltraStart® Programmed Start Compact Fluorescent Ballasts

71437 – GEC240MVPS-A

High-Lumen Biax® UltraStart® Programmed Start for 40W

2 or 1 – FT40W/2G11 Biax - 120-277V UltraStart® Programmed Start

- Electronic compact fluorescent ballasts for all general fluorescent applications
- Low-profile case
- Multi-Voltage technology handles voltage from 120 to 277V
- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Parallel Lamp Operation keeps lights on when one lamp fails
- Anti-Striation Control for better light quality, with no striations
- Lamp End-of-Life Safety Shutdown Circuit with Re-Lamping Auto-reset
- Starting time visually the same as instant start

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70 °C (158 °F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Thermally protected, Universal voltage |

| Electrical characteristics | |
|----------------------------|---------------|
| Supply Current Frequency | 50 Hz / 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 71437 | | | |

| Dimensions | |
|---|------------------------|
| Wiring diagram – CFL PS2 – see example on page 17-16 | |
| Case dimensions – Ref Drawing – A – see page 17-17 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 12 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| | Length (± 1 in) |
| Black | 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Yellow | 33 in (838 mm) |
| White | 25 in (635 mm) |

| Specifications by lamp and wattage | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|----------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | Ballast Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| FT40W/4P | 2 | 120 | 70 | 0.59 A | 0.90 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 69 | 0.25 A | 0.90 | 95 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 42 | 0.36 A | 1.04 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 42 | 0.17 A | 1.04 | 95 | 1.7 | 15 | 0/-18 |

Safety and performance UL Type 1 Outdoor UL Type HL FCC – CLASS A Non-Consumer UL Class P CSA UL Listed

75950 – GEC225MVPS-A

High-Lumen Biax® UltraStart® Programmed Start for 25W and 28W

2 or 1 – FT25W/2G11 Biax - 120-277V UltraStart® Programmed Start

- Electronic compact fluorescent ballasts for all general fluorescent applications
- Low-profile case
- Multi-Voltage technology handles voltage from 120 to 277V
- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Parallel Lamp Operation keeps lights on when one lamp fails
- Anti-Striation Control for better light quality, with no striations
- Lamp End-of-Life Safety Shutdown Circuit with Re-Lamping Auto-reset

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70 °C (158 °F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Thermally protected, Universal voltage |

| Electrical characteristics | |
|----------------------------|---------------|
| Supply Current Frequency | 50 Hz / 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75950 | | | |

| Dimensions | |
|---|------------------------|
| Wiring diagram – CFL PS2 – see example on page 17-16 | |
| Case dimensions – Ref Drawing – A – see page 17-17 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| | Length (± 1 in) |
| Black | 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Yellow | 33 in (838 mm) |
| White | 25 in (635 mm) |

| Specifications by lamp and wattage | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|----------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | Ballast Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| FT40W/28W/4P | 2 | 120 | 62 | 0.53 A | 1.00 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 61 | 0.23 A | 1.00 | 95 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 40 | 0.33 A | 1.17 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 40 | 0.15 A | 1.17 | 95 | 1.7 | 15 | 0/-18 |
| FT40W/25W/4P | 2 | 120 | 57 | 0.48 A | 1.00 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 56 | 0.21 A | 1.00 | 95 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 36 | 0.30 A | 1.22 | 99 | 1.7 | 10 | 0/-18 |
| FT40W/25W/4P | 1 | 277 | 36 | 0.14 A | 1.22 | 95 | 1.7 | 15 | 0/-18 |

Safety and performance UL Type 1 Outdoor UL Type HL FCC – CLASS A Non-Consumer UL Class P CSA UL Listed

CFL Magnetic Ballasts

Compact Fluorescent Ballasts For 5 – 26W Preheat CFL Lamps

87533 – GEM1CF13PH120

ProLine® CFL Magnetic Ballasts

1 – CFT/Q13W/GX23 Pre Heat 120 (4111H2P)

- Magnetic compact fluorescent ballast construction for all general fluorescent lighting

| General characteristics | |
|-------------------------------|---------------------|
| Ballast Type | Magnetic - Preheat |
| Starting Method | Preheat |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 5% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Thermally protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 87533 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| CFO13W/2P | 1 | 120 | 15 | 0.25 A | 0.90 | 6.00 | 50 | 1.7 | 10 | 50 / 10 |
| CFT13W/2P | 1 | 120 | 15 | 0.25 A | 0.90 | 6.00 | 50 | 1.7 | 10 | 50 / 10 |

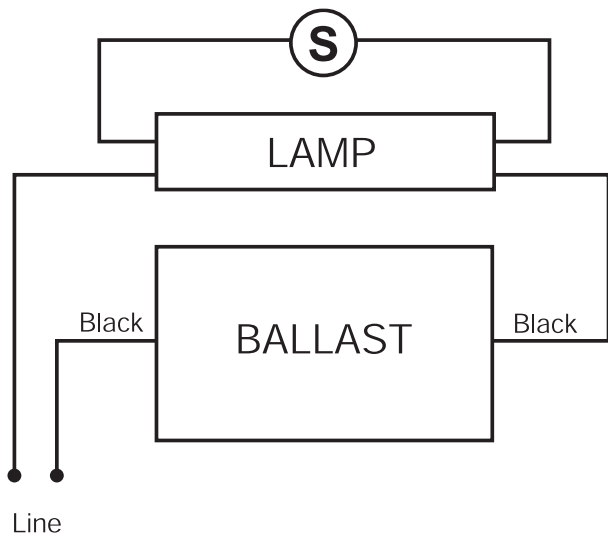
Safety and performance  UL Type HL  UL Class P  cUL Listed  UL Listed

| Dimensions | |
|--|------------------------|
| Wiring diagram – CFL 21 – see example on page 17-15 | |
| Case dimensions – Ref Drawing 2 – see page 17-17 | |
| Length (L) | 3.0 in (77 mm) |
| Width (W) | 1.25 in (32 mm) |
| Height (H) | 1.75 in (44 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | 3.0 in (77 mm) |
| Mount Length (M) | 2.75 in (70 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.2 in (6 mm) |
| Weight | 0.62 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in) |
| Black | 7 in (178 mm) |
| Black | 9 in (229 mm) |

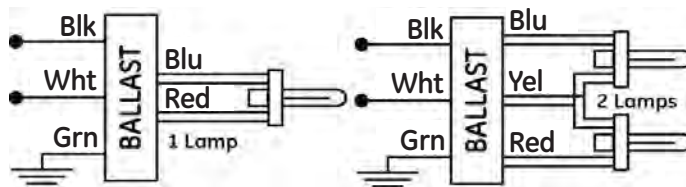
Wiring Diagrams

Compact Fluorescent Ballasts

CFL 21



CFL 1-2



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

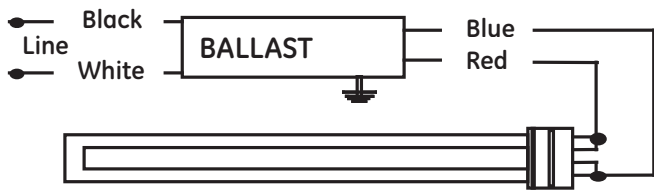
Compact Fluorescent

HID Electronic & Electromagnetic

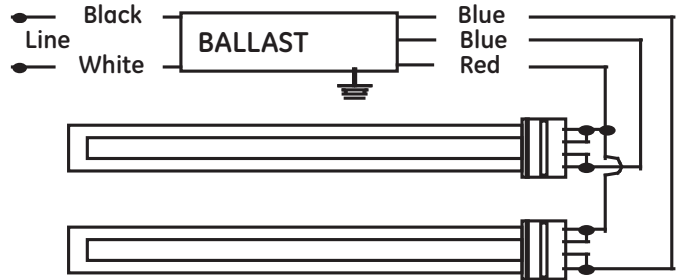
Wiring Diagrams

Compact Fluorescent Ballasts

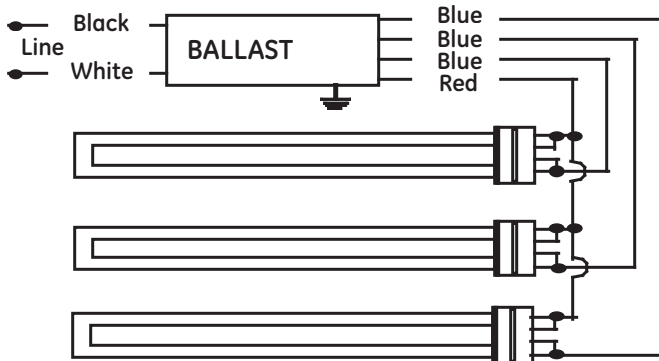
CFL IS1



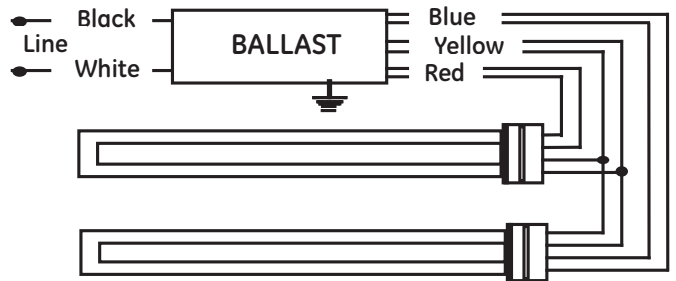
CFL IS2



CFL IS3



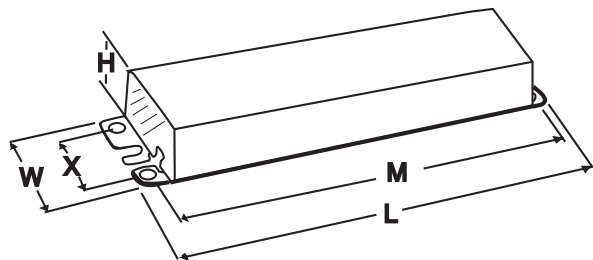
CFL PS2



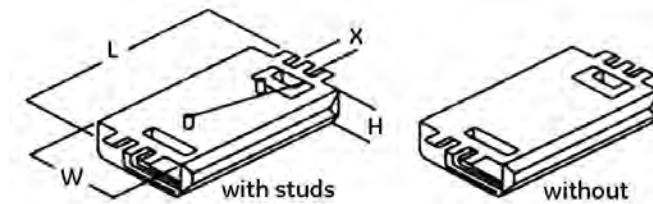
Case Dimensions

Compact Fluorescent Ballasts

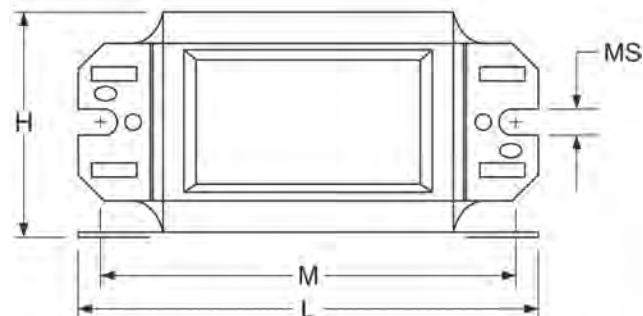
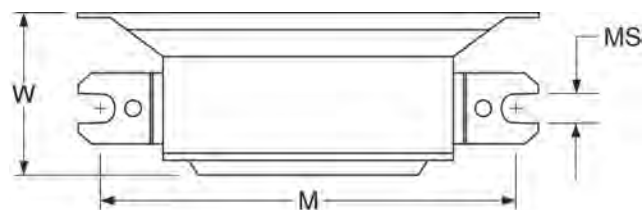
-A



13



2



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

Table of Contents

HID Electronic and Electromagnetic Ballasts

Understanding Electronic UltraMax® HID Ballasts..... 18-2

Understanding Electromagnetic HID Ballasts.....18-3

Electronic HID
 For 20 – 150W Pulse Start HID Lamps.....18-5

Metal Halide
 For 20 – 175W Metal Halide HID Lamps..... 18-12
 For 250 – 1500W Metal Halide HID Lamps..... 18-19

Pulse Start
 For 175 – 1000W Pulse Start
 Metal Halide HID Lamps 18-26

High Pressure Sodium
 For 50 – 150W High Pressure
 Sodium HID Lamps 18-37
 For 250 – 1000W High Pressure
 Sodium HID Lamps18-43

High Intensity Discharge Lamp and Ballast Kits 18-49

Enclosed and Potted Metal Halide 18-53

F-Can and Post Mount High Pressure Sodium 18-57

HID Accessories
 Replacement Igniters for
 Pulse Start Lamps (MH & HPS)..... 18-59
 Other Accessories..... 18-59

Replacement Capacitors 18-59

Capacitors and Igniters 18-60

Wiring Diagrams
 Electronic HID.....18-65
 Electromagnetic HID..... 18-67

Case Dimensions
 Electronic HID..... 18-66
 Electromagnetic HID..... 18-70

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic



Understanding Electronic UltraMax® HID Ballasts



GE offers a complete line of electronic ballasts for HID lighting systems. Electronic HID, like **electronic fluorescent systems that preceded it**, significantly improve the performance of HID lighting. Electronic UltraMax® eHID Ballasts use solid-state components to start and operate HID lamps. Electronic eHID ballasts use IC chips to control and give feedback for optimal performance of the lighting system. GE eHID ballasts improve the efficiency, maintain higher lumens, enhance lamp life and color control, and operate more quietly than the magnetic core and coil ballast that they replace.

GE's line of UltraCool™ UltraMax® eHID ballasts can provide up to 70% energy savings and four times the life of standard halogen. End users can meet strict watts per square foot requirements while achieving significant wattage savings and color control with ceramic metal halide lamps and GE eHID ballasts.

GE's UltraMax® eHID ballasts operate **only pulse start and ceramic metal halide lamps**. **GE UltraMax® eHID ballasts operate lamps at a low frequency square wave** to maximize lamp performance. Extensive analysis of all brands of lamps suggests that the most compatible driving waveform for an electronic HID electronic ballast is a low-frequency squared wave (L.F.S.W.) with higher order harmonic content. L.F.S.W. has been established as a dependable method of ballasting low-wattage HID lamps with significant industry support. Analysis of lamp data has shown that there are limited operating bands between 1 kHz to 200 kHz in which electronic ballast could operate a lamp wattage family without causing unacceptable arc instability due to acoustic resonance. GE's UltraMax® eHID constantly measures and adjusts the wattage, optimizing the ceramic metal halide lamp performance.

GE high-wattage eHID ballasts will operate 250, 300, 320,350 or 400 watt pulse start or ceramic metal halide lamps with one ballast. The eHID Ballast with a PulseArc lamp will produce 70% more lumens per watt than the obsolete probe start magnetic core and coil system. Variable dimming to 50% power reduction is an option with GE eHID high wattage ballast.

GE Ballast HID Electronic nomenclature

| G E M H 1 0 0 M S F - 1 2 0 | | | |
|---|--|---|--|
| GE Ballast GEMH = Electronic MH Lamp Watts | Housing MA=Metal Housing ML=Mini Slim MS=Mini Square SL= Slim Line E=PCB board | Connector F = Side leads w/ feet N = Side leads no feet J = Bottom leads w/ studs JN = Bottom leads no studs | Voltage 120 = 120 volt 277 = 277 volt 347 = 347 volt 480 = 480 volt MV = 120-277 volts |
| | | | Pack Type No extension = Standard Distributor Pack B= Bulk pack |



Understanding Electromagnetic HID Ballasts



GE offers High Intensity Discharge (HID) ballasts for mercury, probe start metal halide, pulse start metal halide and high pressure sodium lamps. Standard metal halide lamps or probe start metal halide over 150 watts, like fluorescent, are electric discharge lamps and require an open circuit voltage of nearly two times the operating voltage to initiate the arc between the two electrodes in the arc tube. High pressure sodium, pulse start metal halide and probe start metal halide lamps 150 watts or less require an igniter to initiate the high voltage to start the lamps. The ballasts provide the starting voltage with the igniter, where required, and provides stability for the lamp. HID lamps have negative impedance characteristics and would draw current until destruction unless a ballast was in place to regulate the current.

HID lamps take several minutes to warm-up and reach full light output. If power is interrupted between the lamp and the ballast, the arc will extinguish and lamp will go out. The lamp must cool down and reduce the vapor pressure before it will re-start. Typical warm-up and restrike times are as follows:

| Light Source | Warm-Up Time | Restrike Time |
|----------------------------|--------------|---------------|
| Metal Halide (Probe Start) | 3-4 minutes | 10-20 minutes |
| Metal Halide (Pulse Start) | 2 minutes | 3-4 minutes |
| High Pressure Sodium | 7-10 minutes | 1/2-1 minute |

GE HID Ballast Types

CORE AND COIL

The most common HID ballasts are the core and coil and is used in 90% of the fixture applications. Core and coil ballasts consist of one, two or three copper (or aluminum) coils on a core of electrical-grade steel laminations. HID ballasts are classified by the kind of circuit they use: Reactor (R), High Reactance autotransformer (HX), Constant Wattage Autotransformer (CWA), Regulated lag (Reg Lag) or Electronic. HID ballast are also classified as high power factor (HPF) or normal power factor (NPF).

GE HID ballast 150 watts or less have High Reactance Autotransformer circuits and high power factor (HX-HPF). GE HID ballast greater that 150 watts have Constant Wattage Autotransformer circuits and are high power factor (HPF).

CWA ballast is the most common circuit for core and coil ballast. CWA circuits provide for stable light regulation. The CWA circuit consists of a high reactance autotransformer with a capacitor in series with the lamp resulting with high power factor ballast. In most CWA ballast circuits a 10% drop in line voltage will only reduce the light output and wattage by 5%. The CWA circuit ballast requires an igniter for QMH pulse start, ceramic metal halide and HPS lamps. Igniters are also required for QMH lamps 150 watts or less.

Distributor Ballast Kits

GE stocks a comprehensive inventory of **quad and 5-tap HID voltage ballast kits**. The kits contain the appropriate core and coil, capacitor, ignitor (where required), mounting bracket, mounting hardware and instructions to allow the stocking distributor to meet the needs of their customer while minimizing their investment in component parts. The quad ballast kit has color-coded leads to identify voltages and operates at 120/208/240/277. **The 5-tap HID ballast kits also include 480-volt applications** and are listed as ML5, though GE also offers single-voltage kits for 480-volt with 120-volt taps for stand-by lighting.

Also available for metal halide and high pressure sodium applications is the **5-tap ballast-lamp replacement kit listed as -55**. This easy-to-carry, convenient, all-in-one kit, ensures ballast-lamp compatibility by including the lamp as well.

Ignitors and capacitors, where required, are included with the quad and 5-tap ballast kits.

Capacitors

Most GE capacitors and ignitors are sold in ballast kits that come pre-wired and reduce labor cost. Capacitors and ignitors are also sold separately.

Power factor capacitors are used to reduce the negative effects that inductive devices (HID ballast) have on power factor ratings. GE sells a complete line of capacitors that must be properly matched to the lamp and HID ballast. GE capacitors have bleed-in resistors and use biodegradable, nontoxic (no PCBs) dielectric fluid.

GE Oil-filled Capacitors are packaged in metal cases (up to 520V ratings). All GE capacitors are designed for 60,000 hours of continuous life.

Dry Capacitors do not contain oil and are manufactured with plastic casing. Dry casings are rated up 100°C maximum.

Dry capacitors are designed and rated for AC voltages below 400V at 50 or 60Hz.

Ignitors

Ignitors are also sold in individual cartons for replacement needs. Ignitors supply a high voltage pulse to ionize the gas creating the glow discharge. Once the lamp is started the ignitor stops providing the pulse. Ignitors are designed to last thousand of hours; however, if the lamp fails or the socket is empty, the ignitor will continue to pulse. The lamps should be replaced or the fixture turned off to prevent premature failure of the ignitor.

Standard ignitors are supplied with metal halide ballast 150 watts or less, pulse start metal halide and high-pressure sodium ballast. There are several different ignitors that meet the needs of many GE lamp and ballast combinations. The appropriate ignitor is listed in the catalog under the ballast specifications.

Potted Core and Coil Ballast

GE potted core and coil ballasts are designed for applications requiring quieter or cooler operation than provided by standard coil and coil ballast. The potting material is sand-filled polyester which provides excellent sound-deadening and heat-transfer qualities.

F-Can Ballast

GE F-Can ballast is recommended for indoor applications and where ballast noise must be minimized. F-Can ballast are encased in fluorescent ballast-type cans and potted with asphalt insulating materials to minimize noise.

Ballast Date and Temperature Codes

Date Codes

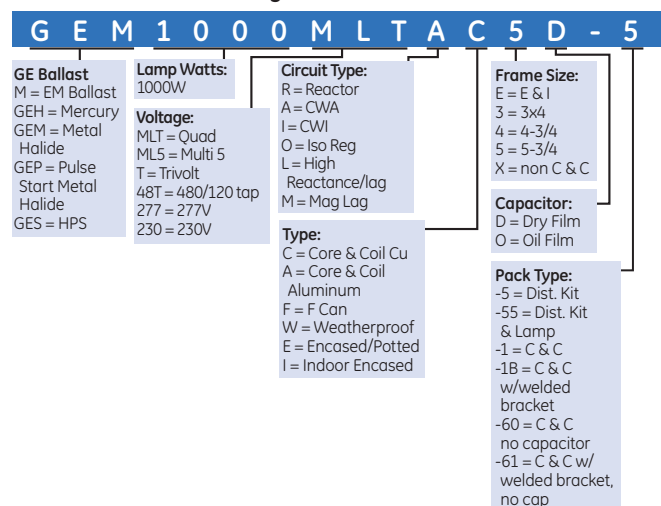
GE HID core and coil ballast manufacturing date codes are located on the top end of the core. They are printed in white and indicate year, month manufactured, and order the ballast was manufactured in the month. A code of 070100001 would indicate manufacture date of 07 (year 2007), 01 (month of January), and 00001 would be the manufacturing sequence.

UL Bench Top Temperature Code

To help with UL inspection, the UL Bench top code is listed on the GE label on the core and coil ballast as 1029X. X is the temperature code and represented by the following temperature classifications: A, B, C, D, E and F.

| UL Bench Top Letter Code | Temperature Range for Class H (180C) Ballast |
|--------------------------|--|
| A | Less than 75C |
| B | 75C < 80C |
| C | 80C < 85C |
| D | 85C < 90C |
| E | 90C < 95C |
| F | 95C < 100C |

GE Ballast HID Electromagnetic nomenclature



Electronic HID

HID Electronic and Electromagnetic Ballasts For 20 – 150W Pulse Start HID Lamps

74115 – GEMH20-MC-120

Electronic HID


1 – 20W M156 or C156 120V Micro Electronic HID

| General characteristics | |
|-------------------------------|------------------------------|
| Ballast Type | Electronic – Low Frequency |
| Starting Method | Pulse Start |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MIN) | 0 °C (32 °F) |
| Ambient Temperature (MAX) | 55 °C (131 °F) |
| Case Temperature (MAX) | 80 °C (176 °F) |
| Ballast Factor | Normal-High (1.0) |
| Power Factor Correction | Active |
| Circuit Type | Electronic |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Plastic |
| Distance to Lamp (MAX) | 8 ft |
| Additional Info | End of Life Protection (EOL) |

| Electrical characteristics | |
|--------------------------------|--------|
| Lamp Operating Frequency | 133 Hz |
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 1 | 10 |

| Specifications by lamp and line voltage | | |
|---|--------------------------------|---------------|
| Lamp | Specifications by line voltage | |
| M156 20W Ceramic Metal Halide | System Wattage (W) | 120 |
| | Nominal Current | 23 |
| | Nominal Current | 0.20 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency | 0.870 |
| | Open Circuit Voltage | 4000 V |
| | Drop Out Voltage | 96 V |
| | Power factor (≥)% | 0.98 |
| | Crest factor (κ) | 1.4 |
| | THD % (κ) | 10 |
| | Min. starting temperature | 0 °F (-18 °C) |
| | Fuse rating | 1.5 |

Safety and performance UL94V0 Flame Retardant UL 1029 Listed Short Circuit Protection FCC Part 18 (Class A) for EMI and RFI Non-Consumer Limits ANSI – C82.14-2006 cUL Listed  UL Listed
Inherent Thermal Protection Product is compliant with material restriction requirements of RoHS

87490 – GEMH20-MLF-120

Electronic HID

1 – 20W M156 or C156 120V Electronic HID

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Low Frequency |
| ANSI Lamp Codes | M156 |
| Voltage | 120 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Electronic |
| Insulation Class | |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | |
| Ambient Temperature (MAX) | 131°F (55°C) |
| Case Temperature (MAX) | 85°C (185°F) |
| Sound Rating | A (20-24 decibels) |
| Additional Info | End-of-Life Protection (EOL), Inherent thermal protection |

| Electrical characteristics | |
|----------------------------|--|
| Lamp Operating Frequency | 133 Hz |
| Supply Current Frequency | 60 Hz/ 50 Hz/ Supply Current Frequency (MIN) / 50 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 1 | 12 |

| Specifications by lamp and line voltage | | |
|---|--------------------------------|---------|
| Lamp | Specifications by line voltage | |
| M156 20W Ceramic Metal Halide | System Wattage (W) | 120 |
| | Nominal Current | 22.50 |
| | Nominal Current | 0.36 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.89 |
| | Open Circuit Voltage | 4,000V |
| | Drop Out Voltage | 96V |
| | Power Factor (≥)% | 56 |
| | Crest Factor (κ) | 1.40 |
| | THD % (κ) | 79 |
| | Min. Starting Temp (°F/°C) | 0 / -18 |
| | Fuse Rating | 3 |
| | UL Bench Top Rise | |

Safety and performance ANSI – C62.41 UL 1029 Listed FCC-CLASS A Non-Consumer cUL Listed  UL Listed Product is compliant with material restriction requirements of RoHS

See page E-1 for warranty information.

- Light weight, low-profile housing
- Superior low frequency square wave frequency design maximizes performance and life of ceramic metal halide lamps.
- Ultra slim can size for fixture design flexibility

| Dimensions | | | |
|---|-----------------|-------------|-------------------------|
| Wiring diagram WD-eHID MLF/MSF – see example on page 18-65 | | | |
| Case dimensions – Ref Drawing MLF – see page 18-66 | | | |
| Length (L) | 3.0 in (76 mm) | | |
| Width (W) | 1.3 in (33 mm) | | |
| Height (H) | 1.18 in (30 mm) | | |
| Weight | 0.292 lbs | | |
| Exit Type | Side | | |
| Remote Mounting Distance to Lamp | 8 ft | | |
| Remote Mounting Wire Gauge | 18 AWG | | |
| Lead lengths | Qty | Exit | Length (± 1 in.) |
| Red | 1 | Left | 6.0 in (152 mm) |
| White | 1 | Left | 6.0 in (152 mm) |
| Brown | 1 | Left | 6.0 in (152 mm) |
| Black | 1 | Left | 6.0 in (152 mm) |

- Light weight, low-profile housing
- Superior low-frequency square-wave-frequency design maximizes performance and life of ceramic metal halide lamps
- Ultra-slim can size for fixture design flexibility

| Dimensions | |
|---|----------------|
| Wiring diagram WD-eHID MLF/MSF – see example on page 18-65 | |
| Case dimensions – Ref Drawing MLF – see page 18-66 | |
| Length (L) | 3.7 in (95 mm) |
| Width (W) | 1.5 in (40 mm) |
| Height (H) | 1.0 in (25 mm) |
| Frame Size (H x L) | |
| Mounting dimensions | |
| Bracket Length (BL) | |
| Mount Length (M) | 3.3 in (85 mm) |
| Mount Width (X or F) | 1.1 in (30 mm) |
| Mount Slots (MS) | 0.1 in (4 mm) |
| Weight | 0.38 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 8 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | |
| Brown | |
| White | |
| Red | |

Electronic HID

HID Electronic and Electromagnetic Ballasts For 20 – 150W Pulse Start HID Lamps

63042 – GEMH20-MSJ-MV

Electronic HID

1-20W M156/C156 120-277V Low frequency Electronic HID

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic – Low Frequency |
| ANSI Lamp Codes | C156 |
| Voltage | 120 and 277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Electronic |
| Ambient Temperature (MIN) | -20°C (-4°F) |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal Can |
| Additional Info | Junction Box Mounting Bottom Lead with Studs |

Electrical characteristics

| | |
|--------------------------|-------------|
| Lamp Operating Frequency | 130 Hz |
| Supply Current Frequency | 50 Hz/60 Hz |

Order information

| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
|------|--------------------------|--------------------------------|
| Case | 10 | 10 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|----------------------------|--------------------------------|-----------|
| | 120 | 277 |
| C156 | | |
| 20W Ceramic Metal Halide | | |
| System Wattage (W) | 23 | 23 |
| Nominal Current | 0.21 A | 0.09 A |
| Ballast Factor | 1 | 1 |
| Ballast Efficiency Factor | 0.87 | 0.87 |
| Open Circuit Voltage | 350 V | 350 V |
| Drop Out Voltage | 96 V | 96 V |
| Power Factor (>=)% | 95 | 95 |
| Crest Factor (<) | 1.5 | 1.5 |
| THD % (<) | 10 | 15 |
| Min. Starting Temp (°F/°C) | -20 / -29 | -20 / -29 |
| Fuse Rating | 1.25 | 1.25 |
| UL Bench Top Rise | | |

Safety and performance



UL Type 1 Outdoor ANSI - C82.14-2006 Suitable for recessed use
cUL Listed Inherent Thermal Protection Product is compliant with material restriction requirements of RoHS



UL 1029 Listed FCC Part 18 (Class A) for EMI and RFI Non-Consumer Limits Short Circuit Protection

63043 – GEMH20-MSF-MV

Electronic HID

1-20W M156/C156 120-277V Low frequency Electronic HID

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic – Low Frequency |
| ANSI Lamp Codes | C156 |
| Voltage | 120 and 277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Electronic |
| Ambient Temperature (MIN) | -20°C (-4°F) |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal Can |
| Additional Info | Junction Box Mounting Side Leads with feet |

Electrical characteristics

| | |
|--------------------------|-------------|
| Lamp Operating Frequency | 130 Hz |
| Supply Current Frequency | 50 Hz/60 Hz |

Order information

| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
|------|--------------------------|--------------------------------|
| Case | 10 | 10 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|----------------------------|--------------------------------|-----------|
| | 120 | 277 |
| C156 | | |
| 20W Ceramic Metal Halide | | |
| System Wattage (W) | 23 | 23 |
| Nominal Current | 0.21 A | 0.09 A |
| Ballast Factor | 1 | 1 |
| Ballast Efficiency Factor | 0.87 | 0.87 |
| Open Circuit Voltage | 350 V | 350 V |
| Drop Out Voltage | 96 V | 96 V |
| Power Factor (>=)% | 95 | 95 |
| Crest Factor (<) | 1.5 | 1.5 |
| THD % (<) | 10 | 15 |
| Min. Starting Temp (°F/°C) | -20 / -29 | -20 / -29 |
| Fuse Rating | 1.25 | 1.25 |
| UL Bench Top Rise | | |

Safety and performance



UL Type 1 Outdoor Suitable for recessed use
Product is compliant with material restriction requirements of RoHS



UL 1029 Listed Short Circuit Protection cUL Listed ANSI - C82.14-2006 FCC Part 18 Class B at 120 volts

- Superior low frequency square wave frequency design maximizes performance and life of ceramic metal halide lamps.
- Multi-Voltage Technology handles voltage from 120 to 277V
- Improves lumen maintenance vs magnetic
- Suitable for recessed use
- Lamp life 4x the life of halogen: 12K vs 3K
- 2% line regulation minimizes lamp to lamp color variation
- 15% Energy savings vs magnetic HID ballasts in retrofits
- Excellent color control with GE CMH & tight line regulation
- End-of-Lamp-Life Protection

Dimensions

Wiring diagram WD-eHID-SLJ – see example on page 18-65
Case dimensions – Ref Drawing Fig. 3 – see page 18-66

| | |
|--------------------|----------------|
| Length (L) | 3.3 in (83 mm) |
| Width (W) | 3.0 in (76 mm) |
| Height (H) | 1.6 in (40 mm) |
| Frame Size (H x L) | |

Mounting dimensions

| | |
|----------------------------------|-------------------------|
| Bracket Length (BL) | |
| Mount Length (ML) | 2.0 in (51 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 8-32 |
| Weight | 1.1 lb |
| Exit Type | Bottom Leads with Studs |
| Remote Mounting Distance to Lamp | 6.56 ft |
| Remote Mounting Wire Gauge | 18 AWG |

| Lead lengths | Qty | Exit | Length (±1 in.) |
|--------------|-----|--------|-----------------|
| Black | 1 | Bottom | 6.0 in (152 mm) |
| Brown | 1 | Bottom | 6.0 in (152 mm) |
| Green | 1 | Bottom | 6.0 in (152 mm) |
| Red | 1 | Bottom | 6.0 in (152 mm) |
| White | 1 | Bottom | 6.0 in (152 mm) |

- Superior low frequency square wave frequency design maximizes performance and life of ceramic metal halide lamps.
- 15% Energy savings vs magnetic HID ballasts in retrofits
- Lamp life 4x the life of halogen: 12K vs 3K
- Improves lumen maintenance vs magnetic
- 2% line regulation minimizes lamp to lamp color variation
- Excellent color control with GE CMH & tight line regulation
- End-of-Lamp-Life Protection

Dimensions

Wiring diagram WD-eHID SLJ – see example on page 18-65
Case dimensions – Ref Drawing Fig. 2 – see page 18-66

| | |
|--------------------|----------------|
| Length (L) | 3.4 in (85 mm) |
| Width (W) | 3.1 in (79 mm) |
| Height (H) | 1.2 in (30 mm) |
| Frame Size (H x L) | |

Mounting dimensions

| | |
|----------------------------------|-----------------|
| Bracket Length (BL) | |
| Mount Length (ML) | 3.78 in (96 mm) |
| Mount Width (X or F) | 2.64 in (67 mm) |
| Mount Slots (MS) | 0.17 in (4 mm) |
| Weight | 1.0 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 6.56 ft |
| Remote Mounting Wire Gauge | 18 AWG |

| Lead lengths | Qty | Exit | Length (±1 in.) |
|--------------|-----|--------|-----------------|
| Black | 1 | Bottom | 6.0 in (152 mm) |
| Brown | 1 | Bottom | 6.0 in (152 mm) |
| Green | 1 | Bottom | 6.0 in (152 mm) |
| White | 1 | Bottom | 6.0 in (152 mm) |
| Red | 1 | Bottom | 6.0 in (152 mm) |

Electronic HID

HID Electronic and Electromagnetic Ballasts For 20 – 150W Pulse Start HID Lamps

63044 – GEMH39-MSJ-MV

Electronic HID

1-39W M130/C130 120-277V Low Frequency Electronic HID

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Low Frequency |
| ANSI Lamp Codes | C156 |
| Voltage | 120 and 277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Electronic |
| Ambient Temperature (MIN) | -20°C (-4°F) |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal Can |
| Additional Info | Junction Box Mounting Bottom Lead with studs |

| Electrical characteristics | |
|----------------------------|-------------|
| Lamp Operating Frequency | 130 Hz |
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 10 | 10 |

| Specifications by lamp and line voltage | | | |
|---|--------------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | 120 | 277 |
| C130, M130 39W Ceramic Metal Halide | System Wattage (W) | 44 | 45 |
| | Nominal Current | 0.17 A | 0.39 A |
| | Ballast Factor | 1 | 1 |
| | Ballast Efficiency Factor | 0.89 | 0.87 |
| | Open Circuit Voltage | 350 V | 350 V |
| | Drop Out Voltage | 96 V | 96 V |
| | Power Factor (>=)% | 95 | 95 |
| | Crest Factor (<) | 1.5 | 1.5 |
| | THD % (<) | 10 | 15 |
| | Min. Starting Temp (°F/°C) | -20 / -29 | -20 / -29 |
| | Fuse Rating | 1.25 | 1.25 |
| | UL Bench Top Rise | | |

Safety and performance

UL Type 1 Outdoor ANSI - C82.14-2006 Suitable for recessed use Short Circuit Protection Inherent Thermal Protection cUL Listed Product is compliant with material restriction requirements of RoHS

- Superior low frequency square wave frequency design maximizes performance and life of ceramic metal halide lamps.
- 15% Energy savings vs magnetic HID ballasts in retrofits
- Lamp life 4x the life of halogen: 12K vs 3K
- Improves lumen maintenance vs magnetic
- Excellent color control with GE CMH & tight line regulation
- 2% line regulation minimizes lamp to lamp color variation
- Multi-Voltage Technology handles voltage from 120 to 277V
- End-of-Lamp-Life Protection

| Dimensions | | | |
|--|-------------------------|--------|------------------|
| Wiring diagram WD-eHID-SLJ - see example on page 18-65 | | | |
| Case dimensions - Ref Drawing Fig. 3 - see page 18-66 | | | |
| Length (L) | 3.3 in (83 mm) | | |
| Width (W) | 3.0 in (76 mm) | | |
| Height (H) | 1.6 in (40 mm) | | |
| Frame Size (H x L) | | | |
| Mounting dimensions | | | |
| Bracket Length (BL) | 2.0 in (51 mm) | | |
| Mount Length (M) | 2.0 in (51 mm) | | |
| Mount Width (X or F) | 8-32 | | |
| Mount Slots (MS) | 1.1 lb | | |
| Weight | Bottom Leads with Studs | | |
| Exit Type | 6.56 ft | | |
| Remote Mounting Distance to Lamp | 18 AWG | | |
| Remote Mounting Wire Gauge | | | |
| Lead lengths | | | |
| | Qty | Exit | Length (± 1 in.) |
| Black | 1 | Bottom | 6.0 in (152 mm) |
| Brown | 1 | Bottom | 6.0 in (152 mm) |
| Green | 1 | Bottom | 6.0 in (152 mm) |
| Red | 1 | Bottom | 6.0 in (152 mm) |
| White | 1 | Bottom | 6.0 in (152 mm) |

63045 – GEMH39-MSF-MV

Electronic HID

1-39W M130/C130 120-277V Low Frequency Electronic HID

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Low Frequency |
| ANSI Lamp Codes | C156 |
| Voltage | 120 and 277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Electronic |
| Ambient Temperature (MIN) | -20°C (-4°F) |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal Can |
| Additional Info | Junction Box Mounting Bottom Lead with feet |

| Electrical characteristics | |
|----------------------------|-------------|
| Lamp Operating Frequency | 130 Hz |
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 10 | 10 |

| Specifications by lamp and line voltage | | | |
|---|--------------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | 120 | 277 |
| C130, M130 39W Ceramic Metal Halide | System Wattage (W) | 44 | 45 |
| | Nominal Current | 0.17 A | 0.39 A |
| | Ballast Factor | 1 | 1 |
| | Ballast Efficiency Factor | 0.89 | 0.87 |
| | Open Circuit Voltage | 350 V | 350 V |
| | Drop Out Voltage | 96 V | 96 V |
| | Power Factor (>=)% | 95 | 95 |
| | Crest Factor (<) | 1.5 | 1.5 |
| | THD % (<) | 10 | 15 |
| | Min. Starting Temp (°F/°C) | -20 / -29 | -20 / -29 |
| | Fuse Rating | 1.25 | 1.25 |
| | UL Bench Top Rise | | |

Safety and performance

Product is compliant with material restriction requirements of RoHS UL Type 1 Outdoor ANSI - C82.14-2006 Suitable for recessed use Short Circuit Protection Inherent Thermal Protection FCC Part 18 (Class A) for EMI and RFI Non-Consumer Limits

- Superior low frequency square wave frequency design maximizes performance and life of ceramic metal halide lamps.
- 15% Energy savings vs magnetic HID ballasts in retrofits
- Energy saving high efficiency instant start electronic ballast (> 90%)
- Lamp life 4x the life of halogen: 12K vs 3K
- Improves lumen maintenance vs magnetic
- Excellent color control with GE CMH & tight line regulation
- 2% line regulation minimizes lamp to lamp color variation
- Remote mounting distance to lamp = 2 m (min 18 AWG)
- Multi-Voltage Technology handles voltage from 120 to 277V
- End-of-Lamp-Life Protection
- UL940V0 flame retardant plastic housing

| Dimensions | | | |
|--|-----------------|--------|------------------|
| Wiring diagram WD-eHID SLJ - see example on page 18-65 | | | |
| Case dimensions - Ref Drawing Fig. 2 - see page 18-66 | | | |
| Length (L) | 3.4 in (85 mm) | | |
| Width (W) | 3.1 in (79 mm) | | |
| Height (H) | 1.2 in (30 mm) | | |
| Frame Size (H x L) | | | |
| Mounting dimensions | | | |
| Bracket Length (BL) | 3.78 in (96 mm) | | |
| Mount Length (M) | 2.64 in (67 mm) | | |
| Mount Width (X or F) | 0.17 in (4 mm) | | |
| Mount Slots (MS) | 1.0 lbs | | |
| Weight | Side | | |
| Exit Type | 6.56 ft | | |
| Remote Mounting Distance to Lamp | 18 AWG | | |
| Remote Mounting Wire Gauge | | | |
| Lead lengths | | | |
| | Qty | Exit | Length (± 1 in.) |
| Black | 1 | Bottom | 6.0 in (152 mm) |
| Brown | 1 | Bottom | 6.0 in (152 mm) |
| Green | 1 | Bottom | 6.0 in (152 mm) |
| White | 1 | Bottom | 6.0 in (152 mm) |
| Red | 1 | Bottom | 6.0 in (152 mm) |

Electronic HID

HID Electronic and Electromagnetic Ballasts For 20 – 150W Pulse Start HID Lamps

74116- GEMH39-MC-120

Electronic HID

1 – 39W M130 or C130 120V Micro Electronic HID

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic - Low Frequency |
| Starting Method | n/a |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MIN) | 0 °C (32 °F) |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 80 °C (176 °F) |
| Ballast Factor | Normal-High (1.0) |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Plastic |
| Distance to Lamp (MAX) | 8 ft |
| Additional Info | End of Life Protection (EOL), Thermally protected |

| Electrical characteristics | |
|----------------------------|--------|
| Lamp Operating Frequency | 133 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 1 | 10 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|-------------------------------------|--------------------------------|---------------|
| M130 39 W Ceramic MetalHalide | | 120 |
| | System Wattage (W) | 43 |
| | Ballast Factor | 1 |
| | Ballast Efficiency | 0.907 |
| | Max Input Current | 0.39 A |
| | Open Circuit Voltage | 4000 V |
| | Drop Out Voltage | 96 V |
| | Power factor (>=) % | 0.98 |
| | Crest factor (<) | 1.4 |
| | THD % (<) | 10 |
| | Min. starting temperature | 0 °F (-18 °C) |
| | Fuse rating | 1.5 |

Safety and performance UL94V0 Flame Retardant Short Circuit Protection ANSI – C82.14-2006 cUL Listed Inherent Thermal Protection  UL Listed
Product is compliant with material restriction requirements of RoHS

Note: This product no longer manufactured. Remaining stock will be sold.

- Light weight, low-profile housing
- Superior low frequency square wave frequency design maximizes performance and life of ceramic metal halide lamps.
- Ultra slim can size for fixture design flexibility

Dimensions

| Wiring diagram WD-eHID MLF/MSF – see example on page 18-65 | | | |
|--|-----------------|------|------------------|
| Case dimensions – Ref Drawing MLF – see page 18-66 | | | |
| Length (L) | 3.0 in (76 mm) | | |
| Width (W) | 1.3 in (33 mm) | | |
| Height (H) | 1.18 in (30 mm) | | |
| Weight | 0.38 lbs | | |
| Exit Type | Side | | |
| Remote Mounting Distance to Lamp | 8 ft | | |
| Remote Mounting Wire Gauge | 18 AWG | | |
| Lead lengths | Qty | Exit | Length (± 1 in.) |
| White | 1 | Left | 6.0 in (152 mm) |
| Red | 1 | Left | 6.0 in (152 mm) |
| Brown | 1 | Left | 6.0 in (152 mm) |
| Black | 1 | Left | 6.0 in (152 mm) |

75378 – GEMH39-MCM-120

Electronic HID

1 – 39W M130 or C130 120V Micro Electronic HID Metal Can


| General characteristics | |
|-------------------------------|------------------------------|
| Ballast Type | Electronic - Low Frequency |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55 °C (131 °F) |
| Case Temperature (MAX) | 80 °C (176 °F) |
| Ballast Factor | Normal-High (1.0) |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Distance to Lamp (MAX) | 8 ft |
| Additional Info | End of Life Protection (EOL) |

| Electrical characteristics | |
|----------------------------|--------|
| Lamp Operating Frequency | 130 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 1 | 10 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|-------------------------------------|--------------------------------|---------------|
| M130 20 W Ceramic MetalHalide | | 120 |
| | System Wattage (W) | 43 |
| | Nominal Current | 0.39 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency | 0.907 |
| | Open Circuit Voltage | 4000 V |
| | Drop Out Voltage | 96 V |
| | Power factor (>=) % | 0.95 |
| | Crest factor (<) | 1.4 |
| | THD % (<) | 10 |
| | Min. starting temperature | 0 °F (-18 °C) |
| | Fuse rating | 1.5 |

Safety and performance  UL Type 1 Outdoor UL1029 Listed Short Circuit Protection ANSI – C82.14-2006 cUL Listed Inherent Thermal Protection  UL Listed
Product is compliant with material restriction requirements of RoHS

- Light weight, low-profile housing
- Superior low frequency square wave frequency design maximizes performance and life of ceramic metal halide lamps.
- Ultra slim can size for fixture design flexibility

Dimensions

| Wiring diagram WD-eHID MLF/MSF – see example on page 18-65 | | | |
|--|-----------------|------|------------------|
| Case dimensions – Ref Drawing MLF – see page 18-66 | | | |
| Length (L) | 3.5 in (90 mm) | | |
| Width (W) | 1.3 in (33 mm) | | |
| Height (H) | 1.18 in (30 mm) | | |
| Weight | 0.38 lbs | | |
| Exit Type | Side | | |
| Remote Mounting Distance to Lamp | 8 ft | | |
| Remote Mounting Wire Gauge | 18 AWG | | |
| Lead lengths | Qty | Exit | Length (± 1 in.) |
| Green | 1 | Left | 6.0 in (152 mm) |
| White | 1 | Left | 6.0 in (152 mm) |
| Red | 1 | Left | 6.0 in (152 mm) |
| Brown | 1 | Left | 6.0 in (152 mm) |
| Black | 1 | Left | 6.0 in (152 mm) |

Electronic HID

HID Electronic and Electromagnetic Ballasts For 20 – 150W Pulse Start HID Lamps

87501 – GEMH39-MSF-120

Electronic HID

1 – 39W M130 or C130 120V Electronic HID

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Low Frequency |
| ANSI Lamp Codes | M130 |
| Voltage | 120 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | |
| Insulation Class | |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | |
| Ambient Temperature (MAX) | 131°F (55°C) |
| Case Temperature (MAX) | 90 °C (194 °F) |
| Sound Rating | A (20-24 decibels) |
| Additional Info | End-of-Life Protection (EOL), Thermally protected |

| Electrical characteristics | |
|----------------------------|--------|
| Lamp Operating Frequency | 130 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 1 | 10 |

| Specifications by lamp and line voltage | | |
|---|--------------------------------|----------|
| Lamp | Specifications by line voltage | |
| M130 | | 120 |
| 39W Ceramic Metal Halide | System Wattage (W) | 43.00 |
| | Nominal Current | 0.37 A |
| | Ballast Factor | 1.00 |
| | Ballast Efficiency Factor | 0.91 |
| | Open Circuit Voltage | |
| | Drop Out Voltage | 96V |
| | Power Factor (>=)% | 99 |
| | Crest Factor (k) | 1.40 |
| | THD % (k) | 6.80 |
| | Min. Starting Temp (°F/°C) | -4 / -20 |
| | Fuse Rating | 3 |
| | UL Bench Top Rise | |

Safety and performance  UL Type 1 Outdoor ANSI – C62.41 Suitable for recessed use UL 1029 Listed cUL Listed  UL Listed Product is compliant with material restriction requirements of RoHS
 Note: This product is no longer manufactured. Remaining stock will be sold.

87531 – GEMH70-MSF-120

Electronic HID



1 – 70W, M98, M/C143, 120V Electronic HID

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Low Frequency |
| ANSI Lamp Codes | M98, M143, M139, C143, C139 |
| Voltage | 120 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | |
| Insulation Class | |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | |
| Ambient Temperature (MAX) | 131°F (55°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Sound Rating | A (20-24 decibels) |
| Additional Info | End of Life Protection (EOL), Thermally protected |

| Electrical characteristics | |
|----------------------------|--------|
| Lamp Operating Frequency | 130 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 1 | 10 |

| Specifications by lamp and line voltage | | |
|---|--------------------------------|----------|
| Lamp | Specifications by line voltage | |
| M98, M143, M139, C143, C139 | | 120 |
| 70W Ceramic Metal Halide | System Wattage (W) | 77 |
| | Nominal Current | 0.68 A |
| | Ballast Factor | 1.00 |
| | Ballast Efficiency Factor | 0.91 |
| | Open Circuit Voltage | |
| | Drop Out Voltage | |
| | Power Factor (>=)% | 99 |
| | Crest Factor (k) | 1.4 |
| | THD % (k) | 8.3 |
| | Min. Starting Temp (°F/°C) | -4 / -20 |
| | Fuse Rating | 3 |
| | UL Bench Top Rise | |

Safety and performance  UL Type 1 Outdoor ANSI – C62.41 UL 1029 Listed FCC-CLASS A Non-Consumer cUL Listed  UL Listed
 Housing meets UL94V0 flame retardant Product is compliant with material restriction requirements of RoHS
 See page E-1 for warranty information.

| Dimensions | |
|--|-----------------|
| Wiring diagram WD-eHID MLF/MSF – see example on page 18-65 | |
| Case dimensions – Ref Drawing MSF – see page 18-66 | |
| Length (L) | 3.7 in (95 mm) |
| Width (W) | 2.9 in (76 mm) |
| Height (H) | 1.18 in (30 mm) |
| Frame Size (H x L) | |
| Mounting dimensions | |
| Bracket Length (BL) | |
| Mount Length (M) | 3.3 in (86 mm) |
| Mount Width (X or F) | 2.5 in (64 mm) |
| Mount Slots (MS) | 0.1 in (4 mm) |
| Weight | 0.38 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 8 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | |
| Brown | |
| White | |
| Red | |

| Dimensions | | | |
|--|-----------------|-------|-----------------|
| Wiring diagram WD-eHID MLF/MSF – see example on page 18-65 | | | |
| Case dimensions – Ref Drawing MSF – see page 18-66 | | | |
| Length (L) | 3.7 in (95 mm) | | |
| Width (W) | 2.9 in (76 mm) | | |
| Height (H) | 1.18 in (30 mm) | | |
| Frame Size (H x L) | | | |
| Mounting dimensions | | | |
| Bracket Length (BL) | | | |
| Mount Length (M) | 3.3 in (86 mm) | | |
| Mount Width (X or F) | 2.5 in (64 mm) | | |
| Mount Slots (MS) | 0.1 in (4 mm) | | |
| Weight | 0.38 lbs | | |
| Exit Type | Side | | |
| Remote Mounting Distance to Lamp | 8 ft | | |
| Remote Mounting Wire Gauge | 18 AWG | | |
| Lead lengths | Qty | Exit | Length (± 1 in) |
| Black | 1 | Left | 10 in (254 mm) |
| Brown | 1 | Right | 10 in (254 mm) |
| White | 1 | Left | 10 in (254 mm) |
| Red | 1 | Right | 10 in (254 mm) |

Electronic HID

HID Electronic and Electromagnetic Ballasts For 20 – 150W Pulse Start HID Lamps

94135 -GEMH70-MSLF-120

Electronic HID

1 - 70W, M98/C98, M139/C139, 120V Electronic HID

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Low Frequency |
| ANSI Lamp Codes | M98/C98 or M139/C139 |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 122°F (50°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Sound Rating | A (<24 decibels) |
| Enclosure Type | Metal |
| Distance to Lamp (MAX) | 8 ft |
| Additional Info | End of Life Protection (EOL)/Thermally protected |

| Electrical characteristics | |
|----------------------------|--------|
| Lamp Operating Frequency | 275 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 1 | 10 |

Specifications by lamp and line voltage

| Lamp | Specifications by Line Voltage | |
|-----------|--------------------------------|--------|
| M98/C98 | | 120 |
| | System Wattage (W) | 77 |
| | Nominal Current | 0.64 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency | 0.90 |
| | Power factor (>=) % | 95 |
| | Crest factor (<) | 1.5 |
| | THD % (<) | 10 |
| | Min. Starting Temp (°F/°C) | 5/-15 |
| | Fuse rating | 2.5A |
| M139/C139 | | 120 |
| | System Wattage (W) | 77 |
| | Nominal Current | 0.64 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency | 0.90 |
| | Power factor (>=) % | 95 |
| | Crest factor (<) | 1.5 |
| | THD % (<) | 10 |
| | Min. Starting Temp (°F/°C) | 5/-15 |
| | Fuse rating | 2.5A |

Safety and performance



UL 1029 Listed cUL Listed Housing meets UL 1439 Suitable for recessed use Product is compliant with material restriction requirements of RoHS

87546 - GEMH70-SLJ-MV

Electronic HID

1 - 70W, M98, M/C143, 120V Electronic HID

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic - Low Frequency |
| ANSI Lamp Codes | M98, M143, C143, M139, C139 |
| Voltage | 120/277 |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 131°F (55°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Sound Rating | A (20-24 decibels) |
| Additional Info | End of Life Protection (EOL), Thermally protected |

| Electrical characteristics | |
|----------------------------|--------|
| Lamp Operating Frequency | 130 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 1 | 10 |

Specifications by lamp and line voltage

| Lamp | Specifications by Line Voltage | | |
|--|--------------------------------|----------|----------|
| M98, M143, M139, C143, C139 70W Ceramic Metal Halide | | 120 | 277 |
| | System Wattage (W) | 77 | 77 |
| | Nominal Current | 0.66 A | 0.30 A |
| | Ballast Factor | 1 | 1 |
| | Ballast Efficiency Factor | 0.91 | 0.91 |
| | Open Circuit Voltage | | |
| | Drop Out Voltage | 96V | 96V |
| | Power Factor (>=) % | 99 | 97 |
| | Crest Factor (<) | 1.4 | 1.4 |
| | THD % (<) | 4.9 | 7.7 |
| 70W Quartz Metal Halide | Min. Starting Temp (°F/°C) | -4 / -20 | -4 / -20 |
| | Fuse Rating | 3 | 3 |
| | UL Bench Top Rise | | |

Safety and performance



UL Type 1 Outdoor ANSI - C62.41 UL 1029 Listed FCC-CLASS A Non-Consumer cUL Listed Product is compliant with material restriction requirements of RoHS

Dimensions

| Wiring diagram WD-eHID SLJ - see example on page 18-65 | | |
|--|-----|-------------------|
| Case dimensions - Ref Drawing SLJ - see page 18-66 | | |
| Length (L) | | 5.51 in (140 mm) |
| Width (W) | | 1.74 in (44.2 mm) |
| Height (H) | | 1.18 in (30 mm) |
| Frame Size (H x L) | | |
| Mounting dimensions | | |
| Bracket Length (BL) | | |
| Mount Length (M) | | 5.24 in (133 mm) |
| Mount Width (X or F) | | 1.13 in (28.6 mm) |
| Mount Slots (MS) | | 0.19 in (4.8 mm) |
| Weight | | 0.56 lbs |
| Exit Type | | Side |
| Remote Mounting Distance to Lamp | | 8 ft |
| Remote Mounting Wire Gauge | | 18 AWG |
| Lead lengths | | |
| | Qty | Length (± 1 in) |
| White | 1 | 10 in (254 mm) |
| Black | 1 | 10 in (254 mm) |
| Green | 1 | 10 in (254 mm) |
| Red | 1 | 10 in (254 mm) |
| Brown | 1 | 10 in (254 mm) |

Dimensions

| Wiring diagram WD-eHID SLJ - see example on page 18-65 | | |
|--|-----|-------------------------|
| Case dimensions - Ref Drawing SLJ - see page 18-66 | | |
| Length (L) | | 7.2 in (185 mm) |
| Width (W) | | 2.5 in (66 mm) |
| Height (H) | | 2.2 in (56 mm) |
| Frame Size (H x L) | | |
| Mounting dimensions | | |
| Bracket Length (BL) | | |
| Mount Length (M) | | 0.4 in (11 mm) |
| Mount Width (X or F) | | |
| Mount Slots (MS) | | |
| Weight | | 0.38 lbs |
| Exit Type | | Bottom Leads with Studs |
| Remote Mounting Distance to Lamp | | 8 ft |
| Remote Mounting Wire Gauge | | 18 AWG |
| Lead lengths | | |
| | Qty | Exit |
| Black | 1 | Left |
| Brown | 1 | Right |
| White | 1 | Left |
| Red | 1 | Right |

Electronic HID

HID Electronic and Electromagnetic Ballasts For 20 – 150W Pulse Start HID Lamps

87561 – GEMH100-SLJ-MV

Electronic HID

1 – 100W, M90, M/C140, 120V-277V Electronic HID

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Low Frequency |
| ANSI Lamp Codes | M90, M140, C140 |
| Voltage | 120/277 |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 131°F (55°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Sound Rating | A (20-24 decibels) |
| Additional Info | End of Life Protection (EOL), Thermally protected |

| Electrical characteristics | |
|----------------------------|--------|
| Lamp Operating Frequency | 130 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 1 | 10 |

| Specifications by lamp and line voltage | | | | | | | |
|---|--------------------------------|----------|----------|----------------------------|--------------------------------|---------|--------|
| Lamp | Specifications by line voltage | | | Lamp | Specifications by line voltage | | |
| M90, M140 100W Ceramic Metal Halide | | 120 | 277 | C140 | | 120 | 277 |
| | System Wattage (W) | 110 | 107 | | System Wattage (W) | 110 | 107 |
| | Nominal Current | 0.93 A | 0.41 A | | Nominal Current | 0.93 A | 0.41 A |
| | Ballast Factor | 1 | 1 | | Ballast Factor | 1 | 1 |
| | Ballast Efficiency Factor | 0.91 | 0.93 | | Ballast Efficiency Factor | | |
| | Open Circuit Voltage | | | | Open Circuit Voltage | | |
| | Drop Out Voltage | 96V | 96V | | Drop Out Voltage | 96V | 96V |
| | Power Factor (≥)% | 99 | 98 | | Power Factor (≥)% | 99 | 98 |
| | Crest Factor (≤) | 1.4 | 1.4 | | Crest Factor (≤) | 1.4 | 1.4 |
| | THD % (≤) | 4.7 | 7.8 | | THD % (≤) | 4.7 | 7.8 |
| 100W Quartz Metal Halide | Min. Starting Temp (°F/°C) | -4 / -20 | -4 / -20 | Min. Starting Temp (°F/°C) | 0 / -18 | 0 / -18 | |
| | Fuse Rating | 3 | 3 | Fuse Rating | 3 | 3 | |
| | UL Bench Top Rise | | | UL Bench Top Rise | | | |

Safety and performance  UL Type 1 Outdoor ANSI – C62.41 UL 1029 Listed cUL Listed Product is compliant with material restriction requirements of RoHS

87576 – GEMH150-SLJ-MV

Electronic HID

1 – 150W, M102, M/C142, 120V-277V Electronic HID

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Low Frequency |
| ANSI Lamp Codes | M142, M102, C142 |
| Voltage | 120/277 |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 131°F (55°C) |
| Case Temperature (MAX) | 85°C (185°F) |
| Sound Rating | A (20-24 decibels) |
| Additional Info | End of Life Protection (EOL), Thermally protected |

| Electrical characteristics | |
|----------------------------|--------|
| Lamp Operating Frequency | 130 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 1 | 10 |

| Specifications by lamp and line voltage | | | | | | | |
|--|--------------------------------|----------|----------|----------------------------|--------------------------------|---------|--------|
| Lamp | Specifications by line voltage | | | Lamp | Specifications by line voltage | | |
| M102, M142 150W Quartz Metal Halide, | | 120 | 277 | C142 | | 120 | 277 |
| | System Wattage (W) | 167 | 164 | | System Wattage (W) | 167 | 164 |
| | Nominal Current | 1.44 A | 0.62 A | | Nominal Current | 1.44 A | 0.62 A |
| | Ballast Factor | 1 | 1 | | Ballast Factor | 1 | 1 |
| | Ballast Efficiency Factor | 0.90 | 0.91 | | Ballast Efficiency Factor | | |
| | Open Circuit Voltage | | | | Open Circuit Voltage | | |
| | Drop Out Voltage | 96V | 96V | | Drop Out Voltage | 96V | 96V |
| | Power Factor (≥)% | 99 | 99 | | Power Factor (≥)% | 99 | 99 |
| | Crest Factor (≤) | 1.4 | 1.4 | | Crest Factor (≤) | 1.4 | 1.4 |
| | THD % (≤) | 4.2 | 10.6 | | THD % (≤) | 4.2 | 10.6 |
| 150W Ceramic Metal Halide | Min. Starting Temp (°F/°C) | -4 / -20 | -4 / -20 | Min. Starting Temp (°F/°C) | 0 / -18 | 0 / -18 | |
| | Fuse Rating | 3 | 3 | Fuse Rating | 3 | 3 | |
| | UL Bench Top Rise | | | UL Bench Top Rise | | | |

Safety and performance  UL Type 1 Outdoor ANSI – C62.41 UL 1029 Listed FCC-CLASS A Non-Consumer cUL Listed Product is compliant with material restriction requirements of RoHS

| Dimensions | | | |
|--|-------------------------|-------|-----------------|
| Wiring diagram WD – eHID SLJ – see example on page 18-65 | | | |
| Case dimensions – Ref Drawing SLJ – see page 18-66 | | | |
| Length (L) | 7.2 in (185 mm) | | |
| Width (W) | 2.5 in (66 mm) | | |
| Height (H) | 2.2 in (56 mm) | | |
| Frame Size (H x L) | | | |
| Mounting dimensions | | | |
| Bracket Length (BL) | | | |
| Mount Length (M) | 0.4 in (11 mm) | | |
| Mount Width (X or F) | | | |
| Mount Slots (MS) | | | |
| Weight | 0.38 lbs | | |
| Exit Type | Bottom Leads with Studs | | |
| Remote Mounting Distance to Lamp | 8 ft | | |
| Remote Mounting Wire Gauge | 18 AWG | | |
| Lead lengths | | | |
| | Qty | Exit | Length (± 1 in) |
| Black | 1 | Left | 10 in (254 mm) |
| Brown | 1 | Right | 10 in (254 mm) |
| White | 1 | Left | 10 in (254 mm) |
| Red | 1 | Right | 10 in (254 mm) |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 20 – 175W Metal Halide HID Lamps

86824 – GEM50MLTLC3D-5

Metal Halide

1 – 50W MH M110 or M148 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M110 or M148 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 180C |
| Type of Capacitor | Dry film |
| Capacitance | 6 Mfd GECAP-6/280V-D |
| Voltage (MIN) | 280 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | | |
|--|--------------------------------|-----------|-----------|-----------|-----------|--|
| Lamp | Specifications by line voltage | | | | | |
| | 120 | 208 | 240 | 277 | | |
| M110, M148 50W Quartz Metal Halide | System Wattage (W) | 61 | 61 | 61 | 61 | |
| | Nominal Current | 0.60 A | 0.30 A | 0.30 A | 0.20 A | |
| | Ballast Factor | 1 | 1 | 1 | 1 | |
| | Ballast Efficiency Factor | 0.82 | 0.82 | 0.82 | 0.82 | |
| | Max Input Current | 1.16 A | 0.67 A | 0.58 A | 0.50 A | |
| | Starting Current | 0.61 A | 0.34 A | 0.30 A | 0.26 A | |
| | Open Circuit Voltage | 264V | 264V | 264V | 264V | |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 | |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | |
| | Fuse Rating | 3 | 3 | 2 | 2 | |
| | UL Bench Top Rise | C | C | C | C | |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|---|---------------------|
| Wiring diagram HID W-(H) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 1.0 |
| B | 2.0 |
| Weight | 3.40 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

86847 – GEM70MLTLC3D-5

Metal Halide

1 – 70W MH M98 or M143 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M98 or M143 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 180C |
| Type of Capacitor | Dry film |
| Capacitance | 8 Mfd GECAP-8/280V-D |
| Voltage (MIN) | 280 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | | |
|--|--------------------------------|-----------|-----------|-----------|-----------|--|
| Lamp | Specifications by line voltage | | | | | |
| | 120 | 208 | 240 | 277 | | |
| M98, M143 70W Ceramic Metal Halide | System Wattage (W) | 88 | 88 | 88 | 88 | |
| | Nominal Current | 0.90 A | 0.50 A | 0.40 A | 0.40 A | |
| | Ballast Factor | 1 | 1 | 1 | 1 | |
| | Ballast Efficiency Factor | 0.80 | 0.80 | 0.80 | 0.80 | |
| | Max Input Current | 1.51 A | 0.88 A | 0.75 A | 0.66 A | |
| | Starting Current | 0.96 A | 0.59 A | 0.49 A | 0.44 A | |
| | Open Circuit Voltage | 257V | 257V | 257V | 257V | |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 | |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | |
| | Fuse Rating | 4 | 3 | 3 | 2 | |
| | UL Bench Top Rise | A | A | A | A | |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|---|---------------------|
| Wiring diagram HID W-(H) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.0 |
| B | 3.0 |
| Weight | 5.00 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 20 – 175W Metal Halide HID Lamps

78517 – GEM70TRILC3-5

Metal Halide

1 – 70W M143 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M143 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Dry film |
| Capacitance | 8 Mfd GECAP-8/280V-D |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| M143 | 120 | 277 | 347 | |
| | System Wattage (W) | 91 | 91 | 91 |
| | Nominal Current | 0.90A | 0.39A | 0.31A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.77 | 0.77 | 0.77 |
| | Max Input Current | 1.00 A | 0.43 A | 0.34 A |
| | Starting Current | 1.10 A | 1.10 A | 1.10 A |
| | Open Circuit Voltage | 230V | 230V | 230V |
| | Drop Out Voltage | 102V | 235V | 295V |
| | Power Factor (s=) % | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 3 | 1 | 1 |
| | UL Bench Top Rise | A | A | A |

Safety and performance cUL Listed  UL Listed

67337 – GEM7048TLA3D-5/2

Metal Halide

1 – 70W MH M98 or M143 480

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M98 or M143 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Dry film |
| Capacitance | 8 Mfd GECAP-8/280V-D |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | |
|---|--------------------------------|-----------|
| Lamp | Specifications by line voltage | |
| M98 | 480 | |
| | System Wattage (W) | 98 |
| | Nominal Current | 0.23A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.71 |
| | Max Input Current | 0.23 A |
| | Starting Current | 1.10 A |
| | Open Circuit Voltage | 260V |
| | Drop Out Voltage | 360V |
| | Power Factor (s=) % | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 |
| | Fuse Rating | 1 |
| | UL Bench Top Rise | A |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 1.50 in (38 mm) |
| B | 2.95 in (75 mm) |
| Weight | 5.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.54 in (90 mm) |
| Frame Size (H x L) | 2.82 in (72 mm) x 3.94 in (101 mm) |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(F) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-67 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 1.50 |
| B | 2.60 |
| Weight | 4.80 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 20 – 175W Metal Halide HID Lamps

86675 – GEM100MLTLC3D-5

Metal Halide

1 – 100W MH M90 or M140 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M92, M90, M140 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 180C |
| Type of Capacitor | Dry film |
| Capacitance | 12 Mfd GECAP-12/280V-D |
| Voltage (MIN) | 280 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|--|--------------------------------|---------------------------|-----------|-----------|--------|--------|
| Lamp | Specifications by line voltage | | | | Lamp | Specifications by line voltage | | | | | |
| M92 | 120 | 208 | 240 | 277 | M90, M140 Ceramic Metal Halide 100W Quartz Metal Halide | 120 | 208 | 240 | 277 | | |
| | System Wattage (W) | 119 | 119 | 119 | | 119 | System Wattage (W) | 119 | 119 | 119 | 119 |
| | Nominal Current | 1.10 A | 0.60 A | 0.50 A | | 0.50 A | Nominal Current | 1.10 A | 0.60 A | 0.50 A | 0.50 A |
| | Ballast Factor | 1 | 1 | 1 | | 1 | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | | | | | | Ballast Efficiency Factor | 0.84 | 0.84 | 0.84 | 0.84 |
| | Max Input Current | 2.27 A | 1.30 A | 1.13 A | | 0.98 A | Max Input Current | 2.27 A | 1.30 A | 1.13 A | 0.98 A |
| | Starting Current | 1.26 A | 0.69 A | 0.60 A | | 0.53 A | Starting Current | 1.26 A | 0.69 A | 0.60 A | 0.53 A |
| | Open Circuit Voltage | 274V | 274V | 274V | | 274V | Open Circuit Voltage | 274V | 274V | 274V | 274V |
| | Drop Out Voltage | 96V | 166V | 192V | | 222V | Drop Out Voltage | 96V | 166V | 192V | 222V |
| | Power Factor (≥) % | 90 | 90 | 90 | | 90 | Power factor (≥) % | 90 | 90 | 90 | 90 |
| Min. Starting Temp | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | Min. starting temperature | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | | |
| Fuse Rating | 5 | 4 | 3 | 3 | Fuse rating | 5 | 4 | 3 | 3 | | |
| UL Bench Top Rise | D | D | D | D | UL bench top rise | D | D | D | D | | |

Safety and performance  cUL Listed  UL Listed

78519 – GEM100TRILC3-5

Metal Halide

1 – 100W M140 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M140 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Dry film |
| Capacitance | 12 Mfd GECAP-12/280V-D |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| M140 100W MH | 120 | 277 | 347 | |
| | System Wattage (W) | 128 | 128 | 128 |
| | Nominal Current | 1.16 A | 0.50 A | 0.40 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.8 | 0.8 | 0.8 |
| | Max Input Current | 1.28 A | 0.55 A | 0.44 A |
| | Starting Current | 1.50 A | 1.50 A | 1.50 A |
| | Open Circuit Voltage | 230V | 230V | 230V |
| | Drop Out Voltage | 102V | 235V | 295V |
| | Power Factor (≥) % | 90 | 90 | 90 |
| | Min. Starting Temp | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 5.5 | 1.5 | 1.0 |
| | UL Bench Top Rise | A | A | A |

Safety and performance  cUL Listed  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(H) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.0 |
| B | 3.0 |
| Weight | 5.00 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 1.61 in (41 mm) |
| B | 3.07 in (75 mm) |
| Weight | 5.43 lbs |
| Exit Type | Side |
| Nominal Length | 3.54 in (90 mm) |
| Frame Size (H x L) | 2.82 in (72 mm) x 3.94 in (101 mm) |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 20 – 175W Metal Halide HID Lamps

67333 – GEM10048TLA3D-5/2

Metal Halide

1 – 100W MH M90 or M140 480

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M90 or M140 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Dry film |
| Capacitance | 12 Mfd GECAP-12/280V-D |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|---|--------------------------------|-----------|
| M90, M140 100W Ceramic Metal Halide | 480 | |
| | System Wattage (W) | 130 |
| | Nominal Current | 0.30 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.76 |
| | Max Input Current | 0.30 A |
| | Starting Current | 1.40 A |
| | Open Circuit Voltage | 245V |
| | Drop Out Voltage | 346V |
| | Power Factor (>=)% | 90 |
| | Min. Starting Temp (*F/*C) | -20 / -30 |
| | Fuse Rating | 1 |
| | UL Bench Top Rise | A or D |

Safety and performance cUL Listed  UL Listed

86718 – GEM150MLTLC3D-5

Metal Halide

1 – 150W MH M102 or M142 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M142, M102 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 180C |
| Type of Capacitor | Dry film |
| Capacitance | 16 Mfd GECAP-16/280V-D |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| M142, M102 150W Ceramic Metal Halide | 120 | 208 | 240 | 277 | |
| | System Wattage (W) | 186 | 186 | 186 | |
| | Nominal Current | 1.60 A | 1.00 A | 0.80 A | 0.70 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.81 | 0.81 | 0.81 | 0.81 |
| | Max Input Current | 3.37 A | 1.95 A | 1.68 A | 1.39 A |
| | Starting Current | 1.86 A | 1.03 A | 0.89 A | 0.77 A |
| | Open Circuit Voltage | 257V | 257V | 257V | 257V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V |
| | Power Factor (>=)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (*F/*C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 10 | 5 | 5 | 4 |
| | UL Bench Top Rise | A | B | A | A |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|---|---------------------|
| Wiring diagram HID W-(F) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 1.60 |
| B | 2.80 |
| Weight | 5.10 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|---|---------------------|
| Wiring diagram HID W-(H) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.3 |
| B | 4.0 |
| Weight | 7.00 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 20 – 175W Metal Halide HID Lamps

78520 – GEM150TRILC3-5

Metal Halide

1 – 150W M102 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M102 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Dry film |
| Capacitance | 16 Mfd GECAP-16/280V-D |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| M102 | 120 | 277 | 347 | |
| 150W | System Wattage (W) | 190 | 190 | 190 |
| MH | Nominal Current | 1.7 A | 0.75 A | 0.59 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.8 | 0.8 | 0.8 |
| | Max Input Current | 1.87 A | .83 A | .65 A |
| | Starting Current | 2.30 A | 2.30 A | 2.30 A |
| | Open Circuit Voltage | 235V | 235V | 235V |
| | Drop Out Voltage | 102V | 235V | 295V |
| | Power Factor (≥)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 5 | 3 | 2 |
| | UL Bench Top Rise | A | A | A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.17 in (55 mm) |
| B | 3.62 in (92 mm) |
| Weight | 6.91 lbs |
| Exit Type | Side |
| Nominal Length | 3.54 in (90 mm) |
| Frame Size (H x L) | 2.82 in (72 mm) x 3.94 in (101 mm) |

86711 – GEM15048TLC3D-5

Metal Halide

1 – 150W MH M102 or M142 480

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M142, M102, M107 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 180C |
| Type of Capacitor | Dry film |
| Capacitance | 16 Mfd GECAP-16/280V-D |
| Voltage (MIN) | 280 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|------|--------------------------------|-----------|
| Lamp | Specifications by line voltage | | Lamp | Specifications by line voltage | |
| M102, M142 | 480 | | M107 | 480 | |
| 150W Ceramic Metal Halide | System Wattage (W) | 185 | | System Wattage (W) | 185 |
| | Nominal Current | 0.40 A | | Nominal Current | 0.40 A |
| | Ballast Factor | 1 | | Ballast Factor | 1 |
| 150W Quartz Metal Halide | Ballast Efficiency Factor | 0.81 | | Ballast Efficiency Factor | 0.83 |
| | Max Input Current | 0.85 A | | Max Input Current | 0.85 A |
| | Starting Current | 0.38 A | | Starting Current | 0.38 A |
| | Open Circuit Voltage | 264V | | Open Circuit Voltage | 264V |
| | Drop Out Voltage | 384V | | Drop Out Voltage | 384V |
| | Power Factor (≥)% | 90 | | Power Factor (≥)% | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | | Min. Starting Temp (°F/°C) | -22 / -30 |
| | Fuse Rating | 2 | | Fuse Rating | 2 |
| | UL Bench Top Rise | E | | UL Bench Top Rise | E |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(E) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.3 |
| B | 3.9 |
| Weight | 7.00 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 20 – 175W Metal Halide HID Lamps

87210 – GEM175ML5AC3-5

Metal Halide

1 – 175W MH M57 5-Tap (120/208/240/277/480V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M57, H39, M109 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 10 Mfd GE CAP-10/400V-O |
| Voltage (MIN) | 400 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | | |
| M57, M109 | System Wattage (W) | 120 | 208 | 240 | 277 | 480 |
| | Nominal Current | 1.70 A | 1.00 A | 0.90 A | 0.80 A | 0.40 A |
| | Ballast Factor | 1 | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| | Max Input Current | 1.70 A | 1.00 A | 0.90 A | 0.80 A | 0.40 A |
| | Starting Current | 0.60 A | 0.37 A | 0.32 A | 0.28 A | 0.21 A |
| | Open Circuit Voltage | 307V | 307V | 307V | 307V | 307V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | 384V |
| | Power Factor (s=)% | 90 | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 5 | 3 | 3 | 2 | 1.5 |
| | UL Bench Top Rise | D | C | C | C | C |

Safety and performance cUL Listed  UL Listed

86741 – GEM175MLTAC3-5

Metal Halide

1 – 175W MH M57 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M57, M107 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 10 Mfd GE CAP-10/400V-O |
| Voltage (MIN) | 400 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-------------------------------------|---------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | Lamp | Specifications by line voltage | | | | | |
| M57 175W Quartz Metal Halide | System Wattage (W) | 120 | 208 | 240 | 277 | M107 150W Quartz Metal Halide | System Wattage (W) | 120 | 208 | 240 | 277 |
| | Nominal Current | 1.80 A | 1.00 A | 0.90 A | 0.80 A | | Nominal Current | 1.80 A | 1.00 A | 0.90 A | 0.80 A |
| | Ballast Factor | 1 | 1 | 1 | 1 | | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.83 | 0.83 | 0.83 | 0.83 | | Ballast Efficiency Factor | 0.83 | 0.83 | 0.83 | 0.83 |
| | Max Input Current | 1.80 A | 1.00 A | 0.90 A | 0.80 A | | Max Input Current | 1.80 A | 1.00 A | 0.90 A | 0.80 A |
| | Starting Current | 0.96 A | 0.56 A | 0.48 A | 0.42 A | | Starting Current | 0.96 A | 0.56 A | 0.48 A | 0.42 A |
| | Open Circuit Voltage | 302V | 302V | 302V | 302V | | Open Circuit Voltage | 302V | 302V | 302V | 302V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | | Drop Out Voltage | 96V | 166V | 192V | 222V |
| | Power Factor (s=)% | 90 | 90 | 90 | 90 | | Power factor (s=)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | | Min. starting temperature | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 5 | 3 | 3 | 2 | | Fuse rating | 5 | 3 | 3 | 2 |
| | UL Bench Top Rise | B | B | B | C | | UL bench top rise | B | B | B | C |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 Volt) featuring a 480-Volt tap

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(K) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 3.0 |
| B | 4.0 |
| Weight | 3.40 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |
| Lead lengths | |
| Orange | |
| Violet and Black | |
| Violet/White | |
| Black/Yellow | |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(C) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 1.0 |
| B | 2.0 |
| Weight | 3.40 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

Ballasts

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

Metal Halide

HID Electronic and Electromagnetic Ballasts For 20 – 175W Metal Halide HID Lamps

78521 – GEM175TRIAC3-5

Metal Halide

1 – 175W M57 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M57 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 12 Mfd |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| M57 | 120 | 277 | 347 | |
| 150W | System Wattage (W) | 208 | 208 | 208 |
| MH | Nominal Current | 1.88 A | .85 A | .65 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.82 | 0.82 | 0.82 |
| | Max Input Current | 2.07 A | .94 A | .72 A |
| | Starting Current | 1.88 A | 1.88 A | 1.88 A |
| | Open Circuit Voltage | 295V | 295V | 295V |
| | Drop Out Voltage | 72V | 166V | 208V |
| | Power Factor (>=) % | 90 | 90 | 90 |
| | Min. Starting Temp | -20 / -29 | -20 / -29 | -20 / -29 |
| | Fuse Rating | 6 | 3 | 2 |
| | UL Bench Top Rise | A | A | A |

Safety and performance  

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|---|------------------------------------|
| Wiring diagram HID W-(M) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.17 in (55 mm) |
| B | 3.62 in (92 mm) |
| Weight | 6.91 lbs |
| Exit Type | Side |
| Nominal Length | 3.54 in (90 mm) |
| Frame Size (H x L) | 2.82 in (72 mm) x 3.94 in (101 mm) |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 250 – 1500W Metal Halide HID Lamps

87211 – GEM250ML5AC3-5

Metal Halide

1 – 250W MH M58 5-Tap (120/208/240/277/480V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M58 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 15 Mfd GECAP-15/400V-O |
| Voltage (MIN) | 400 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | | |
| M58 | 120 | 208 | 240 | 277 | 480 | |
| 250W Quartz Metal Halide | System Wattage (W) | 280 | 280 | 280 | 280 | 280 |
| | Nominal Current | 2.50 A | 1.40 A | 1.25 A | 1.10 A | 0.65 A |
| | Ballast Factor | 1 | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| | Max Input Current | 2.60 A | 1.60 A | 1.30 A | 1.20 A | 0.70 A |
| | Starting Current | 1.50 A | 1.00 A | 0.80 A | 0.70 A | 0.50 A |
| | Open Circuit Voltage | 290V | 290V | 290V | 290V | 290V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | 384V |
| | Power Factor (≥%) | 90 | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 8 | 5 | 4 | 3 | 2 |
| | UL Bench Top Rise | B | B | B | C | C |

Safety and performance cUL Listed  UL Listed

86765 – GEM250MLTAC3-5

Metal Halide

1 – 250W MH M58 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M58 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 15 Mfd GECAP-15/400V-O |
| Voltage (MIN) | 400 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| M58 | 120 | 208 | 240 | 277 |
| 250W Quartz Metal Halide | System Wattage (W) | 294 | 294 | 294 |
| | Nominal Current | 2.65 A | 1.50 A | 1.30 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.85 | 0.85 | 0.85 |
| | Max Input Current | 2.60 A | 1.58 A | 1.30 A |
| | Starting Current | 1.88 A | 1.15 A | 0.95 A |
| | Open Circuit Voltage | 315V | 315V | 315V |
| | Drop Out Voltage | 96V | 166V | 192V |
| | Power Factor (≥%) | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 8 | 5 | 4 |
| | UL Bench Top Rise | C | D | C |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(K) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 3.0 |
| B | 4.3 |
| Weight | 9.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.2 in (83 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |
| Lead lengths | |
| Orange | |
| Violet and Black | |
| Violet/White | |
| Black/Yellow | |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(C) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 3.0 |
| B | 4.3 |
| Weight | 9.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.2 in (83 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 250 – 1500W Metal Halide HID Lamps

78522 – GEM250TRIAC4-5

Metal Halide

1 – 250W M58 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M58 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 15 Mfd GECAP-15/400V-O |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| M58 250W MH | System Wattage (W) | 120 | 277 | 347 |
| | Nominal Current | 2.5A | 1.08A | 0.86A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.85 | 0.85 | 0.85 |
| | Max Input Current | 2.75 A | 1.19 A | 0.95 A |
| | Starting Current | 2.30 A | 2.30 A | 2.30 A |
| | Open Circuit Voltage | 305V | 305V | 305V |
| | Drop Out Voltage | 72V | 166V | 208V |
| | Power Factor (>=)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -29 | -20 / -29 | -20 / -29 |
| | Fuse Rating | 8 | 3 | 3 |
| | UL Bench Top Rise | A | A | A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|-------------------------------------|
| Wiring diagram HID W-(M) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.17 in (55 mm) |
| B | 3.62 in (92 mm) |
| Weight | 10.02 lbs |
| Exit Type | Side |
| Nominal Length | 4.37 in (111 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 4.75 in (121 mm) |

87212 – GEM250ML5AC4-5

Metal Halide

1 – 250W MH M58 or 5-Tap (120/208/240/277/480V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M58 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 15 Mfd GECAP-15/400V-O |
| Voltage (MIN) | 400 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | | |
| M58 | System Wattage (W) | 120 | 208 | 240 | 277 | 480 |
| | Nominal Current | 4.00 A | 2.30 A | 2.00 A | 1.70 A | 1.00 A |
| | Ballast Factor | 1 | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| | Max Input Current | 2.50 A | 1.40 A | 1.30 A | 1.10 A | 0.65 A |
| | Starting Current | 2.50 A | 1.40 A | 1.20 A | 1.00 A | 0.60 A |
| | Open Circuit Voltage | 300V | 300V | 300V | 300V | 300V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | 384V |
| | Power Factor (>=)% | 90 | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 8 | 5 | 4 | 3 | 2 |
| | UL Bench Top Rise | A | A | A | A | A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(K) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 1.8 |
| B | 3.6 |
| Weight | 10.80 lbs |
| Exit Type | Side |
| Nominal Length | 3.2 in (83 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |
| Lead lengths | |
| Orange | |
| Violet and Black | |
| Violet/White | |
| Black/Yellow | |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 250 – 1500W Metal Halide HID Lamps

78523 – GEM400TRIAC4-5

Metal Halide

1 – 400W M59 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M59 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd GECAP-24/480V-O |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| M59 | 120 | 277 | 347 | |
| 400W | System Wattage (W) | 460 | 460 | 460 |
| MH | Nominal Current | 4.0 A | 1.75 A | 1.38 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.86 | 0.86 | 0.86 |
| | Max Input Current | 4.40 A | 1.93 A | 1.52 A |
| | Starting Current | 4.00 A | 4.00 A | 4.00 A |
| | Open Circuit Voltage | 305V | 305V | 305V |
| | Drop Out Voltage | 72V | 166V | 208V |
| | Power Factor (s>=)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -29 | -20 / -29 | -20 / -29 |
| | Fuse Rating | 8 | 3 | 3 |
| | UL Bench Top Rise | A | A | B |

Safety and performance  UL Listed

72300 – GEM400ML5AA4-5/2

Metal Halide

1 – 400W M59 or H33 5-Tap (120/208/240/277/480V) A1 C&C

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M59 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd GECAP-24/400V-O |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | | |
| M59 | 120 | 208 | 240 | 277 | 480 | |
| 400W Quartz | System Wattage (W) | 461 | 461 | 461 | 461 | 461 |
| Metal Halide | Nominal Current | 4.0 A | 2.3 A | 2.0 A | 1.75 A | 1.00 A |
| | Ballast Factor | 1 | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 |
| | Max Input Current | 4.0 A | 2.3 A | 2.0 A | 1.75 A | 1.00 A |
| | Starting Current | 3.90 A | 3.90 A | 3.90 A | 3.90 A | 3.90 A |
| | Open Circuit Voltage | 300V | 300V | 300V | 300V | 300V |
| | Drop Out Voltage | 580V | 580V | 580V | 580V | 580V |
| | Power Factor (s>=)% | 90 | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 8 | 5 | 4 | 3 | 2 |
| | UL Bench Top Rise | D or A | D or A | D or A | D or A | D or A |

Safety and performance  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|-------------------------------------|
| Wiring diagram HID W-(M) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.17 in (55 mm) |
| B | 4.06 in (103 mm) |
| Weight | 11.11 lbs |
| Exit Type | Side |
| Nominal Length | 4.37 in (111 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 4.75 in (121 mm) |
| Lead lengths | |
| Orange | |
| Violet and Black | |
| Violet/White | |
| Black/Yellow | |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 Volt) featuring a 480-Volt tap

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(K) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 0.25 in (6 mm) |
| B | 2.17 |
| Weight | 10.8 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |
| Lead lengths | |
| Orange | |
| Violet and Black | |
| Violet/White | |
| Black/Yellow | |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 250 – 1500W Metal Halide HID Lamps

72149 – GEM400MLTAA4-5

Metal Halide

1 – 400W MH M59 Quad (120/208/240/277V) A1 C&C

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M59 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd GECAP-24/400V-O |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | |
| M59 | 120 | 208 | 240 | 277 | |
| 400W Quartz Metal Halide | System Wattage (W) | 457 | 457 | 457 | 457 |
| | Nominal Current | 4.0 A | 2.30 A | 2.00 A | 1.75 A |
| 360W Quartz Metal Halide | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.93 | 0.93 | 0.93 | 0.93 |
| | Max Input Current | 4.0 A | 2.30 A | 2.00 A | 1.75 A |
| | Starting Current | 3.80 A | 3.80 A | 3.80 A | 3.80 A |
| | Open Circuit Voltage | 300V | 300V | 300V | 300V |
| | Drop Out Voltage | 580V | 580V | 580V | 580V |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 8 | 5 | 4 | 3 |
| | UL Bench Top Rise | D or A | D or A | D or A | D or A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(C) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.17 |
| B | 3.90 |
| Weight | 10.80 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

63070 – GEM40048TAA4 – 5/2

Metal Halide

1 – 400W MH M59 480

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M59 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd GECAP-24/400V-O |
| Voltage (MIN) | 400 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | |
|---|--------------------------------|-----------|
| Lamp | Specifications by line voltage | |
| M59 | 480 | |
| 400W Quartz Metal Halide | System Wattage (W) | 460 |
| | Nominal Current | 1.00 A |
| 360W Quartz Metal Halide | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.90 |
| | Max Input Current | 1.00 A |
| | Starting Current | 3.80 A |
| | Open Circuit Voltage | 295V |
| | Drop Out Voltage | 560V |
| | Power Factor (≥)% | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 |
| | Fuse Rating | 2 |
| | UL Bench Top Rise | D or A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(L) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.17 |
| B | 3.90 |
| Weight | 11.50 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 250 – 1500W Metal Halide HID Lamps

63069 – GEM100048TAC5-5/2

Metal Halide

1 – 1000W MH M47 480

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M47 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd GECAP-24/480V-O |
| Voltage (MIN) | 480 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|-------------------------------------|--------------------------------|-----------|
| M47 1000W Quartz Metal Halide | 480 | |
| | System Wattage (W) | 1,050 |
| | Nominal Current | 2.25 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 1 |
| | Max Input Current | 2.25 A |
| | Starting Current | 5.60 A |
| | Open Circuit Voltage | 420V |
| | Drop Out Voltage | 840V |
| | Power Factor (≥)% | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 |
| | Fuse Rating | 5 |
| | UL Bench Top Rise | D or A |

Safety and performance  UL Listed

87213 – GEM1000ML5AA5-5/2

Metal Halide

1 – 1000W MH M47 5-Tap (120/208/240/277/480V)

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M47 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd GECAP-24/480V-O |
| Voltage (MIN) | 480 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | | | | | |
|-------------------------------------|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| M47 1000W Quartz Metal Halide | 120 | 208 | 240 | 277 | 480 | |
| | System Wattage (W) | 1,050 | 1,050 | 1,050 | 1,050 | 1,050 |
| | Nominal Current | 9.00 A | 5.20 A | 4.50 A | 3.90 A | 2.25 A |
| | Ballast Factor | 1 | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| | Max Input Current | 9.00 A | 5.20 A | 4.50 A | 3.90 A | 2.25 A |
| | Starting Current | 5.60 A | 5.60 A | 5.60 A | 5.60 A | 5.60 A |
| | Open Circuit Voltage | 415V | 415V | 415V | 415V | 415V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | 384V |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 18 | 10 | 9 | 7 | 5 |
| | UL Bench Top Rise | D or A | D or A | D or A | D or A | D or A |

Safety and performance  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications.
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity.
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(J) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 7.75 in (197 mm) |
| Width (W) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 3.25 |
| B | 5.20 |
| Weight | 21.30 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 Volt) featuring a 480-Volt tap

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(K) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 7.75 in (197 mm) |
| Width (W) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 3.0 |
| B | 5.0 |
| Weight | 21.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |
| Lead lengths | |
| Orange | |
| Violet and Black | |
| Violet/White | |
| Black/Yellow | |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 250 – 1500W Metal Halide HID Lamps

86655 – GEM1000MLTAA5-5/2

Metal Halide

1 – 1000W MH M47 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M47 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd GECAP-24/480V-O |
| Voltage (MIN) | 540 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | 120 | 208 | 240 | 277 |
| M47 1000W Quartz Metal Halide | System Wattage (W) | 1,050 | 1,050 | 1,050 | 1,050 |
| | Nominal Current | 8.80 A | 5.10 A | 4.40 A | 3.80 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.91 | 0.91 | 0.91 | 0.91 |
| | Max Input Current | 8.80 A | 5.10 A | 4.40 A | 3.80 A |
| | Starting Current | 5.60 A | 5.60 A | 5.60 A | 5.60 A |
| | Open Circuit Voltage | 415V | 415V | 415V | 415V |
| | Drop Out Voltage | 830V | 830V | 830V | 830V |
| | Power Factor (s>=)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 18 | 10 | 9 | 7 |
| | UL Bench Top Rise | D or A | D or A | D or A | D or A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(C) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 7.75 in (197 mm) |
| Width (W) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 3.10 |
| B | 5.30 |
| Weight | 20.30 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |

78524 – GEM1000TRAC5-5

Metal Halide

1 – 1000W M47 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M47 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd GECAP-24/480V-O |
| Voltage (MIN) | 540 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | 120 | 277 | 347 |
| M47 1000W MH | System Wattage (W) | 1080 | 1080 | 1080 |
| | Nominal Current | 9.5 A | 4.0 A | 3.3 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.92 | 0.92 | 0.92 |
| | Max Input Current | 10.5 A | 4.4 A | 3.6 A |
| | Starting Current | 5.70 A | 5.70 A | 5.70 A |
| | Open Circuit Voltage | 305V | 305V | 305V |
| | Drop Out Voltage | 72V | 166V | 208V |
| | Power Factor (s>=)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -29 | -20 / -29 | -20 / -29 |
| | Fuse Rating | 28 | 12 | 10 |
| | UL Bench Top Rise | E | E | E |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|-------------------------------------|
| Wiring diagram HID W-(M) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.96 in (75 mm) |
| B | 4.92 in (125 mm) |
| Weight | 24.1 lbs |
| Exit Type | Side |
| Nominal Length | 5.37 in (136 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 6.00 in (152 mm) |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 250 – 1500W Metal Halide HID Lamps

86693 – GEM150048TAC5M5-5

Metal Halide

1 – 1500W MH M48 480

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M48 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 32 Mfd GECAP-32/525V-O |
| Voltage (MIN) | 525 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|-------------------------------------|--------------------------------|-----------|
| M48 1500W Quartz Metal Halide | 480 | |
| | System Wattage (W) | 1,581 |
| | Nominal Current | 3.10 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.95 |
| | Max Input Current | 3.10 A |
| | Starting Current | 3.18 A |
| | Open Circuit Voltage | 449V |
| | Drop Out Voltage | 384V |
| | Power Factor (≥)% | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 |
| | Fuse Rating | 10 |
| | UL Bench Top Rise | G |

Safety and performance  UL Listed

86698 – GEM1500MLTAC5-5

Metal Halide

1 – 1500W MH M48 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M48 |
| Voltage | 240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 32 Mfd GECAP-32/525V-O |
| Voltage (MIN) | 525 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | | | | |
|-------------------------------------|--------------------------------|-----------|-----------|-----------|-----------|
| M48 1500W Quartz Metal Halide | 120 | 208 | 240 | 277 | |
| | System Wattage (W) | 1,602 | 1,602 | 1,602 | 1,602 |
| | Nominal Current | 13.70 A | 7.70 A | 6.80 A | 6.00 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.94 | 0.94 | 0.94 | 0.94 |
| | Max Input Current | 13.70 A | 7.70 A | 6.80 A | 6.00 A |
| | Starting Current | 12.95 A | 7.46 A | 6.52 A | 5.75 A |
| | Open Circuit Voltage | 440V | 440V | 440V | 440V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 40 | 25 | 20 | 20 |
| | UL Bench Top Rise | E | A | A | A |

Safety and performance  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(J) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 7.75 in (197 mm) |
| Width (W) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 4.0 |
| B | 6.0 |
| Weight | 30.00 lbs |
| Exit Type | Side |
| Nominal Length | 5.2 in (133 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(C) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 7.75 in (197 mm) |
| Width (W) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 4.0 |
| B | 6.0 |
| Weight | 30.00 lbs |
| Exit Type | Side |
| Nominal Length | 5.2 in (133 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |

Pulse Start

HID Electronic and Electromagnetic For 175 – 1000W Pulse Start Metal Halide HID Lamps

67335 – GEP175MLTACA3-5/2

Pulse Start

1 – 175W PS M137 or M152 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M152, M137 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 10 Mfd GE CAP-10/450V-O |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | |
| M153 250W Quartz Metal Halide | System Wattage (W) | 120 | 208 | 240 | 277 |
| | Nominal Current | 1.88 A | 1.08 A | 0.94 A | 0.82 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | .08 | .08 | .08 | .08 |
| M137 175W Quartz Metal Halide | Max Input Current | 1.88 A | 1.08 A | 0.94 A | 0.82 A |
| | Starting Current | 1.70 A | 1.70 A | 1.70 A | 1.70 A |
| | Open Circuit Voltage | 305V | 305V | 305V | 305V |
| | Drop Out Voltage | 580V | 580V | 580V | 580V |
| | Power Factor (>=) % | 90 | 90 | 90 | 90 |
| | Min. Starting Temp | -20 / -30 | -20 / -30 | -20 / -30 | -20 / -30 |
| | Fuse Rating | 3 | 2 | 2 | 1 |
| | UL Bench Top Rise | D or A | D or A | D or A | D or A |

Safety and performance  UL Listed

78525 – GEP175TRIAC3-5

Pulse Start

1 – 175W PS M137 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M137 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 12 Mfd |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| M137 200W PS | System Wattage (W) | 120 | 277 | 347 |
| | Nominal Current | 1.95 A | 0.85 A | 0.68 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.86 | 0.86 | 0.86 |
| | Max Input Current | 2.15 A | .94 A | .75 A |
| | Starting Current | 1.85 A | 1.85 A | 1.85 A |
| | Open Circuit Voltage | 270V | 270V | 270V |
| | Drop Out Voltage | 78V | 180V | 226V |
| | Power Factor (>=) % | 90 | 90 | 90 |
| | Min. Starting Temp | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 6 | 3 | 2 |
| | UL Bench Top Rise | A | A | A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(A) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.60 |
| B | 3.90 |
| Weight | 7.20 lbs |
| Exit Type | Side |
| Nominal Length | 3.2 in (83 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.17 in (55 mm) |
| B | 3.62 in (92 mm) |
| Weight | 6.98 lbs |
| Exit Type | Side |
| Nominal Length | 3.54 in (90 mm) |
| Frame Size (H x L) | 2.82 in (72 mm) x 3.94 in (101 mm) |

Pulse Start

HID Electronic and Electromagnetic For 175 – 1000W Pulse Start Metal Halide HID Lamps

67334 – GEP17548TAA3-5/2

Pulse Start

1 – 175W PS M137 or M152 480

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M152, M137 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 10 Mfd GECAP-10/400V-0 |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|---|--------------------------------|-----------|
| M152, M137 175W Quartz Metal Halide | 480 | |
| | System Wattage (W) | 215 |
| | Nominal Current | 0.47 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.81 |
| | Max Input Current | 0.47 A |
| | Starting Current | 1.70 A |
| | Open Circuit Voltage | 300V |
| | Drop Out Voltage | 580V |
| | Power Factor (≥)% | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 |
| | Fuse Rating | 1 |
| | UL Bench Top Rise | C or A |

Safety and performance  UL Listed

78526 – GEP200TRIAC3-5

Pulse Start

1 – 200W PS M136 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M136 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 16 Mfd |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | | | |
|--------------------|--------------------------------|-----------|-----------|-----------|
| M136 200W PS | 120 | 277 | 347 | |
| | System Wattage (W) | 240 | 240 | 240 |
| | Nominal Current | 2.2 A | 0.95 A | 0.76 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.81 | 0.81 | 0.81 |
| | Max Input Current | 2.20 A | 0.95 A | 0.76 A |
| | Starting Current | 1.95 A | 1.95 A | 1.95 A |
| | Open Circuit Voltage | 250V | 250V | 250V |
| | Drop Out Voltage | 90V | 208V | 260V |
| | Power Factor (≥)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 7 | 3 | 2 |
| | UL Bench Top Rise | D | B | A |

Safety and performance  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(E) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.6 |
| B | 3.9 |
| Weight | 7.20 lbs |
| Exit Type | Side |
| Nominal Length | 3.2 in (83 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|--|------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.48 in (63 mm) |
| B | 3.94 in (100 mm) |
| Weight | 7.77 lbs |
| Exit Type | Side |
| Nominal Length | 3.54 in (90 mm) |
| Frame Size (H x L) | 2.82 in (72 mm) x 3.94 in (101 mm) |

Pulse Start

HID Electronic and Electromagnetic For 175 – 1000W Pulse Start Metal Halide HID Lamps

67344 – GEP250MLTAA4-5/2

Pulse Start

1 – 250W PS M138 or M153 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M153, M138 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 15 Mfd GECAP-15/400V-O |
| Voltage (MIN) | 370 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | |
| M153, M138 250W Quartz Metal Halide | System Wattage (W) | 120 | 208 | 240 | 277 |
| | Nominal Current | 2.45 A | 1.41 A | 1.23 A | 1.06 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.85 | 0.85 | 0.85 | 0.85 |
| | Max Input Current | 2.45 A | 1.41 A | 1.23 A | 1.06 A |
| | Starting Current | 2.45 A | 2.45 A | 2.45 A | 2.45 A |
| | Open Circuit Voltage | 275V | 275V | 275V | 275V |
| | Drop Out Voltage | 550V | 550V | 550V | 550V |
| | Power Factor $b \geq 1\%$ | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 | -20 / -30 | -20 / -30 | -20 / -30 |
| | Fuse Rating | 5 | 3 | 2 | 2 |
| | UL Bench Top Rise | A or B | A or B | A or B | A or B |

Safety and performance  UL Listed

78527 – GEP250TRIAC4-5

Pulse Start

1 – 250W PS M138 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M138 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 15 Mfd GECAP-15/400V-O |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| M138 250W PS | System Wattage (W) | 120 | 277 | 347 |
| | Nominal Current | 2.5 A | 1.1 A | 0.86 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.85 | 0.85 | 0.85 |
| | Max Input Current | 2.75 A | 1.21 A | .95 A |
| | Starting Current | 2.20 A | 0.95 A | 0.80 A |
| | Open Circuit Voltage | 270V | 270V | 270V |
| | Drop Out Voltage | 78V | 180V | 226V |
| | Power Factor $b \geq 1\%$ | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 8 | 3 | 3 |
| | UL Bench Top Rise | A | A | A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(A) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 1.77 |
| B | 3.50 |
| Weight | 9.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.2 in (83 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|-------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 1.5 in (38 mm) |
| B | 3.23 in (82 mm) |
| Weight | 9.4 lbs |
| Exit Type | Side |
| Nominal Length | 4.37 in (111 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 4.75 in (121 mm) |

Pulse Start

HID Electronic and Electromagnetic For 175 – 1000W Pulse Start Metal Halide HID Lamps

67336 – GEP25048TAA4-5/2

Pulse Start

1 – 250W PS M138 or M153 480

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M153, M138 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 15 Mfd GECAP-15/400V-O |
| Voltage (MIN) | 370 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|-------------------------------------|--------------------------------|-----------|
| M153 250W Quartz Metal Halide | | 480 |
| | System Wattage (W) | 294 |
| | Nominal Current | 0.62 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.84 |
| | Max Input Current | 0.62 A |
| | Starting Current | 2.45 A |
| | Open Circuit Voltage | 275V |
| | Drop Out Voltage | 550V |
| | Power Factor (b=)% | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 |
| | Fuse Rating | 1 |
| | UL Bench Top Rise | A or C |
| M138 | | 480 |
| | System Wattage (W) | 294 |
| | Nominal Current | 0.62 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.84 |
| | Max Input Current | 0.62 A |
| | Starting Current | 2.45 A |
| | Open Circuit Voltage | 275V |
| | Drop Out Voltage | 550V |
| | Power Factor (b=)% | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 |
| | Fuse Rating | 1 |
| | UL Bench Top Rise | A or C |

Safety and performance cUL Listed  UL Listed

67345 – GEP320MLTAA4-5/2

Pulse Start

1 – 320W PS M132 or 154 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M154, M132 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 21 Mfd GECAP-21/345V-O |
| Voltage (MIN) | 370 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | | | | |
|------------|--------------------------------|-----------|-----------|-----------|-----------|
| M154, M132 | | 120 | 208 | 240 | 277 |
| | System Wattage (W) | 370 | 370 | 370 | 370 |
| | Nominal Current | 3.10 A | 1.80 A | 1.55 A | 1.34 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.86 | 0.86 | 0.86 | 0.86 |
| | Max Input Current | 3.10 A | 1.80 A | 1.55 A | 1.34 A |
| | Starting Current | 3.20 A | 3.20 A | 3.20 A | 3.20 A |
| | Open Circuit Voltage | 270V | 270V | 270V | 270V |
| | Drop Out Voltage | 540V | 540V | 540V | 540V |
| | Power Factor (b=)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 | -20 / -30 | -20 / -30 | -20 / -30 |
| | Fuse Rating | 7 | 4 | 3 | 3 |
| | UL Bench Top Rise | A or B | A or C | A or C | A or C |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(E) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 1.79 |
| B | 3.50 |
| Weight | 9.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.2 in (83 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(A) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Slots (MS) Mount Width (X or F) | 0.25 in (6 mm) |
| A | 1.89 |
| B | 3.60 |
| Weight | 9.50 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

Pulse Start

HID Electronic and Electromagnetic For 175 – 1000W Pulse Start Metal Halide HID Lamps

78528 – GEP320TRIAC4-5

Pulse Start

1 – 320W PS M132 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M132 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 21 Mfd GECAP-21/345V-0 |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| M132 320W PS | 120 | 277 | 347 | |
| | System Wattage (W) | 375 | 375 | 375 |
| | Nominal Current | 3.2 A | 1.40 A | 1.10 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.86 | 0.86 | 0.86 |
| | Max Input Current | 3.52 A | 1.54 A | 1.21 A |
| | Starting Current | 3.40 A | 3.40 A | 3.40 A |
| | Open Circuit Voltage | 270V | 270V | 270V |
| | Drop Out Voltage | 78V | 180V | 226V |
| | Power Factor (≥)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 10 | 5 | 3 |
| | UL Bench Top Rise | A | A | A |

Safety and performance  UL Listed

67342 – GEP32048TAC4-5/2

Pulse Start

1 – 320W PS M132 or M154 480

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M154, M132 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 21 Mfd GECAP-21/345V-0 |
| Voltage (MIN) | 370 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | |
|---|--------------------------------|-----------|
| Lamp | Specifications by line voltage | |
| M154, M132 | 480 | |
| | System Wattage (W) | 374 |
| | Nominal Current | 0.78 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.85 |
| | Max Input Current | 0.78 A |
| | Starting Current | 3.30 A |
| | Open Circuit Voltage | 265V |
| | Drop Out Voltage | 530V |
| | Power Factor (≥)% | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 |
| | Fuse Rating | 2 |
| | UL Bench Top Rise | A or C |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|---|-------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Slots (MS) Mount Width (X or F) | |
| A | 1.77 in (45 mm) |
| B | 3.50 in (89 mm) |
| Weight | 11.02 lbs |
| Exit Type | Side |
| Nominal Length | 4.37 in (111 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 4.75 in (121 mm) |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(D) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Height (H) | |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.17 |
| B | 3.90 |
| Weight | 10.90 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

Pulse Start

HID Electronic and Electromagnetic For 175 – 1000W Pulse Start Metal Halide HID Lamps

67346 – GEP350MLTAA4-5/2

Pulse Start

1 – 350W PS M131 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M131 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 22 Mfd GECAP-22/345V-0 |
| Voltage (MIN) | 370 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | |
| M131 | 120 | 208 | 240 | 277 | |
| 350W Quartz | System Wattage (W) | 404 | 404 | 404 | 404 |
| Metal Halide | Nominal Current | 3.30 A | 1.90 A | 1.65 A | 1.45 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.86 | 0.86 | 0.86 | 0.86 |
| | Max Input Current | 3.30 A | 1.90 A | 1.65 A | 1.45 A |
| | Starting Current | 3.40 A | 3.40 A | 3.40 A | 3.40 A |
| | Open Circuit Voltage | 265V | 265V | 265V | 265V |
| | Drop Out Voltage | 530V | 530V | 530V | 530V |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (*F/°C) | -20 / -30 | -20 / -30 | -20 / -30 | -20 / -30 |
| | Fuse Rating | 7 | 4 | 3 | 3 |
| | UL Bench Top Rise | A or D | A or D | A or D | A or D |

Safety and performance cUL Listed  UL Listed

78529 – GEP350TRIAC4-5

Pulse Start

1 – 350W PS M131 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M131 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 22 Mfd |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| M131 | 120 | 277 | 347 | |
| 350W | System Wattage (W) | 410 | 410 | 410 |
| PS | Nominal Current | 3.40 A | 1.48 A | 1.18 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.84 | 0.84 | 0.84 |
| | Max Input Current | 3.74 A | 1.63 A | 1.30 A |
| | Starting Current | 3.60 A | 3.60 A | 3.60 A |
| | Open Circuit Voltage | 270V | 270V | 270V |
| | Drop Out Voltage | 78V | 180V | 226V |
| | Power Factor (≥)% | 90 | 90 | 90 |
| | Min. Starting Temp (*F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 10 | 6 | 3 |
| | UL Bench Top Rise | A | A | A |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(A) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 1.89 |
| B | 3.6 |
| Weight | 9.50 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|---|-------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 1.77 in (45 mm) |
| B | 3.50 in (89 mm) |
| Weight | 11.10 lbs |
| Exit Type | Side |
| Nominal Length | 4.37 in (111 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 4.75 in (121 mm) |

Pulse Start

HID Electronic and Electromagnetic For 175 – 1000W Pulse Start Metal Halide HID Lamps

67341 – GEP40048TAA4-5/2

Pulse Start

1 – 400W PS M135 or M155 480

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M155, M135 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 26 Mfd GECAP-26/400V-O |
| Voltage (MIN) | 370 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | |
|---|--------------------------------|-----------|
| Lamp | Specifications by line voltage | |
| M155, M135 400W Quartz Metal Halide | 480 | |
| | System Wattage (W) | 465 |
| | Nominal Current | 1.00 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.86 |
| | Max Input Current | 1.00 A |
| | Starting Current | 4.00 A |
| | Open Circuit Voltage | 265V |
| | Drop Out Voltage | 530V |
| | Power Factor (≥%) | 90 |
| | Min. Starting Temp (*F/°C) | -20 / -30 |
| | Fuse Rating | 2 |
| | UL Bench Top Rise | A or C |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(D) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.17 |
| B | 3.90 |
| Weight | 11.50 lbs |
| Exit Type | Side |
| Nominal Length | 4.6 in (119 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

67347 – GEP400MLTAA4-5/2

Pulse Start

1 – 400W PS M59 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M59 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd GECAP-24/400V-O |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | |
| M59 | 120 | 208 | 240 | 277 | |
| | System Wattage (W) | 457 | 457 | 457 | 457 |
| | Nominal Current | 4.00 A | 2.30 A | 2.00 A | 1.75 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.87 | 0.87 | 0.87 | 0.87 |
| | Max Input Current | 4.00 A | 2.30 A | 2.00 A | 1.75 A |
| | Starting Current | 3.80 A | 3.80 A | 3.80 A | 3.80 A |
| | Open Circuit Voltage | 300V | 300V | 300V | 300V |
| | Drop Out Voltage | 580V | 580V | 580V | 580V |
| | Power Factor (≥%) | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (*F/°C) | -20 / -30 | -20 / -30 | -20 / -30 | -20 / -30 |
| | Fuse Rating | 8 | 5 | 4 | 3 |
| | UL Bench Top Rise | A or D | A or D | A or D | A or D |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Qud ballast (120, 208, 240, 277)

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(C) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.17 |
| B | 3.90 |
| Weight | 10.80 lbs |
| Exit Type | Side |
| Nominal Length | 4.6 in (119 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

Pulse Start

HID Electronic and Electromagnetic For 175 – 1000W Pulse Start Metal Halide HID Lamps

78530 – GEP400TRIAC4-5

Pulse Start

1 – 400W PS M135 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M135 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 26 Mfd GECAP-26/525V-0 |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| M135 400W PS | 120 | 277 | 347 | |
| | System Wattage (W) | 465 | 465 | 465 |
| | Nominal Current | 4.10 A | 1.78 A | 1.40 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.86 | 0.86 | 0.86 |
| | Max Input Current | 4.51 A | 1.96 A | 1.54 A |
| | Starting Current | 4.10 A | 4.10 A | 4.10 A |
| | Open Circuit Voltage | 270V | 270V | 270V |
| | Drop Out Voltage | 78V | 180V | 226V |
| | Power Factor (≥)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 12 | 5 | 4 |
| | UL Bench Top Rise | A | A | A |

Safety and performance  UL Listed

67343 – GEP75048TAA5-5/2

Pulse Start

1 – 750W PS M149 480

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M149 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 28 Mfd GECAP-28/400V-0 |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH750-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | |
|---|--------------------------------|-----------|
| Lamp | Specifications by line voltage | |
| M149 750W Quartz Metal Halide | 480 | |
| | System Wattage (W) | 820 |
| | Nominal Current | 1.75 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.90 |
| | Max Input Current | 1.75 A |
| | Starting Current | 5.40 A |
| | Open Circuit Voltage | 330V |
| | Drop Out Voltage | 660V |
| | Power Factor (≥)% | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 |
| | Fuse Rating | 3 |
| | UL Bench Top Rise | A or C |

Safety and performance  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|---|-------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.05 in (52 mm) |
| B | 3.78 in (96 mm) |
| Weight | 12.69 lbs |
| Exit Type | Side |
| Nominal Length | 4.37 in (111 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 4.75 in (121 mm) |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(D) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 7.75 in (197 mm) |
| Width (W) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 3.0 |
| B | 5.10 |
| Weight | 19.60 lbs |
| Exit Type | Side |
| Nominal Length | 4.2 in (108 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |

Pulse Start

HID Electronic and Electromagnetic For 175 – 1000W Pulse Start Metal Halide HID Lamps

67350 – GEP750MLTAA5-5/2

Pulse Start

1 – 750W PS M149 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M149 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 28 Mfd GECAP-28/400V-O |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH750-1B |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | 120 | 208 | 240 | 277 |
| M149 750W Quartz Metal Halide | System Wattage (W) | 820 | 820 | 820 | 820 |
| | Nominal Current | 7.0 A | 4.0 A | 3.5 A | 3.0 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.90 | 0.90 | 0.90 | 0.90 |
| | Max Input Current | 7.0 A | 4.0 A | 3.5 A | 3.0 A |
| | Starting Current | 5.40 A | 5.40 A | 5.40 A | 5.40 A |
| | Open Circuit Voltage | 335V | 335V | 335V | 335V |
| | Drop Out Voltage | 670V | 670V | 670V | 670V |
| | Power Factor (≥1%) | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 | -20 / -30 | -20 / -30 | -20 / -30 |
| | Fuse Rating | 14 | 8 | 7 | 6 |
| | UL Bench Top Rise | A or D | A or D | A or D | A or D |

Safety and performance  UL Listed

78531 – GEP750TRIAC5-5

Pulse Start

1 – 750W PS M149 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M149 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 28 Mfd GECAP-28/400V-O |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH750-1B |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | 120 | 277 | 347 |
| M149 750W PS | System Wattage (W) | 840 | 840 | 840 |
| | Nominal Current | 7.3 A | 3.16 A | 2.50 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.91 | 0.91 | 0.91 |
| | Max Input Current | 8.0 A | 3.5 A | 2.80 A |
| | Starting Current | 5.50 A | 5.50 A | 5.50 A |
| | Open Circuit Voltage | 340V | 340V | 340V |
| | Drop Out Voltage | 84V | 194V | 243V |
| | Power Factor (≥1%) | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 22 | 11 | 10 |
| | UL Bench Top Rise | A | A | A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(A) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 7.75 in (197 mm) |
| Width (W) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 3.0 |
| B | 5.10 |
| Weight | 20.00 lbs |
| Exit Type | Side |
| Nominal Length | 4.2 in (108 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|----------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.80 in (71 mm) |
| B | 4.50 in (114 mm) |
| Weight | 20.83 lbs |
| Exit Type | Side |
| Nominal Length | 5.37 in (136 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 6 in (152 mm) |

Pulse Start

HID Electronic and Electromagnetic For 175 – 1000W Pulse Start Metal Halide HID Lamps

67348 – GEP1000MLTAA5-5/2

Pulse Start

1 – 1000W PS M141 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M141 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd GECAP-24/480V-0 |
| Voltage (MIN) | 480 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS100-4B |
| Sound Rating | D (37-42 decibels) |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|--|
| Lamp | Specifications by line voltage | | | | |
| M141 | 120 | 208 | 240 | 277 | |
| System Wattage (W) | 1075 | 1075 | 1075 | 1075 | |
| Nominal Current | 9.0 A | 5.2 A | 4.5 A | 3.9 A | |
| Ballast Factor | 1 | 1 | 1 | 1 | |
| Ballast Efficiency Factor | 0.91 | 0.91 | 0.91 | 0.91 | |
| Max Input Current | 9.0 A | 5.2 A | 4.5 A | 3.9 A | |
| Starting Current | 5.60 A | 5.60 A | 5.60 A | 5.60 A | |
| Open Circuit Voltage | 420V | 420V | 420V | 420V | |
| Drop Out Voltage | 840V | 840V | 840V | 840V | |
| Power Factor (≥)% | 90 | 90 | 90 | 90 | |
| Min. Starting Temp (°F/°C) | -20 / -30 | -20 / -30 | -20 / -30 | -20 / -30 | |
| Fuse Rating | 18 | 10 | 9 | 8 | |
| UL Bench Top Rise | A or D | A or D | A or D | A or D | |

Safety and performance cUL Listed  UL Listed

78532 – GEP1000TRIAC5-5

Pulse Start

1 – 1000W PS M141 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M141 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 25 Mfd |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS1000-4B |
| Sound Rating | D (37-42 decibels) |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|--|
| Lamp | Specifications by line voltage | | | |
| M141 | 120 | 277 | 347 | |
| System Wattage (W) | 1075 | 1075 | 1075 | |
| Nominal Current | 9.0 A | 3.9 A | 3.1 A | |
| Ballast Factor | 1 | 1 | 1 | |
| Ballast Efficiency Factor | 0.92 | 0.92 | 0.92 | |
| Max Input Current | 9.9 A | 4.3 A | 3.4 A | |
| Starting Current | 5.50 A | 5.50 A | 5.50 A | |
| Open Circuit Voltage | 390V | 390V | 390V | |
| Drop Out Voltage | | | | |
| Power Factor (≥)% | 90 | 90 | 90 | |
| Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 | |
| Fuse Rating | 30 | 12 | 10 | |
| UL Bench Top Rise | A | A | A | |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(A) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Width (W) | 7.75 in (197 mm) |
| Length (L) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | 6.1 in (155 mm) |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 3.05 |
| B | 5.20 |
| Weight | 20.30 lbs |
| Exit Type | Side |
| Nominal Length | 4.25 in (108 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |

| Dimensions | |
|--|------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Width (W) | 5.25 in (133 mm) |
| Length (L) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.80 in (71 mm) |
| B | 4.50 in (114 mm) |
| Weight | 21.0 lbs |
| Exit Type | Side |
| Nominal Length | 5.37 in (136 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 6.0 in (152 mm) |

Pulse Start

HID Electronic and Electromagnetic For 175 – 1000W Pulse Start Metal Halide HID Lamps

67349 – GEP1000ML5AA5-5/2

Pulse Start

1 – 1000W PS M141 5-Tap (120/208/240/277/480V)

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M141 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd GECAP-24/480V-0 |
| Voltage (MIN) | 540 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS1000-4B |
| Sound Rating | D (37-42 decibels) |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|--|
| Lamp | Specifications by line voltage | | | | | |
| M141 | 120 | 208 | 240 | 277 | 480 | |
| System Wattage (W) | 1050 | 1050 | 1050 | 1050 | 1050 | |
| Nominal Current | 9.00 A | 5.20 A | 4.50 A | 3.90 A | 2.25 A | |
| Ballast Factor | 1 | 1 | 1 | 1 | 1 | |
| Ballast Efficiency Factor | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | |
| Max Input Current | 9.00 A | 5.20 A | 4.50 A | 3.90 A | 2.25 A | |
| Starting Current | 5.60 A | 5.60 A | 5.60 A | 5.60 A | 5.60 A | |
| Open Circuit Voltage | 420V | 420V | 420V | 420V | 420V | |
| Drop Out Voltage | 840V | 840V | 840V | 840V | 840V | |
| Power Factor (≥%) | 90 | 90 | 90 | 90 | 90 | |
| Min. Starting Temp (°F/°C) | -20 / -30 | -20 / -30 | -20 / -30 | -20 / -30 | -20 / -30 | |
| Fuse Rating | 18 | 10 | 9 | 7 | 5 | |
| UL Bench Top Rise | A or C | A or C | A or C | A or C | A or C | |

Safety and performance  UL Listed

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(A) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Width (W) | 7.75 in (197 mm) |
| Length (L) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | 6.1 in (155 mm) |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 3.25 |
| B | 5.40 |
| Weight | 21.90 lbs |
| Exit Type | Side |
| Nominal Length | 4.25 in (108 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |

High Pressure Sodium

HID Electronic and Electromagnetic For 50 – 150W High Pressure Sodium HID Lamps

87152 – GES50MLTLC3D-5

High Pressure Sodium

1 – 50W HPS S68 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S68 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 180C |
| Type of Capacitor | Dry film |
| Capacitance | 5 Mfd GECAP-5/300V-D |
| Voltage (MIN) | 280 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS150-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|--|
| Lamp | Specifications by line voltage | | | | | |
| | 120 | 208 | 240 | 277 | | |
| S68 50W High Pressure Sodium | System Wattage (W) | 69 | 69 | 69 | 69 | |
| | Nominal Current | 0.70 A | 0.40 A | 0.30 A | 0.30 A | |
| | Ballast Factor | 1 | 1 | 1 | 1 | |
| | Ballast Efficiency Factor | 0.72 | 0.72 | 0.72 | 0.72 | |
| | Max Input Current | 0.93 A | 0.54 A | 0.46 A | 0.40 A | |
| | Starting Current | 0.74 A | 0.43 A | 0.37 A | 0.32 A | |
| | Open Circuit Voltage | 122V | 122V | 122V | 122V | |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | |
| | Power Factor (>=)% | 90 | 90 | 90 | 90 | |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | |
| | Fuse Rating | 5 | 3 | 3 | 2 | |
| | UL Bench Top Rise | B | B | B | B | |

Safety and performance cUL Listed  UL Listed

78533 – GES50TRILC3-5

High Pressure Sodium

1 – 50W HPS S68 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S68 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Dry film |
| Capacitance | 5 Mfd |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS150-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| | 120 | 277 | 347 | |
| S68 50W HPS | System Wattage (W) | 72 | 72 | 72 |
| | Nominal Current | 0.66 A | 0.29 A | 0.23 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.73 | 0.73 | 0.73 |
| | Max Input Current | 73 A | 32 A | 25 A |
| | Starting Current | 1.60 A | 1.60 A | 1.60 A |
| | Open Circuit Voltage | 120V | 120V | 120V |
| | Drop Out Voltage | 102V | 235V | 295V |
| | Power Factor (>=)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 2 | 1 | 1 |
| | UL Bench Top Rise | A | A | A |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|---|---------------------|
| Wiring diagram HID W-(H) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 1.0 |
| B | 3.0 |
| Weight | 3.40 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (70 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|---|------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 1.02 in (26 mm) |
| B | 2.48 in (63 mm) |
| Weight | 3.60 lbs |
| Exit Type | Side |
| Nominal Length | 3.54 in (90 mm) |
| Frame Size (H x L) | 2.82 in (72 mm) x 3.94 in (101 mm) |

High Pressure Sodium

HID Electronic and Electromagnetic For 50 – 150W High Pressure Sodium HID Lamps

86587 – GES70MLTLA3D-5

High Pressure Sodium

1 – 70W HPS S62 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S62 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 180C |
| Type of Capacitor | Dry film |
| Capacitance | 7 Mfd GECAP-7/300V-D |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS150-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | |
| S62 | 120 | 208 | 240 | 277 | |
| 70W High Pressure Sodium | System Wattage (W) | 91 | 91 | 91 | 91 |
| | Nominal Current | 0.80 A | 0.50 A | 0.40 A | 0.40 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.77 | 0.77 | 0.77 | 0.77 |
| | Max Input Current | 1.34 A | 0.78 A | 0.67 A | 0.59 A |
| | Starting Current | 0.78 A | 0.46 A | 0.39 A | 0.35 A |
| | Open Circuit Voltage | 118V | 118V | 118V | 118V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V |
| | Power Factor (>=)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 5 | 3 | 3 | 2 |
| | UL Bench Top Rise | B | B | B | B |

Safety and performance  UL Listed

78534 – GES70TRILC3-5

High Pressure Sodium

1 – 70W HPS S62 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S62 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Dry film |
| Capacitance | 7 Mfd GECAP-7/300V-D |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS150-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| S62 | 120 | 277 | 347 | |
| 70W HPS | System Wattage (W) | 96 | 96 | 96 |
| | Nominal Current | 0.88 A | 0.38 A | 0.30 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.745 | 0.745 | 0.745 |
| | Max Input Current | .97 A | .42 A | .033 A |
| | Starting Current | 2.10 A | 2.10 A | 2.10 A |
| | Open Circuit Voltage | 120V | 120V | 120V |
| | Drop Out Voltage | 102V | 235V | 295V |
| | Power Factor (>=)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 3 | 1.5 | 1 |
| | UL Bench Top Rise | A | A | A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(H) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.0 |
| B | 3.0 |
| Weight | 5.50 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (70 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 1.50 in (38 mm) |
| B | 2.95 in (75 mm) |
| Weight | 4.85 lbs |
| Exit Type | Side |
| Nominal Length | 3.54 in (90 mm) |
| Frame Size (H x L) | 2.82 in (72 mm) x 3.94 in (101 mm) |

High Pressure Sodium

HID Electronic and Electromagnetic For 50 – 150W High Pressure Sodium HID Lamps

67340 – GES7048TLA3D-5/2

High Pressure Sodium

1 – 70W HPS S62 480V

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S62 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Dry film |
| Capacitance | 7 Mfd GECAP-7/300V-D |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS150-3A 86635 |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|------------------------------------|--------------------------------|-----------|
| S62 70W High Pressure Sodium | 480 | |
| | System Wattage (W) | 93 |
| | Nominal Current | 0.22 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.74 |
| | Max Input Current | 0.22 A |
| | Starting Current | 1.85 A |
| | Open Circuit Voltage | 120V |
| | Drop Out Voltage | 170V |
| | Power Factor (>=)% | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 |
| | Fuse Rating | 1 |
| | UL Bench Top Rise | A |

Safety and performance cUL Listed  UL Listed

87074 – GES100MLTLC3D-5

High Pressure Sodium

1 – 100W HPS S54 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S54 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 180C |
| Type of Capacitor | Dry film |
| Capacitance | 10 Mfd GECAP-10/400V-O |
| Voltage (MIN) | 280 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS150-3A 86635 |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | | | | |
|-------------------------------------|--------------------------------|-----------|-----------|-----------|-----------|
| S54 100W High Pressure Sodium | 120 | 208 | 240 | 277 | |
| | System Wattage (W) | 123 | 123 | 123 | |
| | Nominal Current | 2.20 A | 1.30 A | 1.10 A | 0.90 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 1.22 | 1.22 | 1.22 | 1.22 |
| | Max Input Current | 2.18 A | 1.27 A | 1.13 A | 0.94 A |
| | Starting Current | 0.74 A | 0.43 A | 0.36 A | 0.31 A |
| | Open Circuit Voltage | 119V | 119V | 119V | 119V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V |
| | Power Factor (>=)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 8 | 5 | 5 | 3 |
| | UL Bench Top Rise | B | B | B | B |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(F) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 1.9 |
| B | 3.0 |
| Weight | 6.00 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (70 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(H) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.0 |
| B | 4.0 |
| Weight | 6.20 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (70 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

High Pressure Sodium

HID Electronic and Electromagnetic For 50 – 150W High Pressure Sodium HID Lamps

78535 – GES100TRILC3-5

High Pressure Sodium

1 – 100W HPS S54 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S54 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Dry film |
| Capacitance | 10 Mfd GECAP-10/400V-O |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS150-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | | | |
|------|--------------------------------|-----------|-----------|-----------|
| | 120 | 277 | 347 | |
| S54 | | | | |
| 100W | | | | |
| HPS | | | | |
| | System Wattage (W) | 129 | 129 | 129 |
| | Nominal Current | 1.16 A | 0.50 A | 0.40 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.78 | 0.78 | 0.78 |
| | Max Input Current | 1.16 A | .55 A | .44 A |
| | Starting Current | 2.80 A | 2.80 A | 2.80 A |
| | Open Circuit Voltage | 120V | 120V | 120V |
| | Drop Out Voltage | 102V | 235V | 295V |
| | Power Factor (>=)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 3 | 2 | 1.5 |
| | UL Bench Top Rise | A | A | A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.00 in (38 mm) |
| B | 3.47 in (75 mm) |
| Weight | 6.38 lbs |
| Exit Type | Side |
| Nominal Length | 3.54 in (90 mm) |
| Frame Size (H x L) | 2.82 in (72 mm) x 3.94 in (101 mm) |

67338 – GES10048TLA3D-5/2

High Pressure Sodium

1 – 100W HPS S54 480V

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S54 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Dry film |
| Capacitance | 10 Mfd GECAP-10/400V-O |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS150-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|---------------------------|--------------------------------|-----------|
| | 480 | |
| S54 | | |
| 100W High Pressure Sodium | | |
| | System Wattage (W) | 125 |
| | Nominal Current | 0.29 A |
| | Ballast Factor | 1 |
| 150W High Pressure Sodium | | |
| | Ballast Efficiency Factor | 0.79 |
| | Max Input Current | 0.29 A |
| | Starting Current | 2.85 A |
| | Open Circuit Voltage | 120V |
| | Drop Out Voltage | 170V |
| | Power Factor (>=)% | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 |
| | Fuse Rating | 1 |
| | UL Bench Top Rise | A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(F) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.0 |
| B | 3.10 |
| Weight | 6.20 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

High Pressure Sodium

HID Electronic and Electromagnetic For 50 – 150W High Pressure Sodium HID Lamps

87094 – GES150MLTLC3D-5

High Pressure Sodium

1 – 150W HPS S55 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S55 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 180C |
| Type of Capacitor | Dry film |
| Capacitance | 14 Mfd GECAP-14/280V-D |
| Voltage (MIN) | 280 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS150-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|--|
| Lamp | Specifications by line voltage | | | | | |
| | 120 | 208 | 240 | 277 | | |
| S55 150W High Pressure Sodium | System Wattage (W) | 175 | 175 | 175 | 175 | |
| | Nominal Current | 1.60 A | 0.90 A | 0.80 A | 0.70 A | |
| 250W Quartz Metal Halide | Ballast Factor | 1 | 1 | 1 | 1 | |
| | Ballast Efficiency Factor | 1.43 | 1.43 | 1.43 | 1.43 | |
| | Max Input Current | 2.72 A | 1.53 A | 1.34 A | 1.16 A | |
| | Starting Current | 1.64 A | 0.88 A | 0.76 A | 0.65 A | |
| | Open Circuit Voltage | 115V | 115V | 115V | 115V | |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | |
| | Power Factor (s=)% | 90 | 90 | 90 | 90 | |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | |
| | Fuse Rating | 10 | 5 | 5 | 5 | |
| | UL Bench Top Rise | B | B | B | B | |

Safety and performance cUL Listed  UL Listed

78536 – GES150TRILC3-5

High Pressure Sodium

1 – 150W HPS S55 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S55 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Dry film |
| Capacitance | 14 Mfd GECAP-14/280V-D |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS150-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|--|
| Lamp | Specifications by line voltage | | | | |
| | 120 | 277 | 347 | | |
| S55 150W HPS | System Wattage (W) | 190 | 190 | 190 | |
| | Nominal Current | 1.66 A | 0.72 A | 0.58 A | |
| | Ballast Factor | 1 | 1 | 1 | |
| | Ballast Efficiency Factor | 0.79 | 0.79 | 0.79 | |
| | Max Input Current | 1.83 A | 80 A | .64 A | |
| | Starting Current | 4.10 A | 4.10 A | 4.10 A | |
| | Open Circuit Voltage | 120V | 120V | 120V | |
| | Drop Out Voltage | 102V | 235V | 295V | |
| | Power Factor (s=)% | 90 | 90 | 90 | |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 | |
| | Fuse Rating | 5 | 3 | 2 | |
| | UL Bench Top Rise | A | A | A | |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(H) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 3.0 |
| B | 4.0 |
| Weight | 7.60 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.48 in (63 mm) |
| B | 4.94 in (126 mm) |
| Weight | 7.83 lbs |
| Exit Type | Side |
| Nominal Length | 3.54 in (90 mm) |
| Frame Size (H x L) | 2.82 in (72 mm) x 3.94 in (101 mm) |

High Pressure Sodium

HID Electronic and Electromagnetic For 50 – 150W High Pressure Sodium HID Lamps

67339 – GES15048TLA3D-5/2

High Pressure Sodium

1 – 150W HPS S55 480V

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S55 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Dry film |
| Capacitance | 14 Mfd GE CAP-14/280V-D |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS150-3A 86635 |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|---------------------------|--------------------------------|-----------|
| S55 | | 480 |
| | System Wattage (W) | 190 |
| 150W High Pressure Sodium | Nominal Current | 0.42 A |
| | Ballast Factor | 1 |
| 250W Quartz Metal Halide | Ballast Efficiency Factor | 0.78 |
| | Max Input Current | 0.42 A |
| | Starting Current | 4.10 A |
| | Open Circuit Voltage | 120V |
| | Drop Out Voltage | 170V |
| | Power Factor (>=)% | 90 |
| | Min. Starting Temp (*F/*C) | -20 / -30 |
| | Fuse Rating | 2 |
| | UL Bench Top Rise | A or D |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|---|---------------------|
| Wiring diagram HID W-(F) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.65 |
| B | 4.0 |
| Weight | 8.00 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

High Pressure Sodium HID Electronic and Electromagnetic For 250 – 1000W High Pressure Sodium HID Lamps

87214 – GES250ML5AA4-5

High Pressure Sodium

1 – 250W HPS S50 5-Tap (120/208/240/277/480V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S50 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 35 Mfd GE CAP-35/240V-O |
| Voltage (MIN) | 240 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS400-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | | |
| | 120 | 208 | 240 | 277 | 480 | |
| S50 250W High Pressure Sodium | System Wattage (W) | 292 | 292 | 292 | 292 | 292 |
| | Nominal Current | 2.50 A | 1.50 A | 1.30 A | 1.10 A | 0.60 A |
| | Ballast Factor | 1 | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 |
| | Max Input Current | 2.50 A | 1.50 A | 1.30 A | 1.10 A | 0.60 A |
| | Starting Current | 1.59 A | 0.93 A | 0.81 A | 0.70 A | 0.40 A |
| | Open Circuit Voltage | 186V | 186V | 186V | 186V | 186V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | 384V |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 8 | 5 | 4 | 4 | 4 |
| | UL Bench Top Rise | C | C | B | B | B |

Safety and performance  UL Listed

87121 – GES250MLTAC4-5

High Pressure Sodium

1 – 250W HPS S50 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S50 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 35 Mfd GE CAP-35/240V-O |
| Voltage (MIN) | 240 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS400-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|--|
| Lamp | Specifications by line voltage | | | | | |
| | 120 | 208 | 240 | 277 | | |
| S50 250W High Pressure Sodium | System Wattage (W) | 303 | 303 | 303 | 303 | |
| | Nominal Current | 2.60 A | 1.50 A | 1.30 A | 1.10 A | |
| | Ballast Factor | 1 | 1 | 1 | 1 | |
| | Ballast Efficiency Factor | 0.83 | 0.83 | 0.83 | 0.83 | |
| | Max Input Current | 2.60 A | 1.50 A | 1.30 A | 1.10 A | |
| | Starting Current | 1.50 A | 0.86 A | 0.75 A | 0.63 A | |
| | Open Circuit Voltage | 186V | 186V | 186V | 186V | |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 | |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | |
| | Fuse Rating | 8 | 5 | 4 | 4 | |
| | UL Bench Top Rise | A | A | A | A | |

Safety and performance  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(B) – see example on page 18-68 | |
| Case dimensions – Ref-Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.0 |
| B | 4.0 |
| Weight | 12.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |
| Lead lengths | |
| Orange | |
| Violet and Black | |
| Violet/White | |
| Black/Yellow | |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(A) – see example on page 18-68 | |
| Case dimensions – Ref-Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.0 |
| B | 4.0 |
| Weight | 11.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

Ballasts

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

High Pressure Sodium HID Electronic and Electromagnetic For 250 – 1000W High Pressure Sodium HID Lamps

78537 – GES250TRIAC4-5

High Pressure Sodium

1 – 250W HPS S50 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S50 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 33 Mfd |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS400-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | | | |
|------|--------------------------------|-----------|-----------|-----------|
| | 120 | 277 | 347 | |
| S50 | | | | |
| 250W | | | | |
| HPS | | | | |
| | System Wattage (W) | 295 | 295 | 295 |
| | Nominal Current | 2.55 A | 1.10 A | 0.88 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.84 | 0.84 | 0.84 |
| | Max Input Current | 2.80 A | 1.21 A | .97 A |
| | Starting Current | 4.0 A | 4.0 A | 4.0 A |
| | Open Circuit Voltage | 120V | 120V | 120V |
| | Drop Out Voltage | 84V | 194V | 243V |
| | Power Factor (>=)% | 90 | 90 | 90 |
| | Min. Starting Temp (*F/*C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 8 | 3 | 3 |
| | UL Bench Top Rise | A | A | B |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|-------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 1.62 in (41 mm) |
| B | 3.50 in (89 mm) |
| Weight | 10.16 lbs |
| Exit Type | Side |
| Nominal Length | 4.37 in (111 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 4.75 in (121 mm) |

63066 – GES400ML5AA4-5 (replaces 87215)

High Pressure Sodium

1 – 400W HPS S51 5-Tap (120/208/240/277/480V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S51 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 55 Mfd GECAP-55/240V-O |
| Voltage (MIN) | 240 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS400-3A 86641 |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | | | | |
|-----------------|--------------------------------|-----------|-----------|-----------|-----------|
| | 120 | 208 | 240 | 277 | 480 |
| S51 | | | | | |
| 400W High | | | | | |
| Pressure Sodium | | | | | |
| | System Wattage (W) | 472 | 472 | 472 | 472 |
| | Nominal Current | 4.00 A | 2.20 A | 2.00 A | 1.70 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.85 | 0.85 | 0.85 | 0.85 |
| | Max Input Current | 4.00 A | 2.20 A | 2.00 A | 1.70 A |
| | Starting Current | 2.87 A | 1.66 A | 1.44 A | 1.25 A |
| | Open Circuit Voltage | 191V | 191V | 191V | 191V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V |
| | Power Factor (>=)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (*F/*C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 15 | 8 | 8 | 5 |
| | UL Bench Top Rise | C | C | C | C |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(B) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.0 |
| B | 4.0 |
| Weight | 15.00 lbs |
| Exit Type | Side |
| Nominal Length | 4.2 in (108 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |
| Lead lengths | |
| Orange | |
| Violet and Black | |
| Violet/White | |
| Black/Yellow | |

High Pressure Sodium HID Electronic and Electromagnetic For 250 – 1000W High Pressure Sodium HID Lamps

87164 – GES400MLTAC4-5

High Pressure Sodium

1 – 400W HPS S51 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S51 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 55 Mfd GECAP-55/240V-O |
| Voltage (MIN) | 240 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS400-3A 86641 |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | |
| | 120 | 208 | 240 | 277 | |
| S51 400W High Pressure Sodium | System Wattage (W) | 443 | 443 | 443 | 443 |
| | Nominal Current | 3.80 A | 2.20 A | 1.90 A | 1.60 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.90 | 0.90 | 0.90 | 0.90 |
| | Max Input Current | 3.80 A | 2.20 A | 1.90 A | 1.60 A |
| | Starting Current | 1.78 A | 1.03 A | 0.90 A | 0.77 A |
| | Open Circuit Voltage | 186V | 186V | 186V | 186V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 15 | 8 | 8 | 5 |
| | UL Bench Top Rise | D | D | D | D |

Safety and performance cUL Listed  UL Listed

78539 – GES400TRIAC4-5

High Pressure Sodium

1 – 400W HPS S51 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S51 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 55 Mfd GECAP-55/240V-O |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS400-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| | 120 | 277 | 347 | |
| S51 400W HPS | System Wattage (W) | 465 | 465 | 465 |
| | Nominal Current | 4.0 A | 1.75 A | 1.40 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.85 | 0.85 | 0.85 |
| | Max Input Current | 4.4 A | 1.93 A | 1.54 A |
| | Starting Current | 6.50 A | 6.50 A | 6.50 A |
| | Open Circuit Voltage | 186V | 186V | 186V |
| | Drop Out Voltage | 84V | 194V | 243V |
| | Power Factor (≥)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 12 | 6 | 4 |
| | UL Bench Top Rise | D | D | D |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(A) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.0 |
| B | 4.0 |
| Weight | 13.60 lbs |
| Exit Type | Side |
| Nominal Length | 4.2 in (108 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|---|-------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.33 in (59 mm) |
| B | 4.21 in (107 mm) |
| Weight | 13.91 lbs |
| Exit Type | Side |
| Nominal Length | 4.37 in (111 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 4.75 in (121 mm) |

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

High Pressure Sodium

HID Electronic and Electromagnetic For 250 – 1000W High Pressure Sodium HID Lamps

87198 – GES40048TAC4-5

High Pressure Sodium

1 – 400W HPS S51 480V in smaller frame

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S51 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 55 Mfd GE CAP-55/240V-O |
| Voltage (MIN) | 240 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS400-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|-------------------------------------|--------------------------------|-----------|
| S51 400W High Pressure Sodium | 480 | |
| | System Wattage (W) | 475 |
| | Nominal Current | 1.00 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.84 |
| | Max Input Current | 1.00 A |
| | Starting Current | 0.60 A |
| | Open Circuit Voltage | 195V |
| | Drop Out Voltage | 384V |
| | Power Factor (>=)% | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 |
| | Fuse Rating | 5 |
| | UL Bench Top Rise | D |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(D) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.3 |
| B | 4.1 |
| Weight | 15.00 lbs |
| Exit Type | Side |
| Nominal Length | 4.2 in (108 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

67351 – GES100048TAA5-5/2

High Pressure Sodium

1 – 1000W HPS S52 480V

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S52 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 26 Mfd GE CAP-26/525V-O |
| Voltage (MIN) | 540 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS 1000-48 |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|--------------------------------------|--------------------------------|-----------|
| S52 1000W High Pressure Sodium | 480 | |
| | System Wattage (W) | 1,110 |
| | Nominal Current | 2.38 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.90 |
| | Max Input Current | 2.38 A |
| | Starting Current | 6.80 A |
| | Open Circuit Voltage | 440V |
| | Drop Out Voltage | 870V |
| | Power Factor (>=)% | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 |
| | Fuse Rating | 5 |
| | UL Bench Top Rise | A or D |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(D) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 7.75 in (197 mm) |
| Width (W) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 4.5 |
| B | 6.6 |
| Weight | 28.60 lbs |
| Exit Type | Side |
| Nominal Length | 4.7 in (121 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |

High Pressure Sodium

HID Electronic and Electromagnetic For 250 – 1000W High Pressure Sodium HID Lamps

87218 – GES1000ML5AA5-5

High Pressure Sodium

1 – 1000W HPS S52 5-Tap (120/208/240/277/480V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S52 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 26 Mfd GE CAP-26/525V-0 |
| Voltage (MIN) | 525 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS1000-4B |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | | |
| | 120 | 208 | 240 | 277 | 480 | |
| S52 1000W High Pressure Sodium | System Wattage (W) | 1,102 | 1,102 | 1,102 | 1,102 | 1,102 |
| | Nominal Current | 9.50 A | 5.50 A | 4.70 A | 4.10 A | 2.40 A |
| | Ballast Factor | 1 | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| | Max Input Current | 9.50 A | 5.50 A | 4.70 A | 4.10 A | 2.40 A |
| | Starting Current | 5.75 A | 3.40 A | 2.90 A | 2.60 A | 1.80 A |
| | Open Circuit Voltage | 435V | 435V | 435V | 435V | 435V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | 384V |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 20 | 15 | 10 | 10 | 8 |
| | UL Bench Top Rise | D | D | D | D | D |

Safety and performance cUL Listed  UL Listed

67352 – GES1000MLTAA5-5/2

High Pressure Sodium

1 – 1000W HPS S52 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S52 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 26 Mfd GE CAP-26/525V-0 |
| Voltage (MIN) | 540 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS1000-4B |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|--|
| Lamp | Specifications by line voltage | | | | | |
| | 120 | 208 | 240 | 277 | | |
| S52 1000W High Pressure Sodium | System Wattage (W) | 1,110 | 1,110 | 1,110 | 1,110 | |
| | Nominal Current | 9.50 A | 5.50 A | 4.75 A | 4.10A | |
| | Ballast Factor | 1 | 1 | 1 | 1 | |
| | Ballast Efficiency Factor | 0.90 | 0.90 | 0.90 | 0.90 | |
| | Max Input Current | 9.50 A | 5.50 A | 4.75 A | 4.10A | |
| | Starting Current | 6.80 A | 6.80 A | 6.80 A | 6.80 A | |
| | Open Circuit Voltage | 440V | 440V | 440V | 440V | |
| | Drop Out Voltage | 870V | 870V | 870V | 870V | |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 | |
| | Min. Starting Temp (°F/°C) | -20 / -30 | -20 / -30 | -20 / -30 | -20 / -30 | |
| | Fuse Rating | 20 | 10 | 9 | 8 | |
| | UL Bench Top Rise | A or D | A or D | A or D | A or D | |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(B) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 7.75 in (197 mm) |
| Width (W) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 4.0 |
| B | 6.0 |
| Weight | 28.00 lbs |
| Exit Type | Side |
| Nominal Length | 4.7 in (121 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |
| Lead lengths | |
| Orange | |
| Violet and Black | |
| Violet/White | |
| Black/Yellow | |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(A) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 7.75 in (197 mm) |
| Width (W) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 4.5 |
| B | 6.6 |
| Weight | 28.60 lbs |
| Exit Type | Side |
| Nominal Length | 4.7 in (121 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |

High Pressure Sodium

HID Electronic and Electromagnetic For 250 – 1000W High Pressure Sodium HID Lamps

78540 – GES1000TRIAC5-5

High Pressure Sodium

1 – 1000W HPS S52 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S52 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 26 Mfd GECAP-26/525V-0 |
| Voltage (MIN) | 540 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS1000-4B |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | | | |
|-------|--------------------------------|-----------|-----------|-----------|
| | 120 | 277 | 347 | |
| S52 | | | | |
| 1000W | | | | |
| HPS | | | | |
| | System Wattage (W) | 1100 | 1100 | 1100 |
| | Nominal Current | 9.50 A | 4.10 A | 3.30 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.9 | 0.9 | 0.9 |
| | Max Input Current | 10.4 A | 4.5 A | 3.6 A |
| | Starting Current | 7.0 A | 7.0 A | 7.0 A |
| | Open Circuit Voltage | 425V | 425V | 425V |
| | Drop Out Voltage | 84V | 194V | 243V |
| | Power Factor (≥)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 30 | 12 | 10 |
| | UL Bench Top Rise | A | A | A |

Safety and performance cUL Listed  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 3.74 in (95 mm) |
| B | 5.71 in (145 mm) |
| Weight | 27.42 lbs |
| Exit Type | Side |
| Nominal Length | 5.37 in (137 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 6.0 in (152 mm) |

High Intensity Discharge Lamp and Ballast Kits

HID Electronic and Electromagnetic Ballasts

71701 – GEM175ML5AC3-55

High Intensity Discharge Lamp and Ballast Kits

1 – 175W MH M57 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M57, H38, M109 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 10 Mfd |
| Voltage (MIN) | 400 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | | |
| M57, M109 | 120 | 208 | 240 | 277 | 480 | |
| System Wattage (W) | 202 | 202 | 202 | 202 | 202 | 202 |
| Nominal Current | 1.70 A | 1.00 A | 0.90 A | 0.80 A | 0.40 A | 0.40 A |
| Ballast Factor | 1 | 1 | 1 | 1 | 1 | 1 |
| Ballast Efficiency Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Max Input Current | 1.70 A | 1.00 A | 0.90 A | 0.80 A | 0.40 A | 0.40 A |
| Starting Current | 0.60 A | 0.37 A | 0.32 A | 0.28 A | 0.21 A | 0.21 A |
| Open Circuit Voltage | 307V | 307V | 307V | 307V | 307V | 307V |
| Drop Out Voltage | 96V | 166V | 192V | 222V | 384V | 384V |
| Power Factor (≥)% | 90 | 90 | 90 | 90 | 90 | 90 |
| Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| Fuse Rating | 5 | 3 | 3 | 2 | 1.5 | 1.5 |
| UL Bench Top Rise | D | C | C | C | C | C |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|---|---------------------|
| Wiring diagram HID W-(K) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.3 in (133 mm) |
| Width (W) | 1.3 in (33 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.3 in (8 mm) |
| A | 3.0 |
| B | 4.0 |
| Weight | 8.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.2 in (83 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |
| Lead Lengths | |
| Orange and Red | |
| Violet and Black | |
| Black/Yellow | |
| Violet/White | |
| Yellow | |

71702 – GEM250ML5AC3-55

High Intensity Discharge Lamp and Ballast Kits

1 – 250W MH M58 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M58, H37 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 15 Mfd |
| Voltage (MIN) | 400 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | | |
| M58 | 120 | 208 | 240 | 277 | 480 | |
| 250W Quartz | 280 | 280 | 280 | 280 | 280 | 280 |
| Metal Halide | 2.50 A | 1.40 A | 1.25 A | 1.10 A | 0.65 A | 0.65 A |
| Ballast Factor | 1 | 1 | 1 | 1 | 1 | 1 |
| Ballast Efficiency Factor | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Max Input Current | 2.60 A | 1.60 A | 1.30 A | 1.20 A | 0.70 A | 0.70 A |
| Starting Current | 1.50 A | 1.00 A | 0.80 A | 0.70 A | 0.50 A | 0.50 A |
| Open Circuit Voltage | 290V | 290V | 290V | 290V | 290V | 290V |
| Drop Out Voltage | 96V | 166V | 192V | 222V | 384V | 384V |
| Power Factor (≥)% | 90 | 90 | 90 | 90 | 90 | 90 |
| Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| Fuse Rating | 8 | 5 | 4 | 3 | 2 | 2 |
| UL Bench Top Rise | B | B | B | C | C | C |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|---|---------------------|
| Wiring diagram HID W-(H) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.3 in (133 mm) |
| Width (W) | 1.3 in (33 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.3 in (8 mm) |
| A | 3.0 |
| B | 4.3 |
| Weight | 9.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.2 in (83 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |
| Lead Lengths | |
| Orange and Red | |
| Violet and Black | |
| Black/Yellow | |
| Violet/White | |
| Yellow | |

High Intensity Discharge Lamp and Ballast Kits

HID Electronic and Electromagnetic Ballasts

71703 – GEM400ML5AC4-55

High Intensity Discharge Lamp and Ballast Kits

1 – 400W MH M59 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M59, H33 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd |
| Voltage (MIN) | 400 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | | |
| M59 | 120 | 208 | 240 | 277 | 480 | |
| 360W Quartz Metal Halide | System Wattage (W) | 436 | 436 | 436 | 436 | 436 |
| | Nominal Current | 3.70 A | 2.10 A | 1.90 A | 1.60 A | 0.90 A |
| 400W Quartz Metal Halide | Ballast Factor | | | | | |
| | Ballast Efficiency Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| | Max Input Current | 3.70 A | 2.10 A | 1.90 A | 1.60 A | 0.90 A |
| 400W Mercury | Starting Current | 2.19 A | 1.31 A | 1.11 A | 1.00 A | 0.60 A |
| | Open Circuit Voltage | 300V | 300V | 300V | 300V | 300V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | 384V |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 10 | 8 | 5 | 5 | 5 |
| | UL Bench Top Rise | E | E | E | E | E |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(K) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.3 in (133 mm) |
| Width (W) | 1.3 in (33 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.3 in (8 mm) |
| A | 2.0 |
| B | 4.0 |
| Weight | 12.50 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |
| Lead Lengths | |
| Orange and Red | |
| Violet and Black | |
| Black/Yellow | |
| Violet/White | |
| Yellow | |

71704 – GEM1000ML5AC4-55

High Intensity Discharge Lamp and Ballast Kits

1 – 1000W MH M47 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M47, H36 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd |
| Voltage (MIN) | 400 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|--------|
| Lamp | Specifications by line voltage | | | | | |
| M47 | 120 | 208 | 240 | 277 | 480 | |
| 1000W Quartz Metal Halide | System Wattage (W) | 1103 | 1103 | 1103 | 1103 | 1103 |
| | Nominal Current | 9.30 A | 5.40 A | 4.70 A | 4.10 A | 2.40 A |
| 1000W Mercury | Ballast Factor | 1 | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| | Max Input Current | 9.30 A | 5.40 A | 4.70 A | 4.10 A | 2.40 A |
| | Starting Current | 6.34 A | 3.71 A | 3.20 A | 2.79 A | 1.65 A |
| | Open Circuit Voltage | 445V | 445V | 445V | 445V | 445V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | 384V |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 | 90 |
| Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | |
| Fuse Rating | 20 | 15 | 10 | 10 | 10 | |
| UL Bench Top Rise | E | C | C | C | D | |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(K) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 7.8 in (197 mm) |
| Width (W) | 2.8 in (70 mm) |
| Height (H) | |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.3 in (8 mm) |
| A | 3.0 |
| B | 5.0 |
| Weight | 21.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |
| Lead Lengths | |
| Orange and Red | |
| Violet and Black | |
| Black/Yellow | |
| Violet/White | |
| Yellow | |

High Intensity Discharge Lamp and Ballast Kits

HID Electronic and Electromagnetic Ballasts

71705 – GES100MLTLC3D-55

High Intensity Discharge Lamp and Ballast Kits

1 – 100W HPS S54 Quad (120/208/240/277V) Lamp & Ballast Kit (-55)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S54 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 180C |
| Type of Capacitor | Dry Film |
| Capacitance | 10 Mfd |
| Voltage (MIN) | 280 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS100-3A 86884 |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | |
| | 120 | 208 | 240 | 277 | |
| S54 100W High Pressure Sodium | System Wattage (W) | 123 | 123 | 123 | 123 |
| | Nominal Current | 2.20 A | 1.30 A | 1.10 A | 0.90 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| 150W High Pressure Sodium | Ballast Efficiency Factor | 1.22 | 1.22 | 1.22 | 1.22 |
| | Max Input Current | 2.18 A | 1.27 A | 1.13 A | 0.94 A |
| | Starting Current | 0.74 A | 0.43 A | 0.36 A | 0.31 A |
| | Open Circuit Voltage | 119V | 119V | 119V | 119V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V |
| | Power Factor (s=)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 8 | 5 | 5 | 3 |
| UL Bench Top Rise | B | B | B | B | |

Safety and performance cUL Listed  UL Listed

71706 – GES250ML5AC4-55

High Intensity Discharge Lamp and Ballast Kits

1 – 250W HPS S50 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S50 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil Filled |
| Capacitance | 35 Mfd |
| Voltage (MIN) | 240 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS400-3A 86641 |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | | |
| | 120 | 208 | 240 | 277 | 480 | |
| S50 250W High Pressure Sodium | System Wattage (W) | 292 | 292 | 292 | 292 | 292 |
| | Nominal Current | 2.50 A | 1.50 A | 1.30 A | 1.10 A | 0.60 A |
| | Ballast Factor | 1 | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 |
| | Max Input Current | 2.50 A | 1.50 A | 1.30 A | 1.10 A | 0.60 A |
| | Starting Current | 1.59 A | 0.93 A | 0.81 A | 0.70 A | 0.40 A |
| | Open Circuit Voltage | 186V | 186V | 186V | 186V | 186V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | 384V |
| | Power Factor (s=)% | 90 | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 8 | 5 | 4 | 4 | 4 |
| | UL Bench Top Rise | C | C | B | B | B |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(K) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 5.3 in (133 mm) |
| Width (W) | 1.3 in (33 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.3 in (8 mm) |
| A | 2.0 |
| B | 4.0 |
| Weight | 6.20 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(B) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.3 in (133 mm) |
| Width (W) | 1.3 in (33 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.3 in (8 mm) |
| A | 2.0 |
| B | 4.0 |
| Weight | 12.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |
| Lead Lengths | |
| Orange and Red | |
| Violet and Black | |
| Black/Yellow | |
| Violet/White | |
| Yellow | |

High Intensity Discharge Lamp and Ballast Kits

HID Electronic and Electromagnetic Ballasts

71707 – GES400ML5AC4-55

High Intensity Discharge Lamp and Ballast Kits

1 – 400W HPS S51 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S51 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil Filled |
| Capacitance | 55 Mfd |
| Voltage (MIN) | 240 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS1000-4B |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | 120 | 208 | 240 | 277 | 480 |
| S51 400W High Pressure Sodium | System Wattage (W) | 472 | 472 | 472 | 472 | 472 |
| | Nominal Current | 4.00 A | 2.20 A | 2.00 A | 1.70 A | 1.00 A |
| | Ballast Factor | 1 | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| | Max Input Current | 4.00 A | 2.20 A | 2.00 A | 1.70 A | 1.00 A |
| | Starting Current | 2.87 A | 1.66 A | 1.44 A | 1.25 A | 0.72 A |
| | Open Circuit Voltage | 191V | 191V | 191V | 191V | 191V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | 384V |
| | Power Factor (≥90%) | 90 | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 15 | 8 | 8 | 5 | 5 |
| | UL Bench Top Rise | C | C | C | C | C |

Safety and performance cUL Listed  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(B) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.3 in (133 mm) |
| Width (W) | 1.3 in (33 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.3 in (8 mm) |
| A | 2.0 |
| B | 4.0 |
| Weight | 15.00 lbs |
| Exit Type | Side |
| Nominal Length | 4.2 in (108 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |
| Lead Lengths | |
| Orange and Red | |
| Violet and Black | |
| Black/Yellow | |
| Violet/White | |
| Yellow | |

HID Metal Halide F-Can

HID Electronic and Electromagnetic Ballasts

86576 – 11210277CTC000C

HID Metal Halide F-Can

1 – 70W M85 120/277 Enclosed and Potted F-Can

| General characteristics | |
|-------------------------------|---------------------|
| Ballast Type | Magnetic – F-Can |
| ANSI Lamp Codes | M85 |
| Voltage | |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 90C |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | 100°C (212°F) |
| Sound Rating | |
| Additional Info | Thermally Protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Standard Pack | 1 | 4 |

| Specifications by lamp and line voltage | | | |
|---|--------------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | | |
| M85 | | 120 | 277 |
| 70W Ceramic | System Wattage (W) | 90 | 90 |
| Metal Halide | Nominal Current | 0.78 A | 0.35 A |
| 70W Quartz | Ballast Factor | 1 | 1 |
| Metal Halide | Ballast Efficiency Factor | 0.78 | 0.78 |
| | Max Input Current | 2.00 A | 0.90 A |
| | Starting Current | 0.60 A | 0.27 A |
| | Open Circuit Voltage | 250V | 250V |
| | Drop Out Voltage | 66V | 222V |
| | Power Factor (≥)% | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 |
| | Fuse Rating | 6 | 3 |
| | UL Bench Top Rise | | |

Safety and performance  UL Listed

- For applications requiring quieter or cooler operation than provided by standard coil and coil ballasts
- Excellent sound-deadening and heat transfer qualities

| Dimensions | |
|--|-------------------|
| Wiring diagram HID H34 – see example on page 18-67 | |
| Case dimensions – Ref Drawing FCAN1 – see page 18-70 | |
| Length (L) | 11.75 in (299 mm) |
| Width (W) | 3.2 in (81 mm) |
| Height (H) | 2.6 in (67 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Width (X or F) | 2.0 in (51 mm) |
| Mount Slots (MS) | 0.2 in (6 mm) |
| Weight | 11.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 20 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead Lengths | |
| Black and White | |
| Red | |
| Black/Yellow | |

63047 – GEM70MVR-F

HID Metal Halide F-Can

1 – 70W M98 120/277 Enclosed and Potted F-Can

| General characteristics | |
|-------------------------------|---------------------|
| Ballast Type | Magnetic – F-Can |
| ANSI Lamp Codes | M98 |
| Voltage | 120/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 90C |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | |
| Sound Rating | B(25-30 decibels) |
| Additional Info | Thermally Protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Standard Pack | 1 | 4 |

| Specifications by lamp and line voltage | | | |
|---|--------------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | | |
| M98 | | 120 | 277 |
| 70W Ceramic | System Wattage (W) | 82 | 79 |
| Metal Halide | Nominal Current | 0.70 A | 0.30 A |
| 70W Quartz | Ballast Factor | 1 | 1 |
| Metal Halide | Ballast Efficiency Factor | 0.85 | 0.88 |
| | Max Input Current | 2.00 A | 0.90 A |
| | Starting Current | 0.60 A | 0.27 A |
| | Open Circuit Voltage | 250V | 250V |
| | Drop Out Voltage | 114V | 263V |
| | Power Factor (≥)% | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 |
| | Fuse Rating | 6 | 3 |
| | UL Bench Top Rise | | |

Safety and performance  UL Listed

- For applications requiring quieter or cooler operation than provided by standard coil and coil ballasts
- Excellent sound-deadening and heat transfer qualities

| Dimensions | |
|--|-------------------|
| Wiring diagram HID H34 – see example on page 18-67 | |
| Case dimensions – Ref Drawing FCAN1 – see page 18-70 | |
| Length (L) | 11.75 in (299 mm) |
| Width (W) | 3.2 in (81 mm) |
| Height (H) | 2.6 in (67 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Width (X or F) | 2.0 in (51 mm) |
| Mount Slots (MS) | 0.2 in (6 mm) |
| Weight | 11.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead Lengths | |
| Black and White | 12 in (305 mm) |
| Red | 12 in (305 mm) |
| Black/Yellow | 12 in (305 mm) |

HID Metal Halide F-Can

HID Electronic and Electromagnetic Ballasts

63048 – GEMH100MVR-F

HID Metal Halide F-Can

1 – 100W M90 120/277 Enclosed and Potted F-Can

| General characteristics | |
|-------------------------------|---------------------|
| Ballast Type | Magnetic – F-Can |
| ANSI Lamp Codes | M90 |
| Voltage | 120/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 90C |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | 100°C (212°F) |
| Sound Rating | B (25-30 decibels) |
| Additional Info | Thermally Protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Standard Pack | 1 | 4 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|----------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| | | 120 | 277 | |
| M90 | 100W Ceramic | System Wattage (W) | 122 | 125 |
| | Metal Halide | Nominal Current | 1.07 A | 0.47 A |
| 100W Quartz Metal Halide | | Ballast Factor | 1 | 1 |
| | | Ballast Efficiency Factor | 0.80 | 0.80 |
| | | Max Input Current | 1.07 A | 0.47 A |
| | | Starting Current | 1.10 A | 0.50 A |
| | | Open Circuit Voltage | 250V | 250V |
| | | Drop Out Voltage | 96V | 222V |
| | | Power Factor (>=)% | 90 | 90 |
| | | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 |
| | Fuse Rating | 8 | 4 | |
| | UL Bench Top Rise | | | |

Safety and performance  UL Listed

- For applications requiring quieter or cooler operation than provided by standard coil and coil ballasts
- Excellent sound-deadening and heat transfer qualities

| Dimensions | |
|--|-------------------|
| Wiring diagram HID H34 – see example on page 18-67 | |
| Case dimensions – Ref Drawing FCAN1 – see page 18-70 | |
| Length (L) | 11.75 in (299 mm) |
| Width (W) | 3.2 in (81 mm) |
| Height (H) | 2.6 in (67 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Width (X or F) | 2.0 in (51 mm) |
| Mount Slots (MS) | 0.2 in (6 mm) |
| Weight | 11.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead Lengths | |
| Black and White | 12 in (305 mm) |
| Red | 12 in (305 mm) |
| Black/Yellow | 12 in (305 mm) |

63049 – GEMH150MVR-F

HID Metal Halide F-Can

1 – 150W MH 120/277 Enclosed and Potted F-Can

| General characteristics | |
|-------------------------------|---------------------|
| Ballast Type | Magnetic – F-Can |
| ANSI Lamp Codes | M102 |
| Voltage | 120/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 90C |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | 100°C (212°F) |
| Sound Rating | B (25-30 decibels) |
| Additional Info | Thermally Protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Standard Pack | 1 | 2 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|----------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| | | 120 | 277 | |
| M102 | 175W Ceramic | System Wattage (W) | 184 | 186 |
| | Metal Halide | Nominal Current | 1.75 a | 0.75 A |
| 150W Quartz Metal Halide | | Ballast Factor | 1 | 1 |
| | | Ballast Efficiency Factor | 0.85 | 0.85 |
| | | Max Input Current | | |
| | | Starting Current | 1.5 | .7 |
| | | Open Circuit Voltage | 260V | 260V |
| | | Drop Out Voltage | 75V | 160V |
| | | Power Factor (>=)% | 90 | 90 |
| | | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 |
| | Fuse Rating | 5 | 3 | |
| | UL Bench Top Rise | | | |

Safety and performance  UL Listed  CSA

- For applications requiring quieter or cooler operation than provided by standard coil and coil ballasts
- Excellent sound-deadening and heat transfer qualities

| Dimensions | |
|--|------------------|
| Wiring diagram HID H34 – see example on page 18-67 | |
| Case dimensions – Ref Drawing FCAN2 – see page 18-70 | |
| Length (L) | 11.8 in (300 mm) |
| Width (W) | 3.2 in (81 mm) |
| Height (H) | 2.8 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.4 in (290 mm) |
| Mount Width (X or F) | 2.0 in (51 mm) |
| Mount Slots (MS) | 0.2 in (6 mm) |
| Weight | 13.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | |
| Remote Mounting Wire Gauge | |
| Lead Lengths | |
| Black and White | 12 in (305 mm) |
| Red | 12 in (305 mm) |
| Black/Yellow | 12 in (305 mm) |

HID Metal Halide F-Can

HID Electronic and Electromagnetic Ballasts

63050 – GEMH175MVA-F

HID Metal Halide F-Can

1 – 175W M57 120/277 Enclosed and Potted F-Can

| General characteristics | |
|-------------------------------|---------------------|
| Ballast Type | Magnetic – F-Can |
| ANSI Lamp Codes | M57, H39 |
| Voltage | 120/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 90C |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | 105°C (221°F) |
| Sound Rating | B (25-30 decibels) |
| Additional Info | Thermally Protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Standard Pack | 1 | 2 |

| Specifications by lamp and line voltage | | | |
|---|--------------------------------|----------------------------|-----------|
| Lamp | Specifications by line voltage | | |
| M57, H39 | | 120 | 277 |
| | 175W Ceramic Metal Halide | System Wattage (W) 202 | 205 |
| 150W Quartz Metal Halide | | 1.75 a | 0.75 A |
| | 175W Mercury | Nominal Current | 1 |
| 175W Mercury | | 0.85 | 0.85 |
| | | Ballast Factor | |
| | | Max Input Current | |
| | | Starting Current | |
| | | Open Circuit Voltage | 300V |
| | | Drop Out Voltage | 114V |
| | | Power Factor (≥)% | 90 |
| | | Min. Starting Temp (°F/°C) | -22 / -30 |
| | | Fuse Rating | 5 |
| | | UL Bench Top Rise | |

Safety and performance  UL Listed

- For applications requiring quieter or cooler operation than provided by standard coil and coil ballasts
- Excellent sound-deadening and heat transfer qualities

| Dimensions | |
|--|------------------|
| Wiring diagram HID H34 – see example on page 18-67 | |
| Case dimensions – Ref Drawing FCAN2 – see page 18-70 | |
| Length (L) | 11.8 in (300 mm) |
| Width (W) | 3.2 in (81 mm) |
| Height (H) | 2.6 in (67 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.4 in (290 mm) |
| Mount Width (X or F) | 2.0 in (51 mm) |
| Mount Slots (MS) | 0.2 in (6 mm) |
| Weight | 13.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | |
| Remote Mounting Wire Gauge | |
| Lead Lengths | |
| Black and White | 12 in (305 mm) |
| Red | 12 in (305 mm) |
| Black/Yellow | 12 in (305 mm) |

63051 – GEMH250MVA-F

HID Metal Halide F-Can

1 – 250W M58 120/277 Enclosed and Potted F-Can

| General characteristics | |
|-------------------------------|---------------------|
| Ballast Type | Magnetic – F-Can |
| ANSI Lamp Codes | M58, H37 |
| Voltage | 120/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 90C |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | 100°C (212°F) |
| Sound Rating | C (31-36 decibels) |
| Additional Info | Thermally Protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Standard Pack | 1 | 2 |

| Specifications by lamp and line voltage | | | |
|---|--------------------------------|----------------------------|-----------|
| Lamp | Specifications by line voltage | | |
| M58, H37 | | 120 | 277 |
| | 250W Quartz Metal Halide | System Wattage (W) 319 | 312 |
| 175W Quartz Metal Halide | | 2.50 A | 1.10 A |
| | 250W Mercury | Nominal Current | 1 |
| | | 0.85 | 0.85 |
| | | Ballast Factor | |
| | | Ballast Efficiency Factor | |
| | | Max Input Current | |
| | | Starting Current | |
| | | Open Circuit Voltage | 280V |
| | | Drop Out Voltage | 96V |
| | | Power Factor (≥)% | 90 |
| | | Min. Starting Temp (°F/°C) | -22 / -30 |
| | | Fuse Rating | 8 |
| | | UL Bench Top Rise | |

Safety and performance  UL Listed

- For applications requiring quieter or cooler operation than provided by standard coil and coil ballasts
- Excellent sound-deadening and heat transfer qualities

| Dimensions | |
|--|------------------|
| Wiring diagram HID H34 – see example on page 18-67 | |
| Case dimensions – Ref Drawing FCAN3 – see page 18-70 | |
| Length (L) | 16.6 in (422 mm) |
| Width (W) | 3.2 in (81 mm) |
| Height (H) | 2.7 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 16.1 in (410 mm) |
| Mount Width (X or F) | 2.0 in (51 mm) |
| Mount Slots (MS) | 0.2 in (6 mm) |
| Weight | 17.50 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | |
| Remote Mounting Wire Gauge | |
| Lead Lengths | |
| Black and White | 12 in (305 mm) |
| Red | 12 in (305 mm) |
| Black/Yellow | 12 in (305 mm) |

HID Metal Halide F-Can

HID Electronic and Electromagnetic Ballasts

63052 – GEMH400MVA-F

HID Metal Halide F-Can

1 – 400W M59 120/277 Enclosed and Potted F-Can

| General characteristics | |
|-------------------------------|---------------------|
| Ballast Type | Magnetic – F-Can |
| ANSI Lamp Codes | M59, H33 |
| Voltage | 120/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 90C |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | 100°C (212°F) |
| Sound Rating | C (31-36 decibels) |
| Additional Info | Thermally Protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Standard Pack | 1 | 2 |

| Specifications by lamp and line voltage | | | |
|---|--------------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | | |
| M59, H39 | | 120 | 277 |
| | System Wattage (W) | 445 | 446 |
| 360W Quartz Metal Halide | Nominal Current | 3.90 A | 1.70 A |
| | Ballast Factor | 1 | 1 |
| 400W Quartz Metal Halide | Ballast Efficiency Factor | 0.88 | 0.88 |
| | Max Input Current | 3.90 A | 1.70 A |
| 400W Mercury | Starting Current | 2.50 A | 1.00 A |
| | Open Circuit Voltage | 300V | 300V |
| | Drop Out Voltage | 66V | 222V |
| | Power Factor (>=)% | 90 | 90 |
| | Min. Starting Temp (*F/*C) | -22 / -30 | -22 / -30 |
| | Fuse Rating | 10 | 5 |
| | UL Bench Top Rise | C | C |

Safety and performance  

80728 – 1111-247SCTC0001

HID Metal Halide F-Can

1 – 400W M59 120/277 Enclosed and Potted F-Can
(2 ballasts required to operate one 400W lamp)

| General characteristics | |
|-------------------------------|---------------------|
| Ballast Type | Magnetic – F-Can |
| ANSI Lamp Codes | M59, H33 |
| Voltage | 120/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 90C |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | 100°C (212°F) |
| Sound Rating | C (31-36 decibels) |
| Additional Info | Thermally Protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Standard Pack | 1 | 4 |

| Specifications by lamp and line voltage | | | |
|---|--------------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | | |
| M59, H33 | | 120 | 277 |
| | System Wattage (W) | 460 | 460 |
| 360W Quartz Metal Halide | Nominal Current | 3.90 A | 1.70 A |
| | Ballast Factor | 1 | 1 |
| 400W Quartz Metal Halide | Ballast Efficiency Factor | 0.87 | 0.87 |
| | Max Input Current | | |
| 400W Mercury | Starting Current | | |
| | Open Circuit Voltage | 300V | 300V |
| | Drop Out Voltage | 96V | 222V |
| | Power Factor (>=)% | | |
| | Min. Starting Temp (*F/*C) | -22 / -30 | -22 / -30 |
| | Fuse Rating | 10 | 5 |
| | UL Bench Top Rise | | |

Safety and performance  

- For applications requiring quieter or cooler operation than provided by standard coil and coil ballasts
- Excellent sound-deadening and heat transfer qualities

| Dimensions | |
|--|------------------|
| Wiring diagram HID H34 – see example on page 18-67 | |
| Case dimensions – Ref Drawing FCAN4 – see page 18-70 | |
| Length (L) | 21.6 in (549 mm) |
| Width (W) | 3.2 in (81 mm) |
| Height (H) | 2.6 in (67 mm) |
| Mounting dimensions | |
| Mount Length (M) | 21.0 in (533 mm) |
| Mount Width (X or F) | 2.0 in (51 mm) |
| Mount Slots (MS) | 0.2 in (6 mm) |
| Weight | 23.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | |
| Remote Mounting Wire Gauge | |
| Lead Lengths | |
| Black and White | 12 in (305 mm) |
| Red | 12 in (305 mm) |
| Black/Yellow | 12 in (305 mm) |

- For applications requiring quieter or cooler operation than provided by standard coil and coil ballasts
- Excellent sound-deadening and heat transfer qualities

| Dimensions | |
|--|------------------|
| Wiring diagram HID H36 – see example on page 18-67 | |
| Case dimensions – Ref Drawing FCAN2 – see page 18-70 | |
| Length (L) | 14.3 in (364 mm) |
| Width (W) | 3.2 in (81 mm) |
| Height (H) | 2.6 in (67 mm) |
| Mounting dimensions | |
| Mount Length (M) | 13.8 in (349 mm) |
| Mount Width (X or F) | 2.0 in (51 mm) |
| Mount Slots (MS) | 0.2 in (6 mm) |
| Weight | 14.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | |
| Remote Mounting Wire Gauge | |
| Lead Lengths | |
| Black and White | |
| Red | |
| Black/Yellow | |

HID - High Pressure Sodium F-Can

HID Electronic and Electromagnetic Ballasts

86596 – 12210237CTC0001

HID - High Pressure Sodium F-Can

1 – 70W S62 120/277 E & P F-Can built-in starter

| General characteristics | |
|-------------------------------|---------------------|
| Ballast Type | Magnetic – F-Can |
| ANSI Lamp Codes | S62 |
| Voltage | 120/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 90C |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | 100°C (212°F) |
| Sound Rating | |
| Additional Info | Thermally protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Standard Pack | 1 | 4 |

| Specifications by lamp & line voltage | | | |
|---------------------------------------|--------------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | | |
| S62 | | 120 | 277 |
| 70W High Pressure Sodium | System Wattage (W) | 98 | 98 |
| | Nominal Current | 0.87 A | 0.39 A |
| | Ballast Factor | 1 | 1 |
| | Ballast Efficiency Factor | 0.71 | 0.71 |
| | Max Input Current | 0.87 A | 0.39 A |
| | Starting Current | 0.60 A | 0.27 A |
| | Open Circuit Voltage | 140V | 140V |
| | Drop Out Voltage | 96V | 222V |
| | Power Factor (≥)% | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 |
| | Fuse Rating | 6 | 3 |
| | UL Bench Top Rise | | |

Safety and performance  UL Listed

- For applications requiring quieter or cooler operation than provided by standard coil & coil ballasts
- Excellent sound-deadening and heat transfer qualities

| Dimensions | |
|--|-------------------|
| Wiring diagram HID H34 – see example on page 18-67 | |
| Case dimensions – Ref Drawing FCAN1 – see page 18-70 | |
| Length (L) | 11.75 in (299 mm) |
| Width (W) | 3.188 in (81 mm) |
| Height (H) | 2.625 in (67 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | |
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Width (X or F) | 2.0 in (51 mm) |
| Mount Slots (MS) | 0.2 in (6 mm) |
| A | |
| B | |
| Weight | 11.00 lbs |
| Exit Type | Side |
| Nominal Length | |
| Frame Size (H x L) | |
| Lead lengths | |
| White | |
| Black | |
| Black/Yellow | |
| Red | |

T8 Instant Start

T8 Programmed Start

T8/75 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

HID - High Pressure Sodium Reactor

HID Electronic and Electromagnetic Ballasts

86605 – 1233142U0001

HID - High Pressure Sodium Reactor

1 – 70W S62 120 Reactor-NPF

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S62 |
| Voltage | 120 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | R-HPF |
| Insulation Class | R-NPF |
| Type of Capacitor | 90C |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | 100°C (212°F) |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Standard Pack | 1 | 6 |

| Specifications by lamp & line voltage | | | |
|---------------------------------------|--------------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | | |
| S62 70W High Pressure Sodium | | 120 | 120 |
| | System Wattage (W) | 83 | 83 |
| | Nominal Current | 0.75 A | 1.60 A |
| | Ballast Factor | 1 | 1 |
| | Ballast Efficiency Factor | 0.84 | 0.84 |
| | Max Input Current | 1.30 A | 2.10 A |
| | Starting Current | 0.90 A | 2.10 A |
| | Open Circuit Voltage | 120V | 120V |
| | Drop Out Voltage | 96V | 96V |
| | Power Factor (≥)% | 90 | 80 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 |
| | Fuse Rating | 5 | 8 |
| | UL Bench Top Rise | A | A |

Safety and performance  

86606 – 1233154U0001

HID - High Pressure Sodium Reactor

1 – 150W S55 120 Reactor-NPF

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S55 |
| Voltage | 120 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | R-NPF |
| Insulation Class | 180C |
| Type of Capacitor | |
| Capacitance | 52 Mfd |
| Voltage (MIN) | 120 |
| Capacitor Temperature Rating | 100°C (212°F) |
| Sound Rating | |
| Additional Info | Thermally protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Standard Pack | 1 | 6 |

| Specifications by lamp & line voltage | | | |
|--|--------------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | | |
| S55 150W High Pressure Sodium 250W Quartz Metal Halide | | 120 | 120 |
| | System Wattage (W) | 171 | 171 |
| | Nominal Current | 1.50 A | 3.20 A |
| | Ballast Factor | 1 | 1 |
| | Ballast Efficiency Factor | 1.46 | 1.46 |
| | Max Input Current | 2.40 A | 4.40 A |
| | Starting Current | 2.20 A | 4.40 A |
| | Open Circuit Voltage | 120V | 120V |
| | Drop Out Voltage | 96V | 96V |
| | Power Factor (≥)% | 90 | 80 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 |
| | Fuse Rating | 8 | 15 |
| | UL Bench Top Rise | A | A |

Safety and performance  

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity

| Dimensions | |
|--|------------------|
| Wiring diagram HID H1a, HID H1 – see example on page 18-67 | |
| Case dimensions – Ref Drawing 1 – see page 18-70 | |
| Length (L) | 4.00 in (102 mm) |
| Width (W) | 0.75 in (19 mm) |
| Height (H) | 0.1 in (2.36 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | 4.00 in (102 mm) |
| Mount Length (M) | 3.30 in (85 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 1.3 |
| B | 2.6 |
| Weight | 2.50 lbs |
| Exit Type | Side |
| Nominal Length | |
| Frame Size (H x L) | |
| Lead lengths | |
| Black | |
| Blue | |
| White | |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity

| Dimensions | |
|---|---------------------|
| Wiring diagram HID H1 – see example on page 18-67 | |
| Case dimensions – Ref Drawing 1 – see page 18-70 | |
| Length (L) | 4.00 in (102 mm) |
| Width (W) | 0.75 in (19 mm) |
| Height (H) | 0.1 in (2.36 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | 4.00 in (102 mm) |
| Mount Length (M) | 3.30 in (85 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.0 |
| B | 3.0 |
| Weight | 3.50 lbs |
| Exit Type | Side |
| Nominal Length | |
| Frame Size (H x L) | 2.813 in x 3.939 in |
| Lead lengths | |
| Black | |
| Blue | |
| White | |

HID Accessories and Replacement Capacitors

HID Electronic and Electromagnetic Ballasts

HID Accessories

| HID Accessories | Prod Code | Description | Application | Units Per Carton |
|---|-----------|----------------------|---|------------------|
| Replacement Ignitors for Pulse Start Lamps (MH & HPS) | 75440 | MH100-3A MH350-1A | Ignitor for MH 30 50 70 100 Ignitor MH 150W, PS 175 250 320 350 400W | 20 |
| | 75441 | MH750-1B | Ignitor MH PS 750W | |
| | 86635 | HPS150-3A | Ignitor HPS 150 watts or less except 150w-S56 | 20 |
| | 86641 | HPS400-3A | Ignitor HPS 200-400 watts & 150w S56 | 10 |
| | 75439 | HPS1000-4B | Ignitor HPS 1000W, PS 1000W | |
| Other Accessories | 47621 | 000-8724 | HIDP Adjustable Mounting Bracket Hardware Kit | 100 |

Ignitor Specifications

| Ballast Product Code | 86635 | 86641 | 75439 | 75440 | 75441 |
|------------------------------|---|--------------------------------------|-----------------------------|--|-------------------------|
| Ignitor Model No. | HPS150-3A | HPS400-3A | HPS1000-4B | MH350-1A | MH750-1B |
| Description | Ignitor HPS 150 watts or less except 150w-S56 | Ignitor HPS 200-400 watts & 150w S56 | Ignitor HPS 1000W, PS 1000W | Ignitor MH 150W, PS 175 250 320 350 400W | Ignitor MH PS 750W |
| Minimum Starting Voltage (V) | 95 | 105 | 175 | 203 | 210 |
| Pulse Height (kV) | 2.5-4.0 | 2.5-4.0 | 3.0-5.0 | 3.0-4.0 | 3.0-4.0 |
| Pulse Width (µs) | > 1.0 | > 1.0 | > 4.0 | > 1.0 | > 1.5 |
| Pulse Frequency (Hz) | > 100 | > 100 | > 100 | > 100 | > 100 |
| Ballast To Lamp Distance | 10FT | 10FT | 5FT | 5FT | 5FT |
| Maximum Case Temperature | 105°C | 105°C | 105°C | 105°C | 105°C |
| Starting Current (rms) Min | 0.83 | 4.6 | 4.7 | 0.68 | 4.5 |
| Starting Current (rms) Max | 1.25 | 7.5 | 8 | 1.1 | 5.8 |
| Diameter | 1.40" | 1.40" | 1.70" | 1.40" | 2 5/32" x 15/16" (oval) |
| Height | 2.55" | 2.55" | 2.80" | 2.55" | 3.0" |

Replacement Capacitors

| Prod Code | Description | Application | Capacity (µF) | VAC | Diameter (inches) | Case Ht. (inches) | Units Per Carton |
|-----------|-------------------|--|---------------|-----|-------------------|-------------------|------------------|
| 75433 | 005-1184-MF | 10.0 MFD 400V 90C 2.4 MEG 1.50 oval 2.7 ht | | | | | 20 |
| 75668 | 005-2779-MF | 24.0 MFD 480V 90C 1.75 oval 3.9 ht | | | | | 20 |
| 75429 | GECAP-5/300V-D | Capacitor 5MFD 280V Dry | 5 | 300 | 1.2 | 1.97 | 20 |
| 75425 | GECAP-6/280V-D | Capacitor 6MFD 280V Dry | 6 | 300 | 1.2 | 2.76 | 20 |
| 75430 | GECAP-7/300V-D | Capacitor 7MFD 300V Dry | 7 | 300 | 1.2 | 2.76 | 20 |
| 75426 | GECAP-8/280V-D | Capacitor 8MFD 280V Dry | 8 | 300 | 1.2 | 2.76 | 20 |
| 75433 | GECAP-10/400V-O | Capacitor 10MFD 400V Oil | 10 | 400 | 1.75 | 2.38 | 20 |
| 75427 | GECAP-12/280V-D | Capacitor 12MFD 280V Dry | 12 | 300 | 1.2 | 3.15 | 20 |
| 75669 | GECAP-14/280V-D | Capacitor 14MFD 280V Dry | 14 | 300 | 1.4 | 2.76 | 20 |
| 75434 | GECAP-15/400V-O | Capacitor 15MFD 400V Oil | 15 | 400 | 1.75 | 2.88 | 20 |
| 75428 | GECAP-16/280V-D | Capacitor 16MFD 280V Dry | 16 | 300 | 1.4 | 3.15 | 20 |
| 75431 | GECAP-21/345V-O | Capacitor 21MFD 345V Oil | 21 | 345 | 1.75 | 3.13 | 20 |
| 75432 | GECAP-22.5/345V-O | Capacitor 22.5MFD 345V Oil | 22.5 | 345 | 1.75 | 3.75 | 20 |
| 75435 | GECAP-24/400V-O | Capacitor 24MFD 400V Oil | 24 | 400 | 1.75 | 3.75 | 20 |
| 75668 | GECAP-24/480V-O | Capacitor 24MFD 480V Oil | 24 | 480 | 2 | 3.91 | 20 |
| 75437 | GECAP-26/525V-O | Capacitor 26MFD 525V Oil | 26 | 525 | 2 | 3.91 | 20 |
| 75436 | GECAP-28/400V-O | Capacitor 28MFD 400V Oil | 28 | 400 | 1.75 | 3.88 | 20 |
| 75438 | GECAP-32/525V-O | Capacitor 32MFD 525V Oil | 32 | 525 | 2 | 3.91 | 20 |
| 75422 | GECAP-35/240V-D | Capacitor 35MFD 240V Dry | 35 | 240 | 1.5 | 3.75 | 20 |
| 75423 | GECAP-55/240V-D | Capacitor 55MFD 240V Dry | 55 | 240 | 1.5 | 3.75 | 20 |

HID Accessories and Replacement Capacitors

HID Electronic and Electromagnetic Ballasts

Capacitors and Ignitors

| Lamp Type | Use with ANSI Lamp Types | Watts | Prod Code | New GE Description | Description | Kit Capacitor | | | | Replacement Capacitor | | Actual electrical voltage of capacitor both ends | Original | Replacement Ignitor | | |
|--------------|--------------------------|-------|-----------|--------------------|--|---------------|----|---------|------------|-----------------------|-----------------|--|-----------------|---------------------|----------|--|
| | | | | | | Cap. | uF | Min Vac | UL Min Vac | Prod Code | Desc. | | | Prod Code | Ignitor | |
| Metal Halide | M110 | 50 | 86824 | GEM50MLTLC3D-5 | 1- 50w MH M110 or M148 Quad (120/208/240/277V) | 6MFD 280V | 6 | 280 | 280 | 75425 | GECAP-6/280V-D | | GECAP-6/280V-D | 75440 | MH350-1A | |
| | M148 | 50 | 86824 | GEM50MLTLC3D-5 | 1- 50w MH M110 or M148 Quad (120/208/240/277V) | 6MFD 280V | 6 | 280 | 280 | 75425 | GECAP-6/280V-D | | GECAP-6/280V-D | 75440 | MH350-1A | |
| | M143 | 70 | 86839 | GEM7048TLC3D-5 | 1- 70w MH M 98 or M143 480 | 8MFD 280V | 8 | 280 | 280 | 75426 | GECAP-8/280V-D | | GECAP-8/280V-D | 75440 | MH350-1A | |
| | M143 | 70 | 86847 | GEM70MLTLC3D-5 | 1- 70w MH M 98 or M143 Quad (120/208/240/277V) | 8MFD 280V | 8 | 280 | 280 | 75426 | GECAP-8/280V-D | | GECAP-8/280V-D | 75440 | MH350-1A | |
| | M143 | 70 | 78517 | GEM70TRILC3-5 | 1- 70w MH M 98 or M143 Quad (120/208/240/277V) | 8MFD 300V | 8 | 300 | 280 | 75426 | GECAP-8/280V-D | 277V | GECAP-8/280V-D | 75440 | MH350-1A | |
| | M85 | 70 | 86576 | 11210277CTC000C | 1- 70w M85 120/277 Enclosed & Potted | Internal | | | | | | | | | | |
| | M98 | 70 | 86578 | 11210506CTC000C | 1- 70w M98 120/277 Enclosed & Potted | Internal | | | | | | | | | | |
| | M98 | 70 | 86839 | GEM7048TLC3D-5 | 1- 70w MH M 98 or M143 480 | 8MFD 280V | 8 | 280 | 280 | 75426 | GECAP-8/280V-D | | GECAP-8/280V-D | 75440 | MH350-1A | |
| | M98 | 70 | 86847 | GEM70MLTLC3D-5 | 1- 70w MH M 98 or M143 Quad (120/208/240/277V) | 8MFD 280V | 8 | 280 | 280 | 75426 | GECAP-8/280V-D | | GECAP-8/280V-D | 75440 | MH350-1A | |
| | M140 | 100 | 86667 | GEM10048TLC3D-5 | 1- 100w MH M 90 or M140 480 | 12MFD 280V | 12 | 280 | 280 | 75427 | GECAP-12/280V-D | | GECAP-12/280V-D | 75440 | MH350-1A | |
| | M140 | 100 | 86675 | GEM100MLTLC3D-5 | 1- 100w MH M 90 or M140 Quad (120/208/240/277V) | 12MFD 280V | 12 | 280 | 280 | 75427 | GECAP-12/280V-D | | GECAP-12/280V-D | 75440 | MH350-1A | |
| | M140 | 100 | 78519 | GEM100TRILC3-5 | 1- 100w MH M 90 or M140 Quad (120/208/240/277V) | 12MFD 300V | 12 | 300 | 280 | 75427 | GECAP-12/280V-D | 277V | GECAP-12/280V-D | 75440 | MH350-1A | |
| | M90 | 100 | 86574 | 11210239CTC000I | 1- 100w M90 120/277 Enclosed & Potted | Internal | | | | | | | | | | |
| | M90 | 100 | 86667 | GEM10048TLC3D-5 | 1- 100w MH M 90 or M140 480 | 12MFD 280V | 12 | 280 | 280 | 75427 | GECAP-12/280V-D | | GECAP-12/280V-D | 75440 | MH350-1A | |
| | M90 | 100 | 86675 | GEM100MLTLC3D-5 | 1- 100w MH M 90 or M140 Quad (120/208/240/277V) | 12MFD 280V | 12 | 280 | 280 | 75427 | GECAP-12/280V-D | | GECAP-12/280V-D | 75440 | MH350-1A | |
| | M92 | 100 | 86667 | GEM10048TLC3D-5 | 1- 100w MH M 90 or M140 480 | 12MFD 280V | 12 | 280 | 280 | 75427 | GECAP-12/280V-D | | GECAP-12/280V-D | 75440 | MH350-1A | |
| | M92 | 100 | 86675 | GEM100MLTLC3D-5 | 1- 100w MH M 90 or M140 Quad (120/208/240/277V) | 12MFD 280V | 12 | 280 | 280 | 75427 | GECAP-12/280V-D | | GECAP-12/280V-D | 75440 | MH350-1A | |
| | M102 | 150 | 86711 | GEM15048TLC3D-5 | 1- 150w MH M102 or M142 480 | 16MFD 280V | 16 | 280 | 280 | 75428 | GECAP-16/280V-D | | GECAP-16/280V-D | 75440 | MH350-1A | |
| | M102 | 150 | 86718 | GEM150MLTLC3D-5 | 1- 150w MH M102 or M142 Quad (120/208/240/277V) | 16MFD 280V | 16 | 280 | 280 | 75428 | GECAP-16/280V-D | | GECAP-16/280V-D | 75440 | MH350-1A | |
| | M102 | 150 | 78520 | GEM150TRILC3-5 | 1- 150w MH M102 or M142 Quad (120/208/240/277V) | 16MFD 300V | 16 | 300 | 280 | 75428 | GECAP-16/280V-D | 277V | GECAP-16/280V-D | 75440 | MH350-1A | |
| | M107 | 150 | 86711 | GEM15048TLC3D-5 | 1- 150w MH M102 or M142 480 | 16MFD 280V | 16 | 280 | 280 | 75428 | GECAP-16/280V-D | | GECAP-16/280V-D | 75440 | MH350-1A | |
| | M107 | 150 | 86718 | GEM150MLTLC3D-5 | 1- 150w MH M102 or M142 Quad (120/208/240/277V) | 16MFD 280V | 16 | 280 | 280 | 75428 | GECAP-16/280V-D | | GECAP-16/280V-D | 75440 | MH350-1A | |
| | M142 | 150 | 86711 | GEM15048TLC3D-5 | 1- 150w MH M102 or M142 480 | 16MFD 280V | 16 | 280 | 280 | 75428 | GECAP-16/280V-D | | GECAP-16/280V-D | 75440 | MH350-1A | |
| | M142 | 150 | 86718 | GEM150MLTLC3D-5 | 1- 150w MH M102 or M142 Quad (120/208/240/277V) | 16MFD 280V | 16 | 280 | 280 | 75428 | GECAP-16/280V-D | | GECAP-16/280V-D | 75440 | MH350-1A | |
| | M57 | 175 | 86563 | 1110245SCTC000I | 1- 175w M57 120/277 Enclosed & Potted | Internal | | | | | | | | | | |
| | M57 | 175 | 87210 | GEM175ML5AC3-5 | 1- 175w MH M 57 or H 39 5-Tap (120/208/240/277/480V) | 10MFD 400V | 10 | 400 | 400 | 75433 | GECAP-10/400V-O | | 005-1184-MF | | N/A | |
| | M57 | 175 | 86741 | GEM175MLTAC3-5 | 1- 175w MH M 57 or H 39 Quad (120/208/240/277V) | 10MFD 400V | 10 | 400 | 400 | 75433 | GECAP-10/400V-O | | 005-1184-MF | | N/A | |
| | M57 | 175 | 78521 | GEM175TRIAC3-5 | 1- 175w MH M 57 or H 39 Quad (120/208/240/277V) | 12MFD 450V | 12 | 450 | 400 | 75433 | | 370V | 005-1184-MF | | N/A | |
| | M58 | 250 | 86564 | 1110246CTC000C | 1- 250w M58 120/277 Enclosed & Potted | Internal | | | | | | | | | | |

HID Accessories and Replacement Capacitors

HID Electronic and Electromagnetic Ballasts

Ballasts

| Lamp Type | Use with ANSI Lamp Types | Watts | Prod Code | New GE Description | Description | Kit Capacitor | | | Replacement Capacitor | | | Replacement Ignitor | | | |
|--------------|--------------------------|-------|----------------|---|---|--|------------|---------|-----------------------|-----------|-----------------|--|-------------|-----------------|----------|
| | | | | | | Cap. | uF | Min Vac | UL Min Vac | Prod Code | Desc. | Actual electrical voltage of capacitor both ends | Original | Prod Code | Ignitor |
| Metal Halide | M58 | 250 | 87211 | GEM250ML5AC3-5 | 1- 250w MH M 58 or H 37 5-Tap (120/208/240/277/480V) | 15MFD 400V | 15 | 400 | 400 | 75434 | GECAP-15/400V-O | | 005-1185-MF | N/A | |
| | M58 | 250 | 87212 | GEM250ML5AC4-5 | 1- 250w MH M 58 or H 37 5-Tap (120/208/240/277/480V) | 15MFD 400V | 15 | 400 | 400 | 75434 | GECAP-15/400V-O | | 005-1185-MF | N/A | |
| | M58 | 250 | 86765 | GEM250MLTAC3-5 | 1- 250w MH M 58 or H 37 Quad (120/208/240/277V) | 15MFD 400V | 15 | 400 | 400 | 75434 | GECAP-15/400V-O | | 005-1185-MF | N/A | |
| | M58 | 250 | 78522 | GEM250TRIAC4-5 | 1- 250w MH M 58 or H 37 Quad (120/208/240/277V) | 15MFD 450V | 15 | 450 | 400 | 75434 | GECAP-15/400V-O | 370V | 005-1185-MF | N/A | |
| | M59 | 400 | 42670 | 1110-247SC-TC | 1- 400w M59 120/277 Enclosed & Potted F-can | Internal | | | | | | | | | |
| | M59 | 400 | 80728 | 1111-247SCTC0001 | 1- 400w M59 120/277 Enclosed & Potted | Internal | | | | | | | | | |
| | M59 | 400 | 86803 | GEM40048TAC4-5 | 1- 400w MH M 59 or H 33 480 | 24MFD 400V | 24 | 400 | 400 | 75435 | GECAP-24/400V-O | | 005-2779-MF | N/A | |
| | M59 | 400 | 72300 | GEM400ML5AA4-5 | 1- 400w MH M59 or H33 5-Tap (120/208/240/277/480V) AI C&C | 24MFD 400V | 24 | 400 | 360 | 75435 | GECAP-24/400V-O | | 005-2779-MF | N/A | |
| | M59 | 400 | 72149 | GEM400MLTAA4-5 | 1- 400w MH M 59 or H 33 Quad (120/208/240/277V) AI C&C | 24MFD 400V | 24 | 400 | 400 | 75435 | GECAP-24/400V-O | | 005-2779-MF | N/A | |
| | M59 | 400 | 78523 | GEM400TRIAC4-5 | 1- 400w MH M 59 or H 33 Quad (120/208/240/277V) AI C&C | 24MFD 450V | 24 | 450 | 400 | 75668 | GECAP-24/480V-O | 370V | 005-2779-MF | N/A | |
| | M47 | 1000 | 86650 | GEM100048TAC5-5 | 1- 1000w MH M 47 or H 36 480 | 24MFD 480V | 24 | 480 | 480 | 75668 | GECAP-24/480V-O | | 005-2779-MF | N/A | |
| | M47 | 1000 | 87213 | GEM1000ML5AA5-5 | 1- 1000w MH M 47 or H 36 5-Tap (120/208/240/277/480V) | 24MFD 480V | 24 | 480 | 480 | 75668 | GECAP-24/480V-O | | 005-2779-MF | N/A | |
| | M47 | 1000 | 86655 | GEM1000MLTAA5-5 | 1- 1000w MH M 47 or H 36 Quad (120/208/240/277V) | 24MFD 480V | 24 | 480 | 480 | 75668 | GECAP-24/480V-O | | 005-2779-MF | N/A | |
| | M47 | 1000 | 78524 | GEM1000TRIAC5-5 | 1- 1000w MH M 47 or H 36 Quad (120/208/240/277V) | 24MFD 540V | 24 | 540 | 480 | 75668 | GECAP-24/480V-O | 450V | 005-2779-MF | N/A | |
| | Pulse Start | M48 | 1500 | 86693 | GEM150048TAC5-5 | 1- 1500w MH M 48 480 | 32MFD 525V | 32 | 525 | 525 | 75438 | GECAP-32/525V-O | | GECAP-32/525V-O | N/A |
| | | M48 | 1500 | 86698 | GEM1500MLTAC5-5 | 1- 1500w MH M 48 Quad (120/208/240/277V) | 32MFD 525V | 32 | 525 | 525 | 75438 | GECAP-32/525V-O | | GECAP-32/525V-O | N/A |
| M156 | | 20 | 87490 | GEMH20-MLF-120 | 1- 20W M156 120V Electronic HID | Internal | | | | | | | | Internal | |
| M130 | | 39 | 87501 | GEMH39-MSF-120 | 1- 39W M130 120V Electronic HID | Internal | | | | | | | | | Internal |
| C148 | | 50 | 87516 | GEMH50-MSF-120 | 1- 50W M110 M/C148 120V Electronic HID | Internal | | | | | | | | | Internal |
| M110 | | 50 | 87516 | GEMH50-MSF-120 | 1- 50W M110 M/C148 120V Electronic HID | Internal | | | | | | | | | Internal |
| M148 | | 50 | 87516 | GEMH50-MSF-120 | 1- 50W M110 M/C148 120V Electronic HID | Internal | | | | | | | | | Internal |
| C143 | | 70 | 87531 | GEMH70-MSF-120 | 1- 70W M98 M/C143 120V Electronic HID | Internal | | | | | | | | | Internal |
| C143 | | 70 | 87546 | GEMH70-SLJ-MV | 1- 70W M98 M/C143 120V-277V Electronic HID | Internal | | | | | | | | | Internal |
| M139 | | 70 | 87531 | GEMH70-MSF-120 | 1- 70W M98 M/C143 120V Electronic HID | Internal | | | | | | | | | Internal |
| M139 | | 70 | 87531 | GEMH70-MSF-120 | 1- 70W M98 M/C143 120V Electronic HID | Internal | | | | | | | | | Internal |
| M143 | | 70 | 87531 | GEMH70-MSF-120 | 1- 70W M98 M/C143 120V Electronic HID | Internal | | | | | | | | | Internal |
| M143 | | 70 | 87546 | GEMH70-SLJ-MV | 1- 70W M98 M/C143 120V-277V Electronic HID | Internal | | | | | | | | | Internal |
| M98 | | 70 | 87531 | GEMH70-MSF-120 | 1- 70W M98 M/C143 120V Electronic HID | Internal | | | | | | | | | Internal |
| M98 | | 70 | 87546 | GEMH70-SLJ-MV | 1- 70W M98 M/C143 120V-277V Electronic HID | Internal | | | | | | | | | Internal |
| C140 | | 100 | 87561 | GEMH100-SLJ-MV | 1- 100W M90 M/C140 120V-277V Electronic HID | Internal | | | | | | | | | Internal |
| M140 | 100 | 87561 | GEMH100-SLJ-MV | 1- 100W M90 M/C140 120V-277V Electronic HID | Internal | | | | | | | | | Internal | |

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

HID Accessories and Replacement Capacitors

HID Electronic and Electromagnetic Ballasts

| Lamp Type | Use with ANSI Lamp Types | Watts | Prod Code | New GE Description | Description | Kit Capacitor | | | | Replacement Capacitor | | | Replacement Ignitor | | |
|-------------|--------------------------|-------|-----------|--------------------|---|---------------|----|---------|------------|-----------------------|-----------------|--|---------------------|-----------|----------|
| | | | | | | Cap. | uF | Min Vac | UL Min Vac | Prod Code | Desc. | Actual electrical voltage of capacitor both ends | Original | Prod Code | Ignitor |
| Pulse Start | M90 | 100 | 87561 | GEMH100-SLJ-MV | 1 - 100W M90 M/C140 120V-277V Electronic HID | Internal | | | | | | | | | Internal |
| | C142 | 150 | 87576 | GEMH150-SLJ-MV | 1 - 150W M102 M/C142 120V-277V Electronic HID | Internal | | | | | | | | | Internal |
| | M102 | 150 | 87576 | GEMH150-SLJ-MV | 1 - 150W M102 M/C142 120V-277V Electronic HID | Internal | | | | | | | | | Internal |
| | M142 | 150 | 87576 | GEMH150-SLJ-MV | 1 - 150W M102 M/C142 120V-277V Electronic HID | Internal | | | | | | | | | Internal |
| | M137 | 175 | 86876 | GEP17548TAC3-5 | 1- 175w PS M137 or M152 480 | 10MFD 400V | 10 | 400 | 400 | 75433 | GECAP-10/400V-O | | 005-1184-MF | 75440 | MH350-1A |
| | M137 | 175 | 86885 | GEP175MLTAC3-5 | 1- 175w PS M137 or M152 Quad (120/208/240/277V) | 10MFD 400V | 10 | 400 | 400 | 75433 | GECAP-10/400V-O | | 005-1184-MF | 75440 | MH350-1A |
| | M152 | 175 | 86876 | GEP17548TAC3-5 | 1- 175w PS M137 or M152 480 | 10MFD 400V | 10 | 400 | 400 | 75433 | GECAP-10/400V-O | | 005-1184-MF | 75440 | MH350-1A |
| | M152 | 175 | 86885 | GEP175MLTAC3-5 | 1- 175w PS M137 or M152 Quad (120/208/240/277V) | 10MFD 400V | 10 | 400 | 400 | 75433 | GECAP-10/400V-O | | 005-1184-MF | 75440 | MH350-1A |
| | M152 | 175 | 78525 | GEP175TRIAC3-5 | 1- 175w PS M137 or M152 Quad (120/208/240/277V) | 12MFD 450V | 12 | 450 | 400 | 75433 | GECAP-10/400V-O | 330V | 005-1184-MF | 75440 | MH350-1A |
| | M136 | 250 | 78526 | GEP200TRIAC3-5 | 1- 250w PS M138 or M153 Quad (120/208/240/277V) | 16MFD 450V | 16 | 450 | 400 | | | | 005-1185-MF | 75440 | MH350-1A |
| | CMH250 | 250 | 29377 | GE-MH-250-400-MA | 1 - 250 to 400W UltraMax HID Electronic 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | CMH250 | 250 | 89646 | GEMH250-400MV50 | 1 - 250 to 400W UltraMax HID Dimming 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M138 | 250 | 86926 | GEP25048TAC4-5 | 1- 250w PS M138 or M153 480 | 15MFD 400V | 15 | 400 | 400 | 75434 | GECAP-15/400V-O | | 005-1185-MF | 75440 | MH350-1A |
| | M138 | 250 | 86935 | GEP250MLTAC4-5 | 1- 250w PS M138 or M153 Quad (120/208/240/277V) | 15MFD 400V | 15 | 400 | 400 | 75434 | GECAP-15/400V-O | | 005-1185-MF | 75440 | MH350-1A |
| | M138 | 250 | 78527 | GEP250TRIAC4-5 | 1- 250w PS M138 or M153 Quad (120/208/240/277V) | 15MFD 450V | 15 | 450 | 400 | 75434 | GECAP-15/400V-O | 370V | 005-1185-MF | 75440 | MH350-1A |
| | M153 | 250 | 29377 | GE-MH-250-400-MA | 1 - 250 to 400W UltraMax HID Electronic 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M153 | 250 | 89646 | GEMH250-400MV50 | 1 - 250 to 400W UltraMax HID Dimming 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M153 | 250 | 86926 | GEP25048TAC4-5 | 1- 250w PS M138 or M153 480 | 15MFD 400V | 15 | 400 | 400 | 75434 | GECAP-15/400V-O | | 005-1185-MF | | |
| | M153 | 250 | 86935 | GEP250MLTAC4-5 | 1- 250w PS M138 or M153 Quad (120/208/240/277V) | 15MFD 400V | 15 | 400 | 400 | 75434 | GECAP-15/400V-O | | 005-1185-MF | 75440 | MH350-1A |
| | CMH320 | 320 | 29377 | GE-MH-250-400-MA | 1 - 250 to 400W UltraMax HID Electronic 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | CMH320 | 320 | 89646 | GEMH250-400MV50 | 1 - 250 to 400W UltraMax HID Dimming 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M132 | 320 | 29377 | GE-MH-250-400-MA | 1 - 250 to 400W UltraMax HID Electronic 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M132 | 320 | 89646 | GEMH250-400MV50 | 1 - 250 to 400W UltraMax HID Dimming 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M132 | 320 | 86952 | GEP32048TAC4-5 | 1- 320w PS M132 or M154 480 | 21MFD 345V | 21 | 345 | 345 | 75431 | GECAP-21/345V-O | | GECAP-21/345V-O | 75440 | MH350-1A |
| | M132 | 320 | 86959 | GEP320MLTAC4-5 | 1- 320w PS M132 or M154 Quad (120/208/240/277V) | 21MFD 345V | 21 | 345 | 345 | 75431 | GECAP-21/345V-O | | GECAP-21/345V-O | 75440 | MH350-1A |
| | M132 | 320 | 78528 | GEP320TRIAC4-5 | 1- 320w PS M132 or M154 TRI-Voltage 120 277 347 | 21MFD 450V | 21 | 450 | | 75431 | GECAP-21/345V-O | 360V | | 75440 | MH350-1A |
| | M154 | 320 | 29377 | GE-MH-250-400-MA | 1 - 250 to 400W UltraMax HID Electronic 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M154 | 320 | 89646 | GEMH250-400MV50 | 1 - 250 to 400W UltraMax HID Dimming 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M154 | 320 | 86952 | GEP32048TAC4-5 | 1- 320w PS M132 or M154 480 | 21MFD 345V | 21 | 345 | 345 | 75431 | GECAP-21/345V-O | | GECAP-21/345V-O | 75440 | MH350-1A |
| | M154 | 320 | 86959 | GEP320MLTAC4-5 | 1- 320w PS M132 or M154 Quad (120/208/240/277V) | 21MFD 345V | 21 | 345 | 345 | 75431 | GECAP-21/345V-O | | GECAP-21/345V-O | 75440 | MH350-1A |

HID Accessories and Replacement Capacitors

HID Electronic and Electromagnetic Ballasts

Ballasts

| Lamp Type | Use with ANSI Lamp Types | Watts | Prod Code | New GE Description | Description | Kit Capacitor | | | | Replacement Capacitor | | | Replacement Ignitor | | |
|----------------------|--------------------------|-------|-----------------|--|---|---------------|------|---------|------------|-----------------------|------------------|--|---------------------|------------|-----------|
| | | | | | | Cap. | uF | Min Vac | UL Min Vac | Prod Code | Desc. | Actual electrical voltage of capacitor both ends | Original | Prod Code | Ignitor |
| High Pressure Sodium | M154 | 320 | 86968 | GEP320TRIAC4-5 | 1- 320w PS M132 or M154 TRI-Voltage 120 277 347 | 21MFD 345V | 21 | 345 | | 75431 | GECAP-21/345V-O | | GECAP-21/345V-O | 75440 | MH350-1A |
| | CMH350 | 350 | 29377 | GE-MH-250-400-MA | 1 - 250 to 400W UltraMax HID Electronic 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | CMH350 | 350 | 89646 | GEMH250-400MV50 | 1 - 250 to 400W UltraMax HID Dimming 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M131 | 350 | 29377 | GE-MH-250-400-MA | 1 - 250 to 400W UltraMax HID Electronic 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M131 | 350 | 89646 | GEMH250-400MV50 | 1 - 250 to 400W UltraMax HID Dimming 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M131 | 350 | 42692 | GEP350277RCE-5 | 1- 350w PS M131 277 Reactor | 22.5MFD 345V | 22.5 | 345 | | 75432 | GECAP-225/345V-O | | GECAP-22.5/345V-O | 75440 | MH350-1A |
| | M131 | 350 | 86984 | GEP350MLTAC4-5 | 1- 350w PS M131 Quad (120/208/240/277V) | 22.5MFD 345V | 22.5 | 345 | 345 | 75432 | GECAP-225/345V-O | | GECAP-22.5/345V-O | 75440 | MH350-1A |
| | M131 | 350 | 78529 | GEP350TRIAC4-5 | 1- 350w PS M131 Quad (120/208/240/277V) | 22MFD 450V | 22 | 450 | 345 | 75432 | | 360V | GECAP-22.5/345V-O | 75440 | MH350-1A |
| | CMH400 | 400 | 29377 | GE-MH-250-400-MA | 1 - 250 to 400W UltraMax HID Electronic 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | CMH400 | 400 | 89646 | GEMH250-400MV50 | 1 - 250 to 400W UltraMax HID Dimming 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M135 | 400 | 29377 | GE-MH-250-400-MA | 1 - 250 to 400W UltraMax HID Electronic 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M135 | 400 | 89646 | GEMH250-400MV50 | 1 - 250 to 400W UltraMax HID Dimming 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M135 | 400 | 86999 | GEP40048TAC4-5 | 1- 400w PS M135 or M155 480 | 24MFD 400V | 24 | 400 | 400 | 75435 | GECAP-24/400V-O | | 005-2779-MF | 75440 | MH350-1A |
| | M135 | 400 | 87008 | GEP400MLTAC4-5 | 1- 400w PS M135 or M155 Quad (120/208/240/277V) | 24MFD 400V | 24 | 400 | 400 | 75435 | GECAP-24/400V-O | | 005-2779-MF | 75440 | MH350-1A |
| | M135 | 400 | 78530 | GEP400TRIAC4-5 | 1- 400w PS M135 or M155 Quad (120/208/240/277V) | 26MFD 450V | 26 | 450 | 400 | 75437 | GECAP-26/525V-O | 360V | 005-2779-MF | 75440 | MH350-1A |
| | M155 | 400 | 29377 | GE-MH-250-400-MA | 1 - 250 to 400W UltraMax HID Electronic 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M155 | 400 | 89646 | GEMH250-400MV50 | 1 - 250 to 400W UltraMax HID Dimming 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M155 | 400 | 87008 | GEP400MLTAC4-5 | 1- 400w PS M135 or M155 Quad (120/208/240/277V) | 24MFD 400V | 24 | 400 | 400 | 75435 | GECAP-24/400V-O | | 005-2779-MF | 75440 | MH350-1A |
| | M155 | 400 | 86999 | GEP40048TAC4-5 | 1- 400w PS M135 or M155 480 | 24MFD 400V | 24 | 400 | 400 | 75435 | GECAP-24/400V-O | | 005-2779-MF | 75440 | MH350-1A |
| | M149 | 750 | 46936 | GEP75048TAC5-5 | 1-750w PS M149 480 | 28MFD 400V | 28 | 400 | 400 | 75436 | GECAP-28/400V-O | | GECAP-28/400V-O | 75441 | MH750-1B |
| M149 | 750 | 46934 | GEP750MLTAC5-5 | 1-750w PS M149 Quad (120/208/240/277V) | 28MFD 400V | 28 | 400 | 400 | 75436 | GECAP-28/400V-O | | GECAP-28/400V-O | 75441 | MH750-1B | |
| M149 | 750 | 78531 | GEP750TRIAC5-5 | 1-750w PS M149 Quad (120/208/240/277V) | 28MFD 450V | 28 | 450 | 400 | 75436 | GECAP-28/400V-O | 405V | GECAP-28/400V-O | 75441 | MH750-1B | |
| M141 | 1000 | 72282 | GEP1000ML5AC5-5 | 1-1000w PS M141 5-Tap (120/208/240/277/480V) | 24MFD 480V | 24 | 480 | 480 | 75668 | GECAP-24/480V-O | | 005-2779-MF | 75439 | HPS1000-4B | |
| M141 | 1000 | 72281 | GEP1000MLTAC5-5 | 1-1000w PS M141 Quad (120/208/240/277V) | 24MFD 480V | 24 | 480 | 480 | 75668 | GECAP-24/480V-O | | 005-2779-MF | 75439 | HPS1000-4B | |
| M141 | 1000 | 78532 | GEP1000TRIAC5-5 | 1-1000w PS M141 Quad (120/208/240/277V) | 25MFD 450V | 25 | 450 | 480 | 75668 | | 430V | 005-2779-MF | 75439 | HPS1000-4B | |
| High Pressure Sodium | S68 | 50 | 87152 | GES50MLTLC3D-5 | 1- 50w HPS S68 Quad (120/208/240/277V) | 5MFD 280V | 5 | 300 | 300 | 75429 | GECAP-5/300V-D | | GECAP-5/300V-D | 86635 | HPS150-3A |
| | S62 | 70 | 86596 | 12210237CTC0001 | 1- 70w S62 120/277 E & P F-can built-in starter | Internal | | | | | | | | | Internal |
| | S62 | 70 | 86605 | 1233142U0001 | 1- 70w S62 120 Reactor-NPF | Internal | | | | | | | | | Internal |
| | S68 | 70 | 78533 | GES50TRLIC3-5 | 1- 70w HPS S62 Quad (120/208/240/277V) | 5MFD 300V | 5 | 300 | 300 | 75430 | | 277V | GECAP-7/300V-D | 86635 | HPS150-3A |
| | S62 | 70 | 86456 | GES7048TLC3D-5 | 1- 70w HPS S62 480V | 7MFD 300V | 7 | 300 | 300 | 75430 | GECAP-7/300V-D | | GECAP-7/300V-D | 86635 | HPS150-3A |

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

HID Accessories and Replacement Capacitors

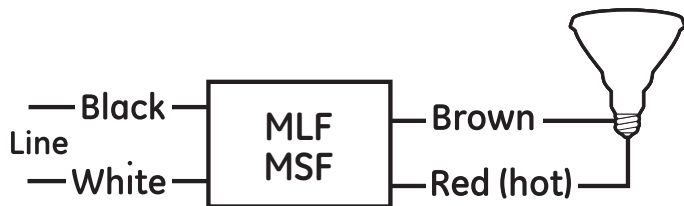
HID Electronic and Electromagnetic Ballasts

| Lamp Type | Use with ANSI Lamp Types | Watts | Prod Code | New GE Description | Description | Kit Capacitor | | | | Replacement Capacitor | | Actual electrical voltage of capacitor both ends | Original | Replacement Ignitor | | |
|----------------------|--------------------------|-------|-----------|--------------------|---|---------------|----|---------|------------|-----------------------|-----------------|--|-----------------|---------------------|------------|----------|
| | | | | | | Cap. | uF | Min Vac | UL Min Vac | Prod Code | Desc. | | | Prod Code | Ignitor | |
| High Pressure Sodium | S62 | 70 | 86587 | GES70MLTLC3D-5 | 1- 70w HPS S62 Quad (120/208/240/277V) | 7MFD 300V | 7 | 300 | 300 | 75430 | GECAP-7/300V-D | | GECAP-7/300V-D | 86635 | HPS150-3A | |
| | S62 | 70 | 78534 | GES70TRILC3-5 | 1- 70w HPS S62 Quad (120/208/240/277V) | 7MFD 300V | 7 | 300 | 300 | 75430 | GECAP-7/300V-D | | GECAP-7/300V-D | 86635 | HPS150-3A | |
| | S54 | 100 | 87068 | GES10048TLC3D-5 | 1- 100w HPS S54 480V | 10MFD 280V | 10 | 280 | 280 | 75433 | GECAP-10/400V-O | | 005-1184-MF | 86635 | HPS150-3A | |
| | S54 | 100 | 87074 | GES100MLTLC3D-5 | 1- 100w HPS S54 Quad (120/208/240/277V) | 10MFD 280V | 10 | 280 | 280 | 75433 | GECAP-10/400V-O | | 005-1184-MF | 86635 | HPS150-3A | |
| | S54 | 100 | 78535 | GES100TRILC3-5/2 | 1- 100w HPS S54 Quad (120/208/240/277V) | 10MFD 300V | 10 | 300 | 280 | 75433 | GECAP-10/400V-O | 277V | 005-1184-MF | 86635 | HPS150-3A | |
| | S55 | 150 | 86606 | 1233154U000I | 1- 150w S55 120 Reactor-NPF | Internal | | | | | | | | | | Internal |
| | S55 | 150 | 87087 | GES15048TLC3D-5 | 1- 150w HPS S55 480V | 14MFD 280V | 14 | 280 | 280 | 75669 | GECAP-14/280V-D | | GECAP-14/280V-D | 86635 | HPS150-3A | |
| | S55 | 150 | 87094 | GES150MLTLC3D-5 | 1- 150w HPS S55 Quad (120/208/240/277V) | 14MFD 280V | 14 | 280 | 280 | 75669 | GECAP-14/280V-D | | GECAP-14/280V-D | 86635 | HPS150-3A | |
| | S55 | 150 | 78536 | GES150TRILC3-5 | 1- 150w HPS S55 Quad (120/208/240/277V) | 14MFD 300V | 14 | 300 | 280 | 75669 | GECAP-14/280V-D | 277V | GECAP-14/280V-D | 86635 | HPS150-3A | |
| | S50 | 250 | 87214 | GES250MLSAC4-5 | 1- 250w HPS S50 5-Tap (120/208/240/277/480V) | 35MFD 240V | 35 | 240 | 240 | 75422 | GECAP-35/240V-O | | GECAP-35/240V-O | 86641 | HPS400-3A | |
| | S50 | 250 | 87121 | GES250MLTAC4-5 | 1- 250w HPS S50 Quad (120/208/240/277V) | 35MFD 240V | 35 | 240 | 240 | 75422 | GECAP-35/240V-O | | GECAP-35/240V-O | 86641 | HPS400-3A | |
| | S50 | 250 | 78537 | GES250TRIAC4-5 | 1- 250w HPS S50 Quad (120/208/240/277V) | 33MFD 300V | 33 | 300 | 240 | 75422 | | 240 | GECAP-35/240V-O | 86641 | HPS400-3A | |
| | S51 | 400 | 87198 | GES40048TAC4-5 | 1- 400w HPS S51 480V in smaller frame | 55MFD 240V | 55 | 240 | 240 | 75423 | GECAP-55/240V-O | | GECAP-55/240V-O | 86641 | HPS400-3A | |
| | S51 | 400 | 87215 | GES400MLSAC4-5 | 1- 400w HPS S51 5-Tap (120/208/240/277/480V) | 55MFD 240V | 55 | 240 | 240 | 75423 | GECAP-55/240V-O | | GECAP-55/240V-O | 86641 | HPS400-3A | |
| | S51 | 400 | 87164 | GES400MLTAC4-5 | 1- 400w HPS S51 Quad (120/208/240/277V) | 55MFD 240V | 55 | 240 | 240 | 75423 | GECAP-55/240V-O | | GECAP-55/240V-O | 86641 | HPS400-3A | |
| | S51 | 400 | 78539 | GES400TRIAC4-5 | 1- 400w HPS S51 Quad (120/208/240/277V) | 55MFD 300V | 55 | 300 | 240 | 75423 | GECAP-55/240V-O | 240 | GECAP-55/240V-O | 86641 | HPS400-3A | |
| | S52 | 1000 | 87048 | GES100048TAC5-5 | 1- 1000w HPS S52 480V | 26MFD 525V | 26 | 525 | 525 | 75437 | GECAP-26/525V-O | | GECAP-26/525V-O | 75439 | HPS1000-4B | |
| | S52 | 1000 | 87218 | GES1000MLSAC5-5 | 1- 1000w HPS S52 5-Tap (120/208/240/277/480V) | 26MFD 525V | 26 | 525 | 525 | 75437 | GECAP-26/525V-O | | GECAP-26/525V-O | 75439 | HPS1000-4B | |
| | S52 | 1000 | 87056 | GES1000MLTAC5-5 | 1- 1000w HPS S52 Quad (120/208/240/277V) | 26MFD 525V | 26 | 525 | 525 | 75437 | GECAP-26/525V-O | | GECAP-26/525V-O | 75439 | HPS1000-4B | |
| | S52 | 1000 | 78540 | GES1000TRIAC5-5 | 1- 1000w HPS S52 Quad (120/208/240/277V) | 26MFD 540V | 26 | 540 | 525 | 75437 | GECAP-26/525V-O | 520 | GECAP-26/525V-O | 75439 | HPS1000-4B | |
| Mercury | H39 | 175 | 87210 | GEM175MLSAC3-5 | 1- 175w MH M 57 or H 39 5-Tap (120/208/240/277/480V) | 10MFD 400V | 10 | 400 | 400 | 75433 | GECAP-10/400V-O | | 005-1184-MF | | N/A | |
| | H39 | 175 | 86741 | GEM175MLTAC3-5 | 1- 175w MH M 57 or H 39 Quad (120/208/240/277V) | 10MFD 400V | 10 | 400 | 400 | 75433 | GECAP-10/400V-O | | 005-1184-MF | | N/A | |
| | H37 | 250 | 87211 | GEM250MLSAC3-5 | 1- 250w MH M 58 or H 37 5-Tap (120/208/240/277/480V) | 15MFD 400V | 15 | 400 | 400 | 75434 | GECAP-15/400V-O | | 005-1185-MF | | N/A | |
| | H37 | 250 | 87212 | GEM250MLSAC4-5 | 1- 250w MH M 58 or H 37 5-Tap (120/208/240/277/480V) | 15MFD 400V | 15 | 400 | 400 | 75434 | GECAP-15/400V-O | | 005-1185-MF | | N/A | |
| | H37 | 250 | 86765 | GEM250MLTAC3-5 | 1- 250w MH M 58 or H 37 Quad (120/208/240/277V) | 15MFD 400V | 15 | 400 | 400 | 75434 | GECAP-15/400V-O | | 005-1185-MF | | N/A | |
| | H33 | 400 | 86803 | GEM40048TAC4-5 | 1- 400w MH M 59 or H 33 480 | 24MFD 400V | 24 | 400 | 400 | 75435 | GECAP-24/400V-O | | 005-2779-MF | | N/A | |
| | H33 | 400 | 72300 | GEM400MLSAA4-5 | 1- 400w MH M59 or H33 5-Tap (120/208/240/277/480V) Al C&C | 24MFD 400V | 24 | 400 | 360 | 75435 | GECAP-24/400V-O | | 005-2779-MF | | N/A | |
| | H33 | 400 | 72149 | GEM400MLTAA4-5 | 1- 400w MH M 59 or H 33 Quad (120/208/240/277V) Al C&C | 24MFD 400V | 24 | 400 | 400 | 75435 | GECAP-24/400V-O | | 005-2779-MF | | N/A | |
| | H36 | 1000 | 86650 | GEM100048TAC5-5 | 1- 1000w MH M 47 or H 36 480 | 24MFD 480V | 24 | 480 | 480 | 75668 | GECAP-24/480V-O | | 005-2779-MF | | N/A | |
| | H36 | 1000 | 87213 | GEM1000MLSAC5-5 | 1- 1000w MH M 47 or H 36 5-Tap (120/208/240/277/480V) | 24MFD 480V | 24 | 480 | 480 | 75668 | GECAP-24/480V-O | | 005-2779-MF | | N/A | |
| | H36 | 1000 | 86655 | GEM1000MLTAC5-5 | 1- 1000w MH M 47 or H 36 Quad (120/208/240/277V) | 24MFD 480V | 24 | 480 | 480 | 75668 | GECAP-24/480V-O | | 005-2779-MF | | N/A | |

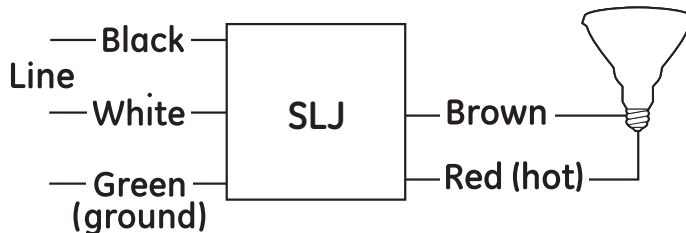
Wiring Diagrams

HID Electronic Ballasts

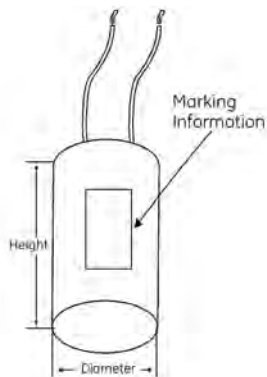
WD-eHID MLF/MSF



WD-eHID-SLJ

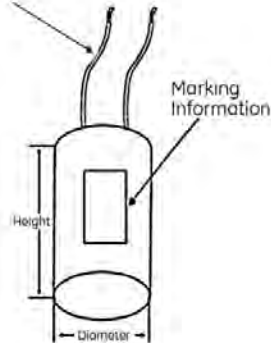


Igniter



HID Lighting Capacitor

8 ± 3/8 inch, 18 gauge standard wire
 150°C EPDM insulated
 38 ± 0.08 inch stripped end
 UL recognized



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

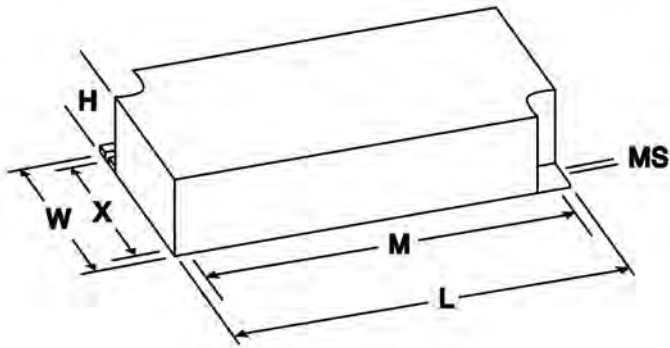
Compact Fluorescent

HID Electronic & Electromagnetic

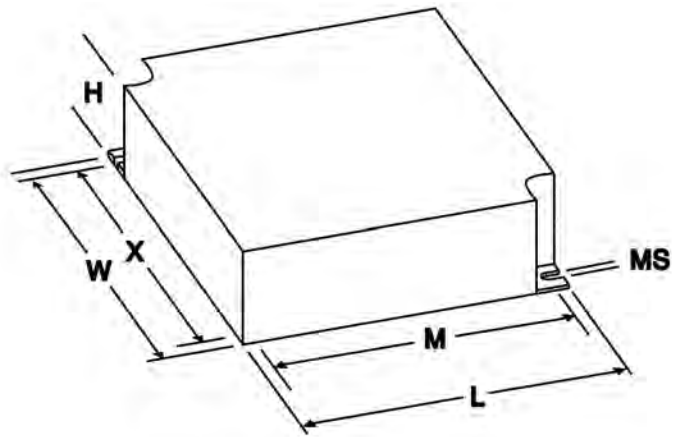
Case Dimensions

HID Electronic Ballasts

MLF



MSF



SLJ

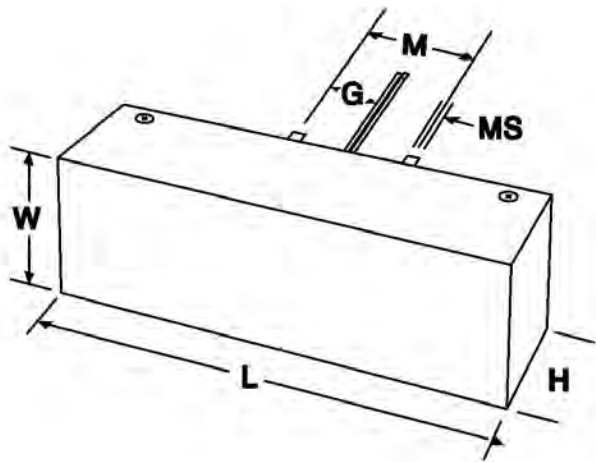


Fig. 2

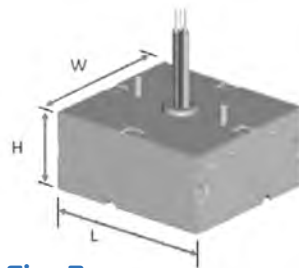
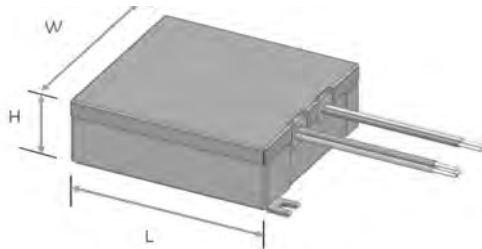


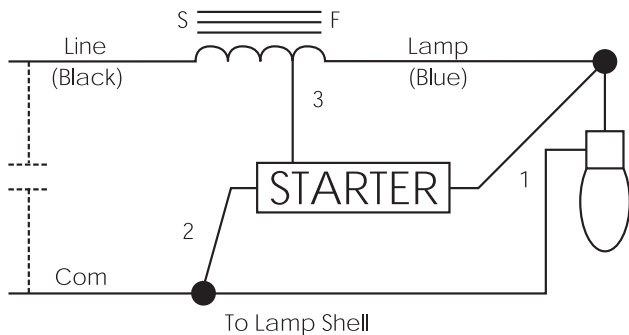
Fig. 3



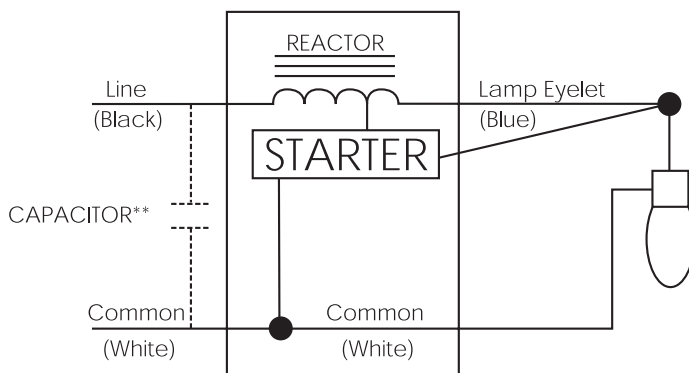
Wiring Diagrams

HID Electromagnetic Ballasts

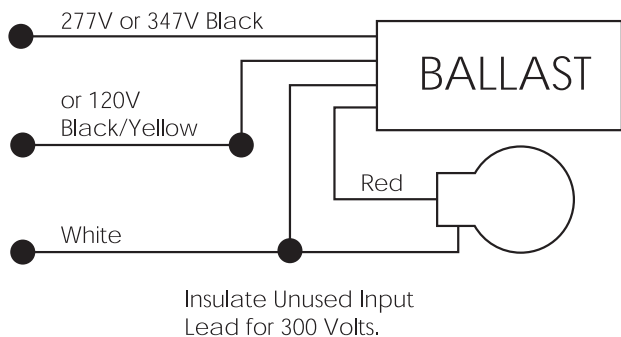
HID H1



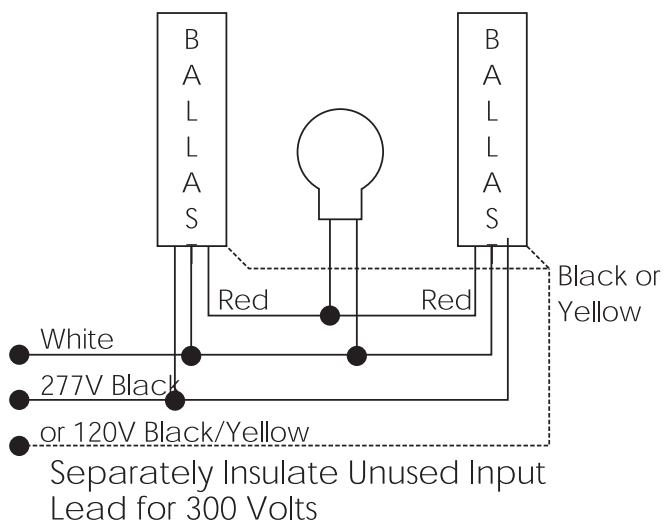
HID H1a



HID H34



HID H36



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

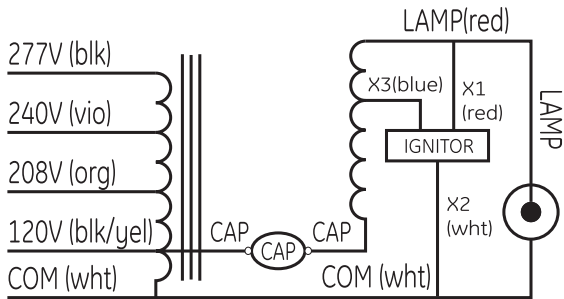
Compact Fluorescent

HID Electronic & Electromagnetic

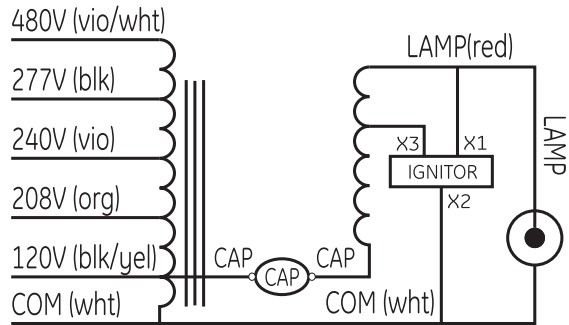
Wiring Diagrams

HID Electromagnetic Ballasts

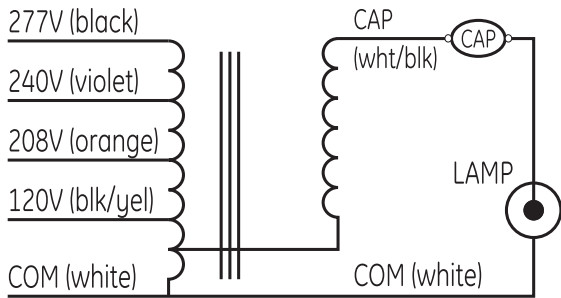
HID W-(A)



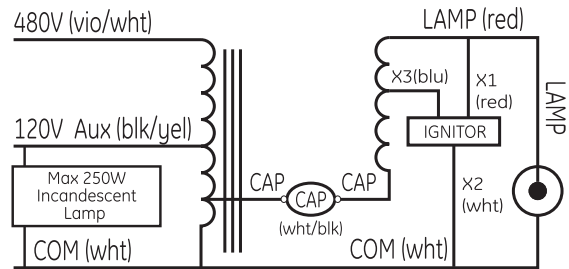
HID W-(B)



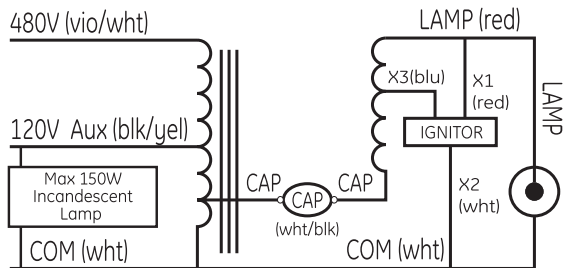
HID W-(C)



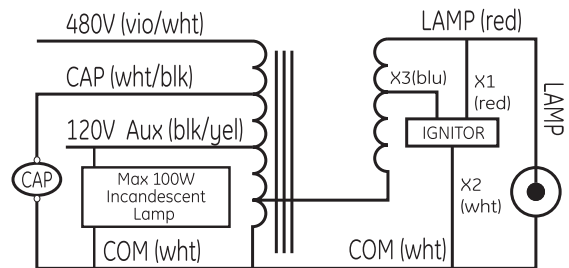
HID W-(D)



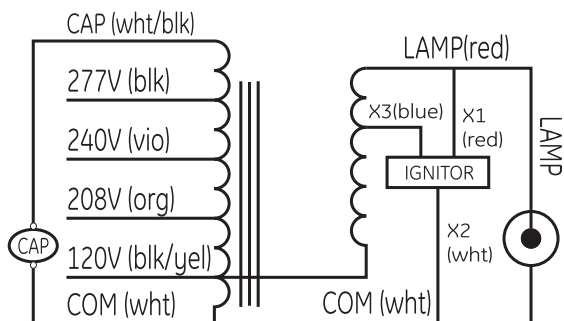
HID W-(E)



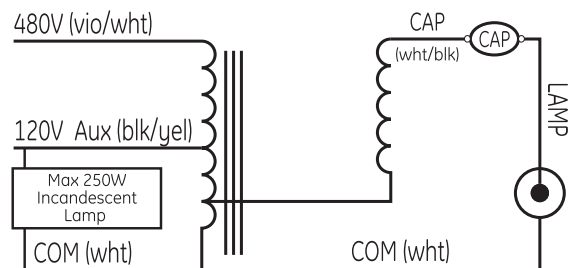
HID W-(F)



HID W-(H)



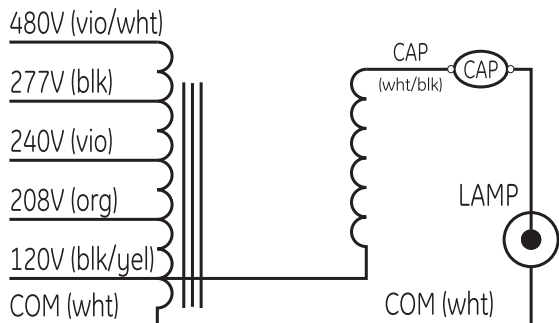
HID W-(J)



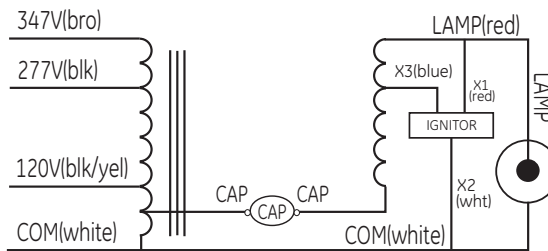
Wiring Diagrams

HID Electromagnetic Ballasts

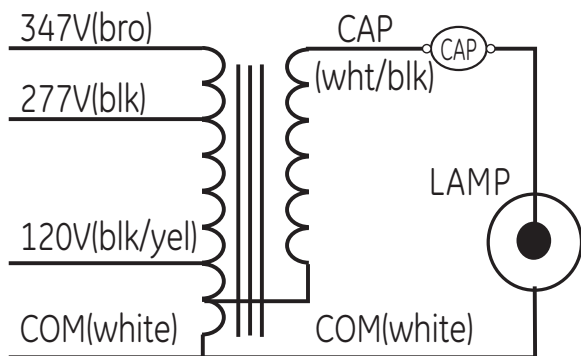
HID W-(K)



HID W-(L)



HID W-(M)



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

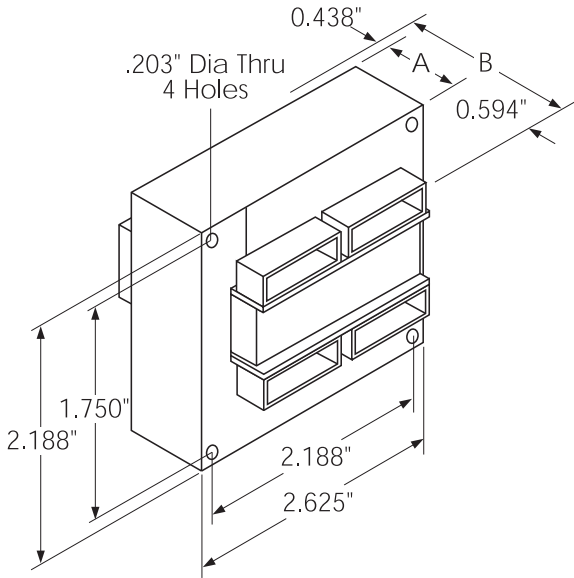
Compact Fluorescent

HID Electronic & Electromagnetic

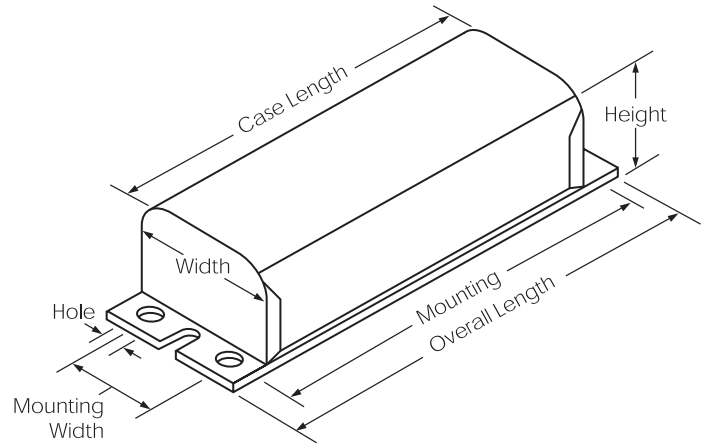
Case Dimensions

HID Electromagnetic Ballasts

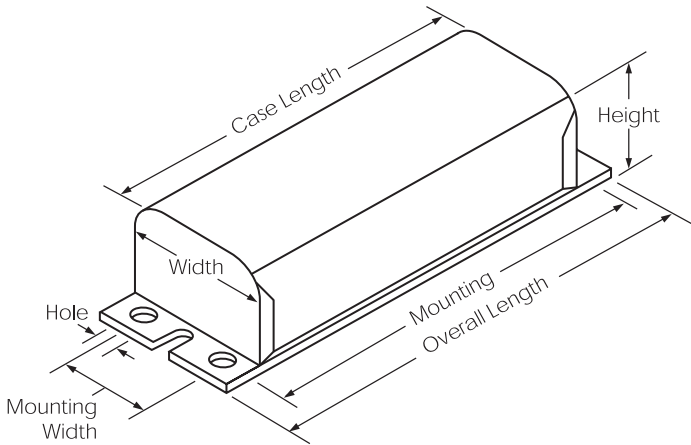
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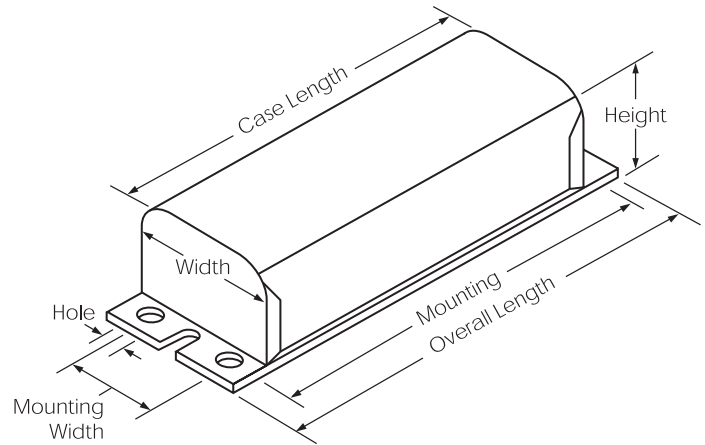
FCAN1



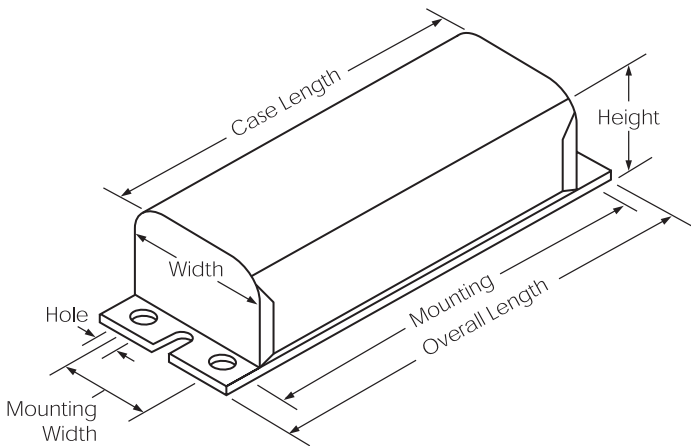
FCAN2



FCAN3



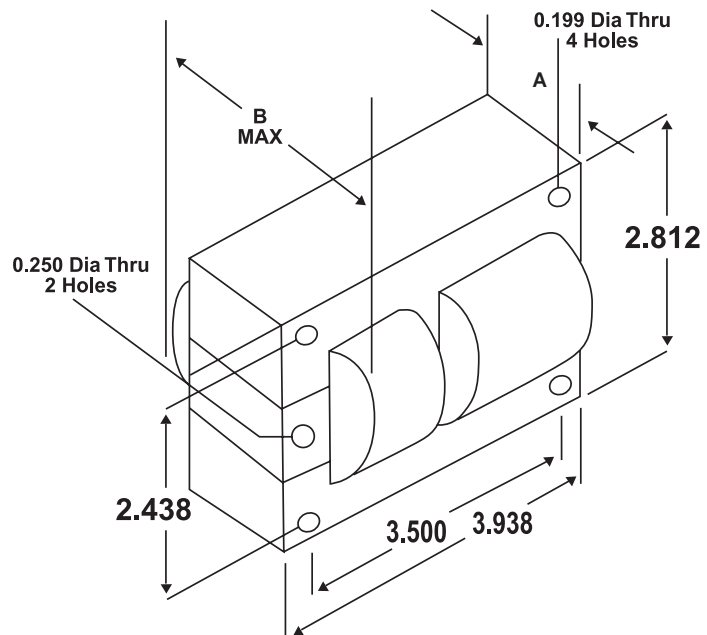
FCAN4



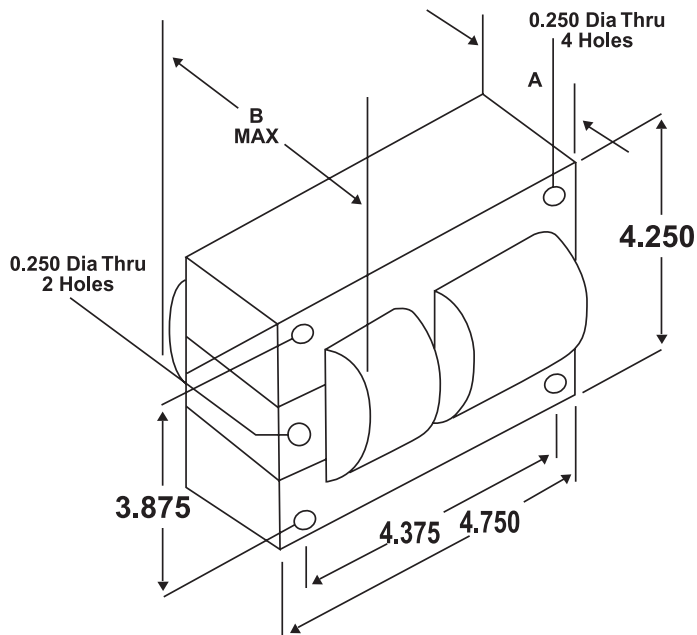
Case Dimensions

HID Electromagnetic Ballasts

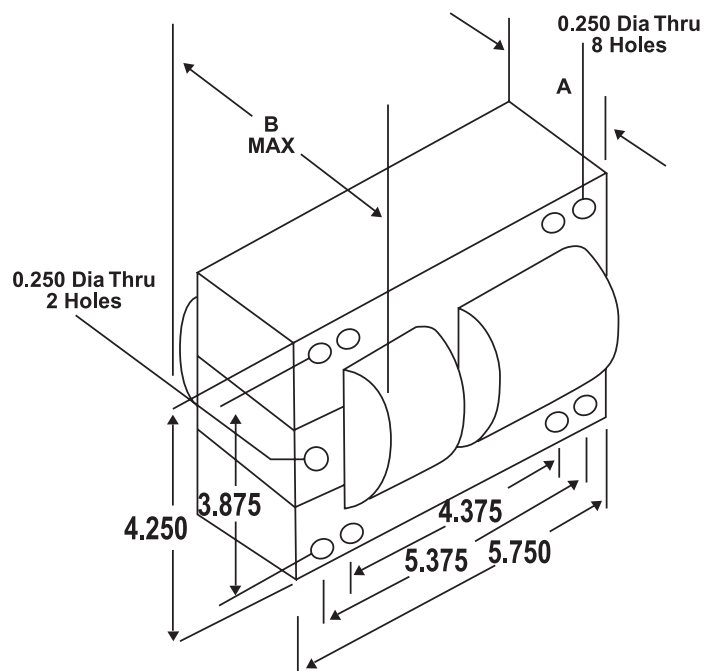
PC1



PC2



PC3



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

Table of Contents

LED Drivers and Halogen Transformers

| | |
|--|-------|
| GE Lightech™ LED Drivers and Halogen Transformers..... | 19-2 |
| Halogen Transformers | 19-3 |
| LED Drivers - Constant Current..... | 19-15 |
| LED Drivers - Constant Voltage | 19-23 |
| Wiring Diagrams..... | 19-30 |



GE Lighttech™ LED Drivers and Halogen Transformers

One of the most trusted names in lighting is now powering even more innovative lighting solutions. We've combined our leadership, knowledge and experience to bring you effective, reliable GE Lighttech™ LED Drivers and Halogen Transformers. Create next-generation lighting systems that push the boundaries of performance and redefine efficiency. Plus, you'll receive the convenience and ease of getting your drivers and transformers from the same source as your lamps and ballasts.

Key applications include signage, architectural, downlight, track lighting and much more.

Full Phase Control Dimmable Drivers

- Dimmable with most LEADING EDGE (Triac) and TRAILING EDGE (ELV) dimmers
- Deep dimming to 1%
- Wide power range (4-36W)
- High power factor
- Efficient
- Side Lead and Bottom Feed versions available
- cULus Recognized, Class 2, 47 CFR Part 15, Class B (Consumer)

Trailing Edge Dimmable Drivers

- Dimmable with TRAILING EDGE (ELV) dimmers
- Dimming to 10%
- Wide power range (4-36W)
- Universal input voltage (120-277V)
- High power factor
- Highly efficient
- Side Lead and Bottom Feed versions available
- Small case size
- cULus Recognized, Class 2, 47 CFR Part 15, Class B (Consumer)

Low-voltage Halogen Electronic Transformers

GE Lighttech™ transformers offer outstanding dependability and efficiency, from smarter technology to longer life cycles, and everything in between. Features include:

- Utilizes a unique Auto-Thermal Regulation process – proportional dimming of output voltage over 90°C
- Self-preserving 125°C Thermal Cut-off
- Embedded technology to run cool with higher efficiency – 95% at full load
- Field-effect transistors – resulting in higher efficiency, smaller size and longer life than products with bipolar transistors

Halogen Transformers

LED Drivers and Halogen Transformers

66961 –

Halogen Transformer

60W Class 2 Plug-In Electronic Transformer. 12V. Black.

| General characteristics | |
|--------------------------|------------------------|
| Output Type | AC, Class 2 compliance |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.96 |
| Efficiency (%) | 90 |
| Output voltage (V) | 11.5 |
| Output Wattage Range (W) | 20-60 |
| Dimmability | - |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

66962 –

Halogen Transformer

60W Class 2 Plug-In Electronic Transformer. 12V. White.

| General characteristics | |
|--------------------------|------------------------|
| Output Type | AC, Class 2 compliance |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.96 |
| Efficiency (%) | 90 |
| Output voltage (V) | 11.5 |
| Output Wattage Range (W) | 20-60 |
| Dimmability | - |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

66936 –

Halogen Transformer

60W Class 2 Electronic Transformer. 12V. Bottom Feed.

| General characteristics | |
|--------------------------|------------------------|
| Output Type | AC, Class 2 compliance |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.96 |
| Efficiency (%) | 95 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-60 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example C on page 19-30

| | |
|-------------------------|---------|
| Casing length (in) | 3.94 |
| Casing width (in) | 1.5 |
| Casing height (in) | 2.2 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.53 |
| Lead Exit Type | Plug-In |
| Input wire length (in) | - |
| Output wire length (in) | 120 |

Dimensions

Wiring diagram – see example C on page 19-30

| | |
|-------------------------|---------|
| Casing length (in) | 3.94 |
| Casing width (in) | 1.5 |
| Casing height (in) | 2.2 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.53 |
| Lead Exit Type | Plug-In |
| Input wire length (in) | - |
| Output wire length (in) | 120 |

Dimensions

Wiring diagram – see example A on page 19-30

| | |
|-------------------------|--------|
| Casing length (in) | 2.36 |
| Casing width (in) | 1.32 |
| Casing height (in) | 0.87 |
| Mounting Dims (in) | 2.0 |
| Weight (lb) | 0.22 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 6.7 |
| Output wire length (in) | 5.5 |

Halogen Transformers

LED Drivers and Halogen Transformers

66937 –

Halogen Transformer

60W Class 2 Electronic Transformer. 12V.

| General characteristics | |
|--------------------------|------------------------|
| Output Type | AC, Class 2 compliance |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.96 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-60 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

| Dimensions | |
|--|------|
| Wiring diagram – see example A on page 19-30 | |
| Casing length (in) | 2.09 |
| Casing width (in) | 1.30 |
| Casing height (in) | 0.79 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.9 |
| Output wire length (in) | 5.5 |

66938 –

Halogen Transformer

60W Class 2 Electronic Transformer. 11.7V. 2.5W minimum load.

| General characteristics | |
|--------------------------|------------------------|
| Output Type | AC, Class 2 compliance |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.96 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 2.5-60 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

| Dimensions | |
|--|------|
| Wiring diagram – see example A on page 19-30 | |
| Casing length (in) | 2.09 |
| Casing width (in) | 1.3 |
| Casing height (in) | 0.79 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.9 |
| Output wire length (in) | 5.5 |

66939 –

Halogen Transformer

60W Class 2 Electronic Transformer. 12V. Dimming Loop.

| General characteristics | |
|--------------------------|------------------------|
| Output Type | AC, Class 2 compliance |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 60 |
| Power Factor Correction | 0.96 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-60 |
| Dimmability | 0-10V |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

| Dimensions | |
|--|------|
| Wiring diagram – see example D on page 19-30 | |
| Casing length (in) | 2.09 |
| Casing width (in) | 1.3 |
| Casing height (in) | 0.79 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.7 |
| Output wire length (in) | 5.5 |

Halogen Transformers

LED Drivers and Halogen Transformers

66940 –

Halogen Transformer

60W Class 2 Electronic Transformer. 12V. Potentiometer on Dimming Loop.

| General characteristics | |
|--------------------------|------------------------|
| Output Type | AC, Class 2 compliance |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 60 |
| Power Factor Correction | 0.96 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-60 |
| Dimmability | 0-10V |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example D on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 2.09 |
| Casing width (in) | 1.3 |
| Casing height (in) | 0.79 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.7 |
| Output wire length (in) | 5.5 |

66943 –

Halogen Transformer

60W Class 2 Electronic Transformer. 12V. Ground Wire. Double-Sided Tape.

| General characteristics | |
|--------------------------|------------------------|
| Output Type | AC, Class 2 compliance |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 60 |
| Power Factor Correction | 0.96 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-60 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example E on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 2.09 |
| Casing width (in) | 1.30 |
| Casing height (in) | 0.79 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.9 |
| Output wire length (in) | 5.5 |

66963 –

Halogen Transformer

60W Class 2 Electronic Transformer. 12V. In Secondary Housing.

| General characteristics | |
|--------------------------|------------------------|
| Output Type | AC, Class 2 compliance |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.96 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-60 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example A on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.5 |
| Casing width (in) | 1.7 |
| Casing height (in) | 1.42 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.75 |
| Lead Exit Type | Side |
| Input wire length (in) | - |
| Output wire length (in) | - |

Halogen Transformers

LED Drivers and Halogen Transformers

66945 –

Halogen Transformer

75W Electronic Transformer. 12V.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | 95 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-75 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

66967 –

Halogen Transformer

75W Electronic Transformer. Mounting Tab.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | 95 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-75 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

66946 –

Halogen Transformer

75W Electronic Transformer. 12V. Bottom Feed.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | 95 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-75 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

| Dimensions | |
|--|------|
| Wiring diagram – see example A on page 19-30 | |
| Casing length (in) | 2.1 |
| Casing width (in) | 1.3 |
| Casing height (in) | 0.79 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.9 |
| Output wire length (in) | 5.5 |

| Dimensions | |
|--|------|
| Wiring diagram – see example A on page 19-30 | |
| Casing length (in) | 2.4 |
| Casing width (in) | 1.3 |
| Casing height (in) | 0.79 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.9 |
| Output wire length (in) | 5.9 |

| Dimensions | |
|--|--------|
| Wiring diagram – see example A on page 19-30 | |
| Casing length (in) | 2.36 |
| Casing width (in) | 1.32 |
| Casing height (in) | 0.87 |
| Mounting Dims (in) | 2.0 |
| Weight (lb) | 0.22 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 7.3 |
| Output wire length (in) | 5.5 |

Halogen Transformers

LED Drivers and Halogen Transformers

66947 –

Halogen Transformer

75W Electronic Transformer. 12V. Ground Wire.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | 95 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-75 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example E on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 2.1 |
| Casing width (in) | 1.3 |
| Casing height (in) | 0.79 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.9 |
| Output wire length (in) | 5.5 |

66948 –

Halogen Transformer

75W Electronic Transformer. 12V. Double-Sided Tape.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | 95 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-75 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example A on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 2.1 |
| Casing width (in) | 1.3 |
| Casing height (in) | 0.79 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.9 |
| Output wire length (in) | 5.5 |

66951 –

Halogen Transformer

75W Electronic Transformer. 24V.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | 95 |
| Output voltage (V) | 23.2 |
| Output Wattage Range (W) | 20-75 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example F on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 2.1 |
| Casing width (in) | 1.3 |
| Casing height (in) | 0.79 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 6.0 |
| Output wire length (in) | 6.0 |

Halogen Transformers

LED Drivers and Halogen Transformers

66952 –

Halogen Transformer

75W Electronic Transformer. 12V. Increased EMI Filtering.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 10-75 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

66953 –

Halogen Transformer

75W Electronic Transformer. 12V. Increased EMI Filtering. Bottom Feed.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 10-75 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

68662 –

Halogen Transformer

75W Electronic Transformer. 12V. Black.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 240 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.7 |
| Output Wattage Range (W) | 20-75 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 85 |

| Dimensions | |
|--|------|
| Wiring diagram – see example A on page 19-30 | |
| Casing length (in) | 2.52 |
| Casing width (in) | 1.34 |
| Casing height (in) | 0.83 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.7 |
| Output wire length (in) | 8.7 |

| Dimensions | |
|--|--------|
| Wiring diagram – see example A on page 19-30 | |
| Casing length (in) | 3.48 |
| Casing width (in) | 1.44 |
| Casing height (in) | 1.15 |
| Mounting Dims (in) | 2.0 |
| Weight (lb) | 0.24 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 6.3 |
| Output wire length (in) | 6.3 |

| Dimensions | |
|--|------|
| Wiring diagram – see example G on page 19-30 | |
| Casing length (in) | 2.52 |
| Casing width (in) | 1.34 |
| Casing height (in) | 0.83 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.1 |
| Output wire length (in) | 7.7 |

Halogen Transformers

LED Drivers and Halogen Transformers

66954 –

Halogen Transformer

75W Electronic Transformer. 12V. 277V Input.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 277 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | - |
| Output voltage (V) | 11.5 |
| Output Wattage Range (W) | 35-75 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example H on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 2.52 |
| Casing width (in) | 1.34 |
| Casing height (in) | 0.83 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.25 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.1 |
| Output wire length (in) | 9.1 |

66955 –

Halogen Transformer

75W Electronic Transformer. 12V. 277V Input. Bottom Feed.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 277 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | - |
| Output voltage (V) | 11.5 |
| Output Wattage Range (W) | 35-75 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example H on page 19-30

| | |
|-------------------------|--------|
| Casing length (in) | 3.48 |
| Casing width (in) | 1.44 |
| Casing height (in) | 1.15 |
| Mounting Dims (in) | 2.0 |
| Weight (lb) | 0.26 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 6.3 |
| Output wire length (in) | 6.3 |

66956 –

Halogen Transformer

105W Electronic Transformer. 12V.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.5 |
| Output Wattage Range (W) | 20-100 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example A on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 3.15 |
| Casing width (in) | 1.35 |
| Casing height (in) | 0.95 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.27 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.7 |
| Output wire length (in) | 7.3 |

Halogen Transformers

LED Drivers and Halogen Transformers

68663 –

Halogen Transformer

105W Electronic Transformer. 12V. 240V Input.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 240 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-105 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 85 |

| Dimensions | |
|--|------|
| Wiring diagram – see example G on page 19-30 | |
| Casing length (in) | 3.15 |
| Casing width (in) | 1.25 |
| Casing height (in) | 1.04 |
| Mounting Dims (in) | 3.53 |
| Weight (lb) | 0.29 |
| Lead Exit Type | Side |
| Input wire length (in) | 6.7 |
| Output wire length (in) | 6.7 |

66957 –

Halogen Transformer

150W Electronic Transformer. 12V. Bottom Feed.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.98 |
| Efficiency (%) | 93 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 50-150 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 85 |

| Dimensions | |
|--|--------|
| Wiring diagram – see example A on page 19-30 | |
| Casing length (in) | 3.31 |
| Casing width (in) | 1.38 |
| Casing height (in) | 1.61 |
| Mounting Dims (in) | 4.13 |
| Weight (lb) | 0.42 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 6.3 |
| Output wire length (in) | 6.3 |

66958 –

Halogen Transformer

150W Electronic Transformer. 12V.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.98 |
| Efficiency (%) | 93 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 50-150 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 85 |

| Dimensions | |
|--|------|
| Wiring diagram – see example A on page 19-30 | |
| Casing length (in) | 3.44 |
| Casing width (in) | 1.38 |
| Casing height (in) | 1.22 |
| Mounting Dims (in) | 3.62 |
| Weight (lb) | 0.42 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.1 |
| Output wire length (in) | 9.1 |

Halogen Transformers

LED Drivers and Halogen Transformers

66970 –

Halogen Transformer

150W Electronic Transformer. 24V.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.98 |
| Efficiency (%) | 93 |
| Output voltage (V) | 23 |
| Output Wattage Range (W) | 50-150 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 85 |

Dimensions

Wiring diagram – see example F on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 3.44 |
| Casing width (in) | 1.38 |
| Casing height (in) | 1.22 |
| Mounting Dims (in) | 3.62 |
| Weight (lb) | 0.42 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.1 |
| Output wire length (in) | 9.1 |

66969 –

Halogen Transformer

150W Electronic Transformer. 12V. In Secondary Housing.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.98 |
| Efficiency (%) | 93 |
| Output voltage (V) | 11.5 |
| Output Wattage Range (W) | 50-150 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 85 |

Dimensions

Wiring diagram – see example A on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 9.35 |
| Casing width (in) | 1.82 |
| Casing height (in) | 1.4 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.95 |
| Lead Exit Type | Side |
| Input wire length (in) | - |
| Output wire length (in) | - |

66972 –

Halogen Transformer

150W Electronic Transformer. 24V. In Secondary housing.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.98 |
| Efficiency (%) | 93 |
| Output voltage (V) | 23 |
| Output Wattage Range (W) | 50-150 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +40 |
| Case Temperature (°C) | 85 |

Dimensions

Wiring diagram – see example F on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 9.35 |
| Casing width (in) | 1.82 |
| Casing height (in) | 1.4 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.95 |
| Lead Exit Type | Side |
| Input wire length (in) | - |
| Output wire length (in) | - |

Halogen Transformers

LED Drivers and Halogen Transformers

68664 –

Halogen Transformer

150W Class 2 Electronic Transformer. 12V.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 240 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | - |
| Output voltage (V) | 11.5 |
| Output Wattage Range (W) | 50-150 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 10 to +45 |
| Case Temperature (°C) | 85 |

| Dimensions | |
|--|------|
| Wiring diagram – see example G on page 19-30 | |
| Casing length (in) | 4.25 |
| Casing width (in) | 1.26 |
| Casing height (in) | 1.14 |
| Mounting Dims (in) | 4.72 |
| Weight (lb) | 0.37 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.3 |
| Output wire length (in) | 7.3 |

66960 –

Halogen Transformer

200W Electronic Transformer. 12V. Increased EMI Filtering.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.98 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.5 |
| Output Wattage Range (W) | 50-200 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

| Dimensions | |
|--|------|
| Wiring diagram – see example A on page 19-30 | |
| Casing length (in) | 4.33 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.24 |
| Mounting Dims (in) | 4.61 |
| Weight (lb) | 0.66 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.1 |
| Output wire length (in) | 9.0 |

66973 –

Halogen Transformer

300W Electronic Transformer. 12V. Round.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 60 |
| Power Factor Correction | 0.99 |
| Efficiency (%) | 95.5 |
| Output voltage (V) | 11.8 |
| Output Wattage Range (W) | 50-300 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

| Dimensions | |
|--|------|
| Wiring diagram – see example A on page 19-30 | |
| Casing length (in) | 3.62 |
| Casing width (in) | - |
| Casing height (in) | 1.26 |
| Mounting Dims (in) | - |
| Weight (lb) | 1.03 |
| Lead Exit Type | Side |
| Input wire length (in) | 6.5 |
| Output wire length (in) | 6.5 |

Halogen Transformers

LED Drivers and Halogen Transformers

66975 –

Halogen Transformer

300W Electronic Transformer. 12V.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 60 |
| Power Factor Correction | 0.99 |
| Efficiency (%) | 95.5 |
| Output voltage (V) | 11.8 |
| Output Wattage Range (W) | 50-300 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example A on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.02 |
| Casing width (in) | 1.54 |
| Casing height (in) | 1.12 |
| Mounting Dims (in) | 5.51 |
| Weight (lb) | 0.74 |
| Lead Exit Type | Side |
| Input wire length (in) | 6.9 |
| Output wire length (in) | 6.9 |

66977 –

Halogen Transformer

300W Electronic Transformer. 24V.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 60 |
| Power Factor Correction | 0.99 |
| Efficiency (%) | 95.5 |
| Output voltage (V) | 24 |
| Output Wattage Range (W) | 50-300 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example F on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.02 |
| Casing width (in) | 1.54 |
| Casing height (in) | 1.12 |
| Mounting Dims (in) | 5.51 |
| Weight (lb) | 0.74 |
| Lead Exit Type | Side |
| Input wire length (in) | 6.9 |
| Output wire length (in) | 6.9 |

66979 –

Halogen Transformer

300W Electronic Transformer. 12V. In Secondary Housing.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 60 |
| Power Factor Correction | 0.99 |
| Efficiency (%) | 95.5 |
| Output voltage (V) | 11.8 |
| Output Wattage Range (W) | 50-300 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example A on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 9.35 |
| Casing width (in) | 1.82 |
| Casing height (in) | 1.4 |
| Mounting Dims (in) | - |
| Weight (lb) | 1.5 |
| Lead Exit Type | Side |
| Input wire length (in) | - |
| Output wire length (in) | - |

Halogen Transformers

LED Drivers and Halogen Transformers

66980 –

Halogen Transformer

300W Electronic Transformer. 24V. In Secondary Housing.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 60 |
| Power Factor Correction | 0.99 |
| Efficiency (%) | 95.5 |
| Output voltage (V) | 24 |
| Output Wattage Range (W) | 50-300 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

66978 –

Halogen Transformer

360W Class 2 Electronic Transformer. 12V. 6 x 60W.

| General characteristics | |
|--------------------------|------------------------|
| Output Type | AC, Class 2 compliance |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.96 |
| Efficiency (%) | 95 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-360 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

68665 –

Halogen Transformer

Line Filter. EMI Filter. In-line.

| General characteristics | |
|--------------------------|------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | - |
| Efficiency (%) | - |
| Inductance (mH) | 15 |
| Output Wattage Range (W) | - |
| Dimmability | - |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

| Dimensions | |
|--|------|
| Wiring diagram – see example F on page 19-30 | |
| Casing length (in) | 9.35 |
| Casing width (in) | 1.82 |
| Casing height (in) | 1.4 |
| Mounting Dims (in) | - |
| Weight (lb) | 1.5 |
| Lead Exit Type | Side |
| Input wire length (in) | - |
| Output wire length (in) | - |

| Dimensions | |
|--|------|
| Wiring diagram – see example I on page 19-30 | |
| Casing length (in) | 8.27 |
| Casing width (in) | 4.72 |
| Casing height (in) | 1.71 |
| Mounting Dims (in) | - |
| Weight (lb) | 2.43 |
| Lead Exit Type | Side |
| Input wire length (in) | - |
| Output wire length (in) | - |

| Dimensions | |
|--|------|
| Wiring diagram – see example J on page 19-30 | |
| Casing length (in) | 1.3 |
| Casing width (in) | 1.18 |
| Casing height (in) | 0.74 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.13 |
| Lead Exit Type | Side |
| Input wire length (in) | 2.2 |
| Output wire length (in) | 2.2 |

LED Drivers - Constant Current

LED Drivers and Halogen Transformers

66866 –

Constant Current, Class 2 Compliance

6W LED Driver. 700mA. Non-Dimming.

| General characteristics | |
|------------------------------|----------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 70 |
| Output Type | DC |
| Output Current (mA) | 700 |
| Output Voltage Range (V) | 2.0-11.0 |
| Output Wattage Range (W) | 1.4-7.7 |
| Dimmability | None |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 71 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 1.77 |
| Casing width (in) | 1.77 |
| Casing height (in) | 0.98 |
| Mounting Dims (in) | 2.05 |
| Weight (lb) | 0.25 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.1 |
| Output wire length (in) | 8.1 |

66867 –

Constant Current, Class 2 Compliance

10W LED Driver. 350mA. Non-Dimming. Terminal Blocks.

| General characteristics | |
|------------------------------|----------|
| Input Voltage (V) | 100-240 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 78 |
| Output Type | DC |
| Output Current (mA) | 350 |
| Output Voltage Range (V) | 2.3-28.0 |
| Output Wattage Range (W) | 0.81-9.8 |
| Dimmability | None |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example B on page 19-30

| | |
|-------------------------|-----------|
| Casing length (in) | 3.94 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.05 |
| Mounting Dims (in) | 3.54x1.18 |
| Weight (lb) | 0.21 |
| Lead Exit Type | Terminals |
| Input wire length (in) | - |
| Output wire length (in) | - |

66868 –

Constant Current, Class 2 Compliance

10W LED Driver. 700mA. Non-Dimming.

| General characteristics | |
|------------------------------|-----------|
| Input Voltage (V) | 100-240 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 68 |
| Output Type | DC |
| Output Current (mA) | 700 |
| Output Voltage Range (V) | 2.3-15.0 |
| Output Wattage Range (W) | 1.61-10.5 |
| Dimmability | None |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|-----------|
| Casing length (in) | 3.82 |
| Casing width (in) | 1.57 |
| Casing height (in) | 0.91 |
| Mounting Dims (in) | 3.62x1.18 |
| Weight (lb) | 0.39 |
| Lead Exit Type | Side |
| Input wire length (in) | 19.1 |
| Output wire length (in) | 19.1 |

LED Drivers - Constant Current

LED Drivers and Halogen Transformers

66863 –

Constant Current, Class 2 Compliance

1W LED Driver. 350mA. Non-Dimming.

| General characteristics | |
|------------------------------|---------|
| Input Voltage (V) | 100-240 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 50 |
| Output Type | DC |
| Output Current (mA) | 350 |
| Output Voltage Range (V) | 2.0-6.0 |
| Output Wattage Range (W) | 0.7-2.1 |
| Dimmability | None |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

66864 –

Constant Current, Class 2 Compliance

6W LED Driver. 350mA. Non-Dimming.

| General characteristics | |
|------------------------------|----------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 70 |
| Output Type | DC |
| Output Current (mA) | 350 |
| Output Voltage Range (V) | 2.0-20.0 |
| Output Wattage Range (W) | 0.7-7.0 |
| Dimmability | None |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 71 |

66865 –

Constant Current, Class 2 Compliance

6W LED Driver. 500mA. Non-Dimming.

| General characteristics | |
|------------------------------|----------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 70 |
| Output Type | DC |
| Output Current (mA) | 500 |
| Output Voltage Range (V) | 2.0-14.0 |
| Output Wattage Range (W) | 1.0-7.0 |
| Dimmability | None |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 71 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 1.34 |
| Casing width (in) | 1.26 |
| Casing height (in) | 0.98 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.14 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.7 |
| Output wire length (in) | 7.7 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 1.77 |
| Casing width (in) | 1.77 |
| Casing height (in) | 0.98 |
| Mounting Dims (in) | 2.05 |
| Weight (lb) | 0.25 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.1 |
| Output wire length (in) | 8.1 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 1.77 |
| Casing width (in) | 1.77 |
| Casing height (in) | 0.98 |
| Mounting Dims (in) | 2.05 |
| Weight (lb) | 0.25 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.1 |
| Output wire length (in) | 8.1 |

LED Drivers - Constant Current

LED Drivers and Halogen Transformers

66870 –

Constant Current, Class 2 Compliance

10W LED Driver. 350mA. Non-Dimming. In Secondary Housing.

| General characteristics | |
|------------------------------|----------|
| Input Voltage (V) | 120 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 78 |
| Output Type | DC |
| Output Current (mA) | 350 |
| Output Voltage Range (V) | 2.3-28.0 |
| Output Wattage Range (W) | 0.81-9.8 |
| Dimmability | None |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

66880 –

Constant Current, Class 2 Compliance

10W LED Driver. 350mA. Non-Dimming. Plug-In. White.

| General characteristics | |
|------------------------------|------------|
| Input Voltage (V) | 120 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 78 |
| Output Type | DC |
| Output Current (mA) | 350 |
| Output Voltage Range (V) | 2.3-2.9 |
| Output Wattage Range (W) | 0.81-10.15 |
| Dimmability | None |
| Ambient Temperature min (°C) | 10 |
| Ambient Temperature max (°C) | 35 |
| Case Temperature (°C) | 90 |

66871 –

Constant Current, Class 2 Compliance

18W LED Driver. 350mA. TE Dimming.

| General characteristics | |
|------------------------------|---------------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 85 |
| Output Type | DC |
| Output Current (mA) | 350 |
| Output Voltage Range (V) | 4.0-52.0 |
| Output Wattage Range (W) | 1.4-18.20 |
| Dimmability | Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.48 |
| Casing width (in) | 1.68 |
| Casing height (in) | 1.41 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.87 |
| Lead Exit Type | Side |
| Input wire length (in) | - |
| Output wire length (in) | - |

Dimensions

Wiring diagram – see example C on page 19-30

| | |
|-------------------------|---------|
| Casing length (in) | 3.15 |
| Casing width (in) | 1.50 |
| Casing height (in) | 0.95 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.53 |
| Lead Exit Type | Plug-in |
| Input wire length (in) | - |
| Output wire length (in) | 120 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.02 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.20 |
| Mounting Dims (in) | 5.51 |
| Weight (lb) | 0.74 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.46 |
| Output wire length (in) | 8.46 |

LED Drivers - Constant Current

LED Drivers and Halogen Transformers

66872 –

Constant Current, Class 2 Compliance

18W LED Driver. 350mA. TE Dimming. Bottom Feed.

| General characteristics | |
|------------------------------|---------------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 85 |
| Output Type | DC |
| Output Current (mA) | 350 |
| Output Voltage Range (V) | 4.0-52.0 |
| Output Wattage Range (W) | 1.4-18.2 |
| Dimmability | Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

66883 –

Constant Current, Class 2 Compliance

18W LED Driver. 700mA. TE Dimming. Bottom Feed.

| General characteristics | |
|------------------------------|---------------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 83 |
| Output Type | DC |
| Output Current (mA) | 700 |
| Output Voltage Range (V) | 4.0-26.0 |
| Output Wattage Range (W) | 2.8-18.2 |
| Dimmability | Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

66884 –

Constant Current, Class 2 Compliance

18W LED Driver. 700mA. TE Dimming.

| General characteristics | |
|------------------------------|---------------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 83 |
| Output Type | DC |
| Output Current (mA) | 700 |
| Output Voltage Range (V) | 4.0-26.0 |
| Output Wattage Range (W) | 2.8-18.2 |
| Dimmability | Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|--------|
| Casing length (in) | 5.33 |
| Casing width (in) | 1.67 |
| Casing height (in) | 1.32 |
| Mounting Dims (in) | 2.0 |
| Weight (lb) | 0.75 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 6.0 |
| Output wire length (in) | 6.0 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|--------|
| Casing length (in) | 5.33 |
| Casing width (in) | 1.67 |
| Casing height (in) | 1.32 |
| Mounting Dims (in) | 2.0 |
| Weight (lb) | 0.75 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 6.0 |
| Output wire length (in) | 6.0 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.02 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.20 |
| Mounting Dims (in) | 5.51 |
| Weight (lb) | 0.74 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.46 |
| Output wire length (in) | 8.46 |

LED Drivers - Constant Current

LED Drivers and Halogen Transformers

66902 –

Constant Current, Class 2 Compliance

26W LED Driver. 500mA. TE Dimming.

| General characteristics | |
|------------------------------|---------------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 86 |
| Output Type | DC |
| Output Current (mA) | 500 |
| Output Voltage Range (V) | 4.0-52.0 |
| Output Wattage Range (W) | 2.0-26.0 |
| Dimmability | Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.02 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.20 |
| Mounting Dims (in) | 5.51 |
| Weight (lb) | 0.74 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.46 |
| Output wire length (in) | 8.46 |

66903 –

Constant Current, Class 2 Compliance

26W LED Driver. 500mA. TE Dimming. Bottom Feed.

| General characteristics | |
|------------------------------|---------------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 86 |
| Output Type | DC |
| Output Current (mA) | 500 |
| Output Voltage Range (V) | 4.0-52.0 |
| Output Wattage Range (W) | 2.0-26.0 |
| Dimmability | Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|--------|
| Casing length (in) | 5.33 |
| Casing width (in) | 1.67 |
| Casing height (in) | 1.32 |
| Mounting Dims (in) | 2.0 |
| Weight (lb) | 0.75 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 6.0 |
| Output wire length (in) | 6.0 |

66904 –

Constant Current, Class 2 Compliance

36W LED Driver. 700mA. TE Dimming.

| General characteristics | |
|------------------------------|---------------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 88 |
| Output Type | DC |
| Output Current (mA) | 700 |
| Output Voltage Range (V) | 4.0-52.0 |
| Output Wattage Range (W) | 2.8-36.4 |
| Dimmability | Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.02 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.20 |
| Mounting Dims (in) | 5.51 |
| Weight (lb) | 0.74 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.46 |
| Output wire length (in) | 8.46 |

LED Drivers - Constant Current

LED Drivers and Halogen Transformers

66905 –

Constant Current, Class 2 Compliance

36W LED Driver. 700mA. TE Dimming. Bottom Feed.

| General characteristics | |
|------------------------------|---------------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 88 |
| Output Type | DC |
| Output Current (mA) | 700 |
| Output Voltage Range (V) | 4.0-52.0 |
| Output Wattage Range (W) | 2.8-36.4 |
| Dimmability | Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

| Dimensions | |
|--|--------|
| Wiring diagram – see example K on page 19-30 | |
| Casing length (in) | 5.33 |
| Casing width (in) | 1.67 |
| Casing height (in) | 1.32 |
| Mounting Dims (in) | 2.0 |
| Weight (lb) | 0.75 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 6.0 |
| Output wire length (in) | 6.0 |

66885 –

Constant Current, Class 2 Compliance

18W LED Driver. 350mA. LE/TE Dimming.

| General characteristics | |
|------------------------------|-----------------------|
| Input Voltage (V) | 120 |
| Input Frequency (Hz) | 60 |
| Efficiency (%) | 76 |
| Output Type | DC |
| Output Current (mA) | 350 |
| Output Voltage Range (V) | 5.6-42.0 |
| Output Wattage Range (W) | 1.96-14.7 |
| Dimmability | Leading/Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 80 |

| Dimensions | |
|--|-----------|
| Wiring diagram – see example K on page 19-30 | |
| Casing length (in) | 7.80 |
| Casing width (in) | 1.73 |
| Casing height (in) | 1.18 |
| Mounting Dims (in) | 7.48x1.34 |
| Weight (lb) | 0.75 |
| Lead Exit Type | Side |
| Input wire length (in) | 6.3 |
| Output wire length (in) | 10.6 |

66886 –

Constant Current, Class 2 Compliance

18W LED Driver. 350mA. LE/TE Dimming. Bottom Feed.

| General characteristics | |
|------------------------------|-----------------------|
| Input Voltage (V) | 120 |
| Input Frequency (Hz) | 60 |
| Efficiency (%) | 76 |
| Output Type | DC |
| Output Current (mA) | 350 |
| Output Voltage Range (V) | 5.6-42.0 |
| Output Wattage Range (W) | 1.96-14.7 |
| Dimmability | Leading/Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 80 |

| Dimensions | |
|--|--------|
| Wiring diagram – see example K on page 19-30 | |
| Casing length (in) | 7.40 |
| Casing width (in) | 1.73 |
| Casing height (in) | 1.22 |
| Mounting Dims (in) | 2.0 |
| Weight (lb) | 0.75 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 7.1 |
| Output wire length (in) | 7.1 |

LED Drivers - Constant Current

LED Drivers and Halogen Transformers

66887 –

Constant Current, Class 2 Compliance

26W LED Driver. 500mA. LE/TE Dimming.

| General characteristics | |
|------------------------------|-----------------------|
| Input Voltage (V) | 120 |
| Input Frequency (Hz) | 60 |
| Efficiency (%) | 76 |
| Output Type | DC |
| Output Current (mA) | 500 |
| Output Voltage Range (V) | 5.6-42.0 |
| Output Wattage Range (W) | 2.8-21.0 |
| Dimmability | Leading/Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 80 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|-----------|
| Casing length (in) | 7.80 |
| Casing width (in) | 1.73 |
| Casing height (in) | 1.18 |
| Mounting Dims (in) | 7.48x1.34 |
| Weight (lb) | 0.75 |
| Lead Exit Type | Side |
| Input wire length (in) | 6.3 |
| Output wire length (in) | 10.6 |

66898 –

Constant Current, Class 2 Compliance

36W LED Driver. 700mA. LE/TE Dimming.

| General characteristics | |
|------------------------------|-----------------------|
| Input Voltage (V) | 120 |
| Input Frequency (Hz) | 60 |
| Efficiency (%) | 76 |
| Output Type | DC |
| Output Current (mA) | 700 |
| Output Voltage Range (V) | 5.6-42.0 |
| Output Wattage Range (W) | 3.92-29.4 |
| Dimmability | Leading/Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 80 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|-----------|
| Casing length (in) | 7.80 |
| Casing width (in) | 1.73 |
| Casing height (in) | 1.18 |
| Mounting Dims (in) | 7.48x1.34 |
| Weight (lb) | 0.75 |
| Lead Exit Type | Side |
| Input wire length (in) | 6.3 |
| Output wire length (in) | 10.6 |

66899 –

Constant Current, Class 2 Compliance

36W LED Driver. 700mA. LE/TE Dimming. Bottom Feed.

| General characteristics | |
|------------------------------|-----------------------|
| Input Voltage (V) | 120 |
| Input Frequency (Hz) | 60 |
| Efficiency (%) | 76 |
| Output Type | DC |
| Output Current (mA) | 700 |
| Output Voltage Range (V) | 5.6-42.0 |
| Output Wattage Range (W) | 3.92-29.4 |
| Dimmability | Leading/Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 80 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|--------|
| Casing length (in) | 7.40 |
| Casing width (in) | 1.73 |
| Casing height (in) | 1.22 |
| Mounting Dims (in) | 2.0 |
| Weight (lb) | 0.75 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 7.1 |
| Output wire length (in) | 7.1 |

LED Drivers - Constant Current

LED Drivers and Halogen Transformers

93861 –

Constant Current, Class 2 Compliance

30W LED Selectable Driver. 700/1400 mA. 0-10V. Bottom Feed.

| General characteristics | |
|------------------------------|--------------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | >85 |
| Output Type | DC |
| Output Current (mA) | 700 and 1400 |
| Output Voltage Range (V) | 3-43 |
| Output Wattage Range (W) | 30 |
| Dimmability | 0-10V |
| Ambient Temperature min (°C) | -20 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 75 |

93862 –

Constant Current, Class 2 Compliance

30W LED Selectable Driver. 700/1400 mA. 0-10V.

| General characteristics | |
|------------------------------|--------------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | >85 |
| Output Type | DC |
| Output Current (mA) | 700 and 1400 |
| Output Voltage Range (V) | 3-43 |
| Output Wattage Range (W) | 30 |
| Dimmability | 0-10 |
| Ambient Temperature min (°C) | -20 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 75 |

| Dimensions | |
|---|--------|
| Wiring diagram – see example D on page 19-30 | |
| Casing length (in) | 3.74 |
| Casing width (in) | 1.75 |
| Casing height (in) | 1.18 |
| Mounting Dims (in) | |
| Weight (lb) | 0.65 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 8.65 |
| Output wire length (in) | 8.65 |

| Dimensions | |
|---|------|
| Wiring diagram – see example D on page 19-30 | |
| Casing length (in) | 3.74 |
| Casing width (in) | 1.75 |
| Casing height (in) | 1.18 |
| Mounting Dims (in) | |
| Weight (lb) | 0.65 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.65 |
| Output wire length (in) | 8.65 |

LED Drivers - Constant Voltage

LED Drivers and Halogen Transformers

66908 –

Constant Voltage, Class 2 Compliance

10W LED Driver. 12V. Non-Dimming. Terminal Blocks.

| General characteristics | |
|------------------------------|----------|
| Input voltage | 120-240 |
| Input frequency | 50-60 |
| Efficiency (%) | 79 |
| Output Type | DC |
| Output current (mA) | 830 |
| Output current range (mA) | 10-830 |
| Output voltage (V) | 12 |
| Output Wattage Range (W) | 1.0-11.0 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example B on page 19-30

| | |
|-------------------------|-----------|
| Casing length (in) | 3.94 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.05 |
| Mounting Dims (in) | 3.54x1.18 |
| Weight (lb) | 0.21 |
| Lead Exit Type | Terminals |
| Input wire length (in) | - |
| Output wire length (in) | - |

66910 –

Constant Voltage, Class 2 Compliance

10W LED Driver. 24V. Non-Dimming. Terminal Blocks.

| General characteristics | |
|------------------------------|----------|
| Input voltage | 120-240 |
| Input frequency | 50-60 |
| Efficiency (%) | 80 |
| Output Type | DC |
| Output current (mA) | 410 |
| Output current range (mA) | 10-410 |
| Output voltage (V) | 24 |
| Output Wattage Range (W) | 1.0-10.8 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example B on page 19-30

| | |
|-------------------------|-----------|
| Casing length (in) | 3.94 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.05 |
| Mounting Dims (in) | 3.54x1.18 |
| Weight (lb) | 0.21 |
| Lead Exit Type | Terminals |
| Input wire length (in) | - |
| Output wire length (in) | - |

LED Drivers - Constant Voltage

LED Drivers and Halogen Transformers

66912 –

Constant Voltage, Class 2 Compliance

10W LED Driver. 24V. Non-Dimming. Plug-In.

| General characteristics | |
|------------------------------|----------|
| Input voltage | 120 |
| Input frequency | 50-60 |
| Efficiency (%) | 80 |
| Output Type | DC |
| Output current (mA) | 410 |
| Output current range (mA) | 10-410 |
| Output voltage (V) | 24 |
| Output Wattage Range (W) | 1.0-10.8 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | - |

| Dimensions | |
|---|---------|
| Wiring diagram – see example C on page 19-30 | |
| Casing length (in) | 3.15 |
| Casing width (in) | 1.50 |
| Casing height (in) | 0.95 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.53 |
| Lead Exit Type | Plug-In |
| Input wire length (in) | - |
| Output wire length (in) | 120 |

66913 –

Constant Voltage, Class 2 Compliance

25W LED Driver. 12V. Non-Dimming. Terminal Blocks.

| General characteristics | |
|------------------------------|----------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 82 |
| Output Type | DC |
| Output current (mA) | 2000 |
| Output current range (mA) | 10-2000 |
| Output voltage (V) | 12 |
| Output Wattage Range (W) | 1.0-28.0 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

| Dimensions | |
|---|-----------|
| Wiring diagram – see example B on page 19-30 | |
| Casing length (in) | 6.22 |
| Casing width (in) | 1.77 |
| Casing height (in) | 1.26 |
| Mounting Dims (in) | 5.35 |
| Weight (lb) | 0.59 |
| Lead Exit Type | Terminals |
| Input wire length (in) | - |
| Output wire length (in) | - |

LED Drivers - Constant Voltage

LED Drivers and Halogen Transformers

66914 –

Constant Voltage, Class 2 Compliance

25W LED Driver. 12V. Non-Dimming.

| General characteristics | |
|------------------------------|----------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 82 |
| Output Type | DC |
| Output current (mA) | 2000 |
| Output current range (mA) | 100-2000 |
| Output voltage (V) | 12 |
| Output Wattage Range (W) | 1.0-28.0 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

66915 –

Constant Voltage, Class 2 Compliance

25W LED Driver. 12V. Non-Dimming. Signage.

| General characteristics | |
|------------------------------|----------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 82 |
| Output Type | DC |
| Output current (mA) | 2000 |
| Output current range (mA) | 100-2000 |
| Output voltage (V) | 12 |
| Output Wattage Range (W) | 1.0-28.0 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.02 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.20 |
| Mounting Dims (in) | 5.51 |
| Weight (lb) | 0.64 |
| Lead Exit Type | Side |
| Input wire length (in) | 9.8 |
| Output wire length (in) | 9.8 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.02 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.20 |
| Mounting Dims (in) | 5.51 |
| Weight (lb) | 0.64 |
| Lead Exit Type | Side |
| Input wire length (in) | 9.8 |
| Output wire length (in) | 9.8 |

LED Drivers - Constant Voltage

LED Drivers and Halogen Transformers

66919 –

Constant Voltage, Class 2 Compliance

25W LED Driver. 24V. Non-Dimming. Terminal Blocks.

General characteristics

| | |
|------------------------------|---------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 84 |
| Output Type | DC |
| Output current (mA) | 1000 |
| Output current range (mA) | - |
| Output voltage (V) | 24 |
| Output Wattage Range (W) | 0-24.6 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example B on page 19-30

| | |
|-------------------------|-----------|
| Casing length (in) | 6.22 |
| Casing width (in) | 1.77 |
| Casing height (in) | 1.26 |
| Mounting Dims (in) | 5.35 |
| Weight (lb) | 0.59 |
| Lead Exit Type | Terminals |
| Input wire length (in) | - |
| Output wire length (in) | - |

66921 –

Constant Voltage, Class 2 Compliance

25W LED Driver. 24V. Non-Dimming.

General characteristics

| | |
|------------------------------|---------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 84 |
| Output Type | DC |
| Output current (mA) | 1000 |
| Output current range (mA) | - |
| Output voltage (V) | 24 |
| Output Wattage Range (W) | 0-24.6 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.02 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.20 |
| Mounting Dims (in) | 5.51 |
| Weight (lb) | 0.64 |
| Lead Exit Type | Side |
| Input wire length (in) | 18.5 |
| Output wire length (in) | 18.5 |

66922 –

Constant Voltage, Class 2 Compliance

25W LED Driver. 24V. Non-Dimming. Signage.

General characteristics

| | |
|------------------------------|---------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 84 |
| Output Type | DC |
| Output current (mA) | 1000 |
| Output current range (mA) | - |
| Output voltage (V) | 24 |
| Output Wattage Range (W) | 0-24.6 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.02 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.20 |
| Mounting Dims (in) | 5.51 |
| Weight (lb) | 0.64 |
| Lead Exit Type | Side |
| Input wire length (in) | 18.5 |
| Output wire length (in) | 18.5 |

LED Drivers - Constant Voltage

LED Drivers and Halogen Transformers

66923 –

Constant Voltage, Class 2 Compliance

60W LED Driver. 12V. Non-Dimming.

| General characteristics | |
|------------------------------|---------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 85 |
| Output Type | DC |
| Output current (mA) | 5000 |
| Output current range (mA) | - |
| Output voltage (V) | 12.3 |
| Output Wattage Range (W) | 0-67.5 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 38 |
| Case Temperature (°C) | 90 |

66925 –

Constant Voltage, Class 2 Compliance

60W LED Driver. 12V. Non-Dimming. Signage.

| General characteristics | |
|------------------------------|---------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 85 |
| Output Type | DC |
| Output current (mA) | 5000 |
| Output current range (mA) | - |
| Output voltage (V) | 12.3 |
| Output Wattage Range (W) | 0-67.5 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 38 |
| Case Temperature (°C) | 90 |

68660 –

Constant Voltage, Class 2 Compliance

60W LED Driver. 12V. Non-Dimming. White.

| General characteristics | |
|------------------------------|---------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 85 |
| Output Type | DC |
| Output current (mA) | 5000 |
| Output current range (mA) | - |
| Output voltage (V) | 12.3 |
| Output Wattage Range (W) | 0-67.5 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 38 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|-------------|
| Casing length (in) | 7.80 |
| Casing width (in) | 1.73 |
| Casing height (in) | 1.57 |
| Mounting Dims (in) | 7.48 x 1.34 |
| Weight (lb) | 1.29 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.5 |
| Output wire length (in) | 8.5 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|-------------|
| Casing length (in) | 7.80 |
| Casing width (in) | 1.73 |
| Casing height (in) | 1.57 |
| Mounting Dims (in) | 7.48 x 1.34 |
| Weight (lb) | 1.29 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.5 |
| Output wire length (in) | 8.5 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|-------------|
| Casing length (in) | 7.80 |
| Casing width (in) | 1.73 |
| Casing height (in) | 1.57 |
| Mounting Dims (in) | 7.48 x 1.34 |
| Weight (lb) | 1.29 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.5 |
| Output wire length (in) | 8.5 |

LED Drivers - Constant Voltage

LED Drivers and Halogen Transformers

66926 –

Constant Voltage, Class 2 Compliance

60W LED Driver. 24V. Non-Dimming.

| General characteristics | |
|------------------------------|---------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 87 |
| Output Type | DC |
| Output current (mA) | 2500 |
| Output current range (mA) | - |
| Output voltage (V) | 24.5 |
| Output Wattage Range (W) | 0-66.0 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

66927 –

Constant Voltage, Class 2 Compliance

60W LED Driver. 24V. Non-Dimming. White.

| General characteristics | |
|------------------------------|---------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 87 |
| Output Type | DC |
| Output current (mA) | 2500 |
| Output current range (mA) | - |
| Output voltage (V) | 24.5 |
| Output Wattage Range (W) | 0-66.0 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|-------------|
| Casing length (in) | 7.80 |
| Casing width (in) | 1.73 |
| Casing height (in) | 1.57 |
| Mounting Dims (in) | 7.48 x 1.34 |
| Weight (lb) | 1.29 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.5 |
| Output wire length (in) | 8.5 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|-------------|
| Casing length (in) | 7.80 |
| Casing width (in) | 1.73 |
| Casing height (in) | 1.57 |
| Mounting Dims (in) | 7.48 x 1.34 |
| Weight (lb) | 1.29 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.5 |
| Output wire length (in) | 8.5 |

LED Drivers - Constant Voltage

LED Drivers and Halogen Transformers

66930 –

Constant Voltage, Class 2 Compliance

100W CV LED Driver. 12V. Potted. Non-Dimming.

| General characteristics | |
|------------------------------|---------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 81 |
| Output Type | DC |
| Output current (mA) | 8300 |
| Output current range (mA) | - |
| Output voltage (V) | 12.3 |
| Output Wattage Range (W) | 0-112.0 |
| Ambient Temperature min (°C) | -30 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|-----------|
| Casing length (in) | 9.05 |
| Casing width (in) | 2.60 |
| Casing height (in) | 1.65 |
| Mounting Dims (in) | 8.66x0.95 |
| Weight (lb) | 2.27 |
| Lead Exit Type | Side |
| Input wire length (in) | 18.7 |
| Output wire length (in) | 18.7 |

66931 –

Constant Voltage, Class 2 Compliance

100W CV LED Driver. 24V. Potted. Non-Dimming.

| General characteristics | |
|------------------------------|---------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 83 |
| Output Type | DC |
| Output current (mA) | 4200 |
| Output current range (mA) | 42-4200 |
| Output voltage (V) | 24.6 |
| Output Wattage Range (W) | 0-111.0 |
| Ambient Temperature min (°C) | -30 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|-----------|
| Casing length (in) | 9.05 |
| Casing width (in) | 2.60 |
| Casing height (in) | 1.65 |
| Mounting Dims (in) | 8.66x0.95 |
| Weight (lb) | 2.27 |
| Lead Exit Type | Side |
| Input wire length (in) | 18.7 |
| Output wire length (in) | 18.7 |

Wiring Diagrams

LED Drivers and Halogen Transformers

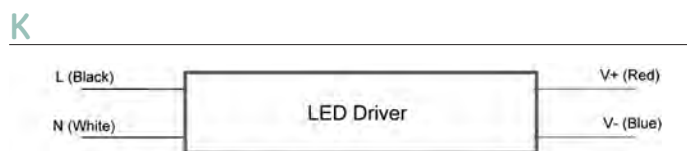
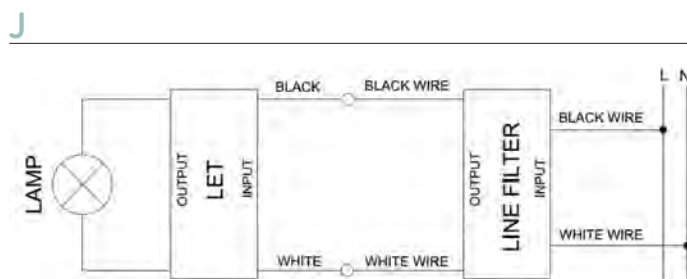
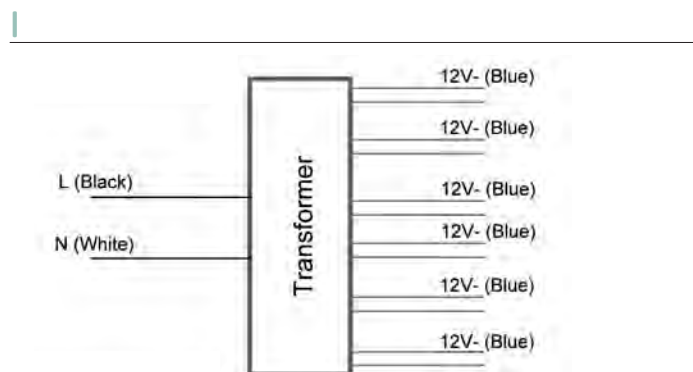
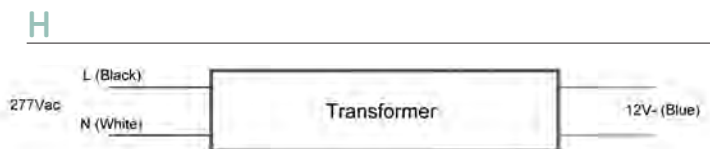
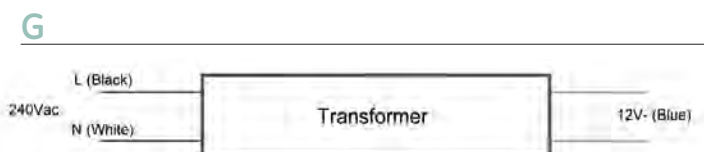
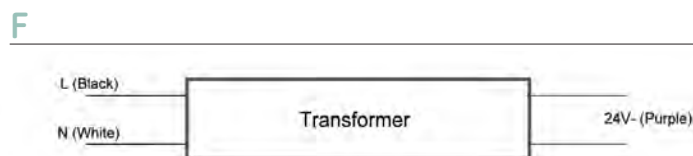
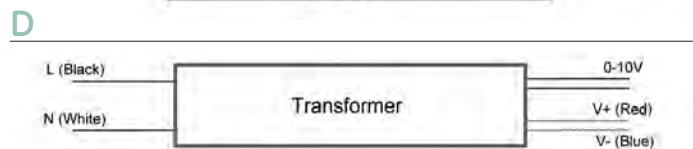
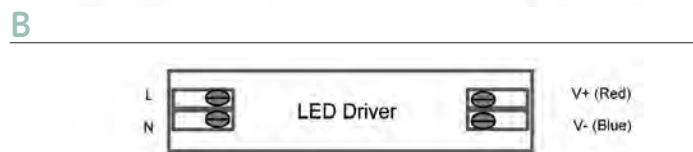
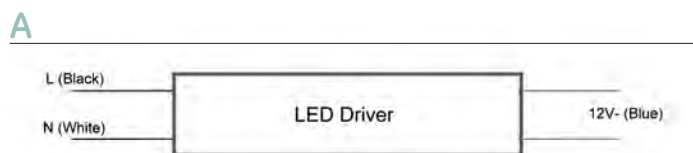


Table of Contents

LED Systems

LED Refrigerated Display Lighting

| | |
|--|-------------|
| Immersion™ RV60 LED Refrigerated Display Lighting for Vertical Cases..... | 20-3 |
| Immersion™ RH30 LED Refrigerated Display Lighting for Horizontal Cases..... | 20-4 |
| Lumination™ LED Downlights..... | 20-6 |

LED Systems

Product Information

Refrigerated Display Lighting

Immersion™ RV60 LED Refrigerated Display Lighting for Vertical Cases (pg. 20-3)

- Up to 65% energy savings vs. T8 LFL Systems
- Up to 50,000 hour lifetime
- An innovative optic design directs light onto merchandise – where it belongs – instead of wasting it on the glass doors
- Cases achieve higher than average lux levels and up to 80% light uniformity across package facings
- The easily hidden light source eliminates distracting glare and light spillage, making aisles feel more spacious and your customer more comfortable



Immersion™ RH30 LED Refrigerated Display Lighting for Horizontal Cases (pg. 20-4)

- Up to 72% energy savings vs. T8 LFL Systems
- Up to 50,000 hour lifetime
- Our new Visual Comfort Lens™ diffuses the light, inhibiting LED hot spots from appearing on merchandise
- Canopy and undershelf lighting solutions work together to produce seamless uniform illumination
- An adjustable clip allows for rotation of the light bar, ensuring the light will angle precisely onto merchandise and bring out the full vibrancy of product packaging
- The slim profile is more discreet than fluorescent tubes, making sure customers see well-lit products and not the light source

Lumination™ LED Downlights (pg. 20-6)

The Lumination RS LED downlights install in just minutes into most four or six-inch recessed housings, making them ideal for use in both retrofit and new construction applications. The GE LED downlight delivers 700 or 1000 lumens at 70+ lumens per watt, bringing significant energy savings to residential, light commercial, and hospitality environments. All downlights in the RS family have instant-on, standard 120V dimming, and a uniform lit appearance, delivering premium performance in a compact, economical package.

- 5 years, limited systems warranty
- ENERGY STAR® qualified
- 35,000 hour life rating



LED Refrigerated Display Lighting LED Systems

| Product Code (Single) | Product Code (10-Pack) | Description | Item | Color Temp (K)* | Light Output (Lumens)** | LPW | Lumens Per ft. (m) | Life (Hours) | CRI (Min) | Power (Watts)*** | Length (L) | Width (W) | Depth (D) |
|-----------------------|------------------------|-------------|------|-----------------|-------------------------|-----|--------------------|--------------|-----------|------------------|------------|-----------|-----------|
|-----------------------|------------------------|-------------|------|-----------------|-------------------------|-----|--------------------|--------------|-----------|------------------|------------|-----------|-----------|

LED Refrigerated Display Lighting

Immersion RV60 Series

| | | | | | | | | | | | | | | | |
|-------|-------|-----------------------|---------------------------|---------------------------|------|------|-----------|-----------|--------|-----|-----------|---------------|---------------|-----------|-----------|
| 5000K | 85742 | 85745 | GELT604850CTR-SY/ SB | 48" LED Light - Center | 5000 | 896 | 80 | 222 (727) | 50,000 | 80 | 11.2 | (in) (mm) | 48.53 1232.6 | 2.58 65.5 | 1.28 32.5 |
| | 85744 | 85747 | GELT604850EDL-SY/ SB | 48" LED Light - Left End | 5000 | 559 | 81 | 138 (454) | 50,000 | 80 | 6.9 | (in) (mm) | 48.53 1232.6 | 2.09 53.1 | 1.59 40.4 |
| | 85743 | 85746 | GELT604850EDR-SY/ SB | 48" LED Light - Right End | 5000 | 559 | 81 | 138 (454) | 50,000 | 80 | 6.9 | (in) (mm) | 48.53 1232.6 | 2.09 53.1 | 1.59 40.4 |
| | 85699 | 85702 | GELT606050CTR-SY / SB | 60" LED Light - Center | 5000 | 1020 | 73 | 203 (665) | 50,000 | 80 | 13.9 | (in) (mm) | 60.36 1533.1 | 2.58 65.5 | 1.28 32.5 |
| | 85701 | 85704 | GELT606050EDL-SY / SB | 60" LED Light - Left End | 5000 | 569 | 81 | 113 (371) | 50,000 | 80 | 7.0 | (in) (mm) | 60.36 1533.1 | 2.09 53.1 | 1.59 40.4 |
| | 85700 | 85703 | GELT606050EDR-SY / SB | 60" LED Light - Right End | 5000 | 569 | 81 | 113 (371) | 50,000 | 80 | 7.0 | (in) (mm) | 60.36 1533.1 | 2.09 53.1 | 1.59 40.4 |
| | 85717 | 85722 | GELT606750CTR-SY / SB | 67" LED Light - Center | 5000 | 1227 | 80 | 218 (716) | 50,000 | 80 | 15.4 | (in) (mm) | 67.47 1713.76 | 2.58 65.5 | 1.28 32.5 |
| 4000K | 85721 | 85724 | GELT606750EDL-SY / SB | 67" LED Light - Left End | 5000 | 745 | 85 | 133 (435) | 50,000 | 80 | 8.8 | (in) (mm) | 67.47 1713.76 | 2.09 53.1 | 1.59 40.4 |
| | 85720 | 85723 | GELT606750EDR-SY / SB | 67" LED Light - Right End | 5000 | 745 | 85 | 133 (435) | 50,000 | 80 | 8.8 | (in) (mm) | 67.47 1713.76 | 2.09 53.1 | 1.59 40.4 |
| | 85748 | 85751 | GELT604840CTR-SY/ SB | 48" LED Light - Center | 4000 | 844 | 76 | 209 (685) | 50,000 | 80 | 11.2 | (in) (mm) | 48.53 1232.6 | 2.58 65.5 | 1.28 32.5 |
| | 85750 | 85753 | GELT604840EDL-SY/ SB | 48" LED Light - Left End | 4000 | 534 | 77 | 132 (433) | 50,000 | 80 | 6.9 | (in) (mm) | 48.53 1232.6 | 2.09 53.1 | 1.59 40.4 |
| | 85749 | 85752 | GELT604840EDR-SY/ SB | 48" LED Light - Right End | 4000 | 534 | 77 | 132 (433) | 50,000 | 80 | 6.9 | (in) (mm) | 48.53 1232.6 | 2.09 53.1 | 1.59 40.4 |
| | 85705 | 85708 | GELT606040CTR-SY / SB | 60" LED Light - Center | 4000 | 1023 | 74 | 203 (667) | 50,000 | 80 | 13.9 | (in) (mm) | 60.36 1533.1 | 2.58 65.5 | 1.28 32.5 |
| | 85707 | 85710 | GELT606040EDL-SY / SB | 60" LED Light - Left End | 4000 | 577 | 82 | 115 (376) | 50,000 | 80 | 7.0 | (in) (mm) | 60.36 1533.1 | 2.09 53.1 | 1.59 40.4 |
| | 85706 | 85709 | GELT606040EDR-SY / SB | 60" LED Light - Right End | 4000 | 577 | 82 | 115 (376) | 50,000 | 80 | 7.0 | (in) (mm) | 60.36 1533.1 | 2.09 53.1 | 1.59 40.4 |
| | 85725 | 85728 | GELT606740CTR-SY / SB | 67" LED Light - Center | 4000 | 1142 | 74 | 203 (666) | 50,000 | 80 | 15.4 | (in) (mm) | 67.47 1713.76 | 2.58 65.5 | 1.28 32.5 |
| | 85727 | 85735 | GELT606740EDL-SY / SB | 67" LED Light - Left End | 4000 | 683 | 78 | 121 (399) | 50,000 | 80 | 8.8 | (in) (mm) | 67.47 1713.76 | 2.09 53.1 | 1.59 40.4 |
| 85726 | 85734 | GELT606740EDR-SY / SB | 67" LED Light - Right End | 4000 | 683 | 78 | 121 (399) | 50,000 | 80 | 8.8 | (in) (mm) | 67.47 1713.76 | 2.09 53.1 | 1.59 40.4 | |
| 3500K | 85754 | 85757 | GELT604835CTR-SY/ SB | 48" LED Light - Center | 3500 | 813 | 73 | 201 (660) | 50,000 | 80 | 11.2 | (in) (mm) | 48.53 1232.6 | 2.58 65.5 | 1.28 32.5 |
| | 85756 | 85759 | GELT604835EDL-SY/ SB | 48" LED Light - Left End | 3500 | 500 | 72 | 124 (406) | 50,000 | 80 | 6.9 | (in) (mm) | 48.53 1232.6 | 2.09 53.1 | 1.59 40.4 |
| | 85755 | 85758 | GELT604835EDR-SY/ SB | 48" LED Light - Right End | 3500 | 500 | 72 | 124 (406) | 50,000 | 80 | 6.9 | (in) (mm) | 48.53 1232.6 | 2.09 53.1 | 1.59 40.4 |
| | 85711 | 85714 | GELT606035CTR-SY / SB | 60" LED Light - Center | 3500 | 908 | 65 | 181 (592) | 50,000 | 80 | 13.9 | (in) (mm) | 60.36 1533.1 | 2.58 65.5 | 1.28 32.5 |
| | 85713 | 85716 | GELT606035EDL-SY / SB | 60" LED Light - Left End | 3500 | 516 | 74 | 103 (337) | 50,000 | 80 | 7.0 | (in) (mm) | 60.36 1533.1 | 2.09 53.1 | 1.59 40.4 |
| | 85712 | 85715 | GELT606035EDR-SY / SB | 60" LED Light - Right End | 3500 | 516 | 74 | 103 (337) | 50,000 | 80 | 7.0 | (in) (mm) | 60.36 1533.1 | 2.09 53.1 | 1.59 40.4 |
| | 85736 | 85739 | GELT606735CTR-SY / SB | 67" LED Light - Center | 3500 | 1105 | 72 | 197 (645) | 50,000 | 80 | 15.4 | (in) (mm) | 67.47 1713.76 | 2.58 65.5 | 1.28 32.5 |
| 85738 | 85741 | GELT606735EDL-SY / SB | 67" LED Light - Left End | 3500 | 667 | 76 | 119 (389) | 50,000 | 80 | 8.8 | (in) (mm) | 67.47 1713.76 | 2.09 53.1 | 1.59 40.4 | |
| 85737 | 85740 | GELT606735EDR-SY / SB | 67" LED Light - Right End | 3500 | 667 | 76 | 119 (389) | 50,000 | 80 | 8.8 | (in) (mm) | 67.47 1713.76 | 2.09 53.1 | 1.59 40.4 | |

* Color temp (CCT) +/- 10%

**Based on typical in-store conditions.

***System AC watts based on typical in-store conditions.

| Product Code | Description | Item | Length (L) | Width (W) | Depth (D) |
|--------------|-------------|------|------------|-----------|-----------|
|--------------|-------------|------|------------|-----------|-----------|

Accessories

LED Drivers

| | | | | | | |
|-------|------------------|-----------------|------|-------|------|-------|
| 13798 | GEP56100NCCON-SY | 100W LED Driver | (in) | 10.75 | 1.65 | 1.1 |
| | | | (mm) | 273 | 42 | 28 |
| 68595 | GEP56500NCMUL-SY | 50W LED Driver | (in) | 10.75 | 1.65 | 1.1 |
| | | | (mm) | 273 | 42 | 28 |
| 79814 | GE-CV-4060CTR | Wire Cover | (in) | 1.77 | 1.42 | 1.19 |
| | | | (mm) | 45.01 | 36 | 30.23 |

LED Refrigerated Display Lighting

LED Systems

| Product Code | Description | Package Quantity | Item | Color Temp (K)** | Light Output (Lumens)* | LPW | Lumens Per ft | Life (Hours) | CRI (Min) | Power (Watts)* | Length (L) | Width (W) | Depth (D) |
|--------------|-------------|------------------|------|------------------|------------------------|-----|---------------|--------------|-----------|----------------|------------|-----------|-----------|
|--------------|-------------|------------------|------|------------------|------------------------|-----|---------------|--------------|-----------|----------------|------------|-----------|-----------|

LED Refrigerated Display Lighting

Immersion RH30 LED Standard Series

| | | | | | | | | | | | | | | | |
|-------|-------|----------------|----|------------------|------|------|----|-----|--------|----|------|------|--------|------|------|
| 5000K | 69644 | 48" Canopy | 1 | GEMT304850CAN-SY | 5000 | 1440 | 67 | 360 | 50,000 | 80 | 21.5 | (in) | 45.0 | 1.3 | 0.9 |
| | | | 10 | GEMT304850CAN-SB | | | | | | | | (mm) | 1144.0 | 33.7 | 23.2 |
| | 69650 | 48" Undershelf | 1 | GEMT304850USL-SY | 5000 | 500 | 70 | 125 | 50,000 | 80 | 7.1 | (in) | 45.0 | 1.3 | 0.9 |
| | | | 10 | GEMT304850USL-SB | | | | | | | | (mm) | 1144.0 | 33.7 | 23.2 |
| | 69642 | 36" Canopy | 1 | GEMT303650CAN-SY | 5000 | 1078 | 68 | 359 | 50,000 | 80 | 15.9 | (in) | 34.4 | 1.3 | 0.9 |
| | | | 10 | GEMT303650CAN-SB | | | | | | | | (mm) | 874.0 | 33.7 | 23.2 |
| | 69648 | 36" Undershelf | 1 | GEMT303650USL-SY | 5000 | 371 | 69 | 124 | 50,000 | 80 | 5.4 | (in) | 34.4 | 1.3 | 0.9 |
| | | | 10 | GEMT303650USL-SB | | | | | | | | (mm) | 874.0 | 33.7 | 23.2 |
| | 69640 | 24" Canopy | 1 | GEMT302450CAN-SY | 5000 | 737 | 71 | 369 | 50,000 | 80 | 10.4 | (in) | 23.8 | 1.3 | 0.9 |
| | | | 10 | GEMT302450CAN-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 |
| | 69646 | 24" Undershelf | 1 | GEMT302450USL-SY | 5000 | 245 | 68 | 123 | 50,000 | 80 | 3.6 | (in) | 23.8 | 1.3 | 0.9 |
| | | | 10 | GEMT302450USL-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 |
| 4000K | 69662 | 48" Canopy | 1 | GEMT304840CAN-SY | 4000 | 1400 | 65 | 350 | 50,000 | 80 | 21.5 | (in) | 45.0 | 1.3 | 0.9 |
| | | | 10 | GEMT304840CAN-SB | | | | | | | | (mm) | 1144.0 | 33.7 | 23.2 |
| | 69668 | 48" Undershelf | 1 | GEMT304840USL-SY | 4000 | 560 | 79 | 140 | 50,000 | 80 | 7.1 | (in) | 45.0 | 1.3 | 0.9 |
| | | | 10 | GEMT304840USL-SB | | | | | | | | (mm) | 1144.0 | 33.7 | 23.2 |
| | 69660 | 36" Canopy | 1 | GEMT303640CAN-SY | 4000 | 1020 | 64 | 340 | 50,000 | 80 | 15.9 | (in) | 34.4 | 1.3 | 0.9 |
| | | | 10 | GEMT303640CAN-SB | | | | | | | | (mm) | 874.0 | 33.7 | 23.2 |
| | 69666 | 36" Undershelf | 1 | GEMT303640USL-SY | 4000 | 420 | 78 | 140 | 50,000 | 80 | 5.4 | (in) | 34.4 | 1.3 | 0.9 |
| | | | 10 | GEMT303640USL-SB | | | | | | | | (mm) | 874.0 | 33.7 | 23.2 |
| | 69652 | 24" Canopy | 1 | GEMT302440CAN-SY | 4000 | 773 | 74 | 387 | 50,000 | 80 | 10.4 | (in) | 23.8 | 1.3 | 0.9 |
| | | | 10 | GEMT302440CAN-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 |
| | 69664 | 24" Undershelf | 1 | GEMT302440USL-SY | 4000 | 240 | 67 | 120 | 50,000 | 80 | 3.6 | (in) | 23.8 | 1.3 | 0.9 |
| | | | 10 | GEMT302440USL-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 |
| 3500K | 69713 | 48" Canopy | 1 | GEMT304835CAN-SY | 3500 | 1300 | 60 | 325 | 50,000 | 80 | 21.5 | (in) | 45.0 | 1.3 | 0.9 |
| | | | 10 | GEMT304835CAN-SB | | | | | | | | (mm) | 1144.0 | 33.7 | 23.2 |
| | 69719 | 48" Undershelf | 1 | GEMT304835USL-SY | 3500 | 515 | 73 | 129 | 50,000 | 80 | 7.1 | (in) | 45.0 | 1.3 | 0.9 |
| | | | 10 | GEMT304835USL-SB | | | | | | | | (mm) | 1144.0 | 33.7 | 23.2 |
| | 69711 | 36" Canopy | 1 | GEMT303635CAN-SY | 3500 | 960 | 60 | 320 | 50,000 | 80 | 15.9 | (in) | 34.4 | 1.3 | 0.9 |
| | | | 10 | GEMT303635CAN-SB | | | | | | | | (mm) | 874.0 | 33.7 | 23.2 |
| | 69717 | 36" Undershelf | 1 | GEMT303635USL-SY | 3500 | 385 | 71 | 128 | 50,000 | 80 | 5.4 | (in) | 34.4 | 1.3 | 0.9 |
| | | | 10 | GEMT303635USL-SB | | | | | | | | (mm) | 874.0 | 33.7 | 23.2 |
| | 69709 | 24" Canopy | 1 | GEMT302435CAN-SY | 3500 | 738 | 71 | 369 | 50,000 | 80 | 10.4 | (in) | 23.8 | 1.3 | 0.9 |
| | | | 10 | GEMT302435CAN-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 |
| | 69715 | 24" Undershelf | 1 | GEMT302435USL-SY | 3500 | 250 | 69 | 125 | 50,000 | 80 | 3.6 | (in) | 23.8 | 1.3 | 0.9 |
| | | | 10 | GEMT302435USL-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 |
| 3000K | 69687 | 48" Canopy | 1 | GEMT304830CAN-SY | 3000 | 1200 | 56 | 300 | 50,000 | 80 | 21.5 | (in) | 45.0 | 1.3 | 0.9 |
| | | | 10 | GEMT304830CAN-SB | | | | | | | | (mm) | 1144.0 | 33.7 | 23.2 |
| | 69695 | 48" Undershelf | 1 | GEMT304830USL-SY | 3000 | 450 | 63 | 113 | 50,000 | 80 | 7.1 | (in) | 45.0 | 1.3 | 0.9 |
| | | | 10 | GEMT304830USL-SB | | | | | | | | (mm) | 1144.0 | 33.7 | 23.2 |
| | 69685 | 36" Canopy | 1 | GEMT303630CAN-SY | 3000 | 900 | 57 | 300 | 50,000 | 80 | 15.9 | (in) | 34.4 | 1.3 | 0.9 |
| | | | 10 | GEMT303630CAN-SB | | | | | | | | (mm) | 874.0 | 33.7 | 23.2 |
| | 69691 | 36" Undershelf | 1 | GEMT303630USL-SY | 3000 | 350 | 65 | 117 | 50,000 | 80 | 5.4 | (in) | 34.4 | 1.3 | 0.9 |
| | | | 10 | GEMT303630USL-SB | | | | | | | | (mm) | 874.0 | 33.7 | 23.2 |
| | 69682 | 24" Canopy | 1 | GEMT302430CAN-SY | 3000 | 600 | 58 | 300 | 50,000 | 80 | 10.4 | (in) | 23.8 | 1.3 | 0.9 |
| | | | 10 | GEMT302430CAN-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 |
| | 69689 | 24" Undershelf | 1 | GEMT302430USL-SY | 3000 | 150 | 42 | 75 | 50,000 | 80 | 3.6 | (in) | 23.8 | 1.3 | 0.9 |
| | | | 10 | GEMT302430USL-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 |

*Lumens and DC watts based on typical in-store installed conditions.

**Color temp, lumens, LPW, and watts +/-10%.

LED Refrigerated Display Lighting LED Systems

| Product Code | Description | Package Quantity | Item | Color Temp (K)** | Light Output (Lumens)* | LPW | Lumens Per ft | Life (Hours) | CRI (Min) | Power (Watts)* | Length (L) | Width (W) | Depth (D) |
|--------------|-------------|------------------|------|------------------|------------------------|-----|---------------|--------------|-----------|----------------|------------|-----------|-----------|
|--------------|-------------|------------------|------|------------------|------------------------|-----|---------------|--------------|-----------|----------------|------------|-----------|-----------|

LED Refrigerated Display Lighting (continued)

Immersion RH30 LED Premium Series

| | | | | | | | | | | | | | | | | |
|-------|-------|----------------|------------|------------------|------------------|------|-----|-----|--------|--------|------|------|--------|--------|------|------|
| 4000K | 69674 | 48" Canopy | 1 | GEMT314840CAN-SY | 4000 | 937 | 44 | 234 | 50,000 | 75 | 21.5 | (in) | 45.7 | 1.3 | 0.9 | |
| | 69675 | | 10 | GEMT314840CAN-SB | | | | | | | | (mm) | 1160.0 | 33.7 | 23.2 | |
| | 69680 | 48" Undershelf | 1 | GEMT314840USL-SY | 4000 | 357 | 50 | 89 | 50,000 | 75 | 7.1 | (in) | 45.7 | 1.3 | 0.9 | |
| | 69681 | | 10 | GEMT314840USL-SB | | | | | | | | (mm) | 1160.0 | 33.7 | 23.2 | |
| | 69672 | 36" Canopy | 1 | GEMT313640CAN-SY | 4000 | 730 | 46 | 243 | 50,000 | 75 | 15.9 | (in) | 35.0 | 1.3 | 0.9 | |
| | 69673 | | 10 | GEMT313640CAN-SB | | | | | | | | (mm) | 890.0 | 33.7 | 23.2 | |
| | 69678 | 36" Undershelf | 1 | GEMT313640USL-SY | 4000 | 274 | 51 | 91 | 50,000 | 75 | 5.4 | (in) | 35.0 | 1.3 | 0.9 | |
| | 69679 | | 10 | GEMT313640USL-SB | | | | | | | | (mm) | 890.0 | 33.7 | 23.2 | |
| | 69670 | 24" Canopy | 1 | GEMT312440CAN-SY | 4000 | 481 | 46 | 160 | 50,000 | 75 | 10.4 | (in) | 23.8 | 1.3 | 0.9 | |
| | 69671 | | 10 | GEMT312440CAN-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 | |
| | 69676 | 24" Undershelf | 1 | GEMT312440USL-SY | 4000 | 181 | 50 | 60 | 50,000 | 75 | 3.6 | (in) | 23.8 | 1.3 | 0.9 | |
| | 69677 | | 10 | GEMT312440USL-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 | |
| | 3000K | 69701 | 48" Canopy | 1 | GEMT314830CAN-SY | 3000 | 812 | 38 | 203 | 50,000 | 72 | 21.5 | (in) | 45.7 | 1.3 | 0.9 |
| | | 69702 | | 10 | GEMT314830CAN-SB | | | | | | | | (mm) | 1160.0 | 33.7 | 23.2 |
| 69707 | | 48" Undershelf | 1 | GEMT314830USL-SY | 3000 | 320 | 45 | 80 | 50,000 | 72 | 7.1 | (in) | 45.7 | 1.3 | 0.9 | |
| 69708 | | | 10 | GEMT314830USL-SB | | | | | | | | (mm) | 1160.0 | 33.7 | 23.2 | |
| 69699 | | 36" Canopy | 1 | GEMT313630CAN-SY | 3000 | 630 | 40 | 158 | 50,000 | 72 | 15.9 | (in) | 35.0 | 1.3 | 0.9 | |
| 69700 | | | 10 | GEMT313630CAN-SB | | | | | | | | (mm) | 890.0 | 33.7 | 23.2 | |
| 69705 | | 36" Undershelf | 1 | GEMT313630USL-SY | 3000 | 242 | 45 | 61 | 50,000 | 72 | 5.4 | (in) | 35.0 | 1.3 | 0.9 | |
| 69706 | | | 10 | GEMT313630USL-SB | | | | | | | | (mm) | 890.0 | 33.7 | 23.2 | |
| 69697 | | 24" Canopy | 1 | GEMT312430CAN-SY | 3000 | 427 | 41 | 142 | 50,000 | 72 | 10.4 | (in) | 23.8 | 1.3 | 0.9 | |
| 69698 | | | 10 | GEMT312430CAN-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 | |
| 69703 | | 24" Undershelf | 1 | GEMT312430USL-SY | 3000 | 160 | 44 | 53 | 50,000 | 72 | 3.6 | (in) | 23.8 | 1.3 | 0.9 | |
| 69704 | | | 10 | GEMT312430USL-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 | |

*Lumens and DC watts based on typical in-store installed conditions.

**Color temp, lumens, LPW, and watts +/-10%.

| Product Code | Description | Item | Length (L) | Width (W) | Depth (D) |
|--------------|-------------|------|------------|-----------|-----------|
|--------------|-------------|------|------------|-----------|-----------|

Accessories

LED Drivers

| | | | | | | |
|-------|------------------|-----------------|------|-------|------|-----|
| 13798 | GEP56100NCCON-SY | 100W LED Driver | (in) | 10.75 | 1.65 | 1.1 |
| | | | (mm) | 273 | 42 | 28 |
| 68595 | GEP56500NCMUL-SY | 50W LED Driver | (in) | 10.75 | 1.65 | 1.1 |
| | | | (mm) | 273 | 42 | 28 |

Mounting Clips

| | | | | | | |
|-------|-----------------|-----------------------------|------|-------|-------|------|
| 69721 | GEMT3000NCM1-SY | Universal Mounting Clip - L | (in) | 1.058 | 1.024 | 1.18 |
| 69723 | GEMT3000NCM1-SB | | (mm) | 27 | 26 | 29.9 |

Lumination™ LED Downlights

LED Systems

| Product Code | Description | Recessed Can Size | CCT | Base Type | CRI | Lumens | Watts | LPW | Rated Life L70 (Hrs.) | Dimmable | Location Rating | Base Attachment |
|-----------------------------------|------------------|-------------------|-------|-----------|-----|--------|-------|-----|-----------------------|----------|-----------------|-----------------|
| Lumination™ LED Downlights | | | | | | | | | | | | |
| 4-Inch LED Downlights | | | | | | | | | | | | |
| 95853 | LED10RS4/827E26P | 4" | 2700K | E26 | 80 | 700 | 10 | 70 | 35,000 | Yes | Damp | Pigtail |
| 95854 | LED10RS4/830E26P | 4" | 3000K | E26 | 80 | 700 | 10 | 70 | 35,000 | Yes | Damp | Pigtail |
| 95855 | LED10RS4/827GUP | 4" | 2700K | GU24 | 80 | 700 | 10 | 70 | 35,000 | Yes | Damp | Pigtail |
| 95856 | LED10RS4/830GUP | 4" | 3000K | GU24 | 80 | 700 | 10 | 70 | 35,000 | Yes | Damp | Pigtail |
| 6-Inch LED Downlights | | | | | | | | | | | | |
| 85153 | LED10RS6/827E26P | 6" | 2700K | E26 | 80 | 700 | 10 | 70 | 35,000 | Yes | Damp | Pigtail |
| 85160 | LED10RS6/830E26P | 6" | 3000K | E26 | 80 | 700 | 10 | 70 | 35,000 | Yes | Damp | Pigtail |
| 95851 | LED10RS6/827GUP | 6" | 2700K | GU24 | 80 | 700 | 10 | 70 | 35,000 | Yes | Damp | Pigtail |
| 95852 | LED10RS6/830GUP | 6" | 3000K | GU24 | 80 | 700 | 10 | 70 | 35,000 | Yes | Damp | Pigtail |
| 70120 | LED13RS6/827E26P | 6" | 2700K | E26 | 80 | 1,000 | 13 | 75 | 35,000 | Yes | Damp | Pigtail |
| 70122 | LED13RS6/830E26P | 6" | 3000K | E26 | 80 | 1,000 | 13 | 75 | 35,000 | Yes | Damp | Pigtail |
| 70124 | LED13RS6/827GUP | 6" | 2700K | GU26 | 80 | 1,000 | 13 | 75 | 35,000 | Yes | Damp | Pigtail |
| 70127 | LED13RS6/830GUP | 6" | 3000K | GU26 | 80 | 1,000 | 13 | 75 | 35,000 | Yes | Damp | Pigtail |



Table of Contents

Controls

Occupancy Sensors

Ceiling.....21-3

Corner/Wall21-3

Wall Switch21-3

High-Bay Fixture Mount.....21-4

GE Aware™ Photo Sensors21-4

Coverage Diagrams 21-5

Controls

Introduction

The design of the room and the amount of activity happening within the space will determine the level of sensitivity you need in your sensor. GE Aware™ Occupancy Sensors are available in three distinct technologies, so that you can be sure to find the appropriate solution for your space.

Ultrasonic (US)

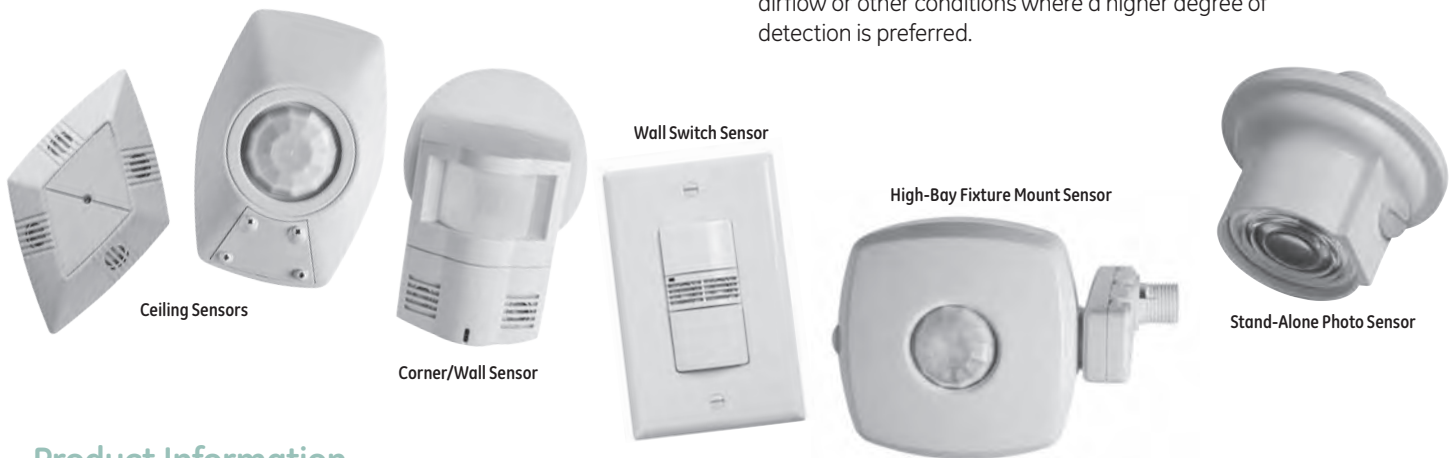
Ultrasonic sensors detect occupancy by emitting a high-frequency signal and interpreting changes in frequency as motion. Ultrasonic sensors do not require a direct line of sight, meaning they can “see” around corners and objects. They are also highly sensitive to motion – even minor hand movement. They are most suitable for open spaces, spaces with obstacles in the sensor’s line of sight, rest-rooms and spaces with hard surfaces.

Passive Infrared (PIR)

Designed to detect motion from a heat-emitting source, PIR sensors switch lights On and Off when a person enters or exits their field of view. They are best for applications that offer a direct line of sight to the source that creates the motion, such as enclosed spaces, areas where the sensor has a view of activity, outdoor areas and warehouse aisles.

Dual Tech (DT)

Dual Tech sensors combine PIR and ultrasonic technology. Lights are only activated when both sensors detect occupancy – eliminating false activation – and require one of the technologies to keep the lights on, significantly reducing the possibility of a false deactivation. They are suited for classrooms, conference rooms, areas with heavy airflow or other conditions where a higher degree of detection is preferred.



Product Information

Occupancy Sensors

Ceiling (pg. 21-3)

- Ultrasonic, Infrared and Dual Tech sensing
- 180- or 360-degree viewing area
- Small, medium or large room options
- Photocell capability
- Form C relay
- Extreme temperature and open air options (max. height 25')

Corner/Wall (pg. 21-3)

- Infrared and Dual Tech sensing
- 180-degree viewing area
- Photocell capability
- Long (hallway) or wide (room) composition
- Form C relay

Wall Switch (pg. 21-3)

- Infrared and Dual Tech sensing
- Line voltage (directly replaces wall switch) or low voltage (for switchpacks or GE LightSweep™)
- Single or dual relay
- Photocell capability
- Five colors available: white, ivory, light almond, gray, black

High-Bay Fixture Mount (pg. 21-4)

- Fixture mount
- Passive Infrared
- Line voltage (120–277V)
- Single and dual relay options
- Optional photocell

GE Aware™ Photo Sensors

Stand-Alone Photo Sensor (pg. 21-4)

- For retrofit applications (indoor use only)

| Product Code | Description | Sensing Technology | Viewing Angle | Coverage Area | Additional Information |
|--------------|-------------|--------------------|---------------|---------------|------------------------|
|--------------|-------------|--------------------|---------------|---------------|------------------------|

Occupancy Sensor

GE Aware™ Ceiling Sensors - Low Voltage

| | | | | | |
|-------|----------------|-----|------|------------------|-----------------|
| 63270 | CIR-05-360-D | PIR | 360° | 500 sq. ft. | with photocell |
| 63272 | CIR-15-360-D | PIR | 360° | 1500 sq. ft. | with photocell |
| 63275 | CUS-05-180 | US | 180° | 500 sq. ft. | |
| 63276 | CUS-05-180-R | US | 180° | 500 sq. ft. | with aux. relay |
| 63277 | CUS-10-180 | US | 180° | 1000 sq. ft. | |
| 63278 | CUS-10-180-R | US | 180° | 1000 sq. ft. | with aux. relay |
| 63279 | CUS-20-360 | US | 360° | 2000 sq. ft. | |
| 63280 | CUS-20-360-R | US | 360° | 2000 sq. ft. | with aux. relay |
| 63268 | CDT-20-360-R | DT | 360° | 2000sq. ft. | with aux. relay |
| 63273 | CIR-15-360-D-T | PIR | 360° | 1500 sq. ft. | with photocell |
| 63274 | CIR-2H-360-D-T | PIR | 360° | 2 x mount height | with photocell |

GE Aware™ Corner/Wall Sensors - Low Voltage

| | | | | | |
|-------|------------|-----|--|---------------|----------------|
| 63293 | SIR-WIDE-D | PIR | | 1200 sq. ft. | with photocell |
| 63292 | SIR-WIDE | PIR | | 1200 sq. ft. | |
| 63290 | SIR-LONG | PIR | | 90 ft. linear | |
| 63291 | SIR-LONG-D | PIR | | 90 ft. linear | with photocell |
| 63288 | SDT-WIDE | DT | | 1200 sq. ft. | |
| 63289 | SDT-WIDE-D | DT | | 1200 sq. ft. | with photocell |

| Product Code | Description | Sensing Technology | Relay | Coverage Area | Voltage | Color | Additional Information |
|--------------|-------------|--------------------|-------|---------------|---------|-------|------------------------|
|--------------|-------------|--------------------|-------|---------------|---------|-------|------------------------|

GE Aware™ Wall Switch Sensors - Line Voltage

| | | | | | | | |
|-------|-----------------|-----|--------|--------------|---------|--------------|----------------|
| 63295 | WDT-10-SR-G-D-W | DT | Single | 1000 sq. ft. | 120/277 | White | with photocell |
| 63296 | WDT-10-SR-G-D-V | DT | Single | 1000 sq. ft. | 120/277 | Ivory | with photocell |
| 63297 | WDT-10-SR-G-D-A | DT | Single | 1000 sq. ft. | 120/277 | Light Almond | with photocell |
| 63298 | WDT-10-SR-G-D-G | DT | Single | 1000 sq. ft. | 120/277 | Gray | with photocell |
| 63299 | WDT-10-SR-G-D-B | DT | Single | 1000 sq. ft. | 120/277 | Black | with photocell |
| 63308 | WDT-10-DR-G-D-W | DT | Dual | 1000 sq. ft. | 120/277 | White | with photocell |
| 63309 | WDT-10-DR-G-D-V | DT | Dual | 1000 sq. ft. | 120/277 | Ivory | with photocell |
| 63313 | WDT-10-DR-G-D-A | DT | Dual | 1000 sq. ft. | 120/277 | Light Almond | with photocell |
| 63314 | WDT-10-DR-G-D-G | DT | Dual | 1000 sq. ft. | 120/277 | Gray | with photocell |
| 63315 | WDT-10-DR-G-D-B | DT | Dual | 1000 sq. ft. | 120/277 | Black | with photocell |
| 63324 | WIR-10-SR-G-D-W | PIR | Single | 1000 sq. ft. | 120/277 | White | with photocell |
| 63325 | WIR-10-SR-G-D-V | PIR | Single | 1000 sq. ft. | 120/277 | Ivory | with photocell |
| 63326 | WIR-10-SR-G-D-A | PIR | Single | 1000 sq. ft. | 120/277 | Light Almond | with photocell |
| 63327 | WIR-10-SR-G-D-G | PIR | Single | 1000 sq. ft. | 120/277 | Gray | with photocell |
| 63328 | WIR-10-SR-G-D-B | PIR | Single | 1000 sq. ft. | 120/277 | Black | with photocell |
| 63335 | WIR-10-SR-C-D-W | PIR | Single | 1000 sq. ft. | 347 | White | with photocell |
| 63336 | WIR-10-SR-C-D-V | PIR | Single | 1000 sq. ft. | 347 | Ivory | with photocell |
| 63337 | WIR-10-SR-C-D-A | PIR | Single | 1000 sq. ft. | 347 | Light Almond | with photocell |
| 63338 | WIR-10-SR-C-D-G | PIR | Single | 1000 sq. ft. | 347 | Gray | with photocell |
| 63339 | WIR-10-SR-C-D-B | PIR | Single | 1000 sq. ft. | 347 | Black | with photocell |
| 63344 | WIR-10-DR-G-D-W | PIR | Dual | 1000 sq. ft. | 120/277 | White | with photocell |
| 63345 | WIR-10-DR-G-D-V | PIR | Dual | 1000 sq. ft. | 120/277 | Ivory | with photocell |
| 63346 | WIR-10-DR-G-D-A | PIR | Dual | 1000 sq. ft. | 120/277 | Light Almond | with photocell |
| 63347 | WIR-10-DR-G-D-G | PIR | Dual | 1000 sq. ft. | 120/277 | Gray | with photocell |
| 63348 | WIR-10-DR-G-D-B | PIR | Dual | 1000 sq. ft. | 120/277 | Black | with photocell |

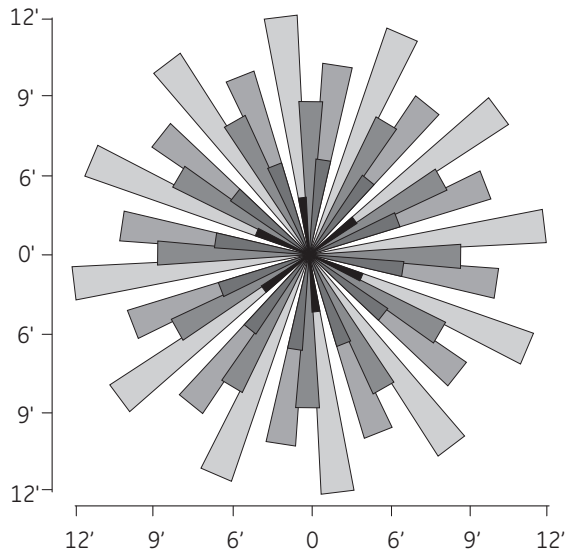
Controls

| Product Code | Description | Sensing Technology | Viewing Angle | Color | Additional Information |
|--|----------------|--------------------|---------------|--------------|------------------------|
| Occupancy Sensor (continued) | | | | | |
| GE Aware™ Wall Switch Sensors - Low Voltage | | | | | |
| 63393 | WIR-10-LV-W | PIR | 1000 sq. ft. | White | |
| 63394 | WIR-10-LV-V | PIR | 1000 sq. ft. | Ivory | |
| 63395 | WIR-10-LV-A | PIR | 1000 sq. ft. | Light Almond | |
| 63396 | WIR-10-LV-G | PIR | 1000 sq. ft. | Gray | |
| 63397 | WIR-10-LV-B | PIR | 1000 sq. ft. | Black | |
| 63398 | WIR-10-RR7-D-W | PIR | 1000 sq. ft. | White | for RR7 Relay |
| 63399 | WIR-10-RR7-D-V | PIR | 1000 sq. ft. | Ivory | for RR7 Relay |
| 63401 | WIR-10-RR7-D-A | PIR | 1000 sq. ft. | Light Almond | for RR7 Relay |
| 63403 | WIR-10-RR7-D-G | PIR | 1000 sq. ft. | Gray | for RR7 Relay |
| 63405 | WIR-10-RR7-D-B | PIR | 1000 sq. ft. | Black | for RR7 Relay |
| GE Aware™ High-Bay Fixture Mount Sensors - Line Voltage | | | | | |
| 64131 | HB-12-SR | PIR | Single | 120/277 | |
| 64132 | HB-12-SR-D | PIR | Single | 120/277 | with photocell |
| 64135 | HB-12-DR | PIR | Dual | 120/277 | |
| 64136 | HB-12-DR-D | PIR | Dual | 120/277 | with photocell |
| Photo Sensor | | | | | |
| GE Aware™ Stand-Alone Photo Sensor | | | | | |
| 65368 | PCD-IN-SA | | | | |

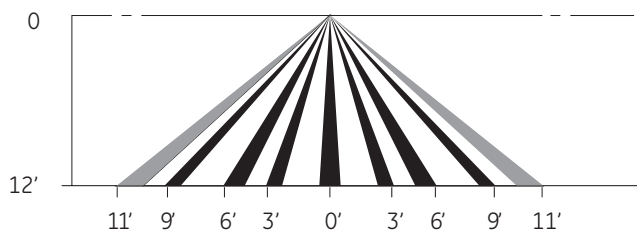
Coverage Diagrams

CIR-05-360-D

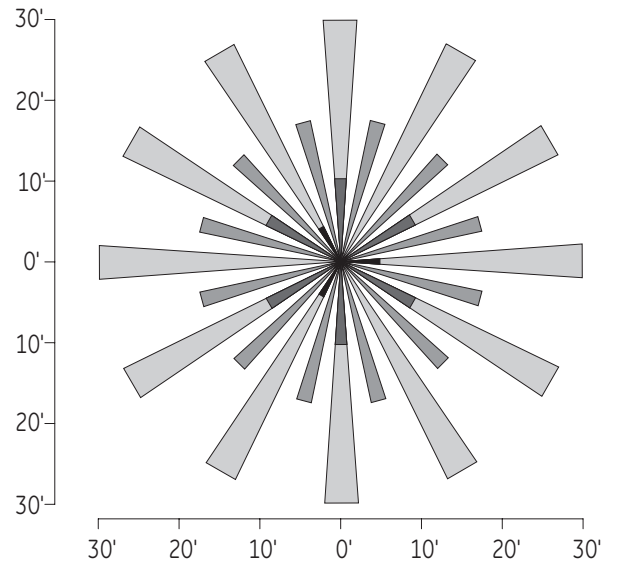
TOP VIEW



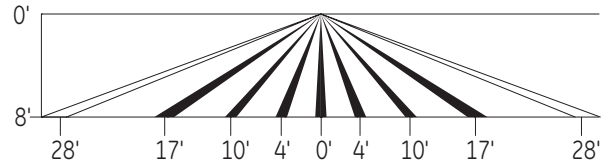
SIDE VIEW



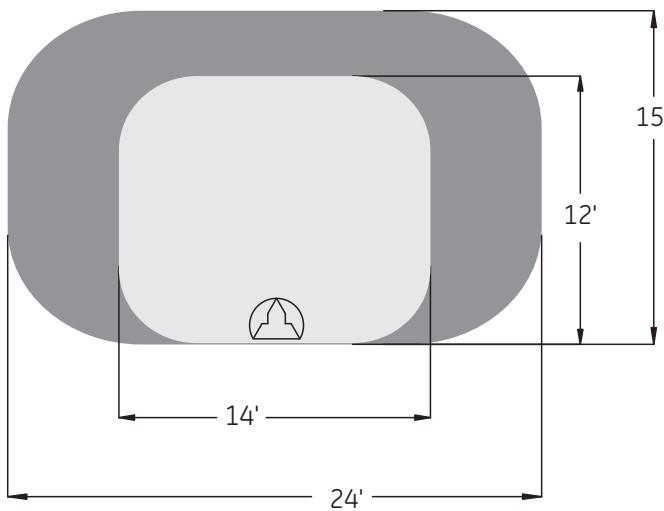
CIR-15-360-D



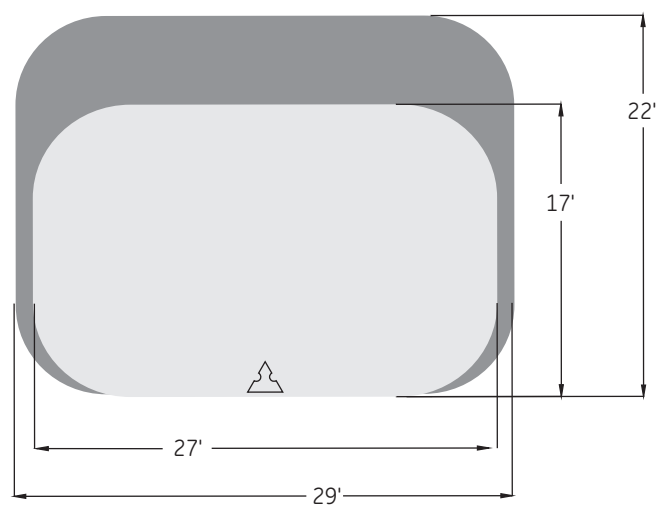
SIDE VIEW



CUS-05-180(-R)

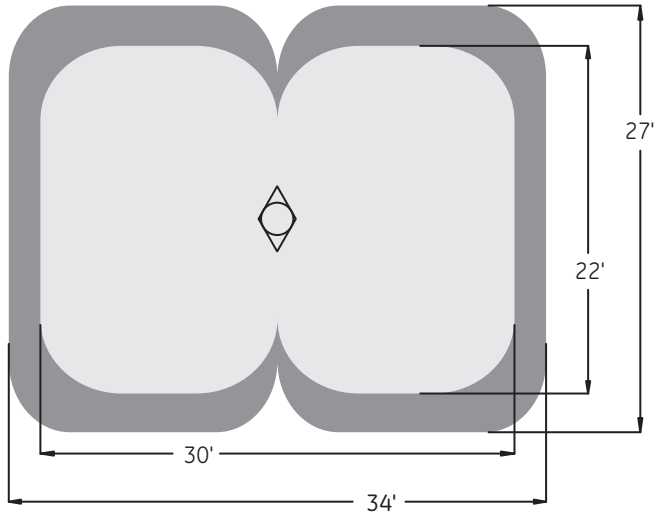


CUS-10-180(-R)

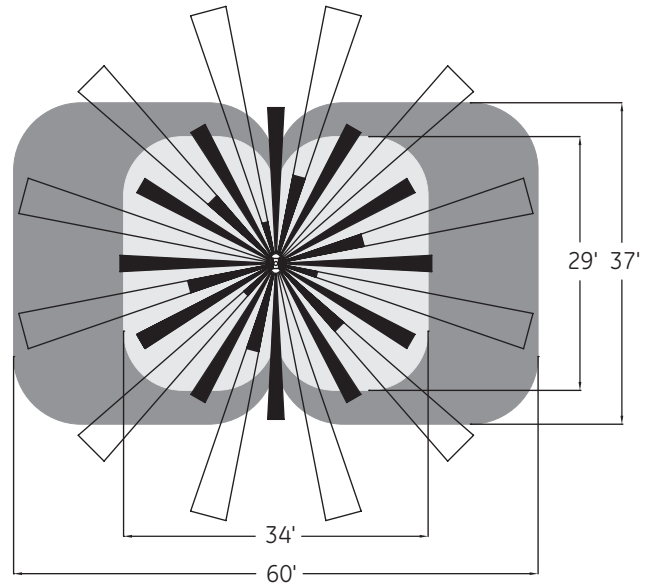


Controls

CUS-20-360(-R)

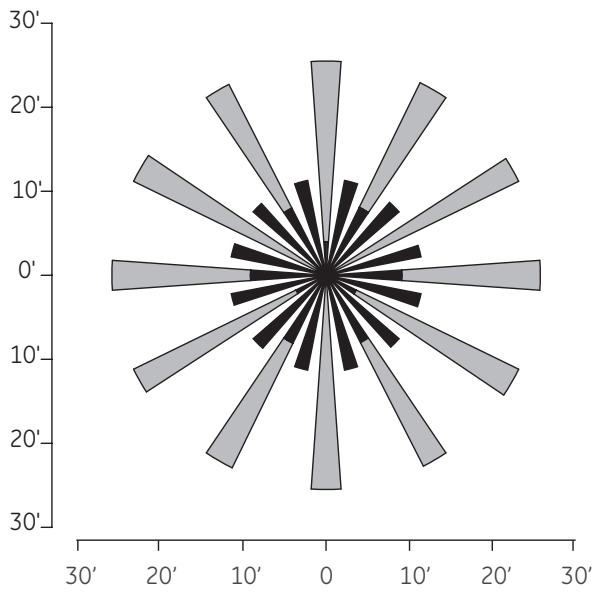


CDT-20-360-R

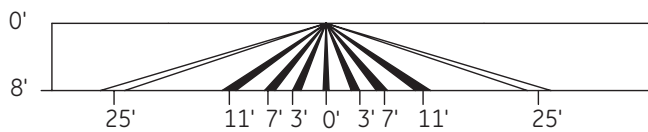


CIR-15-360-D-T

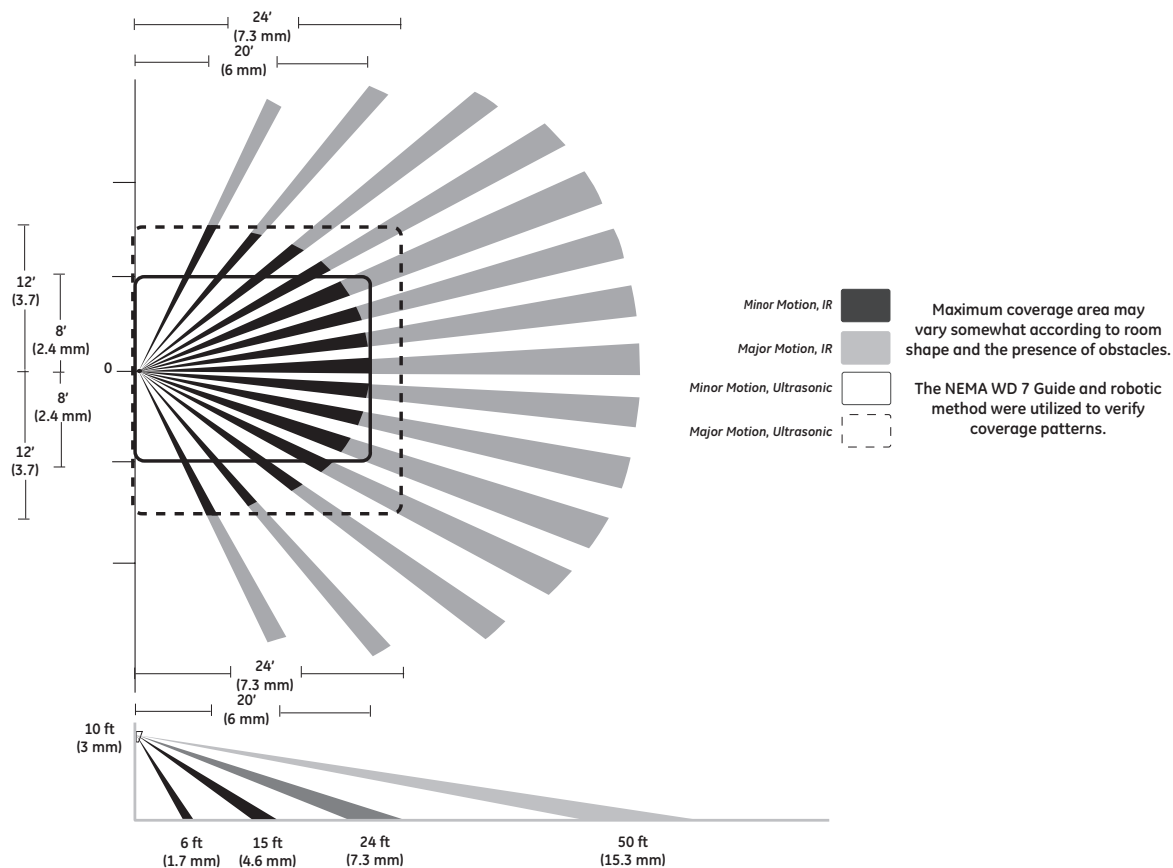
TOP VIEW



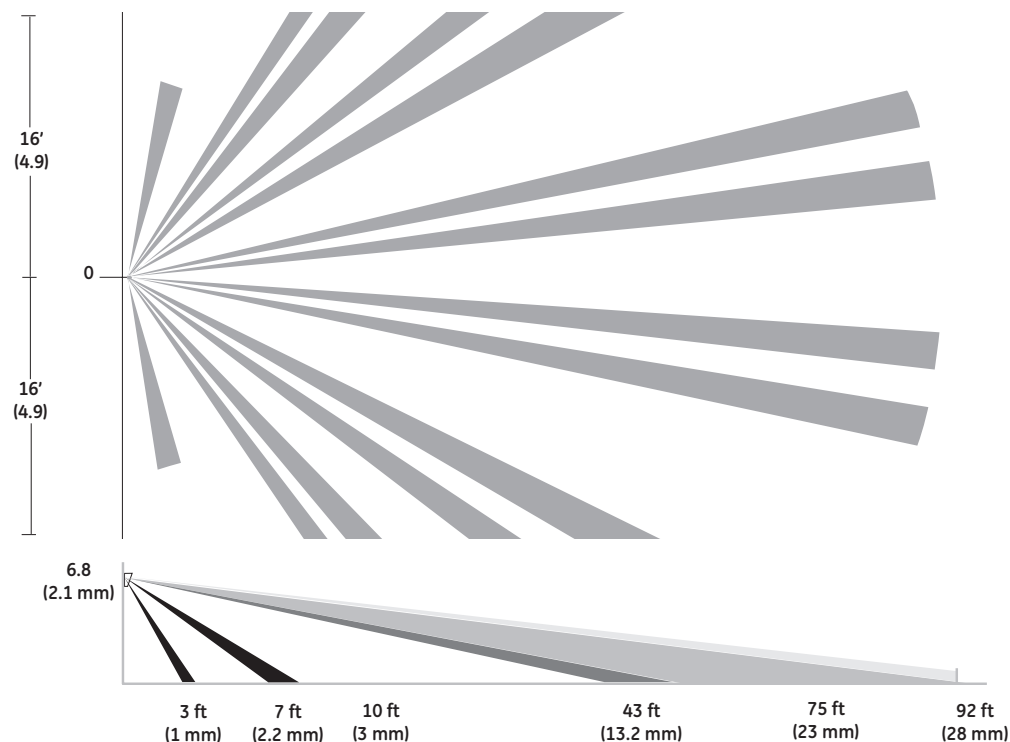
SIDE VIEW



SDT-WIDE (-D)

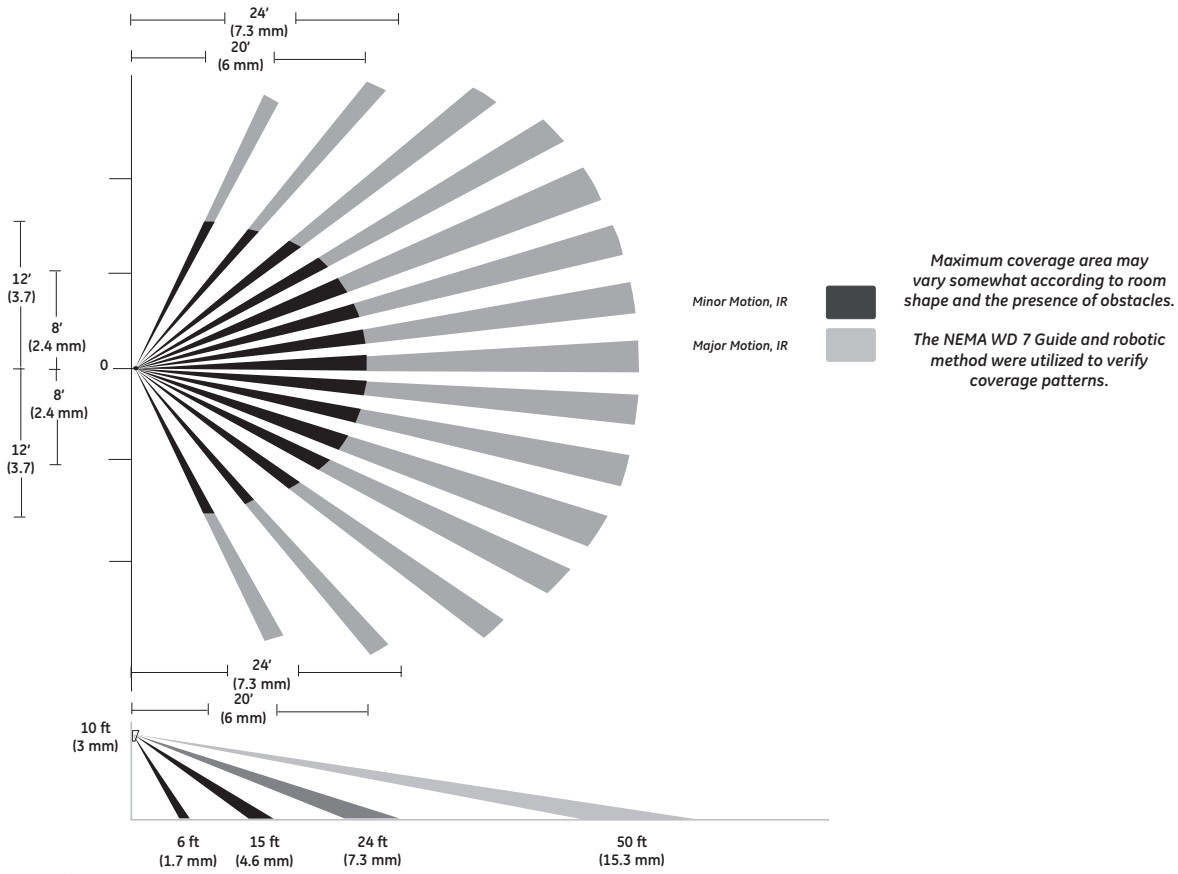


SIR-LONG (-D)

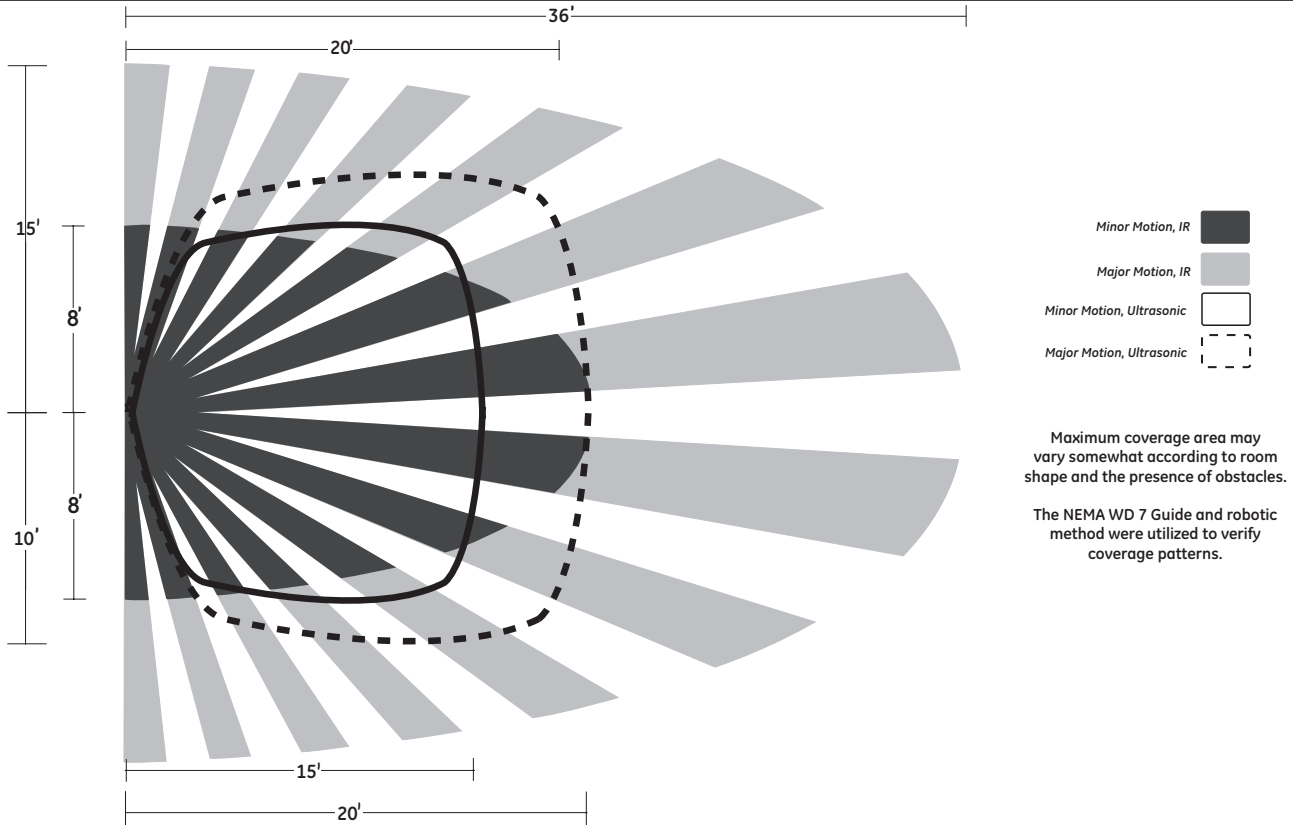


Controls

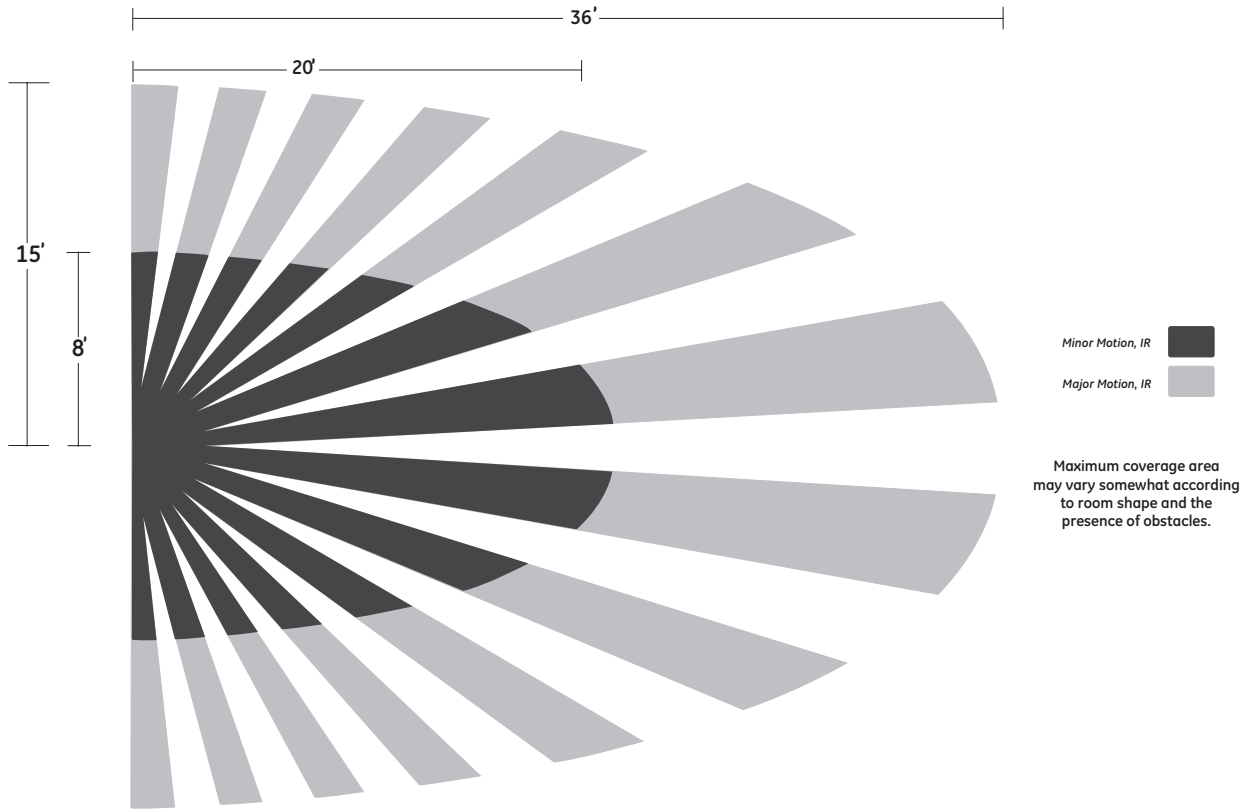
SIR-WIDE (-D)



WIR/WDT (all)



WIR(all)



Appendix

Lamp Sizing Guide

Lamp Size/Diameter

The diameter of a lamp, at its maximum dimension, is expressed in eighths of an inch. Examples: The diameter of an A19 lamp is 19-eighths of an inch, or 2-3/8", at its widest point. A T8 lamp has a diameter of 8-eighths, or one inch.

Light Center Length (L.C.L.)

The distance between the center of the filament, or arc tube, and a reference plane — usually the bottom of the lamp base. See L.C.L. Reference Plane Location chart below.

L.C.L. Reference Plane Location

| Base Type | Location |
|------------------------------------|--|
| All Screw Bases (except Mini-Can.) | Bottom of base contact |
| Mini-Can | Where diameter of ceramic base insulator is .531 inches |
| 3-Contact Medium | Bottom of base contact |
| Mogul Medium Prefocus | Top of base fins |
| Mogul Prefocus | Top of base fins |
| Medium BiPost | Base end of bulb (Glass lamps) Bottom of ceramic base (Quartz lamps) |
| Mogul BiPost | Shoulder of posts (Glass lamps) Bottom of ceramic base (Quartz lamps) |
| 2-Pin Prefocus | Bottom of ceramic base. |
| S.C. or D.C. Bayonet Candelabra | Top of base pins |
| Medium Bayonet | Top of base pins |
| S.C. or D.C. Prefocus | Plane of locating bosses on prefocus collar |
| Medium 2-Pin | Bottom of metal base shell |

Maximum Overall Length (M.O.L.)

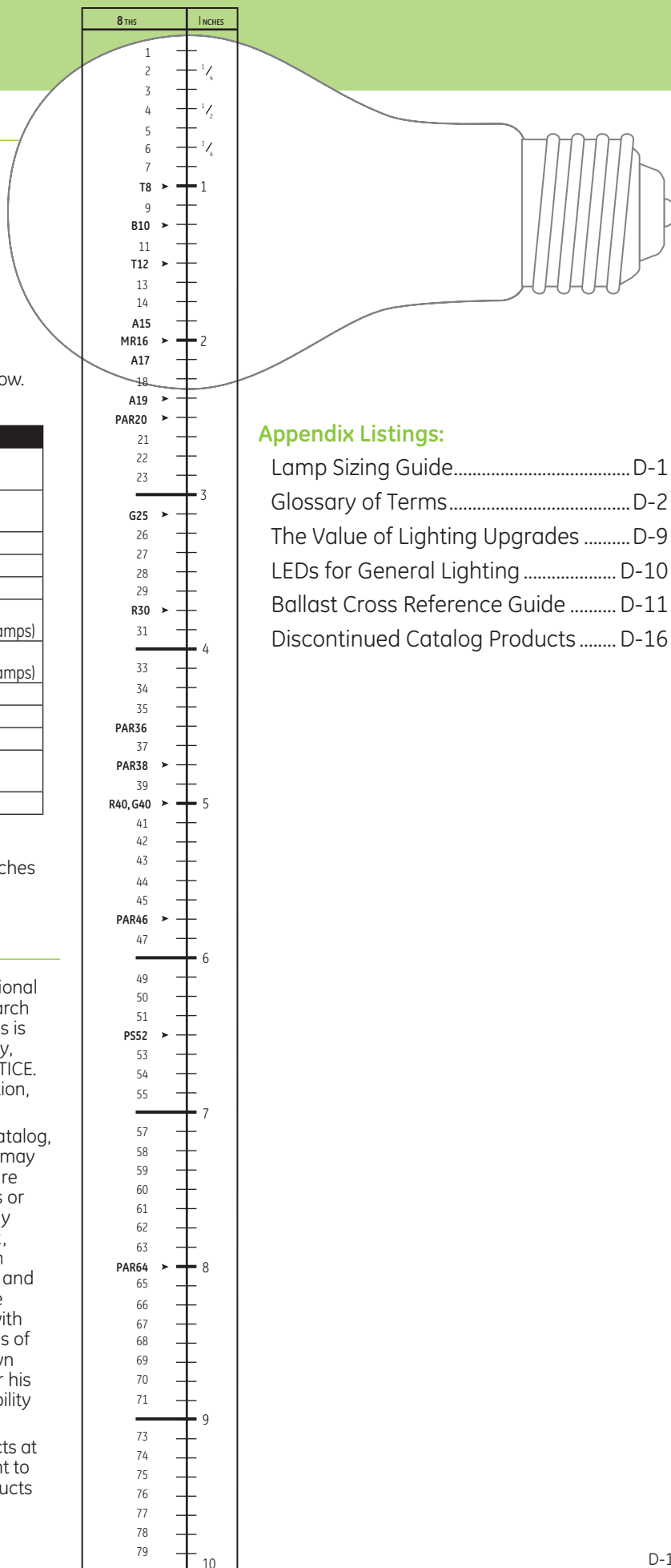
The end-to-end measurement of a lamp, expressed in inches or millimeters.

Important Notice

This catalog is a compilation of accumulated data. Additional information is constantly being uncovered through research and testing, which may modify the data given herein. This is particularly true of newer lamps and ballasts. Accordingly, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. For the latest lamp and ballast design data and information, contact your GE Representative.

The data and suggested applications contained in this catalog, as well as any additional information our representative may be able to furnish, are for general information only and are not intended and should not be taken as representations or warranties as to the suitability of a lamp or ballast for any particular application or use in any particular equipment, nor are our representatives authorized to make any such warranties. Applications and conditions of use are many and varied, and beyond our control. We cannot possibly have the same degree of knowledge that the purchaser has with respect to the design of his equipment and the conditions of its use. Therefore, it is up to the purchaser to make its own determination as to the suitability of a lamp or ballast for his intended application or use and to assume the responsibility for that determination.

General Electric desires to supply the best possible products at all times. For this reason, General Electric reserves the right to make changes in its products, and to introduce new products or discontinue existing ones without notice.



Appendix Listings:

Lamp Sizing Guide..... D-1
 Glossary of Terms..... D-2
 The Value of Lighting Upgrades D-9
 LEDs for General Lighting D-10
 Ballast Cross Reference Guide D-11
 Discontinued Catalog Products D-16

Glossary of Terms

Ambient Temperature

Ambient temperature which refers to the temperature inside the fixture in the air surrounding the fluorescent lamp or LED. Fluorescent lamp light output and LED life are affected by the ambient temperature.

Amperes

("Amps") A measure of electrical current. In incandescent lamps, the current is related to voltage and power as follows: Watts (power) = Volts x Amps (current).

ANSI (American National Standards Institute)

A consensus-based organization which coordinates voluntary standards for the physical, electrical and performance characteristics of lamps, ballasts, luminaires and other lighting and electrical equipment.

ANSI Ballast Type

A reference to the ANSI document describing the lamp which also lists the characteristics of the ballast required to operate the lamp. Technically, therefore, it is incorrect to refer to "Ballast Type" with the ANSI code but this misuse is common. The following naming system is used: H – mercury lamps; M – metal halide lamps; S – high pressure sodium lamps; L – low pressure sodium lamps.

ANSI Codes

These are 3-letter codes assigned by the American National Standards Institute. They provide a system of assuring mechanical and electrical interchangeability among similarly coded lamps from various manufacturers. General Electric uses the assigned ANSI Codes as lamp ordering codes for most projection lamps.

Auto Reset Shutdown Circuit

Circuit senses lamp end life and will automatically shut off power to the lamp(s). When a new lamp is inserted in the socket, the ballast resets, and turns on the lamp automatically. Some shutdown circuits require the power to be cycled before a new lamp will re-light.

Ballast

An auxiliary piece of equipment required to start and to properly control the flow of current to gas discharge light sources such as fluorescent and high intensity discharge (HID) lamps. Typically, magnetic ballasts (also called electromagnetic ballasts) contain copper windings on an iron core while electronic ballasts are smaller and more efficient and contain electronic components.

Ballast Efficacy Factor (BEF)

Defined as ballast factor x 100 divided by input watts. The value is used to evaluate various lighting systems based on light output and power input. The BEF can only be used to compare systems operating the same type and quantity of lamps.

Ballast Factor (BF)

This is the percentage of a lamp's rated lumen output that can be expected when operated on a specific, commercially available ballast. Note that the "rated output" is sometimes measured on a reference ballast unlike ones that actually operate the lamp in the field. For example, a ballast with a ballast factor of 0.93 will result in the lamp's emitting 93% of its rated lumen output. A ballast with a lower BF results in less light output and also generally consumes less power.

Ballast Hum

Sound generated by the vibration of laminations in the iron core of the transformer or inductor present in the ballast.

Ballast Losses

Power or energy dissipated in the ballast as heat and not converted to lamp energy.

Ballast Luminous Efficiency (BLE)

A new (2011) metric measuring the ratio of total fluorescent lamp arc power to the input power supplied to the ballast.

Base Temperature (Maximum)

The maximum operating temperature permitted for the base in Celsius. Fixture manufacturers need to ensure that these conditions are satisfied in their fixture.

Beam Angle

The angular dimension of the cone of light from reflectorized lamps (such as R and PAR types) encompassing the central part of the beam out to the angle where the intensity is 50% of maximum. The beam angle (sometimes called "beam spread") is often part of the ordering code for reflectorized lamps. Example: The 50PAR30/HIR/NFL25 is a 50 watt PAR30 narrow flood lamp with a beam angle of 25 degrees, i.e. 12.5 degrees on either side of the center (see FIELD ANGLE).

Bi-Pin

Any base with two metal pins for electrical contact. This is the typical base for a fluorescent tube of 1 to 4 feet in length. It consists of 2 prong contacts that connect into the fixture. Medium bi-pins are used with type T-8 and T-12 tubular fluorescent lamps, and miniature bi-pins are used for tubular T-5 fluorescent lamps.

Biax®

GE trademark for its biaxial family of high-efficiency and long-life compact fluorescent lamps. DBX (Double Biax), TBX (Triple Biax) and QBX (Quad Biax) refer to the number of U-shaped legs present in the lamp.

Bright from the Start™

A GE brand name for a family of hybrid compact fluorescent lamps (CFL) that eliminate the warm up time to full brightness associated with traditional CFLs.

British Thermal Unit (BTU)

Unit of energy used in HVAC calculations. 1 BTU = 1055 joules; 1kWh = 3412 BTU.

Bulb Size

Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch). For Compact Fluorescent products, "S", "D", "T", and "Q" are used to represent Single, Double, Triple and Quad Biax® sizes. The code also includes a reference such as T4 to represent the size of the tube. Rectangular headlamps are designated as "Rect" and the number of millimeters horizontally.

Canadian Energy Standards

Indicates ballast complies with Canadian Energy Standards and meets the requirements of CAN/CSA C654-M91.



Canadian Standards Association (CSA)

Association that generates product performance and safety standards for many Canadian industries.

Candela (cd)

The measure of luminous intensity of a source in a given direction. The term has been retained from the early days of lighting when a standard candle of a fixed size and composition was defined as producing one candela in every direction. A plot of intensity versus direction is called a candela distribution curve and is often provided for reflectorized lamps and for luminaires with a lamp operating in them.

Candlepower

An obsolete term for luminous intensity; current practice is to refer to this simply as candelas (see CANDELA).

Candlepower Distribution Curve

A graphical presentation of the distribution of light intensity of a light source, usually a reflector lamp or luminaire.

Capacitor

Device in ballast that stores electrical energy. Often used for power factor correction and lamp regulation.

Cathode

Metal filaments that emit electrons in a fluorescent lamp. Negatively charged free electrons emitted by the cathode are attracted to the positive electrode (anode), creating an electric current between the electrodes (see ELECTRODE).

Cathode Resistance

Resistance of the cathode in a Fluorescent lamp. It is measured "cold" before the lamp is turned on (Rc) or "hot" after the lamp is turned on (Rh). The ratio of the hot resistance to the cold resistance is also measured (Rh/Rc).

Center Beam Candlepower (CBCP)

Refers to the luminous intensity at the center of the beam of a blown or pressed reflector lamp (such as a PAR lamp). Measured in candelas (see CANDELA).

Ceramic Metal Halide

A type of metal halide lamp that uses a ceramic material for the arc tube instead of glass quartz, resulting in better color rendering (>80 CRI) and improved lumen maintenance. GE ConstantColor® CMH® lamps feature a 3-piece arc tube design that delivers excellent color consistency and lamp reliability.

ChromaFit™

A GE brand name for metal halide lamps designed to operate on HPS ballasts, allowing a user to switch from the yellowish color of HPS to the white color of metal halide without retrofitting ballasts. These products are available in both quartz metal halide and ceramic metal halide (CMH®) versions.

Class P Thermal Protector

A switching device sensitive to current and heat that automatically disconnects ballast if the temperature exceeds UL temperature limitations.

Coefficient of Utilization (CU)

In general lighting calculations, the fraction of initial lamp lumens that reach the work plane. CU is a function of luminaire efficiency, room surface reflectances and room shape.

Coil

Windings of copper or aluminum wire surrounding the steel core in ballast. Also refers to the entire assembly comprising the inductor or transformer.

Color Quality Scale (CQS)

A new color metric proposed by NIST (US National Institute of Standards) based on fifteen color chips instead of the eight used in CRI.

Color Rendering Index (CRI)

A measure of the ability of a light source to render object colors faithfully in comparison with a designated standard light source. Incandescent objects and daylight are both considered "standard" sources. Note that "standard" is defined for convenience in reproducibility rather than being based on user preference.

Color Temperature (Correlated Color Temperature – CCT)

A number indicating the degree of "yellowness" or "blueness" of a white light source. Measured in Kelvins, CCT represents the temperature an incandescent object (like a filament) must reach to mimic the color of the lamp. Yellowish-white ("warm") sources, like incandescent lamps, have lower color temperatures in the 2700K–3000K range; white and bluish-white ("cool") sources, such as cool white (4100K) and natural daylight (6000K), have higher color temperatures. The higher the color temperature the whiter, or bluer, the light will be.

Compact Fluorescent Lamp (CFL)

The general term applied to fluorescent lamps that are single-ended and that have smaller diameter tubes that are bent to form a compact shape. Some CFLs have integral ballasts and medium or candelabra screw bases for easy replacement of incandescent lamps.

ConstantColor®

A GE registered name for lamp families that show very little color shift over life, such as GE's Precise™ MR16 lamps and GE's ceramic metal halide (CMH®) lamps.

Cool White

A term loosely used to denote a color temperature of around 4100K. The Cool White (CW) designation is used specifically for T12 and other fluorescent lamps using halophosphors and having a CRI of 62.

Core

Component of electromagnetic ballast that is surrounded by the coil. Core is comprised of steel laminations or solid ferrite material.

Core & Coil Ballast

A ballast that uses a "Core & Coil" assembly to operate fluorescent or HID lamps. Refers to copper or aluminum windings on a steel core.

Cost of Light

Usually refers to the cost of operating and maintaining a lighting system on an ongoing basis. The 88-8-4 rule states that (typically) 88% is the cost of electricity, 8% is labor and only 4% is the cost of lamps.

covRguard®

A GE lamp encased by a plastic sleeve or coating to help contain glass fragments if the lamp breaks.

Crest Factor (Lamp Current Crest Factor)

Ratio of peak to RMS for any AC waveform. Crest factor can refer to voltage crest factor or current crest factor.

Current Type (AC/DC)

Whether the operational voltage is based on Alternating Current or Direct Current.

Daylight Harvesting

Lighting design for building interiors that

makes use of daylight as a way of reducing energy consumption.

Dimmer, Dimming Control

A device used to lower the light output of a source, usually by reducing the wattage it is being operated at. Dimming controls are increasing in popularity as energy conserving devices.

Discharge Lamp

A lamp where light is emitted from an electrical discharge between two electrodes as opposed to a filament lamp. Examples are: Fluorescent lamps and HID (High Intensity Discharge) lamps like Metal Halide, Mercury and High Pressure Sodium. All discharge lamps require some kind of current-limiting device, e.g. a ballast, to operate them.

Ecolux®

A brand for GE lamps that have reduced mercury content and pass the TCLP test.

Edison

GE's trademark for a wide range of halogen lamps for the consumer market.

Efficacy

A measurement of how effective the light source is in converting electrical energy to lumens of visible light. Expressed in lumens-per-watt (LPW), this measure gives more weight to the yellow region of the spectrum and less weight to the blue and red regions where the eye is not as sensitive. The efficiency of a light source is simply the fraction of electrical energy converted to light, i.e. watts of visible light produced for each watt of electrical power with no concern about the wavelength where the energy is being radiated. For example, a 100-watt incandescent lamp converts 7% of the electrical energy into light; discharge lamps convert 25% to 40% into light.

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Efficiency of Ballast

See Ballast Luminous Efficiency.

e-HID ballast (see ELECTRONIC HID BALLAST).**Electrical Discharge**

A condition under which a gas becomes electrically conducting and becomes capable of transmitting current, usually accompanied by the emission of visible and other radiation. An electric spark in air is an example of an electrical discharge, as is a welder's arc and a lightning bolt.

Electrical Testing Laboratory (ETL)

Independent testing laboratory that performs ballast tests and certifies accuracy of performance data.

Electrode

Any metal terminal emitting or collecting charged particles, typically inside the chamber of a gas discharge lamp. In a fluorescent lamp, the electrodes are typically metal filaments coated with special powders called emission mix.

Negatively charged free electrons emitted by one electrode are attracted to the positive electrode (anode), creating an electric current and arc between electrodes.

Electrodeless Lamps

Light sources where the discharge occurs in a chamber with no electrodes (no metal). The energy for the discharge is supplied by radio frequency excitation, e.g. microwaves (see INDUCTION LIGHTING and GENURA®).

Electromagnetic Ballast (see MAGNETIC BALLAST).**Electromagnetic Spectrum**

A continuum of electric and magnetic radiation that can be characterized by wavelength or frequency. Visible light encompasses a small part of the electromagnetic spectrum in the region from about 380 nanometers (violet) to 770 nanometers (red) by wavelength.

Electromagnetic Interference (EMI)

High-frequency electronic ballasts and other electronic devices can produce a small amount of radio waves that can interfere with radio and TV. Federally-mandated requirements must be met for EMI levels before an electronic device is considered FCC compliant (FCC is the Federal Communications Commission).

Electronic Ballast

A short name for a fluorescent high-frequency electronic ballast. Electronic ballasts use solid-state electronic components and typically operate fluorescent lamps at frequencies greater than 25 kHz. The benefits are: increased lamp efficacy, reduced ballast losses and lighter, smaller ballasts compared to electromagnetic ballasts. Electronic ballasts may also be used with HID (high intensity discharge) lamps (see MAGNETIC BALLASTS).

Electronic HID Ballast

An electronic ballast capable of operating an HID lamp. GE's UltraMax® (electronic HID ballast) operates PulseArc® (metal halide) and CMH® (ceramic metal halide) lamps between 250W and 400W and provides higher efficiency and significantly improved lumen maintenance over magnetic ballasts.

Elliptical Reflector (ER) Lamp

An incandescent lamp with a built-in elliptically shaped reflecting surface. This shape produces a focal point directly in front of the lamp which reduces light absorption in some types of luminaires. It is particularly effective at increasing the efficiency of baffled downlights.

Energy Policy Act (EPACT)

Comprehensive energy legislation passed by the U. S. Congress. The lighting portion includes lamp labeling and minimum energy efficacy (lumens/watt) requirements for many commonly used incandescent and fluorescent lamp types. Federal Canadian legislation sets similar minimum energy efficacy requirements for incandescent reflector lamps and common linear fluorescent lamps. Provisions for Tax Deductions expiring at the end of 2013.

ENERGY STAR®

As of this publication (2012) U.S. Department of Energy (DOE) designation for products meeting certain energy efficiency and performance standards. Among manufacturers of LEDs, GE has the largest number of ENERGY STAR® products as listed on the Federal Government's website.

EOL (End-of-Life Protection)

A circuit that senses that a lamp has reached

Glossary of Terms

end of life (compact fluorescent lamps and small-diameter linear fluorescent lamps) and turns off power to the lamp. Continuing to power the lamp beyond end of life can result in overheating of the lamp ends.

Federal Communications Commission (FCC)

The U. S. federal agency that regulates emissions in the radio frequency portion of the electromagnetic spectrum. Part 18 of the FCC rules specifies electromagnetic interference (EMI) from lighting devices at frequencies greater than 450 kilohertz (kHz). A consumer-rated Class B ballast is designed for use in the home near TV and radio receivers. It produces less electrical noise that could interfere with consumer products. A Class A-rated ballast is designed for use in commercial and industrial applications that are not in the vicinity of TV and radio receivers.

Field Angle

The angular dimension of the cone of light from reflectorized lamps (such as R and PAR types) encompassing the central part of the beam out to the angle where the intensity is 10% of maximum (see BEAM ANGLE).

Flicker

The periodic variation in light level caused by AC operation that can lead to strobe effects.

Fluorescent HO

Fluorescent HO and VHO lamps require special ballasts that generate higher currents than standard ballasts and operate the lamps at higher wattage than standard lamps. These lamps are generally less efficient than the standard product. Metal Halide HO and XHO lamps operate on the same ballasts as standard lamps and at the same wattage but are more efficient and produce higher light output than standard lamps.

Fluorescent Lamp

A high efficiency lamp utilizing an electric discharge through low pressure mercury vapor to produce ultra-violet (UV) energy. The UV excites phosphor materials applied as a thin layer on the inside of a glass tube which makes up the structure of the lamp. The phosphors transform the UV to visible light.

Footcandle (fc)

A unit of illuminance or light falling onto a surface. It stands for the light level on a surface one foot from a standard candle. One footcandle is equal to one lumen per square foot (see LUX).

Forward Current

The current in milliamperes or amperes that the driver is pushing through the LED. For a given LED package, the higher the forward current, the higher the light output, the lower the efficacy and the poorer the lumen maintenance and expected life.

Four-Pin Compact Fluorescent Lamps

A "plug-in" compact fluorescent lamp with 4 pins in the base to make electrical contact with the ballast. Four-pin lamps can be dimmed on appropriate dimming ballasts while two-pin lamps cannot.

Frequency

Rate of alternation in an AC current. Expressed in cycles per second or Hertz (Hz).

Full Spectrum Lighting

A marketing term, typically associated with light sources that are similar to some forms of natural daylight (5000K and above, 90+ CRI), but sometimes more broadly used for lamps that have a smooth and continuous color spectrum.

Genura®

GE's electrodeless compact fluorescent lamp, Genura®, uses induction to power the discharge. The chamber generates UV (just like a discharge in a regular fluorescent lamp) that is converted by phosphors to visible light. Because Genura® uses no electrodes, the life of this unique reflector lamp is longer than typical compact fluorescent products (see INDUCTION LIGHTING).

Glare

Visual discomfort caused by excessive brightness is called discomfort glare. If task performance is affected it is called disability glare. Glare can be direct glare or indirect (reflected) glare.

Group Relamping

The practice of replacing all the lamps at an installation at one time with new lamps when the lamps have operated for (typically) 65% to 70% of rated life. The two benefits of group relamping are: (1) reduced maintenance costs because of the expense and inconvenience of replacing failing lamps one at a time, and (2) improved appearance and performance since older lamps are often degrading in brightness and color as they age.

Halogen Lamp

A halogen lamp is an incandescent lamp with a filament that is surrounded by halogen gases, such as iodine or bromine. Halogen gases allow the filaments to be operated at higher temperatures and higher efficacies. The halogen participates in a tungsten transport cycle, returning tungsten to the filament and prolonging lamp life. All halogen lamps have a tungsten filament and, often, a quartz envelope.

HIR™

GE designation for high-efficiency tungsten halogen lamps. HIR lamps utilize shaped filament tubes coated with numerous layers of materials that transmit light but reflect the heat (infrared) back onto the filament. This reduces the power needed to keep the filament hot.

Harmonic

An integral multiple of the fundamental frequency (60 Hz) that becomes a component of the current.

Harmonic Distortion (see TOTAL HARMONIC DISTORTION or THD).

Hertz (Hz)

Unit used to measure frequency of alteration of current or voltage, in cycles per second.

Highbay Lighting

Lighting designed for (typically) industrial locations with a ceiling height of 25 feet and above.

High Intensity Discharge (HID) Lamp

A general term for mercury, metal halide (GE ConstantColor® CMH®, Multi-Vapor®, MXR or Arcstream®) and high-pressure sodium (GE Lucalox®) lamps. HID lamps contain compact arc tubes which enclose various gases and metal salts operating at relatively high pressures and temperatures.

High Output/Very High Output (HO, VHO) Lamps
Designation for lamps generating more light than standard lamps.

High Power Factor

A ballast whose power factor is corrected to 90% or greater.

High-Pressure Sodium (HPS) Lamp

HPS lamps are high intensity discharge light sources that produce light by an electrical

discharge through sodium vapor operating at relatively high pressures and temperatures. GE markets these lamps under the trade name of Lucalox®.

Hot Restart Time

If there is a momentary power interruption and the HID lamp goes out, there will be a delay of 10 to 15 minutes before the lamp has cooled down sufficiently to start again. This is called the Hot Restart time. PulseArc® lamps have a significantly shorter Hot Restart time (typically 3–5 minutes) than standard metal halide lamps. Lucalox® Standby lamps will start up immediately while standard Lucalox® lamps require a few minutes.

Ignitor

An electronic device providing a high voltage pulse to initiate an electrical discharge. Typically, the ignitor is paired with or is a part of the ballast.

Illuminance

The "density" of light (lumens/area) incident on a surface; i.e. the light level on a surface. Illuminance is measured in footcandles or lux.

Incandescent Lamp

A light source that generates light utilizing a thin filament wire (usually of tungsten) heated to white heat by an electric current passing through it.

Indirect Lighting

The method of lighting a space by directing the light from luminaires upwards towards the ceiling. The light scattered off the ceiling produces a soft, diffuse illumination for the entire area.

Induction Lighting

Gases can be excited directly by radio-frequency or microwaves from a coil that creates induced electromagnetic fields. This is called induction lighting and it differs from a conventional discharge, which uses electrodes to carry current into the arc. Induction lamps have no electrodes inside the chamber and generally, therefore, have longer life than standard lamps, but slightly reduced efficiency.

Infrared Radiation

Electromagnetic energy radiated in the wavelength range of about 770 to 1,000,000 nanometers. Energy in this range cannot be seen by the human eye, but can be sensed as heat by the skin.

Input Voltage

Power supply voltage required for proper operation of fluorescent or HID ballast.

Input Watts

The total power input to the ballast that includes lamp watts and ballast losses. The total power input to the fixture is the input watts to the ballast or ballasts and is the value to be used when calculating cost of energy and air conditioning loads. More than 90% of the input watts is wattage or power delivered to the lamp load with typical ballast.

Instant Start

A type of ballast designed to start fluorescent lamps as soon as the power is applied. Most T8 fluorescent lamps are being operated on electronic instant-start ballasts. Slimline fluorescent lamps operate only on instant-start circuits.

Instant-Start Lamp

A fluorescent lamp, usually with a single pin at each end, approved to operate on instant-start ballasts. The lamp is ignited by a high voltage without any filament heating.

Integral

A popular term for a compact fluorescent lamp that includes a built-in ballast (see CFL).

Joule

The fundamental unit of energy equal to 1 watt-second.

Kelvins (see COLOR TEMPERATURE).

Kilowatt (kW)

A measure of electrical power equal to 1000 watts.

Kilowatt Hour (kWh)

The standard measure of electrical energy and the typical billing unit used by electrical utilities for electricity use. A 100-watt lamp operated for 10 hours consumes 1000 watt-hours (100 x 10) or one kilowatt-hour. If the utility charges \$.10/kWh, then the electricity cost for the 10 hours of operation would be 10 cents (1 x \$.10).

L70, L85, etc.

L70 (or L85, etc.): The elapsed operating time over which a population of LED light sources will maintain 70% (or 85%) of its initial light output. This 70% number represents the expected median light output (which is close to the average light output) of the tested LED light source population. The value is often stated using the form L70(10K)= 50,000 Hours; this means that the LED light source's median light output reaches 70% of the initial light output at 50,000 Hours based on 10,000 hours of test data using TM-21 projection methods. When the L70 value is stated as "Reported" it means that tests have gone to at least 1/6th of the reported time as required by IESNA's TM-21 methodology. On the other hand, manufacturers will sometimes state a "Calculated" value of L70 which means they are using mathematical curve fitting and projection methods of TM-21 to project beyond 6 times the available test hours.

Laminations

Layers of steel, making up the "core" that is surrounded by the coils in a core & coil ballast.

Lamp

The term used to refer to the complete light source package, including the inner parts as well as the outer bulb or tube. "Lamp," of course, is also commonly used to refer to a type of small light fixture such as a table lamp.

Lamp Current Crest Factor

Ratio of peak lamp current to RMS or average lamp operating current.

Lamp Types

| | |
|------------------|--|
| Filament lamps: | Incandescent, Halogen, Halogen-IR®. |
| Discharge Lamps: | Fluorescent, HID (High Intensity Discharge) |
| HID Lamps: | Mercury, HPS (High-Pressure Sodium), MH (Metal Halide) and CMH® (Ceramic Metal Halide) |
| LED | Solid State Lighting Devices |

Lamp Watts

Power dissipated in the lamp—some of which is converted to light, some to heat and some to ultraviolet.

LED

Light Emitting Diode used as the primary light source in a wide array of LED lighting products. LEDs operate on low voltage DC. Also referred to as SSL (Solid State Lighting).

Life (see RATED LAMP LIFE).

Light

Radiant energy that can be sensed or seen by the human eye. Visible light is measured in lumens.

Light Center Length (L.C.L.)

The distance between the center of the filament, or arc tube, and a reference plane—usually the bottom of the lamp base.

Light Emitting Diode (LED)

A solid that directly converts electrical impulses into light. Some LEDs today incorporate fluorescent materials to change the color characteristics of the emitted light.

Light Loss Factor (LLF)

The product of all factors that contribute to lowering the illumination level including reflector degradation, dirt, lamp depreciation over time, voltage fluctuations, temperature effects, burn-out factor, etc.

LM79

Test procedures specified by the Illuminating Engineering Society for measurements on LED products (complete assembled systems) of lumens, watts and color in actual operating environments.

LM80

Test procedures specified by the Illuminating Engineering Society for measuring lumen depreciation of LED sources, arrays and modules—not luminaires. 6000 hour testing is minimum, but this standard does not provide methods for estimating life.

Lucalox®

The GE brand name for high-pressure sodium lamps.

Lumen

A measure of luminous flux or quantity of light emitted by a source. For example, a dinner candle provides about 12 lumens. A 60-watt Soft White incandescent lamp provides 840 lumens.

Lumen Depreciation, Lumen Maintenance

A measure of how well a lamp maintains its light output over time. It may be expressed numerically or as a graph of light output vs. time. The "mean lumens" of a lamp is the lumens at 40% of rated life (50% for HPS lamp).

Lumens Per Watt (LPW)

A ratio expressing the luminous efficacy of a light source.

Typical lamp efficacies:

| | |
|---------------------------------|---------|
| Edison's first lamp | 1.4 LPW |
| Incandescent lamps | 10-20 |
| Halogen lamps | 15-30 |
| Fluorescent lamps | 35-105 |
| LED Products | 45-100 |
| Mercury lamps..... | 50-60 |
| Metal halide lamps | 60-120 |
| High-pressure sodium lamps..... | 60-140 |

Note: The values above for discharge lamps do not include the effect of the ballasts, which must be used with those lamps. Taking ballast losses into account reduces "system" or lamp ballast efficacies typically by 10-20% depending upon the type of ballast used.

Luminaire

A complete lighting unit consisting of a lamp (or lamps), ballast (or ballasts) as required together with the parts designed to distribute the light, position and protect the lamps and connect them to the power supply. A luminaire is often referred to as a fixture.

Luminaire Efficiency

The ratio of total lumens emitted by a luminaire to those emitted by the lamp or lamps used in that luminaire.

Luminance

A photometric measure of "brightness" of a surface as seen by the observer, measured in candelas per square meter.

Luminous Efficacy

The light output (lumens) of a light source divided by the total power input (watts) to that source. It is expressed in lumens per watt (see LUMENS PER WATT).

Lux (lx)

A unit of illuminance or light falling onto a surface. Lux stands for the light level on a surface one meter from a standard candle. One lux is equal to one lumen per square meter. Ten lux approximately equals one footcandle (see FOOTCANDLE).

Magnetic Ballast

A ballast used with discharge lamps that consists primarily of transformer-like copper or aluminum windings on a steel or iron core. Also called "Core & Coil" (see ELECTRONIC BALLASTS).

Maximum Overall Length (M.O.L.)

The end-to-end measurement of a lamp, expressed in inches or millimeters.

Mean Lumens

The average light output of a lamp over its rated life. Based on the shape of the lumen depreciation curve, for fluorescent and metal halide lamps, mean lumens are measured at 40% of rated lamp life. For mercury, high-pressure sodium and incandescent lamps, mean lumen ratings refer to lumens at 50% of rated lamp life (see LUMEN MAINTENANCE).

Medium Base

Usually refers to the screw base typically used in household incandescent lamps. There is also the medium bi-pin base commonly used in T12 and T8 fluorescent lamps.

Mercury Lamp

A high-intensity discharge light source operating at a relatively high pressure (about 1 atmosphere) and temperature in which most of the light is produced by radiation from excited mercury vapor. Phosphor coatings on some lamp types add additional light and improve color rendering.

Metal Cases

Case design used in both magnetic and electronic ballasts. These ballasts are grounded once they are mounted to the fixture. They meet all safety codes, some of which do not allow plastic in open plenum areas.

Metal Halide Lamp

A high-intensity discharge light source in which the light is produced by the radiation from mercury, plus halides of metals such as sodium, scandium, indium and dysprosium. Some lamp types may also utilize phosphor coatings. GE trade names include: Multi-Vapor®, ConstantColor® CMH®, PulseArc®, StayBright®, Watt-Miser®, ChromaFit™ and Arcstream®.

Mogul Base

A screw base used on larger lamps, e.g. many HID lamps.

Mortality Curve

Lamps have a rated or expected life but individual failures occur earlier and some lamps will last

Glossary of Terms

longer. The mortality curve depicts the expected percent surviving in a group of lamps at various points between zero hours and rated life or beyond. The curve starts with 100% at zero hours and goes to 50% surviving at the rated life (e.g. 3000 hours or 20,000 hours, etc.) However, the shape of the curve between these two end points can vary depending on the lamp type. LEDs have a very different mortality curve from traditional products. See L70, L85 etc. Well-manufactured LEDs are expected to have very little actual "failures" in the traditional sense.

Mounting Height

Distance from the bottom of the fixture to either the floor or work plane, depending on usage.

Multi-Vapor®

A GE brand name for metal halide lamps.

Nanometer

A unit of wavelength equal to one billionth of a meter.

National Energy Standards for Fluorescent Ballasts

A federal law enacted in 1988 that sets energy standards for ballasts consistent throughout the United States.

National Electric Code (NEC)

A nationally accepted electrical installation code to reduce the risk of fire, developed by the National Fire Protection Association.

National Stock Number

The standardized part number used by the U.S. Government for procurement.

NOM

Laboratory that sets safety standards for building materials, electrical appliances and other products for Mexico.

Non-PCB Capacitor

Capacitor used in ballasts to help provide power factor correction. Contains no polychlorinated biphenyls and meets EPA requirements.

Normal Power Factor

Ballasts with power factor less than .90 that do not incorporate any means of Power Factor Correction.

Open Circuit Voltage (OCV)

Open Circuit Voltage measured across the socket the lamp screws into, with the ballast powered on. It is dangerous to stick a voltmeter into such a socket without precise knowledge of the ballast because high voltages and voltage pulses could be present.

Operating Voltage

For electrical discharge lamps, this is the voltage measured across the discharge when the lamp is operating. It is governed by the contents of the chamber and is somewhat independent of the ballast and other external factors.

PAR Lamp

PAR is an acronym for parabolic aluminized reflector. A PAR lamp, which may utilize either an incandescent filament, a halogen filament tube or an HID arc tube, is a precision pressed-glass reflector lamp. PAR lamps rely on both the internal reflector and prisms in the lens for the control of the light beam. Today it is common to refer to LED replacement products for PAR lamps as "LED PAR Lamps" even though there may be no parabolic reflector in the package.

Parallel Lamp Operation/Parallel Wiring

Refers to ballasts that employ multiple output current paths from a single ballast to allow lamps to operate independent of one another, allowing other lamps operated by the ballast to remain lit should companion lamp(s) fail (see SERIES LAMP OPERATION).

PCB (Polychlorinated Biphenyls)

Chemical pollutant formerly used in ballast capacitors that were part of ballasts. It is now illegal to use PCBs and most such ballasts have been replaced over time.

Phosphor

An inorganic chemical compound processed into a powder and deposited on the inner glass surface of fluorescent tubes and some mercury and metal-halide lamp bulbs. Phosphors are designed to absorb short-wavelength ultraviolet radiation and to transform and emit it as visible light.

Photometry

The measurement of light and related quantities.

Photopic (see SCOTOPIC/PHOTOPIC).

Potting

Material used to completely surround and cover components of some magnetic and electronic ballasts. Potting compound fulfills functions of protecting components, dampening sound, and dissipating heat.

Power Factor (PF)

A measure of the phase difference between voltage and current drawn by an electrical device, such as a ballast or motor. Power factors can range from 0 to 1.0 with 1.0 being ideal. Power factor is sometimes expressed as a percent. Incandescent lamps have power factors close to 1.0 because they are simple "resistive" loads. The power factor of a fluorescent and HID lamp system is determined by the ballast used. "High" power factor usually means a rating of 0.9 or greater. Power companies may penalize users for using low-power-factor devices.

Power Factor Corrected

Ballasts that incorporate a means of Power Factor Correction yielding power factor of 90% or greater.

Precise™

The GE trade name for the compact MR-16 and MR-11 low-voltage halogen dichroic cool beam reflectorized spot and flood lamps.

Preheat Circuit

A type of fluorescent lamp-ballast circuit used with the first commercial fluorescent lamp products. A push button or automatic switch is used to preheat the lamp cathodes. Starting the lamp can then be accomplished using simple "choke" or reactor ballasts. A preheat fluorescent lamp is one in which the filament must be heated by use of a starter before the arc is created. These lamps are typically operated with electromagnetic ballasts.

Product Code

It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

Programmed Rapid Start

Lamp starting method which preheats the lamp filaments while not allowing the lamp to ignite and then applies the open circuit voltage (OCV) to start the lamp. The user may experience a half- to one-second delay after turning on the

lamps while the preheating takes place. This type of starting circuit keeps lamp end blackening to a minimum and improves lamp life performance, especially in applications where the lamps are frequently switched on and off.

PulseArc®

GE metal halide lamp that provides improved lumen maintenance for longer useful life and extended relamp cycles. These products are designed to operate on ballasts that have ignitors to help with lamp starting.

Pulse Start

A lamp that requires an HID ballast with a high-voltage ignitor to start the lamp.

Quartz

A name for fused silica or melted sand from which many high-temperature containers are fashioned in the lighting industry. Quartz looks like glass but can withstand the high temperatures needed to contain high-intensity arc discharges.

Quartz-Halogen Lamp (see HALOGEN LAMP).

Quartzline®

A GE registered trademark term for some types of halogen lamps.

Radiation

A general term for the release of energy in a "wave" or "ray" form. All light is radiant energy or radiation, as is heat, UV, microwaves, radio waves, etc.

Rapid Start

Lamp starting method in which lamp filaments are heated while open circuit voltage (OCV) is applied to facilitate lamp ignition. A Rapid Start fluorescent lamp has two pins at each end connected to the filament. Some rapid start lamps may be instant-started without filament heat, for example, the F32T8 lamp.

Rapid Start Circuit

A fluorescent lamp-ballast circuit that utilizes continuous cathode heating, while the system is energized, to start and maintain lamp light output at efficient levels. Rapid start ballasts may be either electromagnetic, electronic or of hybrid designs. Full-range fluorescent lamp dimming is only possible with rapid start systems.

Rare Earths

A family of natural elements in the Periodic table. Rare earth compounds form an important part of the modern phosphors used in fluorescent lamps and LEDs.

Rated Lamp Life

For most lamp types, rated lamp life is the length of time of a statistically large sample between first use and the point when 50% of the lamps have died. It is possible to define "useful life" of a lamp based on practical considerations involving lumen depreciation, color shift and also on the need to reduce lamp replacement costs (see GROUP RELAMPING).

Reflector Lamp (R)

A light source with a built-in reflecting surface. Sometimes, the term is used to refer specifically to blown bulbs like the "R" and "ER" lamps; at other times, it includes all reflectorized lamps like PAR and MR.

Room Cavity Ratio (RCR)

A shape factor (for a room, etc.) used in lighting calculations.
 $RCR = 5H(L+W) / L \times W$, or, alternately,
 $RCR = (2.5) \text{ Total Wall Area} / \text{Floor Area}$.

Where H = height, L = length and W = width of the room. A cubical room will have an RCR of 10; the flatter the room the lower the RCR.

RP

A series of "Recommended Practices" issued by the Illuminating Engineering Society for various lighting applications, e.g. RP 1 for Office Lighting, RP 8 for Roadway Lighting, RP 29 for Museum Lighting, etc.

Scotopic/Photopic (S/P) Ratio

This measurement accounts for the fact that of the two light sensors in the retina, rods are more sensitive to blue light (scotopic vision) and cones to yellow light (photopic vision). The Scotopic/Photopic (S/P) Ratio is an attempt to capture the relative strengths of these two responses. S/P is calculated as the ratio of scotopic lumens to photopic lumens for the light source on an ANSI reference ballast. Cooler sources (higher-color-temperature lamps) tend to have higher values of the S/P Ratio compared to warm sources.

Self-Ballasted Lamps

A discharge lamp with an integral ballasting device allowing the lamp to be directly connected to a socket providing line voltage (see CFL).

Series Lamp Operation

Refers to ballasts that employ a single current path passing through all lamps operated by the ballast. If one lamp should fail, companion lamps operated by the same ballasts will also extinguish or dim.

Spacing to Mounting Height Ratio

Ratio of fixture spacing (distance apart) to mounting height above the work plane; sometimes called spacing criterion. It is OK to have fixture spaced closer than the spacing criterion suggested by the manufacturer but not farther, or you will get dark spots in-between fixtures.

Specification Series (SP) Colors

Energy-efficient, all-purpose tri-phosphor fluorescent lamp colors that provide good color rendering. The CRI for SP colors is 70 or above and varies by specific lamp type. See Lamp Color Chart on inside back cover.

Specification Series Deluxe (SPX) Colors

Energy-efficient tri-phosphor fluorescent lamp colors that provide better color rendering than Specification Series (SP) colors. The CRI for SPX colors is 80 or higher and varies by specific lamp type. All GE CFL products use SPX phosphors. See Lamp Color Chart on inside back cover.

Specification Series Deluxe eXtreme (SPXX) Colors

A color designation for GE ceramic metal halide lamps with superior color rendering ~ 90.

Specular Reflection

Reflection from a smooth, shiny surface, as opposed to diffuse reflection.

Spectral Power Distribution (SPD)

A graph of the radiant power emitted by a light source as a function of wavelength. SPDs provide a visual profile or "fingerprint" of the color characteristics of the source throughout the visible part of the spectrum. Also called "spectral curve" or "spectrum."

Spiral® Lamp

GE trademark for its helical family of high-efficiency, long-life compact fluorescent lamps.

Starcoat®

GE's special barrier coating applied on the inside

of all GE T8 fluorescent lamps, as well as some other lamp types, to enhance lamp life and deliver superior lumen maintenance.

Starter

An electronic module or device used to assist in starting a discharge lamp, typically by providing a high-voltage surge (see IGNITOR).

Starting Temperature (Minimum)

The minimum ambient temperature at which the lamp will start reliably on the ballast.

T12, T8, T5

A designation for the diameter of a tubular bulb in eighths of an inch; T12 is 12 eighths of an inch, or 1-1/2 inches; T8 is 1 inch, and so on.

Task Lighting

Supplemental lighting provided to assist in performing a localized task, e.g. a table lamp for reading or an inspection lamp for fabric inspection.

Terminal-to-Terminal Starting Lamp Voltage (VRMS) (Minimum or Maximum)

The minimum or maximum voltage allowed into lamp from ballast under varying conditions as specified.

TCLP Test

The Toxicity Characteristic Leaching Procedure (TCLP) test, specified in the Resource Conservation and Recovery Act (RCRA) of 1990, is used to characterize fluorescent lamp waste as hazardous or nonhazardous waste. The TCLP test measures the ability of the mercury and/or lead in a lamp to leach from a landfill into ground water.

THD (see TOTAL HARMONIC DISTORTION).

TM21

Technical Memorandum developed by the Illuminating Engineering Society to provide method for projecting lumen maintenance of an LED source, array or module as a function of temperature. This will allow LED Luminaire manufacturers to predict lumen depreciation in their fixtures, based on the operating temperature of the LED in that package. See also, "L70, L85, etc."

Total Harmonic Distortion (THD)

A measure of the distortion of the input current on alternating current (AC) power systems caused by higher order harmonics of the fundamental frequency (60Hz in North America). THD is expressed in percent and may refer to individual electrical loads (such as a ballast) or a total electrical circuit or system in a building. ANSI C82.77 recommends THD not exceed 32% for individual commercial electronic ballasts, although some electrical utilities may require lower THDs on some systems. Excessive THDs on electrical systems can cause efficiency losses as well as overheating and deterioration of system components.

Transients

High voltage surges through an electrical system caused by lightning strikes to nearby transformers, overhead lines or the ground. May also be caused by switching of motors or compressors, as well as by short circuits or utility system switching. Can lead to premature ballast failure (see TVSS).

TRIAC

Genericized tradename for "Triode for Alternating Current," a device at the heart of many common residential dimmers. TRIACs reduce the current by "chopping off" portions of the AC waveform, and

may adversely affect ballasts and drivers that are not designed to accept such waveform inputs.

Troffer

A long, recessed lighting unit, usually installed in an opening in the ceiling.

Tungsten Halogen Lamp (see HALOGEN LAMP).

TVSS

Transient Voltage Surge Suppressors, which will protect ballasts and other electronic equipment from transient high-voltage spikes that may be present in the power line.

Two-Pin Compact Fluorescent Lamps

Type of lamps that have the glow bottle starter built into the base of the lamp. Traditionally 2-pin lamps are designed to work with electromagnetic ballasts (see FOUR-PIN COMPACT FLUORESCENT LAMPS).

Ultra

A common way of referring to high-efficiency GE T8 family of lamps and Ballast that performs better than standard T8 lamps. Also refers to the system.

UltraMax® Ballast

A family of high-efficiency GE instant-start electronic linear fluorescent ballasts designed to optimize GE's T8 Ultra lamps for enhanced system energy savings. UltraMax® ballasts have a low lamp current crest factor and virtually "read" and adapt to incoming voltage from 108V to 305V. Other features include UL Type CC Anti-Arc Rating and anti-striation control to eliminate lamp striations and spiraling. GE also has an UltraMax® HID ballast which can operate PulseArc® and CMH® lamps anywhere from 250 watts to 400 watts and provides greatly improved lumen maintenance.

UltraStart® Ballast

A family of high-efficiency GE Program Start electronic linear fluorescent ballasts designed to optimize GE's T8 Ultra lamps in frequently switched applications. Instant-start ballast provides 10,000 starts. UltraStart® provides 100,000 to 200,000 starts. Use program start ballast to ensure long lamp life when turning lamps on and off more that twice a day.

Ultraviolet (UV) Radiation

For practical purposes, any radiant energy within the range of 100–380 nanometers. It is beyond the blue or violet region of the spectrum, and is invisible to the eye just like the silent "ultrasound" dog whistle is inaudible to the ear.

UV is divided into 3 regions:

| | |
|----------|---------------|
| UVC..... | 100 to 280 nm |
| UVB..... | 280 to 315 nm |
| UVA..... | 315 to 400 nm |

Some wavelengths (180–220) produce ozone, some (220–300) are bactericidal, some (280–320) erythema (redden human skin); others (320–400) cause secondary luminance (black light).

Ultra Watt-Miser®

GE's family of energy-saving T8 fluorescent lamps.



Underwriters Laboratories (UL)

A private organization which tests and lists electrical (and other) equipment for electrical and fire safety according to recognized UL and other standards. A UL listing is not an indication of overall performance. Lamps are not UL listed except for compact fluorescent lamp assemblies – those with screw bases and built-in ballasts.

Glossary of Terms

Uniform Product Code (UPC)

The 12-digit code on the saleable unit that is used for scanning at the register.

Veiling Reflection

Effective reduction in contrast between task and its background caused by the reflection of light rays; sometimes called "reflected glare." You might have dealt with veiling reflections when you have to tilt a shiny magazine to avoid glare so as to read it, or struggled with reading a computer monitor because of the reflection of a window or a light fixture.

Visual Comfort Probability (VCP)

For a given lighting scheme, VCP is a ratio expressed as a percent of people who, when viewing from a specific location and in a specified direction, find the system acceptable in terms of glare (see GLARE).

Volt

A measure of "electrical pressure" between two points. The higher the voltage, the more current will be pushed through a resistor connected across the points. The volt specification of an incandescent lamp is the electrical "pressure" required to drive it at its designed point. The "voltage" of a ballast (e.g. 277 V) refers to the line voltage it must be connected to.

Voltage

A measurement of the electromotive force in an electrical circuit or device expressed in volts. Voltage can be thought of as being analogous to the pressure in a waterline.

Voltage Surge

Transient spikes in line voltage that can be harmful to electronic equipment like computers and electronic ballasts. Surge suppressors are often used to protect against such transients.

Wall Temperature (Maximum Bulb)

The maximum operating bulb wall temperature in Celsius.

Warm-Up Time

HID lamps typically take a few minutes to warm up to full brightness after starting.

Warm-Up Time to 90%

The time it takes for a High Intensity Discharge lamp to reach 90% of light output after being turned on.

Warm White

Refers to a color temperature around 3000K, providing a yellowish-white light.

Watt

A unit of electrical power. Lamps are rated in watts to indicate the rate at which they consume energy (see KILOWATT HOUR).

Wattage Indicator Reduced

Indicates that this is a reduced wattage option for lamps normally used in this application. Be sure to check wattage, lumens and life to determine which lamp is best suited to your needs.

Watt-Miser®

A Watt-Miser® lamp is a term used by GE to indicate a reduced-wattage lamp with performance characteristics (life, light output, etc.) such that it can usually directly replace a higher-wattage product. Watt-Miser® lamps are available in a wide range of incandescent, fluorescent and HID lamp types.

Wavelength

The distance between two neighboring crests of a traveling wave. The wavelength of light is between 400 and 700 nanometers.

The Value of Lighting Upgrades

About 35% of the electricity bill of commercial and industrial buildings is lighting. Upgrading to more energy-efficient lighting is an easy way to significantly reduce the overhead costs of running a business. Additional savings can be realized from using long-life lamps that reduce maintenance costs. Further, energy-efficient lighting also reduces the air-conditioning load on the HVAC system and provide greater energy savings.

Users need to be reminded that energy is usually the highest portion of the cost of lighting. A single T12 lamp will use about \$100 of energy over its life; a single 400W metal halide lamp will use over \$1000 in energy over life.

Remember, the products currently used in many buildings today are using products that are effectively obsolete due to technology improvements that have occurred over the last few years. There are several additional reasons to consider lighting upgrades today.

- 1) Legislation: many less-efficient products are being phased out by Government regulation. In each case there are better, more efficient, longer life replacements available that bring benefit both to the end-user and to the national economy because of energy savings.
- 2) Energy Reduction, both direct and indirect HVAC
- 3) Improvements in ambiance, productivity and user-satisfaction
- 4) Maintenance savings from longer life products
- 5) Environmental benefits from reduced energy consumption leading to reduced emissions, reduced or no-mercury, longer life.
- 6) Rebates offered by many utility companies. These rebates may go away as more and more inefficient products are eliminated
- 7) Tax deduction provisions of the Energy Policy Act (EPASCT) for lighting upgrades completed by end of 2013

Upgrades can involve something as simple as unscrewing the old bulb and screwing in the new bulb. However, in many cases ballasts and lamps are replaced in the existing fixture, or a retrofit kit is used to insert new holders and reflectors. Sometimes it is economically justified to replace the entire fixture with a new fixture.

Affected products that have been eliminated by legislation or are facing elimination in the immediate future based on efficiency requirements are listed in the next column:

Products Eliminated by Legislation

Incandescent Bulbs: Incandescent bulbs convert only 4% to 7% of the electrical energy into light; the rest is wasted as heat. Legislation in the US and many other countries is progressively banning the use of incandescent bulbs in most regular applications. A single incandescent 100-watt bulb operated for an entire year (8760 hrs.) will require the burning of over 1000 pounds of coal in a coal-fired power plant to generate the electricity it uses. Replacing it with an efficient LED or CFL (Compact Fluorescent Lamp) will cut energy consumption and greenhouse gas emission by 75% in addition to saving over \$70 per socket at the prevailing average national energy rate of 11 cents per kWh. These products also last 10 times to 30 times longer!

Halogen Reflector Lamps: Although more efficient than standard incandescent lamps, halogen lamps are still using a hot tungsten filament to generate light. The latest HIR+ products from GE use an infra-red reflecting film in the filament tube, and silverized reflectors to increase performance. Upgrading to these HIR+ products or to significantly more efficient, long life LED products provide significant energy savings. In many cases CMH (ceramic Metal Halide) reflector lamps can be considered, either with integral ballasts or with external ballasts. Halogen floods can be replaced with CFLs.

T12 Linear Fluorescent Lamps and some lower-performing T8s: These have been legislated away since very efficient, high-performance T8 systems are available. Also, LED fixtures are becoming a viable option to be considered for offices and classrooms. It is possible to obtain up to 45% energy savings with out loss of light when upgrading from T12 systems.

Standard Metal Halide lamps and ballasts: The old "probe start" metal halide lamps on magnetic ballasts are now eliminated by legislation for new construction, although replacement products for existing installations are still available. Upgrade options include Pulse-Start or CMH (Ceramic Metal Halide) on magnetic or electronic ballasts. For Industrial and High-bay attractive financial returns can be obtained by going to multi-lamp T8 or T5/HO fixtures. In outdoor lighting applications like parking lots and roadway, many users are upgrading from HID to LED fixtures for energy and maintenance savings.

Contact your GE distributor or GE sales rep for a simple lighting audit and a financial analysis of the benefits of lighting upgrades at your facility.

LEDs for General Lighting

LED (Light Emitting Diode) is a semiconductor chip that emits visible light when energized. LEDs are also referred to as solid state lighting (SSL) devices.

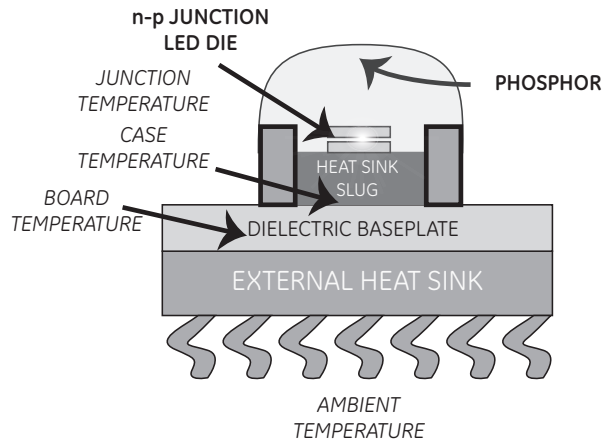
One of the first references to LEDs came in 1907 when Marconi's assistant Henry Round reported it in a letter to *Electrical World* after observing light emission from carborundum (silicon carbide, SiC). Round was experimenting with cat's whisker detectors, a device used in early crystal radios. Later, in 1920 the Russian scientist Oleg Losov studied the phenomenon in greater detail, publishing a number of papers on the current-voltage characteristics of SiC.

However the modern father of visible LEDs is considered to be Nick Holonyak who invented a red LED in 1962 while working at a GE lab in Syracuse, NY. Later, he moved to the University of Illinois at Urbana and a student of his, George Craford went on to invent yellow, orange and green LEDs. Finally, in the 1990s, several researchers at Nichia laboratories in Japan found ways to make efficient blue LEDs and the modern white LED was born.

Light emission from LEDs

LEDs are made of semiconducting material, not unlike what is found in transistors and computer chips. Electrons from the "n" or negative material flow into the "p" or positive material across a junction, where they encounter "holes". When an electron falls into a hole a photon is emitted corresponding in energy to the energy lost by the electron.

If this primary photon is in the blue region of the spectrum, it is possible to add phosphors that absorb the high energy blue photon and re-emit lower energy photons of green, yellow, orange or red colors. Based on the thickness and composition of the phosphor, the color of the LED source can be changed from blue to cool white to very warm white. In general, the higher color temperature LEDs (cool color) have less phosphors and are more efficient with higher lumens per watt (LPW). Warm LEDs have to use more phosphor and pay a small price in LPW if the warmer color is desired.



Schematic of an LED Device

Key determinants of performance

Long-term performance of LEDs is critically determined by the junction temperature of the LED—the junction being the layer where most of the primary light emission is occurring. Even though each individual LED generates only about a watt of heat, this heat can destroy the semiconductor material if it is not rapidly conducted away.

The LED chip manufacturer will often rate the LED at 100,000 hours based on the junction temperature being kept below a specified point. If overheated, a 100,000 hour LED can easily die in 10,000 hours or 1000 hours, or even 100 hours.

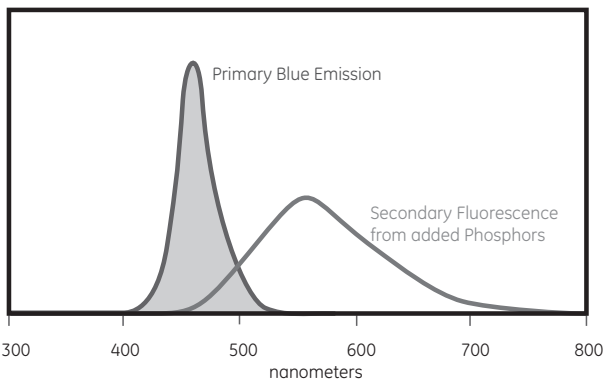
Thermal management of the LED, achieved through well designed heat-sinks and conduction paths is the key factor that determines LED longevity. Reliable life testing of LEDs in the finished configuration under field conditions is the only way to determine how long an actual lamp or fixture is likely to last. ANSI standard TM21 specifies how to test and rate LED life and all reputable LED manufacturers will refer to this document to validate their life ratings.

Sorting (binning) of LEDs

LED manufacturers constantly work to manage process variation and maximize yield. To this end, LEDs are sorted by three criteria—forward voltage, light output and color—and placed in appropriate "bins." ANSI requirements call for roughly a "seven step" equivalent cell, each step being the minimum color difference perceptible to the human eye. However, for more demanding applications, it is possible to pay a little more and require tighter binning, e.g. to three-steps.

The Future of LEDs

LEDs are the most promising breakthrough in Lighting in half a century. The boundaries of efficiency and life are being extended almost on a daily basis. The US Department of Energy says, "... Light Emitting Diodes (LEDs), has the potential to revolutionize the efficiency, appearance, and quality of lighting as we know it." Some experts estimate that LEDs might approach 200 lumens per watt within a few years.



Obtaining white light from blue LEDs

Ballast cross reference matrix

| Prod Code | Description | Advance P/N | Universal P/N | OSI P/N |
|--|-------------------|-----------------------------|-----------------------------|---|
| T8 Fluorescent Ballasts | | | | |
| T8 INSTANT START BALLASTS | | | | |
| UltraMax® Professional Series Instant Start Multi-Voltage High Efficiency | | | | |
| 72258 | GE132MAXP-L/ULTRA | IOP-1P32LW-SC | B132IUNVEL-A | QHE1X32T8/UNV ISL-SC-1 |
| 72259 | GE132MAXP-N/ULTRA | IOP-1P32-SC | B132IUNVHE-A | QHE 1X32T8/UNV ISN-SC-1 |
| 63885 | GE132MAXP-H/ULTRA | IOP-1P32HL-SC | | NA |
| 73190 | GE232MAXP-H/ULTRA | IOP-2P32HL-SC | B232IUNVHEH-A | QHE2X32T8/UNV-HT-SC-1 |
| 72262 | GE232MAXP-L/ULTRA | IOP-2P32LW-SC | B232IUNVEL-A | QHE2X32T8/UNV ISL-SC-1 |
| 72266 | GE232MAXP-N/ULTRA | IOP-2P32-SC | B232IUNVHE-A | QHE 2X32T8/UNV ISN-SC-1 |
| 71421 | GE232MAXP-N+ | | NA | QHE 2X32T8/UNV ISM-SC |
| 71714 | GE332MAXP-H/ULTRA | IOP-3P32HL-90C-SC | B332IUNVHEH-A | NA |
| 71717 | GE332MAXP-L/ULTRA | IOP-3P32LW-SC | B332IUNVEL-A | QHE3X32T8/UNV ISL-SC-1 |
| 71719 | GE332MAXP-N/ULTRA | IOP-3P32-SC | B332IUNVHE-A | QHE 3X32T8/UNV ISN-SC-1 |
| 71422 | GE332MAXP-N+ | | | QHE 3X32T8/UNV ISM-SC |
| 71723 | GE432MAXP-H/ULTRA | IOP-4P32HL90CG | | QHE4X32T8/UNV-HT-SC-1 |
| 71725 | GE432MAXP-L/ULTRA | IOP-4P32LW-SC | B432IUNVEL-A | QHE4X32T8/UNV ISL-SC-1 |
| 71727 | GE432MAXP-N/ULTRA | IOP-4P32-SC | B432IUNVHE-A | QHE 4X32T8/UNV ISN-SC-1 |
| 74117 | GE632MAXP-H90 | | NA | NA |
| 71423 | GE432MAXP-N+ | | NA | QHE 4X32T8/UNV ISM-SC |
| 72261 | GE159MAXP-N/ULTRA | IOP-2P59-SC | NA | NA |
| 73199 | GE259MAXP-L/ULTRA | | B259I120HPL / B259I277HPL | QHE 2x59T8/UNV-ISI-SC |
| 49767 | GE259MAXP-N/ULTRA | IOP-2P59-SC | NA | QHE 2x59T8/UNV ISN-SC-B |
| UltraMax® Professional Series Instant Start 347V High Efficiency | | | | |
| 67435 | GE232MAXP347-N+ | NA | NA | |
| 74093 | GE232MAXP347-N | GOPA-2P32-SC | | QHE2X32T8/347 ISN-SC |
| 74094 | GE332MAXP347-N | GOPA-3P32-SC | | QHE3X32T8/347 ISN-SC |
| 74095 | GE432MAXP347-N | GOPA-4P32-SC | | QHE4X32T8/347 ISN-SC |
| 74096 | GE232MAXP347-L | GOPA-2P32-LW-SC | B232I347L-A, B232I347HPL | QHE2X32T8/347 ISL-SC, QT2X32T8/347 ISL-SC |
| 74097 | GE332MAXP347-L | GOPA-3P32-LW-SC | B332I347L, B332I347HPL | QHE3X32T8/347 ISL-SC |
| 74098 | GE432MAXP347-L | GOPA-4P32-LW-SC | B432I347L, B432I347HPL | QHE4X32T8/347 ISL-SC, QT4X32T8/347 ISL-SC |
| 74109 | GE232MAXP347-H | | | QT2X32T8/347 ISH-SC |
| 74111 | GE332MAXP347-H | | B332IHRVH-E, B332IHRVHB-E | |
| 74113 | GE432MAXP347-H | | | |
| UltraMax® Professional Series T8 Instant Start 480V High Efficiency | | | | |
| 62718 | GE232MAXP480-H | | | |
| 62719 | GE332MAXP480-H | | B332IHR VHB-E | |
| 62720 | GE432MAXP480-H | | | QHE4X32T8/347-480 ISH-HT |
| UltraMax® General Series T8 Multivolt 120V - 277V | | | | |
| 72269 | GE132MAX-G-N | ICN-1P32-SC / IOPA-1P32-SC | B132IUNVHP-B | QTP 1X32T8/UNV ISL-SC/ QHE 1X32T8/UNV ISN-SC |
| 74803 | GE232MAX-G-H | IOPA-2P32-HL | B232I120RHH-A/B232I277RHH-A | QTP 2X32T8/UNV ISH-SC/ QHE 2X32T8/UNV ISH-SC |
| 67911 | GE432MAX-G-H | IOP-4P32HL-SC | B432I277HEH | |
| 72273 | GE232MAX-G-L | ICN-2P32LW-SC / IOPA-2P32LW | B232I120L-A/B232I277L-A | QTP 2X32T8/UNV ISL-SC/ QHE 2X32T8/UNV ISL-SC |
| 72275 | GE232MAX-G-N | ICN-2P32-SC / IOPA-2P32-SC | B232IUNVHP-B | QTP 2X32T8/UNV ISN-SC/ QHE 2X32T8/UNV ISN-SC |
| 74461 | GE332MAX-G-H | IOPA-3P32-HL | B332I120RHH-A/B332I277RHH-A | QTP 3X32T8/UNV ISH-SC/ QHE 3X32T8/UNV ISH-SC |
| 74459 | GE332MAX-G-L | ICN-3P32LW-SC / IOPA-3P32LW | B332I120L-A/B332I277L-A | QTP 3X32T8/UNV ISL-SC/ QHE 3X32T8/UNV ISL-SC |
| 74456 | GE332MAX-G-N | ICN-3P32-SC / IOPA-3P32-SC | B332IUNVHP-B | QTP 3X32T8/UNV ISN-SC/ QHE 3X32T8/UNV ISN-SC |
| 69711 | GE432MAX-G-H | IOPA-4P32-HL | B432I120RHH-A/B432I277RHH-A | QHE 4X32T8/UNV ISH-SC |
| 74466 | GE432MAX-G-L | ICN-4P32LW-SC / IOPA-4P32LW | B432I120L-A/B432I277L-A | QTP 4X32T8/UNV ISL-SC/ QHE 4X32T8/UNV ISL-SC |
| 30193 | GE432MAX-G-N | ICN-4P32-SC IOPA-4P32SC | B432IUNVHP-B | QTP 4X32T8/UNV ISN-SC/ QHE 4X32T8/UNV ISN-SC |
| 72271 | GE159MAX-G-N | | | |
| 74469 | GE259MAXP-G-N | NA | B259IUNVHP-B | QTP 2X59T8/UNV ISN-SC/ QHE 2X59T8/UNV-ISN-SC |
| UltraMax® Professional Series T8 Instant Start High Output | | | | |
| 63888 | GE286MAXP-HO-N | ICN-2S86 | B286I120RH / B286I277RH | QHE 2X86T8HO/UNV-PSN-HT-SCL/ QHE2X59T8/UNV-ISH |
| UltraMax® General Series T8 Multivolt 347V | | | | |
| 74101 | GE132MAX-G-N-347 | | B132I347HP, B132I347RH | QHE1X32T8/347 ISN-SC, QTP1X32T8/347 /ISN-SC |
| 74103 | GE232MAX-G-N-347 | | B232I347HP-A, B232I347RH-A | QTP2X32T8/347 ISN-SC |
| 74105 | GE332MAX-G-N-347 | | B332I347HP | QT3X32T8/347 ISN-SC |
| 74107 | GE432MAX-G-N-347 | | B432I347HP, B432I347RH | QT4X32T8/347 ISN-SC |
| 74099 | GE259MAX-G-N-347 | | B259I347HP | QT2X59/347 IS |

Ballast cross reference matrix (cont.)

| Prod Code | Description | Advance P/N | Universal P/N | OSI P/N |
|--|-------------------|-------------------------------|---------------------------|-------------------------------|
| T8 Fluorescent Ballasts - Continued | | | | |
| T8 INSTANT START BALLASTS - CONTINUED | | | | |
| Residential Grade ProLine® T8 120V | | | | |
| 97782 | GE232-120-RES | REB232-SC | B232I120RES-A | QTR 2x32T8/120 ISN-SC |
| 97783 | GE432-120-RES | REB4P32-SC | B432I120RES-A | QTR 4x32T8/120 ISN-SC |
| Electromagnetic T8 Ballasts | | | | |
| 87125 | GEM232T8RS120 | R-2P32-TP | M232SR120C | |
| T8 PROGRAM START BALLASTS | | | | |
| UltraStart® T8 Program Rapid Start | | | | |
| 75952 | GE132-MVPS-L | IOP-1S32-LW-SC | | QTP 1x32T8/UNV PSX-TC |
| 75953 | GE132-MVPS-N | IOP-1S32-SC | B132PUNVHP-A | QTP 1X32T8/UNV PSN-TC |
| 75954 | GE132-MVPS-H | | | |
| 96714 | GE232-MVPS-N | IOP-2S32-SC | B232PUNVHP-A | QTP 2X32T8/UNVPSN-TC |
| 96720 | GE232-MVPS-L | IOP-2S32-LW-SC | | QTP 2X32T8/UNV PSX-TC |
| 29675 | GE-232-MVPS-H | | | QHE2x32T8/UNV-PSH-HT |
| 29671 | GE-232-MVPS-XL | | | |
| 29676 | GE-332-MVPS-H | | | |
| 96715 | GE332-MVPS-N | IOP-3S32-SC | B332PUNVHP-A | QTP 3X32T8/UNVPSN-SC |
| 96721 | GE332-MVPS-L | IOP-3S32-LW-SC | | QTP 3X32T8/UNV PSX-SC |
| 29672 | GE-332-MVPS-XL | | | QHE3x32T8/UNV-PSH-HT |
| 96716 | GE432-MVPS-N | IOP-4S32-SC | B432PUNVHP-A | QTP 4X32T8/UNVPSN-SC |
| 71832 | GE432-MVPS-L | IOP-4S32-LW-SC | | QTP 4X32T8/UNV PSX-SC |
| 29678 | GE-432-MVPS-H | | | QHE4x32T8/UNV-PSH-HT |
| T8 Bi-Level Instant Start Step Dimming 100% to 60% | | | | |
| 73233 | GE232MAXP90-S60 | | | |
| 73231 | GE332MAXP90-S60 | | | |
| 73229 | GE432MAXP90-S60 | | | |
| 71497 | GE632MAXP-H90-S60 | | | |
| T8 Bi-Level Instant Start Load Shedding 100% to 60% | | | | |
| 73234 | GE232MAXP90-V60 | | | |
| 73232 | GE332MAXP90-V60 | | | |
| 73230 | GE432MAXP90-V60 | | | |
| 71731 | GE632MAXP-H90-V60 | | | |
| T8 Bi-Level Program Start Step Dimming 100% to 30% | | | | |
| 68966 | GE132MVPS-N-S30 | | | |
| 68967 | GE232MVPS-N-S30 | IOP-232-SC-SD | B232PUS50PLA | QHE2x32T8PSN |
| 68968 | GE132MVPS-L-S30 | | | QHE2x32T8PSL |
| T8 Program Start 0-10v Dimming 100% to 3% | | | | |
| 75379 | GE132MVPS-N-V03 | IZT-132-SC | B132R120V5 / B132SR277V5 | |
| 75380 | GE232MVPS-N-V03 | IZT-232-SC/ILV-2S32-SC | B232SR120V5 / B232SR277V5 | |
| 75381 | GE332MVPS-N-V03 | IZT-332-SC | B332SR120V5 / B332SR277V5 | |
| 75382 | GE432MVPS-N-V03 | IZT-432-SC/ILV-4S32-G | B423SR120V5/ B432SR277V5 | QTP 4x32T8/ 277 DIM PLUS-TCL |
| 75383 | GE232MVPS-H-V03 | | | |
| 75384 | GE332MVPS-H-V03 | | | |
| 75385 | GE432MVPS-H-V03 | | | |
| T5 Fluorescent Ballasts | | | | |
| T5 ELECTRONIC PROGRAMMED START BALLASTS | | | | |
| UltraStart® T5 Programmed Rapid Start | | | | |
| 68994 | GE228MVPSH-MC-H | IOP2S28115SC | B228PUNV115-D | QTP2X28T5/UNVPSN NL |
| 68993 | GE228MVPS-MC | IOP2S2895SC | B228PUNV95-D | QTP2X28T5/UNVPSN-E |
| 68976 | GE-224MVPS-N | ICN-2S24 | B224PUNV-D | QTP2X39-24T5HO/UNVPSN NL |
| 47540 | B239PUNV-D | ICN-2S39 | B239PUNV-D | QTP2X39-24T5HO/UNVPSN NL |
| 67562 | GE254MVPS90-A | ICN-2S54-90C | B254PUNV-D | QTP 2X54T5HO/UNV PSN HT |
| 33957 | GE254MVPS-D-1 | ICN-2S54 | B254PUNV-D | QTP2X54T5HO/UNVPSN NL |
| 94131 | GE454MVPS90-E-S | ICN4S5490C2LSG | B454PUNV-E | QTP 4X54T5HO/UNV PSN HTW NL |
| 67566 | GE454MVPS90-F | ICN4S5490C2LS | | QTP 4X54T5HO/UNV PSN HT |
| 72280 | GE180MVPS-D | ICN-1S80-120V / ICN-1S80-277V | ES4515K | QTP1X80T5HO/UNVPSN NL |
| UltraStart® T5 Programmed Rapid Start 347-480V | | | | |
| 62728 | GE254PS347/480-F | HOP2PSP54L/347-480V | B254PHRVHB-E | QHE2x54T5HO/347-480PSN-HT |
| 62729 | GE254PS347-F | HOP2PSP54L/347V | | |
| 62730 | GE454PS347/480-E | HOP4PSP542LSG/347-480V | | QHE4x54T5HO/347-480PSN-HT-SCL |
| 62731 | GE454PS347-F | HOP4PSP542LSG/347V | | |

| Prod Code | Description | Advance P/N | Universal P/N | OSI P/N |
|---|--------------------|--|---------------------------------|--|
| T12 Fluorescent Ballasts | | | | |
| T12 ELECTRONIC BALLASTS | | | | |
| ProLine® T12 Multivolt 120V - 277V | | | | |
| 74472 | GE-240-RS-MV-N | ICN-2S40-N | B240R120HP/B240R277HP | QTP2X40T12/120RSN-SC / QTP2x40T12/277 RSN-SC |
| 97498 | GE240RS120 | REL-2S40-SC/RELB-2S40-SC | B234SR120M-A | QTP2X40T12/120RSN-SC |
| 75672 | GE140RS120 | REL-1S40-SC | B134SR120M-A | QTP1X40T12/120/277RSN-SC |
| 74474 | GE-260-IS-MV-N | R2E75STP | B260IUNVHP | QT2x96/120IS/QT2x96/277IS |
| 75671 | GE296HO-MV-N | REL/VEL-2P60-S-A/REL/VEL-2S110 | B295SR UNVHP/120HP/277HP | QT2x96/120HO/QT2x96/277HO |
| Magnetic Ballast | | | | |
| 68190 | GEM1FC16T9RS120 | RMS-3240-TP-W | 726VLHWSTCP | |
| 68193 | GEM1FC8T9RS120IP | RLQS-122-TP-W | 547RSWSTCP | |
| 89717 | GEM1FC12T9RS120 | RS-22-32-TP-W | 449LRWSTCP | |
| 68192 | GEM220TS120DIY | RS-2SP20-TP | 447LRVLTCP | |
| T12 Electronic for Magnetic | | | | |
| 72110 | GE140RS120 DIY RES | LC-14-20-C-TP/ HM1P30TPI | 200H2 | |
| 72110 | GE140RS120 DIY RES | RLQ-120-TP | 546BTCP | |
| 72110 | GE140RS120 DIY RES | R-140-TP | 412LSLHTCP | |
| 72110 | GE140RS120 DIY RES | RL-140-TP | 413CTCP | |
| 97498 | GE240RS120 RES | R2S34-TPI/ RS240TPI | 420LTCP | |
| 97498 | GE240RS120 RES | RM2SP30TPI | 446LSLHTCP | |
| 74472 | GE-240-RS-MV-N | V2S40TP / V2S34TPI/ V140TPI | 443LSLHTCP | |
| 74472 | GE-240-RS-MV-N | MTM-2S40-TP | 754LTCP | |
| 74474 | GE-260-IS-MV-N | RSM175STP/ SM140STPI / SM2E40STPI | 822BRTCP | |
| 74474 | GE-260-IS-MV-N | VSM175STP | 828BRTCP | |
| 74474 | GE-260-IS-MV-N | R2E75STP | 806SLHTCP | |
| 74474 | GE-260-IS-MV-N | V2E75STP | 827SLHTCP | |
| 75671 | GE296HO-MV-N | R-2S110-TP/ RC2S85TPM | 480SLHTCP | |
| 75671 | GE296HO-MV-N | V-2S110-TP/ VC2S85TPM | 487SLHTCP | |
| Sign Ballasts | | | | |
| 72103 | GESB-0412-12-IP | ASB-0412-12-BL-TP | USB-0412-12-IP | MSB-12-0412-TP |
| 72104 | GESB-0620-24-IP | ASB-0620-24-BL-TP | USB-0816-14-IP | MSB-24-0620-TP |
| 72105 | GESB-1224-24-IP | ASB-1224-24-BL-TP | USB-1024-14-IP | MSB-24-1224-TP |
| 72106 | GESB-1240-46-IP | ASB-1240-46-BL-TP | USB-2036-46-IP | MSB-46-1240-TP |
| 72107 | GESB-2040-46-IP | ASB-2040-24-BL-TP | USB-1632-24-IP | MSB-24-2040-TP |
| 72108 | GESB-2448-46-IP | ASB-2448-46-BL-TP | USB-2048-46-IP | MSB-46-2448-TP |
| Compact Fluorescent Ballasts | | | | |
| CFL ELECTRONIC | | | | |
| 63091 | GEC213-MVPS-BES | ICF-2S13-BS | C213UNVBES | QTP1/2X13CF/UNVBES |
| 63092 | GEC213-MVPS-SE | ICF-2S13-LD | C213UNVBES | QTP1/2X13CF/UNVTS |
| 63089 | GEC213-MVPS-3W | ICF-2S13-H1-LD-K | C213UNVME00K | QTP 1/2x13CF/UNV |
| 63094 | GEC218-MVPS-BES | ICF-2S18-BS | C218UNVBES | QTP1/2X18CF/UNVBES |
| 63096 | GEC218-MVPS-SE | ICF-2S18-LD | C218UNVBES | QTP1/2X18CF/UNVTS |
| 63093 | GEC218-MVPS-3W | ICF-2S18-H1-LD-K | C218UNVME000K | QTP 1/2x18CF/UNV |
| 63098 | GEC226-MVPS-BES | ICF-2S26-BS | C2642UNVBES-IP | QTP2X26CF/UNVBES |
| 63099 | GEC226-MVPS-SE | ICF-2S26-LD | C2642UNVSE-IP | QTP2X26CF/UNVTS |
| 63097 | GEC226-MVPS-3W | ICF-2S26-H1-LD-K | | QTP 1/2x26CF/UNV |
| 63101 | GEC242-MVPS-BES | ICF-2T42-M5-BS | C2642UNVBE | QTP2X26/32/42CF/UNVPM |
| 63102 | GEC242-MVPS-SE | ICF-2T42-M5-LS | C2642UNVSE | QTP2X26/32/42CF/UNVTM |
| 63100 | GEC242-MVPS-3W | ICF-2T42-M5-BS | C2642UNVSE | QTP2X26/32/42CF/UNVTM |
| 75948 | GEC140MAX-A | ICN-1TTP40 | | |
| 75950 | GEC225MVPS-A | | | |
| 71437 | GEC240MVPS-A | REL-2TTS40 | C240PUNVHP-B-IP | QHE 1x40/UNV DL ISN-SC |
| 71435 | GEC240MAX-A | RCN-2TTP40-SC / VCN2TTP40-SC / ICN-2TTP40-SC | C240SI120RH-IP / C240SI277RH-IP | QHE 2x40/UNV DL ISN-SC |
| 71436 | GEC340MAX-A | RCN-3TTP40-SC / VCN-3TTP40-SC / ICN3TTP40-SC | C340SI120RH-IP/C340SI277RH-IP | QHE 3x40/UNV DL ISN-SC |
| 87533 | GEM1CF13PH120 | LC-13-TP | 4111H2P | |
| 87655 | GEM2CF13PH277 | VH-2B13-TP-BLS | 4214PBES | |

Ballast cross reference matrix (cont.)

| Prod Code | Description | Advance P/N | Universal (Vossloh Schwabe) | OSI P/N |
|-------------------------------------|-----------------|---------------|-----------------------------|------------------------------|
| HID Electronic Ballasts | | | | |
| 87490 | GEMH20-MLF-120 | RMH-G20-K | M2012CK-7EUN-F | QTP1X20MH/UNV F |
| 74115 | GEMH20-MC-120 | RMH-G20-K | M2012CK-7EUN-F | |
| 63042 | GEMH20-MSJ-MV | IMH-G20-G | M2012-27CK-6EU-J | |
| 63043 | GEMH20-MSF-MV | IMH-G20-G | M2012-27CK-5EU-F | |
| 75378 | GEMH39-MCM-120 | RMH-39-K | M3912CK-7EUN | |
| 74116 | GEMH39-MC-120 | RMH-39-K | M3912CK-6EUN-F | |
| 87501 | GEMH39-MSF-120 | RMH-39-K | M3912CK-7EUN | QTP1X39MH/UNV F |
| 63044 | GEMH39-MSJ-MV | IMH-39-G | M3912-27CK-5EU | |
| 63045 | GEMH39-MSF-MV | IMH-39-E | M3912-27CK-6EU-F | |
| 87531 | GEMH70-MSF-120 | IMH-70-G | M7012CK-6EUN-F | QTP1X70MH/UNV F |
| 87546 | GEMH70-SLJ-MV | IMG-70-G | M7012-27CK-5EU | QTP1X70MH/UNV J |
| 87561 | GEMH100-SLJ-MV | IMG-100-A-BLS | M10012-27CK-5EU-F | QTP1X100MH/UNV J |
| 87576 | GEMH150-SLJ-MV | IMG-150-H-BLS | M15012-27CK-5EU-J | |
| HID Electromagnetic Ballasts | | | | |
| Metal Halide | | | | |
| 63073 | GEM50MLTLA3D-5 | 71A5181-500D | M50MLTLC3M500K | M50/MULTI-KIT |
| 86847 | GEM70MLTLA3D-5 | 71A5280-500D | M70MLTLC3M500K | M70/MULTI-KIT |
| 78517 | GEM70TRILC3-5 | 71A52A2-001D | M70TRILC3M502K | |
| 67337 | GEM7048TLA3D-5 | NA | M7048TLC3M500K | |
| 86675 | GEM100MLTLA3D-5 | 71A5390-001D | M100MLTLC3M500K | M100/MULTI-KIT |
| 78519 | GEM100TRILC3-5 | 71A53A0-001D | M100TRIL3M502K | |
| 67333 | GEM10048TLA3D-5 | 71A5340-500DT | M10048TLC3M500K | |
| 86718 | GEM150MLTLC3D-5 | 71A5492-500D | M150MLTLC3M500K | M150/MULTI-KIT |
| 78520 | GEM150TRILC3-5 | 71A54A2 | M150TRIL3M502K | |
| 86711 | GEM15048TLC3D-5 | 71A5442-500DT | M15048TLC3M500K | |
| 63078 | GEM175ML5AA3-5 | 71A3042-001D | M175ML5AC3M500K | |
| 78521 | GEM175TRIAC3-5 | 71A55A0-0001D | M175TRIAC30502K | |
| 86741 | GEM175MLTAA3-5 | 71A5570-001D | M175MLTAC3M500K | M175/MULTI-KIT |
| 87211 | GEM250ML5AC3-5 | 71A5750-001D | M250ML5AC3M500K | |
| 86741 | GEM250MLTAA3-5 | 71A3542-001D | M250MLTAC3M500K | M1250/MULTI-KIT |
| 78522 | GEM250TRIAC4-5 | 71A56A0-001D | M250TRIAC4M502K | |
| 87212 | GEM250ML5AA4-5 | 71A5750 | M250ML5AC4M500K | |
| 72300 | GEM400ML5AA4-5 | 71A6051-001D | M400ML5AC4M500K | |
| 72149 | GEM400MLTAA4-5 | 71A6071-001D | M400MLTAC4M500K | M400/MULTI-KIT |
| 78523 | GEM400TRIAC4-5 | 71A60A1-001D | M400TRIAC4M502K | |
| 63070 | GEM40048TAA4-5 | 71A6042-500DT | M40048TAC4M500K | |
| 78524 | GEM1000TRIAC5-5 | 71A67A2-001 | M1000TRIAC5M502K | |
| 63069 | GEM100048TAA5-5 | 71A6542-001 | M100048TAC5M500K | M1000/480-KIT |
| 87213 | GEM1000ML5AA5-5 | 71A6552-001 | M1000ML5AC5M500K | |
| 86655 | GEM1000MLTAA5-5 | 71A6572-001 | M1000MLTAC5M500K | M1000/MULTI-KIT |
| 86693 | GEM150048TAC5-5 | 71A6742-001 | M150048TAC5M500K | M1500/480-KIT |
| 86698 | GEM1500MLTAC5-5 | 71A6772-001 | M1500MLTAC5M500K | M1500/MULTI-KIT |
| Pulse Start | | | | |
| 67335 | GEP175MLTAA3-5 | 71A5593-001D | P175MLTAC3M500K | |
| 78525 | GEP175TRIAC3-5 | 71A55A3 | P175TRIAC3M502K | |
| 86876 | GEP17548TAC3-5 | 71A5543-500DT | P17548TAC3M500K | |
| 78526 | GEP200TRIAC3-5 | 71A56A2 | P200TRIAC3M502K | |
| 67344 | GEP250MLTAA4-5 | 71A5792-001D | P250MLTAC4M500K | M250/MULTI-PS-KIT |
| 78527 | GEP250TRIAC4-5 | 71A57A2 | P250TRIAC4M502K | |
| 86926 | GEP25048TAC4-5 | 71A5742-500DT | P25048TAC4M500K | M250/480-PS |
| 86959 | GEP320MLTAC4-5 | 71A5892-001D | P320MLTAC4M500K | M320/MULTI-PS-KIT |
| 78528 | GEP320TRIAC4-5 | 71A59A2 | P320TRIAC4M502K | |
| 67342 | GEP32048TAA4-5 | 71A5842-500DT | P32048TAC4M500K | M320/480-PS-KIT |
| 78529 | GEP350TRIAC4-5 | 71A59A3 | P350MLTAC4M500K | |
| 67346 | GEP350MLTAA4-5 | 71A5993-001D | P350MLTAC4M500K | |
| 78530 | GEP400TRIAC4-5 | 71A60A2 | P400TRIAC4M502K | |
| 67341 | GEP40048TAA4-5 | 71A6042-500DT | P40048TAC4M500K | M400/480-PS-KIT |
| 67347 | GEP400MLTAA4-5 | 71A6092-001D | P400MLTAC4M500K | M400/MULTI-PS-KIT |
| 78531 | GEP750TRIAC5-5 | 71A64F0-T | P750TRIAC5M502K | M750/120/277/347/480-PS-KIT |
| 67343 | GEP75048TAA5-5 | 71A64F2-500DT | P75048TAC5M500K | |
| 67350 | GEP750MLTAA5-5 | 71A64E2-500D | P750MLTAC5M500K | |
| 78532 | GEP1000TRIAC5-5 | 71A65F1-T | | M1000/120/277/347/480-PS-KIT |
| 67348 | GEP1000MLTAA5-5 | 71A6593-500 | P1000MLTAC5M500K | |
| 67349 | GEP1000ML5AA5-5 | 71A6553-500 | P1000ML5AC5M500K | |

| Prod Code | Description | Advance P/N | Universal (Vossloh Schwabe) | OSI P/N |
|---|------------------|------------------|-----------------------------|------------------|
| HID Electromagnetic Ballasts - Continued | | | | |
| High Pressure Sodium | | | | |
| 87152 | GES50MLTLC3D-5 | 71A7801-001D | S50MLTLC3M500K | LU50/DUAL-KIT |
| 78533 | GES50TRILC3-5 | | | |
| 86587 | GES70MLTLC3D-5 | 71A7971-001D | S70MLTLC3M500K | LU70/MULTI-KIT |
| 78534 | GES70TRILC3-5 | 71A79A1-001D | S70TRILC3M502K | |
| 86456 | GES7048TLC3D-5 | 71A7941-001D | S7048TLC3M500K | |
| 87074 | GES100MLTLC3D-5 | 71A8001-001D | S100MLTLC3M500K | LU100/MULTI-KIT |
| 78535 | GES100TRILC3-5 | 71A80A1-001D | S100TRILC3M502K | |
| 87068 | GES10048TLC3D-5 | | S10048TLC3M500K | LU100/480-KIT |
| 87094 | GES150MLTLC3D-5 | 71A8172-001D | S150MLTLC3M500K | LU150/MULTI-KIT |
| 78536 | GES150TRILC3-5 | 71A81A2-001D | S150TRILC3M502K | |
| 67339 | GES15048TLC3D-5 | 71A8142-001D | S15048TLC3M500K | LU150/480-KIT |
| 87214 | GES250ML5AA4-5 | 71A8251-001D | S250ML5AC4M500K | |
| 78537 | GES250TRIAC4-5 | 71A82A1-001D | S250TRIAC4M502K | |
| 87121 | GES250MLTAA4-5 | 71A8271-001D | S250MLTAC4M500K | LU250/MULTI-KIT |
| 63066 | GES400ML5AC4-5 | 71A8453-001DF | S400ML5AC4M500K | |
| 87164 | GES400MLTAA4-5 | 71A8473-001D | S400MLTAC4M500K | LU400/MULTI-KIT |
| 78539 | GES400TRIAC4-5 | 71A84A3-001D | S400TRIAC4M502K | |
| 87198 | GES40048TAA4-5 | 71A8443-001D | S40048TAC4M500K | LU400/480-KIT |
| 78540 | GES1000TRIAC5-5 | 71A87A3-001 | S1000TRIAC5M502K | |
| 67351 | GES100048TAA5-5 | 71A8743-001 | S100048TAC5M500K | LU1000/480-KIT |
| 87218 | GES1000ML5AA5-5 | 71A8753-001 | S1000ML5AC5M500K | |
| 67352 | GES1000MLTAA5-5 | 71A8773-001 | S1000MLTAC5M500K | LU1000/MULTI-KIT |
| HID Lamp - Ballast Kits | | | | |
| 71701 | GEM175ML5AC3-55 | 77L5570-001D | | |
| 71702 | GEM250ML5AC3-55 | 77L5770-001D | | |
| 71703 | GEM400ML5AC4-55 | 77L6051-001D | | |
| 71704 | GEM1000ML5AC4-55 | 77L6552-001 | | |
| 71705 | GES100MLTLC3D-55 | 77L8071-001D-MED | | |
| 71706 | GES250ML5AC4-55 | 77L8251-001D | | |
| 71707 | GES400ML5AC4-55 | 77L8453-001D | | |
| F-Can & Post Mount Metal Halide | | | | |
| 63046 | GEMH50MVR-F | 72C5181-NP | 1120236CTC | |
| 86576 | 11210277CTC000C | 72C5280-NP | 11210277CTC | |
| 63047 | GEMH70MVR-F | 72C5282-NP | 11210277CTC | |
| 86578 | 11210506CTC000C | 72C5282-NP | 11210506CTC | |
| 63048 | GEMH100MVR-F | 72C5381-NP | 11210239CTC | |
| 63049 | GEMH150MVR-F | 72C5482-NP | 11210539CTC | |
| 63050 | GEMH175MVA-F | 72C5581-NP | 1110245SCTC | |
| 63051 | GEMH250MVA-F | 72C5782-NP | 1110246CTC | |
| 63052 | GEMH400MVA-F | 72C6082-NP | 1111-247SCTC | |
| 80728 | 1111-247SCTC000I | 72C6082-NP | 1111-247SCTC | |
| F-Can & Post Mount HPS | | | | |
| 86605 | 1233142U000I | 71A7907-001DB | 1233142U000I | |
| 86596 | 12210237CTC000I | 72C7984-NP | 12210237CTC000I | |
| 86606 | 1233154U000I | 71A8107-001DB | 1233154U000I | |
| HID Ignitors | | | | |
| 75440 | MH350-1A | LI553-H4-IC | | |
| 75441 | MH750-1B | LI573-H5-1B | | |
| 86606 | HPS150-3A | LI551-J4-IC | | |
| 86607 | HPS400-3A | LI501-H4-IC | | |
| HID CAPACITORS | | | | |
| 75434 | GECAP-15/440V-O | 7C150P40-R | | |
| 75435 | GECAP-24/400V-O | 7C240P40-R | | |
| 75668 | GECAP-24/480V-O | MD2409-00 | | |
| 75669 | GECAP-12/280V-O | | | |
| 75422 | GECAP-35/240V-O | 7C350P24RA | | |
| 75423 | GECAP-5/240V-O | 7C550P24RA | | |
| 75437 | GECAP-12/280V-O | | | |

Discontinued Catalog Products

| Prod Code | Description | Suggested Replacement | Prod Code |
|-----------|------------------|-----------------------|-----------|
| 23671 | GE-232-120-N | GE232MAX-G-N | 72275 |
| 23672 | GE-232-277-N | GE-232-MV-N | 72275 |
| 23674 | GE-332-277-N | GE-332-MV-N | 74456 |
| 23675 | GE-432-120-N | GE432MAX-G-N | 74463 |
| 23676 | GE-432-277-N | GE-432-MV-N | 74463 |
| 23678 | GE-259-277-N | GE259MV-N | 74469 |
| 23680 | GE-132-120-N | GE132MAX-G-N | 72269 |
| 23681 | GE-132-277-N | GE-132-MV-N | 72269 |
| 23939 | GE132MAX-N-DIY | NA | |
| 23940 | GE232MAX-N-DIY | NA | |
| 23942 | GE432MAX-N-DIY | NA | |
| 24162 | GE-132-277-N-84T | GE-132-MV-N-42T | 72240 |
| 24164 | GE-232-277-N-84T | GE-232-MV-N-42T | 72276 |
| 24166 | GE-332-277-N-84T | GE-332-MV-N-42T | 74457 |
| 24168 | GE-432-277-N-84T | GE-432-MV-N-42T | 74464 |
| 24170 | GE-259-277-N-84T | GE-259MV-N-42T | 74470 |
| 24774 | GE340RS-MV-N-DIY | NA | |
| 29621 | GE-232-120-PS-N | GE-232-MVPS-N | 96714 |
| 29622 | GE-232-277-PS-N | GE-232-MVPS-N | 96714 |
| 29623 | GE-332-120-PS-N | GE-232-MVPS-N | 96714 |
| 29624 | GE-332-277-PS-N | GE-332-MVPS-N | 96715 |
| 29625 | GE-432-120-PS-N | GE-432-MVPS-N | 96716 |
| 29627 | GE-432-277-PS-N | GE-432-MVPS-N | 96716 |
| 29630 | GE-232-120PS-N-T | GE-232-MVPS-N | 96714 |
| 29632 | GE-232-277PS-N-T | GE-232-MVPS-N | 96714 |
| 29633 | GE-332-120PS-N-T | GE-332-MVPS-N | 96715 |
| 29634 | GE-332-277PS-N-T | GE-332-MVPS-N | 96715 |
| 29635 | GE-432-120PS-N-T | GE-432-MVPS-N | 96716 |
| 29650 | GE-432-277PS-N-T | GE-432-MVPS-N | 96716 |
| 29656 | GE-332-MV-PS-H-T | GE332-MVPS-H-84TS | 72753 |
| 29665 | GE-232-MVPS-XL-T | GE-232-MVPS-XL | 29671 |
| 29666 | GE-332-MVPS-XL-T | GE-332-MVPS-XL | 29672 |
| 73192 | GE454MVPS90-G | GE454MVPS90-E-S | 94131 |
| 29717 | GE454MVPSN1-B | GE454MVPS90-G | 73192 |
| 30187 | GE-286-HO-MV-N-P | GE-286-HO-MV-N-P | 30176 |
| 30189 | GE-132-MV-N | GE-132-MV-N | 72269 |
| 30191 | GE-232-MV-N | GE-232-MV-N | 72275 |
| 30219 | GE432MV-H | GE432MV-H | 78629 |
| 30247 | GE-232-MV-L | GE-232-MV-L | 72272 |
| 30268 | GE-132-MV-N-42T | GE-132-MV-N-42T | 72240 |
| 30269 | GE-232-MV-N-42T | GE-232-MV-N-42T | 72276 |
| 30303 | GE-432-MV-H-42T | GE-432-MV-N-42T | 74464 |
| 30308 | GE-232-MV-L-42T | GE-232-MV-L-42T | 72274 |
| 31052 | GE232MAX-N-42T | GE232MAX-N-42T | 72267 |
| 31053 | GE332MAX-N-42T | GE332MAX-N-42T | 71721 |
| 31054 | GE432MAX-N-42T | GE432MAX-N-42T | 71729 |
| 31055 | GE332MAX-L-42T | GE332MAX-L-42T | 71718 |
| 42670 | 1110-247SC-TC | NA | |
| 42692 | P350277RC500K | GEP350MLTAC4-5 | 86984 |
| 47532 | B132PUNVHP-A | GE-132-MV-N | 72269 |
| 99655 | GE228MVPS-A | GE228MVPS-MC | 68993 |
| 47536 | B228PUNV-COG1C | GE228MVPS-A | 99655 |
| 47546 | GE232MAX-L-42T | GE232MAX-L-42T | 72274 |
| 47547 | GE432MAX-L-42T | GE432MAX-L-42T | 71726 |
| 47549 | GE332MAX-H-42T | GE332MAX-H-42T | 71715 |
| 47550 | GE432MAX-H-42T | GE432MAX-H-42T | 71724 |
| 49706 | GE132MAX-L/ULTRA | GE132MAX-L/ULTRA | 72258 |
| 49707 | GE232MAX-L/ULTRA | GE232MAX-L/ULTRA | 72262 |
| 49708 | GE332MAX-L/ULTRA | GE332MAX-L/ULTRA | 71717 |
| 49709 | GE432MAX-L/ULTRA | GE432MAX-L/ULTRA | 71725 |
| 49771 | GE132MAX-N/ULTRA | GE132MAX-N/ULTRA | 72259 |
| 49772 | GE232MAX-N/ULTRA | GE232MAX-N/ULTRA | 72262 |
| 49773 | GE332MAX-N/ULTRA | GE332MAX-N/ULTRA | 71719 |

| Prod Code | Description | Suggested Replacement | Prod Code |
|-----------|-------------------|-----------------------|-----------|
| 49774 | GE432MAX-N/ULTRA | GE432MAX-N/ULTRA | 71727 |
| 49775 | GE232MAX-H/ULTRA | GE232MAX-H/ULTRA | 73190 |
| 49776 | GE332MAX-H/ULTRA | GE332MAX-H/ULTRA | 71714 |
| 49777 | GE432MAX-H/ULTRA | GE432MAX-H/ULTRA | 71723 |
| 71281 | GE232MAX-N/AMP | GE232MAX-N/AMP | 72264 |
| 71424 | GE332-MVPS-HSL84 | GE332-MVPS-H-84TS | 72753 |
| 71425 | GE432-MVPS-HSL42 | GE432MVPS-H-42T | 74477 |
| 71426 | GE432MAX-HSL84T | GE432MAX-H-42T | 71724 |
| 71502 | GE632MAXH90-S60T | GE632MAX90-S60 | 71497 |
| 71714 | GE332MAX-H/ULTRA | GE332MAX-H/ULTRA | 78619 |
| 71715 | GE332MAX-H-48T | GE332MAX-H-48T | 78620 |
| 71717 | GE332MAX-L/ULTRA | GE332MAX-L/ULTRA | 78621 |
| 71718 | GE332MAX-L-48T | GE332MAX-L-48T | 78622 |
| 71719 | GE332MAX-N/ULTRA | GE332MAX-N/ULTRA | 78623 |
| 71721 | GE332MAX-N-48T | GE332MAX-N-48T | 78624 |
| 71725 | GE432MAX-L/ULTRA | GE432MAX-L/ULTRA | 78625 |
| 71726 | GE432MAX-L-48T | GE432MAX-L-48T | 78626 |
| 71727 | GE432MAX-N/ULTRA | GE432MAX-N/ULTRA | 78627 |
| 71729 | GE432MAX-N-42T | GE432MAX-N | 78628 |
| 71732 | GE632MAXH90-V60T | GE632MAX90-V60 | 71731 |
| 72260 | GE132MAX-N-DIY | NA | |
| 80136 | B332I347HP | GE332-N-347 | 74105 |
| 80148 | B259I120RHH | NA | |
| 80149 | B259I277RHH | NA | |
| 80162 | B295SR120HP | GE296HO-MV-N | 75671 |
| 80163 | B295SR277HP | GE296HO-MV-N | 75671 |
| 80277 | B332I347HPL 347 | NA | |
| 80353 | B132R120V5 | GE132MVPS-N-V03 | 75379 |
| 80355 | B232SR120V5 | GE232MVPS-N-V03 | 75380 |
| 80356 | B232SR277V5 | GE232MVPS-N-V03 | 75380 |
| 80357 | B332SR120V5 | GE332MVPS-N-V03 | 75381 |
| 80358 | B332SR277V5 | GE332MVPS-N-V03 | 75381 |
| 80362 | B232SR277S50 | GE232MAX90-S60 | 73233 |
| 80630 | 480XLHTCP-CON 120 | GE296HO-MV-N | 75671 |
| 80631 | 487XLHTCP-CON | GE296HO-MV-N | 75671 |
| 80633 | 487SLHTCP-CON | GE296HO-MV-N | 75671 |
| 80635 | 822BRTCP-CON | GE-260-IS-MV-N | 74474 |
| 80637 | 420LTCP-CON | GE-240RS-MV-N | 74472 |
| 80640 | 447LRVLHTCP-CON | GE-240RS-MV-N | 74472 |
| 80644 | GEM230RS120DIY | GE-240RS-MV-N DIY | 74473 |
| 80664 | 493B2 | NA | |
| 80669 | C213UNVBE-IP | GEC213-MVPS-SE | 71429 |
| 80671 | C213UNVBES-IP | GEC213-MVPS-BES | 71428 |
| 80672 | C213UNVSE-IP | GEC213-MVPS-SE | 71429 |
| 80673 | C218UNVBEIP | GEC218-MVPS-SE | 71433 |
| 80677 | C218UNVBES-IP | GEC218-MVPS-BES | 71432 |
| 80679 | C218UNVSE-IP | GEC218-MVPS-SE | 71433 |
| 80680 | C240SI120RH-IP | GEC240MAX-A | 71435 |
| 80681 | C240SI277RH-IP | GEC240MAX-A | 71435 |
| 80683 | C240PUNVHP-B-IP | GEC240MVPS-A | 75950 |
| 80685 | C2642UNVBE-IP | GEC226-MVPS-SE | 71444 |
| 80687 | C2642UNVBES-IP | GEC226-MVPS-BES | 71443 |
| 80689 | C2642UNVSE-IP | GEC226-MVPS-SE | 71444 |
| 80690 | C340SI120RH-IP | GEC340MAX-A | 71436 |
| 80691 | C340SI277RH-IP | GEC340MAX-A | 71436 |
| 80824 | 480XLHTCP-DIY | GE296HO-MV-N | 75671 |
| 86071 | 200CSP-IP | GE-240RS-MV-N | 74472 |
| 86073 | 200H2-IP | GE-240RS-MV-N | 74472 |
| 86078 | 202BTCP-IP | GE-240RS-MV-N | 74472 |
| 86080 | 202SBTCP-IP | GE-240RS-MV-N | 74472 |
| 86085 | 213TCP-IP | GE-260-IS-MV-N | 74474 |
| 86101 | 412LSLHTCP-IP | GE-240RS-MV-N | 74472 |
| 86105 | 413CTCP-IP | GE-240RS-MV-N | 74472 |

| Prod Code | Description | Suggested Replacement | Prod Code | Prod Code | Description | Suggested Replacement | Prod Code |
|-----------|------------------|-----------------------|-----------|-----------|------------------|-----------------------|-----------|
| 86110 | 420LTCP-IP | GE-240RS-MV-N | 74472 | 89723 | 213TCP-DIY | GE-260-IS-MV-N-DIY | 74475 |
| 86123 | 443LSLHTCP | GE-240RS-MV-N | 74472 | 89724 | 458LSLHTCP-DIY | GE240RS-MV-N-DIY | 74473 |
| 86124 | GEM240RS277IP | GE-240RS-MV-N | 74472 | 89725 | 532BRTCP-DIY | GE-260-IS-MV-N-DIY | 74475 |
| 86132 | 445RSWSTCP-IP | GE240RS120 | 97498 | 89726 | 487SLHTCP-DIY | GE296HO-MV-N-DIY | 72109 |
| 86137 | 446LSLHTCP | GE-240RS-MV-N | 74472 | 90019 | GE259MAX-N/CTR | NA | |
| 86139 | GEM240RS120IP | GE-240RS-MV-N | 74472 | 96717 | GE232-MVPS-N-42T | GE-232-MVPS-N | 96714 |
| 86144 | 447LRTCP-IP | GE-240RS-MV-N | 74472 | 96718 | GE332-MVPS-N-42T | GE-332-MVPS-N | 96715 |
| 86158 | 458LSLHTCP-IP | GE-240RS-MV-N | 74472 | 96719 | GE432-MVPS-N-42T | GE-432-MVPS-N | 96716 |
| 86164 | GEM296HORS120IP | GE296HO-MV-N | 75671 | 97656 | GE232MAX-N/CTR | GE232MAX-N/CTR | 72265 |
| 86167 | 480XLHTCP-IP | GE296HO-MV-N | 75671 | 97657 | GE332MAX-N/CTR | GE332MAX-N/CTR | 71720 |
| 86171 | GEM296HORS277IP | GE296HO-MV-N | 75671 | 97658 | GE432MAX-N/CTR | GE432MAX-N/CTR | 71728 |
| 86173 | 487XLHTCP-IP | GE296HO-MV-N | 75671 | 97709 | GE-232MV-N-DIY | GE-232MV-N-DIY | 72277 |
| 86176 | 490XLHTCP-IP | GE296HO-MV-N | 75671 | 97713 | GE332MAX-HSL84T | GE332MAX-HSL84T | 72752 |
| 86185 | 502ATCP-IP | GE232MVPS-N-VO3 | 75380 | | | | |
| 86206 | 532BRTCP-IP | GE-260-IS-MV-N | 74474 | | | | |
| 86208 | 537LTCP-IP | GE-240RS-MV-N | 74472 | | | | |
| 86222 | 546BTCP-IP | GE140RS120 | 75672 | | | | |
| 86231 | 548H2-IP | NA | | | | | |
| 86240 | 554LTCP-IP | NA | | | | | |
| 86243 | 562LTCP-IP | NA | | | | | |
| 86245 | 564LTCP-IP | GE-240RS-MV-N | 74472 | | | | |
| 86251 | 573LTCP-IP | GE-240RS-MV-N | 74472 | | | | |
| 86253 | 588LTCP-IP | GE-240RS-MV-N | 74472 | | | | |
| 86264 | 627LHTCP-IP | GE296HO-MV-N | 75671 | | | | |
| 86287 | 697LTCP-IP | GE-240RS-MV-N | 74472 | | | | |
| 86341 | GEM240RS220IP | NA | | | | | |
| 86351 | 798XLHTCP-IP | GE296HO-MV-N | 75671 | | | | |
| 86359 | 806SLHTCP | GE-260-IS-MV-N | 74474 | | | | |
| 86360 | GEM296IS120IP | GE-260-IS-MV-N | 74474 | | | | |
| 86372 | GEM196IS120IP | GE-260-IS-MV-N | 74474 | | | | |
| 86378 | 827SLHTCP | GE-260-IS-MV-N | 74474 | | | | |
| 86379 | GEM296IS277IP | GE-260-IS-MV-N | 74474 | | | | |
| 86381 | GEM196IS277IP | GE-260-IS-MV-N | 74474 | | | | |
| 86396 | 881BRTCP-IP | GE-260-IS-MV-N | 74474 | | | | |
| 86402 | 930KTCP-IP | NA | | | | | |
| 86411 | 937KTCP-IP | NA | | | | | |
| 86430 | 957STCP-IP | NA | | | | | |
| 86432 | 960VLHTCP-IP | NA | | | | | |
| 86519 | H100MLTAC3M500K | GEM100MLTLC3D-5 | 86675 | | | | |
| 86527 | H175MLTAC3M500K | GEM175MLTAC3-5 | 86741 | | | | |
| 86542 | H400MLTAC4M500K | GEM400MLTAA4-5 | 72149 | | | | |
| 86624 | 2BMB1000C | NA | | | | | |
| 86808 | M400ML5AC4M500K | GEM400ML5AA4-5 | 72300 | | | | |
| 86814 | M400MLTAC4M500K | GEM400MLTAA4-5 | 72149 | | | | |
| 86968 | P320TRIAC4M502K | GEP320MLTAC4-5 | 86959 | | | | |
| 87175 | S400MLTAC5M500K | GES400ML5AC4-5 | 87215 | | | | |
| 87206 | S40048TAC5M500K | GES40048TAC4-5 | 87198 | | | | |
| 87217 | S400ML5AC5M500K | GES400ML5AC4-5 | 87215 | | | | |
| 87621 | GE-454-MV-PS-NL | GE454MVPS90-G | 73192 | | | | |
| 87634 | GEM1CF579PH277 | NA | | | | | |
| 72279 | GE254MVPS-D | GE254MVPS-D-1 | 33957 | | | | |
| 87666 | GE-254-MV-PS-NLB | GE254MVPS-D | 72279 | | | | |
| 87700 | GEM2CF24PH277 | NA | | | | | |
| 88918 | USB-0218-16-IP | NA | | | | | |
| 88931 | USB-0816-14-IP | GESB-620-24-IP | 72104 | | | | |
| 88934 | USB-1632-24-IP | GESB-2040-46-IP | 72107 | | | | |
| 88936 | USB-1024-14-IP | GESB-1224-24-IP | 72105 | | | | |
| 89707 | GEM240RS120DIY72 | GE240RS120-DIY | 97499 | | | | |
| 89708 | GEM296IS120DIY48 | GE-260-IS-MV-N-DIY | 74475 | | | | |
| 89709 | GEM140RS120DIY | GE140RS120-DIY | 72110 | | | | |
| 89710 | GEM240HRS120DIY | GE240RS120-DIY | 97499 | | | | |
| 89714 | GEM140HRS120DIY | GE140RS120-DIY | 72110 | | | | |
| 89716 | 445RSWSTCP-DIY | GE240RS120-DIY | 72110 | | | | |

Product Warranty

GE Lighting

Light your world with a brand you can trust—GE.

GE has been a leader in innovative lighting technologies for over 100 years. Our name on the label is virtually synonymous with dependable, efficient, high-quality products—and that is why we are totally confident in the system performance and reliability of our lamps and ballasts. Also it is why we are willing to back them with a limited warranty that provides excellent coverage against defects in materials and workmanship.

If your GE lamp or ballast, when installed and used properly, fails during its warranty period because of defects in materials or workmanship, our warranties provide for purchase price credits or replacement. Of course, every lamp, ballast and system is different and warranty details vary, so check the individual warranty for your product at www.gelighting.com/warranty.

System Limited Warranty

(See the GE Lighting System and Ballast Limited Warranty at www.gelighting.com/warranty for full details and specific lamp cycle requirements.)

GE Lamps Operating on GE Ballasts

| | Lamp Warranty ² | | Electronic Ballast Warranty ^{3,5} | Electromagnetic Ballast Warranty ⁵ |
|---|---|--|--|---|
| Compact Fluorescent Lamp ¹ | When Operated on GE Programmed Rapid-Start Ballasts | When Operated on GE Instant-Start Ballasts | | |
| Double Biac®: 13-, 18-, 26-watt: "DBX" (4-pin base types only) | 2 years | - | 5 years | - |
| Triple Biac®: 13-, 18-, 26-, 32-, 42-watt "TBX" | 2 years | - | 5 years | - |
| High-Output Biac®: 57-watt and 70-watt "QBX" | 2 years | - | 5 years | - |
| High Lumen Biac® 27 W and 39 W | 1 year | - | 5 years | - |
| High Lumen Biac® 55 W ⁶ | 2 years | - | 5 years | - |
| High Lumen Biac® Watt-Miser® 25 W (F40/25BX) | 3 years | 2.5 years | 5 years | - |
| High Lumen Biac® 40 W (F40/30BX) | 2 years | 1 year | 5 years | - |
| Linear Fluorescent Lamp ^{1,4} | When Operated on GE Programmed Rapid-Start Ballasts | When Operated on GE Instant-Start Ballasts | Electronic Ballast Warranty ^{3,5} | Electromagnetic Ballast Warranty ⁵ |
| F17T8/XL, F25T8/XL, F32T8 (SP, SPP & SPX) | 3 years | 2.5 years | 5 years | 2 years |
| F17T8/XL/WM, F25T8/XL/WM | 3 years | 3 years | 5 years | 2 years |
| F28T8/XL/SPP, F32T8/25W/SPP, F32T8/XL (SP & SPX) | 4 years | 3 years | 5 years | 2 years |
| F32T8/XL/HL | 4 years | 4 years | 5 years | 2 years |
| F28T8/XL/SPX, F32T8/SXL, F32T8/25W/SPX | 5 years | 4 years | 5 years | 2 years |
| F28T8/SXL, F32T8/25W/SXL | 7 years | 5 years | 5 years | 2 years |
| F96T8, F96T8/HO | - | 2 years | 5 years | - |
| F96T8/XL (SP, SPP & SPX); F96T8/XL/WM; F96T8/XL/WMP; F96T8/54W/SPP; F96T8/49W (SPP & SPX) | - | 3 years | 5 years | - |
| F28W/TS/HL | 3 years | - | 5 years | - |
| F14T5/WM, F21T5/WM, F28T5/WM, F35T5/WM | 3.5 years | - | 5 years | - |
| F14T5HE, F21T5HE, F28T5HE, F35T5HE, F54T5/47W, F24T5HO, F39T5HO, F54T5HO, F80T5HO, F54T5/WM | 4 years | - | 5 years | - |
| F54T5/XL | 5 years | - | 5 years | - |
| HID High Watt Lamps ⁴ | When Operated on GE Ballasts | | Electronic Ballast Warranty ^{3,5} | Electromagnetic Ballast Warranty ⁵ |
| CMH® ConstantColor® SPXX: 250-, 320-, 350-, 400-watt | 1 year | - | 5 years | 2 years |
| PulseArc®: 250-, 320-, 350-, 400-watt | 1 year | - | 5 years | 2 years |
| HID Low Watt Lamps ⁴ | Wattage/Type | When Operated on GE Ballasts | Electronic Ballast Warranty ^{3,5} | Electromagnetic Ballast Warranty |
| CMH® PAR | PAR20, PAR30L, PAR38, PAR64 | 6 months | - | - |
| CMH® MR16 | All | 6 months | - | - |
| CMH® GU6.5 | All | 6 months | - | - |
| CMH® G8.5 | 20 W | 6 months | - | - |
| | 39 W, 70 W | 1 year | - | - |
| CMH® G12 | 20 W, 150 W | 6 months | - | - |
| | 39 W, 70 W | 1 year | - | - |
| CMH® Double-ended | All | 1 year | - | - |
| CMH® Elliptical | 70 W | 1 year | - | - |
| | 150 W | 9 months | - | - |
| | 100 W | 6 months | - | - |

Visit www.gelighting.com/warranty for all warranty provisions and details

¹ Includes GE covrGuard® lamps

² After date of purchase

³ Contingent upon maximum rated case temperature; 36 or 60 months as specified on www.gelighting.com

⁴ Linear fluorescent and compact fluorescent operating at 4,000 hours per year, high intensity discharge at 5,000 hours per year.

⁵ From date of manufacture

⁶ Applies to F55BX lamps rated at 20,000 hours life

Ballast Remedy: GE will, at its option, either (1) provide a credit to Purchaser equal to the current price GE charges Purchaser for the ballast, or (2) provide a free replacement ballast to Purchaser. GE reserves and has the right to examine failed lamps and/or ballasts to determine the cause of failure and patterns of usage.

Index

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| 000-8724 | 47621 | 18-59 |
| 005-1184-MF | 75433 | 18-59 |
| 005-2779-MF | 75668 | 18-59 |
| 100/300 6PK | 41459 | 1-13 |
| 1000 | 22260 | 1-15 |
| 1003 | 12367 | 8-25 |
| 1003 | 26709 | 8-25 |
| 1003 LL | 47800 | 8-25 |
| 1003 NH | 71899 | 8-25 |
| 1003/BP2 | 12367 | 8-16 |
| 1004 | 12373 | 8-25 |
| 1004 | 26726 | 8-25 |
| 100A 48PK | 41034 | 1-16 |
| 100A 60PK | 17522 | 1-12 |
| 100A-2/24PK | 97780 | 1-16 |
| 100A/CL-2PK | 97489 | 1-16 |
| 100A/RS 12PK-5 | 18275 | 1-12 |
| 100A/RS 60PK | 17527 | 1-12 |
| 100A/RS/STG-TP6 | 72546 | 1-12 |
| 100A/RS/STGPQ1/6 | 47261 | 1-12 |
| 100A/RS130-PK12 | 72527 | 1-12 |
| 100A/RVL 48PK | 48690 | 1-16 |
| 100A/SPK-2PK | 97484 | 1-12 |
| 100A/W 48PK | 41036 | 1-16 |
| 100A/W/LL-2PK | 97761 | 1-16 |
| 100F20/TF PQ1/6 | 44540 | 1-19 |
| 100G40/W 6PK | 49781 | 1-19 |
| 100G40/W CPK | 16742 | 1-19 |
| 100PAR/B/85WM6PK | 13465 | 1-12 |
| 100PAR/FL85WM/EX | 14509 | 1-16 |
| 100PAR/G/85WM6PK | 13474 | 1-12 |
| 100PAR/R/85WM6PK | 13472 | 1-12 |
| 100PAR/Y/85WM6PK | 13473 | 1-12 |
| 1034 | 26775 | 8-25 |
| 105 | 36147 | 8-22 |
| 1073 | 26838 | 8-16 |
| 1073 | 26838 | 8-25 |
| 1073 | 40134 | 8-25 |
| 1073NH | 71905 | 8-25 |
| 1076 | 00765 | 8-25 |
| 1076 | 26854 | 8-25 |
| 10S11/79 | 12249 | 1-7 |
| 10S11N/F | 12188 | 1-7 |
| 10S6/10 | 12041 | 1-7 |
| 10S6/10 24PK | 12050 | 1-7 |
| 10S6/10DC 24PK | 12060 | 1-7 |
| 110R30/FL/RS/1 | 46859 | 1-13 |
| 1110-247SC-TC | 42670 | 18-61 |
| 1110245SCTC000I | 86563 | 18-60 |
| 1110246CTC000C | 86564 | 18-60 |
| 1111-247SCTC000I | 80728 | 18-57 |
| 11210239CTC000I | 86574 | 18-60 |
| 11210277CTC000C | 86576 | 18-53 |
| 11210506CTC000C | 86578 | 18-60 |
| 1133 | 26885 | 8-25 |
| 1141 | 12346 | 8-25 |
| 1141 | 26903 | 8-25 |
| 1141 | 26905 | 8-25 |
| 1141 LL | 47802 | 8-25 |
| 1141 NH | 71897 | 8-25 |
| 1141/BP2 | 12346 | 8-16 |
| 1142 | 00759 | 8-25 |
| 1142 | 26917 | 8-25 |
| 1142 | 26919 | 8-25 |
| 1154 | 12297 | 8-25 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| 1154 NH | 71889 | 8-25 |
| 1154/BP2 | 12297 | 8-16 |
| 1155 | 26955 | 8-25 |
| 1156 | 12344 | 8-25 |
| 1156 | 26960 | 8-25 |
| 1156 | 26962 | 8-25 |
| 1156 LL | 11666 | 8-25 |
| 1156 LL | 23334 | 8-25 |
| 1156 NH | 89241 | 8-25 |
| 1156/BP2 | 12344 | 8-16 |
| 1156NA | 20248 | 8-25 |
| 1156NA | 21028 | 8-25 |
| 1157 | 12294 | 8-25 |
| 1157 | 26969 | 8-25 |
| 1157 | 26971 | 8-25 |
| 1157 LL | 23337 | 8-25 |
| 1157 NH | 89236 | 8-25 |
| 1157/BP2 | 12294 | 8-16 |
| 1157NA | 12310 | 8-25 |
| 1157NA | 26975 | 8-25 |
| 1157NA | 26976 | 8-25 |
| 1157NA LL | 47798 | 8-25 |
| 1157NA NH | 71891 | 8-25 |
| 1157NA/BP2 | 12310 | 8-16 |
| 1176 | 27004 | 8-25 |
| 1195 | 27021 | 8-25 |
| 1195 | 27023 | 8-25 |
| 1196 | 27026 | 8-25 |
| 120R40/PL-1 6PK | 21000 | 1-13 |
| 120R40FL/STG PQ6 | 47725 | 1-13 |
| 12210237CTC000I | 86596 | 18-57 |
| 1229 | 39904 | 8-25 |
| 1233142U000I | 86605 | 18-58 |
| 1233154U000I | 86606 | 18-58 |
| 1233154U000I | 86606 | 18-64 |
| 1251 | 81679 | 8-25 |
| 125R40/1 6PK | 48069 | 1-13 |
| 1295NA | 22523 | 8-25 |
| 1308 | 12824 | 8-25 |
| 1309 | 81656 | 8-25 |
| 1315 | 81667 | 8-25 |
| 1317 | 34265 | 8-25 |
| 1383 | 27150 | 8-25 |
| 1385 | 27154 | 8-25 |
| 1408 | 27179 | 8-25 |
| 1445 | 12329 | 8-25 |
| 1445 | 27207 | 8-25 |
| 1450 | 27263 | 8-25 |
| 1460X | 81669 | 8-25 |
| 1495 | 81657 | 8-25 |
| 1495X | 81678 | 8-25 |
| 15/150-SECURITY | 23068 | 1-8 |
| 150A/CL 12PK | 16068 | 1-13 |
| 150A/RVL | 16703 | 1-13 |
| 150A/W 12PK | 10429 | 1-13 |
| 150A/W/RL/HAL-TP6 | 71364 | 2-7 |
| 150A21/RS-PK6 | 72532 | 1-13 |
| 150G40/W | 16585 | 1-19 |
| 150PAR/3FL/120WM | 80313 | 1-13 |
| 150PAR/3FL/MINE | 80315 | 1-13 |
| 150PAR/3FL/MINE | 80317 | 1-13 |
| 150PAR/3SP/120WM | 80322 | 1-13 |
| 150PAR/3SP/MINE | 80321 | 1-13 |
| 150PAR/FL/120WM/ | 14501 | 1-16 |
| 150PAR/FL/B | 19465 | 1-13 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| 150PAR/FL/CSVG | 26370 | 1-13 |
| 150PAR/FL/EX-120 | 14531 | 1-16 |
| 150PAR/FL/G | 19467 | 1-13 |
| 150PAR/FL/R | 19468 | 1-13 |
| 150PAR/FL/STGPQ6 | 48037 | 1-13 |
| 150PAR/SP/120WM/ | 14502 | 1-16 |
| 150PAR/SP/CSVG | 26371 | 1-13 |
| 150PAR/SP/EX-120 | 14535 | 1-16 |
| 150PAR46 | 19517 | 1-13 |
| 150PAR46/1 | 19512 | 1-13 |
| 150PAR46/3MFL | 41968 | 1-13 |
| 150PAR46/TS | 35327 | 1-13 |
| 150PS25/RS/STG | 72547 | 1-13 |
| 158 | 25931 | 8-22 |
| 1591 | 81672 | 8-25 |
| 15A/W-2PK | 97491 | 1-8 |
| 15A15 | 12658 | 1-8 |
| 15A15/CL-2PK | 97488 | 1-8 |
| 15BC/8/CF2/PKS-MP | 75257 | 1-17 |
| 15BC/RVL/CF-T4/6 | 74033 | 1-17 |
| 15BC10/CF/CD2-MPD | 74974 | 1-17 |
| 15CAC CD2 6PK | 48396 | 1-17 |
| 15FC CD2 6PK | 48395 | 1-17 |
| 15FC/AU CD2 6PK | 48394 | 1-17 |
| 15FC/AU/CF2/5-MP | 75256 | 1-17 |
| 15R14SC/SP | 33404 | 1-8 |
| 15S11/102 | 13291 | 1-8 |
| 15S11/13 | 13210 | 1-8 |
| 15S11/3DC | 13188 | 1-8 |
| 15T10 24PK | 34407 | 1-8 |
| 15T6 | 13390 | 1-8 |
| 15T6 | 13402 | 1-8 |
| 15T6-CD | 22114 | 1-8 |
| 15T7C | 13494 | 1-8 |
| 15T7DC CARD | 35154 | 1-8 |
| 15T7N CARD | 35153 | 1-8 |
| 161 | 16489 | 8-22 |
| 161 | 23016 | 8-22 |
| 161 | 25956 | 8-22 |
| 161 NH | 71902 | 8-22 |
| 161/BP2 | 23016 | 8-16 |
| 1612 | 27461 | 8-25 |
| 1619 | 27472 | 8-25 |
| 1630 | 27488 | 8-25 |
| 1630 | 27489 | 8-25 |
| 1638 | 27504 | 8-25 |
| 1662 | 27529 | 8-25 |
| 1665 | 27532 | 8-25 |
| 1665AF | 81658 | 8-25 |
| 168 | 12327 | 8-22 |
| 168 | 25962 | 8-22 |
| 168 | 28757 | 8-22 |
| 168 LL | 47827 | 8-22 |
| 168 NH | 89239 | 8-22 |
| 168/BP2 | 12327 | 8-16 |
| 1680X | 81668 | 8-25 |
| 1683 | 27557 | 8-25 |
| 1691 | 27566 | 8-26 |
| 1691AF | 27568 | 8-26 |
| 1692 | 27571 | 8-26 |
| 175PAR38/HEAT | 13643 | 1-13 |
| 1777 | 27630 | 8-26 |
| 1813 | 27667 | 8-26 |
| 1815 | 00758 | 8-26 |
| 1815 | 27677 | 8-26 |

Index (cont.)

| Description | Order Code | Page Number |
|-------------|------------|-------------|
| 1815 | 27679 | 8-26 |
| 1816 | 12359 | 8-26 |
| 1816 | 27688 | 8-26 |
| 1818 | 81659 | 8-26 |
| 1819 | 81660 | 8-26 |
| 1819 | 81661 | 8-26 |
| 1820 | 81663 | 8-26 |
| 1822 | 27749 | 8-26 |
| 1828 | 27772 | 8-25 |
| 1829 | 81664 | 8-26 |
| 1835 | 27804 | 8-26 |
| 1864 | 81665 | 8-26 |
| 1864 | 81666 | 8-26 |
| 1866 | 27868 | 8-26 |
| 1873 | 40383 | 8-26 |
| 1891 | 12331 | 8-26 |
| 1891 | 27917 | 8-26 |
| 1892 | 00767 | 8-26 |
| 1892 | 27927 | 8-26 |
| 1893 | 12332 | 8-26 |
| 1893 | 27935 | 8-26 |
| 1893 | 27937 | 8-26 |
| 1895 | 12330 | 8-26 |
| 1895 | 27945 | 8-26 |
| 1895 | 27948 | 8-26 |
| 1895 NH | 71896 | 8-26 |
| 1895/BP2 | 12330 | 8-16 |
| 18S11/ISC | 13655 | 1-8 |
| 193 | 19553 | 8-22 |
| 193 | 19852 | 8-22 |
| 1939X | 34021 | 8-26 |
| 193E1 | 11807 | 8-22 |
| 194 | 12328 | 8-22 |
| 194 | 25965 | 8-22 |
| 194 | 28758 | 8-22 |
| 194 NH | 89240 | 8-22 |
| 194/BP2 | 12328 | 8-16 |
| 1940 | 28008 | 8-26 |
| 1946 | 18617 | 8-26 |
| 194G | 12357 | 8-22 |
| 194LL | 25832 | 8-23 |
| 194NA | 12319 | 8-23 |
| 194NA | 27470 | 8-23 |
| 194NA | 44859 | 8-23 |
| 194NA LL | 47794 | 8-23 |
| 194NA LL NH | 71894 | 8-23 |
| 194NA/BP2 | 12319 | 8-16 |
| 194R | 12355 | 8-23 |
| 1958 | 28011 | 8-26 |
| 1962B | 39641 | 8-26 |
| 1962BG | 12859 | 8-26 |
| 1962DX | 37947 | 8-26 |
| 1962DZ | 44152 | 8-26 |
| 1962TY | 13667 | 8-26 |
| 1968 | 28034 | 8-26 |
| 1970X | 41938 | 8-26 |
| 1974 | 32780 | 8-26 |
| 1978X | 38545 | 8-26 |
| 198 | 00760 | 8-23 |
| 198 | 37983 | 8-23 |
| 198 | 37984 | 8-23 |
| 1982 | 38627 | 8-26 |
| 1982SP | 21061 | 8-26 |
| 1983 | 39718 | 8-26 |
| 1986 | 44717 | 8-26 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| 1987 | 47695 | 8-26 |
| 1988 | 38535 | 8-26 |
| 199 | 37985 | 8-23 |
| 199 | 37986 | 8-23 |
| 200A/CL-1 12PK | 16069 | 1-14 |
| 200A/RVL-TP1/6 | 89371 | 1-14 |
| 200A/W-1 12PK | 11585 | 1-14 |
| 200A/W-PK6 | 44534 | 1-14 |
| 200A21/99/IF | 25936 | 1-14 |
| 200PAR | 20122 | 1-14 |
| 200PAR46/3MFL | 20138 | 1-14 |
| 200PAR46/3MFL | 20140 | 1-14 |
| 200PAR46/3NSP | 20115 | 1-14 |
| 200PAR46/3NSP | 20117 | 1-14 |
| 200PAR56/MFL | 49889 | 1-14 |
| 200PS30RS/23/STG | 72548 | 1-14 |
| 2040 | 12326 | 8-26 |
| 2040 | 19280 | 8-26 |
| 2057 | 12296 | 8-26 |
| 2057 | 18620 | 8-26 |
| 2057 | 44760 | 8-26 |
| 2057 LL | 23339 | 8-26 |
| 2057 NH | 89237 | 8-26 |
| 2057/BP2 | 12296 | 8-16 |
| 2057NA | 12312 | 8-26 |
| 2057NA | 44763 | 8-26 |
| 2057NA LL | 47799 | 8-26 |
| 2057NA NH | 71892 | 8-26 |
| 2057NA/BP2 | 12312 | 8-16 |
| 2058U | 12899 | 8-26 |
| 2059 | 26697 | 8-26 |
| 2059X | 26698 | 8-26 |
| 2074 | 21494 | 8-26 |
| 20T61/2/F | 34272 | 1-8 |
| 20T61/2DC/F | 34241 | 1-8 |
| 210 | 25988 | 8-23 |
| 211-2 | 11803 | 8-23 |
| 211-2 | 12673 | 8-23 |
| 211-2 | 39224 | 8-23 |
| 211-2 NH | 71900 | 8-23 |
| 211-2/BP2 | 12673 | 8-16 |
| 212-2 | 23220 | 8-23 |
| 214-2 | 39356 | 8-23 |
| 21A/R40/FL | 23423 | 1-14 |
| 2232 | 34763 | 8-26 |
| 2232LL | 26702 | 8-26 |
| 2232SB | 81677 | 8-26 |
| 2233 | 36906 | 8-26 |
| 2357 | 12298 | 8-26 |
| 2357 | 16291 | 8-26 |
| 2357 NH | 71890 | 8-26 |
| 2357/BP2 | 12298 | 8-16 |
| 2357NA | 12299 | 8-26 |
| 2357NA | 15698 | 8-27 |
| 2396 | 18047 | 8-27 |
| 2397 | 27560 | 8-27 |
| 24 | 12325 | 8-22 |
| 24 | 17853 | 8-22 |
| 240PAR56/MFL | 20576 | 1-14 |
| 240PAR56/VNSP | 20575 | 1-14 |
| 240PAR56/WFL | 20577 | 1-14 |
| 24NA | 12316 | 8-22 |
| 250R40/1 6PK | 37770 | 1-14 |
| 250R40/1/STG PQ6 | 47724 | 1-14 |
| 250R40/10 6PK | 37771 | 1-14 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| 250R40/4 | 20724 | 1-14 |
| 2556 | 19792 | 8-27 |
| 2586 | 19566 | 8-27 |
| 25A/2PK-130V | 97864 | 1-8 |
| 25A/CL-2PK | 97478 | 1-8 |
| 25A/CL/2PK-130V | 97857 | 1-8 |
| 25A/SG/CD-PQ1/5 | 46645 | 1-8 |
| 25A/TB 6PK | 49724 | 1-8 |
| 25A/TE 6PK | 22732 | 1-8 |
| 25A/TG 6PK | 49725 | 1-8 |
| 25A/TP 6 PK | 22731 | 1-8 |
| 25A/TP-CD 6PK | 16333 | 1-8 |
| 25A/TPK 6PK | 22730 | 1-8 |
| 25A/TR 6PK | 49727 | 1-8 |
| 25A/TY 6PK | 49728 | 1-8 |
| 25A/TY-CD 6PK | 16335 | 1-8 |
| 25A/W-2/10PK | 97765 | 1-8 |
| 25A/W-2PK | 97492 | 1-8 |
| 25BC 25PK | 15787 | 1-17 |
| 25BC/H/CD2 | 16764 | 2-7 |
| 25BC/RVL CD2 | 48700 | 1-17 |
| 25BC10/CF/CD2-MP | 74978 | 1-17 |
| 25BC10RVL/CF2-MP | 74979 | 1-17 |
| 25BC8/CF2/PK5-MP | 75258 | 1-17 |
| 25BFM/H/CD2 | 16766 | 2-7 |
| 25BM CD2 | 22756 | 1-17 |
| 25BM/C33/CF2-TP5 | 75322 | 1-17 |
| 25BM/H/CD2 | 16760 | 2-7 |
| 25CAC 25PK | 15777 | 1-17 |
| 25CAC/CL/CD2-MPD | 66104 | 1-17 |
| 25CAC/CL/CD4-MPD | 76234 | 1-17 |
| 25CAC/F/CD2-MPD | 66105 | 1-17 |
| 25CAC/F/CD4-MPD | 76235 | 1-17 |
| 25CAC/L | 40045 | 1-17 |
| 25CAC/L/BB-CD4 | 16365 | 1-17 |
| 25FM/A/CF2-TP4 | 75339 | 1-17 |
| 25FM/AU/CF2-TP4 | 75340 | 1-17 |
| 25FM/C/CF2-TP4 | 75337 | 1-17 |
| 25FM/W/CF2-TP4 | 75338 | 1-17 |
| 25G25 6PK | 12983 | 1-17 |
| 25G25 CPK | 25545 | 1-17 |
| 25G25 CPK | 25545 | 1-19 |
| 25G25/W 6PK | 12982 | 1-17 |
| 25G25/W CPK | 25546 | 1-17 |
| 25G25/W CPK | 25546 | 1-19 |
| 25GC 12PK | 11303 | 1-17 |
| 25GC 25PK | 15790 | 1-17 |
| 25GC CD2 | 17722 | 1-17 |
| 25GC/AU/CD2 4PK | 72801 | 1-17 |
| 25GC/CL/CD2 4PK | 72800 | 1-17 |
| 25GC/RVL CD2 | 48703 | 1-17 |
| 25GC/W 12PK | 39679 | 1-17 |
| 25GC/W PQ2/6 | 44412 | 1-17 |
| 25GM/CL-PQ2/6 | 31106 | 1-17 |
| 25GM/W-PQ2/6 | 31107 | 1-17 |
| 25PAR36 | 14553 | 1-8 |
| 25PAR36/NSP | 14554 | 1-8 |
| 25PAR36/VWFL | 14556 | 1-8 |
| 25PAR36/WFL | 14555 | 1-8 |
| 25PAR46 | 14562 | 1-9 |
| 25R14N | 18230 | 1-9 |
| 25R14N | 39156 | 1-9 |
| 25R14SC/SP | 33405 | 1-9 |
| 25S11/4SC | 14575 | 1-9 |
| 25T10 24PK | 14880 | 1-9 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| 25T10 CD1-5PK | 45144 | 1-9 |
| 25T10/F CD1-5PK | 45513 | 1-9 |
| 25T61/2 | 14639 | 1-9 |
| 25T61/2 | 14641 | 1-9 |
| 25T61/2 CD1-6PK | 44727 | 1-9 |
| 25T61/2/DC | 14678 | 1-9 |
| 25T61/2/F | 14668 | 1-9 |
| 25T61/2DC | 14676 | 1-9 |
| 25T61/2DC/F | 14685 | 1-9 |
| 25T7DC | 14741 | 1-9 |
| 25T7N | 14791 | 1-9 |
| 25T7N-CD 6PK | 10692 | 1-9 |
| 2604X | 43805 | 8-27 |
| 265 | 44719 | 8-23 |
| 27R20/FL/LL 6PK | 47681 | 1-9 |
| 29A/CL/H-2PK | 78795 | 2-6 |
| 29A/CL/RVL/H-2PK | 62607 | 2-6 |
| 29A/W/2X/H/4PK | 60285 | 2-6 |
| 29A/W/H-2PK | 63002 | 2-6 |
| 29A/W/H-4/12PK | 66246 | 2-6 |
| 29A/W/RVL/H-2PK | 63006 | 2-6 |
| 29BM/H/CD2 | 60269 | 2-7 |
| 29CAM/H/CD2 | 60273 | 2-7 |
| 29G25/H/CL | 60100 | 2-8 |
| 29G25/H/W | 60199 | 2-8 |
| 30/100-1PK | 97493 | 1-9 |
| 30/100-HALOGEN | 24699 | 2-7 |
| 30/100RVL- PQ1/12 | 97784 | 1-9 |
| 300 | 12025 | 1-14 |
| 300/IF | 21079 | 1-14 |
| 300M/130V-PK6 | 73788 | 1-14 |
| 300M/IF/130V-PK3 | 73790 | 1-14 |
| 300PAR56/MFL | 20836 | 1-15 |
| 300PAR56/MFL | 20838 | 1-15 |
| 300PAR56/NSP | 20803 | 1-15 |
| 300PAR56/WFL | 20849 | 1-15 |
| 300PAR56/WFL | 20851 | 1-15 |
| 300PAR56/WFL | 23427 | 1-15 |
| 300R/3FL | 21254 | 1-15 |
| 300R/FL | 21213 | 1-14 |
| 300R/FL | 21215 | 1-14 |
| 300R/FL/1 | 21229 | 1-14 |
| 300R/SP | 21197 | 1-14 |
| 301 | 81642 | 8-23 |
| 3011 | 36508 | 8-27 |
| 303 | 81641 | 8-23 |
| 304 | 81643 | 8-23 |
| 305 | 26143 | 8-23 |
| 3057 | 12305 | 8-27 |
| 3057 | 18389 | 8-27 |
| 3057 LL | 26378 | 8-27 |
| 3057 NH | 89243 | 8-27 |
| 3057/BP2 | 12305 | 8-16 |
| 3057NA | 12313 | 8-27 |
| 3057NA | 18391 | 8-27 |
| 305AF | 26145 | 8-23 |
| 306 | 26152 | 8-23 |
| 307 | 81644 | 8-23 |
| 3078 | 14698 | 8-27 |
| 307AF | 26161 | 8-23 |
| 308 | 81645 | 8-23 |
| 308AF | 81646 | 8-23 |
| 309 | 26175 | 8-23 |
| 30R20/1 | 46848 | 1-9 |
| 30R20/1-6PK | 14891 | 1-9 |

| Description | Order Code | Page Number |
|--------------------|------------|-------------|
| 30R20/6 | 46849 | 1-9 |
| 30S11/DC/RS | 17948 | 1-9 |
| 311 | 81647 | 8-23 |
| 313 | 81649 | 8-23 |
| 313 | 81650 | 8-23 |
| 315 | 81651 | 8-23 |
| 3155 | 23028 | 8-27 |
| 3156 | 12351 | 8-27 |
| 3156 | 21863 | 8-27 |
| 3156 LL | 27565 | 8-27 |
| 3156 NH | 71898 | 8-27 |
| 3156/BP2 | 12351 | 8-16 |
| 3157 | 12306 | 8-27 |
| 3157 | 17172 | 8-27 |
| 3157 LL | 26377 | 8-27 |
| 3157 NH | 89244 | 8-27 |
| 3157/BP2 | 12306 | 8-16 |
| 3157NA | 12314 | 8-27 |
| 3157NA | 17173 | 8-27 |
| 3157NA LL | 26380 | 8-27 |
| 3157NA NH | 71893 | 8-27 |
| 3157NA/BP2 | 12314 | 8-16 |
| 316 | 81652 | 8-23 |
| 317 | 80862 | 8-23 |
| 327 | 28519 | 8-23 |
| 328 | 28546 | 8-23 |
| 330 | 28567 | 8-23 |
| 334 | 28588 | 8-23 |
| 3357/3457 | 14387 | 8-27 |
| 3357/3457 | 22525 | 8-27 |
| 3357/3457 LL | 26379 | 8-27 |
| 3357NA/3457NA | 14388 | 8-27 |
| 3357NA/3457NA | 22526 | 8-27 |
| 3457/BP2 | 14387 | 8-16 |
| 3457NH | 71901 | 8-27 |
| 3496 | 25834 | 8-27 |
| 3497 | 25835 | 8-27 |
| 350PAR56/SP | 19866 | 1-15 |
| 356 | 26255 | 8-23 |
| 35AR111/FL24 | 97533 | 2-8 |
| 35AR111/SP4 | 72253 | 2-8 |
| 35AR111/SP8 | 97532 | 2-8 |
| 35MR16/6/TL-AX | 81282 | 2-8 |
| 35MR16/Q/8/TL-AX | 78816 | 2-8 |
| 35PAR16CURIO | 20641 | 2-6 |
| 35PAR20H/F25-PQ1/6 | 85476 | 2-6 |
| 35PAR20H/YR-TP12 | 71740 | 2-6 |
| 35PAR36/H/FL30 | 19877 | 2-6 |
| 35PAR36/H/SP5 | 19873 | 2-6 |
| 35PAR36/H/SP8 | 19876 | 2-6 |
| 35PAR36/H/VVWFL | 42072 | 2-6 |
| 3652 | 25837 | 8-27 |
| 37 | 17460 | 8-22 |
| 37 | 26480 | 8-22 |
| 37 | 39220 | 8-22 |
| 375R40 | 21331 | 1-15 |
| 375R40/1 | 21334 | 1-15 |
| 380 | 87381 | 8-23 |
| 381 | 28653 | 8-23 |
| 382 | 28657 | 8-23 |
| 385 | 28660 | 8-23 |
| 386 | 28662 | 8-23 |
| 387 | 25090 | 8-23 |
| 387 | 28664 | 8-23 |
| 388 | 28672 | 8-23 |

| Description | Order Code | Page Number |
|--------------------|------------|-------------|
| 38PAR20H/FL25 | 69163 | 2-6 |
| 38PAR20H/FL25/P2 | 69165 | 2-6 |
| 38PAR20H/SP10 | 69164 | 2-6 |
| 38PAR20HIR+/FL30 | 69148 | 2-6 |
| 38PAR20HIR+/SP15 | 69149 | 2-6 |
| 38PAR30H/FL25 | 69166 | 2-6 |
| 38PAR30H/SP10 | 69167 | 2-6 |
| 38PAR30L/H/FL25 | 69168 | 2-6 |
| 38PAR30L/H/SP10 | 69169 | 2-6 |
| 38PAR38H1500F25/P2 | 60074 | 2-5 |
| 38PARH1500FL25 | 69136 | 2-5 |
| 38PARH1500SP10 | 69135 | 2-5 |
| 394 | 87398 | 8-23 |
| 3CAC/FF/CD1-6PK | 73254 | 1-16 |
| 3S6/5 24PK | 11098 | 1-7 |
| 400 | 38918 | 8-23 |
| 4000 | 18511 | 8-14 |
| 4000 | 18511 | 8-31 |
| 400R40/FL | 17542 | 1-15 |
| 4013 | 24327 | 8-31 |
| 4014 | 24338 | 8-31 |
| 4019 | 24369 | 8-31 |
| 4040 | 38418 | 8-31 |
| 4042 | 39585 | 8-31 |
| 4044 | 40588 | 8-31 |
| 4044-1 | 10540 | 8-31 |
| 40A 48PK | 13255 | 1-15 |
| 40A/CL-2PK | 97470 | 1-15 |
| 40A/RVL 48PK | 48687 | 1-15 |
| 40A/W 48PK | 13257 | 1-15 |
| 40A15 | 15199 | 1-9 |
| 40A15 CARD 12PK | 15206 | 1-9 |
| 40A15 CD/2 | 21188 | 1-9 |
| 40A15/CA/CF/CD2 | 71393 | 1-10 |
| 40A15/CA/W/CF-CD2 | 71394 | 1-10 |
| 40A15/CF/CD2 6PK | 44409 | 1-9 |
| 40A15/CF/RVL CD2 | 48696 | 1-9 |
| 40A15/CF/STGPQ2/6 | 46887 | 1-10 |
| 40A15/F 120PK | 27451 | 1-9 |
| 40A15/FF/CD | 27495 | 1-9 |
| 40A15/RVL CD2 | 48706 | 1-10 |
| 40A15/RVL-PQ1/6 | 31084 | 1-10 |
| 40A15W/CF/CD2 6PK | 44410 | 1-9 |
| 40A15WCF/RVL CD2 | 48697 | 1-10 |
| 40BC 25PK | 15788 | 1-18 |
| 40BC/H/CD2 | 16765 | 2-7 |
| 40BC/RVL CD2 | 48701 | 1-18 |
| 40BC/RVL/CF-T4/6 | 74035 | 1-18 |
| 40BC10/CF/CD2-MP | 75033 | 1-18 |
| 40BC10RVL/CF2-MP5 | 75034 | 1-18 |
| 40BC8/CF2/PK5-MP | 75259 | 1-18 |
| 40BFM/CF2/PK4-MP | 75317 | 1-18 |
| 40BFM/H/CD2 | 16767 | 2-7 |
| 40BM CD2 | 12993 | 1-18 |
| 40BM/H/CD2 | 16761 | 2-7 |
| 40BM/RVL CD2 | 48699 | 1-18 |
| 40BM/RVL/CD2-4PK | 72780 | 1-18 |
| 40CAC 25PK | 15778 | 1-18 |
| 40CAC/CL/CD2-MPD | 76236 | 1-18 |
| 40CAC/CL/CD4-MPD | 76237 | 1-18 |
| 40CAC/F/CD2-MPD | 66106 | 1-18 |
| 40CAC/F/CD4-MPD | 76238 | 1-18 |
| 40CAC/L/BB-CD4 | 48341 | 1-18 |
| 40CAM/CF6/PK5-MP | 75335 | 1-18 |
| 40CAM/CL/CD2-MPD | 66109 | 1-18 |

Index (cont.)

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| 40CAM/CL/CD4-MPD | 76230 | 1-18 |
| 40CAM/L/BB CD4 | 48342 | 1-18 |
| 40CAM/LL/BB CD2 | 22813 | 1-18 |
| 40FM/A/CF2-TP4 | 75344 | 1-18 |
| 40FM/AU/CF2-TP4 | 75343 | 1-18 |
| 40FM/C/CF2-TP4 | 75341 | 1-18 |
| 40FM/W/CF2-TP4 | 75342 | 1-18 |
| 40G25 6PK | 12980 | 1-18 |
| 40G25 CPK | 25548 | 1-18 |
| 40G25 CPK | 25548 | 1-19 |
| 40G25/CL/H/RVL | 82140 | 2-8 |
| 40G25/H/CRYSTAL | 16774 | 2-8 |
| 40G25/W 6PK | 12979 | 1-18 |
| 40G25/W CPK | 25547 | 1-18 |
| 40G25/W CPK | 25547 | 1-19 |
| 40G25C/RVL PQ1/6 | 48694 | 1-18 |
| 40G25H/CRV/RV-TP | 71373 | 2-8 |
| 40G25W/RVL PQ1/6 | 48695 | 1-18 |
| 40G40/W 6PK | 36191 | 1-18 |
| 40GC 12PK | 14958 | 1-18 |
| 40GC CD2 | 17730 | 1-18 |
| 40GC/AU/CD2-4PK | 72803 | 1-18 |
| 40GC/CL/CD2-4PK | 72802 | 1-18 |
| 40GC/CL/H-PQ2/3 | 82131 | 2-8 |
| 40GC/RVL CD2 | 48704 | 1-18 |
| 40GC/W PQ2/6 | 44414 | 1-18 |
| 40GC/W/CD2-4PK | 72209 | 1-18 |
| 40GC/W/RVL CD2 | 48705 | 1-18 |
| 40GM/CL-PQ2/6 | 31109 | 1-18 |
| 40GM/CL/H-PQ2/3 | 82133 | 2-8 |
| 40GM/W-PQ2/6 | 31110 | 1-18 |
| 40R14/CD | 25776 | 1-10 |
| 40R14/N/CD | 25777 | 1-10 |
| 40R16/CD | 25781 | 1-10 |
| 40S11N/1 CARD | 35156 | 1-10 |
| 40S11N/1/F | 15734 | 1-10 |
| 40T10 | 15852 | 1-10 |
| 40T10/CL CD1-5PK | 45514 | 1-10 |
| 40T10/F | 15892 | 1-10 |
| 40T10/F CD1-5PK | 45145 | 1-10 |
| 40T10/F/RVL CD1 | 48709 | 1-10 |
| 40T10/H/CD | 16777 | 2-8 |
| 40T10/RVL CD1 | 48707 | 1-10 |
| 40T10P | 15921 | 1-16 |
| 40T6 1/2/2 | 15740 | 1-10 |
| 40T61/2/2CD1-6PK | 44422 | 1-10 |
| 40T61/2/2F | 15742 | 1-10 |
| 4157LL | 15657 | 8-27 |
| 4157NA LL | 47458 | 8-27 |
| 4313 | 25051 | 8-31 |
| 4340 | 39366 | 8-31 |
| 4350 | 39362 | 8-31 |
| 43A/CL/H-2PK | 78796 | 2-6 |
| 43A/CL/RVL/H-2PK | 62616 | 2-6 |
| 43A/W/2X/H/4PK | 60071 | 2-7 |
| 43A/W/H-2PK | 63003 | 2-6 |
| 43A/W/H-4/12PK | 66247 | 2-7 |
| 43A/W/RVL/H-2PK | 63007 | 2-7 |
| 43BM/H/CD2 | 60271 | 2-7 |
| 43CAM/H/CD2 | 60276 | 2-7 |
| 43G25/H/CL | 60076 | 2-8 |
| 43G25/H/W | 60109 | 2-8 |
| 44 | 25450 | 8-22 |
| 4402A | 12961 | 8-31 |
| 4405 | 24425 | 8-31 |

| Description | Order Code | Page Number |
|-------------|------------|-------------|
| 4406 | 24430 | 8-31 |
| 4410 | 24439 | 8-31 |
| 4411 | 24448 | 8-14 |
| 4411 | 24448 | 8-31 |
| 4411-1 | 37889 | 8-31 |
| 4411-3 | 29040 | 8-31 |
| 4412 | 24454 | 8-14 |
| 4412 | 24454 | 8-31 |
| 4412A | 24460 | 8-14 |
| 4412A | 24460 | 8-31 |
| 4413 | 22981 | 8-31 |
| 4414 | 24478 | 8-14 |
| 4414 | 24478 | 8-31 |
| 4414R | 24487 | 8-31 |
| 4415 | 22982 | 8-14 |
| 4415 | 22982 | 8-31 |
| 4415A | 24499 | 8-14 |
| 4415A | 24499 | 8-31 |
| 4416 | 22983 | 8-31 |
| 4416-1 | 34901 | 8-31 |
| 4416A | 24506 | 8-31 |
| 4416R | 24513 | 8-31 |
| 4419 | 24531 | 8-31 |
| 4421 | 24539 | 8-14 |
| 4421 | 24539 | 8-31 |
| 4422 | 24542 | 8-31 |
| 4434A | 24572 | 8-14 |
| 4434A | 24572 | 8-31 |
| 4435 | 24577 | 8-31 |
| 4436 | 24582 | 8-31 |
| 4440X | 39932 | 8-31 |
| 4440X-1 | 39748 | 8-31 |
| 4446 | 37046 | 8-31 |
| 4460X | 40176 | 8-31 |
| 4461 | 24592 | 8-31 |
| 4466 | 24596 | 8-31 |
| 4478 | 24613 | 8-31 |
| 4502 | 24627 | 8-31 |
| 4505 | 24640 | 8-31 |
| 4509 | 24650 | 8-31 |
| 4509X | 41503 | 8-31 |
| 4509Y | 11524 | 8-31 |
| 4510 | 24654 | 8-31 |
| 4511 | 24663 | 8-31 |
| 4515 | 24673 | 8-31 |
| 4516 | 24678 | 8-31 |
| 4519 | 24690 | 8-32 |
| 4522 | 24700 | 8-32 |
| 4530 | 24721 | 8-32 |
| 4531 | 24726 | 8-32 |
| 4532 | 19628 | 8-32 |
| 4535 | 24735 | 8-32 |
| 4537 | 24742 | 8-32 |
| 4537-2 | 40822 | 8-32 |
| 4537X | 39022 | 8-32 |
| 4541 | 24756 | 8-32 |
| 4543 | 24764 | 8-32 |
| 4545 | 24768 | 8-32 |
| 4546 | 24780 | 8-32 |
| 4546-1 | 24770 | 8-32 |
| 4551 | 24795 | 8-32 |
| 4552 | 40576 | 8-32 |
| 4553 | 24799 | 8-32 |
| 4554 | 24802 | 8-32 |
| 4557 | 40581 | 8-32 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| 4559 | 40578 | 8-32 |
| 456 | 26441 | 8-23 |
| 4570 | 24828 | 8-32 |
| 4571 | 24830 | 8-32 |
| 4572 | 24833 | 8-32 |
| 4578 | 25005 | 8-32 |
| 4579 | 25009 | 8-32 |
| 4580 | 24859 | 8-32 |
| 4581 | 24862 | 8-32 |
| 4582 | 24853 | 8-32 |
| 4587 | 24867 | 8-32 |
| 4589 | 24873 | 8-32 |
| 4589-1 | 23509 | 8-32 |
| 4591 | 24882 | 8-32 |
| 4593 | 24887 | 8-32 |
| 4594 | 24891 | 8-32 |
| 4595 | 24892 | 8-32 |
| 4596 | 24898 | 8-32 |
| 45BR30/H/HIR-TP6 | 74206 | 2-6 |
| 45BR40/H/HIR-TP6 | 74207 | 2-6 |
| 45PAR/HIR+/FL25 | 90513 | 2-5 |
| 45PAR/HIR+/SP10 | 90512 | 2-5 |
| 45R/FL/MI-1 6PK | 20330 | 1-10 |
| 45R20/130V | 73029 | 1-10 |
| 45R20/FL/LL 6PK | 47682 | 1-10 |
| 45R20/H/HIR-TP6 | 74204 | 2-6 |
| 45R20/RVL PK1/6 | 73439 | 1-10 |
| 45R20/TWIN | 18279 | 1-10 |
| 45R20/YR | 73026 | 1-10 |
| 45R20/YR-PK2/3 | 73025 | 1-10 |
| 45R20MI/1-6PK | 14878 | 1-10 |
| 45R30/FL/LL 6PK | 26804 | 1-10 |
| 4626 | 24964 | 8-32 |
| 4627 | 24966 | 8-32 |
| 4635 | 33284 | 8-32 |
| 4636-3 | 19632 | 8-32 |
| 464 | 39645 | 8-23 |
| 4651 | 18517 | 8-14 |
| 4651 | 18517 | 8-32 |
| 4652 | 18518 | 8-14 |
| 4652 | 18518 | 8-32 |
| 47 | 25485 | 8-22 |
| 4700 | 39906 | 8-32 |
| 4713 | 46427 | 8-32 |
| 4752 | 44724 | 8-32 |
| 4800 | 24973 | 8-14 |
| 4800 | 24973 | 8-32 |
| 4811 | 24980 | 8-32 |
| 4825R | 24981 | 8-32 |
| 4880 | 24995 | 8-32 |
| 48PAR/HIR+/FL25 | 90519 | 2-5 |
| 48PAR/HIR+/SP10 | 90515 | 2-5 |
| 48PAR30/HIR+/FL30 | 76126 | 2-6 |
| 48PAR30/HIR+/SP10 | 76127 | 2-6 |
| 48PAR30/L/HIR+/FL | 73546 | 2-6 |
| 48PAR30/L/HIR+/SP | 74779 | 2-6 |
| 48PAR30HIR+/NFL | 66580 | 2-6 |
| 4912-1 | 45110 | 8-14 |
| 4912-1 | 45110 | 8-32 |
| 4913-1 | 45113 | 8-32 |
| 4921-1 | 45116 | 8-14 |
| 4921-1 | 45116 | 8-32 |
| 4C7 CARD 2 | 43050 | 1-7 |
| 4C7/BL CD2 6PK | 26223 | 1-7 |
| 4C7/BL/CD2-6PK | 73260 | 1-7 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| 4C7/PK-CD2 6PK | 26222 | 1-7 |
| 4C7/PK/CD2-6PK | 73259 | 1-7 |
| 4C7/S CD4 | 20572 | 1-7 |
| 4C7/S/CD4-6PK | 73257 | 1-7 |
| 4C7/S/W/CD4-6PK | 73258 | 1-7 |
| 4C7/W CD2 | 16001 | 1-7 |
| 4C7/W/S CD4 | 20573 | 1-7 |
| 50/150-1PK | 97494 | 1-11 |
| 50/150-2PK | 97763 | 1-11 |
| 50/150-HALOGEN | 81590 | 2-7 |
| 50/150/H/RVL-TP6 | 71367 | 2-7 |
| 50/150/LL-1/12PK | 97781 | 1-11 |
| 50/150/RVL-2PK | 97469 | 1-11 |
| 50/150RVL-1/12PQ | 97785 | 1-11 |
| 50/250/1-1PK | 97482 | 1-11 |
| 500 | 21532 | 1-15 |
| 5001 | 11639 | 8-32 |
| 5004 CW | 28154 | 8-27 |
| 5004 WW | 28155 | 8-27 |
| 5008CW | 28160 | 8-27 |
| 5008WW | 28163 | 8-27 |
| 500PAR64/MFL | 39409 | 1-15 |
| 500PAR64/MFL | 39411 | 1-15 |
| 500PAR64/MFL | 39409 | 7-8 |
| 500PAR64/MFL | 39411 | 7-8 |
| 500PAR64/NSP | 39406 | 1-15 |
| 500PAR64/NSP | 39406 | 7-8 |
| 500PAR64/WFL | 39412 | 1-15 |
| 500PAR64/WFL | 39414 | 1-15 |
| 500PAR64/WFL | 39412 | 7-8 |
| 500PAR64/WFL | 39414 | 7-8 |
| 500R/3FL | 21734 | 1-15 |
| 500R/3FL | 21736 | 1-15 |
| 500R40/5FL/SLV | 48316 | 1-15 |
| 5013CW | 28168 | 8-27 |
| 5013WW | 28169 | 8-27 |
| 50A19/RS/SH | 16201 | 1-10 |
| 50AR111/FL24 | 97535 | 2-8 |
| 50AR111/SP4 | 72254 | 2-8 |
| 50AR111/SP8 | 97534 | 2-8 |
| 50AR70/SP8 | 72255 | 2-8 |
| 50ER30 | 44429 | 1-10 |
| 50MR16/Q/10/TL | 30901 | 2-8 |
| 50MR16/Q/20/TL | 30900 | 2-8 |
| 50MR16/Q/40/TL | 30899 | 2-8 |
| 50PAR36/H/FL30 | 19880 | 2-6 |
| 50PAR36/H/SP5 | 19878 | 2-6 |
| 50PAR36/H/SP8 | 19879 | 2-6 |
| 50PAR36/NSP | 16540 | 1-10 |
| 50PAR36/VNSP | 12892 | 1-10 |
| 50PAR36/VWFL | 16542 | 1-10 |
| 50PAR36/WFL | 16541 | 1-10 |
| 50PAR36/WFL/4 | 11468 | 1-10 |
| 50PARHIR+3KF25P2 | 66284 | 2-5 |
| 50PARHIR+3KFL25T | 62714 | 2-5 |
| 50PARHIR+3KS10P2 | 66283 | 2-5 |
| 50PARHIR+3KSP10T | 62713 | 2-5 |
| 50R20/BLB 6PK | 22752 | 1-10 |
| 50R20/PL/1-6PK | 14888 | 1-10 |
| 5104 WW | 28173 | 8-27 |
| 5104CW | 27367 | 8-27 |
| 5106CW | 12774 | 8-27 |
| 5106WW | 33612 | 8-27 |
| 5108 WW | 28175 | 8-27 |
| 5108CW | 27466 | 8-27 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| 5113 WW | 28178 | 8-27 |
| 5113CW | 12775 | 8-27 |
| 53 | 25550 | 8-22 |
| 53 | 25552 | 8-22 |
| 53A/CL/H-2PK | 78797 | 2-7 |
| 53A/CL/RVL/H-2PK | 62617 | 2-7 |
| 53A/W/2X/H/4PK | 60070 | 2-7 |
| 53A/W/H-2PK | 63004 | 2-7 |
| 53A/W/H-4/12PK | 66248 | 2-7 |
| 53A/W/RVL/H-2PK | 63008 | 2-7 |
| 53PARHIR+8KF25T2 | 68957 | 2-5 |
| 53PARHIR+XL/FL25 | 76143 | 2-5 |
| 53PARHIR+XL/SP10 | 76142 | 2-5 |
| 53PARHIR+XLF25P6 | 67823 | 2-5 |
| 53PARHIR+XLS10P6 | 67822 | 2-5 |
| 5557 | 16152 | 8-32 |
| 55PAR/HIR+/FL25 | 71598 | 2-5 |
| 55PAR/HIR+/SP10 | 71446 | 2-5 |
| 55PAR/HIR+/WFL | 69819 | 2-5 |
| 561 | 11820 | 8-23 |
| 561 | 12358 | 8-23 |
| 561 | 39746 | 8-23 |
| 562 | 23019 | 8-23 |
| 563 | 11825 | 8-23 |
| 57 | 23218 | 8-22 |
| 57 | 25591 | 8-22 |
| 58540 | 47461 | 8-29 |
| 590 | 18442 | 8-23 |
| 6.6A/T10/1P | 23294 | 1-16 |
| 6.6A/T10P | 23295 | 1-16 |
| 6.6A/T14P | 23298 | 1-16 |
| 6006 | 25114 | 8-14 |
| 6006 | 25114 | 8-32 |
| 6014 | 18519 | 8-14 |
| 6014 | 18519 | 8-32 |
| 6015 | 38416 | 8-14 |
| 6015 | 38416 | 8-32 |
| 6034BP | 29897 | 8-27 |
| 6034BPGPL | 29895 | 8-27 |
| 6045 | 25153 | 8-32 |
| 6052 | 18521 | 8-14 |
| 6052 | 18521 | 8-32 |
| 60A 48PK | 41026 | 1-16 |
| 60A/BLB 6PK | 25905 | 1-11 |
| 60A/CL-2PK | 97490 | 1-16 |
| 60A/PL 6PK | 41624 | 1-11 |
| 60A/RS/STG-T2/12 | 72549 | 1-11 |
| 60A/RS130-PK2/12 | 72529 | 1-11 |
| 60A/S/130-TP2/12 | 72528 | 1-11 |
| 60A/SPK-2PK | 97483 | 1-11 |
| 60A/W 48PK | 41028 | 1-16 |
| 60A/W/LL-2PK | 97496 | 1-16 |
| 60AY-2PK | 97495 | 1-11 |
| 60A15/CA/CF/CD2 | 71395 | 1-11 |
| 60A15/CA/W/CF-CD2 | 71396 | 1-11 |
| 60A15/CF CD2 6PK | 44407 | 1-11 |
| 60A15/CF/RVL CD2 | 48698 | 1-11 |
| 60A15/W/CF-CD2 | 14029 | 1-11 |
| 60A15CF/STGPQ2/6 | 46888 | 1-11 |
| 60BC/RVL CD2 | 48714 | 1-19 |
| 60BC/RVL/CF-T4/6 | 74036 | 1-19 |
| 60BC10/CF/CD2-MP | 76229 | 1-19 |
| 60BC10RVL/CF2-MP | 75201 | 1-19 |
| 60BM/RVL CD2 | 48713 | 1-19 |
| 60BM/RVL/CD2-4PK | 72781 | 1-19 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| 60CAC 25PK | 15781 | 1-19 |
| 60CAC/CL/CD2-MPD | 66107 | 1-19 |
| 60CAC/CL/CD4-MPD | 76239 | 1-19 |
| 60CAC/F/CD2-MPD | 66108 | 1-19 |
| 60CAC/F/CD4-MPD | 76240 | 1-19 |
| 60G25/CL/H/RVL | 82141 | 2-8 |
| 60G40 6PK | 14187 | 1-19 |
| 60G40/W 6PK | 49780 | 1-19 |
| 60G40/W CPK | 16741 | 1-19 |
| 60GC CD2 | 23091 | 1-19 |
| 60GC/CD2-4PK | 72777 | 1-19 |
| 60GC/CL/H-PQ2/3 | 82132 | 2-8 |
| 60GC/W PQ2/6 | 44723 | 1-19 |
| 60GM/CL/H-PQ2/3 | 82134 | 2-8 |
| 60PAR/2/R | 17212 | 1-11 |
| 60PAR/HIR+/FL25 | 90529 | 2-5 |
| 60PAR/HIR+/SP10 | 90520 | 2-5 |
| 60PAR16/H/FL30 | 41623 | 2-6 |
| 60PAR16FL/RVL-CD | 82142 | 2-6 |
| 60PARH1500F25/P2 | 66280 | 2-5 |
| 60PARH1500FL25TP | 62704 | 2-5 |
| 60PARH1500S10/P2 | 66279 | 2-5 |
| 60PARH1500SP10TP | 62703 | 2-5 |
| 60PARHIR/FL30-6PK | 11878 | 2-5 |
| 60T10/H/CD | 16778 | 2-8 |
| 620PS40P | 21950 | 1-16 |
| 620PS40P | 21952 | 1-16 |
| 623 | 81653 | 8-23 |
| 623 | 81654 | 8-23 |
| 631 | 23023 | 8-23 |
| 631 | 26570 | 8-23 |
| 658 | 81670 | 8-23 |
| 658 | 81671 | 8-23 |
| 65BR30/H/RVL-TP | 75414 | 2-6 |
| 65BR40/H/HIR-TP6 | 77757 | 2-6 |
| 65R/FL/MI-TWIN | 18011 | 1-11 |
| 65R/FL/RVL PQ1/6 | 48692 | 1-11 |
| 65R30/FL | 46855 | 1-12 |
| 65R30/FL/LL 6PK | 26805 | 1-11 |
| 65R30/FL/LLPQ2/3 | 48917 | 1-11 |
| 65R30/FL/MI- 6PK | 20331 | 1-11 |
| 65R30/PL-1 6PK | 20996 | 1-12 |
| 65R30/RVL/TW-3PK | 73179 | 1-12 |
| 65R30/SP | 46856 | 1-12 |
| 65R30/SP/LL 6PK | 26806 | 1-11 |
| 65R30/SP/MI-6PK | 20332 | 1-11 |
| 65R30FL/COMM12PK | 22714 | 1-11 |
| 65R30FL/STGPQ1/6 | 47723 | 1-12 |
| 65R30FLRVL-PK2/3 | 11684 | 1-11 |
| 65R40/FL | 46861 | 1-12 |
| 65R40/FL/LL | 47683 | 1-12 |
| 65R40/FL/MI-6PK | 14016 | 1-12 |
| 65R40FL/RVL-TP6 | 87904 | 1-12 |
| 67 | 25652 | 8-16 |
| 67 | 12324 | 8-22 |
| 67 | 25652 | 8-22 |
| 67 | 25654 | 8-22 |
| 67NH | 71895 | 8-22 |
| 67PAR/HIR+/FL25 | 90602 | 2-5 |
| 67PAR/HIR+/SP10 | 90601 | 2-5 |
| 68 | 25692 | 8-22 |
| 680 | 87407 | 8-23 |
| 683 | 87336 | 8-23 |
| 6832 | 87360 | 8-27 |
| 6832AS15 | 87351 | 8-27 |

Index (cont.)

| Description | Order Code | Page Number |
|----------------------|------------|-------------|
| 6839 | 87291 | 8-27 |
| 6839BPE | 29893 | 8-27 |
| 6839BPEGPL | 29894 | 8-27 |
| 683AS15 | 87321 | 8-23 |
| 685 | 28706 | 8-23 |
| 6S6 | 11329 | 1-7 |
| 6S6 | 11372 | 1-7 |
| 6S6 | 11374 | 1-7 |
| 6S6 TRAY | 11367 | 1-7 |
| 6S6 TRAY | 11369 | 1-7 |
| 6S6 24PK | 11316 | 1-7 |
| 6S6 24PK | 11331 | 1-7 |
| 6S6 BB | 43397 | 1-7 |
| 6S6 CARD2 | 15820 | 1-7 |
| 6S6/3 | 11577 | 1-7 |
| 6S6/7 TRAY 24PK | 11660 | 1-7 |
| 6S6/DC TRAY | 11594 | 1-7 |
| 6S6DC 24PK | 11357 | 1-7 |
| 6S6DC 24PK | 11609 | 1-7 |
| 6S6DC TRAY | 11592 | 1-7 |
| 6T41/2/1 | 11764 | 1-7 |
| 7 1/2S TRAY | 11847 | 1-7 |
| 7 1/2S TRAY | 11848 | 1-7 |
| 7 1/2S/CW TRAY | 11922 | 1-7 |
| 70/240A/RL/SW6PK | 15846 | 1-12 |
| 705 | 43132 | 8-23 |
| 70PARHIR+3KF25P1 | 68978 | 2-5 |
| 70PARHIR+3KS10P1 | 68979 | 2-5 |
| 70PARHIR+3KS8P1 | 68980 | 2-5 |
| 71/2S/CW CARD | 41267 | 1-7 |
| 71/2S/CW/CD-5PK | 73261 | 1-7 |
| 713 | 87411 | 8-23 |
| 7132AS15 | 87274 | 8-27 |
| 71423 - GE432MAXP-N+ | 71423 | 10-21 |
| 715 | 29903 | 8-23 |
| 7152 | 87402 | 8-28 |
| 7152AS15 | 97548 | 8-28 |
| 715AS15 | 29901 | 8-23 |
| 718 | 29916 | 8-23 |
| 718AS15 | 29905 | 8-23 |
| 72A/CL/H-2PK | 78798 | 2-7 |
| 72A/CL/RV/L/H-2PK | 62618 | 2-7 |
| 72A/W/2X/H/4PK | 60035 | 2-7 |
| 72A/W/H-2PK | 63005 | 2-7 |
| 72A/W/H-4/12PK | 66249 | 2-7 |
| 72A/W/RV/L/H-2PK | 63009 | 2-7 |
| 73 | 23015 | 8-22 |
| 73 | 28770 | 8-22 |
| 7387 | 28926 | 8-28 |
| 74 | 21029 | 8-22 |
| 74 | 38457 | 8-22 |
| 74 | 38458 | 8-22 |
| 7400 | 40190 | 8-32 |
| 7400-1 | 42385 | 8-32 |
| 7414Y | 39987 | 8-32 |
| 7440 | 26200 | 8-28 |
| 7440LL | 67905 | 8-28 |
| 7443 | 26201 | 8-28 |
| 7443 NH | 89248 | 8-28 |
| 7443/BP2 | 26201 | 8-16 |
| 7443LL | 67906 | 8-28 |
| 755 | 26591 | 8-23 |
| 756 | 26593 | 8-24 |
| 757 | 81655 | 8-24 |
| 75A 48PK | 41030 | 1-16 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| 75A-2/24PK | 97779 | 1-16 |
| 75A/CL-2PK | 97468 | 1-16 |
| 75A/RS 12PK-5 | 18274 | 1-12 |
| 75A/RS 60PK | 17527 | 1-12 |
| 75A/RS/STG PQ1/6 | 46895 | 1-12 |
| 75A/RS/STG-TP6 | 72550 | 1-12 |
| 75A/RS130-PK6 | 72530 | 1-12 |
| 75A/RVL 48PK | 48689 | 1-16 |
| 75A/W 48PK | 41032 | 1-16 |
| 75A/W/LL-2PK | 97497 | 1-16 |
| 75AR111/FL24 | 97537 | 2-8 |
| 75AR111/FL45 | 97538 | 2-8 |
| 75AR111/SP8 | 97536 | 2-8 |
| 75E17/TF-4PK | 73289 | 1-19 |
| 75E17/TF-PK4 | 28917 | 1-19 |
| 75G40/W 6PK | 36193 | 1-19 |
| 75PAR/3FL/65WMM | 80314 | 1-12 |
| 75PAR/3FL/MINE | 80316 | 1-12 |
| 75PAR/3SP/MINE | 80319 | 1-12 |
| 75PAR/FL/EX-120 | 14510 | 1-16 |
| 75PAR16/H/FL30 | 41629 | 2-6 |
| 75PAR46/TS | 36473 | 1-12 |
| 75PARHIR+8KF25T2 | 68956 | 2-5 |
| 75PARHIR+8KFL25T | 62231 | 2-5 |
| 75PARHIR+8KSP10T | 62232 | 2-5 |
| 75R30/BLB 6PK | 22748 | 1-12 |
| 7613 | 41865 | 8-32 |
| 7613-1 | 45101 | 8-32 |
| 767 | 11014 | 8-24 |
| 7672-1 | 11421 | 8-33 |
| 773 | 11250 | 8-24 |
| 774 | 12723 | 8-24 |
| 774 | 12724 | 8-24 |
| 778 | 49718 | 8-24 |
| 780 | 18344 | 8-24 |
| 782 | 44840 | 8-24 |
| 782 | 44841 | 8-24 |
| 783 | 44500 | 8-24 |
| 783 | 44501 | 8-24 |
| 784 | 43760 | 8-24 |
| 784 | 43761 | 8-24 |
| 785 | 43762 | 8-24 |
| 785 | 43763 | 8-24 |
| 786 | 43764 | 8-24 |
| 786 | 43765 | 8-24 |
| 787 | 43115 | 8-24 |
| 787 | 43116 | 8-24 |
| 788 | 43117 | 8-24 |
| 788 | 43118 | 8-24 |
| 789 | 43119 | 8-24 |
| 790 | 43121 | 8-24 |
| 791 | 43123 | 8-24 |
| 791 | 43124 | 8-24 |
| 795 | 20469 | 8-24 |
| 7C7 TRAY | 11779 | 1-7 |
| 7C7 TRAY | 11792 | 1-7 |
| 7C7/W TRAY | 11815 | 1-7 |
| 80PARHIR+3KF25P1 | 66303 | 2-5 |
| 80PARHIR+3KF25P2 | 66307 | 2-5 |
| 80PARHIR+3KS10P1 | 66302 | 2-5 |
| 80PARHIR+3KS10P2 | 66306 | 2-5 |
| 83PAR/HIR+/FL25 | 90606 | 2-5 |
| 83PAR/HIR+/SP10 | 90605 | 2-5 |
| 85 | 40969 | 8-22 |
| 85PAR/FL/BLG 6PK | 20945 | 1-12 |

| Description | Order Code | Page Number |
|-------------|------------|-------------|
| 862 | 14132 | 8-24 |
| 862 | 40848 | 8-24 |
| 88 | 25772 | 8-22 |
| 880 | 12320 | 8-24 |
| 880 | 20904 | 8-24 |
| 880 LL | 27582 | 8-24 |
| 880 NH | 25101 | 8-24 |
| 880 NH | 25163 | 8-24 |
| 880/BP | 12320 | 8-12 |
| 880NH/BP | 25163 | 8-10 |
| 880NH/BP2 | 25101 | 8-10 |
| 881 | 12334 | 8-24 |
| 881 | 20905 | 8-24 |
| 881 LL | 27583 | 8-24 |
| 881/BP | 12334 | 8-12 |
| 882 | 13158 | 8-24 |
| 882 | 13161 | 8-24 |
| 882X | 18167 | 8-24 |
| 885 | 12335 | 8-24 |
| 885 | 20907 | 8-24 |
| 885/BP | 12335 | 8-12 |
| 886 | 14689 | 8-24 |
| 886 | 20909 | 8-24 |
| 886/BP | 14689 | 8-12 |
| 887 | 25639 | 8-24 |
| 888 | 25703 | 8-24 |
| 889 | 12336 | 8-24 |
| 889 | 20910 | 8-24 |
| 889/BP | 12336 | 8-12 |
| 89 | 12363 | 8-22 |
| 89 | 25778 | 8-22 |
| 89 LL | 47797 | 8-22 |
| 89/BP2 | 12363 | 8-16 |
| 890 | 12337 | 8-24 |
| 890 | 20911 | 8-24 |
| 890/BP | 12337 | 8-12 |
| 891 | 12308 | 8-24 |
| 891 | 15246 | 8-24 |
| 891 | 15248 | 8-24 |
| 891/BP | 12308 | 8-12 |
| 893 | 12338 | 8-24 |
| 893 | 20913 | 8-24 |
| 893 NH | 25102 | 8-24 |
| 893 NH | 25172 | 8-24 |
| 893/BP | 12338 | 8-12 |
| 893CL | 89115 | 8-24 |
| 893NH/BP | 25172 | 8-10 |
| 893NH/BP2 | 25102 | 8-10 |
| 894 | 18455 | 8-24 |
| 894 | 20238 | 8-24 |
| 894 | 22112 | 8-24 |
| 894/BP | 22112 | 8-12 |
| 896 | 20914 | 8-24 |
| 896 | 22113 | 8-24 |
| 896/BP | 22113 | 8-12 |
| 898 | 12271 | 8-24 |
| 898 | 98093 | 8-24 |
| 898/BP | 98093 | 8-12 |
| 899 | 12272 | 8-24 |
| 899 | 22111 | 8-24 |
| 899/BP | 22111 | 8-12 |
| 90 | 12364 | 8-22 |
| 90 | 25794 | 8-22 |
| 90 | 25796 | 8-22 |
| 9003 | 22389 | 8-12 |

| Description | Order Code | Page Number |
|---------------|------------|-------------|
| 9003 LL | 78935 | 8-28 |
| 9003 NH | 25107 | 8-28 |
| 9003 NH | 25150 | 8-28 |
| 9003 NHP | 75814 | 8-28 |
| 9003 NHS | 66004 | 8-28 |
| 9003 NHS | 89139 | 8-28 |
| 9003 NHS | 89230 | 8-28 |
| 9003 NHX | 69861 | 8-28 |
| 9003 NHX/BP2 | 69861 | 8-9 |
| 9003/BP | 22432 | 8-12 |
| 9003/BP | 22432 | 8-14 |
| 9003/BP2 | 72252 | 8-12 |
| 9003/HB2 | 22432 | 8-28 |
| 9003LL/BP | 78935 | 8-11 |
| 9003LL/BP | 78935 | 8-13 |
| 9003NH/BP | 25150 | 8-10 |
| 9003NH/BP* | 25150 | 8-14 |
| 9003NH/BP2 | 25107 | 8-10 |
| 9003NHP/BP2 | 75814 | 8-9 |
| 9003NHS/BP | 89139 | 8-10 |
| 9003NHS/BP2 | 66004 | 8-10 |
| 9004 | 13382 | 8-12 |
| 9004 LL | 13993 | 8-28 |
| 9004 NH | 25106 | 8-28 |
| 9004 NH | 25149 | 8-28 |
| 9004 NHP | 75815 | 8-28 |
| 9004 NHS | 97698 | 8-28 |
| 9004 NHS | 97699 | 8-28 |
| 9004/BP | 18508 | 8-12 |
| 9004/BP | 18508 | 8-14 |
| 9004/BP2 | 14604 | 8-12 |
| 9004/HB1 | 18508 | 8-28 |
| 9004LL/BP | 13993 | 8-11 |
| 9004LL/BP | 13993 | 8-13 |
| 9004NH/BP | 25149 | 8-10 |
| 9004NH/BP* | 25149 | 8-14 |
| 9004NH/BP2 | 25106 | 8-10 |
| 9004NHP/BP2 | 75815 | 8-9 |
| 9004NHS/BP | 97698 | 8-10 |
| 9004NHS/BP2 | 97699 | 8-10 |
| 9005 | 13384 | 8-12 |
| 9005 NH | 25105 | 8-28 |
| 9005 NH | 25148 | 8-28 |
| 9005 NHP | 75816 | 8-28 |
| 9005 NHS | 89140 | 8-28 |
| 9005 NHS | 89232 | 8-28 |
| 9005 NHX | 69862 | 8-28 |
| 9005 NHX/BP2 | 69862 | 8-9 |
| 9005 XS LL | 45866 | 8-28 |
| 9005/BP | 18509 | 8-12 |
| 9005/BP | 18509 | 8-14 |
| 9005/HB3 | 18509 | 8-28 |
| 9005NH/BP | 25148 | 8-10 |
| 9005NH/BP* | 25148 | 8-14 |
| 9005NH/BP2 | 25105 | 8-10 |
| 9005NHP/BP2 | 75816 | 8-9 |
| 9005NHS/BP | 89140 | 8-10 |
| 9005NHS/BP2 | 66005 | 8-10 |
| 9005XSL/LL/BP | 45866 | 8-11 |
| 9005XSL/LL/BP | 45866 | 8-13 |
| 9005XSL/LL/BP | 45866 | 8-14 |
| 9006 | 13397 | 8-12 |
| 9006 NH | 25104 | 8-28 |
| 9006 NH | 25147 | 8-28 |
| 9006 NHP | 75817 | 8-28 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| 9006 NHS | 97700 | 8-28 |
| 9006 NHS | 97701 | 8-28 |
| 9006 NHX | 69863 | 8-28 |
| 9006 NHX/BP2 | 69863 | 8-9 |
| 9006 XS LL | 45868 | 8-28 |
| 9006/BP | 18510 | 8-12 |
| 9006/BP | 18510 | 8-14 |
| 9006/BP2 | 25135 | 8-12 |
| 9006/HB4 | 18510 | 8-28 |
| 9006NH/BP | 25147 | 8-10 |
| 9006NH/BP* | 25147 | 8-14 |
| 9006NH/BP2 | 25104 | 8-10 |
| 9006NHP/BP2 | 75817 | 8-9 |
| 9006NHS/BP | 97700 | 8-10 |
| 9006NHS/BP2 | 97701 | 8-10 |
| 9006XSL/LL/BP | 45868 | 8-11 |
| 9006XSL/LL/BP | 45868 | 8-13 |
| 9006XSL/LL/BP | 45868 | 8-14 |
| 9007 | 20551 | 8-12 |
| 9007 LL | 78639 | 8-28 |
| 9007 NH | 25103 | 8-28 |
| 9007 NH | 25146 | 8-28 |
| 9007 NHP | 75818 | 8-29 |
| 9007 NHS | 97696 | 8-28 |
| 9007 NHS | 97697 | 8-29 |
| 9007 NHX | 69864 | 8-29 |
| 9007 NHX/BP2 | 69864 | 8-9 |
| 9007/BP | 22388 | 8-12 |
| 9007/BP | 22388 | 8-14 |
| 9007/BP2 | 25136 | 8-12 |
| 9007/HB5 | 22388 | 8-28 |
| 9007LL/BP | 78639 | 8-11 |
| 9007LL/BP | 78639 | 8-13 |
| 9007NH/BP | 25146 | 8-10 |
| 9007NH/BP* | 25146 | 8-14 |
| 9007NH/BP2 | 25103 | 8-10 |
| 9007NHP/BP2 | 75818 | 8-9 |
| 9007NHS/BP | 97696 | 8-10 |
| 9007NHS/BP2 | 97697 | 8-10 |
| 9008 (H13)/BP | 71342 | 8-12 |
| 9008(H13) | 71342 | 8-29 |
| 9008(H13) NH | 78653 | 8-29 |
| 9008(H13) NHP | 62430 | 8-29 |
| 9008(H13) NHS | 78654 | 8-29 |
| 901 | 14273 | 8-24 |
| 901/LAND/BP2 | 71479 | 1-16 |
| 904 | 23024 | 8-24 |
| 904 | 40462 | 8-24 |
| 904 | 40463 | 8-24 |
| 906 | 12366 | 8-24 |
| 906 | 28763 | 8-24 |
| 906 | 40289 | 8-24 |
| 908 | 16858 | 8-24 |
| 908 | 44754 | 8-24 |
| 909 | 16859 | 8-24 |
| 909 | 44756 | 8-24 |
| 90A/Y-2PK | 61435 | 1-12 |
| 90PARH1500F25/P2 | 66282 | 2-5 |
| 90PARH1500FL25TP | 62706 | 2-5 |
| 90PARH1500S10/P2 | 66281 | 2-5 |
| 90PARH1500SP10TP | 62705 | 2-5 |
| 90PARHIR+3KF25P2 | 66286 | 2-5 |
| 90PARHIR+3KFL25T | 62716 | 2-5 |
| 90PARHIR+3KS10P2 | 66285 | 2-5 |
| 90PARHIR+3KSP10T | 62715 | 2-5 |

| Description | Order Code | Page Number |
|---------------------|------------|-------------|
| 912 | 12365 | 8-24 |
| 912 | 28767 | 8-24 |
| 912 | 40504 | 8-24 |
| 912 NH | 89242 | 8-24 |
| 912/BP2 | 12365 | 8-16 |
| 914 | 44769 | 8-24 |
| 9145/BP | 40843 | 8-12 |
| 9145/BP | 40843 | 8-12 |
| 9145/H10 | 40843 | 8-29 |
| 915 | 44771 | 8-24 |
| 915 | 44772 | 8-24 |
| 916 | 23025 | 8-24 |
| 916 | 28768 | 8-24 |
| 916NA | 21860 | 8-24 |
| 918 | 17837 | 8-24 |
| 918 | 40179 | 8-24 |
| 918/LAND/BP2 | 71480 | 1-16 |
| 921 | 12307 | 8-24 |
| 921 | 43374 | 8-24 |
| 921 | 45752 | 8-24 |
| 921 NH | 89238 | 8-24 |
| 921/BP2 | 12307 | 8-16 |
| 921XE | 85938 | 8-24 |
| 922 | 13274 | 8-24 |
| 922 | 13275 | 8-24 |
| 922 | 23027 | 8-24 |
| 922 NH | 71903 | 8-24 |
| 922/BP2 | 23027 | 8-16 |
| 923 | 40180 | 8-24 |
| 923/LAND/BP2 | 71481 | 1-16 |
| 926 | 13483 | 8-24 |
| 927 | 13485 | 8-25 |
| 927 | 13486 | 8-25 |
| 93 | 25811 | 8-16 |
| 93 | 17461 | 8-22 |
| 93 | 23217 | 8-22 |
| 93 | 25811 | 8-22 |
| 939 | 15285 | 8-25 |
| 939 | 16975 | 8-25 |
| 93NH | 71904 | 8-22 |
| 94 | 00764 | 8-22 |
| 94 | 25829 | 8-22 |
| 963 | 23684 | 8-25 |
| 97 | 12322 | 8-22 |
| 97 | 25836 | 8-22 |
| 97 | 25838 | 8-22 |
| 98 | 16287 | 8-22 |
| A-103 | 26696 | 8-29 |
| B1A | 12064 | 8-29 |
| B239PUNV-DOG1C | 47540 | 13-5 |
| B2A | 12065 | 8-29 |
| B7A | 31675 | 8-29 |
| BCM-Q20MT32/4CL | 48772 | 7-8 |
| BP-FM/TP | 64824 | 15-6 |
| BP-LP/TP | 64822 | 15-6 |
| BP/TP | 64823 | 15-6 |
| BTL-Q500T6/CL/P | 88547 | 7-7 |
| BTM-Q500T6/4CL/2P | 88546 | 7-7 |
| BTN-Q750T7/CL/2P | 88605 | 7-7 |
| BTP-Q750T7/4CL/2P | 88606 | 7-7 |
| BTR-Q1000T7/4CL/2P | 88607 | 7-7 |
| BVT-Q1000T7/CL/MP | 88608 | 7-7 |
| BVV-Q1000T7/4CL/MP | 88631 | 7-7 |
| BVV-Q2000T10/4CL/MP | 88609 | 7-8 |
| BWF-Q2000/4CL | 88611 | 7-8 |

Index (cont.)

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| C5W | 23312 | 8-29 |
| CAX | 29169 | 9-6 |
| CAX | 29171 | 9-6 |
| CDT-20-360-R | 63268 | 21-3 |
| CIR-05-360-D | 63270 | 21-3 |
| CIR-15-360-D | 63272 | 21-3 |
| CIR-15-360-D-T | 63273 | 21-3 |
| CIR-2H-360-D-T | 63274 | 21-3 |
| CMH100/C/U830MED | 22137 | 3-10 |
| CMH100/U/830/MED | 22127 | 3-10 |
| CMH100PAR38FLECO | 45681 | 3-10 |
| CMH100PAR38SPECO | 45680 | 3-10 |
| CMH100PAR38WFECO | 45682 | 3-10 |
| CMH150CU830MED/O | 31066 | 3-10 |
| CMH150CU942MED/O | 31068 | 3-10 |
| CMH150TDB30RX7S | 92589 | 3-11 |
| CMH150TD942RX7S | 92590 | 3-11 |
| CMH150TU/830/G12 | 20017 | 3-11 |
| CMH150TU/942/G12 | 20018 | 3-11 |
| CMH150U830MED/O | 31065 | 3-10 |
| CMH150U942MED/O | 31067 | 3-10 |
| CMH20MR16/830/FL | 85110 | 3-9 |
| CMH20MR16/830/SP | 85101 | 3-9 |
| CMH20MR16/830WFL | 97638 | 3-9 |
| CMH20PAR20/FL | 29486 | 3-9 |
| CMH20PAR20/SP | 29485 | 3-9 |
| CMH20PAR30/FL25 | 29489 | 3-9 |
| CMH20PAR30/SP10 | 29487 | 3-9 |
| CMH20PAR30/SP15 | 29488 | 3-9 |
| CMH20T/U/830/G12 | 29703 | 3-11 |
| CMH20T/U830GU6.5 | 85086 | 3-11 |
| CMH20TCU830/G8.5 | 92696 | 3-11 |
| CMH250/U/830/R | 93357 | 3-11 |
| CMH250/V/PA/O | 48429 | 3-11 |
| CMH250C/V/PA/O | 48432 | 3-11 |
| CMH320/V/PA/O | 17264 | 3-11 |
| CMH320C/V/PA/O | 17267 | 3-11 |
| CMH350/V/PA/O | 20035 | 3-11 |
| CMH350C/V/PA/O | 20036 | 3-11 |
| CMH39/930G12ULR | 79399 | 3-10 |
| CMH39/930G8.5ULR | 79400 | 3-11 |
| CMH39/PAR30LSP10 | 45066 | 3-9 |
| CMH39MR16/930/FL | 71489 | 3-9 |
| CMH39MR16/930/SP | 71488 | 3-9 |
| CMH39MR16/930WFL | 71490 | 3-9 |
| CMH39MR16/942/FL | 71492 | 3-9 |
| CMH39MR16/942/SP | 71491 | 3-9 |
| CMH39MR16/942WFL | 71493 | 3-9 |
| CMH39MR16UL93/FL | 62293 | 3-9 |
| CMH39MR16UL93/SP | 62292 | 3-9 |
| CMH39MR16UL93WFL | 62294 | 3-9 |
| CMH39PAR20/FL4K | 96527 | 3-9 |
| CMH39PAR20/NSP4K | 96526 | 3-9 |
| CMH39PAR30L/FL25 | 42067 | 3-9 |
| CMH39PAR30L/FL4K | 96530 | 3-9 |
| CMH39PAR30L/SP15 | 42066 | 3-9 |
| CMH39PAR30L/SP4K | 96529 | 3-9 |
| CMH39PAR30LNSP4K | 96528 | 3-9 |
| CMH39T/U/942/G12 | 29696 | 3-11 |
| CMH39T/U930GU6.5 | 71484 | 3-11 |
| CMH39T/U942GU6.5 | 71487 | 3-11 |
| CMH39TCU830/G8.5 | 90352 | 3-11 |
| CMH39TCU942/G8.5 | 29698 | 3-11 |
| CMH39TUVU830G12 | 20153 | 3-11 |
| CMH39ULR930GU6.5 | 62291 | 3-11 |

| Description | Order Code | Page Number |
|--------------------|------------|-------------|
| CMH39UPAR20FL25 | 42068 | 3-9 |
| CMH39UPAR20SP10 | 42069 | 3-9 |
| CMH400/C/V/PA/O | 17260 | 3-11 |
| CMH400/U/830/R | 93295 | 3-11 |
| CMH400/V/PA/O | 17259 | 3-11 |
| CMH70/C/U/830MED | 22124 | 3-10 |
| CMH70/TD/830RX7S | 92587 | 3-11 |
| CMH70/TD/942RX7S | 92588 | 3-11 |
| CMH70/U/830/MED | 22119 | 3-10 |
| CMH70CU830MED/O | 31070 | 3-10 |
| CMH70CU942MED/O | 31074 | 3-10 |
| CMH70PAR30L830FL | 22159 | 3-9 |
| CMH70PAR30L830SP | 22152 | 3-9 |
| CMH70PAR38FL/ECO | 45677 | 3-10 |
| CMH70PAR38SP/ECO | 45675 | 3-10 |
| CMH70PAR38WF/ECO | 45679 | 3-10 |
| CMH70TCU830G8.5 | 92585 | 3-11 |
| CMH70TCU942/G8.5 | 29701 | 3-11 |
| CMH70TU/830/G12 | 20016 | 3-11 |
| CMH70TU/942/G12 | 20023 | 3-11 |
| CMH70U830MED/O | 31069 | 3-10 |
| CMH70U930G12ULR | 73056 | 3-10 |
| CMH70U930G8.5ULR | 73057 | 3-11 |
| CMH70U942MED/O | 31073 | 3-10 |
| CMHi23P38FL/ECO | 76225 | 3-9 |
| CMHi23P38SP/ECO | 76224 | 3-9 |
| CMHi23P38WFL/ECO | 76226 | 3-9 |
| CSR1200/2/SE | 49490 | 7-9 |
| CSR1200/S/DE/60 | 22494 | 7-9 |
| CSR1200/SA | 21849 | 7-9 |
| CSR1200/SE/HR/UVC | 27764 | 7-9 |
| CSR12000/SE/HR | 48468 | 7-9 |
| CSR12000/SE/HR/UVC | 97272 | 7-9 |
| CSR125/SE/HR | 48461 | 7-9 |
| CSR1500/S/DE/60 | 96800 | 7-9 |
| CSR1500/TAL/60/S | 74873 | 7-9 |
| CSR1800/SE/HR/UVC | 77390 | 7-9 |
| CSR18000/DE | 48459 | 7-9 |
| CSR18000/SE/HR | 22496 | 7-9 |
| CSR200/DE | 48450 | 7-9 |
| CSR200/SE/HR/UVC | 48462 | 7-9 |
| CSR2500/SE/HR/UVC | 40482 | 7-9 |
| CSR300/2/TAL | 76160 | 7-9 |
| CSR400/SE/HR/UVC | 21853 | 7-9 |
| CSR4000/DE | 48455 | 7-9 |
| CSR4000/SE/HR/UVC | 27765 | 7-9 |
| CSR575/2/SE | 15378 | 7-9 |
| CSR575/S/DE/70 | 70979 | 7-9 |
| CSR575/SE/HR/UVC | 40460 | 7-9 |
| CSR575/SS/DE/75 | 45231 | 7-9 |
| CSR6000/SE/HR/UVC | 40492 | 7-9 |
| CSR700/2/SE | 49491 | 7-9 |
| CSR700/S/DE/72 | 41357 | 7-10 |
| CSR700/SA | 15380 | 7-9 |
| CSR800/SE/HR/UVC | 22495 | 7-9 |
| CSR9000/SE/HR | 65852 | 7-9 |
| CUS-05-180 | 63275 | 21-3 |
| CUS-05-180-R | 63276 | 21-3 |
| CUS-10-180 | 63277 | 21-3 |
| CUS-10-180-R | 63278 | 21-3 |
| CUS-20-360 | 63279 | 21-3 |
| CUS-20-360-R | 63280 | 21-3 |
| CKZ-Q1500T10/4CL | 88612 | 7-8 |
| CVV-Q1000T7/4CL/BP | 88630 | 7-7 |
| CYX-Q2000T10/4CL | 88610 | 7-8 |

| Description | Order Code | Page Number |
|---------------------|------------|-------------|
| D1S | 78734 | 8-29 |
| D1S Unit | 78734 | 8-11 |
| D1S UNIT | 78734 | 8-14 |
| D2R | 80851 | 8-29 |
| D2R Bulk | 46911 | 8-11 |
| D2R Unit | 80851 | 8-11 |
| D2R UNIT | 80851 | 8-14 |
| D2S | 25088 | 8-29 |
| D2S Blue | 90057 | 8-11 |
| D2S BLUE | 90057 | 8-29 |
| D2S Bulk | 48504 | 8-11 |
| D2S SUPERBLUE | 90059 | 8-29 |
| D2S Unit | 25088 | 8-11 |
| D2S UNIT | 25088 | 8-14 |
| DDL | 43537 | 9-6 |
| DE 3425 | 12085 | 8-29 |
| DE3021 | 25323 | 8-29 |
| DE3022 | 12353 | 8-29 |
| DE3175 | 12354 | 8-29 |
| DE3175 NH | 89245 | 8-29 |
| DE3175/BP2 | 12354 | 8-16 |
| DE3175LL | 67909 | 8-29 |
| DE7576 | 23324 | 8-29 |
| DED | 43950 | 9-6 |
| DKX/DSF-Q1500PS52/4 | 40357 | 7-8 |
| DKZ/DSE-Q1000PS52/4 | 39582 | 7-7 |
| DLM1000/927 | 99607 | 6-12 |
| DLM1000/930 | 99608 | 6-12 |
| DLM1000/935 | 99609 | 6-12 |
| DLM1000/940 | 99610 | 6-12 |
| DLM1500/927 | 99611 | 6-12 |
| DLM1500/930 | 99612 | 6-12 |
| DLM1500/935 | 99613 | 6-12 |
| DLM1500/940 | 99614 | 6-12 |
| DLM2000/927 | 99615 | 6-12 |
| DLM2000/930 | 99616 | 6-12 |
| DLM2000/935 | 99617 | 6-12 |
| DLM2000/940 | 99618 | 6-12 |
| DLM3000/927 | 99619 | 6-12 |
| DLM3000/930 | 99620 | 6-12 |
| DLM3000/935 | 99621 | 6-12 |
| DLM3000/940 | 99622 | 6-12 |
| DLM4000/927 | 99623 | 6-12 |
| DLM4000/930 | 99624 | 6-12 |
| DLM4000/935 | 99625 | 6-12 |
| DLM4000/940 | 99626 | 6-12 |
| DPY-Q5000T20/4CL | 41736 | 7-8 |
| DSE/Q1000 | 19926 | 7-7 |
| DTY-Q10M/T24/4CL | 24886 | 7-8 |
| DWE-Q650PAR36/1 | 41667 | 7-8 |
| DXB | 30151 | 9-6 |
| DXW-Q1000T5/4CL | 30157 | 7-7 |
| DYR | 33250 | 9-6 |
| DYS/DYV/BHC | 32955 | 7-7 |
| DYS/DYV/BHC | 32955 | 9-6 |
| DZA | 37346 | 9-6 |
| DZA | 37346 | 7-7 |
| EGE-Q500CL/P | 88617 | 7-7 |
| EGG-Q750CL/P | 88619 | 7-7 |
| EGJ-Q1000/4CL/P | 88615 | 7-7 |
| EKG-Q1000/4P | 88614 | 7-7 |
| EGN-Q500T8 | 88509 | 7-7 |
| EGR-Q750T7/4CL | 88621 | 7-7 |
| EGT-Q1000T7/4CL | 88622 | 7-7 |
| EHC-Q500/5CL | 88628 | 7-7 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| EHD-Q50OCL/TP | 88624 | 7-7 |
| EHF-Q750/4CL | 88627 | 7-7 |
| EHG-Q750CL/TP | 88626 | 7-7 |
| EHJ | 14874 | 9-6 |
| EJG-Q750T3/4CL | 23756 | 7-7 |
| EKE | 35200 | 9-6 |
| ELC | 37462 | 9-6 |
| ELC/500 | 15377 | 9-6 |
| EMD-Q750T3/4 | 23755 | 7-7 |
| ENL | 25475 | 9-6 |
| ENX | 41705 | 9-6 |
| ENX-5 | 19475 | 9-6 |
| EPT | 41729 | 9-6 |
| EIT | 38311 | 9-6 |
| EVV | 10099 | 9-6 |
| EWR | 11427 | 9-6 |
| EXL | 11478 | 9-6 |
| EXM | 11482 | 9-6 |
| EYB | 12696 | 9-6 |
| EZL | 15243 | 9-6 |
| F102D/827/4P | 21301 | 5-9 |
| F13BX/827/ECO | 97573 | 5-7 |
| F13BX/830/ECO | 97574 | 5-7 |
| F13BX/835/ECO | 97569 | 5-7 |
| F13BX/841/ECO | 97571 | 5-7 |
| F13BX/850/ECO | 97572 | 5-7 |
| F13BX/E/830/ECO | 97563 | 5-7 |
| F13DBX/827/ECO | 97590 | 5-8 |
| F13DBX/827/ECO4P | 97594 | 5-8 |
| F13DBX/830/ECO | 97591 | 5-8 |
| F13DBX/830/ECO4P | 97595 | 5-8 |
| F13DBX/835/ECO | 97592 | 5-8 |
| F13DBX/835/ECO4P | 97596 | 5-8 |
| F13DBX/841/ECO | 97593 | 5-8 |
| F13DBX/841/ECO4P | 97597 | 5-8 |
| F13DBX23/827/ECO | 97586 | 5-8 |
| F13DBX23/830/ECO | 97587 | 5-8 |
| F13DBX23/835/ECO | 97588 | 5-8 |
| F13DBX23/841/ECO | 97589 | 5-8 |
| F13T5/CW | 10086 | 4-9 |
| F13T5/CW/CB | 49333 | 4-23 |
| F13T5/CW/CB | 49333 | 4-9 |
| F13T5/CW/CVG | 41108 | 4-17 |
| F13T5/KB/RVL/CB | 67420 | 4-23 |
| F13T5/WW | 10089 | 4-9 |
| F13T5/WW/CB | 25426 | 4-23 |
| F13T5/WW/CB | 25426 | 4-9 |
| F13T5/XL/CW | 90064 | 4-9 |
| F13T8/CW | 10098 | 4-13 |
| F13T8/CW/CVG | 41109 | 4-19 |
| F13TBX/827/A/ECO | 97619 | 5-8 |
| F13TBX/830/A/ECO | 97620 | 5-8 |
| F13TBX/835/A/ECO | 97621 | 5-8 |
| F13TBX/841/A/ECO | 97622 | 5-8 |
| F13TBX827/4P/ECO | 97623 | 5-8 |
| F14T12/CW | 10116 | 4-16 |
| F14T12/CW 6PK | 10117 | 4-16 |
| F14T12/CW 6PK | 10117 | 4-23 |
| F14T12/KB 6PK | 22979 | 4-16 |
| F14T12/KB 6PK | 22979 | 4-23 |
| F14T5/830/WM/ECO | 71632 | 4-8 |
| F14T5/835/WM/ECO | 71633 | 4-8 |
| F14T5/841/WM/ECO | 71634 | 4-8 |
| F14T5/850/WM/ECO | 71635 | 4-8 |
| F14T5/865/WM/ECO | 71636 | 4-8 |

| Description | Order Code | Page Number |
|-----------------------|------------|-------------|
| F14T8/CW | 10104 | 4-13 |
| F14W/T5/830/ECO | 31590 | 4-8 |
| F14W/T5/830/ECO/CVG | 73194 | 4-17 |
| F14W/T5/835/ECO | 46671 | 4-8 |
| F14W/T5/835/ECO/CVG | 73195 | 4-17 |
| F14W/T5/841/ECO | 46673 | 4-8 |
| F14W/T5/850/ECO | 46674 | 4-8 |
| F14W/T5/865/ECO | 46676 | 4-8 |
| F15T12/CW 6PK | 10183 | 4-16 |
| F15T12/CW 6PK | 10183 | 4-23 |
| F15T12/CW/CVG | 41114 | 4-19 |
| F15T12/KB 6PK | 22745 | 4-16 |
| F15T12/KB 6PK | 22745 | 4-23 |
| F15T12/WW | 10185 | 4-16 |
| F15T8/AR/FS 6PK | 22910 | 4-21 |
| F15T8/AR/FS 6PK | 22910 | 4-24 |
| F15T8/BL 6PK | 35884 | 4-20 |
| F15T8/BL 6PK | 35884 | 4-23 |
| F15T8/BLB 6PK | 35885 | 4-20 |
| F15T8/BLB 6PK | 35885 | 4-23 |
| F15T8/CW | 10142 | 4-13 |
| F15T8/CW 6PK | 10143 | 4-13 |
| F15T8/CW 6PK | 10143 | 4-23 |
| F15T8/CW/CVG | 41110 | 4-19 |
| F15T8/D | 10134 | 4-13 |
| F15T8/KB 6PK | 21326 | 4-13 |
| F15T8/KB 6PK | 21326 | 4-23 |
| F15T8/KB/CVG/UPC | 46627 | 4-19 |
| F15T8/KB/CVG/UPC | 46627 | 4-24 |
| F15T8/KB/RVL 6PK | 79043 | 4-23 |
| F15T8/PL/AQ 6PK | 49892 | 4-21 |
| F15T8/PL/AQ 6PK | 49892 | 4-24 |
| F15T8/SP35 | 17911 | 4-13 |
| F15T8/SP35/CVG | 46216 | 4-19 |
| F15T8/SP41 | 19643 | 4-13 |
| F15T8/SPX30 | 19644 | 4-13 |
| F15T8/SPX35 | 19645 | 4-13 |
| F15T8/SPX35/CVG | 41111 | 4-19 |
| F15T8/SUN 6PK | 13968 | 4-13 |
| F15T8/SUN 6PK | 13968 | 4-23 |
| F15T8/WW | 10147 | 4-13 |
| F15T8/XL/SPX65 | 49489 | 4-12 |
| F162D/827/4P | 22169 | 5-9 |
| F162D/835/4P | 22177 | 5-9 |
| F17T8/BLB/6PK | 72759 | 4-20 |
| F17T8/GO/ECOCVG | 25779 | 4-21 |
| F17T8/SP30/ECO | 45741 | 4-9 |
| F17T8/SP35/ECO | 45743 | 4-9 |
| F17T8/SP41/ECO | 45748 | 4-9 |
| F17T8/SPX30/ECO | 45742 | 4-9 |
| F17T8/SPX35/ECO | 45747 | 4-9 |
| F17T8/SPX41/ECO | 45749 | 4-9 |
| F17T8/SXL/SPX35/ECO | | 4-10 |
| F17T8/SXL/SPX41/ECO | | 4-10 |
| F17T8/SXL/SPX50/ECO | | 4-10 |
| F17T8/XL/SP30/ECO | 15476 | 4-9 |
| F17T8/XL/SP35/ECO | 15479 | 4-9 |
| F17T8/XL/SP41/ECO | 15480 | 4-9 |
| F17T8/XL/SPX30/ECO | 15481 | 4-9 |
| F17T8/XL/SPX30/WM/ECO | 72132 | 4-10 |
| F17T8/XL/SPX35/ECO | 15483 | 4-10 |
| F17T8/XL/SPX35/WM/ECO | 72133 | 4-10 |
| F17T8/XL/SPX41/ECO | 15484 | 4-10 |
| F17T8/XL/SPX41/WM/ECO | 72134 | 4-10 |
| F17T8/XL/SPX50/ECO | 10415 | 4-10 |

| Description | Order Code | Page Number |
|-----------------------|------------|-------------|
| F17T8/XL/SPX50/WM/ECO | 72135 | 4-10 |
| F17T8/XL/SPX65/ECO | 16092 | 4-10 |
| F17T8SP35ECOCVG | 15974 | 4-18 |
| F17T8SP41ECOCVG | 15977 | 4-18 |
| F17T8SP35ECOCVG | 15975 | 4-18 |
| F17T8SPX41ECOCVG | 15976 | 4-18 |
| F17T8XLSPX50ECOCVG | 28885 | 4-18 |
| F18BX/SPX30 10PK | 16649 | 5-7 |
| F18BX/SPX35 10PK | 16053 | 5-7 |
| F18BX/SPX41 10PK | 16940 | 5-7 |
| F18BX/SPX65/RS | 12521 | 5-7 |
| F18BXSPX30RS10PK | 17174 | 5-7 |
| F18BXSPX35RS10PK | 17175 | 5-7 |
| F18DBX/827/ECO | 97577 | 5-8 |
| F18DBX/827/ECO4P | 97598 | 5-8 |
| F18DBX/830/ECO | 97578 | 5-8 |
| F18DBX/830/ECO4P | 97599 | 5-8 |
| F18DBX/835/ECO | 97579 | 5-8 |
| F18DBX/835/ECO4P | 97600 | 5-8 |
| F18DBX/841/ECO | 97580 | 5-8 |
| F18DBX/841/ECO4P | 97601 | 5-8 |
| F18T12/CW/HO | 10204 | 4-15 |
| F18T8/835/XLR | 93311 | 4-13 |
| F18T8/841/XLR | 93317 | 4-13 |
| F18TBX/827/A/ECO | 97624 | 5-8 |
| F18TBX/830/A/ECO | 97625 | 5-8 |
| F18TBX/835/A/ECO | 97626 | 5-8 |
| F18TBX/841/A/ECO | 97627 | 5-8 |
| F18TBX827/4P/ECO | 97628 | 5-8 |
| F20T12/AR/FR 6PK | 22908 | 4-24 |
| F20T12/B 6PK | 10231 | 4-21 |
| F20T12/B 6PK | 10231 | 4-23 |
| F20T12/BL 6PK | 10244 | 4-20 |
| F20T12/BL 6PK | 10244 | 4-23 |
| F20T12/BLB 6PK | 34747 | 4-20 |
| F20T12/BLB 6PK | 34747 | 4-23 |
| F20T12/C50/ECO | 80044 | 4-16 |
| F20T12/CW/ECO | 80045 | 4-16 |
| F20T12/CW/ECO 6PK | 80046 | 4-16 |
| F20T12/CW/ECO 6PK | 80046 | 4-23 |
| F20T12/D/ECO | 80047 | 4-16 |
| F20T12/D/ECO/UPC | 25575 | 4-16 |
| F20T12/D/ECO/UPC | 25575 | 4-23 |
| F20T12/G 6PK | 10233 | 4-21 |
| F20T12/G 6PK | 10233 | 4-23 |
| F20T12/KB/ECO | 21325 | 4-16 |
| F20T12/KB/ECO | 21325 | 4-23 |
| F20T12/PL/AQ/ECO | 49891 | 4-22 |
| F20T12/PL/AQ/ECO | 49891 | 4-24 |
| F20T12/SP35/ECO | 80048 | 4-16 |
| F20T12/SP41 | 15353 | 4-16 |
| F20T12/SPX35/ECO | 80049 | 4-16 |
| F20T12/SUN/ECO | 14419 | 4-16 |
| F20T12/SUN/ECO | 14419 | 4-23 |
| F20T12/WW/ECO | 80050 | 4-16 |
| F20T12/WW/ECO/UPC | 25577 | 4-16 |
| F20T12/WW/ECOUPC | 25577 | 4-23 |
| F20T12CWECOCVGUPC | 80984 | 4-24 |
| F20T12KB/ECO/RVL | 79042 | 4-23 |
| F212D/827/4P | 21303 | 5-9 |
| F212D/835/4P | 22178 | 5-9 |
| F21T5/830/WM/ECO | 71637 | 4-8 |
| F21T5/835/WM/ECO | 71638 | 4-8 |
| F21T5/841/WM/ECO | 71639 | 4-8 |
| F21T5/850/WM/ECO | 71640 | 4-8 |

Index (cont.)

| Description | Order Code | Page Number |
|-----------------------|------------|-------------|
| F21T5/865/WM/ECO | 71641 | 4-8 |
| F21W/T5/830/ECO | 46677 | 4-8 |
| F21W/T5/835/ECO | 46684 | 4-8 |
| F21W/T5/841/ECO | 46687 | 4-8 |
| F21W/T5/850/ECO | 46688 | 4-8 |
| F21W/T5/865/ECO | 46689 | 4-8 |
| F22T8/D/4 | 10257 | 4-20 |
| F24T12/CW | 10691 | 4-14 |
| F24T12/CW/HO | 10261 | 4-15 |
| F24T12/D/HO | 10275 | 4-15 |
| F24T8/CW/4 6PK | 17705 | 4-20 |
| F24W/T5/830/ECO | 46699 | 4-8 |
| F24W/T5/830/ECO/CVG | 71000 | 4-17 |
| F24W/T5/835/ECO | 46700 | 4-8 |
| F24W/T5/835/ECO/CVG | 70998 | 4-17 |
| F24W/T5/841/ECO | 46701 | 4-8 |
| F24W/T5/841/ECO/CVG | 70997 | 4-17 |
| F24W/T5/850/ECO | 46702 | 4-8 |
| F24W/T5/850/ECO/CVG | 70999 | 4-17 |
| F24W/T5/865/ECO | 46703 | 4-8 |
| F25T12/CW/33 6PK | 38201 | 4-20 |
| F25T12/CWRSM/ECO | 80065 | 4-13 |
| F25T12/D/28 | 10286 | 4-20 |
| F25T12/D/33 | 10299 | 4-20 |
| F25T12/SP30/RS/WM/ECO | 80080 | 4-13 |
| F25T12/SP35/RS/WM/ECO | 80081 | 4-13 |
| F25T12/WW/33 | 10293 | 4-20 |
| F25T12/WW/RS/WM/ECO | 80077 | 4-13 |
| F25T12/CW/28 6PK | 10282 | 4-20 |
| F25T8/GO/ECOCVG | 25783 | 4-21 |
| F25T8/SP30/ECO | 45750 | 4-10 |
| F25T8/SP35/ECO | 45754 | 4-10 |
| F25T8/SP41/ECO | 45756 | 4-10 |
| F25T8/SPX30/ECO | 45753 | 4-10 |
| F25T8/SPX35/ECO | 45755 | 4-10 |
| F25T8/SPX41/ECO | 45757 | 4-10 |
| F25T8/SXL/SPX35/ECO | | 4-10 |
| F25T8/SXL/SPX41/ECO | | 4-10 |
| F25T8/SXL/SPX50/ECO | | 4-10 |
| F25T8/XL/SP30/ECO | 15486 | 4-10 |
| F25T8/XL/SP35/ECO | 15487 | 4-10 |
| F25T8/XL/SP41/ECO | 15488 | 4-10 |
| F25T8/XL/SPX30/ECO | 15489 | 4-10 |
| F25T8/XL/SPX30/WM/ECO | 72136 | 4-11 |
| F25T8/XL/SPX35/ECO | 15490 | 4-10 |
| F25T8/XL/SPX35/WM/ECO | 72137 | 4-11 |
| F25T8/XL/SPX41/ECO | 15491 | 4-10 |
| F25T8/XL/SPX41/WM/ECO | 72138 | 4-11 |
| F25T8/XL/SPX50/ECO | 10416 | 4-10 |
| F25T8/XL/SPX50/WM/ECO | 72139 | 4-11 |
| F25T8/XL/SPX65/ECO | 16314 | 4-10 |
| F25T8SP30ECOCVG | 15978 | 4-18 |
| F25T8SP35ECOCVG | 15981 | 4-18 |
| F25T8SP41ECOCVG | 15984 | 4-18 |
| F25T8SPX30ECOCVG | 15989 | 4-18 |
| F25T8SPX35ECOCVG | 15990 | 4-18 |
| F25T8SPX41ECOCVG | 15991 | 4-18 |
| F25T8XLSXL50ECOCVG | 28887 | 4-18 |
| F26DBX/827/ECO | 97606 | 5-8 |
| F26DBX/827/ECO4P | 97610 | 5-8 |
| F26DBX/830/ECO | 97607 | 5-8 |
| F26DBX/830/ECO4P | 97611 | 5-8 |
| F26DBX/835/ECO | 97608 | 5-8 |
| F26DBX/835/ECO4P | 97612 | 5-8 |
| F26DBX/841/ECO | 97609 | 5-8 |

| Description | Order Code | Page Number |
|----------------------|------------|-------------|
| F26DBX/841/ECO4P | 97613 | 5-8 |
| F26DBX/E/827/ECO | 97602 | 5-8 |
| F26DBX/E/835/ECO | 97604 | 5-8 |
| F26T8/CW/4 | 10702 | 4-20 |
| F26T8/CW/4 6PK | 38199 | 4-20 |
| F26T8/SPX30/UECO | 62169 | 4-12 |
| F26T8/SPX35/UECO | 62170 | 4-12 |
| F26T8/SPX41/UECO | 62171 | 4-12 |
| F26T8X/827/A/ECO | 97614 | 5-8 |
| F26T8X/830/A/ECO | 97615 | 5-8 |
| F26T8X/835/A/ECO | 97616 | 5-8 |
| F26T8X/841/A/ECO | 97617 | 5-8 |
| F26T8X827/4P/ECO | 97618 | 5-8 |
| F27BSPX30RS10PK | 16944 | 5-7 |
| F27BSPX35RS10PK | 16948 | 5-7 |
| F27BSPX41RS10PK | 16951 | 5-7 |
| F282D/827/4P | 22172 | 5-9 |
| F282D/835/4P | 22180 | 5-9 |
| F28T5/830/WM/ECO | 71642 | 4-8 |
| F28T5/835/WM/ECO | 71643 | 4-8 |
| F28T5/841/WM/ECO | 71644 | 4-8 |
| F28T5/850/WM/ECO | 71645 | 4-9 |
| F28T5/865/WM/ECO | 71646 | 4-9 |
| F28T5/GO/CVG | 25768 | 4-21 |
| F28T8/CW/4 6PK | 17704 | 4-20 |
| F28T8/SPX30/UECO | 67394 | 4-12 |
| F28T8/SPX35/UECO | 67395 | 4-12 |
| F28T8/SPX41/UECO | 67396 | 4-12 |
| F28T8/SXL/SPX35/ECO | 93902 | 4-11 |
| F28T8/SXL/SPX41/ECO | 93903 | 4-11 |
| F28T8/SXL/SPX50/ECO | 93904 | 4-11 |
| F28T8/XL/SP35/ECO | 66471 | 4-11 |
| F28T8/XL/SP41/ECO | 66472 | 4-11 |
| F28T8/XL/SP50/ECO | 66473 | 4-11 |
| F28T8/XL/SPX30/ECO | 72863 | 4-11 |
| F28T8/XL/SPX35/ECO | 72864 | 4-11 |
| F28T8/XL/SPX41/ECO | 72866 | 4-11 |
| F28T8/XL/SPX50/ECO | 72867 | 4-11 |
| F28T8/XL/SPX65/ECO | 66346 | 4-11 |
| F28T8/XLSPX30ECO/CVG | 73292 | 4-18 |
| F28T8/XLSPX35ECO/CVG | 73293 | 4-18 |
| F28T8/XLSPX41ECO/CVG | 73294 | 4-18 |
| F28T8/XLSPX50ECO/CVG | 73295 | 4-18 |
| F28W/T5/830/ECO | 46704 | 4-8 |
| F28W/T5/830/ECO/CVG | 81546 | 4-17 |
| F28W/T5/835/ECO | 46705 | 4-8 |
| F28W/T5/835/ECO/CVG | 81547 | 4-17 |
| F28W/T5/841/ECO | 46706 | 4-8 |
| F28W/T5/841/ECO/CVG | 81548 | 4-17 |
| F28W/T5/850/ECO | 46707 | 4-8 |
| F28W/T5/850/ECO/CVG | 81549 | 4-17 |
| F28W/T5/865/ECO | 46708 | 4-8 |
| F28W/T5/865/ECO/CVG | 81550 | 4-17 |
| F28WTS/830/HL/ECO | 71652 | 4-9 |
| F28WTS/835/HL/ECO | 71653 | 4-9 |
| F28WTS/841/HL/ECO | 71654 | 4-9 |
| F28WTS/850/HL/ECO | 71655 | 4-9 |
| F28WTS/865/HL/ECO | 71656 | 4-9 |
| F29T8/SPX30/UECO | 62172 | 4-12 |
| F29T8/SPX35/UECO | 62173 | 4-12 |
| F29T8/SPX41/UECO | 62174 | 4-12 |
| F30T12/C50/RS/ECO | 80083 | 4-13 |
| F30T12/CW | 10355 | 4-20 |
| F30T12/CW/HO | 33707 | 4-15 |
| F30T12/CW/RS/ECO | 80084 | 4-13 |

| Description | Order Code | Page Number |
|-----------------------|------------|-------------|
| F30T12/CW/RS/ECO 6PK | 80085 | 4-13 |
| F30T12/D/RS/ECO | 80086 | 4-13 |
| F30T12/RS/KB/ECO | 77119 | 4-22 |
| F30T12/SP35/RS/ECO | 80087 | 4-13 |
| F30T12/SP41/RS/ECO | 80088 | 4-13 |
| F30T12/SPX30/RS/ECO | 80089 | 4-13 |
| F30T12/SPX35/RS/ECO | 80090 | 4-13 |
| F30T12/WW/RS/ECO | 80091 | 4-13 |
| F30T12CWRSECOCVG | 80486 | 4-19 |
| F30T8/CW 6PK | 10316 | 4-13 |
| F30T8/CW/4 | 10349 | 4-20 |
| F30T8/D | 10310 | 4-13 |
| F30T8/KB 6PK | 22747 | 4-13 |
| F30T8/KB 6PK | 22747 | 4-23 |
| F31T8/SPX30/UECO | 72117 | 4-12 |
| F31T8/SPX35/UECO | 72118 | 4-12 |
| F31T8/SPX41/UECO | 72119 | 4-12 |
| F32T8/25W/SPP35/ECO | 66467 | 4-11 |
| F32T8/25W/SPP41/ECO | 66468 | 4-11 |
| F32T8/25W/SPP50/ECO | 66469 | 4-11 |
| F32T8/25W/SPX30/ECO | 72128 | 4-11 |
| F32T8/25W/SPX35/ECO | 72129 | 4-11 |
| F32T8/25W/SPX41/ECO | 72130 | 4-11 |
| F32T8/25W/SPX50/ECO | 72131 | 4-11 |
| F32T8/25WSPX41ECOCVG | 72814 | 4-18 |
| F32T8/25WSPX50ECOCVG | 72815 | 4-18 |
| F32T8/AS/2PK-24 | 66830 | 4-22 |
| F32T8/AS/ECO/2P | 66835 | 4-22 |
| F32T8/B/65ECOCVG2 | 94847 | 4-21 |
| F32T8/C/50/ECO | 66343 | 4-10 |
| F32T8/C75/ECO | 66344 | 4-10 |
| F32T8/CL/2PK-24 | 66832 | 4-22 |
| F32T8/G/89ECOCVG2 | 94849 | 4-21 |
| F32T8/GB/2PK-24 | 66833 | 4-22 |
| F32T8/GB/ECO/2P | 66828 | 4-22 |
| F32T8/GB/ECO/UPEC | 66826 | 4-22 |
| F32T8/GO/ECOCVG | 25784 | 4-21 |
| F32T8/KBP/2PK-24 | 66834 | 4-22 |
| F32T8/KBP/ECO/2P | 66829 | 4-22 |
| F32T8/R/24ECOCVG2 | 94850 | 4-21 |
| F32T8/SP30/UECO | 28145 | 4-12 |
| F32T8/SP35/UECO | 28149 | 4-12 |
| F32T8/SP41/UECO | 28152 | 4-12 |
| F32T8/SPP30/ECO | 66347 | 4-10 |
| F32T8/SPP35/ECO | 66348 | 4-10 |
| F32T8/SPP41/ECO | 66349 | 4-10 |
| F32T8/SPP50/ECO | 66350 | 4-10 |
| F32T8/SPP65/ECO | 66351 | 4-10 |
| F32T8/SPX30/ECO2 | 68850 | 4-10 |
| F32T8/SPX30/UE/2 | 68920 | 4-12 |
| F32T8/SPX30/UE/ECO | 72111 | 4-12 |
| F32T8/SPX30/UE/WM/ECO | 72114 | 4-12 |
| F32T8/SPX35/ECO2 | 68851 | 4-10 |
| F32T8/SPX35/UE/2 | 68921 | 4-12 |
| F32T8/SPX35/UE/ECO | 72112 | 4-12 |
| F32T8/SPX35/UE/WM/ECO | 72115 | 4-12 |
| F32T8/SPX41/ECO2 | 68852 | 4-10 |
| F32T8/SPX41/UE/2 | 68922 | 4-12 |
| F32T8/SPX41/UE/ECO | 72113 | 4-12 |
| F32T8/SPX41/UE/WM/ECO | 72116 | 4-12 |
| F32T8/SPX50/ECO2 | 68853 | 4-10 |
| F32T8/SPX50/UE/2 | 68923 | 4-12 |
| F32T8/SPX65/ECO2 | 66342 | 4-10 |
| F32T8/SXL/SPX30/ECO | 73093 | 4-10 |
| F32T8/SXL/SPX35/ECO | 73094 | 4-10 |

| Description | Order Code | Page Number |
|------------------------|------------|-------------|
| F32T8/SXL/SPX41/ECO | 73095 | 4-10 |
| F32T8/SXL/SPX50/ECO | 73096 | 4-10 |
| F32T8/UT/2P-24 | 66836 | 4-22 |
| F32T8/UT/ECO/2P | 66831 | 4-22 |
| F32T8/UT/ECO/UPC | 66827 | 4-22 |
| F32T8/WS/ECO/2P | 66837 | 4-22 |
| F32T8/XL/SPX30/ECO2 | 68854 | 4-10 |
| F32T8/XL/SPX30/HL/ECO | 10327 | 4-11 |
| F32T8/XL/SPX35/ECO2 | 68855 | 4-10 |
| F32T8/XL/SPX35/HL/ECO | 10326 | 4-11 |
| F32T8/XL/SPX41/ECO2 | 68856 | 4-10 |
| F32T8/XL/SPX41/HL/ECO | 10322 | 4-11 |
| F32T8/XL/SPX50/ECO2 | 68857 | 4-10 |
| F32T8/XL/SPX50/HL/ECO | 42556 | 4-11 |
| F32T8/XL/SPX65/ECO2 | 68858 | 4-10 |
| F32T825W/SXL/SPX35/ECO | 93905 | 4-11 |
| F32T825W/SXL/SPX41/ECO | 93906 | 4-11 |
| F32T825W/SXL/SPX50/ECO | 93907 | 4-11 |
| F32T85PP30ECO/COV | 94838 | 4-18 |
| F32T85PP35ECO/COV | 94839 | 4-18 |
| F32T85PP41ECO/COV | 94861 | 4-18 |
| F32T85PP50ECO/COV | 94842 | 4-18 |
| F32T85SPX30ECO/COV | 41125 | 4-18 |
| F32T85SPX35ECO/COV | 41126 | 4-18 |
| F32T85SPX41ECO/COV | 41127 | 4-18 |
| F32T85SPX50ECO/COV | 15971 | 4-18 |
| F32T85SPX65ECO/COV | 94843 | 4-18 |
| F32T8XSL/SPX30ECO/COV | 15972 | 4-18 |
| F32T8XSL/SPX35ECO/COV | 15973 | 4-18 |
| F32T8XSL/SPX35H/COV | 00268 | 4-18 |
| F32T8XSL/SPX41ECO/COV | 18369 | 4-18 |
| F32T8XSL/SPX41H/COV | 00269 | 4-18 |
| F32T8XSL/SPX50ECO/COV | 23746 | 4-18 |
| F32T8XSL/SPX50H/COV | 80497 | 4-18 |
| F32TBX/827/A/ECO | 97629 | 5-9 |
| F32TBX/830/A/ECO | 97630 | 5-9 |
| F32TBX/835/A/ECO | 97631 | 5-9 |
| F32TBX/841/A/ECO | 97632 | 5-9 |
| F32TBX/850/A/ECO | 65337 | 5-9 |
| F34C50/RS/WM/ECO | 80092 | 4-13 |
| F34CW/C/WM/ECO | 66649 | 4-13 |
| F34CX41/WM/ECO | 66474 | 4-13 |
| F34CX41/WM/ECO/COV | 26044 | 4-24 |
| F34DX/RS/WM/ECO | 80093 | 4-13 |
| F35/CW/C/U3/WM | 68050 | 4-14 |
| F35/CW/C/U6/WM | 68051 | 4-14 |
| F35/CX41/U3/WM | 66854 | 4-14 |
| F35/CX41/U6/WM | 66855 | 4-14 |
| F35/CX41/U6/WM/UPC | 66851 | 4-14 |
| F35/CX41/U6/WM/UPC | 66851 | 4-22 |
| F35T5/830/WM/ECO | 71647 | 4-9 |
| F35T5/835/WM/ECO | 71648 | 4-9 |
| F35T5/841/WM/ECO | 71649 | 4-9 |
| F35T5/850/WM/ECO | 71650 | 4-9 |
| F35T5/865/WM/ECO | 71651 | 4-9 |
| F35W/T5/830/ECO | 46724 | 4-8 |
| F35W/T5/835/ECO | 46727 | 4-8 |
| F35W/T5/841/ECO | 46735 | 4-8 |
| F35W/T5/850/ECO | 46742 | 4-8 |
| F35W/T5/865/ECO | 46743 | 4-8 |
| F36T12/CW | 10709 | 4-14 |
| F36T12/CW/HO | 10374 | 4-15 |
| F36T12/D/HO | 10380 | 4-15 |
| F36T12/SGN/HO | 10388 | 4-15 |
| F36WT8/835/XLR | 19991 | 4-13 |

| Description | Order Code | Page Number |
|---------------------|------------|-------------|
| F36WT8/841/XLR | 16856 | 4-13 |
| F382D/827/4P | 21305 | 5-9 |
| F382D/835/4P | 22181 | 5-9 |
| F39BXPX30RS10PK | 16538 | 5-7 |
| F39BXPX35RS10PK | 15867 | 5-7 |
| F39BXPX41RS10PK | 16952 | 5-7 |
| F39W/T5/830/ECO | 46744 | 4-8 |
| F39W/T5/830/ECO/COV | 70995 | 4-17 |
| F39W/T5/835/ECO | 46745 | 4-8 |
| F39W/T5/835/ECO/COV | 70994 | 4-17 |
| F39W/T5/841/ECO | 46746 | 4-8 |
| F39W/T5/841/ECO/COV | 70993 | 4-17 |
| F39W/T5/850/ECO | 46747 | 4-8 |
| F39W/T5/865/ECO | 46748 | 4-8 |
| F39W/T5/865/ECO/COV | 70990 | 4-17 |
| F40/25B8X30/IS/WM | 75399 | 5-7 |
| F40/25B8X35/IS/WM | 75400 | 5-7 |
| F40/25B8X40/IS/WM | 75401 | 5-7 |
| F40/25B8X50/IS/WM | 75402 | 5-7 |
| F40/30BX/SPX35 | 16648 | 5-7 |
| F40/30BX/SPX41 | 16954 | 5-7 |
| F40/30BX/SPX50RS | 10490 | 5-7 |
| F40/30BX/SPX30-36 | 20444 | 5-7 |
| F40/30BX/SPX35-36 | 20446 | 5-7 |
| F40/30BX/SPX41-36 | 20447 | 5-7 |
| F40/C50/ECO/COV | 80496 | 4-19 |
| F40/CL/ECO/2P | 66653 | 4-22 |
| F40/GB/ECO/2P | 66652 | 4-22 |
| F40/GO/COV | 25850 | 4-21 |
| F40/KBP/ECO/2P | 66655 | 4-22 |
| F40/LR/ECO/2P | 66654 | 4-22 |
| F40/SUN/ECO/6PK | 12224 | 4-22 |
| F40/UT/ECO/2P | 66651 | 4-22 |
| F4030BX/SPX30 10P | 16953 | 5-7 |
| F40B 6PK | 10514 | 4-21 |
| F40BL 6PK | 10526 | 4-20 |
| F40BL 6PK | 10526 | 4-23 |
| F40BL/U/3 | 40537 | 4-20 |
| F40BLB 6PK | 10531 | 4-20 |
| F40BLB 6PK | 10531 | 4-23 |
| F40C50/ECO | 80096 | 4-14 |
| F40C50/ECO/UPC | 25399 | 4-14 |
| F40C50/ECO/UPC | 25399 | 4-22 |
| F40C75 30PK | 13795 | 4-14 |
| F40CW/EX 30PK | 14656 | 4-22 |
| F40CW/U/6/EX | 14496 | 4-22 |
| F40D/EX | 14488 | 4-22 |
| F40D/U/6/EX | 14498 | 4-22 |
| F40DX/ECO | 80097 | 4-14 |
| F40DX/ECO/COV | 80994 | 4-19 |
| F40G 6PK | 10517 | 4-21 |
| F40N/ECO | 80098 | 4-14 |
| F40PL/AQ/ECO | 49893 | 4-22 |
| F40PL/AQ/ECO | 49893 | 4-24 |
| F40SUN/ECO 6PK | 12224 | 4-14 |
| F40T17/CW/IS | 10575 | 4-17 |
| F40T8/SPX30 | 22660 | 4-12 |
| F40T8/SPX35 | 22661 | 4-12 |
| F40T8/SPX35/COV | 41131 | 4-18 |
| F40T8/SPX41 | 22662 | 4-12 |
| F40T8/SPX41/COV | 47351 | 4-18 |
| F40UT/ECO/UPC | 66650 | 4-14 |
| F40UT/ECO/UPC | 66650 | 4-22 |
| F42T12/CW | 10735 | 4-14 |
| F42T12/CW/HO | 10559 | 4-15 |

| Description | Order Code | Page Number |
|----------------------|------------|-------------|
| F42T12/D/HO | 10560 | 4-15 |
| F42T12/SGN/HO | 10562 | 4-15 |
| F42T6/CW | 10720 | 4-16 |
| F42T6/SP35 | 12221 | 4-16 |
| F42T6/WW | 10721 | 4-16 |
| F42TBX/827/A/ECO | 97633 | 5-9 |
| F42TBX/830/A/ECO | 97634 | 5-9 |
| F42TBX/835/A/ECO | 97635 | 5-9 |
| F42TBX/841/A/ECO | 97636 | 5-9 |
| F42TBX/850/A/ECO | 65338 | 5-9 |
| F48T10/CW | 10742 | 4-20 |
| F48T12/CW | 10748 | 4-14 |
| F48T12/CW/1500 | 10751 | 4-16 |
| F48T12/CW/1500/0 | 34206 | 4-20 |
| F48T12/CW/COV | 40127 | 4-19 |
| F48T12/CW/HO | 10773 | 4-15 |
| F48T12/CW/HO/COV | 40129 | 4-19 |
| F48T12/CW/HO/UPC | 27313 | 4-15 |
| F48T12/CW/HO/UPC | 27313 | 4-23 |
| F48T12/CW/UPC 6PK | 20461 | 4-14 |
| F48T12/CW/WM | 44967 | 4-14 |
| F48T12/D/HO | 10778 | 4-15 |
| F48T12/LW/HO/WM | 11179 | 4-15 |
| F48T12/SGN/HO | 10573 | 4-15 |
| F48T12/SP30/HO | 15359 | 4-15 |
| F48T12/SP35 | 15262 | 4-14 |
| F48T12/SP35/HO | 15360 | 4-15 |
| F48T12/SP35/HO/WM | 15342 | 4-15 |
| F48T12/SP35/WM | 14319 | 4-14 |
| F48T12/SP41/HO | 15361 | 4-15 |
| F48T12/SP41/WM | 13048 | 4-14 |
| F48T12/SPX30 | 15088 | 4-14 |
| F48T12/SPX35 | 15116 | 4-14 |
| F48T12/SPX35/COV | 41144 | 4-19 |
| F48T12/SPX35/HO | 15115 | 4-15 |
| F48T12/CW/UPC 6PK | 20461 | 4-22 |
| F48T12/CW/VHO/CT | 46195 | 4-20 |
| F4T5/BLB | 10019 | 4-20 |
| F4T5/CW | 10004 | 4-9 |
| F4T5/CW/CB | 15983 | 4-23 |
| F4T5/CW/CB | 15983 | 4-9 |
| F4T5/WW/CB | 29089 | 4-9 |
| F50BXPX30RS10PK | 20898 | 5-7 |
| F50BXPX35RS10PK | 20899 | 5-7 |
| F50BXPX41RS10PK | 20900 | 5-7 |
| F54T5/47W/830/ECO | 62020 | 4-9 |
| F54T5/47W/835/ECO | 62021 | 4-9 |
| F54T5/47W/841/ECO | 62022 | 4-9 |
| F54T5/47W/841/COV | 65106 | 4-17 |
| F54T5/47W/850/ECO | 62023 | 4-9 |
| F54T5/47W/850/COV | 65107 | 4-17 |
| F54T5/47W/865/ECO | 62024 | 4-9 |
| F54T5/830/HO/ECO/COV | 48433 | 4-17 |
| F54T5/830/WM/ECO | 71627 | 4-9 |
| F54T5/835/HO/ECO/COV | 48436 | 4-17 |
| F54T5/835/WM/ECO | 71628 | 4-9 |
| F54T5/835/WM/ECO/COV | 72986 | 4-17 |
| F54T5/841/CT | 81522 | 4-19 |
| F54T5/841/HO/ECO/COV | 48458 | 4-17 |
| F54T5/841/WM/ECO | 71629 | 4-9 |
| F54T5/841/WM/ECO/COV | 72987 | 4-17 |
| F54T5/850/HO/ECO/COV | 80311 | 4-17 |
| F54T5/850/WM/ECO | 71630 | 4-9 |
| F54T5/850/WM/ECO/COV | 72988 | 4-18 |
| F54T5/865/HO/ECO/COV | 48469 | 4-17 |

Index (cont.)

| Description | Order Code | Page Number |
|--------------------|------------|-------------|
| F54T5/865/WM/ECO | 71631 | 4-9 |
| F54T5/XL/830/ECO | 68836 | 4-8 |
| F54T5/XL/835/ECO | 68837 | 4-8 |
| F54T5/XL/841/ECO | 68838 | 4-8 |
| F54T5/XL/850/ECO | 68839 | 4-8 |
| F54T5/XL/865/ECO | 68840 | 4-8 |
| F54W/T5/830/ECO | 46759 | 4-8 |
| F54W/T5/835/ECO | 46760 | 4-8 |
| F54W/T5/841/ECO | 46761 | 4-8 |
| F54W/T5/850/ECO | 46762 | 4-8 |
| F54W/T5/865/ECO | 46763 | 4-8 |
| F552D/830A/T4P/B | 36358 | 5-9 |
| F55BX/830 | 31951 | 5-7 |
| F55BX/835 | 31952 | 5-7 |
| F55BX/840 | 31953 | 5-7 |
| F55BX/CINPLUS/32 | 41903 | 5-14 |
| F55BX/CINPLUS/32 | 41903 | 7-10 |
| F55BX/CINPLUS/55 | 41911 | 5-14 |
| F55BX/CINPLUS/56 | 41911 | 7-10 |
| F55BX/STUDIOBIAX32 | 41869 | 7-10 |
| F55BX/STUDIOBIAX56 | 41873 | 7-10 |
| F55BX/STUDIOBX56 | 41873 | 5-14 |
| F57QB/841/A/ECO | 48864 | 5-9 |
| F57QB/827A4P/EOL | 48861 | 5-9 |
| F57QB/835A4P/EOL | 48863 | 5-9 |
| F57QB/850A4P/EOL | 93404 | 5-9 |
| F58T8/835/CT | 16148 | 4-19 |
| F58T8/835/PLY/XLR | 40120 | 4-13 |
| F58T8/841/CT | 23752 | 4-19 |
| F58T8/841/PLY/XLR | 40081 | 4-13 |
| F58X/827/ECO | 97551 | 5-7 |
| F58X/841/ECO | 97553 | 5-7 |
| F60T10/CW | 39157 | 4-20 |
| F60T10/CW 6PK | 13002 | 4-20 |
| F60T10/CW-CT | 46197 | 4-20 |
| F60T10/SP30 | 17135 | 4-20 |
| F60T12/CW 15PK | 23073 | 4-14 |
| F60T12/CW/HO 15PK | 23075 | 4-15 |
| F60T12/CW/HO/CVG | 41148 | 4-19 |
| F60T12/D 15PK | 23076 | 4-14 |
| F60T12/D/HO 15PK | 23077 | 4-15 |
| F60T12/SGN/HO 15PK | 23081 | 4-15 |
| F60T12CW/CVG | 41147 | 4-19 |
| F64T12/CW/HO 15PK | 23083 | 4-15 |
| F64T12/CW15PK | 23082 | 4-14 |
| F64T12/D 15PK | 23085 | 4-14 |
| F64T12/D/HO 15PK | 23087 | 4-15 |
| F64T12/SGN/HO 15PK | 23089 | 4-15 |
| F64T6/CW | 10805 | 4-16 |
| F64T6/WW | 10807 | 4-16 |
| F6T5/CW | 10032 | 4-9 |
| F6T5/CW/CB | 15986 | 4-23 |
| F6T5/CW/CB | 15986 | 4-9 |
| F6T5/D | 10028 | 4-9 |
| F6T5/XL/CW | 90062 | 4-9 |
| F70QB/841/A/ECO | 48868 | 5-9 |
| F70QB/827A4P/EOL | 48865 | 5-9 |
| F70QB/830A4P/EOL | 48866 | 5-9 |
| F70QB/835A4P/EOL | 48867 | 5-9 |
| F70QB/850A4P/EOL | 93406 | 5-9 |
| F70T8/835/CT | 16149 | 4-19 |
| F70T8/835/PLY/XLR | 62572 | 4-13 |
| F70T8/840/PLY/XLR | 62573 | 4-13 |
| F70T8/841/CT | 23754 | 4-19 |
| F72T10/CW 15PK | 13776 | 4-20 |

| Description | Order Code | Page Number |
|------------------------|------------|-------------|
| F72T10/CW-CT | 46198 | 4-20 |
| F72T12/CW 15PK | 13743 | 4-15 |
| F72T12/CW/1500 15PK | 13760 | 4-16 |
| F72T12/CW/HO 15PK | 13697 | 4-16 |
| F72T12/CW/HO-CT | 46199 | 4-20 |
| F72T12/CW/UPC 10PK | 12525 | 4-15 |
| F72T12/D 15PK | 13748 | 4-15 |
| F72T12/D/HO 15PK | 13699 | 4-16 |
| F72T12/GO/CVG | 25854 | 4-21 |
| F72T12/N/HO | 12527 | 4-16 |
| F72T12/SGN/HO 15PK | 13701 | 4-16 |
| F72T12/SP30/HO 15PK | 15343 | 4-16 |
| F72T12/SP35 15PK | 15286 | 4-15 |
| F72T12/SP35/HO 15PK | 15347 | 4-16 |
| F72T12/SP41 | 15097 | 4-15 |
| F72T12/SP41/HO 15PK | 15348 | 4-16 |
| F72T12/SPX30 15PK | 15117 | 4-15 |
| F72T12/SPX30/HO 15PK | 15137 | 4-16 |
| F72T12/SPX35 15PK | 15098 | 4-15 |
| F72T12/SPX35/CVG | 41153 | 4-19 |
| F72T12/SPX35/HO 15PK | 15351 | 4-16 |
| F72T12/SP41/HO 15PK | 15348 | 4-16 |
| F72T12/SPX30 15PK | 15117 | 4-15 |
| F72T12/SPX30/HO 15PK | 15137 | 4-16 |
| F72T12/SPX35 15PK | 15098 | 4-15 |
| F72T12/SPX35/CVG | 41153 | 4-19 |
| F72T12/SPX35/HO 15PK | 15351 | 4-16 |
| F72T12/WW/HO 15PK | 13702 | 4-16 |
| F72T12/CW/HO/CVG | 40811 | 4-19 |
| F72T12CW/VHO/CT | 46200 | 4-20 |
| F72T12CW1500/0 | 13762 | 4-20 |
| F72T12SP35HO/CVG | 46207 | 4-19 |
| F72T12SPX30HOCVG | 41152 | 4-19 |
| F72T12SPX35HOCVG | 41154 | 4-19 |
| F72T8/CW | 10829 | 4-12 |
| F72T8/WW 6PK | 10835 | 4-12 |
| F78X/827/ECO | 97554 | 5-7 |
| F78X/835/ECO | 97556 | 5-7 |
| F78X/841/ECO | 97557 | 5-7 |
| F80W/T5/830/ECO | 46802 | 4-8 |
| F80W/T5/835/ECO | 46803 | 4-8 |
| F80W/T5/841/ECO | 46804 | 4-8 |
| F80W/T5/850/ECO | 46805 | 4-8 |
| F80W/T5/865/ECO | 46806 | 4-8 |
| F84T12/CW 15PK | 13764 | 4-15 |
| F84T12/CW/HO 15PK | 13766 | 4-16 |
| F84T12/D/HO 15PK | 13767 | 4-16 |
| F84T12/SGN/HO 15PK | 13768 | 4-16 |
| F8T5/BLB | 10077 | 4-20 |
| F8T5/CW | 10059 | 4-9 |
| F8T5/CW/CB | 15987 | 4-23 |
| F8T5/CW/CB | 15987 | 4-9 |
| F8T5/CW/CVG | 41107 | 4-17 |
| F8T5/D | 10055 | 4-9 |
| F8T5/KB/RVL/CB | 67419 | 4-23 |
| F8T5/WW | 10064 | 4-9 |
| F8T5/WW/CB | 25425 | 4-23 |
| F8T5/WW/CB | 25425 | 4-9 |
| F8T5/XL/CW | 90063 | 4-9 |
| F90T17/CW | 10643 | 4-17 |
| F90T17/CW/WM | 43443 | 4-17 |
| F96PG17/CW | 11009 | 4-17 |
| F96PG17/CW/WM | 42666 | 4-17 |
| F96PG17/D | 11018 | 4-17 |
| F96T12/C50 | 13752 | 4-14 |
| F96T12/C50/HO 15PK | 13707 | 4-16 |
| F96T12/C50/WM 15PK | 13756 | 4-14 |
| F96T12/CW/1500 15PK | 13781 | 4-16 |
| F96T12/CW/1500/0 | 13788 | 4-20 |
| F96T12/CW/1500/WM 15PK | 13789 | 4-16 |
| F96T12/CW/C/WM | 68052 | 4-14 |

| Description | Order Code | Page Number |
|--------------------------|------------|-------------|
| F96T12/CW/HO/CT | 11918 | 4-20 |
| F96T12/D/1500 15PK | 13783 | 4-16 |
| F96T12/D/EX 15PK | 12543 | 4-22 |
| F96T12/D/HO/CT | 11919 | 4-20 |
| F96T12/DX | 14652 | 4-14 |
| F96T12/DX/HO | 14653 | 4-16 |
| F96T12/DX/HO/CVG | 46430 | 4-19 |
| F96T12/GO/CVG | 25852 | 4-21 |
| F96T12/GO/HO/CVG | 25853 | 4-21 |
| F96T12/HL30/HO/WM | 66861 | 4-16 |
| F96T12/HL41/HO/WM | 66862 | 4-16 |
| F96T12/LW/HO/WM | 13720 | 4-16 |
| F96T12/N 15PK | 13725 | 4-14 |
| F96T12/SP41/WM/ECO | 27235 | 4-14 |
| F96T12/XL/HL35/WM/UPC | 66856 | 4-14 |
| F96T12/XL/HL35/WM/UPC | 66856 | 4-22 |
| F96T12/XL/HL41/HO/WM/UPC | 66852 | 4-14 |
| F96T12/XL/HL41/WM/UPC | 66852 | 4-22 |
| F96T12CW/EX 15PK | 12541 | 4-22 |
| F96T12CW/HO/EX | 12540 | 4-22 |
| F96T12CW/VHO-CT | 46202 | 4-20 |
| F96T12D/HO/EX15 | 12542 | 4-22 |
| F96T12HL41HOCV | 26039 | 4-19 |
| F96T12XL/HL35/WM | 66857 | 4-14 |
| F96T12XL/HL41/WM | 66858 | 4-14 |
| F96T12XL/HL50/WM | 66859 | 4-14 |
| F96T12XL/HL65/WM | 66860 | 4-14 |
| F96T12XLHL41WMCV | 26038 | 4-19 |
| F96T8/49W/SP35 | 66894 | 4-11 |
| F96T8/49W/SP41 | 66895 | 4-11 |
| F96T8/49W/SPX30 | 79401 | 4-11 |
| F96T8/49W/SPX35 | 79402 | 4-11 |
| F96T8/49W/SPX41 | 79403 | 4-11 |
| F96T8/54W/SP35 | 66891 | 4-11 |
| F96T8/54W/SP41 | 66892 | 4-11 |
| F96T8/CW | 10912 | 4-12 |
| F96T8/SP30/HO | 12536 | 4-12 |
| F96T8/SP35/HO | 12537 | 4-12 |
| F96T8/SP35HO/CVG | 40107 | 4-19 |
| F96T8/SP41/HO | 12538 | 4-12 |
| F96T8/SP41HO/CVG | 40108 | 4-19 |
| F96T8/SPX35/HO | 12533 | 4-12 |
| F96T8/SPX41/HO | 12534 | 4-12 |
| F96T8/SPX50/HO | 12535 | 4-12 |
| F96T8/SPX50HO/CVG | 81563 | 4-19 |
| F96T8/SPX65/HO | 66897 | 4-12 |
| F96T8/XL/SP35/WMP | 47076 | 4-11 |
| F96T8/XL/SP41/WMP | 47103 | 4-11 |
| F96T8/XL/SP50/WMP | 66889 | 4-11 |
| F96T8/XL/SP65/WMP | 66890 | 4-11 |
| F96T8/XL/SP35 | 67969 | 4-11 |
| F96T8/XL/SP41 | 67970 | 4-11 |
| F96T8/XL/SP50 | 67971 | 4-11 |
| F96T8/XL/SPX30/2 | 68868 | 4-11 |
| F96T8/XL/SPX35/2 | 68869 | 4-11 |
| F96T8/XL/SPX41/2 | 68870 | 4-11 |
| F96T8/XL/SPX50/2 | 68871 | 4-11 |
| F96T8XL/SP35/CVG | 94859 | 4-18 |
| F96T8XL/SP41/CVG | 94860 | 4-18 |
| F96T8XL/SPX30/CVG | 94856 | 4-18 |
| F96T8XL/SPX30CVG | 40099 | 4-18 |
| F96T8XL/SPX35/CVG | 40105 | 4-18 |
| F96T8XL/SPX41/CVG | 40106 | 4-18 |
| F96T8XL/SPX50/CVG | 48205 | 4-18 |
| F98X/827/ECO | 97558 | 5-7 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| F9BX/835/ECO | 97560 | 5-7 |
| F9BX/841/ECO | 97561 | 5-7 |
| F9DBX23/827/ECO | 97576 | 5-8 |
| F9DBX23/841/ECO | 97575 | 5-8 |
| FAD-Q650T4/4CL | 30325 | 7-7 |
| FAM6Q20MR11NF/CD | 25197 | 2-10 |
| FAM6Q20MR16FLCCG | 21455 | 2-9 |
| FAM6Q20MR16NSCCG | 21456 | 2-9 |
| FAM6Q50MR16FLCCG | 21457 | 2-9 |
| FAM6Q50MR16NSCCG | 21458 | 2-9 |
| FAY-Q650PAR36/3D | 41668 | 7-8 |
| FBE-Q650PAR36/5D | 41669 | 7-8 |
| FBO-Q650PAR36/5 | 41671 | 7-8 |
| FBY-Q1000T5/4 | 30374 | 7-7 |
| FC12T9/CW | 33890 | 4-17 |
| FC12T9/CW | 33890 | 4-23 |
| FC12T9/D | 11039 | 4-17 |
| FC12T9/D | 11039 | 4-23 |
| FC12T9/KB | 11085 | 4-17 |
| FC12T9/KB | 11085 | 4-23 |
| FC16T9/CW | 33893 | 4-17 |
| FC16T9/CW | 33893 | 4-23 |
| FC16T9/D | 11052 | 4-17 |
| FC16T9/D | 11052 | 4-23 |
| FC6T9/CW | 42732 | 4-17 |
| FC6T9/CW | 42732 | 4-23 |
| FC8T9/CW | 33774 | 4-17 |
| FC8T9/CW | 33774 | 4-23 |
| FC8T9/D | 11026 | 4-17 |
| FC8T9/D | 11026 | 4-23 |
| FC8T9/KB | 11084 | 4-17 |
| FC8T9/KB | 11084 | 4-23 |
| FCM-Q1000T3/4CL | 23797 | 7-7 |
| FCR | 14876 | 9-6 |
| FCS | 13598 | 9-6 |
| FCW-Q650PAR36/6 | 41672 | 7-8 |
| FCX-Q650PAR36/7 | 41673 | 7-8 |
| FDB-Q1500T4/4CL | 23841 | 7-7 |
| FDG-Q500T3/4CL | 23735 | 7-7 |
| FDM-Q500T3/4 | 23734 | 7-7 |
| FDT | 35321 | 9-6 |
| FDV | 36878 | 9-6 |
| FEL-Q1000/4CL | 88625 | 7-7 |
| FER-Q1000T6/4CL | 33760 | 7-7 |
| FEY-Q2000T8/4CL | 88629 | 7-7 |
| FFN-Q1000PAR64/1 | 13233 | 7-8 |
| FFP-Q1000PAR64/2 | 13229 | 7-8 |
| FFR-Q1000PAR64/5 | 13228 | 7-8 |
| FFS-Q1000PAR64/6 | 13227 | 7-8 |
| FFT-Q1000T3/1CL | 33280 | 7-7 |
| FHM-Q1000T3/4 | 23792 | 7-7 |
| FLE10HT2/2/827 | 86241 | 5-11 |
| FLE10HT2/2/SW/CD | 85382 | 5-11 |
| FLE10HT2/2/SW2PK | 85389 | 5-11 |
| FLE10HT2/6H/CWCD | 72468 | 5-11 |
| FLE10HT2/6H/D/CD | 72471 | 5-11 |
| FLE10HT2D/XL/BX3 | 68518 | 5-11 |
| FLE10HT2SWXL/BX3 | 68504 | 5-11 |
| FLE10HT2SWXL/BX6 | 68510 | 5-11 |
| FLE10HT3/2/RVL/CD | 75405 | 5-10 |
| FLE10HT3/2/SW/CD | 49906 | 5-11 |
| FLE9HT3/2/SW/CD | | |
| FLE10HT3/2/XL | 80936 | 5-11 |
| FLE10HT3/2GU24CD | 76135 | 5-12 |
| FLE10HT3/2RVLBX2 | 67451 | 5-10 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| FLE10HT3/2RVLBX2 | 84249 | 5-10 |
| FLE10HT3/2RVLCD2 | 75409 | 5-10 |
| FLE10HT32SWCD2PK | 49907 | 5-11 |
| FLE9HT32SWCD2PK | | |
| FLE11/2/A17/D/3P | 78940 | 5-13 |
| FLE11/2/A17/D/CD | 78939 | 5-13 |
| FLE11/2/A17CB/3P | 78938 | 5-13 |
| FLE11/2/A17CB/CD | 78937 | 5-13 |
| FLE11/2/A17XL/CD | 47486 | 5-13 |
| FLE11/2/A17XL2PK | 49687 | 5-13 |
| FLE11/2/A19XL | 89622 | 5-13 |
| FLE11/2/G25/D/3P | 78947 | 5-14 |
| FLE11/2/G25/D/CD | 78946 | 5-14 |
| FLE11/2/G25XL | 89629 | 5-14 |
| FLE11/2/G25XL/CD | 47484 | 5-14 |
| FLE11/2/G25XL2PK | 89096 | 5-14 |
| FLE11/2/G25XL3PK | 85392 | 5-14 |
| FLE11/2/R20/D/CD | 78948 | 5-12 |
| FLE11/2/R20D/BX | 85279 | 5-12 |
| FLE11/2/R20SW/BX | 85278 | 5-12 |
| FLE11/2/R20XL/2P | 76131 | 5-12 |
| FLE11/2/R20XL/CD | 47477 | 5-12 |
| FLE11/2/R20XL827 | 80892 | 5-12 |
| FLE11/2A17CBD/CD | 78941 | 5-13 |
| FLE11/2R20XLSWCD | 24691 | 5-12 |
| FLE11/2TC14BUGCD | 49895 | 5-13 |
| FLE14/2TC16BUGCD | | |
| FLE11/2TC14SWCD | 49894 | 5-13 |
| FLE14/2TC16SW/CD | | |
| FLE11G25XLRVL/BX | 67464 | 5-10 |
| FLE11H8G25SW | 60310 | 5-10 |
| FLE11R20XLRVL/BX | 67463 | 5-10 |
| FLE11R20XLRVLTLP | 61354 | 5-10 |
| FLE13HT/3/2/827 | 42159 | 5-11 |
| FLE13HT2/2/827 | 86256 | 5-11 |
| FLE13HT2/2/SW2PK | 85390 | 5-11 |
| FLE13HT2/2CAN2P | 75368 | 5-11 |
| FLE13HT2/6H/D/CD | 72472 | 5-11 |
| FLE13HT3/2/BL | 78957 | 5-14 |
| FLE13HT3/2/ORANGE | 78958 | 5-14 |
| FLE13HT3/2/RVL/CD | 75406 | 5-10 |
| FLE13HT3/2/SW/2P | 16459 | 5-11 |
| FLE13HT3/2/YELLOW | 78959 | 5-14 |
| FLE13HT3/2RVLBX2 | 67452 | 5-10 |
| FLE13HT3/2RVLBX4 | 62906 | 5-10 |
| FLE13HT3/2RVLCD2 | 75411 | 5-10 |
| FLE14/2/TC16/BUG | 47464 | 5-13 |
| FLE14/2/TC16SWCD | 85384 | 5-13 |
| FLE14/3/CACSSBX3 | 60296 | 5-13 |
| FLE14/3/CACSSWBX3 | 60300 | 5-13 |
| FLE14/3/CAMSSBX3 | 60294 | 5-13 |
| FLE14/3/CAMSSWBX3 | 60298 | 5-13 |
| FLE14HT3/2-PK4/6 | 65425 | 5-11 |
| FLE14HT3/2/827 | 94543 | 5-11 |
| FLE14HT3/2/841 | 94542 | 5-11 |
| FLE14HT3/2DBX2/6 | 64005 | 5-11 |
| FLE14HT3/2DM/BX | 66662 | 5-12 |
| FLE14HT3/41BX2ZH | 67445 | 5-11 |
| FLE14HT3/DMRVLBX | 67465 | 5-10 |
| FLE15/2/A19XL | 89632 | 5-13 |
| FLE15/2/A21XL/CD | 47487 | 5-13 |
| FLE15/2/R30/D/CD | 78950 | 5-12 |
| FLE15/2/R30/SWCD | 20708 | 5-12 |
| FLE16/2/R30/SWCD | | |
| FLE15/2DMR30/BX | 66664 | 5-13 |
| FLE15/DVR30RVLCD | 63522 | 5-10 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| FLE15HB19/2RVLBX | 67459 | 5-10 |
| FLE15HBG25SW | 87432 | 5-10 |
| FLE15HT3/2/D/CD | 89091 | 5-11 |
| FLE14HT3/2/D/CD | | |
| FLE15HT3/2/XL/CD | 47435 | 5-11 |
| FLE15HT3/2/XL/SW | 80937 | 5-11 |
| FLE15HT3/2GU24CD | 75367 | 5-12 |
| FLE15HT3/2SX/827 | 64801 | 5-11 |
| FLE15HT3XXLL/5BX | 69659 | 5-11 |
| FLE15R30/RVL-TP6 | 61164 | 5-10 |
| FLE15R30/RVL/BX | 67461 | 5-10 |
| FLE16/2/R30/2P | 72984 | 5-13 |
| FLE16/2/R30XL/CD | 47478 | 5-12 |
| FLE16/2/R30XL827 | 80893 | 5-12 |
| FLE19HB21/2RVLCD | 63509 | 5-10 |
| FLE20/2/A19XL | 89634 | 5-13 |
| FLE20/2/T19XL | 89635 | 5-13 |
| FLE20HB21/2/SWCD | 63504 | 5-10 |
| FLE20HT2/12H/DCD | 62951 | 5-11 |
| FLE20HT2/2/XL/2P | 72875 | 5-11 |
| FLE20HT2/2/XL/CD | 72880 | 5-11 |
| FLE20HT2D/XL/BX3 | 68520 | 5-11 |
| FLE20HT3/2/6S/TP | 71764 | 5-11 |
| FLE20HT3/2/827 | 15834 | 5-11 |
| FLE20HT3/2/841 | 25186 | 5-11 |
| FLE20HT3/2/BX2PK | 74201 | 5-11 |
| FLE20HT3/2/CB/BX | 76993 | 5-12 |
| FLE20HT3/2/D/CD | 89094 | 5-11 |
| FLE20HT3/2/RVL/CD | 75407 | 5-10 |
| FLE20HT3/2/SW/BX | 74200 | 5-12 |
| FLE20HT3/2/SW/CD | 15516 | 5-11 |
| FLE20HT3/2/SW5PK | 97249 | 5-12 |
| FLE20HT3/2/SW6PK | 71284 | 5-12 |
| FLE20HT3/2/SWBX3 | 97690 | 5-12 |
| FLE20HT3/2/XL827 | 80888 | 5-11 |
| FLE20HT3/2DBX2/6 | 64006 | 5-12 |
| FLE20HT3/2GU24CD | 76136 | 5-12 |
| FLE20HT3/2RVLBX2 | 84252 | 5-10 |
| FLE20HT3/2RVLBX2 | 67453 | 5-10 |
| FLE20HT3/2SW/BX4 | 65672 | 5-12 |
| FLE20HT3/2SX/827 | 64802 | 5-11 |
| FLE20HT32SWCD3PK | 49587 | 5-12 |
| FLE20HT3XXLL/2BX | 69656 | 5-11 |
| FLE23HT/3/2/827 | 42164 | 5-12 |
| FLE23HT3/2/841 | 94546 | 5-12 |
| FLE23HT3/2/SW/CD | 15517 | 5-12 |
| FLE23HT3/2/XL827 | 80889 | 5-12 |
| FLE24/2PAR38FLCD | 78964 | 5-13 |
| FLE25HBA23RVLCD | 87461 | 5-10 |
| FLE25HBA23RVLWB | 95143 | 5-10 |
| FLE26/2/PAR38/CD | 21739 | 5-13 |
| FLE26/2/PAR38/XL | 80895 | 5-13 |
| FLE26/2/PAR382P | 73157 | 5-13 |
| FLE26/2/T21XL | 89636 | 5-13 |
| FLE26/2PAR38/BX | 82004 | 5-13 |
| FLE26/2PAR38XCD | 47483 | 5-13 |
| FLE26/DMR40RVLCD | 66668 | 5-10 |
| FLE26HT3/2/D/CD | 89095 | 5-12 |
| FLE26HT3/2/RVL/CD | 75408 | 5-10 |
| FLE26HT3/2/XL827 | 80890 | 5-12 |
| FLE26HT3/2D/3BX | 77123 | 5-12 |
| FLE26HT3/2D3CD | 77124 | 5-12 |
| FLE26HT3/2DM/BX | 66663 | 5-12 |
| FLE26HT3/2GU24CD | 76137 | 5-12 |
| FLE26HT3/2RVLBX2 | 67454 | 5-10 |

Index (cont.)

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| FLE26HT3/2RVLBX2 | 84253 | 5-10 |
| FLE26HT3/2RVLBX4 | 84262 | 5-10 |
| FLE26HT3/2RVLBX4 | 66354 | 5-10 |
| FLE26HT3/2RVLCD2 | 75413 | 5-10 |
| FLE26HT3/DMRVLBX | 67468 | 5-10 |
| FLE26HT3/DMRVLCD | 63521 | 5-10 |
| FLE26PAR3BDM/BX | 66667 | 5-12 |
| FLE26R40RVL/BXHH | 67467 | 5-10 |
| FLE26R40RVL/BXTP | 89860 | 5-10 |
| FLE26R40XLRVLT6 | 61355 | 5-10 |
| FLE29HLX/2XL/827 | 81514 | 5-12 |
| FLE32HLX/2/SW/BX | 24684 | 5-12 |
| FLE32HT3/2D3/BX | 78952 | 5-12 |
| FLE32HT3/2D3/CD | 63482 | 5-12 |
| FLE32HT3/2D3/DBX | 63517 | 5-12 |
| FLE32HT3/2D3CWBX | 62070 | 5-12 |
| FLE32HT3D3RVL/BX | 67466 | 5-10 |
| FLE32HTD3RVL/CD | 62908 | 5-10 |
| FLE42HLX/2/SW/BX | 97728 | 5-12 |
| FLE42HLX/2/XL827 | 80891 | 5-12 |
| FLE55HT5/2/SW/BX | 78965 | 5-12 |
| FLE9/2/CAC/SW/CD | 85388 | 5-13 |
| FLE9/2/CAC/XL2PK | 79068 | 5-13 |
| FLE9/2/CAM/SW/CD | 24692 | 5-13 |
| FLE9/2/CAM/XL/CD | 47488 | 5-13 |
| FLE9/2CAC/XL/827 | 16105 | 5-13 |
| FLE9/3/CAC/SSBX3 | 60295 | 5-13 |
| FLE9/3/CAC/SWBX3 | 60299 | 5-13 |
| FLE9/3/CAM/SSBX3 | 60292 | 5-13 |
| FLE9/3/CAM/SWBX3 | 60297 | 5-13 |
| FLE9/3/G18/3PK | 74587 | 5-14 |
| FLE9/3/G18/CD | 74586 | 5-14 |
| FLE9H/T3/2/827 | 42165 | 5-11 |
| FLE9H/T3/2/841 | 42171 | 5-11 |
| FLE9HT3/2/BX/2P | 74197 | 5-11 |
| FLE9HT3/2/SW/BX | 74196 | 5-11 |
| FLE9HT3/2/SW5PK | 73156 | 5-11 |
| FLE9HT3/2SW/BX4 | 65670 | 5-11 |
| FLEG25XLRVLT6 | 61353 | 5-10 |
| FLK-Q575T6 | 88548 | 7-7 |
| FLK/LL-Q575T6 | 88452 | 7-7 |
| FML | 14887 | 9-6 |
| FRG-Q500T8 | 88467 | 7-7 |
| FRK-Q650T8 | 88462 | 7-7 |
| FS-2-C/TP | 64818 | 15-6 |
| FS-25-C/TP | 64820 | 15-6 |
| FS-4-C/TP | 64819 | 15-6 |
| FS-5-C/TP | 64821 | 15-6 |
| FXL | 21613 | 9-6 |
| G10T8 | 29498 | 4-21 |
| G11T5 | 29495 | 4-21 |
| G15T8 | 11078 | 4-21 |
| G15T8/CVG | 72761 | 4-19 |
| G16T5/4P/SE | 29502 | 4-21 |
| G20T10 | 15876 | 4-21 |
| G25T8 | 11082 | 4-21 |
| G30T8 | 11080 | 4-21 |
| G36T5 | 15874 | 4-21 |
| G36T5/4P/SE | 29503 | 4-21 |
| G36T8 | 29499 | 4-21 |
| G4T5 | 15872 | 4-21 |
| G55T8/HO | 15875 | 4-21 |
| G64T5 | 15864 | 4-21 |
| G64T5/4P/SE | 29504 | 4-21 |
| G6T5 | 15873 | 4-21 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| G8T5 | 11077 | 4-21 |
| GE-232-MVPS-H | 29675 | 11-6 |
| GE-232-MVPS-XL | 29671 | 11-7 |
| GE-259-120-N | 23677 | 10-57 |
| GE-260IS-MV-N | 74474 | 14-4 |
| GE-332-120-N | 23673 | 10-56 |
| GE-332-MVPS-H | 29676 | 11-8 |
| GE-332-MVPS-XL | 29672 | 11-10 |
| GE-332MVPS-H-V03 | 75384 | 12-21 |
| GE-432-120-PS-N | 29625 | 11-10 |
| GE-CV-406OCTR | 79814 | 20-3 |
| GE-MH-250-400-MA | 29377 | 18-62 |
| GE132-MVPS-H | 75954 | 11-4 |
| GE132-MVPS-L | 75952 | 11-2 |
| GE132-MVPS-N | 75953 | 11-3 |
| GE132-MVPS-N-S30 | 68966 | 12-5 |
| GE132MAX-G-347 | 74101 | 10-51 |
| GE132MAX-G-N | 72269 | 10-39 |
| GE132MAXP-H/ULTRA | 63885 | 10-9 |
| GE132MAXP-L/ULTRA | 72258 | 10-7 |
| GE132MAXP-N/ULTRA | 72259 | 10-8 |
| GE132MVPS-N-V03 | 75379 | 12-16 |
| GE159MAX-G-N | 72271 | 10-49 |
| GE180MVPS-D | 72280 | 13-10 |
| GE21T5-120-RES | 78518 | 13-3 |
| GE224MVPS-N | 68976 | 13-5 |
| GE228MVPS-MC | 68993 | 13-4 |
| GE228MVPS-MC-H | 68994 | 13-4 |
| GE228MVPS-N-S35 | 90903 | 12-24 |
| GE232-120-RES | 97782 | 10-58 |
| GE232-MVPS-H-V03 | 75383 | 12-20 |
| GE232-MVPS-L | 96720 | 11-5 |
| GE232-MVPS-L-S30 | 68968 | 12-6 |
| GE232-MVPS-N | 96714 | 11-5 |
| GE232-MVPS-N-S30 | 68967 | 12-7 |
| GE232MAX-G-347 | 74103 | 10-52 |
| GE232MAX-G-H | 74803 | 10-40 |
| GE232MAX-G-L | 72273 | 10-41 |
| GE232MAX-G-N | 72275 | 10-42 |
| GE232MAX90-S60 | 73233 | 12-8 |
| GE232MAX90-V60 | 73234 | 12-12 |
| GE232MAXP-H/ULTRA | 73190 | 10-10 |
| GE232MAXP-L/ULTRA | 72262 | 10-11 |
| GE232MAXP-N/ULTRA | 72266 | 10-12 |
| GE232MAXP-N+ | 71421 | 10-13 |
| GE232MAXP347-H | 74109 | 10-33 |
| GE232MAXP347-L | 74096 | 10-30 |
| GE232MAXP347-N | 74093 | 10-26 |
| GE232MAXP347-N+ | 67435 | 10-27 |
| GE232MAXP480-H | 62718 | 10-36 |
| GE232MVPS-N-V03 | 75380 | 12-17 |
| GE232PS347-H | 62726 | 11-18 |
| GE232PS347-L | 62721 | 11-13 |
| GE232PS347-N | 62723 | 11-15 |
| GE240PS-MV-N | 74472 | 14-3 |
| GE254MVPS-D-1 | 33957 | 13-7 |
| GE254MVPS90-A | 67562 | 13-6 |
| GE254PS347-F | 62729 | 13-12 |
| GE254PS347/480-F | 62728 | 13-11 |
| GE259MAX-G-347 | 74099 | 10-55 |
| GE259MAX-G-N | 74469 | 10-50 |
| GE259MAXP-L/ULTRA | 73199 | 10-24 |
| GE259MAXP-N/ULTRA | 49767 | 10-23 |
| GE286MAXP-HO-N | 63888 | 10-25 |
| GE28T5-120-RES | 78811 | 13-3 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| GE28T5/2-120-RES | 80021 | 13-3 |
| GE296HO-MVPS-N | 35727 | 14-5 |
| GE332-MVPS-L | 96721 | 11-9 |
| GE332-MVPS-N | 96715 | 11-9 |
| GE332MAX-G-347 | 74105 | 10-53 |
| GE332MAX-G-H | 74461 | 10-43 |
| GE332MAX-G-L | 74459 | 10-44 |
| GE332MAX-G-N | 74456 | 10-45 |
| GE332MAX90-S60 | 73231 | 12-9 |
| GE332MAX90-V60 | 73232 | 12-13 |
| GE332MAXP-H/ULTRA | 78619 | 10-14 |
| GE332MAXP-L/ULTRA | 78621 | 10-15 |
| GE332MAXP-N/ULTRA | 78623 | 10-16 |
| GE332MAXP-N+ | 71422 | 10-17 |
| GE332MAXP347-H | 74111 | 10-34 |
| GE332MAXP347-L | 74097 | 10-31 |
| GE332MAXP347-N | 74094 | 10-28 |
| GE332MAXP480-H | 62719 | 10-37 |
| GE332MVPS-N-V03 | 75381 | 12-18 |
| GE332PS347-H | 62727 | 11-19 |
| GE332PS347-L | 63041 | 11-20 |
| GE332PS347-N | 62724 | 11-16 |
| GE432-120-RES | 97783 | 10-59 |
| GE432-MVPS-H | 74476 | 11-12 |
| GE432-MVPS-H-V03 | 75385 | 12-22 |
| GE432-MVPS-L | 71832 | 11-11 |
| GE432-MVPS-N | 96716 | 11-11 |
| GE432-MVPS-N-V03 | 75382 | 12-19 |
| GE432MAX-G-347 | 74107 | 10-54 |
| GE432MAX-G-H | 67911 | 10-46 |
| GE432MAX-G-L | 74466 | 10-47 |
| GE432MAX-G-N | 74463 | 10-48 |
| GE432MAX90-S60 | 73229 | 12-10 |
| GE432MAX90-V60 | 73230 | 12-14 |
| GE432MAXP-H/ULTRA | 71723 | 10-18 |
| GE432MAXP-L/ULTRA | 78625 | 10-19 |
| GE432MAXP-N/ULTRA | 78627 | 10-20 |
| GE432MAXP347-H | 74113 | 10-35 |
| GE432MAXP347-L | 74098 | 10-32 |
| GE432MAXP347-N | 74095 | 10-29 |
| GE432MAXP480-H | 62720 | 10-38 |
| GE432MVPS-H-42T | 74477 | 11-12 |
| GE432MVPS-N-V03W | 62044 | 12-23 |
| GE432PS347-L | 62722 | 11-14 |
| GE432PS347-N | 62725 | 11-17 |
| GE454MVPS90-E-S | 94131 | 13-8 |
| GE454MVPS90-F | 67566 | 13-9 |
| GE454PS347-E | 62731 | 13-14 |
| GE454PS347/480-E | 62730 | 13-13 |
| GE632MAX-H90-S60 | 71497 | 12-11 |
| GE632MAX-H90-V60 | 71731 | 12-15 |
| GE632MAXP-H90 | 74117 | 10-22 |
| GEC140MAX-A | 75948 | 17-10 |
| GEC213-MVPS-3W | 63089 | 17-6 |
| GEC213-MVPS-BES | 63091 | 17-6 |
| GEC213-MVPS-SE | 63092 | 17-6 |
| GEC218-MVPS-3W | 63093 | 17-7 |
| GEC218-MVPS-BES | 63094 | 17-7 |
| GEC218-MVPS-SE | 63096 | 17-7 |
| GEC225MVPS-A | 75950 | 17-13 |
| GEC226-MVPS-3W | 63097 | 17-8 |
| GEC226-MVPS-BES | 63098 | 17-8 |
| GEC226-MVPS-SE | 63099 | 17-8 |
| GEC240MAX-A | 71435 | 17-11 |
| GEC240MVPS-A | 71437 | 17-13 |

| Description | Order Code | Page Number |
|----------------------|------------|-------------|
| GEC242-MVPS-3W | 63100 | 17-9 |
| GEC242-MVPS-BES | 63101 | 17-9 |
| GEC242-MVPS-SE | 63102 | 17-9 |
| GEC340MAX-A | 71436 | 17-12 |
| GECAP-10/400V-O | 75433 | 18-59 |
| GECAP-12/280V-D | 75427 | 18-59 |
| GECAP-14/280V-D | 75669 | 18-59 |
| GECAP-15/400V-O | 75434 | 18-59 |
| GECAP-16/280V-D | 75428 | 18-59 |
| GECAP-21/345V-O | 75431 | 18-59 |
| GECAP-22.5/345V-O | 75432 | 18-59 |
| GECAP-24/400V-O | 75435 | 18-59 |
| GECAP-24/480V-O | 75668 | 18-59 |
| GECAP-26/525V-O | 75437 | 18-59 |
| GECAP-28/400V-O | 75436 | 18-59 |
| GECAP-32/525V-O | 75438 | 18-59 |
| GECAP-35/240V-D | 75422 | 18-59 |
| GECAP-5/300V-D | 75429 | 18-59 |
| GECAP-55/240V-D | 75423 | 18-59 |
| GECAP-6/280V-D | 75425 | 18-59 |
| GECAP-7/300V-D | 75430 | 18-59 |
| GECAP-8/280V-D | 75426 | 18-59 |
| GELT604835CTR-SY/ SB | 85754 | 20-3 |
| GELT604835EDL-SY/ SB | 85756 | 20-3 |
| GELT604835EDR-SY/ SB | 85755 | 20-3 |
| GELT604840CTR-SY/ SB | 85748 | 20-3 |
| GELT604840EDL-SY/ SB | 85750 | 20-3 |
| GELT604840EDR-SY/ SB | 85749 | 20-3 |
| GELT604850CTR-SY/ SB | 85742 | 20-3 |
| GELT604850EDL-SY/ SB | 85744 | 20-3 |
| GELT604850EDR-SY/ SB | 85743 | 20-3 |
| GELT606035CTR-SY/ SB | 85711 | 20-3 |
| GELT606035EDL-SY/ SB | 85713 | 20-3 |
| GELT606035EDR-SY/ SB | 85712 | 20-3 |
| GELT606040CTR-SY/ SB | 85705 | 20-3 |
| GELT606040EDL-SY/ SB | 85707 | 20-3 |
| GELT606040EDR-SY/ SB | 85706 | 20-3 |
| GELT606050CTR-SY/ SB | 85699 | 20-3 |
| GELT606050EDL-SY/ SB | 85701 | 20-3 |
| GELT606050EDR-SY/ SB | 85700 | 20-3 |
| GELT606735CTR-SY/ SB | 85736 | 20-3 |
| GELT606735EDL-SY/ SB | 85738 | 20-3 |
| GELT606735EDR-SY/ SB | 85737 | 20-3 |
| GELT606740CTR-SY/ SB | 85725 | 20-3 |
| GELT606740EDL-SY/ SB | 85727 | 20-3 |
| GELT606740EDR-SY/ SB | 85726 | 20-3 |
| GELT606750CTR-SY/ SB | 85717 | 20-3 |
| GELT606750EDL-SY/ SB | 85721 | 20-3 |
| GELT606750EDR-SY/ SB | 85720 | 20-3 |
| GEM100048TAC5-5 | 86650 | 18-61 |
| GEM100048TAC5-5/2 | 63069 | 18-23 |
| GEM1000ML5AA5-5/2 | 87213 | 18-23 |
| GEM1000ML5AC4-55 | 71704 | 18-50 |
| GEM1000MLTAA5-5/2 | 86655 | 18-24 |
| GEM1000TRIAC5-5 | 78524 | 18-24 |
| GEM10048TLA3D-5/2 | 67333 | 18-15 |
| GEM10048TLC3D-5 | 86667 | 18-60 |
| GEM100MLTLC3D-5 | 86675 | 18-14 |
| GEM100TRILC3-5 | 78519 | 18-14 |
| GEM120PH120DIY | 68186 | 15-2 |
| GEM120TC120DIY | 68187 | 15-2 |
| GEM150048TAC5M5-5 | 86693 | 18-25 |
| GEM1500MLTAC5-5 | 86698 | 18-25 |
| GEM15048TLC3D-5 | 86711 | 18-16 |
| GEM150MLTLC3D-5 | 86718 | 18-15 |

| Description | Order Code | Page Number |
|--------------------|------------|-------------|
| GEM150TRILC3-5 | 78520 | 18-16 |
| GEM175ML5AC3-5 | 87210 | 18-17 |
| GEM175ML5AC3-55 | 71701 | 18-49 |
| GEM175MLTAC3-5 | 86741 | 18-17 |
| GEM175TRIAC3-5 | 78521 | 18-18 |
| GEM1CF13PH120 | 68188 | 15-5 |
| GEM1CF13PH120 | 87533 | 17-14 |
| GEM1FC16T9RS120 | 68190 | 15-3 |
| GEM1FC8T9RS120DI | 68191 | 15-4 |
| GEM1FC8T9RS120IP | 68193 | 15-4 |
| GEM220TS120DIY | 68192 | 15-5 |
| GEM232T8RS120 | 87125 | 10-60 |
| GEM250ML5AC3-5 | 87211 | 18-19 |
| GEM250ML5AC3-55 | 71702 | 18-49 |
| GEM250ML5AC4-5 | 87212 | 18-20 |
| GEM250MLTAC3-5 | 86765 | 18-19 |
| GEM250TRIAC4-5 | 78522 | 18-20 |
| GEM40048TAA4 - 5/2 | 63070 | 18-22 |
| GEM40048TAC4-5 | 86803 | 18-61 |
| GEM400ML5AA4-5/2 | 72300 | 18-21 |
| GEM400ML5AC4-55 | 71703 | 18-50 |
| GEM400MLTAA4-5 | 72149 | 18-22 |
| GEM400TRIAC4-5 | 78523 | 18-21 |
| GEM50MLTLC3D-5 | 86824 | 18-12 |
| GEM7048TLA3D-5/2 | 67337 | 18-13 |
| GEM7048TLC3D-5 | 86839 | 18-60 |
| GEM70MLTLC3D-5 | 86847 | 18-12 |
| GEM70MVR-F | 63047 | 18-53 |
| GEM70TRILC3-5 | 78517 | 18-13 |
| GEMH100-SLJ-MV | 87561 | 18-11 |
| GEMH100MVR-F | 63048 | 18-54 |
| GEMH150-SLJ-MV | 87576 | 18-11 |
| GEMH150MVR-F | 63049 | 18-54 |
| GEMH175MVA-F | 63050 | 18-55 |
| GEMH20-MC-120 | 74115 | 18-5 |
| GEMH20-MLF-120 | 87490 | 18-5 |
| GEMH20-MSF-MV | 63043 | 18-6 |
| GEMH20-MSJ-MV | 63042 | 18-6 |
| GEMH250-400MV50 | 89646 | 18-62 |
| GEMH250MVA-F | 63051 | 18-55 |
| GEMH39-MC-120 | 74116 | 18-8 |
| GEMH39-MCM-120 | 75378 | 18-8 |
| GEMH39-MSF-120 | 87501 | 18-9 |
| GEMH39-MSF-MV | 63045 | 18-7 |
| GEMH39-MSJ-MV | 63044 | 18-7 |
| GEMH400MVA-F | 63052 | 18-56 |
| GEMH50-MSF-120 | 87516 | 18-61 |
| GEMH70-MSF-120 | 87531 | 18-9 |
| GEMH70-MSLF-120 | 94135 | 18-10 |
| GEMH70-SLJ-MV | 87546 | 18-10 |
| GEMT3000NCM1-SB | 69723 | 20-5 |
| GEMT3000NCM1-SY | 69721 | 20-5 |
| GEMT302430CAN-SB | 69684 | 20-4 |
| GEMT302430CAN-SY | 69682 | 20-4 |
| GEMT302430USL-SB | 69690 | 20-4 |
| GEMT302430USL-SY | 69689 | 20-4 |
| GEMT302435CAN-SB | 69710 | 20-4 |
| GEMT302435CAN-SY | 69709 | 20-4 |
| GEMT302435USL-SB | 69716 | 20-4 |
| GEMT302435USL-SY | 69715 | 20-4 |
| GEMT302440CAN-SB | 69653 | 20-4 |
| GEMT302440CAN-SY | 69652 | 20-4 |
| GEMT302440USL-SB | 69665 | 20-4 |
| GEMT302440USL-SY | 69664 | 20-4 |
| GEMT302450CAN-SB | 69641 | 20-4 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| GEMT302450CAN-SY | 69640 | 20-4 |
| GEMT302450USL-SB | 69647 | 20-4 |
| GEMT302450USL-SY | 69646 | 20-4 |
| GEMT303630CAN-SB | 69686 | 20-4 |
| GEMT303630CAN-SY | 69685 | 20-4 |
| GEMT303630USL-SB | 69694 | 20-4 |
| GEMT303630USL-SY | 69691 | 20-4 |
| GEMT303635USL-SB | 69718 | 20-4 |
| GEMT303635CAN-SB | 69712 | 20-4 |
| GEMT303635CAN-SY | 69711 | 20-4 |
| GEMT303635USL-SY | 69717 | 20-4 |
| GEMT303640CAN-SB | 69661 | 20-4 |
| GEMT303640CAN-SY | 69660 | 20-4 |
| GEMT303640USL-SB | 69667 | 20-4 |
| GEMT303640USL-SY | 69666 | 20-4 |
| GEMT303650CAN-SB | 69643 | 20-4 |
| GEMT303650CAN-SY | 69642 | 20-4 |
| GEMT303650USL-SB | 69649 | 20-4 |
| GEMT303650USL-SY | 69648 | 20-4 |
| GEMT304830CAN-SB | 69688 | 20-4 |
| GEMT304830CAN-SY | 69687 | 20-4 |
| GEMT304830USL-SB | 69696 | 20-4 |
| GEMT304830USL-SY | 69695 | 20-4 |
| GEMT304835CAN-SB | 69714 | 20-4 |
| GEMT304835CAN-SY | 69713 | 20-4 |
| GEMT304835USL-SB | 69720 | 20-4 |
| GEMT304835USL-SY | 69719 | 20-4 |
| GEMT304840CAN-SB | 69663 | 20-4 |
| GEMT304840CAN-SY | 69662 | 20-4 |
| GEMT304840USL-SB | 69669 | 20-4 |
| GEMT304840USL-SY | 69668 | 20-4 |
| GEMT304850CAN-SB | 69645 | 20-4 |
| GEMT304850CAN-SY | 69644 | 20-4 |
| GEMT304850USL-SB | 69651 | 20-4 |
| GEMT304850USL-SY | 69650 | 20-4 |
| GEMT312430CAN-SB | 69698 | 20-5 |
| GEMT312430CAN-SY | 69697 | 20-5 |
| GEMT312430USL-SB | 69704 | 20-5 |
| GEMT312430USL-SY | 69703 | 20-5 |
| GEMT312440CAN-SB | 69671 | 20-5 |
| GEMT312440CAN-SY | 69670 | 20-5 |
| GEMT312440USL-SB | 69677 | 20-5 |
| GEMT312440USL-SY | 69676 | 20-5 |
| GEMT313630CAN-SB | 69700 | 20-5 |
| GEMT313630CAN-SY | 69699 | 20-5 |
| GEMT313630USL-SB | 69706 | 20-5 |
| GEMT313630USL-SY | 69705 | 20-5 |
| GEMT313640CAN-SB | 69673 | 20-5 |
| GEMT313640CAN-SY | 69672 | 20-5 |
| GEMT313640USL-SB | 69679 | 20-5 |
| GEMT313640USL-SY | 69678 | 20-5 |
| GEMT314830CAN-SB | 69702 | 20-5 |
| GEMT314830CAN-SY | 69701 | 20-5 |
| GEMT314830USL-SB | 69708 | 20-5 |
| GEMT314830USL-SY | 69707 | 20-5 |
| GEMT314840CAN-SB | 69675 | 20-5 |
| GEMT314840CAN-SY | 69674 | 20-5 |
| GEMT314840USL-SB | 69681 | 20-5 |
| GEMT314840USL-SY | 69680 | 20-5 |
| GEP1000ML5AA5-5/2 | 67349 | 18-36 |
| GEP1000ML5AC5-5 | 72282 | 18-63 |
| GEP1000MLTAA5-5/2 | 67348 | 18-35 |
| GEP1000MLTAC5-5 | 72281 | 18-63 |
| GEP1000TRIAC5-5 | 78532 | 18-35 |
| GEP17548TAA3-5/2 | 67334 | 18-27 |

Index (cont.)

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| GEP17548TAC3-5 | 86876 | 18-62 |
| GEP175MLTAC3-5 | 86885 | 18-62 |
| GEP175MLTACA3-5/2 | 67335 | 18-26 |
| GEP175TRIAC3-5 | 78525 | 18-26 |
| GEP200TRIAC3-5 | 78526 | 18-27 |
| GEP25048TAA4-5/2 | 67336 | 18-29 |
| GEP25048TAC4-5 | 86926 | 18-62 |
| GEP250MLTAA4-5/2 | 67344 | 18-28 |
| GEP250MLTAC4-5 | 86935 | 18-62 |
| GEP250TRIAC4-5 | 78527 | 18-28 |
| GEP32048TAC4-5 | 86952 | 18-62 |
| GEP32048TAC4-5/2 | 67342 | 18-30 |
| GEP320MLTAA4-5/2 | 67345 | 18-29 |
| GEP320MLTAC4-5 | 86959 | 18-62 |
| GEP320TRIAC4-5 | 78528 | 18-30 |
| GEP320TRIAC4-5 | 86968 | 18-63 |
| GEP350277RCE-5 | 42692 | 18-63 |
| GEP350MLTAA4-5/2 | 67346 | 18-31 |
| GEP350MLTAC4-5 | 86984 | 18-63 |
| GEP350TRIAC4-5 | 78529 | 18-31 |
| GEP40048TAA4-5/2 | 67341 | 18-32 |
| GEP40048TAC4-5 | 86999 | 18-63 |
| GEP400MLTAA4-5/2 | 67347 | 18-32 |
| GEP400MLTAC4-5 | 87008 | 18-63 |
| GEP400TRIAC4-5 | 78530 | 18-33 |
| GEP75048TAA5-5/2 | 67343 | 18-33 |
| GEP75048TAC5-5 | 46936 | 18-63 |
| GEP750MLTAA5-5/2 | 67350 | 18-34 |
| GEP750MLTAC5-5 | 46934 | 18-63 |
| GEP750TRIAC5-5 | 78531 | 18-34 |
| GEPS6100NCCON-SY | 13798 | 20-3 |
| GEPS6100NCCON-SY | 13798 | 20-5 |
| GEPS6500NCMUL-SY | 68595 | 20-3 |
| GEPS6500NCMUL-SY | 68595 | 20-5 |
| GES100048TAA5-5/2 | 67351 | 18-46 |
| GES100048TAC5-5 | 87048 | 18-64 |
| GES1000ML5AA5-5 | 87218 | 18-47 |
| GES1000MLTAA5-5/2 | 67352 | 18-47 |
| GES1000MLTAC5-5 | 87056 | 18-64 |
| GES1000TRIAC5-5 | 78540 | 18-48 |
| GES10048TLA3D-5/2 | 67338 | 18-40 |
| GES10048TLC3D-5 | 87068 | 18-64 |
| GES100MLTLC3D-5 | 87074 | 18-39 |
| GES100MLTLC3D-5S | 71705 | 18-51 |
| GES100TRILC3-5 | 78535 | 18-40 |
| GES15048TLA3D-5/2 | 67339 | 18-42 |
| GES15048TLC3D-5 | 87087 | 18-64 |
| GES150MLTLC3D-5 | 87094 | 18-41 |
| GES150TRILC3-5 | 78536 | 18-41 |
| GES250ML5AA4-5 | 87214 | 18-43 |
| GES250ML5AC4-5S | 71706 | 18-51 |
| GES250MLTAC4-5 | 87121 | 18-43 |
| GES250TRIAC4-5 | 78537 | 18-44 |
| GES40048TAC4-5 | 87198 | 18-46 |
| GES400ML5AA4-5 | 63066 | 18-44 |
| GES400ML5AC4-5 | 87215 | 18-64 |
| GES400ML5AC4-5S | 71707 | 18-52 |
| GES400MLTAC4-5 | 87164 | 18-45 |
| GES400TRIAC4-5 | 78539 | 18-45 |
| GES500MLTLC3D-5 | 87152 | 18-37 |
| GES500TRILC3-5 | 78533 | 18-37 |
| GES7048TLA3D-5/2 | 67340 | 18-39 |
| GES7048TLC3D-5 | 86456 | 18-63 |
| GES70MLTA3D-5 | 86587 | 18-38 |
| GES70TRILC3-5 | 78534 | 18-38 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| GESB-0412-12-IP | 72103 | 16-3 |
| GESB-0620-24-IP | 72104 | 16-3 |
| GESB-1224-24-IP | 72105 | 16-4 |
| GESB-1240-46-IP | 72106 | 16-4 |
| GESB-2040-24-IP | 72107 | 16-5 |
| GESB-2448-46-IP | 72108 | 16-5 |
| GETR277/120-175W | 85857 | 13-16 |
| GETR347/277-375W | 90896 | 13-16 |
| GETR480/277-250W | 74119 | 13-15 |
| GETR480/277-375W | 74120 | 13-15 |
| GFC-Q1200PAR64/1 | 88487 | 7-8 |
| GLA-Q575T6/4CL | 88424 | 7-7 |
| GLC-Q575T6/5CL | 88423 | 7-7 |
| GLD-Q750T6/4CL | 88427 | 7-7 |
| GLE-Q750T6/4CL | 88426 | 7-7 |
| H1 NHX/BP2 | 69857 | 8-9 |
| H1-55 | 40336 | 8-29 |
| H1-55 NH | 25092 | 8-29 |
| H1-55 NH | 25159 | 8-29 |
| H1-55/BP | 40336 | 8-12 |
| H1-55/BP | 40336 | 8-12 |
| H1-55NH/BP | 25159 | 8-10 |
| H1-55NH/BP2 | 25092 | 8-10 |
| H1-55NHP | 78134 | 8-29 |
| H1-55NHP | 94193 | 8-29 |
| H1-55NHP/BP2 | 78134 | 8-9 |
| H1-55NHX | 69857 | 8-29 |
| H1-70 | 27569 | 8-29 |
| H1-LL | 12777 | 8-11 |
| H1-LL | 12777 | 8-13 |
| H11 | 23762 | 8-30 |
| H11 C55NHP | 76189 | 8-30 |
| H11 NHX/BP2 | 69865 | 8-9 |
| H11-55 NHP/BP2 | 62267 | 8-9 |
| H11-55/BP | 23762 | 8-12 |
| H11-55/BP | 23762 | 8-14 |
| H11-55LL/BP | 89255 | 8-11 |
| H11-55LL/BP | 89255 | 8-13 |
| H11-55NHP | 62267 | 8-30 |
| H11-55NHX | 69865 | 8-30 |
| H11LL | 89255 | 8-30 |
| H13 (9008) | 71342 | 8-30 |
| H13 (9008) NH | 78653 | 8-30 |
| H13 (9008) NHP | 62430 | 8-30 |
| H13 (9008) NHS | 78654 | 8-30 |
| H13NH/BP2 | 78653 | 8-10 |
| H13NHP/BP2 | 62430 | 8-9 |
| H13NHS/BP2 | 78654 | 8-10 |
| H2-55 | 27330 | 8-29 |
| H3-100 | 12341 | 8-29 |
| H3-100/BP | 12341 | 8-12 |
| H3-100/BP | 12341 | 8-12 |
| H3-35 | 23442 | 8-29 |
| H3-55 | 12339 | 8-29 |
| H3-55/BP | 12339 | 8-12 |
| H3-55/BP | 12339 | 8-12 |
| H3-55D | 23445 | 8-29 |
| H3-55LL | 35044 | 8-29 |
| H3-65/28V | 23428 | 8-29 |
| H3-70/28V | 27332 | 8-29 |
| H4 NHX/BP2 | 69858 | 8-9 |
| H4-60 NH | 25094 | 8-29 |
| H4-60/55 | 27334 | 8-12 |
| H4-60/55 | 27334 | 8-14 |
| H4-60/55 | 18132 | 8-29 |

| Description | Order Code | Page Number |
|--------------|------------|-------------|
| H4-60/55/BP | 18132 | 8-12 |
| H4-60MS/BP | 89256 | 8-12 |
| H4-60NH/BP1 | 25094 | 8-10 |
| H4-60NHP | 75820 | 8-29 |
| H4-60NHP/BP2 | 75820 | 8-9 |
| H4-60NHX | 69858 | 8-29 |
| H4-75/70 | 27342 | 8-14 |
| H4-75/70/28V | 27342 | 8-29 |
| H4351 | 22386 | 8-14 |
| H4351 | 22386 | 8-33 |
| H4351LH | 10211 | 8-33 |
| H4352 | 22387 | 8-14 |
| H4352 | 22387 | 8-33 |
| H4360 | 18350 | 8-33 |
| H4405 | 15129 | 8-33 |
| H4460X | 17674 | 8-33 |
| H4515 | 15133 | 8-33 |
| H4651 | 18532 | 8-33 |
| H4651SB | 46375 | 8-33 |
| H4656 | 18533 | 8-12 |
| H4656 | 18532 | 8-14 |
| H4656 | 18533 | 8-33 |
| H4656 NH | 25098 | 8-33 |
| H4656 NHS | 97695 | 8-33 |
| H4656HO | 14753 | 8-33 |
| H4656HO0 | 14753 | 8-14 |
| H4656NH | 25098 | 8-10 |
| H4656NHS | 97695 | 8-10 |
| H4656SB | 45475 | 8-33 |
| H4666 | 18535 | 8-12 |
| H4666 | 18535 | 8-14 |
| H4666 | 18535 | 8-33 |
| H4666 NH | 28157 | 8-33 |
| H4666 NHS | 97694 | 8-33 |
| H4666NH | 28157 | 8-10 |
| H4666NH* | 28157 | 8-14 |
| H4666NHS | 97694 | 8-10 |
| H4701 | 18536 | 8-14 |
| H4701 | 18536 | 8-33 |
| H4703 | 18538 | 8-14 |
| H4703 | 18538 | 8-33 |
| H5001 | 18522 | 8-14 |
| H5001 | 18522 | 8-33 |
| H5006 | 18523 | 8-14 |
| H5006 | 18523 | 8-33 |
| H5024 | 19428 | 8-11 |
| H5024 | 19428 | 8-13 |
| H5024 | 19428 | 8-33 |
| H5051 | 19411 | 8-11 |
| H5051 | 19411 | 8-13 |
| H5051 | 19411 | 8-33 |
| H5054 | 19429 | 8-11 |
| H5054 | 19429 | 8-13 |
| H5054 | 19429 | 8-33 |
| H5062 | 19412 | 8-11 |
| H5062 | 19412 | 8-13 |
| H5062 | 19412 | 8-33 |
| H5360 | 41453 | 8-33 |
| H6024 | 18525 | 8-12 |
| H6024 | 18525 | 8-14 |
| H6024 | 18525 | 8-33 |
| H6024 NH | 28153 | 8-33 |
| H6024NH | 28153 | 8-10 |
| H6024NH* | 28153 | 8-14 |
| H6024NHS | 97693 | 8-10 |

| Description | Order Code | Page Number |
|--------------|------------|-------------|
| H6024NHS | 97693 | 8-33 |
| H6054 | 18534 | 8-12 |
| H6054 | 18534 | 8-14 |
| H6054 | 18534 | 8-33 |
| H6054 NH | 25097 | 8-33 |
| H6054HO | 14752 | 8-33 |
| H6054HO0 | 14752 | 8-14 |
| H6054NH | 25097 | 8-10 |
| H6054NH* | 25097 | 8-14 |
| H6054NHS | 97692 | 8-10 |
| H6054NHS | 97692 | 8-33 |
| H7 NHX/BP2 | 69860 | 8-9 |
| H7-55 | 26374 | 8-29 |
| H7-55 LL | 78640 | 8-29 |
| H7-55 NH | 25160 | 8-29 |
| H7-55 NHS | 66006 | 8-30 |
| H7-55 NHS | 89141 | 8-30 |
| H7-55 NHS | 89235 | 8-30 |
| H7-55/BP | 26374 | 8-12 |
| H7-55/BP | 26374 | 8-14 |
| H7-55LL | 35755 | 8-29 |
| H7-55LL/BP | 78640 | 8-11 |
| H7-55LL/BP | 78640 | 8-13 |
| H7-55NH/BP | 25160 | 8-10 |
| H7-55NH/BP2 | 25095 | 8-10 |
| H7-55NHP | 75821 | 8-30 |
| H7-55NHP/BP2 | 75821 | 8-9 |
| H7-55NHS/BP | 89141 | 8-10 |
| H7-55NHS/BP2 | 66006 | 8-10 |
| H7-55NHX | 69860 | 8-30 |
| H7550 | 43561 | 8-33 |
| H7550-1 | 23541 | 8-33 |
| H7551 | 43564 | 8-33 |
| H7552 | 43567 | 8-33 |
| H7553 | 43570 | 8-33 |
| H7554 | 43574 | 8-33 |
| H7555 | 44642 | 8-33 |
| H7556 | 44924 | 8-33 |
| H7557 | 12720 | 8-33 |
| H7600 | 42841 | 8-33 |
| H7604 | 43576 | 8-14 |
| H7604 | 43576 | 8-33 |
| H7606 | 14616 | 8-33 |
| H7607 | 17672 | 8-33 |
| H7609 | 14617 | 8-33 |
| H7610 | 14618 | 8-33 |
| H7612 | 49695 | 8-14 |
| H7612 | 49695 | 8-33 |
| H7614 | 49731 | 8-33 |
| H7616 | 42838 | 8-33 |
| H7619 | 14619 | 8-33 |
| H7621-1 | 45058 | 8-14 |
| H7621-1 | 45058 | 8-33 |
| H7635 | 43591 | 8-33 |
| H7635X | 18022 | 8-33 |
| H7921-1 | 13426 | 8-14 |
| H7921-1 | 13426 | 8-33 |
| H7935-1 | 47460 | 8-33 |
| H8 | 29047 | 8-30 |
| H8-35W BP | 29047 | 8-12 |
| H9 | 29049 | 8-30 |
| H9-65W BP | 29049 | 8-14 |
| H9-65W BP | 29049 | 8-12 |
| H9405 | 15767 | 8-33 |
| H9406 | 15769 | 8-33 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| H9411 | 15771 | 8-33 |
| H9414 | 15772 | 8-33 |
| H9415 | 16484 | 8-14 |
| H9415 | 16484 | 8-34 |
| H9415A | 17988 | 8-14 |
| H9415A | 17988 | 8-34 |
| H9420 | 16976 | 8-14 |
| H9420 | 16976 | 8-34 |
| H9420 | 16978 | 8-34 |
| H9421 | 16482 | 8-14 |
| H9421 | 16204 | 8-34 |
| H9421 | 16482 | 8-34 |
| HB-12-DR | 64135 | 21-4 |
| HB-12-DR-D | 64136 | 21-4 |
| HB-12-SR | 64131 | 21-4 |
| HB-12-SR-D | 64132 | 21-4 |
| HPL375/C 115V | 88540 | 7-7 |
| HPL375/LL/C 115V | 88539 | 7-7 |
| HPL575/C 115V | 88438 | 7-7 |
| HPL575/C 120V | 88436 | 7-7 |
| HPL575/LL/C 115V | 88435 | 7-7 |
| HPL575/LL/C 120V | 88434 | 7-7 |
| HPL750 | 88474 | 7-7 |
| HPL750/C 115V | 88437 | 7-7 |
| HPL750/LL/C | 88428 | 7-7 |
| HPS1000-4B | 75439 | 18-59 |
| HPS150-3A | 86635 | 18-59 |
| HPS400-3A | 86641 | 18-59 |
| HR100A38 | 12471 | 3-17 |
| HR100DX38 | 22575 | 3-17 |
| HR100DX38/CP | 26437 | 3-17 |
| HR100DX38/MED | 17113 | 3-17 |
| HR175A39 | 24048 | 3-17 |
| HR175A39/CP | 26440 | 3-17 |
| HR175DX39 | 24062 | 3-17 |
| HR175DX39/CP | 26439 | 3-17 |
| HR250A37 | 24068 | 3-17 |
| HR250DX37 | 32127 | 3-17 |
| HR400A33 | 23974 | 3-17 |
| HR400DX33 | 23998 | 3-17 |
| HX5000 | 22959 | 7-8 |
| KPR 113 | 23153 | 8-30 |
| KPR102 | 22961 | 8-30 |
| LED0.5C7/C/CD2 | 13887 | 6-3 |
| LED0.5C7/W/CD2 | 14150 | 6-3 |
| LED10DA19/827 | 69117 | 6-4 |
| LED10DA19/830 | 69119 | 6-4 |
| LED10DA19/840 | 69133 | 6-4 |
| LED10DA19/850 | 69146 | 6-4 |
| LED10DR303/850W | 69107 | 6-5 |
| LED10DR303V/827W | 68160 | 6-5 |
| LED10DR303V/830W | 68161 | 6-5 |
| LED10DR30V/827W | 43234 | 6-5 |
| LED10DR30V/830W | 43237 | 6-5 |
| LED10DR30V/850W | 43241 | 6-5 |
| LED10LS3/828 | 28089 | 6-4 |
| LED10LS3/850 | 32273 | 6-4 |
| LED10RS4/827E26P | 95853 | 20-6 |
| LED10RS4/827E26P | 95853 | 6-8 |
| LED10RS4/827GUP | 95855 | 20-6 |
| LED10RS4/827GUP | 95855 | 6-8 |
| LED10RS4/830E26P | 95854 | 20-6 |
| LED10RS4/830E26P | 95854 | 6-8 |
| LED10RS4/830GUP | 95856 | 20-6 |
| LED10RS4/830GUP | 95856 | 6-8 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| LED10RS4/840E26P | 35365 | 6-8 |
| LED10RS6/827E26P | 85153 | 20-6 |
| LED10RS6/827E26P | 85153 | 6-9 |
| LED10RS6/827GUP | 95851 | 20-6 |
| LED10RS6/827GUP | 95851 | 6-9 |
| LED10RS6/830E26P | 85160 | 20-6 |
| LED10RS6/830E26P | 85160 | 6-9 |
| LED10RS6/830GUP | 95852 | 20-6 |
| LED10RS6/830GUP | 95852 | 6-9 |
| LED10RS6/840E26P | 30367 | 6-9 |
| LED11DA19/5K | 95927 | 6-4 |
| LED11DA19/824 | 29268 | 6-4 |
| LED11DA19/827 | 11328 | 6-4 |
| LED11DA19/830 | 71209 | 6-4 |
| LED11DA19827GU24 | 74357 | 6-4 |
| LED11DAV3/827W | 13791 | 6-4 |
| LED11ET8/G/3/830 | 35783 | 6-10 |
| LED11ET8/G/3/835 | 35784 | 6-10 |
| LED11ET8/G/3/840 | 35788 | 6-10 |
| LED11ET8/G/3/850 | 35789 | 6-10 |
| LED12D38W3827/40 | 92971 | 6-7 |
| LED12D38W3830/25 | 92972 | 6-7 |
| LED12D38W0383040 | 92973 | 6-7 |
| LED12DA21/850FE | 73404 | 6-4 |
| LED12DA21F/830FE | 73384 | 6-4 |
| LED12DP302/FL/TP | 89988 | 6-6 |
| LED12DP303W83035 | 98755 | 6-6 |
| LED12DP30RB82740 | 73583 | 6-6 |
| LED12DP30RW82725 | 42133 | 6-6 |
| LED12DP30RW82740 | 42134 | 6-6 |
| LED12DP30RW83025 | 84384 | 6-6 |
| LED12DP30RW83040 | 42131 | 6-6 |
| LED12DP30RW92725 | 84392 | 6-6 |
| LED12DP30RW92740 | 84395 | 6-6 |
| LED12DP30RW93015 | 84374 | 6-6 |
| LED12DP30RW93025 | 84379 | 6-6 |
| LED12DP30RW93040 | 84380 | 6-6 |
| LED12DP382W82725 | 90132 | 6-7 |
| LED12DP382WFL/TP | 89990 | 6-7 |
| LED12DP38W827/25 | 63323 | 6-7 |
| LED12DP38W927/25 | 63334 | 6-7 |
| LED12DP3L2/FL/TP | 89989 | 6-6 |
| LED12DP3L2FL5KTP | 22233 | 6-6 |
| LED12DP3L3W83035 | 98811 | 6-6 |
| LED12DP3LRW82725 | 42141 | 6-6 |
| LED12DP3LRW82740 | 42144 | 6-6 |
| LED12DP3LRW83025 | 42136 | 6-6 |
| LED12DP3LRW83040 | 42137 | 6-6 |
| LED12DP3LRW92740 | 84407 | 6-6 |
| LED12DP3LRW93025 | 84399 | 6-6 |
| LED12DP3LRW93040 | 84400 | 6-6 |
| LED12ET8/3/830 | 31554 | 6-9 |
| LED12ET8/3/835 | 26544 | 6-9 |
| LED12ET8/3/840 | 26625 | 6-9 |
| LED12ET8/3/850 | 26627 | 6-9 |
| LED12ET8/4/830 | 61218 | 6-9 |
| LED12ET8/4/835 | 61223 | 6-9 |
| LED12ET8/4/840 | 61271 | 6-9 |
| LED12ET8/4/850 | 61327 | 6-9 |
| LED12ET8/4/865 | 61329 | 6-9 |
| LED12ET8/G/4/830 | 43284 | 6-10 |
| LED12ET8/G/4/835 | 43288 | 6-10 |
| LED12ET8/G/4/840 | 43291 | 6-10 |
| LED12ET8/G/4/850 | 43293 | 6-10 |
| LED12G24Q-H/827 | 96799 | 6-8 |

Index (cont.)

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| LED12G24Q-H/830 | 96798 | 6-8 |
| LED12G24Q-H/835 | 96761 | 6-8 |
| LED12G24Q-H/840 | 96769 | 6-8 |
| LED12G24Q-V/827 | 96801 | 6-8 |
| LED12G24Q-V/830 | 96775 | 6-8 |
| LED12G24Q-V/835 | 96689 | 6-8 |
| LED12G24Q-V/840 | 96771 | 6-8 |
| LED12T8/DR/2L | 76289 | 6-11 |
| LED12T8/DR/D2L | 76290 | 6-11 |
| LED12T8/DR/D4L | 76318 | 6-11 |
| LED12T8/G/4/830 | 76194 | 6-11 |
| LED12T8/G/4/835 | 76264 | 6-11 |
| LED12T8/G/4/840 | 76265 | 6-11 |
| LED12T8/G/4/850 | 76271 | 6-11 |
| LED12T8/G/4/865 | 76278 | 6-11 |
| LED13BR40/5K/TP | 20445 | 6-5 |
| LED13DA212/827 | 12422 | 6-4 |
| LED13DBR40/827 | 64176 | 6-5 |
| LED13DBR40/830 | 14708 | 6-5 |
| LED13ET8/U6/830 | 43120 | 6-9 |
| LED13ET8/U6/835 | 43125 | 6-9 |
| LED13ET8/U6/840 | 43129 | 6-9 |
| LED13ET8/U6/850 | 43130 | 6-9 |
| LED13RS6/827E26P | 70120 | 20-6 |
| LED13RS6/827E26P | 70120 | 6-9 |
| LED13RS6/827GUP | 70124 | 20-6 |
| LED13RS6/827GUP | 70124 | 6-9 |
| LED13RS6/830E26P | 70122 | 20-6 |
| LED13RS6/830E26P | 70122 | 6-9 |
| LED13RS6/830GUP | 70127 | 20-6 |
| LED13RS6/830GUP | 70127 | 6-9 |
| LED14/DR/D3L | 28174 | 6-11 |
| LED14DA21/827W | 94936 | 6-4 |
| LED14LS2/828 | 35520 | 6-4 |
| LED14LS2/850 | 35522 | 6-4 |
| LED14T8/U/835 | 28084 | 6-10 |
| LED14T8/U/840 | 28164 | 6-10 |
| LED15DP38W830/40 | 32213 | 6-6 |
| LED15ET8/4/830 | 62399 | 6-9 |
| LED15ET8/4/835 | 62401 | 6-9 |
| LED15ET8/4/840 | 62402 | 6-9 |
| LED15ET8/4/850 | 62409 | 6-9 |
| LED15ET8/4/865 | 62410 | 6-9 |
| LED15ET8/835-V6P | 35896 | 6-10 |
| LED15ET8/840-V6P | 35900 | 6-10 |
| LED15ET8/850-V6P | 35911 | 6-10 |
| LED15ET8/865-V6P | 35913 | 6-10 |
| LED15ET8/G/4/830 | 35790 | 6-9 |
| LED15ET8/G/4/835 | 35791 | 6-9 |
| LED15ET8/G/4/840 | 35793 | 6-9 |
| LED15ET8/G/4/850 | 35797 | 6-9 |
| LED15ET8/G/4/865 | 35798 | 6-10 |
| LED15T5/G/2/830 | 76150 | 6-11 |
| LED15T5/G/2/835 | 76164 | 6-11 |
| LED15T5/G/2/840 | 76129 | 6-11 |
| LED15T5/G/2/850 | 76167 | 6-11 |
| LED15T5/G/2/865 | 76192 | 6-11 |
| LED15T8/4/830 | 38954 | 6-10 |
| LED15T8/4/835 | 38957 | 6-10 |
| LED15T8/4/840 | 38958 | 6-10 |
| LED15T8/4/850 | 38962 | 6-10 |
| LED15T8/4/865 | 38964 | 6-10 |
| LED15T8/DR/D2L | 38974 | 6-11 |
| LED15T8/DR/D4L | 38975 | 6-11 |
| LED15T8/DR/UN/2L | 38970 | 6-11 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| LED15T8/G/4/830 | 38944 | 6-10 |
| LED15T8/G/4/835 | 38945 | 6-10 |
| LED15T8/G/4/840 | 38950 | 6-11 |
| LED15T8/G/4/850 | 38951 | 6-11 |
| LED15T8/G/4/865 | 38952 | 6-11 |
| LED15T8/G/U6/830 | 43131 | 6-11 |
| LED15T8/G/U6/835 | 43135 | 6-11 |
| LED15T8/G/U6/840 | 43143 | 6-11 |
| LED15T8/G/U6/850 | 43145 | 6-11 |
| LED165/M400/740 | 21259 | 6-8 |
| LED16A30/100/5KB | 92118 | 6-4 |
| LED16A30/100/827 | 73376 | 6-4 |
| LED16DA212/827 | 12349 | 6-4 |
| LED16DA212/830 | 12399 | 6-4 |
| LED16DA21827GU24 | 92498 | 6-4 |
| LED16LS2/828 | 35523 | 6-4 |
| LED16LS2/850 | 35524 | 6-4 |
| LED172G11/830/10 | 39073 | 6-8 |
| LED172G11/835/10 | 39074 | 6-8 |
| LED172G11/840/10 | 39075 | 6-8 |
| LED172G11/850/10 | 39076 | 6-8 |
| LED17DA21/5K/BX | 34369 | 6-4 |
| LED17DA21/827 | 16113 | 6-4 |
| LED17DA221XSW | 23006 | 6-4 |
| LED17DP30LW93025 | 20151 | 6-6 |
| LED18D380W382725 | 92950 | 6-7 |
| LED18D380W382740 | 92958 | 6-7 |
| LED18D380W383025 | 92963 | 6-7 |
| LED18D380W383040 | 92967 | 6-7 |
| LED18D380W383525 | 85085 | 6-7 |
| LED18D380W383540 | 87917 | 6-7 |
| LED18D380W384025 | 93171 | 6-7 |
| LED18D380W384040 | 93172 | 6-7 |
| LED18D380W385025 | 65730 | 6-7 |
| LED18D380W385040 | 65731 | 6-7 |
| LED18D38W3830/15 | 92961 | 6-7 |
| LED18D38W3927/25 | 92923 | 6-7 |
| LED18D38W3927/40 | 92926 | 6-7 |
| LED18D38W3930/15 | 92927 | 6-7 |
| LED18D38W3930/25 | 92933 | 6-7 |
| LED18D38W3930/40 | 92934 | 6-7 |
| LED18D38W830/15 | 94909 | 6-7 |
| LED18D38WW930/15 | 31300 | 6-7 |
| LED18D38WW930/25 | 31301 | 6-7 |
| LED18DP38W/FL/TP | 89992 | 6-7 |
| LED18ET8/4/830 | 31550 | 6-9 |
| LED18ET8/4/835 | 93133 | 6-9 |
| LED18ET8/4/840 | 93135 | 6-9 |
| LED18ET8/4/850 | 93140 | 6-9 |
| LED18ET8/G/4/830 | 35767 | 6-9 |
| LED18ET8/G/4/835 | 35768 | 6-9 |
| LED18ET8/G/4/840 | 35769 | 6-9 |
| LED18ET8/G/4/850 | 35772 | 6-9 |
| LED18ET8/G/4/865 | 35773 | 6-9 |
| LED18P30LW83015 | 75089 | 6-6 |
| LED18P30LW83025 | 75091 | 6-6 |
| LED18P30LW93015 | 75065 | 6-6 |
| LED18P30LW93025 | 75078 | 6-6 |
| LED18T8/3/835 | 82343 | 6-10 |
| LED18T8/3/840 | 82345 | 6-10 |
| LED18T8/3/850 | 82346 | 6-10 |
| LED18T8/DR/D2L | 88141 | 6-11 |
| LED18T8/DR/D4L | 88139 | 6-11 |
| LED18T8/DR/UN/2L | 82347 | 6-11 |
| LED18T8/G/3/830 | 38257 | 6-11 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| LED18T8/G/3/835 | 38258 | 6-11 |
| LED18T8/G/3/840 | 38260 | 6-11 |
| LED18T8/G/3/850 | 38261 | 6-11 |
| LED19GX24q-H/827 | 39289 | 6-8 |
| LED19GX24q-H/830 | 39282 | 6-8 |
| LED19GX24q-H/835 | 39276 | 6-8 |
| LED19GX24q-H/840 | 39283 | 6-8 |
| LED19GX24q-V/827 | 39288 | 6-8 |
| LED19GX24q-V/830 | 39277 | 6-8 |
| LED19GX24q-V/835 | 39275 | 6-8 |
| LED19GX24q-V/840 | 39279 | 6-8 |
| LED1GU10/NFL/CD | 73153 | 6-5 |
| LED21T8/4/835 | 94381 | 6-10 |
| LED21T8/4/840 | 94382 | 6-10 |
| LED21T8/4/850 | 94383 | 6-10 |
| LED21T8/4/865 | 26059 | 6-10 |
| LED21T8/DR/1L | 94384 | 6-11 |
| LED21T8/DR/2L | 94385 | 6-11 |
| LED21T8/DR/D2L | 60041 | 6-11 |
| LED21T8/DR/D4L | 62030 | 6-11 |
| LED21T8/DR/VLC2L | 34016 | 6-11 |
| LED21T8/G/4/835 | 62428 | 6-10 |
| LED21T8/G/4/840 | 62485 | 6-10 |
| LED21T8/G/4/850 | 62487 | 6-10 |
| LED21T8/G/4/830US | 91475 | 6-10 |
| LED21T8/G/4/835HL | 62406 | 6-10 |
| LED21T8/G/4/835US | 91496 | 6-10 |
| LED21T8/G/4/840HL | 62407 | 6-10 |
| LED21T8/G/4/840US | 91497 | 6-10 |
| LED21T8/G/4/850HL | 62408 | 6-10 |
| LED21T8/G/4/850US | 91498 | 6-10 |
| LED22A50/150/5KB | 92120 | 6-4 |
| LED22A50/150/827 | 73378 | 6-4 |
| LED26DP385-FL/TP | 68181 | 6-7 |
| LED26DP385830/12 | 68183 | 6-7 |
| LED26DP385830/25 | 68184 | 6-7 |
| LED26DP385830/40 | 68185 | 6-7 |
| LED26DP385835/12 | 33647 | 6-7 |
| LED26DP385835/40 | 70591 | 6-7 |
| LED26DP385840/40 | 68182 | 6-7 |
| LED28P385830/15 | 15139 | 6-7 |
| LED28P385830/25 | 25844 | 6-7 |
| LED28P385830/40 | 25953 | 6-7 |
| LED36T5/G/4/830 | 91973 | 6-11 |
| LED36T5/G/4/835 | 91976 | 6-11 |
| LED36T5/G/4/840 | 91977 | 6-11 |
| LED36T5/G/4/850 | 91997 | 6-11 |
| LED36T5/G/4/865 | 92006 | 6-11 |
| LED36T8/DR/D2L | 63126 | 6-11 |
| LED36T8/DR/D4L | 92013 | 6-11 |
| LED36T8/G/8/830 | 62326 | 6-10 |
| LED36T8/G/8/835 | 62327 | 6-10 |
| LED36T8/G/8/840 | 62329 | 6-10 |
| LED36T8/G/8/850 | 62349 | 6-10 |
| LED3A15BLUE | 92125 | 6-3 |
| LED3A15GREEN | 92126 | 6-3 |
| LED3A15ORNG | 23054 | 6-3 |
| LED3A15PINK | 92132 | 6-3 |
| LED3A15RED | 92122 | 6-3 |
| LED3DCAC-C/TP | 68166 | 6-3 |
| LED3DCAC-V | 75915 | 6-3 |
| LED3DCAM-C/TP | 68168 | 6-3 |
| LED3DCAM-V | 75914 | 6-3 |
| LED3DST19-V | 76018 | 6-3 |
| LED4.5DA15C-FRIG | 83645 | 6-3 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| LED4D/GU10/NFLTP | 89020 | 6-5 |
| LED4D/GU1083035 | 37114 | 6-5 |
| LED4D/P16/NFLTP | 26383 | 6-5 |
| LED4DA15-C3/827 | 34051 | 6-3 |
| LED4DA15-W3/827 | 34038 | 6-3 |
| LED4DCAC-C3/827 | 21231 | 6-3 |
| LED4DCAC-C3/850 | 69109 | 6-3 |
| LED4DCAC-F/TP | 68165 | 6-3 |
| LED4DCACCF/824 | 75553 | 6-3 |
| LED4DCAM-C3/827 | 21250 | 6-3 |
| LED4DCAM-C3/850 | 69111 | 6-3 |
| LED4DCAM-F/TP | 68167 | 6-3 |
| LED4DCAMCF/824 | 75554 | 6-3 |
| LED4DG16C-C/TP | 68170 | 6-3 |
| LED4DG16C-W/TP | 68169 | 6-3 |
| LED4DG25M-C/TP | 68172 | 6-3 |
| LED4DG25M-W/TP | 68171 | 6-3 |
| LED4GU10/NFL/TP | 75865 | 6-5 |
| LED5.5DMR1682735 | 35540 | 6-5 |
| LED5.5DMR1683035 | 35535 | 6-5 |
| LED5.5DMR1684035 | 35542 | 6-5 |
| LED5.5LS3/827 | 66256 | 6-4 |
| LED5.5LS3/850 | 75177 | 6-4 |
| LED5DG25-W3/827 | 21253 | 6-3 |
| LED5DST19-V-OT2P | 33025 | 6-3 |
| LED5GU10/NFL/TP | 62909 | 6-5 |
| LED60/2M175/740 | 43263 | 6-8 |
| LED60/2M175/750 | 88107 | 6-8 |
| LED6D/GU10/NFL/TP | 26346 | 6-5 |
| LED6D/P16/NFLTP | 26384 | 6-5 |
| LED6DA19/827 | 69115 | 6-3 |
| LED6DA19/830 | 69118 | 6-3 |
| LED6DA19/840 | 69132 | 6-3 |
| LED6DA19/850 | 69144 | 6-3 |
| LED6LS3/828 | 35517 | 6-4 |
| LED6LS3/850 | 35519 | 6-4 |
| LED7DA19/824 | 34238 | 6-3 |
| LED7DA19/827 | 11332 | 6-3 |
| LED7DA19/830 | 71208 | 6-3 |
| LED7DAV3/5K | 95928 | 6-3 |
| LED7DAV3/5K/ | 89944 | 6-3 |
| LED7DAV3/827W | 14063 | 6-3 |
| LED7DCAC-C3/827 | 21233 | 6-3 |
| LED7DCAM-C3/827 | 21251 | 6-3 |
| LED7DG25-W3/827 | 21255 | 6-3 |
| LED7DMR16D830/25 | 69920 | 6-5 |
| LED7DMR16S830/15 | 93412 | 6-5 |
| LED7DMR16S840/15 | 93433 | 6-5 |
| LED7DMRX15827/15 | 35529 | 6-5 |
| LED7D0202NFL-OD | 92163 | 6-5 |
| LED7DP202NFL5KOD | 21282 | 6-5 |
| LED7DP203B827/20 | 93349 | 6-6 |
| LED7DP203B827/35 | 93354 | 6-6 |
| LED7DP203B830/20 | 93327 | 6-5 |
| LED7DP203NFL5KTP | 92121 | 6-5 |
| LED7DP203W/NFLTP | 74374 | 6-5 |
| LED7DP203W827/20 | 93360 | 6-6 |
| LED7DP203W827/35 | 93362 | 6-6 |
| LED7DP203W830/20 | 93347 | 6-5 |
| LED7DP203W830/35 | 93348 | 6-6 |
| LED7DR20/827 | 38268 | 6-4 |
| LED7DR20/830 | 43233 | 6-4 |
| LED7DR20/850 | 38273 | 6-4 |
| LED7MRX16R930/10 | 21359 | 6-5 |
| LED7XDMR16-28325 | 35543 | 6-5 |

| Description | Order Code | Page Number |
|---------------------|------------|-------------|
| LED7XDMR16-28335 | 35544 | 6-5 |
| LED7XDMR16-V2725 | 39542 | 6-5 |
| LED7XDMR16-V2735 | 39567 | 6-5 |
| LED7XDMR16D/TP | 89947 | 6-5 |
| LED7XDMRX1682725 | 35206 | 6-5 |
| LED7XDMRX1682735 | 35214 | 6-5 |
| LED7XDMRX1683025 | 35196 | 6-5 |
| LED7XDMRX1683025 | 35195 | 6-5 |
| LED80/2M250/740 | 43258 | 6-8 |
| LED80/2M250/750 | 88099 | 6-8 |
| LED8ET8/G/2/830 | 35775 | 6-10 |
| LED8ET8/G/2/835 | 35776 | 6-10 |
| LED8ET8/G/2/840 | 35778 | 6-10 |
| LED8ET8/G/2/850 | 35779 | 6-10 |
| LED9ET8/2/830 | 31557 | 6-9 |
| LED9ET8/2/835 | 26635 | 6-9 |
| LED9ET8/2/840 | 26648 | 6-9 |
| LED9ET8/2/850 | 26676 | 6-9 |
| LED9LS3/827 | 75184 | 6-4 |
| LED9LS3/850 | 75588 | 6-4 |
| LED9T8/2/835 | 65706 | 6-10 |
| LED9T8/2/840 | 65707 | 6-10 |
| LED9T8/2/850 | 65711 | 6-10 |
| LED9T8/2/865 | 92997 | 6-10 |
| LED9T8/DR/UN/2L | 93100 | 6-11 |
| LED9T8/G/2/830 | 38933 | 6-11 |
| LED9T8/G/2/835 | 38935 | 6-11 |
| LED9T8/G/2/840 | 38936 | 6-11 |
| LED9T8/G/2/850 | 38939 | 6-11 |
| LED9T8/G/2/865 | 38943 | 6-11 |
| LU100/CP | 26427 | 3-16 |
| LU100/D/H/ECO | 72606 | 3-16 |
| LU100/D/MED/ECO | 13251 | 3-16 |
| LU100/ECO/NC | 14673 | 3-17 |
| LU100/H/ECO | 85369 | 3-16 |
| LU100/MED/CP | 26423 | 3-16 |
| LU100/MED/ECO | 13250 | 3-16 |
| LU100/SBY/XL/ECO | 61368 | 3-16 |
| LU1000/ECO | 44058 | 3-16 |
| LU1000/SBY/XL | 27185 | 3-17 |
| LU150/100ED28 | 44243 | 3-15 |
| LU150/55/CP | 26429 | 3-16 |
| LU150/55/D/H/ECO | 85380 | 3-16 |
| LU150/55/ECO/NC | 40390 | 3-17 |
| LU150/55/H/ECO | 85371 | 3-16 |
| LU150/55/SBY/XL/ECO | 61369 | 3-16 |
| LU150/D/MED/ECO | 13253 | 3-16 |
| LU150/MED/CP | 26424 | 3-16 |
| LU150/MED/ECO | 13252 | 3-16 |
| LU200/ECO/NC | 45059 | 3-17 |
| LU200/H/ECO | 85372 | 3-16 |
| LU200/SBY/XL/ECO | 61370 | 3-16 |
| LU250/CP | 26430 | 3-16 |
| LU250/D/H/ECO | 85381 | 3-16 |
| LU250/ECO/NC | 14674 | 3-17 |
| LU250/H/ECO | 85377 | 3-16 |
| LU250/SBY/XL/ECO | 61371 | 3-17 |
| LU310/H/ECO | 76996 | 3-16 |
| LU35/MED/CP | 26420 | 3-15 |
| LU35/MED/ECO | 11668 | 3-15 |
| LU400/CP | 26431 | 3-16 |
| LU400/D/H/ECO | 76998 | 3-16 |
| LU400/ECO/NC | 14675 | 3-17 |
| LU400/H/ECO | 85379 | 3-16 |
| LU400/SBY/XL | 19272 | 3-16 |

| Description | Order Code | Page Number |
|--------------------|------------|-------------|
| LU400/SBY/XL/ECO | 61372 | 3-17 |
| LU400/XOPSL/T/40 | 41845 | 3-17 |
| LU50/D/H/E/ECO | 45006 | 3-15 |
| LU50/D/MED/ECO | 11347 | 3-15 |
| LU50/H/ECO | 44975 | 3-15 |
| LU50/MED/CP | 26421 | 3-15 |
| LU50/MED/ECO | 11345 | 3-15 |
| LU600/T | 27187 | 3-15 |
| LU600/XOPSL/T/40 | 41850 | 3-17 |
| LU70/CP | 26426 | 3-16 |
| LU70/D/H/ECO | 72605 | 3-16 |
| LU70/D/MED/ECO | 11340 | 3-16 |
| LU70/ECO/NC | 14672 | 3-17 |
| LU70/H/ECO | 85368 | 3-16 |
| LU70/MED/CP | 26422 | 3-16 |
| LU70/MED/ECO | 11339 | 3-16 |
| LU70/SBY/XL/ECO | 61367 | 3-16 |
| LU750 | 14682 | 3-15 |
| LU750/400PSL/T40 | 76134 | 3-17 |
| LU750/XOPSL/T/40 | 41856 | 3-17 |
| M1000/827/W/G4 | 19192 | 6-12 |
| M1000/830/W/G4 | 19193 | 6-12 |
| M1000/835/W/G4 | 19195 | 6-12 |
| M1000/840/W/G4 | 19197 | 6-12 |
| M1000/930/W/G4 | 19196 | 6-12 |
| M1500/827/W/G4 | 19198 | 6-12 |
| M1500/830/W/G4 | 19200 | 6-12 |
| M1500/835/W/G4 | 19201 | 6-12 |
| M1500/840/W/G4 | 19207 | 6-12 |
| M1500/930/W/G4 | 19202 | 6-12 |
| M2000/827/W/G4 | 19209 | 6-12 |
| M2000/830/W/G4 | 19210 | 6-12 |
| M2000/835/W/G4 | 19211 | 6-12 |
| M2000/840/W/G4 | 19215 | 6-12 |
| M2000/930/W/G4 | 19214 | 6-12 |
| M3000/827/W/G4 | 19216 | 6-12 |
| M3000/830/W/G4 | 19218 | 6-12 |
| M3000/835/W/G4 | 19220 | 6-12 |
| M3000/840/W/G4 | 19225 | 6-12 |
| M3000/930/W/G4 | 19224 | 6-12 |
| M4500/827/W/G4 | 19226 | 6-12 |
| M4500/830/W/G4 | 19230 | 6-12 |
| M4500/835/W/G4 | 19231 | 6-12 |
| M4500/840/W/G4 | 19337 | 6-12 |
| M4500/930/W/G4 | 19307 | 6-12 |
| MACC07HOLDBERB | 78835 | 6-13 |
| MACC07HOLDBERW | 61450 | 6-13 |
| MH100-3A, MH350-1A | 75440 | 18-59 |
| MH750-1B | 75441 | 18-59 |
| MHOLDERB/PVC600 | 66232 | 6-13 |
| MHOLDERW/PVC600 | 66233 | 6-13 |
| MP30/827/W/N | 98471 | 6-12 |
| MP30/830/W/N | 98472 | 6-12 |
| MP30/840/W/N | 98474 | 6-12 |
| MP30/930/W/N | 98473 | 6-12 |
| MPR100/VBU/HO/O | 41433 | 3-15 |
| MPR175/C/VBU/O | 11649 | 3-14 |
| MPR175/VBU/O | 49470 | 3-14 |
| MPR175/VBU/PA/O | 61325 | 3-14 |
| MPR250/C/VBU/O | 11650 | 3-14 |
| MPR250/VBU/O | 49471 | 3-14 |
| MPR250/VBU/PA/O | 61326 | 3-14 |
| MPR320C/PA/ED28 | 19609 | 3-15 |
| MPR320/VBU/XHOPA | 46275 | 3-15 |
| MPR320C/VBUXHOPA | 46276 | 3-15 |

Index (cont.)

| Description | Order Code | Page Number |
|---------------------|------------|-------------|
| MPR350/C/VBU/PA | 48824 | 3-15 |
| MPR350/VBU/PA | 10202 | 3-15 |
| MPR350C/VBU3K/PA | 48825 | 3-15 |
| MPR360CVBUXMH/O | 11685 | 3-15 |
| MPR360VBUWM/HO/O | 40056 | 3-15 |
| MPR400/VBU/HO/O | 18708 | 3-15 |
| MPR400/VBU/XHOPA | 46273 | 3-15 |
| MPR400C/VBU/HO/O | 13582 | 3-15 |
| MPR400C/VBUXHOPA | 46274 | 3-15 |
| MVR100/C/U/MED | 12653 | 3-12 |
| MVR100/U/MED | 12652 | 3-12 |
| MVR1000/C/U | 41827 | 3-13 |
| MVR1000/U | 41826 | 3-13 |
| MVR1000/U/BT37 | 18205 | 3-13 |
| MVR1000/VBU/HO | 44835 | 3-14 |
| MVR1000U/BT37/PA | 10389 | 3-13 |
| MVR150/C/U/MED | 12604 | 3-12 |
| MVR150/C/U/WM | 13490 | 3-13 |
| MVR150/U/MED | 12598 | 3-12 |
| MVR150/U/WM | 13481 | 3-13 |
| MVR1500/U/SPORTS | 47326 | 3-14 |
| MVR1650/HOR | 25532 | 3-14 |
| MVR175/C/HOR | 18105 | 3-13 |
| MVR175/C/U | 47761 | 3-13 |
| MVR175/C/U/MED | 19976 | 3-13 |
| MVR175/C/VBU/PA | 12633 | 3-12 |
| MVR175CVBUMEDPA | 12637 | 3-12 |
| MVR175/PAR38/FL1 | 25218 | 3-13 |
| MVR175/SP30/U | 17634 | 3-13 |
| MVR175/U | 47760 | 3-13 |
| MVR175/U/CP | 26433 | 3-13 |
| MVR175/U/MED | 18902 | 3-13 |
| MVR175/U/MED/CP | 26432 | 3-13 |
| MVR175/VBU/MEDPA | 12636 | 3-12 |
| MVR175/VBU/PA | 12622 | 3-12 |
| MVR250/C/HOR | 18103 | 3-14 |
| MVR250/C/U | 42731 | 3-13 |
| MVR250/C/VBU/PA | 26319 | 3-12 |
| MVR250/C/VBU/R | 12769 | 3-15 |
| MVR250/HOR | 18101 | 3-14 |
| MVR250/HOR/PA | 72882 | 3-12 |
| MVR250/SP30/U | 17633 | 3-13 |
| MVR250/U | 42729 | 3-13 |
| MVR250/U/CP | 26434 | 3-13 |
| MVR250/U/PA | 78665 | 3-12 |
| MVR250/VBU/PA | 26317 | 3-12 |
| MVR250/VBU/R | 12762 | 3-15 |
| MVR320/C/VBU/XHO/PA | 45669 | 3-12 |
| MVR320C/VBUHOPA | 27502 | 3-12 |
| MVR320/HOR/PA | 72884 | 3-12 |
| MVR320/VBU/HO/PA | 27501 | 3-12 |
| MVR320VBU/XHO/PA | 45666 | 3-12 |
| MVR350CVBUXHOPAE | 23738 | 3-12 |
| MVR350VBUXHOPAE | 23729 | 3-12 |
| MVR360/U/WM/HO | 13495 | 3-13 |
| MVR360C/VBUWMXHO | 40055 | 3-14 |
| MVR360VBU/WM/XHO | 40053 | 3-14 |
| MVR400C/HOR/MOG | 26219 | 3-14 |
| MVR400/C/U | 43829 | 3-13 |
| MVR400C/U/ED28 | 19979 | 3-13 |
| MVR400C/VBU/R | 12772 | 3-15 |
| MVR400C/VBU/XHO | 13924 | 3-14 |
| MVR400CVBUXHOPA | 12644 | 3-12 |
| MVR400/HOR/BT28 | 40201 | 3-14 |
| MVR400/HOR/ED28/PA | 72885 | 3-13 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| MVR400/HOR/MOG | 26218 | 3-14 |
| MVR400/HOR/PA | 72886 | 3-12 |
| MVR400/SP30/U | 17632 | 3-13 |
| MVR400/U | 43828 | 3-13 |
| MVR400/U/CP | 26435 | 3-13 |
| MVR400/U/ED28 | 18904 | 3-13 |
| MVR400/U/ED28/R | 26851 | 3-15 |
| MVR400/U/PA | 78666 | 3-12 |
| MVR400/VBU/HO | 49657 | 3-14 |
| MVR400/VBU/HO/PA | 45664 | 3-12 |
| MVR400/VBU/R | 12770 | 3-15 |
| MVR400/VBU/XHO | 13923 | 3-14 |
| MVR400/VBU/XHOPA | 12642 | 3-12 |
| MVR400/VBUED28HO | 40335 | 3-14 |
| MVR400/VBUED28PA | 46271 | 3-13 |
| MVR400CVBUED28PA | 46272 | 3-13 |
| MVR400SP30VBU/HO | 20931 | 3-14 |
| MVR400VBD/XHO/PA | 46632 | 3-12 |
| MVR70/C/U/MED | 12594 | 3-12 |
| MVR70/U/MED | 12590 | 3-12 |
| MVR750/C/VBU/PA | 45560 | 3-13 |
| MVR750/VBU/PA | 27219 | 3-13 |
| MXR100/C/U/MED | 18679 | 3-12 |
| MXR100C/U/MED/O | 12579 | 3-14 |
| MXR100/U/MED | 18680 | 3-12 |
| MXR100/U/MED/O | 12381 | 3-14 |
| MXR150C/U/MED | 22936 | 3-12 |
| MXR150C/U/MED/O | 45688 | 3-14 |
| MXR150/U/MED | 22935 | 3-12 |
| MXR150/U/MED/O | 45683 | 3-14 |
| MXR175C/VBU/PA | 11185 | 3-12 |
| MXR50/C/U/MED | 10364 | 3-12 |
| MXR50C/U/MED/O | 45671 | 3-14 |
| MXR50/U/MED | 10361 | 3-12 |
| MXR50/U/MED/O | 45670 | 3-14 |
| MXR70C/U/MED | 22162 | 3-12 |
| MXR70C/U/MED/O | 12577 | 3-14 |
| MXR70/U/MED | 22158 | 3-12 |
| MXR70/U/MED/O | 12377 | 3-14 |
| NH LED 200 | 69822 | 8-13 |
| NH LED 200 RECT | 69822 | 8-9 |
| NH LED 4.5" RND | 69823 | 8-13 |
| NH LED 4.5" RND | 69823 | 8-9 |
| NH LED 7" RND | 69821 | 8-13 |
| NH LED 7" RND | 69821 | 8-9 |
| OP10-45/WFL100B | 98491 | 6-13 |
| OP10-45/WFL100W | 98485 | 6-13 |
| OP10/15/WFL/100W | 98483 | 6-13 |
| OP1000/1500/FL/B | 65294 | 6-13 |
| OP3000/WFL/B | | |
| OP1000/1500/FL/W | 97208 | 6-13 |
| OP3000/WFL/W | | |
| OP1000/1500/WFL | 97207 | 6-13 |
| OP1000/1500/WFL | 97206 | 6-13 |
| OP1000/1500/WFLB | 65295 | 6-13 |
| OP1000/1500WFLB | 65296 | 6-13 |
| OP1000/SP/W | 97204 | 6-13 |
| OP10001500FL100B | 98486 | 6-13 |
| OP10001500FL100W | 98480 | 6-13 |
| OP10001500WFL50B | 99996 | 6-13 |
| OP10001500WFL50W | 99995 | 6-13 |
| OP1500/SP/W | 97205 | 6-13 |
| OP20-45/WFL/100B | 98490 | 6-13 |
| OP20-45/WFL/100W | 98484 | 6-13 |
| OP2000/3000/FL | 64996 | 6-13 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| OP2000/3000/FL/B | 65297 | 6-13 |
| OP2000/3000/WFL | 64994 | 6-13 |
| OP2000/3000WFLB | 65301 | 6-13 |
| OP2000/FL/100/B | 98487 | 6-13 |
| OP2000/FL/100/W | 98481 | 6-13 |
| OP2000/WFL | 64995 | 6-13 |
| OP2000/WFL/B | 65298 | 6-13 |
| OP30/SP/100MM/B | 98476 | 6-13 |
| OP30/SP/100MM/W | 98478 | 6-13 |
| OP30/SP/50MM/B | 94638 | 6-13 |
| OP30/SP/50MM/W | 94637 | 6-13 |
| OP30/SP/75MM/B | 98475 | 6-13 |
| OP30/SP/75MM/G2B | 94636 | 6-13 |
| OP30/SP/75MM/G2W | 94635 | 6-13 |
| OP30/SP/75MM/W | 98477 | 6-13 |
| OP30/SP100MM/G2B | 94634 | 6-13 |
| OP30/SP100MM/G2W | 94633 | 6-13 |
| OP30004500FL100B | 98488 | 6-13 |
| OP30004500FL100W | 98482 | 6-13 |
| P21/4W | 27561 | 8-30 |
| P21/5W | 23303 | 8-30 |
| P21/5W LL | 21274 | 8-30 |
| P21/5W NH | 89246 | 8-30 |
| P21/5W/BP2 | 23303 | 8-16 |
| P21/5WLL | 67894 | 8-30 |
| P21W | 23306 | 8-30 |
| P21W 24V | 40778 | 8-30 |
| P21W LL | 20695 | 8-30 |
| P21W LL | 67896 | 8-30 |
| P21W NH | 89247 | 8-30 |
| P21W/BP2 | 23306 | 8-16 |
| PC168 | 27222 | 8-30 |
| PC194 | 27221 | 8-30 |
| PCD-IN-SA | 65368 | 21-4 |
| PLK 1 UNIT | 44848 | 1-19 |
| PR12 | 25252 | 8-30 |
| PR13 | 12681 | 8-30 |
| PR18 | 25289 | 8-30 |
| PR2 | 12675 | 8-30 |
| PR3 | 12676 | 8-30 |
| PR4 | 12677 | 8-30 |
| PR6 | 25222 | 8-30 |
| PR7 | 25235 | 8-30 |
| PY21W | 41370 | 8-30 |
| Q1000PAR64/WFL | 43499 | 7-8 |
| Q1000PAR64MFL | 43498 | 2-13 |
| Q1000PAR64MFL | 43498 | 7-8 |
| Q1000PAR64NSP | 43497 | 2-13 |
| Q1000PAR64NSP | 43497 | 7-8 |
| Q1000PAR64WFL | 43499 | 2-13 |
| Q1000T3/CL-6PK | 43711 | 2-12 |
| Q1000T3/CL-6PK | 43712 | 2-12 |
| Q100CL/DC | 15508 | 2-11 |
| Q100CL/DC/2V | 44386 | 2-11 |
| Q100CL/MC | 15507 | 2-13 |
| Q100CL/MC/2V | 44385 | 2-13 |
| Q100CL/MC/CD 5PK | 19383 | 2-13 |
| Q100DC | 16451 | 2-11 |
| Q100G8/SCD | 97667 | 2-11 |
| Q100MC | 16452 | 2-13 |
| Q100T3/12V/CL | 34676 | 2-11 |
| Q100T3/24V/CL | 34663 | 2-11 |
| Q100T3/CL/CD 5PK | 22489 | 2-12 |
| Q100T3/SCD-5PK | 73286 | 2-12 |
| Q10T3/CL | 34674 | 2-10 |

| Description | Order Code | Page Number |
|--------------------|------------|-------------|
| Q10T3/CL/SCD-5PK | 97668 | 2-10 |
| Q12MT26/4CL | 48770 | 7-8 |
| Q12MT26/4CL | 48771 | 7-8 |
| Q12MT26/4CL | 48779 | 7-8 |
| Q1500T3/CL | 23830 | 2-12 |
| Q1500T3/CL | 23832 | 2-12 |
| Q1500T3/CL-12PK | 23826 | 2-12 |
| Q1500T3/CL-12PK | 23828 | 2-12 |
| Q150CL/DC | 43693 | 2-11 |
| Q150CL/DC/2V | 44384 | 2-11 |
| Q150CL/MC | 43694 | 2-13 |
| Q150CL/MC/CD 5PK | 19386 | 2-13 |
| Q150DC | 44653 | 2-11 |
| Q150MC | 44654 | 2-13 |
| Q150T3/117/CL/CD | 27449 | 2-12 |
| Q150T3/CL/CD 5PK | 19378 | 2-12 |
| Q150T3/HD/SCD2-5PK | 73287 | 2-12 |
| Q200T4/CL | 40702 | 2-13 |
| Q20A/PAR56/1/C | 15485 | 2-14 |
| Q20A/PAR56/2 | 32861 | 2-14 |
| Q20A/PAR56/3 | 23863 | 2-14 |
| Q20A/PAR56/C | 15482 | 2-14 |
| Q20GU10/FL/CD | 16753 | 2-10 |
| Q20MR11/NFL30 | 30773 | 2-10 |
| Q20MR16/C/NSP15 | 20815 | 2-9 |
| Q20MR16/C/VNSP7 | 20816 | 2-9 |
| Q20MR16/FL | 25480 | 2-10 |
| Q20MR16/FL-PQ3/6 | 85289 | 2-10 |
| Q20MR16/LAND-CD | 71485 | 2-8 |
| Q20MR16/SP | 25481 | 2-10 |
| Q20MR16/SP-PQ3/6 | 85290 | 2-10 |
| Q20MR16C/CG15ESX | 20858 | 2-9 |
| Q20MR16C/CG40BAB | 20857 | 2-9 |
| Q20MR16C/FL40 | 20814 | 2-9 |
| Q20MR16CGFLCD-BA | 81763 | 2-10 |
| Q20MR16CGSPCD-BA | 81765 | 2-10 |
| Q20MR16HIR/CCG10 | 77900 | 2-9 |
| Q20MR16HIR/CCG24 | 77901 | 2-9 |
| Q20MR16HIR/CCG35 | 77902 | 2-9 |
| Q20T2.5/12V/CL | 34715 | 2-10 |
| Q20T3/CL/SCD-5PK | 97669 | 2-10 |
| Q20T3/LAND-CD2 | 71495 | 2-8 |
| Q24MT32/4CL | 48776 | 7-8 |
| Q24MT32/4CL | 48777 | 7-8 |
| Q250CL/DC | 43697 | 2-12 |
| Q250CL/DC | 43698 | 2-12 |
| Q250CL/MC | 43699 | 2-13 |
| Q250CL/MC | 43700 | 2-13 |
| Q250DC | 43701 | 2-11 |
| Q250DC | 43702 | 2-11 |
| Q250MC | 43695 | 2-13 |
| Q250MC | 43696 | 2-13 |
| Q250PAR/FL30 | 23718 | 2-5 |
| Q250PAR/SP10 | 23719 | 2-5 |
| Q250T3/CL-6PK | 22865 | 2-12 |
| Q250T3/CL/CD 5PK | 22121 | 2-12 |
| Q25G8/SCD2 | 97664 | 2-11 |
| Q25G9/CD | 16754 | 2-11 |
| Q25G9/F/CD | 81300 | 2-11 |
| Q300T3/CL | 43703 | 7-7 |
| Q300T3/CL-6PK | 43703 | 2-12 |
| Q300T3/CL/CD 5PK | 19379 | 2-12 |
| Q300T3/HD/SCD2 | 97673 | 2-12 |
| Q300T3CL/CD2-5PK | 27447 | 2-12 |
| Q350T3/CL/HIR | 13894 | 2-11 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| Q35G8/CD2 | 48428 | 2-11 |
| Q35GU10/FL/CD | 16752 | 2-10 |
| Q35MR11/CG12 24 | 41483 | 2-10 |
| Q35MR11NFL30(FTH) | 30890 | 2-10 |
| Q35MR11SP20(FTF) | 30774 | 2-10 |
| Q35MR16/C/CG12 | 20864 | 2-9 |
| Q35MR16/C/FL40 | 20825 | 2-9 |
| Q35MR16/C/SP20 | 20826 | 2-9 |
| Q35MR16/CCG40 | 41487 | 2-9 |
| Q35MR16C/CG20 | 20860 | 2-9 |
| Q35MR16C/CG40 | 20859 | 2-9 |
| Q35MR16CGFLCD-BA | 81768 | 2-10 |
| Q35MR16HIR/CCG10 | 77904 | 2-9 |
| Q35MR16HIR/CCG24 | 77905 | 2-9 |
| Q35MR16HIR/CCG35 | 77906 | 2-9 |
| Q35MR16HIR/CCG55 | 79233 | 2-9 |
| Q35T3/12V/CL | 34708 | 2-11 |
| Q35T3/CL/CD 5PK | 48503 | 2-11 |
| Q400CL/MC | 43707 | 2-13 |
| Q400MC | 43706 | 2-13 |
| Q40G9/CD | 16755 | 2-11 |
| Q40G9/F/CD | 81301 | 2-11 |
| Q42MR16/C/VNSP9 | 20830 | 2-9 |
| Q4509 | 22109 | 8-34 |
| Q4554 | 37706 | 8-34 |
| Q4559 | 40579 | 8-34 |
| Q4559X | 42552 | 8-34 |
| Q4566 | 41097 | 8-34 |
| Q4597 | 37372 | 8-34 |
| Q45MR16HIR/CCG10 | 77907 | 2-9 |
| Q45MR16HIR/CCG24 | 77908 | 2-9 |
| Q45MR16HIR/CCG35 | 77909 | 2-9 |
| Q45T4/CL/DCR | 14473 | 2-13 |
| Q4631 | 34537 | 8-34 |
| Q4632 | 39112 | 8-34 |
| Q4681 | 36271 | 8-34 |
| Q500CL/DC | 43710 | 2-12 |
| Q500CL/MC (EVR) | 47950 | 2-13 |
| Q500DC | 43709 | 2-12 |
| Q500PAR56MFL | 43495 | 2-13 |
| Q500PAR56MFL | 43495 | 7-8 |
| Q500PAR56NSP | 43494 | 2-13 |
| Q500PAR56NSP | 43494 | 7-8 |
| Q500PAR56WFL | 43496 | 2-13 |
| Q500PAR56WFL | 43496 | 7-8 |
| Q500T3/CL | 23731 | 2-12 |
| Q500T3/CL | 23733 | 2-12 |
| Q500T3/CL | 23731 | 7-7 |
| Q500T3/CL | 23733 | 7-7 |
| Q500T3/CL/6 | 23744 | 7-7 |
| Q500T3/CL/6-12PK | 23744 | 2-12 |
| Q500T3/CL/CD 5PK | 19382 | 2-12 |
| Q500T3/HD/SCD2 | 97674 | 2-12 |
| Q500T3CL/CD2-5PK | 27448 | 2-12 |
| Q500T8/1CL | 88616 | 2-13 |
| Q50G8/CD | 21941 | 2-11 |
| Q50G8/SCD | 97665 | 2-11 |
| Q50G8/SCD2-PK5 | 72868 | 2-11 |
| Q50GU10/FL/CD | 16751 | 2-10 |
| Q50GU10FL/RVL-CD | 82143 | 2-10 |
| Q50MR16/C/CG15 | 41488 | 2-9 |
| Q50MR16/C/CG40 | 41489 | 2-9 |
| Q50MR16/C/FL40 | 20833 | 2-9 |
| Q50MR16C/NFL25 | 20835 | 2-9 |
| Q50MR16C/NSP15 | 20839 | 2-9 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| Q50MR16/C/WFL55 | 20832 | 2-9 |
| Q50MR16/FL | 25482 | 2-10 |
| Q50MR16/FL-PQ3/6 | 85296 | 2-10 |
| Q50MR16/SP | 25483 | 2-10 |
| Q50MR16/SP-PQ3/6 | 85297 | 2-10 |
| Q50MR16C/CG15 | 20872 | 2-9 |
| Q50MR16C/CG25 | 20871 | 2-9 |
| Q50MR16C/CG40 | 20867 | 2-9 |
| Q50MR16C/CG55 | 20865 | 2-9 |
| Q50MR16C/NFL30 | 20834 | 2-9 |
| Q50MR16CGFLCD-BA | 81770 | 2-10 |
| Q50MR16CGSPCD-BA | 81771 | 2-10 |
| Q50MR16FCCGRV-CD | 82110 | 2-10 |
| Q50MR16SCGRV-CD | 82111 | 2-10 |
| Q50T3/12V/CL | 34702 | 2-11 |
| Q50T3/CL/SCD-5PK | 97670 | 2-11 |
| Q50T3/LAND-CD2 | 71496 | 2-8 |
| Q5551 | 41452 | 8-34 |
| Q5559 | 16784 | 8-34 |
| Q5T3/CL | 42959 | 2-10 |
| Q6.6A PAR56/2 | 38271 | 2-14 |
| Q6.6A PAR56/3 | 33279 | 2-14 |
| Q6.6A/PAR 64/2P | 13224 | 2-14 |
| Q6.6A100PK30d-m | 80584 | 2-13 |
| Q6.6A200PK30d-f | 80590 | 2-13 |
| Q6.6A200PK30d-m | 80586 | 2-13 |
| Q6/6A/PAR56/4 | 18309 | 2-14 |
| Q6/6A/T4/5CL | 23857 | 2-13 |
| Q6/6AT4/DCR | 23860 | 2-14 |
| Q60G9/CD | 16756 | 2-11 |
| Q60G9/F/CD | 81468 | 2-11 |
| Q71MR16/C/CG25 | 20874 | 2-9 |
| Q71MR16/C/CG40 | 20873 | 2-9 |
| Q71MR16/C/FL40 | 20840 | 2-9 |
| Q71MR16C/NFL25 | 20841 | 2-9 |
| Q71MR16C/NSP15 | 20843 | 2-9 |
| Q71MR16C/CG15 | 20876 | 2-9 |
| Q7558 | 22227 | 8-34 |
| Q7558 | 29130 | 8-34 |
| Q7559 | 28113 | 8-34 |
| Q7560 | 28111 | 8-34 |
| Q7561 | 28874 | 8-34 |
| Q75CL/MC/CD | 12715 | 2-13 |
| Q75G8/CD | 47801 | 2-11 |
| Q75G8/SCD | 97666 | 2-11 |
| Q75G9/CD | 16759 | 2-11 |
| Q75G9/F/CD | 81469 | 2-11 |
| Q75T4/CL/CD 5PK | 19377 | 2-11 |
| QH1000T3/CL | 22355 | 2-14 |
| QH1000T3/CL | 22357 | 2-14 |
| QH1200T3/CL | 22531 | 2-14 |
| QH1200T3/CL/HT | 22532 | 2-14 |
| QH1600T3/CL | 22686 | 2-14 |
| QH1600T3/CL | 22688 | 2-14 |
| QH1600T3/CL | 22695 | 2-14 |
| QH1600T3/CL/7 | 22691 | 2-14 |
| QH2.5MT3/CL/HT/R | 28126 | 2-15 |
| QH2500T3/CL | 22838 | 2-14 |
| QH2M/T3/CL/HT | 22790 | 2-15 |
| QH2MT3/1CL/HT/VB | 15551 | 2-15 |
| QH2MT3/CL/HT/R | 12716 | 2-15 |
| QH3650T3/CL/5 | 10872 | 2-14 |
| QH3800T3/CL | 22875 | 2-14 |
| QH3MT3/CL/HT/R | 28127 | 2-15 |
| QH500T3/CL | 21788 | 2-14 |

Index (cont.)

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| QH500T3/CL/7 | 21787 | 2-14 |
| QH6MT3/CL/HT | 23843 | 2-15 |
| R10W | 23322 | 8-30 |
| R5W | 23314 | 8-30 |
| R5WLL | 23765 | 8-30 |
| SDT-WIDE | 63288 | 21-3 |
| SDT-WIDE-D | 63289 | 21-3 |
| SIR-LONG | 63290 | 21-3 |
| SIR-LONG-D | 63291 | 21-3 |
| SIR-WIDE | 63292 | 21-3 |
| SIR-WIDE-D | 63293 | 21-3 |
| SL-SS/TP | 64825 | 15-6 |
| SPL1000/PAR64/HR | 88513 | 3-14 |
| SPL1000/PAR64840 | 88514 | 3-14 |
| SPL1500/H/652 | 16920 | 3-14 |
| T4W | 23318 | 8-30 |
| TEL/120MB | 12078 | 8-31 |
| TEL/120PSB | 12080 | 8-31 |
| TEL/12PSB | 12760 | 8-30 |
| TEL/24E2 | 29001 | 8-30 |
| TEL/24PSB | 12071 | 8-30 |
| TEL/28MB | 12761 | 8-30 |
| TEL/28PSB | 12072 | 8-30 |
| TEL/48C2 | 29041 | 8-30 |
| TEL/48PSB | 12075 | 8-30 |
| TEL/60MB | 12076 | 8-30 |
| TEL/60PSB | 12077 | 8-30 |
| TEL/6PSB | 12756 | 8-30 |
| USB-0412-12-IP | 88921 | 16-6 |
| W16W | 26353 | 8-31 |
| W16W | 20280 | 8-31 |
| W3W | 27562 | 8-31 |
| W5W | 27563 | 8-31 |
| W5WLL | 67895 | 8-31 |
| WDT-10-DR-G-D-A | 63313 | 21-3 |
| WDT-10-DR-G-D-B | 63315 | 21-3 |
| WDT-10-DR-G-D-G | 63314 | 21-3 |
| WDT-10-DR-G-D-V | 63309 | 21-3 |
| WDT-10-DR-G-D-W | 63308 | 21-3 |
| WDT-10-SR-G-D-A | 63297 | 21-3 |
| WDT-10-SR-G-D-B | 63299 | 21-3 |
| WDT-10-SR-G-D-G | 63298 | 21-3 |
| WDT-10-SR-G-D-V | 63296 | 21-3 |
| WDT-10-SR-G-D-W | 63295 | 21-3 |
| WIR-10-DR-G-D-A | 63346 | 21-3 |
| WIR-10-DR-G-D-B | 63348 | 21-3 |
| WIR-10-DR-G-D-G | 63347 | 21-3 |
| WIR-10-DR-G-D-V | 63345 | 21-3 |
| WIR-10-DR-G-D-W | 63344 | 21-3 |
| WIR-10-LV-A | 63395 | 21-4 |
| WIR-10-LV-B | 63397 | 21-4 |
| WIR-10-LV-G | 63396 | 21-4 |
| WIR-10-LV-V | 63394 | 21-4 |
| WIR-10-LV-W | 63393 | 21-4 |
| WIR-10-RR7-D-A | 63401 | 21-4 |
| WIR-10-RR7-D-B | 63405 | 21-4 |
| WIR-10-RR7-D-G | 63403 | 21-4 |
| WIR-10-RR7-D-V | 63399 | 21-4 |
| WIR-10-RR7-D-W | 63398 | 21-4 |
| WIR-10-SR-C-D-A | 63337 | 21-3 |
| WIR-10-SR-C-D-B | 63339 | 21-3 |
| WIR-10-SR-C-D-G | 63338 | 21-3 |
| WIR-10-SR-C-D-V | 63336 | 21-3 |
| WIR-10-SR-C-D-W | 63335 | 21-3 |
| WIR-10-SR-G-D-A | 63326 | 21-3 |

| Description | Order Code | Page Number |
|-----------------|------------|-------------|
| WIR-10-SR-G-D-B | 63328 | 21-3 |
| WIR-10-SR-G-D-G | 63327 | 21-3 |
| WIR-10-SR-G-D-V | 63325 | 21-3 |
| WIR-10-SR-G-D-W | 63324 | 21-3 |
| WY5W | 20279 | 8-31 |
| | 66957 | 19-10 |
| | 66958 | 19-10 |
| | 68663 | 19-10 |
| | 66969 | 19-11 |
| | 66970 | 19-11 |
| | 66972 | 19-11 |
| | 66960 | 19-12 |
| | 66973 | 19-12 |
| | 68664 | 19-12 |
| | 66975 | 19-13 |
| | 66977 | 19-13 |
| | 66979 | 19-13 |
| | 66978 | 19-14 |
| | 66980 | 19-14 |
| | 68665 | 19-14 |
| | 68666 | 19-15 |
| | 68667 | 19-15 |
| | 68668 | 19-15 |
| | 68663 | 19-16 |
| | 68664 | 19-16 |
| | 68665 | 19-16 |
| | 68670 | 19-17 |
| | 66871 | 19-17 |
| | 66880 | 19-17 |
| | 66872 | 19-18 |
| | 66883 | 19-18 |
| | 66884 | 19-18 |
| | 66902 | 19-19 |
| | 66903 | 19-19 |
| | 66904 | 19-19 |
| | 66885 | 19-20 |
| | 66886 | 19-20 |
| | 66905 | 19-20 |
| | 66887 | 19-21 |
| | 66898 | 19-21 |
| | 66899 | 19-21 |
| | 93861 | 19-22 |
| | 93862 | 19-22 |
| | 66908 | 19-23 |
| | 66910 | 19-23 |
| | 66912 | 19-24 |
| | 66913 | 19-24 |
| | 66914 | 19-25 |
| | 66915 | 19-25 |
| | 66919 | 19-26 |
| | 66921 | 19-26 |
| | 66922 | 19-26 |
| | 66923 | 19-27 |
| | 66925 | 19-27 |
| | 68660 | 19-27 |
| | 66926 | 19-28 |
| | 66927 | 19-28 |
| | 66930 | 19-29 |
| | 66931 | 19-29 |
| | 66936 | 19-3 |
| | 66961 | 19-3 |
| | 66962 | 19-3 |
| | 66937 | 19-4 |
| | 66938 | 19-4 |
| | 66939 | 19-4 |

| Description | Order Code | Page Number |
|-------------|------------|-------------|
| | 66940 | 19-5 |
| | 66943 | 19-5 |
| | 66963 | 19-5 |
| | 66945 | 19-6 |
| | 66946 | 19-6 |
| | 66967 | 19-6 |
| | 66947 | 19-7 |
| | 66948 | 19-7 |
| | 66951 | 19-7 |
| | 66952 | 19-8 |
| | 66953 | 19-8 |
| | 68662 | 19-8 |
| | 66954 | 19-9 |
| | 66955 | 19-9 |
| | 66956 | 19-9 |

Introduction

This latest edition of the GE product catalog has been updated to help you more easily select the GE lighting products that best meet your needs.

Technical data in this catalog (life, lumens, wattage, etc.) are nominal values, subject to manufacturer's tolerances. All technical data in this catalog is based on laboratory tests conducted under controlled conditions. Performance of individual lamps may vary. Because of frequent design improvements, the values listed may not be current ratings. The data and suggested applications should not be taken as representations or warranties as to the suitability of any product for a particular application. Technical bulletins may be issued from time to time if changes in ratings occur prior to the next catalog printing.

Technical Support

1-800-GE LAMPS
1-888-GE BALLAST
 (1-888-432-2552)

For the most up-to-date, comprehensive product information, visit the GE Lighting website at www.gelighting.com.

| | |
|--|------------|
| Introduction/Overview to Lamps and Ballasts | A |
| Quick Reference Lamp to Ballast Selection Guide..... | B |
| Quick Reference Ballast Selection Guide..... | C |
| Incandescent Lamps | Section 1 |
| Halogen Lamps | Section 2 |
| High Intensity Discharge Lamps..... | Section 3 |
| Fluorescent Lamps | Section 4 |
| Compact Fluorescent Lamps..... | Section 5 |
| LED Lamps, Tubes and Modules..... | Section 6 |
| Stage and Studio Lamps..... | Section 7 |
| Miniature, Sealed Beam and Automotive Lamps | Section 8 |
| Projection Lamps | Section 9 |
| Ballasts: T8 Instant Start..... | Section 10 |
| Ballasts: T8 Programmed Start | Section 11 |
| Ballasts: T8/T5 Dimming | Section 12 |
| Ballasts: T5 Electronic Programmed Start | Section 13 |
| Ballasts: T12 Electronic and High Output | Section 14 |
| Ballasts: Magnetic | Section 15 |
| Ballasts: Sign | Section 16 |
| Ballasts: Compact Fluorescent..... | Section 17 |
| Ballasts: HID Electronic and Electromagnetic..... | Section 18 |
| LED Drivers and Halogen Transformers..... | Section 19 |
| LED Systems | Section 20 |
| Controls | Section 21 |
| Appendix/Glossary | Section D |
| Product Warranty Information | Section E |
| Index..... | Section F |



imagination at work

Introduction

GE
Lighting

Leading the way to environmental excellence

Learn how these top 3 environmental impacts affect your business

Today, with so much environmental data in the market place, it's hard to differentiate which imperatives positively affect your business. For instance, a longer lamp life may be environmentally preferable compared to shorter life lamps.

GE is focused on today's most pressing environmental challenges, such as energy efficiency, longer life products and lamp recycling.

Energy Efficiency

Increasing the energy efficiency of the lighting system has a large effect on reducing the overall environmental impact and reduces energy bills.

Reduction of greenhouse gas emissions and energy use is important to business. GE offers you energy efficient systems to reduce your energy consumption and subsequently your GHG emissions.

To learn how to reduce energy costs by using GE products, go to www.gelighting.com/environmental

Long Life

Increasing lamp life and therefore reducing the number of lamps made, transported and recycled, also has a large effect on reducing environmental impact.

To view GE's large range of long life and energy efficient products, go to www.gelighting.com and click on "Products."

Recycling

GE recommends recycling fluorescent lamps at the end of life. Recycling recovers lamp materials, including mercury, for reuse.

To learn more about GE's recycling resources, go to www.gelighting.com/environmental



Ballasts

EcomaginationSM is GE's commitment to create products that help our customers improve their environmental and operating performance. GE's UltraStart[®] T5 and T8 programmed start and GE UltraMax[®] Instant Start ballasts are among the highest energy-efficient ballasts available and contribute to significant reductions in energy consumption and the curbing of greenhouse gas emissions.

Conformance Directive

The restriction of Hazardous Substances (RoHS) is a European directive that restricts six hazardous materials in consumer products:

- Lead
- Mercury
- Cadmium
- Hexavalent chromium
- PBB flame retardants
- PBDE flame retardants

GE electronic ballast options meet the material restriction requirements of RoHS relating to those substances.

UltraMax[®] Professional Series

Introducing our premium, highest efficiency Instant Start ballasts. The P series is comprised of new micro cans that are the smallest in the industry and allow for lightweight retrofits and compact design. The new P series will effectively remote start energy efficient lamps up to 18 feet and have improved UL Type CC anti-arcing protection and double the surge protection for the high ballast factor category.



UltraStart[®] Electronic Ballast

UltraStart[®] ballasts are a family of high-efficiency GE Program Start (see page 10-2) electronic linear fluorescent ballasts designed to optimize GE's T8 and T5 Ultra lamps in frequently switched applications. Instant Start ballasts provide approximately 10,000 starts before 50% of lamp failure. UltraStart[®] provides greater than 100,000 starts. UltraStart[®] have the equivalent energy savings and convenience of instant start ballasts but with the long lamp life of a programmed start ballast. UltraStart[®] T8 L, N and H ballasts exceed 90% efficiency and the NEMA Premium[®] ballast program minimum efficiency requirements.

UltraMax[®] General Series

Offering more than 90 percent energy efficiency, the UltraMax[®] G series electronic ballast is designed for all-purpose, long-burn operations. Focusing on the needs of our customers, we've constructed these high-efficiency ballasts to offer cutting-edge technologies for low temperature starting and anti-striation control. With an ambient temperature rating of 104°F, the UltraMax[®] G series is ideal for general applications.



Introduction



UltraMax® T8 Electronic Ballast



UltraStart® T8 Electronic Ballast

Compact Fluorescent Lamp (CFL)

CFLs are single-ended T4 and T5 lamps that are bent to form a compact shape. Screw-in CFLs have an integral ballast with a screw base for easy replacement of incandescent lamps. GE offers multi-voltage, multi-lamp and multi-entry ballasts for a wide range of CFL plug-in lamps. Multivolt ProLine® CFL ballasts are designed for plug-in lamps so that a ballast will survive over the useful life of approximately 3-to-4 lamp lives.



Multivolt ProLine® CFL Ballast

Electromagnetic Ballast (Magnetic Ballast)

Primarily used for T12 lamps. These ballasts operate lamps at a less efficient 60Hz and typically have efficiencies of 70-80%. Most ballasts consist of a core and coil transformer assembly. Today, magnetic ballasts for 4 foot and 8 foot lamps are typically used only for replacement purposes and are restricted by EPACK to be sold, even in replacement applications, starting in 2009.



Sign Ballast

Sign Ballast (Magnetic Ballast)

Designed to operate T12 HO Lamps at 120 volts in cold and damp conditions in sign cabinets.

GE eHID, Electronic High Intensity Discharge Ballast (eHID)

Electronic HID significantly improves the performance of HID lighting. GE's UltraMax® eHID ballast operates pulse start and ceramic metal halide lamps.



HID Electromagnetic Ballast Kit

GE High Intensity Discharge Ballast (HID)

HID magnetic ballasts consist of robust core and coil designs that meet or exceed minimum ANSI requirements. These ballasts are typically sold as distributor replacement kits which are pre-wired with a capacitor, ignitor (if applicable) and all necessary mounting hardware and instructions. Each wattage is typically offered in quad (MLT-120/208/240/277 volt), 5-tap (ML5-120/208/240/277/480 volt) or 480 volt (48T) options.



UltraMax® eHID Ballast

GE Lighting & Electrical Institute

- World renowned training and education center at historic Nela Park in Cleveland, Ohio
- Impressive full-scale lighting demonstrations plus comprehensive electrical distribution solution center
- Variety of scheduled courses offered throughout the year, taught by experienced industry professionals

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Quick reference lamp to ballast selection guide

| Lamp Type | Voltage | Fluorescent Ballast Type | Ballast Product Code | Ballast Description | Fluorescent Ballast Long Description |
|--------------------------|---------|--------------------------|----------------------|---------------------|---|
| Fluorescent Lamps | | | | | |
| CFQ13W/2P | 120 | Preheat | 87533 | GEM1CF13PH120 | 1- CFT/Q13W/GX23 Pre Heat 120(4111H2P) |
| | 120-277 | Programmed start | 63089 | GEC213-MVPS-3W | 2 or 1- CFQ13WG24q 120-277V ProLine® PS 3-Way Kit |
| CFQ13W/4P | 120-277 | Programmed start | 63091 | GEC213-MVPS-BES | 2 or 1- CFQ13WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63092 | GEC213-MVPS-SE | 2 or 1- CFQ13WG24q Side Exit 120-277V ProLine® PS |
| CFQ18W/4P | 120-277 | Programmed start | 63089 | GEC213-MVPS-3W | 2 or 1- CFQ13WG24q 120-277V ProLine® PS 3-Way Kit |
| | 120-277 | Programmed start | 63091 | GEC213-MVPS-BES | 2 or 1- CFQ13WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63092 | GEC213-MVPS-SE | 2 or 1- CFQ13WG24q Side Exit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63093 | GEC218-MVPS-3W | 2 or 1- CFQ18WG24q 120-277V ProLine® PS 3 Way Kit |
| CFQ26W/4P | 120-277 | Programmed start | 63094 | GEC218-MVPS-BES | 2 or 1- CFQ18WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63096 | GEC218-MVPS-SE | 2 or 1- CFQ18WG24q Side Exit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63093 | GEC218-MVPS-3W | 2 or 1- CFQ18WG24q 120-277V ProLine® PS 3 Way Kit |
| | 120-277 | Programmed start | 63094 | GEC218-MVPS-BES | 2 or 1- CFQ18WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| CFQ26W/4P | 120-277 | Programmed start | 63096 | GEC218-MVPS-SE | 2 or 1- CFQ18WG24q Side Exit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63097 | GEC218-MVPS-3W | 2 or 1- CFQ18WG24q 120-277V ProLine® PS 3 Way Kit |
| | 120-277 | Programmed start | 63094 | GEC218-MVPS-BES | 2 or 1- CFQ18WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63096 | GEC218-MVPS-SE | 2 or 1- CFQ18WG24q Side Exit 120-277V ProLine® PS |
| CFS10W/4P | 120-277 | Programmed start | 63097 | GEC226-MVPS-3W | 2-CFQ26W FT24 or 1-42W CFTR32 3 Way Mounting Kit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63101 | GEC226-MVPS-BES | 2-CFQ26W FT24 or 1-42W CFTR32 Bottom Exit w Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63099 | GEC226-MVPS-SE | 2-CFQ26W FT24 or 1-42W CFTR32 Side Exit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63089 | GEC213-MVPS-3W | 2 or 1- CFQ13WG24q 120-277V ProLine® PS 3-Way Kit |
| CFS16W/4P | 120-277 | Programmed start | 63091 | GEC213-MVPS-BES | 2 or 1- CFQ13WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63092 | GEC213-MVPS-SE | 2 or 1- CFQ13WG24q Side Exit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63089 | GEC213-MVPS-3W | 2 or 1- CFQ13WG24q 120-277V ProLine® PS 3-Way Kit |
| | 120-277 | Programmed start | 63091 | GEC213-MVPS-BES | 2 or 1- CFQ13WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| CFS21W/4P | 120-277 | Programmed start | 63092 | GEC213-MVPS-SE | 2 or 1- CFQ13WG24q Side Exit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63093 | GEC218-MVPS-3W | 2 or 1- CFQ18WG24q 120-277V ProLine® PS 3 Way Kit |
| | 120-277 | Programmed start | 63094 | GEC218-MVPS-BES | 2 or 1- CFQ18WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63096 | GEC218-MVPS-SE | 2 or 1- CFQ18WG24q Side Exit 120-277V ProLine® PS |
| CFS28W/4P | 120-277 | Programmed start | 63093 | GEC218-MVPS-3W | 2 or 1- CFQ18WG24q 120-277V ProLine® PS 3 Way Kit |
| | 120-277 | Programmed start | 63094 | GEC218-MVPS-BES | 2 or 1- CFQ18WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63096 | GEC218-MVPS-SE | 2 or 1- CFQ18WG24q Side Exit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63093 | GEC218-MVPS-3W | 2 or 1- CFQ18WG24q 120-277V ProLine® PS 3 Way Kit |
| CFT13W/2P | 120 | Preheat | 87533 | GEM1CF13PH120 | 1- CFT/Q13W/GX23 Pre Heat 120(4111H2P) |
| | 120-277 | Programmed start | 63089 | GEC213-MVPS-3W | 2 or 1- CFQ13WG24q 120-277V ProLine® PS 3-Way Kit |
| | 120-277 | Programmed start | 63091 | GEC213-MVPS-BES | 2 or 1- CFQ13WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63092 | GEC213-MVPS-SE | 2 or 1- CFQ13WG24q Side Exit 120-277V ProLine® PS |
| CFTR13W/4P | 120-277 | Programmed start | 63089 | GEC213-MVPS-3W | 2 or 1- CFQ13WG24q 120-277V ProLine® PS 3-Way Kit |
| | 120-277 | Programmed start | 63091 | GEC213-MVPS-BES | 2 or 1- CFQ13WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63092 | GEC213-MVPS-SE | 2 or 1- CFQ13WG24q Side Exit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63093 | GEC218-MVPS-3W | 2 or 1- CFQ18WG24q 120-277V ProLine® PS 3 Way Kit |
| CFTR18W/4P | 120-277 | Programmed start | 63094 | GEC218-MVPS-BES | 2 or 1- CFQ18WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63096 | GEC218-MVPS-SE | 2 or 1- CFQ18WG24q Side Exit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63093 | GEC218-MVPS-3W | 2 or 1- CFQ18WG24q 120-277V ProLine® PS 3 Way Kit |
| | 120-277 | Programmed start | 63094 | GEC218-MVPS-BES | 2 or 1- CFQ18WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| CFTR26W/4P | 120-277 | Programmed start | 63096 | GEC218-MVPS-SE | 2 or 1- CFQ18WG24q Side Exit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63097 | GEC218-MVPS-3W | 2 or 1- CFQ18WG24q 120-277V ProLine® PS 3 Way Kit |
| | 120-277 | Programmed start | 63094 | GEC218-MVPS-BES | 2 or 1- CFQ18WG24q Bottom Exit with Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63096 | GEC218-MVPS-SE | 2 or 1- CFQ18WG24q Side Exit 120-277V ProLine® PS |
| CFTR32W/4P | 120-277 | Programmed start | 63097 | GEC226-MVPS-3W | 2-CFQ26W FT24 or 1-42W CFTR32 3 Way Mounting Kit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63094 | GEC226-MVPS-BES | 2-CFQ26W FT24 or 1-42W CFTR32 Bottom Exit w Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63099 | GEC226-MVPS-SE | 2-CFQ26W FT24 or 1-42W CFTR32 Side Exit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63094 | GEC226-MVPS-BES | 2-CFQ26W FT24 or 1-42W CFTR32 Bottom Exit w Studs 120-277V ProLine® PS |
| CFTR42W/4P | 120-277 | Programmed start | 63097 | GEC226-MVPS-3W | 2-CFQ26W FT24 or 1-42W CFTR32 3 Way Mounting Kit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63094 | GEC226-MVPS-BES | 2-CFQ26W FT24 or 1-42W CFTR32 Bottom Exit w Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63099 | GEC226-MVPS-SE | 2-CFQ26W FT24 or 1-42W CFTR32 Side Exit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63094 | GEC226-MVPS-BES | 2-CFQ26W FT24 or 1-42W CFTR32 Bottom Exit w Studs 120-277V ProLine® PS |
| F12T9 | 120 | Rapid start | 97498 | GE240RS120 | 2 F40 or F34T12 Rapid Start 120V "N" BF ProLine® T12 |
| F14T5/HE | 120-277 | Programmed start | 68993 | GE228MVPS-MC | 2- F28T5 PRS UNV 50/60 Hz |
| | 120-277 | Programmed start | 68993 | GE228MVPS-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS Normal Light .95 BF A Can |
| | 120-277 | Programmed start | 68994 | GE228MVPS-H-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS High Light 1.15 BF A Can |
| F14T5/WM | 120-277 | Programmed start | 68993 | GE228MVPS-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS Normal Light .95 BF A Can |
| | 120-277 | Programmed start | 68994 | GE228MVPS-H-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS High Light 1.15 BF A Can |
| | 120 | Instant start | 97782 | GE232-120-RES | 2 or 1 - F32T8 120V Normal Light BF Energy Star Resi Grade Electronic Ballast |
| | 120 | Instant start | 23673 | GE-332-120-N | 3 or 2 - F32T8 120V "N".87 BF |
| | 120 | Instant start | 97783 | GE432-120-RES | 3 or 4- F32T8 120V Normal Light BF Energy Star Resi Grade Electronic Ballast |
| | 347 | Instant start | 74101 | GE132MAX-G-N-347 | 1- F32T8 347V "N" .87 BF UltraMax® |
| F17T8 | 347 | Instant start | 74109 | GE232MAXP347-H | 2 or 1 - F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74096 | GE232MAXP347-L | 2 or 1 - F32T8 347V "L" .77 BF UltraMax® |
| | 347 | Instant start | 74093 | GE232MAXP347-N | 2 or 1 - F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74103 | GE232MAX-G-N-347 | 2 or 1 - F32T8 347V "N" .87 BF UltraMax® |

Quick reference lamp to ballast selection guide (cont.)

| Lamp Type | Voltage | Fluorescent Ballast Type | Ballast Product Code | Ballast Description | Fluorescent Ballast Long Description | |
|--------------------------------------|------------------|--------------------------|----------------------|---|---|---|
| Fluorescent Lamps (continued) | | | | | | |
| F17T8 (cont) | 347 | Instant start | 74111 | GE332MAXP347-H | 3 - F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74097 | GE332MAXP347-L | 3 or 2- F32T8 347V "L" .77 BF UltraMax® | |
| | 347 | Instant start | 74094 | GE332MAXP347-N | 3 or 2- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74105 | GE332MAX-G-N-347 | 3 or 2- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74113 | GE432MAXP347-H | 4 - F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74098 | GE432MAXP347-L | 4 or 3- F32T8 347V "L" .77 BF UltraMax® | |
| | 347 | Instant start | 74095 | GE432MAXP347-N | 4 or 3- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74107 | GE432MAX-G-N-347 | 4 or 3- F32T8 347V "N" .87 BF UltraMax® | |
| | 120-277 | Instant start | 72258 | GE132MAXP-L/ULTRA | 1- F32T8 120 to 277 "L" .77BF UltraMax® | |
| | 120-277 | Instant start | 72259 | GE132MAXP-N/ULTRA | 1- F32T8 120 to 277 "N" .87 BF UltraMax® | |
| | 120-277 | Instant start | 72269 | GE132MAX-G-N | 1- F32T8 120 to 277 "N".87 BF UltraMax® | |
| | 120-277 | Programmed start | 75954 | GE132-MVPS-H | 1 F32T8 120V-277V High Light 1.18 BF<10% THD UltraStart® | |
| | 120-277 | Programmed start | 75952 | GE132-MVPS-L | 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® | |
| | 120-277 | Programmed start | 75953 | GE132-MVPS-N | 1 F32T8 120V-277V Normal Light .88 BF<10% THD UltraStart® | |
| | 120-277 | Instant start | 73233 | GE232MAXP90-S60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim | |
| | 120-277 | Instant start | 73234 | GE232MAXP90-V60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim | |
| | 120-277 | Instant start | 72262 | GE232MAXP-L/ULTRA | 2 or 1- F32T8 120 to 277 "L" .77 BF UltraMax® | |
| | 120-277 | Instant start | 72266 | GE232MAXP-N/ULTRA | 2 or 1- F32T8 120 to 277 "N" .87 BF UltraMax® | |
| | 120-277 | Instant start | 71421 | GE232MAXP-N+ | 2 or 1- F32T8 120 to 277 "N+" 1.0 BF UltraMax® | |
| | 120-277 | Instant start | 74803 | GE232MAX-G-H | 2 or 1- F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| | 120-277 | Instant start | 72273 | GE232MAX-G-L | 2 or 1- F32T8 120 to 277 "L".77 BF UltraMax® | |
| | 120-277 | Instant start | 72275 | GE232MAX-G-N | 2 or 1- F32T8 120 to 277 "N".87 BF UltraMax® | |
| | 120-277 | Programmed start | 29675 | GE-232-MVPS-H | 2 F32T8 120V-277V High Light 1.15 BF UltraStart® | |
| | 120-277 | Programmed start | 96720 | GE232-MVPS-L | 2 or 1 F32T8 120V-277V Low Watt .71 BF UltraStart® Program Start | |
| | 120-277 | Programmed start | 96714 | GE232-MVPS-N | 2 or 1 F32T8 120V-277V Normal Light .88 BF UltraStart® | |
| | 120-277 | Programmed start | 29671 | GE-232-MVPS-XL | 2 or 1 F32T8 120V-277V Ultra Low Watt .60 BF UltraStart® | |
| | 120-277 | Instant start | 73231 | GE332MAXP90-S60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim | |
| | 120-277 | Instant start | 73232 | GE332MAXP90-V60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim | |
| | 120-277 | Instant start | 71714 | GE332MAXP-H/ULTRA | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| | 120-277 | Instant start | 71717 | GE332MAXP-L/ULTRA | 3 or 2- F32T8 120 to 277 "L" .77 BF UltraMax® | |
| | 120-277 | Instant start | 71719 | GE332MAXP-N/ULTRA | 3 or 2- F32T8 120 to 277 "N" .87 BF UltraMax® | |
| | 120-277 | Instant start | 71422 | GE332MAXP-N+ | 3 or 2- F32T8 120 to 277 "N+" 1.0 BF UltraMax® | |
| | 120-277 | Instant start | 74461 | GE332MAX-G-H | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| | 120-277 | Instant start | 74459 | GE332MAX-G-L | 3 or 2- F32T8 120 to 277 UltraMax® | |
| | 120-277 | Instant start | 74456 | GE332MAX-G-N | 3 or 2- F32T8 120 to 277 "N".87 BF UltraMax® | |
| | 120-277 | Programmed start | 29676 | GE-332-MVPS-H | 3 F32T8 120V-277V High Light 1.15 BF UltraStart® | |
| | 120-277 | Programmed start | 96721 | GE332-MVPS-L | 3 F32T8 120V-277V Low Watt .71 BF UltraStart® | |
| | 120-277 | Programmed start | 96715 | GE332-MVPS-N | 3 F32T8 120V-277V Normal Light .88 BF UltraStart® | |
| | 120-277 | Programmed start | 29672 | GE-332-MVPS-XL | 3 F32T8 120V-277V Ultra Low Watt .60 BF UltraStart® | |
| | 120-277 | Instant start | 73229 | GE432MAXP90-S60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim | |
| | 120-277 | Instant start | 73230 | GE432MAXP90-V60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim | |
| | 120-277 | Instant start | 71723 | GE432MAXP-H/ULTRA | 4 or 3- F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| | 120-277 | Instant start | 71725 | GE432MAXP-L/ULTRA | 4 or 3- F32T8 120 to 277 "L" .77 BF UltraMax® | |
| | 120-277 | Instant start | 71727 | GE432MAXP-N/ULTRA | 4 or 3- F32T8 120 to 277 "N" .87 BF UltraMax® | |
| | 120-277 | Instant start | 71423 | GE432MAXP-N+ | 4 or 3- F32T8 120 to 277 "N+" 1.0 BF UltraMax® | |
| | 120-277 | Instant start | 30219 | GE432MAX-G-H | 4 or 3- F32T8 120 to 277 "H" 1.15 BF UltraMax® | |
| | 120-277 | Instant start | 74466 | GE432MAX-G-L | 4 or 3- F32T8 120 to 277 "L" .77 BF UltraMax® | |
| | 120-277 | Instant start | 74463 | GE432MAX-G-N | 4 or 3- F32T8 120 to 277 "N".87 BF UltraMax® | |
| | 120-277 | Programmed start | 74476 | GE432-MVPS-H | 4 F32T8 120V-277V High Light 1.18 BF UltraStart® | |
| | 120-277 | Programmed start | 71832 | GE432-MVPS-L | 4 F32T8 120V-277V Low Watt .71 BF UltraStart® | |
| 120-277 | Programmed start | 96716 | GE432-MVPS-N | 4 F32T8 120V-277V Normal Light .88 BF UltraStart® | | |
| 120-277 | Instant start | 74117 | GE632MAXP-H90 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® | | |
| 120-277 | Instant start | 71497 | GE632MAXP-H90-S60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 1-wire powerline 100/60% step dim | | |
| 120-277 | Instant start | 71731 | GE632MAXP-H90-V60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 2-wire 0-10V 100-60% continuous dim | | |
| F17T8/WM | 347 | Instant start | 74109 | GE232MAXP347-H | 2 or 1- F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74096 | GE232MAXP347-L | 2 or 1- F32T8 347V "L" .77 BF UltraMax® | |
| | 347 | Instant start | 74093 | GE232MAXP347-N | 2 or 1- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74103 | GE232MAX-G-N-347 | 2 or 1- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74111 | GE332MAXP347-H | 3 - F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74097 | GE332MAXP347-L | 3 or 2- F32T8 347V "L" .77 BF UltraMax® | |
| | 347 | Instant start | 74094 | GE332MAXP347-N | 3 or 2- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74105 | GE332MAX-G-N-347 | 3 or 2- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74113 | GE432MAXP347-H | 4 - F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74098 | GE432MAXP347-L | 4 or 3- F32T8 347V "L" .77 BF UltraMax® | |
| | 347 | Instant start | 74095 | GE432MAXP347-N | 4 or 3- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74107 | GE432MAX-G-N-347 | 4 or 3- F32T8 347V "N" .87 BF UltraMax® | |
| | 120-277 | Programmed start | 75954 | GE132-MVPS-H | 1 F32T8 120V-277V High Light 1.18 BF<10% THD UltraStart® | |
| | 120-277 | Programmed start | 75952 | GE132-MVPS-L | 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® | |
| | 120-277 | Programmed start | 75953 | GE132-MVPS-N | 1 F32T8 120V-277V Normal Light .88 BF<10% THD UltraStart® | |
| | F20T12 | 120-277 | Rapid start | 74472 | GE240RS-MV-N | 2 or 1- F40 or F34T12 Rapid Start 120 to 277 "N" BF |

| Lamp Type | Voltage | Fluorescent Ballast Type | Ballast Product Code | Ballast Description | Fluorescent Ballast Long Description | |
|--------------------------------------|---------|--------------------------|----------------------|---------------------|--|--|
| Fluorescent Lamps (continued) | | | | | | |
| F20T12 (cont) | 120-277 | Rapid start | 74472 | GE240RS-MV-N | 2 or 1- F40 or F34T12 Rapid Start 120 to 277 "N" BF | |
| F21T5/HE | 120-277 | Programmed start | 68993 | GE228MVPS-MC | 2- F28T5 PRS UNV 50/60 Hz | |
| | 120-277 | Programmed start | 68993 | GE228MVPS-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS Normal Light .95 BF A Can | |
| F21T5/WM | 120-277 | Programmed start | 68994 | GE228MVPS-H-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS High Light 1.15 BF A Can | |
| | 120-277 | Programmed start | 68993 | GE228MVPS-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS Normal Light .95 BF A Can | |
| F24T5/HO | 120-277 | Programmed start | 68994 | GE228MVPS-H-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS High Light 1.15 BF A Can | |
| | 120-277 | Programmed start | 68976 | GE-224MVPS-N | 2- F24T5HO PRS UNV 50/60 Hz | |
| F25T12 | 120-277 | Programmed start | 47540 | B239PUNV-DOG1C | 2- F39T5HO PRS UNV 50/60 Hz | |
| | 120 | Rapid start | 97498 | GE240RS120 | 2 F40 or F34T12 Rapid Start 120V "N" BF ProLine® T12 | |
| F25T12 | 347 | Instant start | 74101 | GE132MAX-G-N-347 | 1- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74109 | GE232MAXP347-H | 2 or 1- F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74096 | GE232MAXP347-L | 2 or 1- F32T8 347V "L" .77 BF UltraMax® | |
| | 347 | Instant start | 74093 | GE232MAXP347-N | 2 or 1- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74103 | GE232MAX-G-N-347 | 2 or 1- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74111 | GE332MAXP347-H | 3 - F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74097 | GE332MAXP347-L | 3 or 2- F32T8 347V "L" .77 BF UltraMax® | |
| | 347 | Instant start | 74094 | GE332MAXP347-N | 3 or 2- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74105 | GE332MAX-G-N-347 | 3 or 2- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74113 | GE432MAXP347-H | 4 - F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74098 | GE432MAXP347-L | 4 or 3- F32T8 347V "L" .77 BF UltraMax® | |
| | 347 | Instant start | 74095 | GE432MAXP347-N | 4 or 3- F32T8 347V "N" .87 BF UltraMax® | |
| | 347 | Instant start | 74107 | GE432MAX-G-N-347 | 4 or 3- F32T8 347V "N" .87 BF UltraMax® | |
| | 120-277 | Instant start | 72258 | GE132MAXP-L/ULTRA | 1- F32T8 120 to 277 "L" .77BF UltraMax® | |
| | 120-277 | Instant start | 72259 | GE132MAXP-N/ULTRA | 1- F32T8 120 to 277 "N" .87 BF UltraMax® | |
| | 120-277 | Programmed start | 75954 | GE132-MVPS-H | 1 F32T8 120V-277V High Light 1.18 BF<10% THD UltraStart® | |
| | 120-277 | Programmed start | 75952 | GE132-MVPS-L | 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® | |
| | 120-277 | Programmed start | 75953 | GE132-MVPS-N | 1 F32T8 120V-277V Normal Light .88 BF<10% THD UltraStart® | |
| | 120-277 | Instant start | 72262 | GE232MAXP-L/ULTRA | 2 or 1- F32T8 120 to 277 "L" .77 BF UltraMax® | |
| | 120-277 | Instant start | 72266 | GE232MAXP-N/ULTRA | 2 or 1- F32T8 120 to 277 "N" .87 BF UltraMax® | |
| | 120-277 | Instant start | 71421 | GE232MAXP-N+ | 2 or 1- F32T8 120 to 277 "N+" 1.0 BF UltraMax® | |
| | 120-277 | Instant start | 78619 | GE332MAXP-H/ULTRA | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| | 120-277 | Instant start | 78621 | GE332MAXP-L/ULTRA | 3 or 2- F32T8 120 to 277 "L" .77 BF UltraMax® | |
| | 120-277 | Instant start | 78623 | GE332MAXP-N/ULTRA | 3 or 2- F32T8 120 to 277 "N" .87 BF UltraMax® | |
| | 120-277 | Instant start | 71422 | GE332MAXP-N+ | 3 or 2- F32T8 120 to 277 "N+" 1.0 BF UltraMax® | |
| | 120-277 | Instant start | 71723 | GE432MAXP-H/ULTRA | 4 or 3- F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| | 120-277 | Instant start | 78625 | GE432MAXP-L/ULTRA | 4 or 3- F32T8 120 to 277 "L" .77 BF UltraMax® | |
| | 120-277 | Instant start | 78627 | GE432MAXP-N/ULTRA | 4 or 3- F32T8 120 to 277 "N" .87 BF UltraMax® | |
| | 120-277 | Instant start | 71423 | GE432MAXP-N+ | 4 or 3- F32T8 120 to 277 "N+" 1.0 BF UltraMax® | |
| | F25T8 | 120 | Instant start | 97782 | GE232-120-RES | 2 or 1- F32T8 120V Normal Light BF Energy Star Resi Grade Electronic Ballast |
| | | 120 | Instant start | 97783 | GE432-120-RES | 3 or 4- F32T8 120V Normal Light BF Energy Star Resi Grade Electronic Ballast |
| | | 347 | Instant start | 74101 | GE132MAX-G-N-347 | 1- F32T8 347V "N" .87 BF UltraMax® |
| 347 | | Instant start | 74109 | GE232MAXP347-H | 2 or 1- F32T8 347V "H" 1.18 BF UltraMax® | |
| 347 | | Instant start | 74096 | GE232MAXP347-L | 2 or 1- F32T8 347V "L" .77 BF UltraMax® | |
| 347 | | Instant start | 74093 | GE232MAXP347-N | 2 or 1- F32T8 347V "N" .87 BF UltraMax® | |
| 347 | | Instant start | 74103 | GE232MAX-G-N-347 | 2 or 1- F32T8 347V "N" .87 BF UltraMax® | |
| 347 | | Instant start | 74103 | GE232MAX-G-N-347 | 2 or 1- F32T8 347V "N" .87 BF UltraMax® | |
| 347 | | Instant start | 74111 | GE332MAXP347-H | 3 - F32T8 347V "H" 1.18 BF UltraMax® | |
| 347 | | Instant start | 74111 | GE332MAXP347-H | 3 - F32T8 347V "H" 1.18 BF UltraMax® | |
| 347 | | Instant start | 74097 | GE332MAXP347-L | 3 or 2- F32T8 347V "L" .77 BF UltraMax® | |
| 347 | | Instant start | 74097 | GE332MAXP347-L | 3 or 2- F32T8 347V "L" .77 BF UltraMax® | |
| 347 | | Instant start | 74094 | GE332MAXP347-N | 3 or 2- F32T8 347V "N" .87 BF UltraMax® | |
| 347 | | Instant start | 74094 | GE332MAXP347-N | 3 or 2- F32T8 347V "N" .87 BF UltraMax® | |
| 347 | | Instant start | 74105 | GE332MAX-G-N-347 | 3 or 2- F32T8 347V "N" .87 BF UltraMax® | |
| 347 | | Instant start | 74105 | GE332MAX-G-N-347 | 3 or 2- F32T8 347V "N" .87 BF UltraMax® | |
| 347 | | Instant start | 74113 | GE432MAXP347-H | 4 - F32T8 347V "H" 1.18 BF UltraMax® | |
| 347 | | Instant start | 74098 | GE432MAXP347-L | 4 or 3- F32T8 347V "L" .77 BF UltraMax® | |
| 347 | | Instant start | 74098 | GE432MAXP347-L | 4 or 3- F32T8 347V "L" .77 BF UltraMax® | |
| 347 | | Instant start | 74095 | GE432MAXP347-N | 4 or 3- F32T8 347V "N" .87 BF UltraMax® | |
| 347 | | Instant start | 74095 | GE432MAXP347-N | 4 or 3- F32T8 347V "N" .87 BF UltraMax® | |
| 347 | | Instant start | 74107 | GE432MAX-G-N-347 | 4 or 3- F32T8 347V "N" .87 BF UltraMax® | |
| 347 | | Instant start | 74107 | GE432MAX-G-N-347 | 4 or 3- F32T8 347V "N" .87 BF UltraMax® | |
| 120-277 | | Instant start | 72258 | GE132MAXP-L/ULTRA | 1- F32T8 120 to 277 "L" .77BF UltraMax® | |
| 120-277 | | Instant start | 72259 | GE132MAXP-N/ULTRA | 1- F32T8 120 to 277 "N" .87 BF UltraMax® | |
| 120-277 | | Instant start | 72269 | GE-132MAX-G-N | 1- F32T8 120 to 277 "N" .87 BF UltraMax® | |
| 120-277 | | Programmed start | 75954 | GE132-MVPS-H | 1 F32T8 120V-277V High Light 1.18 BF<10% THD UltraStart® | |
| 120-277 | | Programmed start | 75952 | GE132-MVPS-L | 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® | |
| 120-277 | | Programmed start | 75953 | GE132-MVPS-N | 1 F32T8 120V-277V Normal Light .88 BF<10% THD UltraStart® | |
| 120-277 | | Instant start | 72262 | GE232MAXP-L/ULTRA | 2 or 1- F32T8 120 to 277 "L" .77 BF UltraMax® | |
| 120-277 | | Instant start | 72266 | GE232MAXP-N/ULTRA | 2 or 1- F32T8 120 to 277 "N" .87 BF UltraMax® | |

Quick reference lamp to ballast selection guide (cont.)

| Lamp Type | Voltage | Fluorescent Ballast Type | Ballast Product Code | Ballast Description | Fluorescent Ballast Long Description | |
|--------------------------------------|---------------|--------------------------|----------------------|---|---|---|
| Fluorescent Lamps (continued) | | | | | | |
| F25T8 (cont) | 120-277 | Instant start | 71421 | GE232MAXP-N+ | 2 or 1- F32T8 120 to 277 "N+" 1.0 BF UltraMax® | |
| | 120-277 | Instant start | 74803 | GE232MAX-G-H | 2 or 1- F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| | 120-277 | Instant start | 72273 | GE232MAX-G-L | 2 or 1- F32T8 120 to 277 "L".77 BF UltraMax® | |
| | 120-277 | Instant start | 72275 | GE232MAX-G-N | 2 or 1- F32T8 120 to 277 "N".87 BF UltraMax® | |
| | 120-277 | Programmed start | 29675 | GE-232-MVPS-H | 2 F32T8 120V-277V High Light 1.15 BF UltraStart® | |
| | 120-277 | Programmed start | 96720 | GE232-MVPS-L | 2 or 1 F32T8 120V-277V Low Watt .71 BF UltraStart® Program Start | |
| | 120-277 | Programmed start | 96714 | GE232-MVPS-N | 2 or 1 F32T8 120V-277V Normal Light .88 BF UltraStart® | |
| | 120-277 | Programmed start | 96714 | GE232-MVPS-N | 2 or 1 F32T8 120V-277V Normal Light .88 BF UltraStart® | |
| | 120-277 | Programmed start | 29671 | GE-232-MVPS-XL | 2 or 1 F32T8 120V-277V Ultra Low Watt .60 BF UltraStart® | |
| | 120-277 | Instant start | 78619 | GE332MAXP-H/ULTRA | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| | 120-277 | Instant start | 78621 | GE332MAXP-L/ULTRA | 3 or 2- F32T8 120 to 277 "L".77 BF UltraMax® | |
| | 120-277 | Instant start | 78623 | GE332MAX-N/ULTRA | 3 or 2- F32T8 120 to 277 "N".87 BF UltraMax® | |
| | 120-277 | Instant start | 71422 | GE332MAXP-N+ | 3 or 2- F32T8 120 to 277 "N+" 1.0 BF UltraMax® | |
| | 120-277 | Instant start | 74461 | GE332MAX-G-H | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| | 120-277 | Instant start | 74459 | GE332MAX-G-L | 3 or 2- F32T8 120 to 277 "L".77 BF UltraMax® | |
| | 120-277 | Instant start | 74456 | GE332MAX-G-N | 3 or 2- F32T8 120 to 277 "N".87 BF UltraMax® | |
| | 120-277 | Programmed start | 29676 | GE-332-MVPS-H | 3 F32T8 120V-277V High Light 1.15 BF UltraStart® | |
| | 120-277 | Programmed start | 96721 | GE332-MVPS-L | 3 F32T8 120V-277V Low Watt .71 BF UltraStart® | |
| | 120-277 | Programmed start | 96715 | GE332-MVPS-N | 3 F32T8 120V-277V Normal Light .88 BF UltraStart® | |
| | 120-277 | Programmed start | 29672 | GE-332-MVPS-XL | 3 F32T8 120V-277V Ultra Low Watt .60 BF UltraStart® | |
| | 120-277 | Instant start | 71723 | GE432MAXP-H/ULTRA | 4 or 3- F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| | 120-277 | Instant start | 78625 | GE432MAXP-L/ULTRA | 4 or 3- F32T8 120 to 277 "L".77 BF UltraMax® | |
| | 120-277 | Instant start | 78627 | GE432MAXP-N/ULTRA | 4 or 3- F32T8 120 to 277 "N".87 BF UltraMax® | |
| | 120-277 | Instant start | 71423 | GE432MAXP-N+ | 4 or 3- F32T8 120 to 277 "N+" 1.0 BF UltraMax® | |
| | 120-277 | Instant start | 71423 | GE432MAXP-N+ | 4 or 3- F32T8 120 to 277 "N+" 1.0 BF UltraMax® | |
| | 120-277 | Instant start | 67911 | GE432MAX-G-H | 4 or 3- F32T8 120 to 277 "H" 1.15 BF UltraMax® | |
| | 120-277 | Instant start | 74466 | GE432MAX-G-L | 4 or 3- F32T8 120 to 277 UltraMax® | |
| | 120-277 | Instant start | 74463 | GE432MAX-G-N | 4 or 3- F32T8 120 to 277 "N".87 BF UltraMax® | |
| | 120-277 | Programmed start | 74476 | GE432-MVPS-H | 4 F32T8 120V-277V High Light 1.18 BF UltraStart® | |
| | 120-277 | Programmed start | 71832 | GE432-MVPS-L | 4 F32T8 120V-277V Low Watt .71 BF UltraStart® | |
| | 120-277 | Programmed start | 96716 | GE432-MVPS-N | 4 F32T8 120V-277V Normal Light .88 BF UltraStart® | |
| | 120-277 | Instant start | 74117 | GE632MAX-H90 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| | 120-277 | Instant start | 71497 | GE632MAXP-H90-S60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 1-wire powerline 100/60% step dim | |
| 120-277 | Instant start | 71731 | GE632MAXP-H90-V60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 2-wire 0-10V 100-60% continuous dim | | |
| F25T8/WM | 347 | Instant start | 74101 | GE132MAX-G-N-347 | 1- F32T8 347V "N".87 BF ProLine® | |
| | 347 | Instant start | 74109 | GE232MAXP347-H | 2 or 1- F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74096 | GE232MAXP347-L | 2 or 1- F32T8 347V "L".77 BF UltraMax® | |
| | 347 | Instant start | 74093 | GE232MAXP347-N | 2 or 1- F32T8 347V "N".87 BF UltraMax® | |
| | 347 | Instant start | 74103 | GE232MAX-G-N-347 | 2 or 1- F32T8 347V "N".87 BF UltraMax® | |
| | 347 | Instant start | 74111 | GE332MAXP347-H | 3 - F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74097 | GE332MAXP347-L | 3 or 2- F32T8 347V "L".77 BF UltraMax® | |
| | 347 | Instant start | 74094 | GE332MAXP347-N | 3 or 2- F32T8 347V "N".87 BF UltraMax® | |
| | 347 | Instant start | 74105 | GE332MAX-G-N-347 | 3 or 2- F32T8 347V "N".87 BF UltraMax® | |
| | 347 | Instant start | 74113 | GE432MAXP347-H | 4 - F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74098 | GE432MAXP347-L | 4 or 3- F32T8 347V "L".77 BF UltraMax® | |
| | 347 | Instant start | 74095 | GE432MAXP347-N | 4 or 3- F32T8 347V "N".87 BF UltraMax® | |
| | 347 | Instant start | 74107 | GE432MAX-G-N-347 | 4 or 3- F32T8 347V "N".87 BF UltraMax® | |
| | 120-277 | Programmed start | 75954 | GE132-MVPS-H | 1 F32T8 120V-277V High Light 1.18 BF <10% THD UltraStart® | |
| | 120-277 | Programmed start | 75952 | GE132-MVPS-L | 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® | |
| | 120-277 | Programmed start | 75953 | GE132-MVPS-N | 1 F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart® | |
| | F28T5 | 120-277 | Instant start | 75948 | GEC140MAX-A | 1-F740W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| | | 120-277 | Instant start | 71435 | GEC240MAX-A | 2 or 1-F740W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| | | 120-277 | Instant start | 71436 | GEC340MAX-A | 3-F740W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| | F28T5/HE | 120-277 | Programmed start | 68993 | GE228MVPS-MC | 2- F28T5 PRS UNV 50/60 Hz |
| 120-277 | | Programmed start | 68993 | GE228MVPS-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS Normal Light .95 BF A Can | |
| F28T5/HL | 120-277 | Programmed start | 68994 | GE228MVPS-MC-H | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS High Light 1.15 BF A Can | |
| | 120-277 | Programmed start | 68993 | GE228MVPS-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS Normal Light .95 BF A Can | |
| F28T5/WM | 120-277 | Programmed start | 68994 | GE228MVPS-MC-H | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS High Light 1.15 BF A Can | |
| | 120-277 | Programmed start | 68993 | GE228MVPS-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS Normal Light .95 BF A Can | |
| F28T8 | 120 | Instant start | 97782 | GE232-120-RES | 2 or 1- F32T8 120V Normal Light BF Energy Star Resi Grade Electronic Ballast | |
| | 120 | Instant start | 97783 | GE432-120-RES | 3 or 4- F32T8 120V Normal Light BF Energy Star Resi Grade Electronic Ballast | |
| | 347 | Instant start | 74101 | GE132MAX-G-N-347 | 1- F32T8 347V "N".87 BF UltraMax® | |
| | 347 | Instant start | 74109 | GE232MAXP347-H | 2 or 1- F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74096 | GE232MAXP347-L | 2 or 1- F32T8 347V "L".77 BF UltraMax® | |
| | 347 | Instant start | 74093 | GE232MAXP347-N | 2 or 1- F32T8 347V "N".87 BF UltraMax® | |
| | 347 | Instant start | 74103 | GE232MAX-G-N-347 | 2 or 1- F32T8 347V "N".87 BF UltraMax® | |
| | 347 | Instant start | 74111 | GE332MAXP347-H | 3 - F32T8 347V "H" 1.18 BF UltraMax® | |
| | 347 | Instant start | 74097 | GE332MAXP347-L | 3 or 2- F32T8 347V "L".77 BF UltraMax® | |
| 347 | Instant start | 74094 | GE332MAXP347-N | 3 or 2- F32T8 347V "N".87 BF UltraMax® | | |

| Lamp Type | Voltage | Fluorescent Ballast Type | Ballast Product Code | Ballast Description | Fluorescent Ballast Long Description |
|--------------------------------------|------------------|--------------------------|----------------------|---|--|
| Fluorescent Lamps (continued) | | | | | |
| F28T8 (cont) | 347 | Instant start | 74105 | GE332MAXP-G-N-347 | 3 or 2- F32T8 347V "N".87 BF UltraMax® |
| | 347 | Instant start | 74113 | GE432MAXP347-H | 4 - F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74098 | GE432MAXP347-L | 4 or 3- F32T8 347V "L".77 BF UltraMax® |
| | 347 | Instant start | 74095 | GE432MAXP347-N | 4 or 3- F32T8 347V "N".87 BF UltraMax® |
| | 347 | Instant start | 74107 | GE432MAX-G-N-347 | 4 or 3- F32T8 347V "N".87 BF UltraMax® |
| | 120-277 | Instant start | 72258 | GE132MAXP-L/ULTRA | 1- F32T8 120 to 277 "L".77BF UltraMax® |
| | 120-277 | Instant start | 72259 | GE132MAXP-N/ULTRA | 1- F32T8 120 to 277"N".87 BF UltraMax® |
| | 120-277 | Instant start | 72269 | GE132MAX-G-N | 1- F32T8 120 to 277 "N".87 BF UltraMax® F28T8 |
| | 120-277 | Programmed start | 75954 | GE132-MVPS-H | 1 F32T8 120V-277V High Light 1.18 BF<10% THD UltraStart® |
| | 120-277 | Programmed start | 75952 | GE132-MVPS-L | 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® |
| | 120-277 | Programmed start | 75953 | GE132-MVPS-N | 1 F32T8 120V-277V Normal Light .88 BF<10% THD UltraStart® |
| | 120-277 | Instant start | 73233 | GE232MAXP90-S60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73234 | GE232MAXP90-V60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 72262 | GE232MAXP-L/ULTRA | 2 or 1- F32T8 120 to 277 "L".77 BF UltraMax® |
| | 120-277 | Instant start | 72266 | GE232MAXP-N/ULTRA | 2 or 1- F32T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 71421 | GE232MAXP-N+ | 2 or 1- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 74803 | GE232MAX-G-H | 2 or 1- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 72273 | GE-232MAX-G-L | 2 or 1- F32T8 120 to 277 "L".77 BF UltraMax® |
| | 120-277 | Instant start | 72275 | GE-232MAX-G-N | 2 or 1- F32T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Programmed start | 29675 | GE-232-MVPS-H | 2 F32T8 120V-277V High Light 1.15 BF UltraStart® |
| | 120-277 | Programmed start | 96720 | GE232-MVPS-L | 2 or 1 F32T8 120V-277V Low Watt .71 BF UltraStart® Program Start |
| | 120-277 | Programmed start | 29671 | GE-232-MVPS-XL | 2 or 1 F32T8 120V-277V Ultra Low Watt .60 BF UltraStart® |
| | 120-277 | Instant start | 73231 | GE332MAXP90-S60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73232 | GE332MAXP90-V60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 71714 | GE332MAXP-H/ULTRA | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 78621 | GE332MAXP-L/ULTRA | 3 or 2- F32T8 120 to 277 "L".77 BF UltraMax® |
| | 120-277 | Instant start | 78623 | GE332MAXP-N/ULTRA | 3 or 2- F32T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 71422 | GE332MAXP-N+ | 3 or 2- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 74461 | GE332MAX-G-H | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 74459 | GE332MAX-G-L | 3 or 2- F32T8 120 to 277 "L".77 BF UltraMax® |
| | 120-277 | Instant start | 74456 | GE332MAX-G-N | 3 or 2- F32T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Programmed start | 29676 | GE-332-MVPS-H | 3 F32T8 120V-277V High Light 1.15 BF UltraStart® |
| | 120-277 | Programmed start | 96721 | GE332-MVPS-L | 3 F32T8 120V-277V Low Watt .71 BF UltraStart® |
| | 120-277 | Programmed start | 96715 | GE332-MVPS-N | 3 F32T8 120V-277V Normal Light .88 BF UltraStart® |
| | 120-277 | Programmed start | 29672 | GE-332-MVPS-XL | 3 F32T8 120V-277V Ultra Low Watt .60 BF UltraStart® |
| | 120-277 | Instant start | 73229 | GE432MAXP90-S60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73230 | GE432MAXP90-V60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 71723 | GE432MAXP-H/ULTRA | 4 or 3- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 78625 | GE432MAXP-L/ULTRA | 4 or 3- F32T8 120 to 277 "L".77 BF UltraMax® |
| | 120-277 | Instant start | 78627 | GE432MAXP-N/ULTRA | 4 or 3- F32T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 71423 | GE432MAXP-N+ | 4 or 3- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 67911 | GE432MAX-G-H | 4 or 3- F32T8 120 to 277 "H" 1.15 BF UltraMax® |
| 120-277 | Instant start | 74466 | GE432MAX-G-L | 4 or 3- F32T8 120 to 277 "L".77 BF UltraMax® | |
| 120-277 | Instant start | 74463 | GE432MAX-G-N | 4 or 3- F32T8 120 to 277 "N".87 BF UltraMax® | |
| 120-277 | Programmed start | 74476 | GE432-MVPS-H | 4 F32T8 120V-277V High Light 1.18 BF UltraStart® | |
| 120-277 | Programmed start | 71832 | GE432-MVPS-L | 4 F32T8 120V-277V Low Watt .71 BF UltraStart® | |
| 120-277 | Programmed start | 96716 | GE432-MVPS-N | 4 F32T8 120V-277V Normal Light .88 BF UltraStart® | |
| 120-277 | Instant start | 74117 | GE632MAXP-H90 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| 120-277 | Instant start | 71497 | GE632MAXP-H90-S60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 1-wire powerline 100/60% step dim | |
| 120-277 | Instant start | 71731 | GE632MAXP-H90-V60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 2-wire 0-10V 100-60% continuous dim | |
| F30T12 | 120 | Rapid start | 75672 | GE140RS120 | 1 F40 or F34T12 Rapid Start Electronic 120V "N" BF |
| | 120 | Rapid start | 97498 | GE240RS120 | 2 F40 or F34T12 Rapid Start 120V "N" BF ProLine® T12 |
| F30T12/WM | 120-277 | Rapid start | 74472 | GE240RS-MV-N | 2 or 1- F40 or F34T12 Rapid Start 120 to 277 "N" BF |
| | 120-277 | Rapid start | 74472 | GE240RS-MV-N | 2 or 1- F40 or F34T12 Rapid Start 120 to 277 "N" BF |
| F30T12/WM | 120-277 | Rapid start | 24107 | GE-240-RS-MV-N | 2 or 1- F40 or F34T12 Rapid Start 120 to 277 "N" BF |
| | 120-277 | Rapid start | 24109 | GE-340-RS-MV-N | 3 or 2- F40 or F34T12 Rapid Start 120 to 277 "N" BF |
| F32T8 | | | 74119 | GETR480/277-250W | Transformer 480 to 277V, <250 Watts(VA), A can |
| | | | 74120 | GETR480/277-375W | Transformer 480 to 277V, <375 Watts (VA), F can |
| | 120 | Instant start | 97782 | GE232-120-RES | 2 or 1- F32T8 120V Normal Light BF Energy Star Resi Grade Electronic Ballast |
| | 120 | Instant start | 23673 | GE-332-120-N | 3 or 2- F32T8 120V "N".87 BF |
| | 120 | Instant start | 97783 | GE432-120-RES | 3 or 4- F32T8 120V Normal Light BF Energy Star Resi Grade Electronic Ballast |
| | 120 | Rapid start | 87125 | GEM232T8RS120 | 2- F32T8 RS 120V Magnetic Ballast (M232SR120C) |
| | 347 | Instant start | 74101 | GE132MAX-G-N-347 | 1- F32T8 347V "N".87 BF ProLine® |
| | 347 | Instant start | 74109 | GE232MAXP347-H | 2 or 1- F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74096 | GE232MAXP347-L | 2 or 1- F32T8 347V "L".77 BF UltraMax® |
| | 347 | Instant start | 74093 | GE232MAXP347-N | 2 or 1- F32T8 347V "N".87 BF UltraMax® |
| | 347 | Instant start | 74103 | GE232MAX-G-N-347 | 2 or 1- F32T8 347V "N".87 BF ProLine® |
| | 347 | Instant start | 74111 | GE332MAXP347-H | 3 - F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74097 | GE332MAXP347-L | 3 or 2- F32T8 347V "L".77 BF UltraMax® |
| | 347 | Instant start | 74094 | GE332MAXP347-N | 3 or 2- F32T8 347V "N".87 BF UltraMax® |

Quick reference lamp to ballast selection guide (cont.)

| Lamp Type | Voltage | Fluorescent Ballast Type | Ballast Product Code | Ballast Description | Fluorescent Ballast Long Description |
|--------------------------------------|---------------|--------------------------|----------------------|---|---|
| Fluorescent Lamps (continued) | | | | | |
| F32T8 (cont) | 347 | Instant start | 74105 | GE332MAX-G-N-347 | 3 or 2- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74113 | GE432MAXP347-H | 4 - F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74098 | GE432MAXP347-L | 4 or 3- F32T8 347V "L" .77 BF UltraMax® |
| | 347 | Instant start | 74095 | GE432MAXP347-N | 4 or 3- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74107 | GE432MAX-G-N-347 | 4 or 3- F32T8 347V "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 72258 | GE132MAXP-L/ULTRA | 1- F32T8 120 to 277 "L" .77BF UltraMax® |
| | 120-277 | Instant start | 72259 | GE132MAXP-N/ULTRA | 1- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 72269 | GE132MAX-G-N | 1- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Programmed start | 75954 | GE132-MVPS-H | 1 F32T8 120V-277V High Light 1.18 BF<10% THD UltraStart® |
| | 120-277 | Programmed start | 75952 | GE132-MVPS-L | 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® |
| | 120-277 | Programmed start | 75953 | GE132-MVPS-N | 1 F32T8 120V-277V Normal Light .88 BF<10% THD UltraStart® |
| | 120-277 | Instant start | 73233 | GE232MAXP90-S60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73234 | GE232MAXP90-V60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 72262 | GE232MAXP-L/ULTRA | 2 or 1- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 72266 | GE232MAXP-N/ULTRA | 2 or 1- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 71421 | GE232MAXP-N+ | 2 or 1- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 74803 | GE232MAX-G-H | 2 or 1- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 72273 | GE232MAX-G-L | 2 or 1- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 72275 | GE232MAX-G-N | 2 or 1- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Programmed start | 96720 | GE232-MVPS-L | 2 or 1 F32T8 120V-277V Low Watt .71 BF UltraStart® Program Start |
| | 120-277 | Programmed start | 96714 | GE232-MVPS-N | 2 or 1 F32T8 120V-277V Normal Light .88 BF UltraStart® |
| | 120-277 | Programmed start | 29671 | GE-232-MVPS-XL | 2 or 1 F32T8 120V-277V Ultra Low Watt .60 BF UltraStart® |
| | 120-277 | Instant start | 73231 | GE332MAXP90-S60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73232 | GE332MAXP90-V60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 78619 | GE332MAXP-H/ULTRA | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 78621 | GE332MAXP-L/ULTRA | 3 or 2- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 78623 | GE332MAXP-N/ULTRA | 3 or 2- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 71422 | GE332MAXP-N+ | 3 or 2- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 74461 | GE332MAX-G-H | 3 or 2- F32T8 120 to 277 "H" 1.18 BF |
| | 120-277 | Instant start | 74459 | GE332MAX-G-L | 3 or 2- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 74456 | GE332MAX-G-N | 3 or 2- F32T8 120 to 277 "N" .87 BF |
| | 120-277 | Programmed start | 29676 | GE-332-MVPS-H | 3 F32T8 120V-277V High Light 1.15 BF UltraStart® |
| | 120-277 | Programmed start | 96721 | GE332-MVPS-L | 3 F32T8 120V-277V Low Watt .71 BF UltraStart® |
| | 120-277 | Programmed start | 96715 | GE332-MVPS-N | 3 F32T8 120V-277V Normal Light .88 BF UltraStart® |
| | 120-277 | Programmed start | 29672 | GE-332-MVPS-XL | 3 F32T8 120V-277V Ultra Low Watt .60 BF UltraStart® |
| | 120-277 | Instant start | 73229 | GE432MAXP90-S60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73230 | GE432MAXP90-V60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 71723 | GE432MAXP-H/ULTRA | 4 or 3- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 78625 | GE432MAXP-L/ULTRA | 4 or 3- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 78627 | GE432MAXP-N/ULTRA | 4 or 3- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 71423 | GE432MAXP-N+ | 4 or 3- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 67911 | GE432MAX-G-H | 4 or 3- F32T8 120 to 277 "H" 1.15 BF UltraMax® |
| | 120-277 | Instant start | 74466 | GE432MAX-G-L | 4 or 3- F32T8 120 to 277 UltraMax® |
| | 120-277 | Instant start | 74463 | GE432MAX-G-N | 4 or 3- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Programmed start | 74476 | GE432-MVPS-H | 4 F32T8 120V-277V High Light 1.18 BF UltraStart® |
| | 120-277 | Programmed start | 71832 | GE432-MVPS-L | 4 F32T8 120V-277V Low Watt .71 BF UltraStart® |
| | 120-277 | Programmed start | 96716 | GE432-MVPS-N | 4 F32T8 120V-277V Normal Light .88 BF UltraStart® |
| 120-277 | Instant start | 74117 | GE632MAXP-H90 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® | |
| 120-277 | Instant start | 71497 | GE632MAXP-H90-S60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 1-wire powerline 100/60% step dim | |
| 120-277 | Instant start | 71731 | GE632MAXP-H90-V60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 2-wire 0-10V 100-60% continuous dim | |
| 120-277 | Instant start | 75948 | GEC140MAX-A | 1-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start | |
| 120-277 | Instant start | 71435 | GEC240MAX-A | 2 or 1-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start | |
| 120-277 | Instant start | 71436 | GEC340MAX-A | 3-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start | |
| F32T8/25W | 347 | Instant start | 74101 | GE132MAX-G-N-347 | 1- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74109 | GE232MAXP347-H | 2 or 1- F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74096 | GE232MAXP347-L | 2 or 1- F32T8 347V "L" .77 BF UltraMax® |
| | 347 | Instant start | 74093 | GE232MAXP347-N | 2 or 1- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74103 | GE232MAX-G-N-347 | 2 or 1- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74111 | GE332MAXP347-H | 3 - F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74097 | GE332MAXP347-L | 3 or 2- F32T8 347V "L" .77 BF UltraMax® |
| | 347 | Instant start | 74094 | GE332MAXP347-N | 3 or 2- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74105 | GE332MAX-G-N-347 | 3 or 2- F32T8 347V "N" .87 BF ProLine® |
| | 347 | Instant start | 74113 | GE432MAXP347-H | 4 - F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74098 | GE432MAXP347-L | 4 or 3- F32T8 347V "L" .77 BF UltraMax® |
| | 347 | Instant start | 74095 | GE432MAXP347-N | 4 or 3- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74107 | GE432MAX-G-N-347 | 4 or 3- F32T8 347V "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 72258 | GE132MAX-L/ULTRA | 1- F32T8 120 to 277 "L" .77BF UltraMax® |
| | 120-277 | Instant start | 72259 | GE132MAX-N/ULTRA | 1- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 72269 | GE132MAX-G-N | 1- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Programmed start | 75954 | GE132-MVPS-H | 1 F32T8 120V-277V High Light 1.18 BF<10% THD UltraStart® |

| Lamp Type | Voltage | Fluorescent Ballast Type | Ballast Product Code | Ballast Description | Fluorescent Ballast Long Description |
|--------------------------------------|---------|--------------------------|----------------------|---------------------|---|
| Fluorescent Lamps (continued) | | | | | |
| F32T8/25W (cont) | 120-277 | Programmed start | 75952 | GE132-MVPS-L | 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® |
| | 120-277 | Programmed start | 75953 | GE132-MVPS-N | 1 F32T8 120V-277V Normal Light .88 BF<10% THD UltraStart® |
| | 120-277 | Instant start | 73233 | GE232MAXP90-S60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73234 | GE232MAXP90-V60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 72262 | GE232MAXP-L/ULTRA | 2 or 1- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 72266 | GE232MAXP-N/ULTRA | 2 or 1- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 71421 | GE232MAXP-N+ | 2 or 1- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 74803 | GE232MAX-G-H | 2 or 1- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 72273 | GE232MAX-G-L | 2 or 1- F32T8 120 to 277 "L".77 BF UltraMax® |
| | 120-277 | Instant start | 72275 | GE232MAX-G-N | 2 or 1- F32T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Programmed start | 29675 | GE-232-MVPS-H | 2 F32T8 120V-277V High Light 1.15 BF UltraStart® |
| | 120-277 | Programmed start | 96720 | GE232-MVPS-L | 2 or 1 F32T8 120V-277V Low Watt .71 BF UltraStart® Program Start |
| | 120-277 | Programmed start | 96714 | GE232-MVPS-N | 2 or 1 F32T8 120V-277V Normal Light .88 BF UltraStart® |
| | 120-277 | Programmed start | 29671 | GE-232-MVPS-XL | 2 or 1 F32T8 120V-277V Ultra Low Watt .60 BF UltraStart® |
| | 120-277 | Instant start | 73231 | GE332MAXP90-S60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73232 | GE332MAXP90-V60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 78619 | GE332MAXP-H/ULTRA | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 78621 | GE332MAXP-L/ULTRA | 3 or 2- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 78623 | GE332MAX-N/ULTRA | 3 or 2- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 71422 | GE332MAXP-N+ | 3 or 2- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 74461 | GE332MAX-G-H | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 74459 | GE332MAX-G-L | 3 or 2- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 74456 | GE332MAX-G-N | 3 or 2- F32T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Programmed start | 29676 | GE-332-MVPS-H | 3 F32T8 120V-277V High Light 1.15 BF UltraStart® |
| | 120-277 | Programmed start | 96721 | GE332-MVPS-L | 3 F32T8 120V-277V Low Watt .71 BF UltraStart® |
| | 120-277 | Programmed start | 96715 | GE332-MVPS-N | 3 F32T8 120V-277V Normal Light .88 BF UltraStart® |
| | 120-277 | Programmed start | 29672 | GE-332-MVPS-XL | 3 F32T8 120V-277V Ultra Low Watt .60 BF UltraStart® |
| | 120-277 | Instant start | 73229 | GE432MAXP90-S60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73230 | GE432MAXP90-V60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 71723 | GE432MAXP-H/ULTRA | 4 or 3- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 71725 | GE432MAXP-L/ULTRA | 4 or 3- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 71727 | GE432MAXP-N/ULTRA | 4 or 3- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 71423 | GE432MAXP-N+ | 4 or 3- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 67911 | GE432MAX-G-H | 4 or 3- F32T8 120 to 277 "H" 1.15 BF UltraMax® |
| | 120-277 | Instant start | 74466 | GE432MAX-G-L | 4 or 3- F32T8 120 to 277 UltraMax® |
| | 120-277 | Instant start | 74463 | GE432MAX-G-N | 4 or 3- F32T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Programmed start | 74476 | GE432-MVPS-H | 4 F32T8 120V-277V High Light 1.18 BF UltraStart® |
| | 120-277 | Programmed start | 71832 | GE432-MVPS-L | 4 F32T8 120V-277V Low Watt .71 BF UltraStart® |
| | 120-277 | Programmed start | 96716 | GE432-MVPS-N | 4 F32T8 120V-277V Normal Light .88 BF UltraStart® |
| | 120-277 | Instant start | 74117 | GE632MAXP-H90 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 71497 | GE632MAXP-H90-S60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 1-wire powerline 100/60% step dim |
| | 120-277 | Instant start | 71731 | GE632MAXP-H90-V60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 2-wire 0-10V 100-60% continuous dim |
| F34T12 | 120 | Rapid start | 72110 | GE140RS120 | 1 F40 or F34T12 Rapid Start Electronic 120V "N" BF |
| | 120 | Rapid start | 97498 | GE240RS120 | 2 F40 or F34T12 Rapid Start 120V "N" BF ProLine® T12 |
| | 120-277 | Rapid start | 74472 | GE240RS-MV-N | 2 or 1- F40 or F34T12 Rapid Start 120 to 277 "N" BF |
| F35T5/HE | 120-277 | Programmed start | 68993 | GE228MVPS-MC | 2- F28T5 PRS UNV 50/60 Hz |
| F35T5/WM | 120-277 | Programmed start | 68993 | GE228MVPS-MC | 2 or 1 - F14-F35HE 120 to 277 UltraStart® PS Normal Light .95 BF A Can |
| F39T5/HO | 120-277 | Programmed start | 68976 | GE224MVPS-N | 1- F39T5HO PRS UNV 50/60 Hz |
| | 120-277 | Programmed start | 47540 | B239PUNV-DOG1C | 2- F39T5HO PRS UNV 50/60 Hz |
| F40/25BX | 120-277 | Instant start | 75948 | GEC140MAX-A | 1-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| | 120-277 | Instant start | 71435 | GEC240MAX-A | 2 or 1-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| | 120-277 | Instant start | 71436 | GEC340MAX-A | 3-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| F40/28BX | 120-277 | Instant start | 75948 | GEC140MAX-A | 1-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| | 120-277 | Instant start | 71435 | GEC240MAX-A | 2 or 1-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| | 120-277 | Instant start | 71436 | GEC340MAX-A | 3-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| F40/30BX | 120-277 | Instant start | 75948 | GEC140MAX-A | 1-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| | 120-277 | Instant start | 71435 | GEC240MAX-A | 2 or 1-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| | 120-277 | Programmed start | 71437 | GEC240MVPS-A | 2 or 1-FT40W/2G11 Biax®- 120-277V UltraStart® Programmed Start |
| | 120-277 | Instant start | 71436 | GEC340MAX-A | 3-FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start |
| F40T10 | 120-277 | Rapid start | 74472 | GE240RS-MV-N | 2 or 1- F40 or F34T12 Rapid Start 120 to 277 "N" BF |
| F40T12 | 120 | Rapid start | 72110 | GE140RS120 | 1 F40 or F34T12 Rapid Start Electronic 120V "N" BF |
| | 120 | Rapid start | 97498 | GE240RS120 | 2 F40 or F34T12 Rapid Start 120V "N" BF ProLine® T12 |
| | 120-277 | Rapid start | 74472 | GE240RS-MV-N | 2 or 1- F40 or F34T12 Rapid Start 120 to 277 "N" BF |
| F40T8 | 347 | Instant start | 74109 | GE232MAXP347-H | 2 or 1- F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74111 | GE332MAXP347-H | 3 - F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74113 | GE432MAXP347-H | 4 - F32T8 347V "H" 1.18 BF UltraMax® |
| | 120-277 | Programmed start | 75954 | GE132-MVPS-H | 1 F32T8 120V-277V High Light 1.18 BF<10% THD UltraStart® |
| | 120-277 | Programmed start | 75952 | GE132-MVPS-L | 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® |
| | 120-277 | Programmed start | 75953 | GE132-MVPS-N | 1 F32T8 120V-277V Normal Light .88 BF<10% THD UltraStart® |

Quick reference lamp to ballast selection guide (cont.)

| Lamp Type | Voltage | Fluorescent Ballast Type | Ballast Product Code | Ballast Description | Fluorescent Ballast Long Description |
|--------------------------------------|---------------|--------------------------|----------------------|---|---|
| Fluorescent Lamps (continued) | | | | | |
| F40T8 (cont) | 120-277 | Instant start | 73233 | GE232MAXP90-S60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73234 | GE232MAXP90-V60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 71421 | GE232MAXP-N+ | 2 or 1- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 74803 | GE232MAX-G-H | 2 or 1- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 72273 | GE232MAX-G-L | 2 or 1- F32T8 120 to 277 "L".77 BF UltraMax® |
| | 120-277 | Instant start | 72275 | GE232MAX-G-N | 2 or 1- F32T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 73199 | GE259MAXP-L/ULTRA | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 49767 | GE259MAXP-N/ULTRA | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 30176 | GE286MAXP-HO-N | 2 or 1- F96T8HO IS 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 73231 | GE332MAXP90-S60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73232 | GE332MAXP90-V60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 78619 | GE332MAXP-H/ULTRA | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 71422 | GE332MAXP-N+ | 3 or 2- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 74461 | GE332MAX-G-H | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 74459 | GE332MAX-G-L | 3 or 2- F32T8 120 to 277 "L".77 BF UltraMax® |
| | 120-277 | Instant start | 74456 | GE332MAX-G-N | 3 or 2- F32T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 73229 | GE432MAXP90-S60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim |
| | 120-277 | Instant start | 73230 | GE432MAXP90-V60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim |
| | 120-277 | Instant start | 71723 | GE432MAXP-H/ULTRA | 4 or 3- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 71423 | GE432MAXP-N+ | 4 or 3- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| 120-277 | Instant start | 67911 | GE432MAX-G-H | 4 or 3- F32T8 120 to 277 "H" 1.15 BF UltraMax® | |
| 120-277 | Instant start | 74466 | GE432MAX-G-L | 4 or 3- F32T8 120 to 277 UltraMax® | |
| 120-277 | Instant start | 74463 | GE432MAX-G-N | 4 or 3- F32T8 120 to 277 "N".87 BF UltraMax® | |
| 120-277 | Instant start | 71497 | GE632MAXP-H90-S60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 1-wire powerline 100/60% step dim | |
| 120-277 | Instant start | 71731 | GE632MAXP-H90-V60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 95% efficiency, 2-wire 0-10V 100-60% continuous dim | |
| F48T12 | 120-277 | Instant start | 74474 | GE260IS-MV-N | 2 or 1- F96T12 Instant Start 120 to 277 |
| F48T12/25W | 120 | Rapid start | 72110 | GE140RS120 | 1 F40 or F34T12 Rapid Start Electronic 120V "N" BF |
| F48T12/HO | 120-277 | Rapid start | 75671 | GE296HO-MV-N | 2 or 1- F96T12HO RS 120 to 277 MultiVolt ProLine® |
| F48T8HO | 120-277 | Instant start | 30176 | GE286MAXP-HO-N | 2 or 1- F96T8HO IS 120 to 277 "N".87 BF |
| | | | 74120 | GETR480/277-375W | Transformer 480 to 277V, <375 Watts (VA), F can |
| F54T5/HO | 120-277 | Programmed start | 67562 | GE254MVPS90-A | 2 or 1 - F54T5HO 120 to 277 UltraStart® PS High Temp F Can |
| | 120-277 | Programmed start | 33957 | GE254MVPS-D-1 | 2 or 1 - F54T5HO 120 to 277 UltraStart® PRS D Can |
| F54T5/WM | 120-277 | Programmed start | 67562 | GE254MVPS90-A | 2 or 1 - F54T5HO 120 to 277 UltraStart® PS High Temp F Can |
| | 120-277 | Programmed start | 33957 | GE254MVPS-D-1 | 2 or 1 - F54T5HO 120 to 277 UltraStart® PRS D Can |
| F58T8 | 120-277 | Programmed start | 67562 | GE254MVPS90-A | 2 or 1 - F54T5HO 120 to 277 UltraStart® PS High Temp F Can |
| | 120-277 | Programmed start | 33957 | GE254MVPS-D-1 | 2 or 1 - F54T5HO 120 to 277 UltraStart® PRS D Can |
| | 120-277 | Instant start | 30176 | GE286MAXP-HO-N | 2 or 1- F96T8HO IS 120 to 277 "N".87 BF |
| F60T12 | 120-277 | Instant start | 74474 | GE260IS-MV-N | 2 or 1- F96T12 Instant Start 120 to 277 |
| F60T12/HO | 120-277 | Rapid start | 75671 | GE296HO-MV-N | 2 or 1- F96T12HO RS 120 to 277 MultiVolt ProLine® |
| F60T8HO | 120-277 | Instant start | 30176 | GE-286-HO-MV-N | 2 or 1- F96T8HO IS 120 to 277 "N".87 BF |
| F64T12 | 120-277 | Instant start | 74474 | GE260IS-MV-N | 2 or 1- F96T12 Instant Start 120 to 277 |
| F70T8 | 120-277 | Rapid start | 75671 | GE296HO-MV-N | 2 or 1- F96T12HO RS 120 to 277 MultiVolt ProLine® |
| F72T12 | 120-277 | Instant start | 74474 | GE260IS-MV-N | 2 or 1- F96T12 Instant Start 120 to 277 |
| F72T12/HO | 120-277 | Rapid start | 75671 | GE296HO-MV-N | 2 or 1- F96T12HO RS 120 to 277 MultiVolt ProLine® |
| F72T8 | 120-277 | Instant start | 73199 | GE259MAXP-L/ULTRA | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 49767 | GE259MAXP-N/ULTRA | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| F72T8HO | 120-277 | Instant start | 30176 | GE286MAXP-HO-N | 2 or 1- F96T8HO IS 120 to 277 "N".87 BF |
| F80T5HO | 120-277 | Programmed start | 72280 | GE180MVPS-D | 1 - F80T5HO 120 to 277 UltraStart® PRS D Can |
| F84T12 | 120-277 | Instant start | 74474 | GE260IS-MV-N | 2 or 1- F96T12 Instant Start 120 to 277 |
| F8T9 | 120 | Rapid start | 97498 | GE240RS120 | 2 F40 or F34T12 Rapid Start 120V "N" BF ProLine® T12 |
| F96T12 | 120-277 | Instant start | 74474 | GE260IS-MV-N | 2 or 1- F96T12 Instant Start 120 to 277 |
| F96T12/HO | 120-277 | Rapid start | 75671 | GE296HO-MV-N | 2 or 1- F96T12HO RS 120 to 277 MultiVolt ProLine® |
| F96T12/WM | 120-277 | Instant start | 74474 | GE260IS-MV-N | 2 or 1- F96T12 Instant Start 120 to 277 |
| F96T12/WMP | 120-277 | Instant start | 74474 | GE260IS-MV-N | 2 or 1- F96T12 Instant Start 120 to 277 |
| | 347 | Instant start | 74099 | GE259MAX-G-N-347 | 2 or 1- F96T8 347V "N".87 BF UltraMax® |
| | 120-277 | Instant start | 73199 | GE259MAXP-L/ULTRA | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| F96T8 | 120-277 | Instant start | 49767 | GE259MAXP-N/ULTRA | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 74469 | GE259MAX-G-N | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 30176 | GE286MAXP-HO-N | 2 or 1- F96T8HO IS 120 to 277 "N".87 BF |
| F96T8/HO | 120-277 | Instant start | 30176 | GE286MAXP-HO-N | 2 or 1- F96T8HO IS 120 to 277 "N".87 BF |
| | 347 | Instant start | 74099 | GE25MAX G-N-347 | 2 or 1- F96T8 347V "N".87 BF |
| | 120-277 | Instant start | 73199 | GE259MAXP-L/ULTRA | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| F96T8/WM | 120-277 | Instant start | 49767 | GE259MAXP-N/ULTRA | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 74469 | GE259MAX-G-N-347 | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 30176 | GE286MAXP-HO-N | 2 or 1- F96T8HO IS 120 to 277 "N".87 BF UltraMax® |
| | 347 | Instant start | 74099 | GE259MAX-G-N-347 | 2 or 1- F96T8 347V "N".87 BF UltraMax® |
| | 120-277 | Instant start | 73199 | GE259MAXP-L/ULTRA | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| F96T8/WMP | 120-277 | Instant start | 49767 | GE259MAXP-N/ULTRA | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 74469 | GE259MAX-G-N | 2 or 1- F96T8 120 to 277 "N".87 BF UltraMax® |
| | 120-277 | Instant start | 30176 | GE286MAXP-HO-N | 2 or 1- F96T8HO IS 120 to 277 "N".87 BF UltraMax® |

| Lamp Type | Voltage | Fluorescent Ballast Type | Ballast Product Code | Ballast Description | Fluorescent Ballast Long Description |
|--------------------------------------|---------------|--------------------------|----------------------|--|--|
| Fluorescent Lamps (continued) | | | | | |
| FC12T5HO | 120-277 | Programmed start | 67562 | GE254MVPS90-A | 2 or 1 - F54T5HO 120 to 277 UltraStart® PS High Temp F Can |
| FC16T9 | 120-277 | Programmed start | 71445 | GEC226-MVPS-3W | 2-CFQ26W FT24 or 1-42W CFTR32 3 Way Mounting Kit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 71443 | GEC226-MVPS-BES | 2-CFQ26W FT24 or 1-42W CFTR32 Bottom Exit w Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 71444 | GEC226-MVPS-SE | 2-CFQ26W FT24 or 1-42W CFTR32 Side Exit 120-277V ProLine® PS |
| FC16T9/40W | 120-277 | Programmed start | 71443 | GEC226-MVPS-BES | 2-CFQ26W FT24 or 1-42W CFTR32 Bottom Exit w Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 71444 | GEC226-MVPS-SE | 2-CFQ26W FT24 or 1-42W CFTR32 Side Exit 120-277V ProLine® PS |
| FC16T9/ FC12T9 | 120 | Rapid start | 68190 | GEM1FC16T9RS120 | 2- FC12T9 FC16T9 FC8T9 FC12T9 120V Magnetic (726VLHWSTCP) |
| FC6T9 | 120 | Rapid start | 86227 | GEM1FC8T9RS120IP | 1- FC8T9 RS 120V Magnetic Ballast(547RSWSTCP) |
| FC8T9/FC12T9 | 120 | Rapid start | 89717 | GEM1FC12T9RS120 | 2 FC12T9 RS 120V Magnetic Ballast (449LRWSTCP) |
| | 120 | Rapid start | 68190 | GEM1FC16T9RS120 | 2- FC12T9 FC16T9 FC8T9 FC12T9 120V Magnetic (726VLHWSTCP) |
| FE15T8 | 347 | Instant start | 74101 | GE132MAX-G-N-347 | 1- F32T8 347V "N" .87 BF ProLine® |
| | 347 | Instant start | 74109 | GE232MAXP347-H | 2 or 1- F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74103 | GE232MAX-G-N-347 | 2 or 1- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74111 | GE332MAXP347-H | 3 - F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74105 | GE332MAX-G-N-347 | 3 or 2- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74113 | GE432MAXP347-H | 4 - F32T8 347V "H" 1.18 BF UltraMax® |
| | 347 | Instant start | 74098 | GE432MAXP347-L | 4 or 3- F32T8 347V "L" .77 BF UltraMax® |
| | 347 | Instant start | 74095 | GE432MAXP347-N | 4 or 3- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74107 | GE432MAX-G-N-347 | 4 or 3- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74096 | GE232MAXP347-L | 2 or 1- F32T8 347V "L" .77 BF UltraMax® |
| | 347 | Instant start | 74093 | GE232MAXP347-N | 2 or 1- F32T8 347V "N" .87 BF UltraMax® |
| | 347 | Instant start | 74094 | GE332MAXP347-N | 3 or 2- F32T8 347V "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 72258 | GE132MAXP-L/ULTRA | 1- F32T8 120 to 277 "L" .77BF UltraMax® |
| | 120-277 | Instant start | 72259 | GE132MAXP-N/ULTRA | 1- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Programmed start | 75954 | GE132-MVPS-H | 1 F32T8 120V-277V High Light 1.18 BF<10% THD UltraStart® |
| | 120-277 | Programmed start | 75952 | GE132-MVPS-L | 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® |
| | 120-277 | Programmed start | 75953 | GE132-MVPS-N | 1 F32T8 120V-277V Normal Light .88 BF<10% THD UltraStart® |
| | 120-277 | Instant start | 72262 | GE232MAXP-L/ULTRA | 2 or 1- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 72266 | GE232MAXP-N/ULTRA | 2 or 1- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 71421 | GE232MAXP-N+ | 2 or 1- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 78619 | GE332MAXP-H/ULTRA | 3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 78621 | GE332MAXP-L/ULTRA | 3 or 2- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 78623 | GE332MAXP-N/ULTRA | 3 or 2- F32T8 120 to 277 "N" .87 BF UltraMax® |
| | 120-277 | Instant start | 71422 | GE332MAXP-N+ | 3 or 2- F32T8 120 to 277 "N+" 1.0 BF UltraMax® |
| | 120-277 | Instant start | 71723 | GE432MAXP-H/ULTRA | 4 or 3- F32T8 120 to 277 "H" 1.18 BF UltraMax® |
| | 120-277 | Instant start | 78625 | GE432MAXP-L/ULTRA | 4 or 3- F32T8 120 to 277 "L" .77 BF UltraMax® |
| | 120-277 | Instant start | 78627 | GE432MAXP-N/ULTRA | 4 or 3- F32T8 120 to 277 "N" .87 BF UltraMax® |
| 120-277 | Instant start | 71423 | GE432MAXP-N+ | 4 or 3- F32T8 120 to 277 "N+" 1.0 BF UltraMax® | |
| FT24W/2G10 | 120-277 | Programmed start | 68976 | GE224MVPS-N | 2- F24T5HO PRS UNV 50/60 Hz |
| | 120-277 | Programmed start | 63097 | GEC226-MVPS-3W | 2-CFQ26W FT24 or 1-42W CFTR32 3 Way Mounting Kit 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63098 | GEC226-MVPS-BES | 2-CFQ26W FT24 or 1-42W CFTR32 Bottom Exit w Studs 120-277V ProLine® PS |
| | 120-277 | Programmed start | 63099 | GEC226-MVPS-SE | 2-CFQ26W FT24 or 1-42W CFTR32 Side Exit 120-277V ProLine® PS |
| FT24W/4P | 120-277 | Programmed start | 68976 | GE224MVPS-N | 2- F24T5HO PRS UNV 50/60 Hz |
| | 120 | Rapid start | 97498 | GE240RS120 | 2 F40 or F34T12 Rapid Start 120V "N" BF ProLine® T12 |
| FT36W/4P | 120-277 | Programmed start | 68976 | GE224MVPS-N | 2- F24T5HO PRS UNV 50/60 Hz |
| | 120-277 | Programmed start | 94131 | GE254MVPS-D-1 | 2 or 1 - F54T5HO 120 to 277 UltraStart® PRS D Can |
| FT39W/4P | 120-277 | Programmed start | 47540 | B239PUNV-DOG1C | 2- F39T5HO PRS UNV 50/60 Hz |
| | 120-277 | Programmed start | 47540 | B239PUNV-DOG1C | 2- F39T5HO PRS UNV 50/60 Hz |
| | 120-277 | Programmed start | 67562 | GE254MVPS90-A | 2 or 1 - F54T5HO 120 to 277 UltraStart® PS High Temp F Can |
| FT50W/4P | 120-277 | Programmed start | 67562 | GE254MVPS90-A | 2 or 1 - F54T5HO 120 to 277 UltraStart® PS High Temp F Can |
| | 120-277 | Programmed start | 94131 | GE254MVPS-D-1 | 2 or 1 - F54T5HO 120 to 277 UltraStart® PRS D Can |
| FT55W/4P | 120-277 | Programmed start | 67562 | GE254MVPS90-A | 2 or 1 - F54T5HO 120 to 277 UltraStart® PS High Temp F Can |
| | 120-277 | Programmed start | 94131 | GE254MVPS-D-1 | 2 or 1 - F54T5HO 120 to 277 UltraStart® PRS D Can |

Quick reference lamp to ballast selection guide (cont.)

| Lamp Type | Use with ANSI Lamp Types | Wattage | PC | New GE Description | Circuit Type | Frame Size | Voltage | Kit Capacitor | | Replacement Capacitor | | Replacement Ignitor | |
|---|--------------------------|---------|----------------|--------------------|--------------|-------------|---------------------|---------------|---------|-----------------------|-----------------|---------------------|--|
| | | | | | | | | uF | Min VAC | PC | Description | | |
| High Intensity Discharge (HID) Lamps | | | | | | | | | | | | | |
| Metal Halide | M110 | 50 | 63073 | GEM50MLTLA3D-5 | HX-HPF | 3x4 | 120/208/240/277 | 6 | 280 | 75425 | GECAP-6/280V-D | MH350-1A | |
| | M148 | 50 | 63073 | GEM50MLTLA3D-5 | HX-HPF | 3x4 | 120/208/240/277 | 6 | 280 | 75425 | GECAP-6/280V-D | MH350-1A | |
| | M143 | 70 | 67337 | GEM7048TLA3D-5 | HX-HPF | 3x4 | 120/480 | 8 | 280 | 75426 | GECAP-8/280V-D | MH350-1A | |
| | M143 | 70 | 86847 | GEM70MLTLA3D-5 | HX-HPF | 3x4 | 120/208/240/277 | 8 | 280 | 75426 | GECAP-8/280V-D | MH350-1A | |
| | M143 | 70 | 78517 | GEM70TRILC3-5 | HX-HPF | 3x4 | 120/277/347 | 8 | 300 | 75426 | GECAP-8/280V-D | MH350-1A | |
| | M85 | 70 | 86576 | 11210277CTC000C | HX-HPF | F-Can | 120/277 | | | | | | |
| | M98 | 70 | 63047 | GEMH70MVR-F | HX-HPF | F-Can | 120/277 | | | | | | |
| | M98 | 70 | 67337 | GEM7048TLA3D-5 | HX-HPF | 3x4 | 120/480 | 8 | 280 | 75426 | GECAP-8/280V-D | MH350-1A | |
| | M98 | 70 | 86847 | GEM70MLTLA3D-5 | HX-HPF | 3x4 | 120/208/240/277 | 8 | 280 | 75426 | GECAP-8/280V-D | MH350-1A | |
| | M140 | 100 | 67333 | GEM10048TLA3D-5 | HX-HPF | 3x4 | 120/480 | 12 | 280 | 75427 | GECAP-12/280V-D | MH350-1A | |
| | M140 | 100 | 86675 | GEM100MLTLC3D-5 | HX-HPF | 4.25x5.75 | 120/208/240/277 | 12 | 280 | 75427 | GECAP-12/280V-D | MH350-1A | |
| | M140 | 100 | 78519 | GEM100TRILC3-5 | HX-HPF | 3x4 | 120/277/347 | 12 | 300 | 75427 | GECAP-12/280V-D | MH350-1A | |
| | M90 | 100 | 63048 | GEMH100MVR-F | HX-HPF | F-Can | 120/277 | | | | | | |
| | M90 | 100 | 67333 | GEM10048TLA3D-5 | HX-HPF | 3x4 | 120/480 | 12 | 280 | 75427 | GECAP-12/280V-D | MH350-1A | |
| | M90 | 100 | 86675 | GEM100MLTLC3D-5 | HX-HPF | 4.25x5.75 | 120/208/240/277 | 12 | 280 | 75427 | GECAP-12/280V-D | MH350-1A | |
| | M92 | 100 | 67333 | GEM10048TLA3D-5 | HX-HPF | 3x4 | 120/480 | 12 | 280 | 75427 | GECAP-12/280V-D | MH350-1A | |
| | M92 | 100 | 86675 | GEM100MLTLC3D-5 | HX-HPF | 4.25x5.75 | 120/208/240/277 | 12 | 280 | 75427 | GECAP-12/280V-D | MH350-1A | |
| | M102 | 150 | 86711 | GEM15048TLC3D-5 | HX-HPF | 3x4 | 120/480 | 16 | 280 | 75428 | GECAP-16/280V-D | MH350-1A | |
| | M102 | 150 | 86718 | GEM150MLTLC3D-5 | HX-HPF | 3x4 | 120/208/240/277 | 16 | 280 | 75428 | GECAP-16/280V-D | MH350-1A | |
| | M102 | 150 | 78520 | GEM150TRILC3-5 | HX-HPF | 3x4 | 120/277/347 | 16 | 300 | 75428 | GECAP-16/280V-D | MH350-1A | |
| | M107 | 150 | 86711 | GEM15048TLC3D-5 | HX-HPF | 3x4 | 120/480 | 16 | 280 | 75428 | GECAP-16/280V-D | MH350-1A | |
| | M107 | 150 | 86718 | GEM150MLTLC3D-5 | HX-HPF | 3x4 | 120/208/240/277 | 16 | 280 | 75428 | GECAP-16/280V-D | MH350-1A | |
| | M142 | 150 | 86711 | GEM15048TLC3D-5 | HX-HPF | 3x4 | 120/480 | 16 | 280 | 75428 | GECAP-16/280V-D | MH350-1A | |
| | M142 | 150 | 86718 | GEM150MLTLC3D-5 | HX-HPF | 3x4 | 120/208/240/277 | 16 | 280 | 75428 | GECAP-16/280V-D | MH350-1A | |
| | M57 | 175 | 86563 | 1110245SCTC000I | CWA | F-Can | 120/277 | | | | | | |
| | M57 | 175 | 87210 | GEM175ML5AC3-5 | CWA | 3x4 | 120/208/240/277/480 | 10 | 400 | 75433 | GECAP-10/400V-O | N/A | |
| | M57 | 175 | 86741 | GEM175MLTAC3-5 | CWA | 3x4 | 120/208/240/277 | 10 | 400 | 75433 | GECAP-10/400V-O | N/A | |
| | M57 | 175 | 78521 | GEM175TRIAC3-5 | CWA | 3x4 | 120/277/347 | 12 | 450 | | | N/A | |
| | M58 | 250 | 63050 | GEMH175MVA-F | CWA | F-Can | 120/277 | | | | | | |
| | M58 | 250 | 87211 | GEM250ML5AC3-5 | CWA | 3x4 | 120/208/240/277/480 | 15 | 400 | 75434 | GECAP-15/400V-O | N/A | |
| | M58 | 250 | 87212 | GEM250ML5AC4-5 | CWA | 4.25x4.75 | 120/208/240/277/480 | 15 | 400 | 75434 | GECAP-15/400V-O | N/A | |
| | M58 | 250 | 86765 | GEM250MLTAC3-5 | CWA | 4.25x4.75 | 120/208/240/277 | 15 | 400 | 75434 | GECAP-15/400V-O | N/A | |
| | M58 | 250 | 78522 | GEM250TRIAC4-5 | CWA | 3x4 | 120/277/347 | 15 | 450 | 75434 | GECAP-15/400V-O | N/A | |
| | M58 | 250 | 63051 | GEMH250MVA-F | CWA | F-Can | 120/277 | | | | | | |
| | M59 | 400 | 63052 | GEMH400MVA-F | CWA | F-Can | 120/277 | | | | | | |
| | M59 | 400 | 86803 | GEM40048TAC4-5 | CWA | 4.25x4.75 | 120/480 | 24 | 400 | 75435 | GECAP-24/400V-O | N/A | |
| | M59 | 400 | 72300 | GEM400ML5AA4-5 | CWA | 4.25x4.75 | 120/208/240/277/480 | 24 | 400 | 75435 | GECAP-24/400V-O | N/A | |
| | M59 | 400 | 72149 | GEM400MLTAA4-5 | CWA | 4.25x4.75 | 120/208/240/277 | 24 | 400 | 75435 | GECAP-24/400V-O | N/A | |
| | M59 | 400 | 78523 | GEM400TRIAC4-5 | CWA | 4.25x4.75 | 120/277/347 | 24 | 450 | 75668 | GECAP-24/480V-O | N/A | |
| | M47 | 1000 | 63069 | GEM100048TAC5-5 | CWA | 4.25x6.00 | 120/480 | 24 | 480 | 75668 | GECAP-24/480V-O | N/A | |
| | M47 | 1000 | 87213 | GEM1000ML5AA5-5 | CWA | 4.25x6.00 | 120/208/240/277/480 | 24 | 480 | 75668 | GECAP-24/480V-O | N/A | |
| | M47 | 1000 | 86655 | GEM1000MLTAA5-5 | CWA | 4.25x6.00 | 120/208/240/277 | 24 | 480 | 75668 | GECAP-24/480V-O | N/A | |
| | M47 | 1000 | 78524 | GEM1000TRIAC5-5 | CWA | 4.25x6.00 | 120/277/347 | 24 | 540 | 75668 | GECAP-24/480V-O | N/A | |
| | M48 | 1500 | 86693 | GEM150048TAC5-5 | CWA | 4.25x6.00 | 120/480 | 32 | 525 | 75438 | GECAP-32/525V-O | N/A | |
| | M48 | 1500 | 86698 | GEM1500MLTAC5-5 | CWA | 4.25x6.00 | 120/208/240/277 | 32 | 525 | 75438 | GECAP-32/525V-O | N/A | |
| Pulse Start | M156 | 20 | 87490 | GEMH20-MLF-120 | eHID | 3.7x1.6x1.0 | 120 | | | | | Internal | |
| | M130 | 39 | 87501 | GEMH39-MSF-120 | eHID | 3.7x3.0x1.2 | 120 | | | | | Internal | |
| | C148 | 50 | 87516 | GEMH50-MSF-120 | eHID | 3.7x3.0x1.2 | 120 | | | | | Internal | |
| | M110 | 50 | 87516 | GEMH50-MSF-120 | eHID | 3.7x3.0x1.2 | 120 | | | | | Internal | |
| | M148 | 50 | 87516 | GEMH50-MSF-120 | eHID | 3.7x3.0x1.2 | 120 | | | | | Internal | |
| | C143 | 70 | 87531 | GEMH70-MSF-120 | eHID | 3.7x3.0x1.2 | 120 | | | | | Internal | |
| | C143 | 70 | 87546 | GEMH70-SLJ-MV | eHID | 7.3x2.6x2.2 | 120-277 | | | | | Internal | |
| | M139 | 70 | 87531 | GEMH70-MSF-120 | eHID | 3.7x3.0x1.2 | 120 | | | | | Internal | |
| | M139 | 70 | 87531 | GEMH70-MSF-120 | eHID | 3.7x3.0x1.2 | 120 | | | | | Internal | |
| | M143 | 70 | 87531 | GEMH70-MSF-120 | eHID | 3.7x3.0x1.2 | 120 | | | | | Internal | |
| | M143 | 70 | 87546 | GEMH70-SLJ-MV | eHID | 7.3x2.6x2.2 | 120-277 | | | | | Internal | |
| | M98 | 70 | 87531 | GEMH70-MSF-120 | eHID | 3.7x3.0x1.2 | 120 | | | | | Internal | |
| | M98 | 70 | 87546 | GEMH70-SLJ-MV | eHID | 7.3x2.6x2.2 | 120-277 | | | | | Internal | |
| | C140 | 100 | 87561 | GEMH100-SLJ-MV | eHID | 7.3x2.6x2.2 | 120-277 | | | | | Internal | |
| | M140 | 100 | 87561 | GEMH100-SLJ-MV | eHID | 7.3x2.6x2.2 | 120-277 | | | | | Internal | |
| | M90 | 100 | 87561 | GEMH100-SLJ-MV | eHID | 7.3x2.6x2.2 | 120-277 | | | | | Internal | |
| | C142 | 150 | 87576 | GEMH150-SLJ-MV | eHID | 7.3x2.6x2.2 | 120-277 | | | | | Internal | |
| | M102 | 150 | 87576 | GEMH150-SLJ-MV | eHID | 7.3x2.6x2.2 | 120-277 | | | | | Internal | |
| | M142 | 150 | 87576 | GEMH150-SLJ-MV | eHID | 7.3x2.6x2.2 | 120-277 | | | | | Internal | |
| | M137 | 175 | 86876 | GEP17548TAC3-5 | CWA | 3x4 | 120/480 | 10 | 400 | 75433 | GECAP-10/400V-O | MH350-1A | |
| | M137 | 175 | 67335 | GEP175MLTAC3-5 | CWA | 3x4 | 120/208/240/277 | 10 | 400 | 75433 | GECAP-10/400V-O | MH350-1A | |
| | M152 | 175 | 86876 | GEP17548TAC3-5 | CWA | 3x4 | 120/480 | 10 | 400 | 75433 | GECAP-10/400V-O | MH350-1A | |
| | M152 | 175 | 67335 | GEP175MLTAC3-5 | CWA | 3x4 | 120/208/240/277 | 10 | 400 | 75433 | GECAP-10/400V-O | MH350-1A | |
| | M152 | 175 | 78525 | GEP175TRIAC3-5 | CWA | 3x4 | 120/277/347 | 12 | 450 | | | MH350-1A | |
| M136 | 250 | 78526 | GEP200TRIAC3-5 | CWA | 3x4 | 120/277/347 | 16 | 450 | | | MH350-1A | | |
| M138 | 250 | 67336 | GEP25048TAA4-5 | CWA | 4.25x4.75 | 120/480 | 15 | 400 | 75434 | GECAP-15/400V-O | MH350-1A | | |

| Lamp Type | Use with ANSI Lamp Types | Wattage | PC | New GE Description | Circuit Type | Frame Size | Voltage | Kit Capacitor | | Replacement Capacitor | | Replacement Ignitor | |
|---|--------------------------|---------|-----------------|--------------------|--------------|---------------------|---------------------|---------------|---------|-----------------------|-------------------|---------------------|-----------|
| | | | | | | | | uF | Min VAC | PC | Description | | |
| High Intensity Discharge (HID) Lamps (continued) | | | | | | | | | | | | | |
| Pulse Start (cont) | M138 | 250 | 67344 | GEP250MLTAA4-5 | CWA | 4.25x4.75 | 120/208/240/277 | 15 | 400 | 75434 | GECAP-15/400V-O | MH350-1A | |
| | M138 | 250 | 78527 | GEP250TRIAC4-5 | CWA | 4.25x4.75 | 120/277/347 | 15 | 450 | 75434 | GECAP-15/400V-O | MH350-1A | |
| | M153 | 250 | 67336 | GEP25048TAA4-5 | CWA | 4.25x4.75 | 120/480 | 15 | 400 | 75434 | GECAP-15/400V-O | MH350-1A | |
| | M153 | 250 | 67344 | GEP250MLTAA4-5 | CWA | 4.25x4.75 | 120/208/240/277 | 15 | 400 | 75434 | GECAP-15/400V-O | MH350-1A | |
| | CMH320 | 320 | 29377 | GE-MH-250-400-MA | eHID | | 208-277 | | | | | | Internal |
| | M132 | 320 | 67342 | GEP32048TAA4-5 | CWA | 4.25x4.75 | 120/480 | 21 | 345 | 75431 | GECAP-21/345V-O | MH350-1A | |
| | M132 | 320 | 67345 | GEP320MLTAA4-5 | CWA | 4.25x4.75 | 120/208/240/277 | 21 | 345 | 75431 | GECAP-21/345V-O | MH350-1A | |
| | M132 | 320 | 78528 | GEP320TRIAC4-5 | CWA | 4.25x4.75 | 120/277/347 | 21 | 450 | 75431 | GECAP-21/345V-O | MH350-1A | |
| | M154 | 320 | 67342 | GEP32048TAA4-5 | CWA | 4.25x4.75 | 120/480 | 21 | 345 | 75431 | GECAP-21/345V-O | MH350-1A | |
| | M154 | 320 | 67345 | GEP320MLTAA4-5 | CWA | 4.25x4.75 | 120/208/240/277 | 21 | 345 | 75431 | GECAP-21/345V-O | MH350-1A | |
| | M154 | 320 | 78528 | GEP320TRIAC4-5 | CWA | 4.25x4.75 | 120/277/347 | 21 | 345 | 75431 | GECAP-21/345V-O | MH350-1A | |
| | M131 | 350 | 67346 | GEP350MLTAA4-5 | CWA | 4.25x4.75 | 120/208/240/277 | 22.5 | 345 | 75432 | GECAP-22.5/345V-O | MH350-1A | |
| | M131 | 350 | 78529 | GEP350TRIAC4-5 | CWA | 4.25x4.75 | 120/277/347 | 22 | 450 | | | | MH350-1A |
| | M135 | 400 | 67347 | GEP400MLTAA4-5 | CWA | 4.25x4.75 | 120/480 | 24 | 400 | 75435 | GECAP-24/400V-O | MH350-1A | |
| | M135 | 400 | 67347 | GEP400MLTAA4-5 | CWA | 4.25x4.75 | 120/208/240/277 | 24 | 400 | 75435 | GECAP-24/400V-O | MH350-1A | |
| | M135 | 400 | 78530 | GEP400TRIAC4-5 | CWA | 4.25x4.75 | 120/277/347 | 26 | 450 | 75437 | GECAP-26/545V-O | MH350-1A | |
| | M155 | 400 | 67347 | GEP400MLTAA4-5 | CWA | 4.25x4.75 | 120/208/240/277 | 24 | 400 | 75435 | GECAP-24/400V-O | MH350-1A | |
| | M155 | 400 | 67341 | GEP40048TAA4-5 | CWA | 4.25x4.75 | 120/480 | 24 | 400 | 75435 | GECAP-24/400V-O | MH350-1A | |
| | M149 | 750 | 67343 | GEP75048TAA5-5 | CWA | 4.25x6.00 | 120/480 | 28 | 400 | 75436 | GECAP-28/400V-O | MH750-1B | |
| | M149 | 750 | 67359 | GEP750MLTAA5-5 | CWA | 4.25x6.00 | 120/208/240/277 | 28 | 400 | 75436 | GECAP-28/400V-O | MH750-1B | |
| M149 | 750 | 78531 | GEP750TRIAC5-5 | CWA | 4.25x6.00 | 120/277/347 | 28 | 450 | 75436 | GECAP-28/400V-O | MH750-1B | | |
| M141 | 1000 | 67349 | GEP1000ML5AA5-5 | CWA | 4.25x6.00 | 120/208/240/277/480 | 24 | 480 | 75668 | GECAP-24/480V-O | HPS1000-4B | | |
| M141 | 1000 | 67348 | GEP1000MLTAA5-5 | CWA | 4.25x6.00 | 120/208/240/277 | 24 | 480 | 75668 | GECAP-24/480V-O | HPS1000-4B | | |
| M141 | 1000 | 78532 | GEP1000TRIAC5-5 | CWA | 4.25x6.00 | 120/277/347 | 25 | 450 | | | | HPS1000-4B | |
| High Pressure Sodium | S68 | 50 | 87152 | GES50MLTLC3D-5 | HX-HPF | 3x4 | 120/208/240/277 | 5 | 300 | 75429 | GECAP-5/300V-D | HPS150-3A | |
| | S62 | 70 | 86596 | 12210237CTC000I | HX-HPF | F-Can | 120/277 | | | | | Internal | |
| | S62 | 70 | 86605 | 1233142U000I | R-HPF, R-NPF | 2.81x3.94 | 120 | | | | | Internal | |
| | S68 | 70 | 78533 | GES50TRILC3-5 | HX-HPF | 3x4 | 120/277/347 | 5 | 300 | | | | HPS150-3A |
| | S62 | 70 | 86456 | GES7048TLC3D-5 | HX-HPF | 3x4 | 120/480 | 7 | 300 | 75430 | GECAP-7/300V-D | HPS150-3A | |
| | S62 | 70 | 86587 | GES70MLTLC3D-5 | HX-HPF | 3x4 | 120/208/240/277 | 7 | 300 | 75430 | GECAP-7/300V-D | HPS150-3A | |
| | S62 | 70 | 78534 | GES70TRILC3-5 | HX-HPF | 3x4 | 120/277/347 | 7 | 300 | 75430 | GECAP-7/300V-D | HPS150-3A | |
| | S54 | 100 | 87068 | GES10048TLC3D-5 | HX-HPF | 3x4 | 120/480 | 10 | 280 | 75433 | GECAP-10/400V-O | HPS150-3A | |
| | S54 | 100 | 87074 | GES100MLTLC3D-5 | HX-HPF | 3x4 | 120/208/240/277 | 10 | 280 | 75433 | GECAP-10/400V-O | HPS150-3A | |
| | S54 | 100 | 78535 | GES100TRILC3-5/2 | HX-HPF | 3x4 | 120/277/347 | 10 | 300 | 75433 | GECAP-10/400V-O | HPS150-3A | |
| | S55 | 150 | 86606 | 1233154U000I | R-NPF | 2.81x3.94 | 120 | | | | | | Internal |
| | S55 | 150 | 67339 | GES15048TLA3D-5 | HX-HPF | 3x4 | 120/480 | 14 | 280 | 75669 | GECAP-14/280V-D | HPS150-3A | |
| | S55 | 150 | 87094 | GES150MLTLC3D-5 | HX-HPF | 3x4 | 120/208/240/277 | 14 | 280 | 75669 | GECAP-14/280V-D | HPS150-3A | |
| | S55 | 150 | 78536 | GES150TRILC3-5 | HX-HPF | 3x4 | 120/277/347 | 14 | 300 | 75669 | GECAP-14/280V-D | HPS150-3A | |
| | S50 | 250 | 87214 | GES250ML5AC4-5 | CWA | 4.25x4.75 | 120/208/240/277/480 | 35 | 240 | 75422 | GECAP-35/240V-O | HPS400-3A | |
| | S50 | 250 | 87121 | GES250MLTAC4-5 | CWA | 4.25x4.75 | 120/208/240/277 | 35 | 240 | 75422 | GECAP-35/240V-O | HPS400-3A | |
| | S50 | 250 | 78537 | GES250TRIAC4-5 | CWA | 4.25x4.75 | 120/277/347 | 33 | 300 | | | | HPS400-3A |
| | S51 | 400 | 87198 | GES40048TAC4-5 | CWA | 4.25x4.75 | 120/480 | 55 | 240 | 75423 | GECAP-55/240V-O | HPS400-3A | |
| | S51 | 400 | 63066 | GES400ML5AA4-5 | CWA | 4.25x4.75 | 120/208/240/277/480 | 55 | 240 | 75423 | GECAP-55/240V-O | HPS400-3A | |
| | S51 | 400 | 87164 | GES400MLTAC4-5 | CWA | 4.25x4.75 | 120/208/240/277 | 55 | 240 | 75423 | GECAP-55/240V-O | HPS400-3A | |
| S51 | 400 | 78539 | GES400TRIAC4-5 | CWA | 4.25x4.75 | 120/277/347 | 55 | 300 | 75423 | GECAP-55/240V-O | HPS400-3A | | |
| S52 | 1000 | 67351 | GES100048TAA5-5 | CWA | 4.25x6.00 | 120/480 | 26 | 525 | 75437 | GECAP-26/525V-O | HPS1000-4B | | |
| S52 | 1000 | 87218 | GES1000ML5AC5-5 | CWA | 4.25x6.00 | 120/208/240/277/480 | 26 | 525 | 75437 | GECAP-26/525V-O | HPS1000-4B | | |
| S52 | 1000 | 87056 | GES1000MLTAC5-5 | CWA | 4.25x6.00 | 120/208/240/277 | 26 | 525 | 75437 | GECAP-26/525V-O | HPS1000-4B | | |
| S52 | 1000 | 78540 | GES1000TRIAC5-5 | CWA | 4.25x6.00 | 120/277/347 | 26 | 540 | 75437 | GECAP-26/525V-O | HPS1000-4B | | |
| Mercury | H39 | 175 | 63078 | GEM175ML5AA3-5 | CWA | 3x4 | 120/208/240/277/480 | 10 | 400 | 75433 | GECAP-10/400V-O | N/A | |
| | H39 | 175 | 86741 | GEM175MLTAC3-5 | CWA | 3x4 | 120/208/240/277 | 10 | 400 | 75433 | GECAP-10/400V-O | N/A | |
| | H37 | 250 | 87211 | GEM250ML5AC3-5 | CWA | 3x4 | 120/208/240/277/480 | 15 | 400 | 75434 | GECAP-15/400V-O | N/A | |
| | H37 | 250 | 87212 | GEM250ML5AC4-5 | CWA | 4.25x4.75 | 120/208/240/277/480 | 15 | 400 | 75434 | GECAP-15/400V-O | N/A | |
| | H37 | 250 | 63077 | GEM250MLTAA3-5 | CWA | 3x4 | 120/208/240/277 | 15 | 400 | 75434 | GECAP-15/400V-O | N/A | |
| | H33 | 400 | 86803 | GEM40048TAC4-5 | CWA | 4.25x4.75 | 120/480 | 24 | 400 | 75435 | GECAP-24/400V-O | N/A | |
| | H33 | 400 | 72300 | GEM400ML5AA4-5 | CWA | 4.25x4.75 | 120/208/240/277/480 | 24 | 400 | 75435 | GECAP-24/400V-O | N/A | |
| | H33 | 400 | 72149 | GEM400MLTAA4-5 | CWA | 4.25x4.75 | 120/208/240/277 | 24 | 400 | 75435 | GECAP-24/400V-O | N/A | |
| | H36 | 1000 | 63059 | GEM100048TAA5-5 | CWA | 4.25x6.00 | 120/480 | 24 | 480 | 75668 | GECAP-24/480V-O | N/A | |
| | H36 | 1000 | 87213 | GEM1000ML5AC5-5 | CWA | 4.25x6.00 | 120/208/240/277/480 | 24 | 480 | 75668 | GECAP-24/480V-O | N/A | |
| H36 | 1000 | 86655 | GEM1000MLTAC5-5 | CWA | 4.25x6.00 | 120/208/240/277 | 24 | 480 | 75668 | GECAP-24/480V-O | N/A | | |

Quick reference ballast selection guide

| | Std Pack Prod Code | Description | Application | Product Page Number | Pallet Pack | DIY Pack | Std Pack Units Per Carton |
|---|-----------------------|-------------------|---|------------------------|----------------|-------------|---------------------------------|
| T8 Fluorescent Ballasts | | | | | | | |
| T8 INSTANT START BALLASTS | | | | | | | |
| UltraMax® Professional Series Instant Start Multi-Voltage 120-277V High-Efficiency | | | | | | | |
| For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps | | | | | | | |
| | 72258 | GE132MAXP-L/ULTRA | 1 - F32T8 120 to 277 "L" .77 BF UltraMax® P | 10-7 | | | 10 |
| | 72259 | GE132MAXP-N/ULTRA | 1 - F32T8 120 to 277 "N" .87 BF UltraMax® P | 10-8 | | | 10 |
| | 63885 | GE132MAXP-H/ULTRA | 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® P | 10-9 | | | 10 |
| | 73190 | GE232MAXP-H/ULTRA | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® P | 10-10 | 73191 | | 10 |
| | 72262 | GE232MAXP-L/ULTRA | 2 or 1 - F32T8 120 to 277 "L" .77 BF UltraMax® P | 10-11 | 72263 | | 10 |
| | 72266 | GE232MAXP-N/ULTRA | 2 or 1 - F32T8 120 to 277 "N" .87 BF UltraMax® P | 10-12 | 72267 | | 10 |
| | 71421 | GE232MAXP-N+ | 2 or 1 - F32T8 120 to 277 "N+" 1.0 BF UltraMax® P | 10-13 | | | 10 |
| | 78619 | GE332MAXP-H/ULTRA | 3 or 2 - F32T8 120 to 277 "H" 1.18 BF UltraMax® P | 10-14 | 78620 | | 10 |
| | 78621 | GE332MAXP-L/ULTRA | 3 or 2 - F32T8 120 to 277 "L" .77 BF UltraMax® P | 10-15 | | | 10 |
| | 78623 | GE332MAXP-N/ULTRA | 3 or 2 - F32T8 120 to 277 "N" .87 BF UltraMax® P | 10-16 | | 71722 | 10 |
| | 71422 | GE332MAXP-N+ | 3 or 2 - F32T8 120 to 277 "N+" 1.0 BF UltraMax® P | 10-17 | | | 10 |
| | 71723 | GE432MAXP-H/ULTRA | 4 or 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® P | 10-18 | 71724 | | 10 |
| | 78625 | GE432MAXP-L/ULTRA | 4 or 3 - F32T8 120 to 277 "L" .77 BF UltraMax® P | 10-19 | | | 10 |
| | 78627 | GE432MAXP-N/ULTRA | 4 or 3 - F32T8 120 to 277 "N" .87 BF UltraMax® P | 10-20 | | 71730 | 10 |
| | 71423 | GE432MAXP-N+ | 4 or 3 - F32T8 120 to 277 "N+" 1.0 BF UltraMax® P | 10-21 | | | 10 |
| | 74117 | GE632MAXP-H90 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® P | 10-22 | | | 10 |
| For 46-59W 4 ft - 8 ft Slimline Lamps | | | | | | | |
| | 49767 | GE259MAXP-N/ULTRA | 2 or 1 - F96T8 120 to 277 "N" .87 BF UltraMax® P | 10-23 | | 23954 | 10 |
| | 73199 | GE259MAXP-L/ULTRA | 2 or 1 - F96T8 120 to 277 "L" .77 BF UltraMax® P | 10-24 | | | 10 |
| UltraMax® Professional Series MultiVolt High Output 120-277V | | | | | | | |
| For 44-86W 4 ft - 8 ft HO Lamps | | | | | | | |
| | 63888 | GE286MAXP-HO-N | 2 or 1 - F96T8HO IS 120 to 277 "N" 0.87 BF | 10-25 | | | 10 |
| UltraMax® Professional Series 347V High-Efficiency | | | | | | | |
| | 74093 | GE232MAXP347-N | 2 or 1 - F32T8 347V "N" .87 BF UltraMax® P | 10-26 | | | 10 |
| | 67435 | GE232MAXP347-N+ | 2 or 1 - F32T8 347V "N+" 1.0 BF UltraMax® P | 10-27 | | | 10 |
| | 74094 | GE332MAXP347-N | 3 or 2 - F32T8 347V "N" .87 BF UltraMax® P | 10-28 | | | 10 |
| | 74095 | GE432MAXP347-N | 4 or 3 - F32T8 347V "N" .87 BF UltraMax® P | 10-29 | | | 10 |
| | 74096 | GE232MAXP347-L | 2 or 1 - F32T8 347V "L" .77 BF UltraMax® P | 10-30 | | | 10 |
| | 74097 | GE332MAXP347-L | 3 or 2 - F32T8 347V "L" .77 BF UltraMax® P | 10-31 | | | 10 |
| | 74098 | GE432MAXP347-L | 4 or 3 - F32T8 347V "L" .77 BF UltraMax® P | 10-32 | | | 10 |
| | 74109 | GE232MAXP347-H | 2 or 1 - F32T8 347V "H" 1.18 BF UltraMax® P | 10-33 | | | 10 |
| | 74111 | GE332MAXP347-H | 3 or 2 - F32T8 347V "H" 1.18 BF UltraMax® P | 10-34 | | | 10 |
| | 74113 | GE432MAXP347-H | 4 or 3 - F32T8 347V "H" 1.18 BF UltraMax® P | 10-35 | | | 10 |
| UltraMax® Professional Series 480V High-Efficiency | | | | | | | |
| | 62718 | GE232MAXP480-H | 2 or 1 - F32T8 480V "H" 1.18 BF UltraMax® P | 10-36 | | | 10 |
| | 62719 | GE332MAXP480-H | 3 or 2 - F32T8 480V "H" 1.18 BF UltraMax® P | 10-37 | | | 10 |
| | 62720 | GE432MAXP480-H | 4 or 3 - F32T8 480V "H" 1.18 BF UltraMax® P | 10-38 | | | 10 |
| UltraMax® General Series T8 Multi-Voltage 120-277V | | | | | | | |
| For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps | | | | | | | |
| | 72269 | GE132MAX-G-N | 1 - F32T8 120 to 277 "N" .87 BF Multivolt UltraMax® G | 10-39 | 72270 | | 10 |
| | 74803 | GE232MAX-G-H | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF Multivolt UltraMax® G | 10-40 | 74804 | | 10 |
| | 72273 | GE232MAX-G-L | 2 or 1 - F32T8 120 to 277 "L" .77 BF Multivolt UltraMax® G | 10-41 | | | 10 |
| | 72275 | GE232MAX-G-N | 2 or 1 - F32T8 120 to 277 "N" .87 BF Multivolt UltraMax® G | 10-42 | 72276 | 93883 | 10 |
| | 74461 | GE332MAX-G-H | 3 or 2 - F32T8 120 to 277 "H" 1.15 BF Multivolt UltraMax® G | 10-43 | 74462 | | 10 |
| | 74459 | GE332MAX-G-L | 3 or 2 - F32T8 120 to 277 "L" .77 BF Multivolt UltraMax® G | 10-44 | | | 10 |
| | 74456 | GE332MAX-G-N | 3 or 2 - F32T8 120 to 277 "N" .87 BF Multivolt UltraMax® G | 10-45 | 74457 | 93869 | 10 |
| | 67911 | GE432MAX-G-H | 4 or 3 - F32T8 120 to 277 "H" 1.18 BF Multivolt UltraMax® G | 10-46 | | | 10 |
| | 74466 | GE432MAX-G-L | 4 or 3 - F32T8 120 to 277 "L" .77 BF Multivolt UltraMax® G | 10-47 | | | 10 |
| | 74463 | GE432MAX-G-N | 4 or 3 - F32T8 120 to 277 "N" .87 BF Multivolt UltraMax® G | 10-48 | 74464 | 93868 | 10 |
| For 46-59W 4 ft - 8 ft Slimline Lamps | | | | | | | |
| | 72271 | GE159MAX-G-N | 1 - F96T8 120 to 277 "N" .87 BF UltraMax® G | 10-49 | 72272 | | 10 |
| | 74469 | GE259MAX-G-N | 2 or 1 - F96T8 120 to 277 "N" .87 BF UltraMax® G | 10-50 | 74470 | 93879 | 10 |

Quick reference ballast selection guide (cont.)

| | Std Pack Prod Code | Description | Application | Product Page Number | Pallet Pack | DIY Pack | Std Pack Units Per Carton |
|---|--------------------|-----------------|---|---------------------|-------------|----------|---------------------------|
| T8 Fluorescent Ballasts (continued) | | | | | | | |
| T8 INSTANT START BALLASTS (continued) | | | | | | | |
| UltraMax® General Series 347V Instant Start High Performance | | | | | | | |
| | 74101 | GE132MAX-G-347 | 1 - F32T8 347V "N" 0.87 BF UltraMax® G | 10-51 | | | 10 |
| | 74103 | GE232MAX-G-347 | 2 or 1 - F32T8 347V "N" 0.87 BF UltraMax® G | 10-52 | | | 10 |
| | 74105 | GE332MAX-G-347 | 3 or 2 - F32T8 347V "N" 0.87 BF UltraMax® G | 10-53 | | | 10 |
| | 74107 | GE432MAX-G-347 | 4 or 3 - F32T8 347V "N" 0.87 BF UltraMax® G | 10-54 | | | 10 |
| | 74099 | GE259MAX-G-347 | 2 or 1 - F96T8 347V "N" 0.87 BF UltraMax® G | 10-55 | 74100 | | 10 |
| ProLine® T8 Instant Start 120V and 277V High Performance | | | | | | | |
| For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps | | | | | | | |
| | 23673 | GE-332-120-N | 3 or 2 - F32T8 120V "N" .87 BF ProLine® | 10-56 | 24165 | | 10 |
| For 46-59W 4 ft - 8 ft Slimline Lamps | | | | | | | |
| | 23677 | GE-259-120-N | 2 or 1 - F96T8 120V Normal Light .87 BF ProLine® | 10-57 | | | 10 |
| Residential Grade ProLine® T8 120V | | | | | | | |
| For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps | | | | | | | |
| | 97782 | GE232-120-RES | 2 or 1 - F32T8 120V "N" .87 BF Residential ProLine® | 10-58 | | 93884 | 10 |
| | 97783 | GE432-120-RES | 4 or 3 - F32T8 120V "N" .87 BF Residential ProLine® | 10-59 | | 93885 | 10 |
| ELECTROMAGNETIC T8 120V AND 277V BALLASTS | | | | | | | |
| For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps | | | | | | | |
| | 87125 | GEM232T8RS120 | 2 - F32T8 RS 120V Magnetic Ballast (M232SR120C) | 10-60 | | 87125 | 10 |
| T8 PROGRAMMED START BALLASTS | | | | | | | |
| UltraStart® T8 120V-277V Programmed Start | | | | | | | |
| For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps | | | | | | | |
| | 75952 | GE132-MVPS-L | 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® | 11-2 | | | 10 |
| | 75953 | GE132-MVPS-N | 1 F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart® | 11-3 | | | 10 |
| | 75954 | GE132-MVPS-H | 1 F32T8 120V-277V High Light 1.18 BF <10% THD UltraStart® | 11-4 | | | 10 |
| | 96714 | GE232-MVPS-N | 2 or 1 - F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart® | 11-5 | | | 10 |
| | 96720 | GE232-MVPS-L | 2 or 1 - F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® | 11-5 | | | 10 |
| | 29675 | GE-232-MVPS-H | 2 - F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart® | 11-6 | 29651 | | 10 |
| | 29671 | GE-232-MVPS-XL | 2 - F32T8 120V-277V Ultra Low Watt .60 BF <10% THD | 11-7 | | | 10 |
| | 29676 | GE-332-MVPS-H | 3 - F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart® | 11-8 | | | 10 |
| | 96715 | GE332-MVPS-N | 3 - F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart® | 11-9 | | | 10 |
| | 96721 | GE332-MVPS-L | 3 - F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® | 11-9 | | | 10 |
| | 29672 | GE-332-MVPS-XL | 3 - F32T8 120V-277V Ultra Low Watt .60 BF <10% THD | 11-10 | | | 10 |
| | 29625 | GE-432-120-PS-N | 4 - F32T8 120V Normal Light .87 BF <10% THD UltraStart® | 11-10 | 29635 | | 10 |
| | 96716 | GE432-MVPS-N | 4 - F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart® | 11-11 | | | 10 |
| | 71832 | GE432-MVPS-L | 4 - F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart® | 11-11 | | | 10 |
| | 74476 | GE-432-MVPS-H | 4 - F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart® | 11-12 | 74477 | | 8 |
| | 62721 | GE232PS347-L | 2 or 1 F32T8 347V Low Watt .71 BF UltraStart® | 11-13 | | | 10 |
| | 62722 | GE432PS347-L | 4 or 3 F32T8 347V Low Watt .71 BF UltraStart® | 11-14 | | | 10 |
| | 62723 | GE232PS347-N | 2 or 1 F32T8 347V Normal Light .88 BF UltraStart® | 11-15 | | | 10 |
| | 62724 | GE332PS347-N | 3 F32T8 347V Normal Light .88 BF UltraStart® | 11-16 | | | 10 |
| | 62725 | GE432PS347-N | 4 F32T8 347V Normal Light .88 BF UltraStart® | 11-17 | | | 10 |
| | 62726 | GE232PS347-H | 2 or 1 F32T8 347V High Light 1.18 BF UltraStart® | 11-18 | | | 10 |
| | 62727 | GE332PS347-H | 3 F32T8 347V High Light 1.18 BF UltraStart® | 11-19 | | | 10 |
| | 63041 | GE332PS347-L | 2 or 1 F32T8 347V High Light 1.18 BF UltraStart® | 11-20 | | | 10 |

| | Std Pack Prod Code | Description | Application | Product Page Number | Pallet Pack | DIY Pack | Std Pack Units Per Carton |
|---|-----------------------|------------------|--|------------------------|----------------|-------------|---------------------------------|
| T8 Fluorescent Ballasts (continued) | | | | | | | |
| T8/T5 DIMMING BALLASTS | | | | | | | |
| UltraStart® T8 Step Dimming Program Start Dimming | | | | | | | |
| | 68966 | GE132-MVPS-N-S30 | 1 F32T8 120-277V "N" .88 BF UltraStart® 100/30% Bi-level Switching | 12-5 | | | 10 |
| | 68968 | GE232-MVPS-L-S30 | 2 or 1 F32T8 120-277V "L" .78 BF UltraStart® 100/30% Bi-level Switching | 12-6 | | | 10 |
| | 68967 | GE232-MVPS-N-S30 | 2 or 1 F32T8 120-277V "N" .88 BF UltraStart® 100/30% Bi-level Switching | 12-7 | | | 10 |
| UltraMax® Bi-Level Dimming & Load Shed Dimming Instant Start High-Efficiency | | | | | | | |
| | 73233 | GE232MAX90-S60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim | 12-8 | | | 10 |
| | 73231 | GE332MAX90-S60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim | 12-9 | | | 10 |
| | 73229 | GE432MAX90-S60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim | 12-10 | | | 10 |
| | 71497 | GE632MAX-H90-S60 | 6, 5, 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 100/60% step dim | 12-11 | | | 10 |
| | 73234 | GE232MAX90-V60 | 2 or 1 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim | 12-12 | | | 10 |
| | 73232 | GE332MAX90-V60 | 3 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim | 12-13 | | | 10 |
| | 73230 | GE432MAX90-V60 | 4 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim | 12-14 | | | 10 |
| | 71731 | GE632MAX-H90-V60 | 6 or 5 - F32T8 120 to 277 "H" 1.18 BF UltraMax® 0-10V 100-60% dim | 12-15 | | | 10 |
| UltraStart® T8 100-3% 0-10V / 120-277V Programmed Start Dimming | | | | | | | |
| | 75379 | GE132MVPS-N-V03 | 1 - F32T8 120-277V "N" .88 BF UltraStart® 0-10V Dimming 100-3% | 12-16 | | | 10 |
| | 75380 | GE232MVPS-N-V03 | 2 - F32T8 120-277V "N" .88 BF UltraStart® 0-10V Dimming 100-3% | 12-17 | | | 10 |
| | 75381 | GE332MVPS-N-V03 | 3 - F32T8 120-277V "N" .88 BF UltraStart® 0-10V Dimming 100-3% | 12-18 | | | 10 |
| | 75382 | GE432-MVPS-N-V03 | 4 - F32T8 120-277V "N" .88 BF UltraStart® 0-10V Dimming 100-3% | 12-19 | | | 10 |
| | 75383 | GE232-MVPS-H-V03 | 2 or 1 - F32T8 120-277V "H" 1.18 BF UltraStart® 0-10V Dimming 100-3% | 12-20 | | | 10 |
| | 75384 | GE332MVPS-H-V03 | 3 - F32T8 120-277V "H" 1.18 BF UltraStart® 0-10V Dimming 100-3% | 12-21 | | | 10 |
| | 75385 | GE432-MVPS-H-V03 | 4 - F32T8 120-277V "H" 1.18 BF UltraStart® 0-10V Dimming 100-3% | 12-22 | | | 10 |
| | 62044 | GE432MVPS-N-V03W | 3 - F32T8 120-277V "N" .88 BF UltraStart® 0-10V Dimming 100-3% | 12-23 | | | 10 |
| UltraStart® T5 120-277V Step Dimming Program Start | | | | | | | |
| | 90903 | GE228MVPS-N-S35 | 2 or 1 F28T5HE Lamps | 12-24 | | | 10 |
| | 90904 | GE224MVPS-N-S35 | 2 or 1 F24T5HO Lamps | 12-25 | | | 10 |

Quick reference ballast selection guide (cont.)

| Std Pack Prod Code | Description | Application | Product Page Number | Pallet Pack | DIY Pack | Std Pack Units Per Carton |
|--------------------|-------------|-------------|---------------------|-------------|----------|---------------------------|
|--------------------|-------------|-------------|---------------------|-------------|----------|---------------------------|

T5 Fluorescent Ballasts

T5 ELECTRONIC PROGRAMMED START BALLASTS

T5 High Efficiency – Rapid Start 120V Residential Ballast

For F13T5, F14T5, F21T5 and F28T5

| | | | | | | |
|-------|------------------|--|------|--|--|--|
| 78518 | GE21T5-120-RES | Electronic ballast for (1) F21T5; or (1) F14T5; or (1) F13T5 | 13-3 | | | |
| 78811 | GE28T5-120-RES | Electronic ballast for (1) F28T5; or (1) F21T5; or (1) F14T5 | 13-3 | | | |
| 80021 | GE28T5/2-120-RES | Electronic ballast for (2) F28T5; or (2) F21T5; or (2) F14T5 | 13-3 | | | |

T5 High Efficiency Programmed Start

For F14 (2 ft), F21 (3 ft), F28 (4 ft), F35 (5 ft) HE T5 Lamps

| | | | | | | |
|-------|----------------|---|------|--|--|----|
| 68994 | GE228MVPS-MC-H | 2 – F21-F28T5HE, 120 to 277 UltraStart® PRS High Light 1.15 BF A Can | 13-4 | | | 10 |
| 68993 | GE228MVPS-MC | 2 or 1 – F14-F28T5HE, 120 – 277 UltraStart® PRS Normal Light - .95 BF A Can | 13-4 | | | 10 |

T5 High Output Programmed Start

For HO T5 Lamps

| | | | | | | |
|-------|------------------|--|-------|--|--|----|
| 68976 | GE224MVPS-N | 2 – F24T5HO PRS UNV 50/60 Hz C Can | 13-5 | | | 10 |
| 47540 | B239PUNV-DOG1C | 2 – F39T5HO PRS UNV 50/60 Hz D Can | 13-5 | | | 10 |
| 67562 | GE254MVPS90-A | 2 or 1 – F54T5HO 120 to 277 UltraStart® PRS High Temp A Can | 13-6 | | | 10 |
| 33957 | GE254MVPS-D-1 | 2 or 1 – F54T5HO 120 to 277V UltraStart® PRS High Temp D Can | 13-7 | | | 10 |
| 94131 | GE454MVPS90-E-S | 4/2 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can | 13-8 | | | 10 |
| 67566 | GE454MVPS90-F | 4-1 – F54T5HO 120 to 277 UltraStart® PS F Can | 13-9 | | | |
| 72280 | GE180MVPS-D | 1 – F80T5HO 120 to 277 UltraStart® PRS D Can | 13-10 | | | 10 |
| 62728 | GE254PS347/480-F | 2 or 1 – F54T5HO 347 to 480V PS High Temp F Can LFL | 13-11 | | | 10 |
| 62729 | GE254PS347-F | 2 or 1 – F54T5HO 347V F Can LFL | 13-12 | | | 10 |
| 62730 | GE454PS347/480-E | 4-1 - F54T5HO 347 to 480V High Temp E Can LFL | 13-13 | | | 8 |
| 62731 | GE454PS347-E | 4-1 - F54T5HO 347V LFL E Can | 13-14 | | | 8 |

T5 lamp lengths are noted to nearest foot and are not exact lengths as noted in feet. See GE Lamp Catalog for exact lamp length.

Step Down Transformers from 480V to Universal Voltage Ballasts

| | | | | | | |
|-------|------------------|--|-------|--|--|----|
| 74119 | GETR480/277-250W | Non-Isolated Autotransformer 480 to 277V, <250 Watts (VA), A can | 13-15 | | | 10 |
| 74120 | GETR480/277-375W | Non-Isolated Autotransformer 480 to 277V, <375 Watts (VA), F can | 13-15 | | | 10 |
| 85857 | GETR277/120-175W | Non-Isolated Autotransformer 277 to 120V, <175 Watts (VA), A Can | 13-16 | | | 6 |
| 90896 | GETR347/277-375W | Non-Isolated Autotransformer 347 to 277V, <375 Watts (VA), F Can | 13-16 | | | 6 |

T12 Fluorescent Ballasts

T12 ELECTRONIC BALLASTS

ProLine® T12

For F20 (2 ft), F30 (3 ft), and F34/F40 (4 ft) T12 Lamps

| | | | | | | |
|-------|--------------|---|------|--|-------|-----------|
| 74472 | GE240PS-MV-N | 2 or 1 – F40 or F34T12 Rapid Start 120 to 277 "N" BF ProLine® T12 | 14-3 | | 74473 | Std. Pack |
|-------|--------------|---|------|--|-------|-----------|

For T12 4 ft – 8 ft Slimline Lamps

| | | | | | | |
|-------|---------------|--|------|--|-------|----|
| 74474 | GE-260IS-MV-N | 2 or 1 – F96T12 Instant Start 120 to 277 | 14-4 | | 74475 | 10 |
|-------|---------------|--|------|--|-------|----|

T12 HIGH OUTPUT

| | | | | | | |
|-------|----------------|---|------|--|-------|-----------|
| 35727 | GE296HO-MVPS-N | 2 or 1 – F96T12 HO RS 120 to 277 Multivolt ProLine® | 14-5 | | 72109 | Std. Pack |
|-------|----------------|---|------|--|-------|-----------|

| | Std Pack Prod Code | Description | Application | Product Page Number | Pallet Pack | DIY Pack | Std Pack Units Per Carton |
|--|-----------------------|------------------|--|------------------------|----------------|-------------|---------------------------------|
| Magnetic Ballasts | | | | | | | |
| For Preheat T12 and T8 Lamps, Circleline T9, Straight T12 and T8 Lamps and 2 Pin CFL Lamps | | | | | | | |
| | 68186 | GEM120PH120DIY | 1 - F20T12, F15T8, F1512, F14T8, F18T8, 120V Magnetic Ballast (200H2) | 15-2 | | 68186 | |
| | 68187 | GEM120TC120DIY | 1 - F20T12, F15T8, F15T12, F14T12, 120V, Magnetic Ballast (546BTC) | 15-2 | | 68187 | |
| | 68190 | GEM1FC16T9RS120 | 2 - FC12T9, FC16T9, FC8T9, FC12T9, 120V, Magnetic (726VLHWSTCP) | 15-3 | | 68190 | |
| | 68193 | GEM1FC8T9RS120IP | 1 - FC8T9, FC6T9, RS, 120V, Magnetic Ballast (547RSWSTCP) | 15-4 | | 68193 | IP Pack |
| | 68191 | GEM1FC8T9RS120DI | 1 - FC8T9, RS, 120V Magnetic Ballast (547RSWSTCP) | 15-4 | | 68191 | IP Pack |
| | 68192 | GEM220TS120DIY | 2- F20T12, F15T8, F15T12, F14T12, 120V, Magnetic Ballast (447LRVLHTCP) | 15-5 | | 68192 | |
| | 68188 | GEM1CF13PH120 | 120V Magnetic Ballast For one 2 Pin 13W CFL Lamp | 15-5 | | 68188 | IP Pack |
| FLUORESCENT ACCESSORIES | | | | | | | |
| Starters | | | | | | | |
| | 64818 | FS-2-C/TP | Starters for 14, 15 & 20 Watt Flu. Lamps | 15-6 | | | 6 |
| | 64819 | FS-4-C/TP | Starters for 30 & 40 Watt Flu. Lamps | 15-6 | | | 6 |
| | 64820 | FS-25-C/TP | Starters for 22 & 25 Watt Flu. Lamps | 15-6 | | | 6 |
| | 64821 | FS-5-C/TP | Starters for 4, 6 & 8 Watt Flu. Lamps | 15-6 | | | 6 |
| Sockets | | | | | | | |
| | 64822 | BP-LP/TP | Low Profile Socket Set for Bi-Pin Flu. Lamps | 15-6 | | | 7 |
| | 64823 | BP/TP | Socket Set for Bi-Pin Flu. Lamps | 15-6 | | | 7 |
| | 64824 | BP-FM/TP | Face Mount Socket Set for Bi-Pin Flu. Lamps | 15-6 | | | 7 |
| | 64825 | SL-SS/TP | Socket Set for Slimline Flu. Lamps | 15-6 | | | 3 |
| Sign Ballasts | | | | | | | |
| For T12 High Output Lamps | | | | | | | |
| | 72103 | GESB-0412-12-IP | T12HO Sign ballast, 4 to 12 ft, 1 to 2 lamps | 16-3 | | | 10 |
| | 72104 | GESB-0620-24-IP | T12HO Sign ballast 6 to 20 ft, 2 to 4 lamps | 16-3 | | | 10 |
| | 72105 | GESB-1224-24-IP | T12HO Sign ballast 12 to 24 ft, 2 to 4 lamps | 16-4 | | | 10 |
| | 72106 | GESB-1240-46-IP | T12HO Sign Ballast 12 to 40 ft, 4 to 6 lamps | 16-4 | | | 10 |
| | 72107 | GESB-2040-24-IP | T12HO Sign Ballast 20 to 40 ft, 2 to 4 lamps | 16-5 | | | 10 |
| | 72108 | GESB-2448-46-IP | T12HO Sign Ballast 6 to 12 ft, 4 to 6 lamps | 16-5 | | | 10 |
| | 88921 | USB-0412-12-IP | 4 to 12 ft, 1 to 2 lamps | 16-6 | | | 10 |

Quick reference ballast selection guide (cont.)

| Prod Code | Description | Application | Product Page Number | | | | Units Per Carton |
|--|-----------------|--|---------------------|--|--|--|------------------|
| Compact Fluorescent Ballasts | | | | | | | |
| ProLine® CFL Electronic Ballasts | | | | | | | |
| For 13 – 70W T4 CFL Lamps | | | | | | | |
| 63091 | GEC213-MVPS-BES | 2 or 1 – CFQ13W/G24q 120-227V ProLine® PS | 17-6 | | | | 10 |
| 63092 | GEC213-MVPS-SE | 2 or 1 – CFQ13W/G24q 120-227V ProLine® PS | 17-6 | | | | 10 |
| 63089 | GEC213-MVPS-3W | 2 or 1 – CFQ13W/G24q 120-227V ProLine® PS | 17-6 | | | | 10 |
| 63094 | GEC218-MVPS-BES | 2 or 1 – CFQ18W/G24q 120-227V ProLine® PS | 17-7 | | | | 10 |
| 63096 | GEC218-MVPS-SE | 2 or 1 – CFQ18W/G24q 120-227V ProLine® PS | 17-7 | | | | 10 |
| 63093 | GEC218-MVPS-3W | 2 or 1 – CFQ18W/G24q 120-227V ProLine® PS | 17-7 | | | | 10 |
| 63098 | GEC226-MVPS-BES | 2 – CFQ26W, FT24 or 1 – 24W CFTR32 120-227V ProLine® PS | 17-8 | | | | 10 |
| 63099 | GEC226-MVPS-SE | 2 – CFQ26W, FT24 or 1 – 24W CFTR32 120-227V ProLine® PS | 17-8 | | | | 10 |
| 63097 | GEC226-MVPS-3W | 2 – CFQ26W, FT24 or 1 – 24W CFTR32 120-227V ProLine® PS | 17-8 | | | | 10 |
| 63101 | GEC242-MVPS-BES | 2 – 42/36/32/28/26/24 watt 120-277V Proline® PS | 17-9 | | | | 10 |
| 63102 | GEC242-MVPS-SE | 2 – 42/36/32/28/26/24 watt 120-277V Proline® PS | 17-9 | | | | 10 |
| 63100 | GEC242-MVPS-3W | 2 – 42/36/32/28/26/24 watt 120-277V Proline® PS | 17-9 | | | | 10 |
| High-Lumen UltraMax® and UltraStart® Ballasts for 40W, 28W, and 25W Biax® | | | | | | | |
| 75948 | GEC140MAX-A | 1 – FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start | 17-10 | | | | 10 |
| 71435 | GEC240MAX-A | 2 or 1 – FT40W-25W/2G11 Biax®- 120-277V UltraMax® Instant Start | 17-11 | | | | 10 |
| 71436 | GEC340MAX-A | 3 – FT40W-25W/2G11 Biax® - 120-277V UltraMax® Instant Start | 17-12 | | | | 10 |
| 71437 | GEC240MVPS-A | 2 or 1 – FT40W/2G11 Biax®- 120-277V UltraStart® Programmed Start | 17-13 | | | | 10 |
| 75950 | GEC225MVPS-A | 2 or 1 – FT25W/2G11 Biax®- 120-277V UltraStart® Programmed Start | 17-13 | | | | 10 |
| CFL Magnetic Ballasts | | | | | | | |
| For 5 – 26W Preheat CFL Lamps | | | | | | | |
| 87533 | GEM1CF13PH120 | 1 – CFT/Q13W/GX23 Preheat 120 (4111H2P) | 17-14 | | | | 10 |

| Prod Code | Description | Application | Product Page Number | ANSI Lamp Type | Circuit Type | Units Per Carton |
|-------------------------------------|-----------------|--|---------------------|-----------------------------|--------------|------------------|
| HID Electronic Ballasts | | | | | | |
| For 20 – 150W Pulse Start HID Lamps | | | | | | |
| 74115 | GEMH20-MC-120 | 1 – 20W M156 or C156 120V Micro Electronic HID | 18-5 | M156 | Electronic | 10 |
| 87490 | GEMH20-MLF-120 | 1 – 20W M156 or C156 120V Electronic HID | 18-5 | M156 | Electronic | 12 |
| 63042 | GEMH20-MSJ-MV | 1-20W M156/C156 120-277V Low frequency Electronic HID | 18-6 | C156 | Electronic | 10 |
| 63043 | GEMH20-MSF-MV | 1-20W M156/C156 120-277V Low frequency Electronic HID | 18-6 | C156 | Electronic | 10 |
| 63044 | GEMH39-MSJ-MV | 1-39W M130/C130 120-277V Low Frequency Electronic HID | 18-7 | C130, M130 | Electronic | 10 |
| 63045 | GEMH39-MSF-MV | 1-39W M130/C130 120-277V Low Frequency Electronic HID | 18-7 | C130, M130 | Electronic | 10 |
| 74116 | GEMH39-MC-120 | 1 – 39W M130 or C130 120V Micro Electronic HID | 18-8 | M130 | Electronic | 10 |
| 75378 | GEMH39-MCM-120 | 1 – 39W M130 or C130 120V Micro Electronic HID Metal Can | 18-8 | M130 | Electronic | 10 |
| 87501 | GEMH39-MSF-120 | 1 – 39W M130 or C130 120V Electronic HID | 18-9 | M130 | Electronic | 10 |
| 87531 | GEMH70-MSF-120 | 1 – 70W, M98, M/C143, 120V Electronic HID | 18-9 | M98, M143, M139, C143, C139 | Electronic | 10 |
| 94135 | GEMH70-MSLF-120 | 1 – 70W, M98/C98, M139/C139, 120V Electronic HID | 18-10 | M98/C98, M139/C139 | Electronic | 10 |
| 87546 | GEMH70-SLJ-MV | 1 – 70W, M98, M/C143, 120V Electronic HID | 18-10 | M98, M143, M139, C143, C139 | Electronic | 10 |
| 87561 | GEMH100-SLJ-MV | 1 – 100W, M90, M/C140, 120V-277V Electronic HID | 18-11 | M90, M140 | Electronic | 10 |
| 87576 | GEMH150-SLJ-MV | 1 – 150W, M102, M/C142, 120V-277V Electronic HID | 18-11 | M102, M142 | Electronic | 10 |

HID Electromagnetic Ballasts**Metal Halide**

For 20 – 175W Metal Halide HID Lamps

| | | | | | | |
|-------|-------------------|--|-------|----------------|--------|---|
| 86824 | GEM50MLTLC3D-5 | 1 – 50W MH M110 or M148 Quad (120/208/240/277V) | 18-12 | M110, M148 | HX-HPF | 6 |
| 86847 | GEM70MLTLC3D-5 | 1 – 70W MH M98 or M143 Quad (120/208/240/277V) | 18-12 | M98, M143 | HX-HPF | 6 |
| 78517 | GEM70TRILC3-5 | 1 – 70W MH M143 Tri Tap (120/277/347V) | 18-13 | M143 | HX-HPF | 6 |
| 67337 | GEM7048TLA3D-5/2 | 1 – 70W MH M98 or M143 480 | 18-13 | M98 | HX-HPF | |
| 86675 | GEM100MLTLC3D-5 | 1 – 100W MH M90 or M140 Quad (120/208/240/277V) | 18-14 | M92, M90, M140 | HX-HPF | 6 |
| 78519 | GEM100TRILC3-5 | 1 – 100W M140 Tri Tap (120/277/347V) | 18-14 | M140 | HX-HPF | 6 |
| 67333 | GEM10048TLA3D-5/2 | 1 – 100W MH M90 or M140 480 | 18-15 | M90, M140 | HX-HPF | 6 |
| 86718 | GEM150MLTLC3D-5 | 1 – 150W MH M102 or M142 Quad (120/208/240/277V) | 18-15 | M142, M102 | HX-HPF | 6 |
| 78520 | GEM150TRILC3-5 | 1 – 150W M102 Tri Tap (120/277/347V) | 18-16 | M102 | HX-HPF | 6 |
| 86711 | GEM15048TLA3D-5 | 1 – 150W MH M102 or M142 480 | 18-16 | M102, M142 | HX-HPF | 6 |
| 87210 | GEM175ML5AC3-5 | 1 – 175W MH M57 5-Tap (120/208/240/277/480V) | 18-17 | M57, M109 | CWA | 6 |
| 86741 | GEM175MLTAC3-5 | 1 – 175W MH M57 Quad (120/208/240/277V) | 18-17 | M57, M107 | CWA | 6 |
| 78521 | GEM175TRIAC3-5 | 1 – 175W MH M57 Tri Tap (120/277/347V) | 18-18 | M57 | CWA | 6 |

Quick reference ballast selection guide (cont.)

| Prod Code | Description | Application | Product Page Number | ANSI Lamp Type | Circuit Type | Units Per Carton |
|--|--------------------|--|---------------------|----------------|-----------------|------------------|
| HID Electromagnetic Ballasts (continued) | | | | | | |
| Metal Halide (continued) | | | | | | |
| For 250 – 1500W Metal Halide HID Lamps | | | | | | |
| 87211 | GEM250ML5AC3-5 | 1 – 250W MH M58 5-Tap (120/208/240/277/480V) | 18-19 | M58 | CWA | 6 |
| 86765 | GEM250MLTAC3-5 | 1 – 250W MH M58 Quad (120/208/240/277V) | 18-19 | M58 | CWA | 6 |
| 78522 | GEM250TRIAC4-5 | 1 – 250W M58 Tri Tap (120/277/347V) | 18-20 | M58 | CWA | 6 |
| 87212 | GEM250ML5AC4-5 | 1 – 250W MH M58 or 5-Tap (120/208/240/277/480V) | 18-20 | M58 | CWA | 3 |
| 78523 | GEM400TRIAC4-5 | 1 – 400W M59 Tri Tap (120/277/347V) | 18-21 | M59 | CWA | 3 |
| 72300 | GEM400ML5AA4-5/2 | 1 – 400W M59 5-Tap (120/208/240/277/480V) AI C&C | 18-21 | M59 | CWA | 3 |
| 72149 | GEM400MLTAA4-5 | 1 – 400W MH M59 Quad (120/208/240/277V) AI C&C | 18-22 | M59 | CWA | 3 |
| 63070 | GEM40048TAA4 – 5/2 | 1 – 400W MH M59 480 | 18-22 | M59 | CWA | 3 |
| 63069 | GEM100048TAC5-5/2 | 1 – 1000W MH M47 480 | 18-23 | M47 | CWA | 2 |
| 87213 | GEM1000ML5AA5-5/2 | 1 – 1000W MH M47 5-Tap (120/208/240/277/480V) | 18-23 | M47 | CWA | 2 |
| 86655 | GEM1000MLTAA5-5/2 | 1 – 1000W MH M47 Quad (120/208/240/277V) | 18-24 | M47 | CWA | 2 |
| 78524 | GEM1000TRIAC5-5 | 1 – 1000W MH M47 Tri Tap (120/277/347V) | 18-24 | M47 | CWA | 2 |
| 86693 | GEM150048TAC5M5-5 | 1 – 1500W MH M48 480 | 18-25 | M48 | CWA | 2 |
| 86698 | GEM1500MLTAC5-5 | 1 – 1500W MH M48 Quad (120/208/240/277V) | 18-25 | M48 | CWA | 2 |
| Pulse Start | | | | | | |
| For 175 – 1000W Pulse Start Metal Halide HID Lamps | | | | | | |
| 67335 | GEP175MLTACA3-5/2 | 1 – 175W PS M137 or M152 Quad (120/208/240/277V) | 18-26 | M152, M137 | Pulse Start CWA | 6 |
| 78525 | GEP175TRIAC3-5 | 1 – 175W PS M137 Tri Tap (120/277/347V) | 18-26 | M137 | Pulse Start CWA | 6 |
| 67334 | GEP17548TAA3-5/2 | 1 – 175W PS M137 or M152 480 | 18-27 | M152, M137 | Pulse Start CWA | 6 |
| 78526 | GEP200TRIAC3-5 | 1 – 200W PS M136 Tri Tap (120/277/347V) | 18-27 | M136 | Pulse Start CWA | 6 |
| 67344 | GEP250MLTAA4-5/2 | 1 – 250W PS M138 or M153 Quad (120/208/240/277V) | 18-28 | M153, M138 | Pulse Start CWA | 3 |
| 78527 | GEP250TRIAC4-5 | 1 – 250W PS M138 Tri Tap (120/277/347V) | 18-28 | M138 | Pulse Start CWA | 3 |
| 67336 | GEP25048TAA4-5/2 | 1 – 250W PS M138 or M153 480 | 18-29 | M153, M138 | Pulse Start CWA | 3 |
| 67345 | GEP320MLTAA4-5/2 | 1 – 320W PS M132 or 154 Quad (120/208/240/277V) | 18-29 | M154, M132 | Pulse Start CWA | 3 |
| 78528 | GEP320TRIAC4-5 | 1 – 320W PS M132 Tri Tap (120/277/347V) | 18-30 | M132 | Pulse Start CWA | 6 |
| 67342 | GEP32048TAC4-5/2 | 1 – 320W PS M132 or M154 480 | 18-30 | M154, M132 | Pulse Start CWA | 3 |
| 67346 | GEP350MLTAA4-5/2 | 1 – 350W PS M131 Quad (120/208/240/277V) | 18-31 | M131 | Pulse Start CWA | 3 |
| 78529 | GEP350TRIAC4-5 | 1 – 350W PS M131 Tri Tap (120/277/347V) | 18-31 | M131 | Pulse Start CWA | 3 |
| 67341 | GEP40048TAA4-5/2 | 1 – 400W PS M135 or M155 480 | 18-32 | M155, M135 | Pulse Start CWA | 3 |
| 67347 | GEM400MLTAA4-5/2 | 1 – 400W PS M59 Quad (120/208/240/277V) | 18-32 | M59 | Pulse Start CWA | 3 |
| 78530 | GEP400TRIAC4-5 | 1 – 400W PS M135 Tri Tap (120/277/347V) | 18-33 | M135 | Pulse Start CWA | 3 |
| 67343 | GEP75048TAA5-5/2 | 1 – 750W PS M149 480 | 18-33 | M149 | Pulse Start CWA | 2 |
| 67350 | GEP750MLTAA5-5/2 | 1 – 750W PS M149 Quad (120/208/240/277V) | 18-34 | M149 | Pulse Start CWA | 2 |
| 78531 | GEP750TRIAC5-5 | 1 – 750W PS M149 Tri Tap (120/277/347V) | 18-34 | M149 | Pulse Start CWA | 2 |
| 67348 | GEP1000MLTAA5-5/2 | 1 – 1000W PS M141 Quad (120/208/240/277V) | 18-35 | M141 | Pulse Start CWA | 2 |
| 78532 | GEP1000TRIAC5-5 | 1 – 1000W PS M141 Tri Tap (120/277/347V) | 18-35 | M141 | Pulse Start CWA | 2 |
| 67349 | GEP1000ML5AA5-5/2 | 1 – 1000W PS M141 5-Tap (120/208/240/277/480V) | 18-36 | M141 | Pulse Start CWA | 2 |

| Prod Code | Description | Application | Product Page Number | ANSI Lamp Type | Circuit Type | Units Per Carton |
|---|-------------------|--|---------------------|----------------|--------------|------------------|
| HID Electromagnetic Ballasts (continued) | | | | | | |
| High Pressure Sodium | | | | | | |
| For 50 – 150W High Pressure Sodium HID Lamps | | | | | | |
| 87152 | GES50MLTLC3D-5 | 1 – 50W HPS S68 Quad (120/208/240/277V) | 18-37 | S68 | HX-HPF | 6 |
| 78533 | GES50TRILC3-5 | 1 – 50W HPS S68 Tri Tap (120/277/347V) | 18-37 | S68 | HX-HPF | 2 |
| 86587 | GES70MLTLA3D-5 | 1 – 70W HPS S62 Quad (120/208/240/277V) | 18-38 | S62 | HX-HPF | 6 |
| 78534 | GES70TRILC3-5 | 1 – 70W HPS S62 Tri Tap (120/277/347V) | 18-38 | S62 | HX-HPF | 2 |
| 67340 | GES7048TLA3D-5/2 | 1 – 70W HPS S62 480V | 18-39 | S62 | HX-HPF | 6 |
| 87074 | GES100MLTLC3D-5 | 1 – 100W HPS S54 Quad (120/208/240/277V) | 18-39 | S54 | HX-HPF | 6 |
| 78535 | GES100TRILC3-5 | 1 – 100W HPS S54 Tri Tap (120/277/347V) | 18-40 | S54 | HX-HPF | 6 |
| 67338 | GES10048TLA3D-5/2 | 1 – 100W HPS S54 480V | 18-40 | S54 | HX-HPF | 6 |
| 87094 | GES150MLTLC3D-5 | 1 – 150W HPS S55 Quad (120/208/240/277V) | 18-41 | S55 | HX-HPF | 6 |
| 78536 | GES150TRILC3-5 | 1 – 150W HPS S55 Tri Tap (120/277/347V) | 18-41 | S55 | HX-HPF | 6 |
| 67339 | GES15048TLA3D-5/2 | 1 – 150W HPS S55 480V | 18-42 | S55 | HX-HPF | 6 |
| For 250 – 1000W High Pressure Sodium HID Lamps | | | | | | |
| 87214 | GES250ML5AA4-5 | 1 – 250W HPS S50 5-Tap (120/208/240/277/480V) | 18-43 | S50 | CWA | 3 |
| 87121 | GES250MLTAC4-5 | 1 – 250W HPS S50 Quad (120/208/240/277V) | 18-43 | S50 | CWA | 3 |
| 78537 | GES250TRIAC4-5 | 1 – 250W HPS S50 Tri Tap (120/277/347V) | 18-44 | S50 | CWA | 3 |
| 63066 | GES400ML5AA4-5 | 1 – 400W HPS S51 5-Tap (120/208/240/277/480V) | 18-44 | S51 | CWA | 3 |
| 87164 | GES400MLTAC4-5 | 1 – 400W HPS S51 Quad (120/208/240/277V) | 18-45 | S51 | CWA | 3 |
| 78539 | GES400TRIAC4-5 | 1 – 400W HPS S51 Tri Tap (120/277/347V) | 18-45 | S51 | CWA | 3 |
| 87198 | GES40048TAC4-5 | 1 – 400W HPS S51 480V in smaller frame | 18-46 | S51 | CWA | 3 |
| 67351 | GES100048TAA5-5/2 | 1 – 1000W HPS S52 480V | 18-46 | S52 | CWA | 2 |
| 87218 | GES1000ML5AA5-5 | 1 – 1000W HPS S52 5-Tap (120/208/240/277/480V) | 18-47 | S52 | CWA | 2 |
| 67352 | GES1000MLTAA5-5/2 | 1 – 1000W HPS S52 Quad (120/208/240/277V) | 18-47 | S52 | CWA | 2 |
| 78540 | GES1000TRIAC5-5 | 1 – 1000W HPS S52 Tri Tap (120/277/347V) | 18-48 | S52 | CWA | 2 |
| High Intensity Discharge Lamp and Ballast Kits | | | | | | |
| 71701 | GEM175ML5AC3-55 | 1 – 175W MH M57 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55) | 18-49 | M57, M109 | CWA | 6 |
| 71702 | GEM250ML5AC3-55 | 1 – 250W MH M58 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55) | 18-49 | M58 | CWA | 6 |
| 71703 | GEM400ML5AC4-55 | 1 – 400W MH M59 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55) | 18-50 | M59 | CWA | 3 |
| 71704 | GEM1000ML5AC4-55 | 1 – 1000W MH M47 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55) | 18-50 | M47 | CWA | 2 |
| 71705 | GES100MLTLC3D-55 | 1 – 100W HPS S54 Quad (120/208/240/277V) Lamp & Ballast Kit (-55) | 18-51 | S54 | HX-HPF | 6 |
| 71706 | GES250ML5AC4-55 | 1 – 250W HPS S50 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55) | 18-51 | S50 | CWA | 3 |
| 71707 | GES400ML5AC4-55 | 1 – 400W HPS S51 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55) | 18-52 | S51 | CWA | 3 |

Quick reference ballast selection guide (cont.)

| | Prod Code | Description | Application | Product Page Number | ANSI Lamp Type | Circuit Type | Units Per Carton |
|--|-----------|----------------------|---|---------------------|----------------|--------------|------------------|
| HID Electromagnetic Ballasts (continued) | | | | | | | |
| HID Metal Halide F-Can | | | | | | | |
| | 86576 | 11210277CTC000C | 1 – 70W M85 120/277 Enclosed & Potted F-Can | 18-53 | M85 | HX-HPF | 4 |
| | 63047 | GEM70MVR-F | 1 – 70W M98 120/277 Enclosed & Potted F-Can | 18-53 | M98 | HX-HPF | 4 |
| | 63048 | GEMH100MVR-F | 1 – 100W M90 120/277 Enclosed & Potted F-Can | 18-54 | M90 | HX-HPF | 4 |
| | 63049 | GEMH150MVR-F | 1 – 150W MH 120/277 Enclosed & Potted F-Can | 18-54 | M102 | HX-HPF | 2 |
| | 63050 | GEMH175MVA-F | 1 – 175W M57 120/277 Enclosed & Potted F-Can | 18-55 | M57, H39 | CWA | 2 |
| | 63051 | GEMH250MVA-F | 1 – 250W M58 120/277 Enclosed & Potted F-Can | 18-55 | M58, H37 | CWA | 2 |
| | 63052 | GEMH400MVA-F | 1 – 400W M59 120/277 Enclosed & Potted F-Can | 18-56 | M59, H39 | CWA | 2 |
| | 80728 | 1111-247SCTC000I | 1 – 400W M59 120/277 Enclosed & Potted F-Can | 18-56 | M59, H33 | CWA | 4 |
| HID - High Pressure Sodium F-Can | | | | | | | |
| | 86596 | 12210237CTC000I | 1 – 70W S62 120/277 E & P F-Can built-in starter | 18-57 | S62 | HX-HPF | 4 |
| HID - High Pressure Sodium Reactor | | | | | | | |
| | 86605 | 1233142U000I | 1 – 70W S62 120 Reactor-NPF | 18-58 | S62 | R-HPF, R-NPF | 6 |
| | 86606 | 1233154U000I | 1 – 150W S55 120 Reactor-NPF | 18-58 | S55 | R-NPF | 6 |
| HID ACCESSORIES | | | | | | | |
| Replacement Ignitors for Pulse Start Lamps – (MH and HPS) | | | | | | | |
| | 75440 | MH100-3A MH350-1A | Ignitor for MH 30 50 70 100 Ignitor MH 150W, PS 175 250 320 350 400W | 18-59 | | | 20 |
| | 75441 | MH750-1B | Ignitor MH PS 750W | 18-59 | | | |
| | 86635 | HPS150-3A | Ignitor HPS 150 watts or less except 150W-S56 | 18-59 | | | 20 |
| | 86641 | HPS400-3A | Ignitor HPS 200-400 watts & 150W S56 | 18-59 | | | 10 |
| | 75439 | HPS1000-4B | Ignitor HPS 1000W, PS 1000W | 18-59 | | | |
| Other Accessories | | | | | | | |
| | 47621 | 000-8724 | HIDP Adjustable Mounting Bracket Hardware Kit | 18-59 | | | 100 |
| REPLACEMENT CAPACITORS | | | | | | | |
| | 75433 | 005-1184-MF | 10.0 MFD 400V 90C 2.4 MEG 1.50 oval 2.7 ht | 18-59 | | | 20 |
| | 75668 | 005-2779-MF | 24.0 MFD 480V 90C 1.75 oval 3.9 ht | 18-59 | | | 20 |
| | 75429 | GECAP-5/300V-D | Capacitor 5MFD 280V Dry | 18-59 | | | 20 |
| | 75425 | GECAP-6/280V-D | Capacitor 6MFD 280V Dry | 18-59 | | | 20 |
| | 75430 | GECAP-7/300V-D | Capacitor 7MFD 300V Dry | 18-59 | | | 20 |
| | 75426 | GECAP-8/280V-D | Capacitor 8MFD 280V Dry | 18-59 | | | 20 |
| | 75433 | GECAP-10/400V-O | Capacitor 10MFD 400V Oil | 18-59 | | | 20 |
| | 75427 | GECAP-12/280V-D | Capacitor 12MFD 280V Dry | 18-59 | | | 20 |
| | 75669 | GECAP-14/280V-D | Capacitor 14MFD 280V Dry | 18-59 | | | 20 |
| | 75434 | GECAP-15/400V-O | Capacitor 15MFD 400V Oil | 18-59 | | | 20 |
| | 75428 | GECAP-16/280V-D | Capacitor 16MFD 280V Dry | 18-59 | | | 20 |
| | 75431 | GECAP-21/345V-O | Capacitor 21MFD 345V Oil | 18-59 | | | 20 |
| | 75432 | GECAP-22.5/345V-O | Capacitor 22.5MFD 345V Oil | 18-59 | | | 20 |
| | 75435 | GECAP-24/400V-O | Capacitor 24MFD 400V Oil | 18-59 | | | 20 |
| | 75668 | GECAP-24/480V-O | Capacitor 24MFD 480V Oil | 18-59 | | | 20 |
| | 75437 | GECAP-26/525V-O | Capacitor 26MFD 525V Oil | 18-59 | | | 20 |
| | 75436 | GECAP-28/400V-O | Capacitor 28MFD 400V Oil | 18-59 | | | 20 |
| | 75438 | GECAP-32/525V-O | Capacitor 32MFD 525V Oil | 18-59 | | | 20 |
| | 75422 | GECAP-35/240V-D | Capacitor 35MFD 240V Dry | 18-59 | | | 20 |
| | 75423 | GECAP-55/240V-D | Capacitor 55MFD 240V Dry | 18-59 | | | 20 |

Incandescent Lamps

| | | | |
|--|------|--|------|
| Bulb Identification | 1-2 | Export-Only | |
| Filament Identification | 1-2 | 40 Watts..... | 1-15 |
| Base Identification | 1-2 | 60 Watts..... | 1-16 |
| Lamp Locator | 1-3 | 75 Watts..... | 1-16 |
| Introduction | 1-4 | 85 Watts..... | 1-16 |
| Incandescent Brand Name Cross-Reference | 1-4 | 100 Watts..... | 1-16 |
| GE Reveal® Light Bulbs | 1-5 | 120 Watts..... | 1-16 |
| GE Rough Service A-Line Bulbs | 1-5 | 150 Watts..... | 1-16 |
| GE Long Life Floodlight or Spotlight | 1-5 | Airport | |
| Section Headings | 1-6 | 30 Watts..... | 1-16 |
| Incandescent Lamps | | 40 Watts..... | 1-16 |
| 3-10 Watts | 1-7 | 200 Watts..... | 1-16 |
| 15 Watts..... | 1-8 | 620 Watts..... | 1-16 |
| 15/135/150 Watts..... | 1-8 | Landscape Lighting | |
| 18 Watts..... | 1-8 | 4 Watts | 1-16 |
| 20 Watts..... | 1-8 | 7 Watts | 1-16 |
| 25 Watts..... | 1-8 | 11 Watts..... | 1-16 |
| 27 Watts..... | 1-9 | Decorative | |
| 30 Watts..... | 1-9 | 3 Watts | 1-16 |
| 30/70/100 Watts..... | 1-9 | 15 Watts..... | 1-17 |
| 40 Watts..... | 1-9 | 25 Watts..... | 1-17 |
| 45 Watts..... | 1-10 | 40 Watts..... | 1-18 |
| 50 Watts..... | 1-10 | 60 Watts..... | 1-19 |
| 50/100/150 Watts..... | 1-11 | 75 Watts..... | 1-19 |
| 50/200/250 Watts..... | 1-11 | 100 Watts..... | 1-19 |
| 60 Watts..... | 1-11 | 150 Watts..... | 1-19 |
| 65 Watts..... | 1-11 | Portable Lighting Products | 1-19 |
| 70 Watts..... | 1-12 | Contractor Packs | 1-19 |
| 75 Watts..... | 1-12 | Warning and Caution Notices | 1-20 |
| 85 Watts..... | 1-12 | Cross-Reference | 1-21 |
| 90 Watts..... | 1-12 | | |
| 100 Watts..... | 1-12 | | |
| 100/200/300 Watts | 1-13 | | |
| 110 Watts..... | 1-13 | | |
| 120 Watts..... | 1-13 | | |
| 125-175 Watts..... | 1-13 | | |
| 175 Watts..... | 1-13 | | |
| 200 Watts..... | 1-14 | | |
| 240 Watts..... | 1-14 | | |
| 250 Watts..... | 1-14 | | |
| 300 Watts..... | 1-14 | | |
| 350-500 Watts..... | 1-15 | | |
| 1000 Watts | 1-15 | | |

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

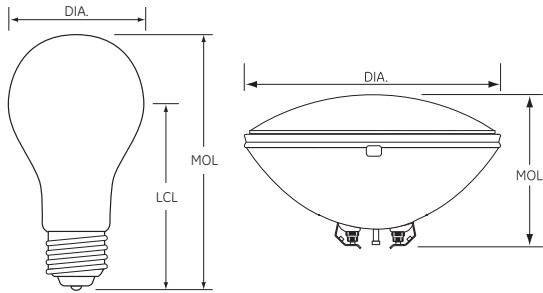
Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

Incandescent Lamps

Bulb Identification



DIA: Diameter of bulb at widest point.

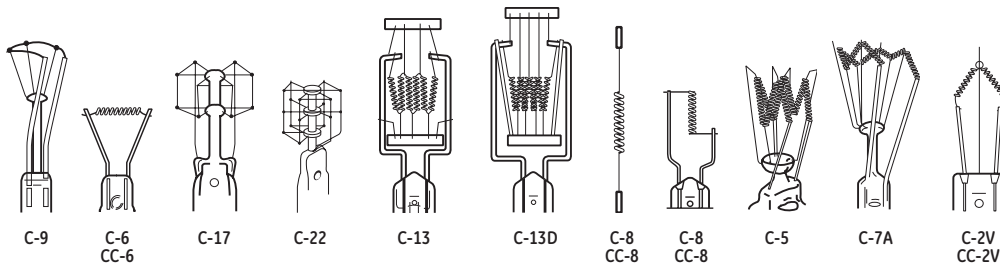
MOL: Maximum Overall Length including base or pins.

LCL: Distance between the center of the arc tube and the Light Center Length reference plane.

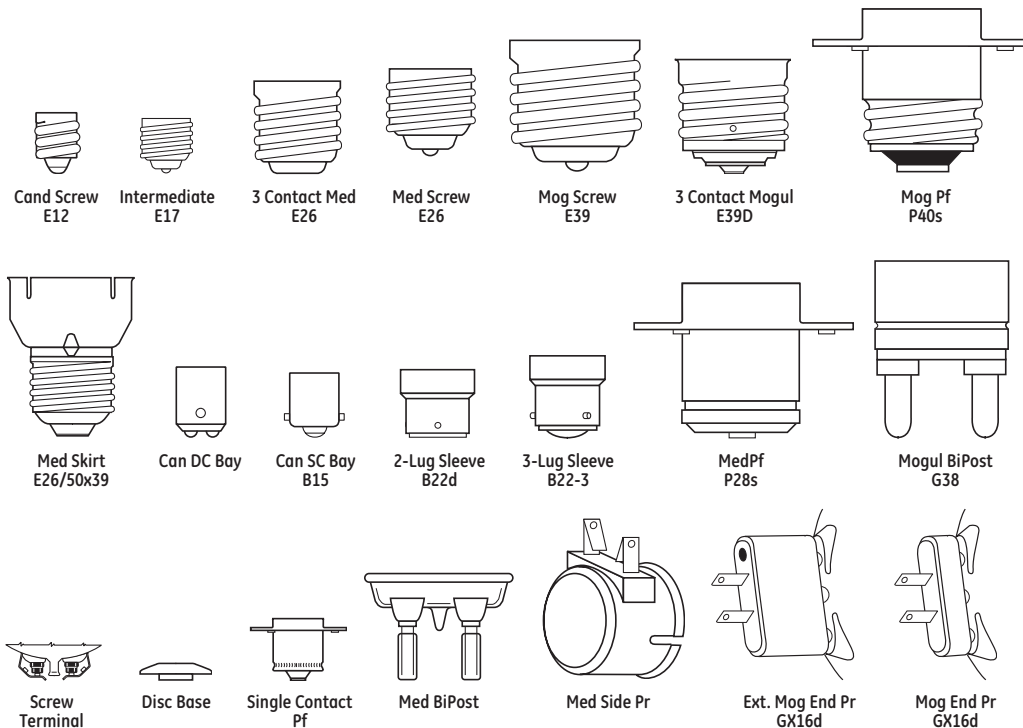
Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

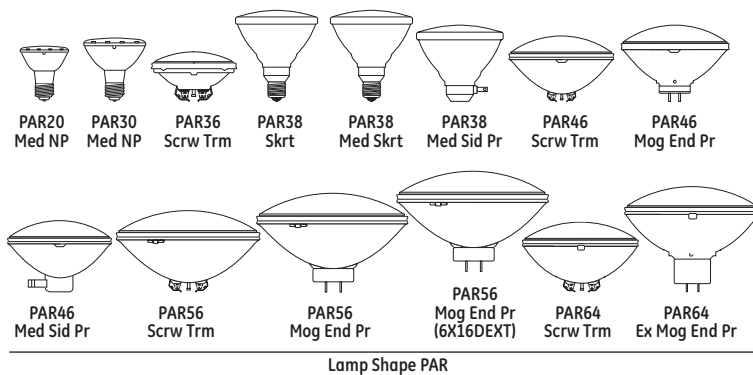
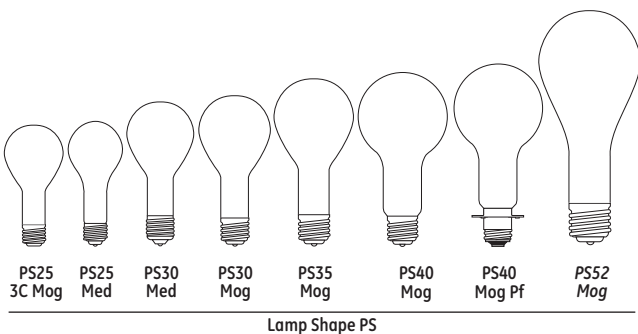
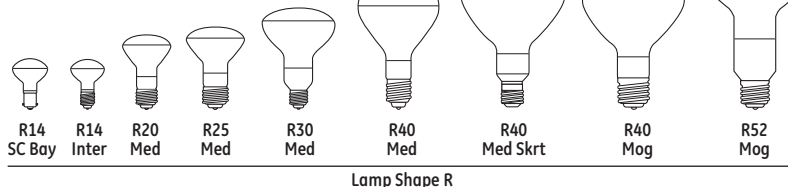
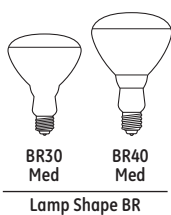
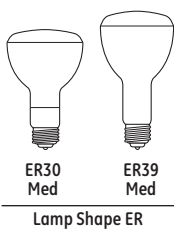
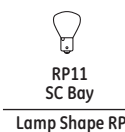
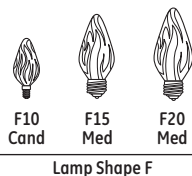
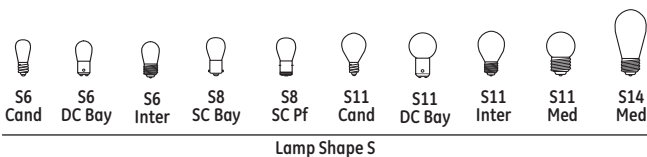
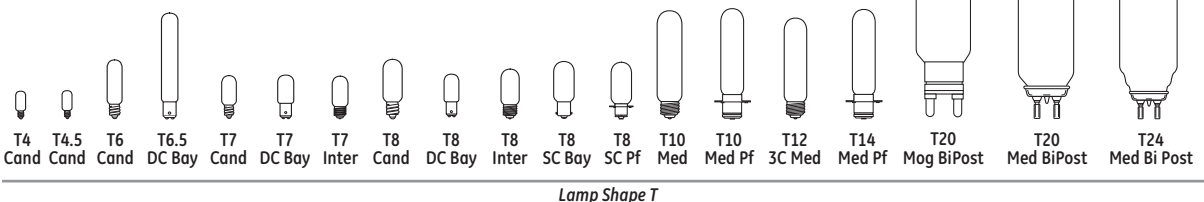
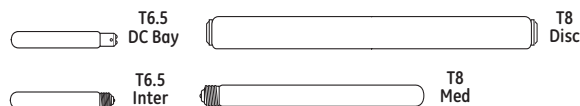
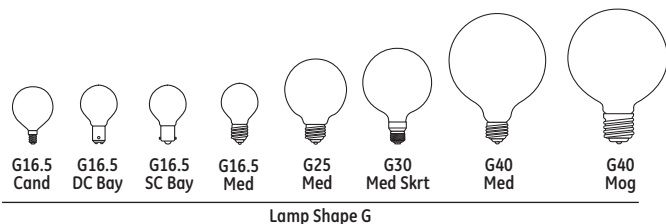
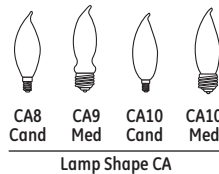
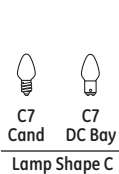
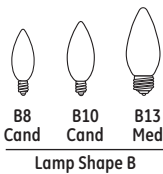
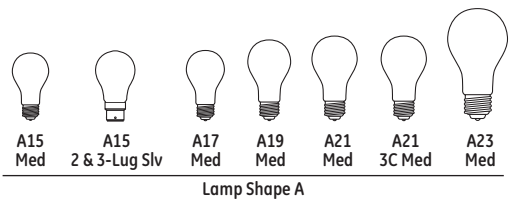
Filament Identification



Base Identification



Lamp Locator



Incandescent Lamps

Introduction

GE's incandescent lamps trace their ancestry to the world's first practical electric bulb, invented by Thomas Alva Edison, founder in 1879 of the company that became General Electric Company.

More than a century of research and development later, the present range of GE incandescent lamps represents the state of the art of lamps for residential and commercial use, as well as special purpose lamps for decorative or display applications.

In an incandescent lamp, light is generated by heating the filament to incandescence. The hotter the filament, the more efficient it is in converting electricity to light. However, when the filament operates hotter, its life is shortened so the design of each lamp is a balance between efficiency and life. This is why lamps of equal wattage may have different lumen ratings and different life ratings.

Incandescent lamps of similar size are commonly available with different wattage ratings. The fixture wattage limit should not be exceeded.

Protection From Moisture

When Hard Glass appears in the Additional Information column, the outer bulbs are made of special thermal-shock-resistant glass. Sometimes external protection of the lamps is also needed to eliminate the chance of bulb breakage due to contact with water during operation. Footnotes will indicate when external protection is needed. Where Hard Glass is not indicated, the bulb glass is such that the lamps require protection from exposure to mist or condensation as well as direct contact with water during operation.

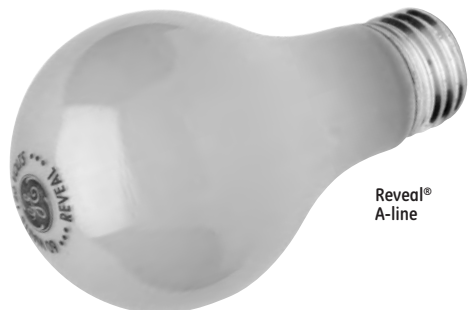
Rated Life

Values are based on a large number of representative lamps under controlled conditions. Individual lamps or groups of lamps will vary from the Rated Life shown. Rated Life is a median value of life expectancy – the total operating time at which under normal conditions 50% of any large group of initially installed lamps are expected to be still burning.

Incandescent Brand Name Cross-Reference

| GE | OSRAM/SYLVANIA | PHILIPS |
|----------------------|-------------------------|------------------------|
| Reveal® | — | — |
| Bug-Lite | Bug Lite | Bug-A-Way® |
| covRguard® | Safeline | Silicone Coated |
| Saf-T-Gard® | — | — |
| Soft Pink | Soft Pink | Softone Pastels |
| Plant Light | Spot-GRO | Agro-Lite |
| Long Life Soft White | Double Life™ Soft White | Longer Life Soft White |
| Party Light | — | — |
| Watt-Miser® | Super Saver® | Econ-o-Watt® |
| Watt-Miser® Plus | Super Saver Excel® | Extended Service |

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE brands. Individual lamp manufacturers' product offerings and performance specifications are subject to change at any time without notice. Lamp performance may be affected by environmental conditions, and/or auxiliary equipment.



Reveal®
A-line

GE Reveal® Light Bulbs

Superior light quality over regular incandescent that:

- Produces “clean, beautiful light®” for more vibrant colors
- Contains Neodymium glass that filters out dull yellow rays
- Is available in 40-150 watt A-Line
- Also available for nearly every application from candle shapes to flood lights
- A color-enhanced full-spectrum light bulb

GE Rough Service A-Line Bulbs

Built to last, even under many “rough” service conditions...

- Extra filament support design protects against early burnouts caused by bumps, jars and vibration
- Longer life
- Dual Voltage Rating (120V/130V) provides application flexibility
- Saf-T-Gard® coating available – coating is shatter and weather-resistant; resists breakage from heat and thermal shock that can occur from water, sleet, snow, molten solder and weld spatter

GE Long Life Floodlight or Spotlight

- 25% longer life than standard reflectors. Ideal for use in high ceilings and hard-to-reach track lighting
- Easy replacement – same length and width as standard R bulbs
- Some lumen loss from standard reflectors (see listing for lumen values)
- Available in 45W floodlight and 65W floodlight and spotlight

Uses:

- Down lighting, display lighting, accent lighting, wall washing
- Wherever standard reflector bulbs are used



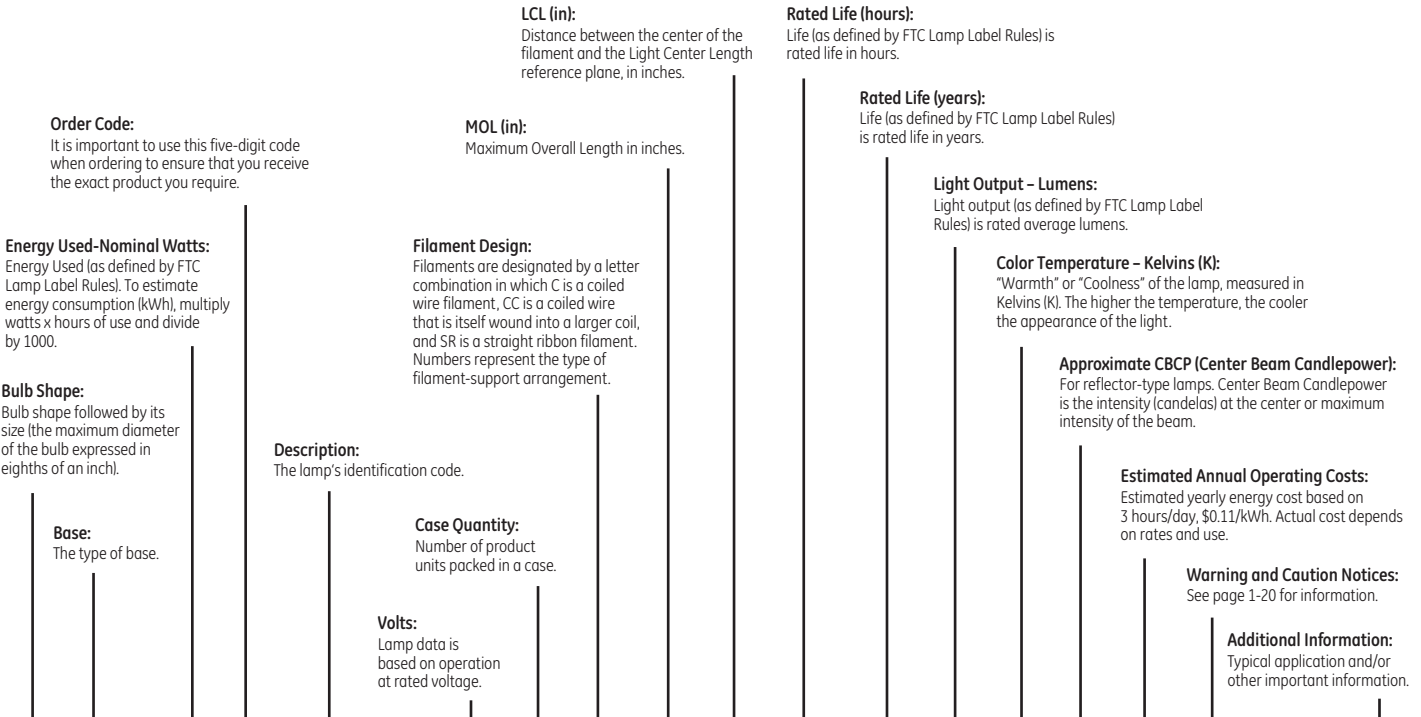
Long Life
BR30 Reflector
Floodlight or
Spotlight

Incandescent Lamps

Headings in this catalog section

The following terms and descriptions can help you when checking Incandescent lamp specifications and when ordering products.

Within this product line, lamps are divided by wattage. Within wattage, lamps are listed alphabetically by bulb shape.



| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|---------------------------|------|-------|------------|-----------------|-------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|------|--------------------------|-----------------------------|------------------------|
| Incandescent Lamps | | | | | | | | | | | | | | | | | |
| 3 Watts | | | | | | | | | | | | | | | | | |
| S6 | Cand | 3 | 11098 | 75R30/FL/65WM/A | 130 | 24 | C-7A | 1.87 | 1.37 | 3000 | 11 | | | | | | Clear-Indicator |

75 R30 / FL / 65WM / A

- Identifies the lamp's wattage.
- Identifies the lamp's shape.
- Identifies the lamp as a floodlight.
- Identifies the lamp as a Watt-Miser®.
- Identifies this lamp as amber colored.

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify the lamp wattage.
2. Measure bulb diameter using ruler in appendix section page D-1 to determine width in eighths of an inch.
3. Identify base type using table on page 1-2.
4. Find your lamp in the table containing the bulb wattage, then match the shape, size and base, which are all listed alphabetically.

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information | |
|---------------------------|--------|-------|------------|-----------------|-------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|------|--------------------------|-----------------------------|-------------------------------|-------------------------------|
| Incandescent Lamps | | | | | | | | | | | | | | | | | | |
| 3 Watts | | | | | | | | | | | | | | | | | | |
| S6 | Cand | 3 | 11098 | 3S6/5 24PK | 130 | 24 | C-7A | 1.87 | 1.37 | 3000 | | 11 | | | | | Clear-Indicator | |
| 4 Watts | | | | | | | | | | | | | | | | | | |
| C7 | Cand | 4 | 16001 | 4C7/W CD2 | 120 | 240 | C-7A | 2.12 | | 3000 | | | | | | 2e | White-Long Life Night Light | |
| | | 4 | 43050 | 4C7 CARD 2 | 120 | 240 | C-7A | 2.12 | | 3000 | | | | | | 2e | Long Life Clear Night Light | |
| | | 4 | 20572 | 4C7/S CD4 | 120 | 120 | C-7A | 2.12 | | 2000 | | | | | | 2e | Standard-Clear Night Light | |
| | | 4 | 73257 | 4C7/S/CD4-6PK | 120 | 6 | C-7A | 2.12 | | 2000 | | | | | | 2e | Standard-Clear Night Light | |
| | | 4 | 20573 | 4C7/W/S CD4 | 120 | 120 | C-7A | 2.12 | | 2000 | | | | | | 2e | Standard-White Night Light | |
| | | 4 | 73258 | 4C7/S/W/CD4-6PK | 120 | 6 | C-7A | 2.12 | | 2000 | | | | | | 2e | Standard-Clear Night Light | |
| | | 4 | 73259 | 4C7/PK/CD2-6PK | 120 | 6 | C-7A | 2.12 | | 3000 | | | | | | 2e | Pink-Long Life Night Light | |
| | | 4 | 26222 | 4C7/PK-CD2 6PK | 120 | 240 | C-7A | 2.12 | | 3000 | | | | | | 2e | Pink-Long Life Night Light | |
| | | 4 | 73260 | 4C7/BL/CD2-6PK | 120 | 6 | C-7A | 2.12 | | 3000 | | | | | | 2e | Blue-Long Life Night Light | |
| | | 4 | 26223 | 4C7/BL CD2 6PK | 120 | 240 | C-7A | 2.12 | | 3000 | | | | | | 2e | Blue-Long Life Night Light | |
| 6 Watts | | | | | | | | | | | | | | | | | | |
| S6 | Cand | 6 | 11316 | 6S6 24PK | 12 | 24 | C-2V | 1.87 | 1.37 | 1500 | | 50 | | | | | | Clear-Indicator |
| | | 6 | 11329 | 6S6 | 24 | 240 | C-2V | 1.87 | 1.37 | 1500 | | 50 | | | | | | Clear-Indicator |
| | | 6 | 11331 | 6S6 24PK | 30 | 24 | C-2V | 1.87 | 1.37 | 1500 | | 50 | | | | | | Clear-Train |
| | | 6 | 43397 | 6S6 BB | 32 | 24 | C-2V | 1.87 | 1.37 | 1500 | | 50 | | | | | | Clear-Train |
| | | 6 | 11367 | 6S6 TRAY | 120 | 240 | C-7A | 1.87 | 1.37 | 1500 | | 41 | | | | | | Clear-Indicator, 12-Lamp Tray |
| | | 6 | 11577 | 6S6/3 | 120 | 240 | C-7A | 1.87 | 1.37 | 5000 | | 23 | | | | | | Clear-Signal Light |
| | | 6 | 15820 | 6S6 CARD2 | 120 | 240 | C-7A | 1.87 | 1.37 | 1500 | | 41 | | | | | | Clear-Indicator |
| | | 6 | 11369 | 6S6 TRAY | 130 | 240 | C-7A | 1.87 | 1.37 | 1500 | | 41 | | | | | | Clear-Indicator, 12-Lamp Tray |
| | | 6 | 11372 | 6S6 | 145 | 240 | C-7A | 1.87 | 1.37 | 1500 | | 38 | | | | | | Clear-Indicator |
| | | 6 | 11374 | 6S6 | 155 | 240 | C-7A | 1.87 | 1.37 | 1500 | | 38 | | | | | | Clear-Indicator |
| S6 | DC Bay | 6 | 11357 | 6S6DC 24PK | 75 | 24 | C-7A | 1.81 | 1.43 | 1500 | | 45 | | | | | | Clear-Indicator |
| | | 6 | 11592 | 6S6DC TRAY | 120 | 240 | C-7A | 1.81 | 1.43 | 1500 | | 41 | | | | | Clear-Indicator, 12-Lamp Tray | |
| | | 6 | 11594 | 6S6/DC TRAY | 130 | 240 | C-7A | 1.81 | 1.43 | 1500 | | 41 | | | | | Clear-Indicator, 12-Lamp Tray | |
| | | 6 | 11609 | 6S6DC 24PK | 145 | 24 | C-7A | 1.81 | 1.43 | 1500 | | 41 | | | | | Clear-Indicator, 12-Lamp Tray | |
| S6 | Inter | 6 | 11660 | 6S6/7 TRAY 24PK | 120 | 24 | C-7A | 1.81 | 1.06 | 1500 | | 41 | | | | | Clear-Indicator, 12-Lamp Tray | |
| T4.5 | Cand | 6 | 11764 | 6T41/2/1 | 130 | 100 | C-7A | 1.87 | 1.31 | 1500 | | 42 | | | | | Clear-Indicator | |
| 7 Watts | | | | | | | | | | | | | | | | | | |
| C7 | Cand | 7 | 11779 | 7C7 TRAY | 120 | 240 | C-7A | 2.12 | | 3000 | | 46 | | | | | | Clear-Indicator, 12-Lamp Tray |
| | | 7 | 11815 | 7C7/W TRAY | 120 | 240 | C-7A | 2.12 | | 3000 | | 36 | | | | | White-Indicator, 12-Lamp Tray | |
| | | 7 | 11792 | 7C7 TRAY | 130 | 240 | C-7A | 2.12 | | 3000 | | 46 | | | | | Clear-Indicator, 12-Lamp Tray | |
| 7.5 Watts | | | | | | | | | | | | | | | | | | |
| S11 | Med | 8 | 11847 | 7 1/2S TRAY | 120 | 240 | C-9 | 2.25 | | 1400 | | 53 | | | | 2e | Clear-12-Lamp Tray | |
| | | 8 | 73261 | 71/2S/CW/CD-5PK | 120 | 5 | C-9 | 2.25 | | 1400 | | 39 | | | | 2e | White | |
| | | 8 | 41267 | 71/2S/CW CARD | 120 | 240 | C-9 | 2.25 | | 1400 | | 39 | | | | 2e | White Night Light | |
| | | 8 | 11848 | 7 1/2S TRAY | 130 | 240 | C-9 | 2.25 | | 1400 | | 53 | | | | 2e | Clear-12-Lamp Tray | |
| | | 8 | 11922 | 7 1/2S/CW TRAY | 130 | 240 | C-9 | 2.25 | | 1400 | | 39 | | | | 2e | White-12-Lamp Tray | |
| 10 Watts | | | | | | | | | | | | | | | | | | |
| S6 | Cand | 10 | 12041 | 10S6/10 | 230 | 24 | C-7A | 1.87 | 1.37 | 1500 | | 66 | | | | | | Clear-Indicator |
| | | 10 | 12050 | 10S6/10 24PK | 250 | 24 | C-7A | 1.87 | 1.37 | 1500 | | 66 | | | | | | Clear-Indicator |
| S6 | DC Bay | 10 | 12060 | 10S6/10DC 24PK | 230 | 24 | C-7A | 1.87 | 1.87 | 1500 | | 66 | | | | | Clear-Indicator | |
| S11 | Cand | 10 | 12249 | 10S11/79 | 120 | 120 | C-7A | 2.31 | 1.56 | 1000 | | 80 | | | | | | Clear-Indicator |
| | | 10 | 12188 | 10S11N/F | 120 | 120 | C-7A | 2.31 | 1.62 | 1000 | | 79 | | | | | | Frost-Appliance |

* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh

Incandescent Lamps

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information | |
|---------------------------------------|--------------|-----------------|------------|-----------------|-------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|-------|--------------------------------|-----------------------------|----------------------------------|--|
| Incandescent Lamps (continued) | | | | | | | | | | | | | | | | | | |
| 15 Watts | | | | | | | | | | | | | | | | | | |
| A15 | Med | 15 | 97491 | 15A/W-2PK | 120 | 24 | C-9 | 3.50 | 2.37 | 2500 | | 110 | | | | | Soft-White | |
| | | 15 | 12658 | 15A15 | 130 | 120 | C-9 | 3.50 | 2.37 | 2500 | | 115 | | | | | Inside Frost | |
| | | 15 | 97488 | 15A15/CL-2PK | 120 | 24 | C-9 | 3.50 | 2.37 | 2500 | | 110 | | | | | Clear | |
| R14 | SC Bay B15 | 15 | 33404 | 15R14SC/SP | 12 | 120 | CC-8 | 2.62 | | 2000 | | 120 | | | | 5e | Reflector Spot | |
| S11 | Cand | 15 | 13210 | 15S11/13 | 120 | 120 | C-7A | 2.25 | 1.56 | 750 | | 115 | | | | | Clear | |
| S11 | DC Bay | 15 | 13188 | 15S11/3DC | 75 | 120 | C-9 | 2.37 | 1.25 | 1000 | | 138 | | | | | Clear-Train | |
| S11 | Med | 15 | 13291 | 15S11/102 | 120 | 240 | C-7A | 2.25 | | 400 | | 120 | | | | | Clear-Refrigerator, 12-Lamp Tray | |
| T6 | Cand | 15 | 13390 | 15T6 | 120 | 60 | C-7A | 3.06 | 1.56 | 2000 | | 107 | | | | | Clear-Exit | |
| | | 15 | 13402 | 15T6 | 145 | 60 | C-7A | 3.06 | 1.56 | 1500 | | 102 | | | | | Clear-Exit | |
| | | 15 | 22114 | 15T6C-CD | 145 | 120 | C-7A | 3.06 | 1.56 | 1500 | | 102 | | | | | Clear-Exit, Blister Card | |
| T7 | Cand | 15 | 13494 | 15T7C | 120 | 120 | C-7A | 2.25 | 1.50 | 3000 | | 108 | | | | | Clear-Signal Light, Appliance | |
| T7 | DC Bay | 15 | 35154 | 15T7DC CARD | 120 | 240 | C-7A | 2.25 | 1.31 | | | 108 | | | | | Clear-Appliance, 12-Pack | |
| T7 | Inter | 15 | 35153 | 15T7N CARD | 120 | 240 | C-7A | 2.25 | 1.56 | | | 108 | | | | | Clear-Appliance | |
| T10 | Med | 15 | 34407 | 15T10 24PK | 120 | 24 | C-8 | 5.60 | | 2500 | | 120 | | | | 5e, 9d | Clear - Aquarium Light Bulb | |
| 15/135/150 Watts | | | | | | | | | | | | | | | | | | |
| A21 | Med | 15/135/150 | 23068 | 15/150-SECURITY | 120 | 60 | C-2R/CC-8 | 5.25 | 3.87 | 1200 | 1.1 | 75/2080/2155 | 2800 | | \$1.81/ \$16.26/ \$18.07 | 2b, 9c, 9j | Security 3-Way, Soft-White | |
| 18 Watts | | | | | | | | | | | | | | | | | | |
| S11 | SC Bay BA15s | 18 | 13655 | 18S11/15C | 10 | 120 | CC-6 | 2.37 | 1.25 | 2000 | | 200 | | | | | Clear-Railway Signal Light | |
| 20 Watts | | | | | | | | | | | | | | | | | | |
| T6.5 | DC Bay | 20 | 34241 | 20T61/2DC/F | 120 | 60 | C-8 | 5.56 | | 5000 | | 90 | | | | | Frost-Exit Light | |
| T6.5 | Inter | 20 | 34272 | 20T61/2/F | 120 | 60 | C-8 | 5.50 | | 7000 | | 90 | | | | | Frost-Exit Light | |
| 25 Watts | | | | | | | | | | | | | | | | | | |
| A19 | Med | 25 | 97478 | 25A/CL-2PK | 120 | 24 | CC-6 | 4.25 | 2.50 | 2500 | | 215 | | | \$3.01 | | Clear | |
| | | 25 | 97857 | 25A/CL/2PK-130V | 130 | 24 | CC-6 | 4.25 | 2.50 | 2500 | | 215 | | | \$3.01 | | Clear | |
| | | 25 | 97864 | 25A/2PK-130V | 130 | 24 | CC-6 | 4.25 | 2.50 | 2500 | | 215 | | | \$3.01 | | Inside Frost | |
| | | 25 | 97492 | 25A/W-2PK | 120 | 24 | CC-6 | 4.25 | 2.50 | 2500 | | 210 | | | \$3.01 | | Soft White | |
| | | 25 | 97765 | 25A/W-2/10PK | 120 | 20 | CC-6 | 4.25 | 2.50 | 2500 | | 210 | | | \$3.01 | | Soft White | |
| | | 25 | 16333 | 25A/TP-CD 6PK | 120 | 24 | C-9 | 3.87 | 2.37 | 2000 | | | | | \$3.01 | | Transp. Purple-Party Light | |
| | | 25 | 16335 | 25A/TY-CD 6PK | 120 | 24 | C-9 | 3.87 | 2.37 | 2000 | | | | | \$3.01 | | Transp. Yellow-Party Light | |
| | | 25 | 22731 | 25A/TP 6 PK | 120 | 120 | C-9 | 3.87 | 2.37 | 2000 | | | | | \$3.01 | | Transp. Purple-Party Light | |
| | | 25 | 49728 | 25A/TY 6PK | 120 | 120 | C-9 | 3.87 | 2.37 | 2000 | | | | | \$3.01 | | Transp. Yellow-Party Light | |
| | | 25 | 49724 | 25A/TB 6PK | 120 | 120 | C-9 | 3.87 | 2.37 | 2000 | | | | | \$3.01 | | Transp. Blue-Party Light | |
| | | 25 | 22732 | 25A/TE 6PK | 120 | 120 | C-9 | 3.87 | 2.37 | 2000 | | | | | \$3.01 | | Transp. Teal-Party Light | |
| | | 25 | 49725 | 25A/TG 6PK | 120 | 120 | C-9 | 3.87 | 2.37 | 2000 | | | | | \$3.01 | | Transp. Green-Party Light | |
| | | 25 | 22730 | 25A/TPK 6PK | 120 | 120 | C-9 | 3.87 | 2.37 | 2000 | | | | | \$3.01 | | Transp. Pink-Party Light | |
| | | 25 | 49727 | 25A/TR 6PK | 120 | 120 | C-9 | 3.87 | 2.37 | 2000 | | | | | \$3.01 | | Transp. Red-Party Light | |
| 25 | 46645 | 25A/SG/CD-PQ1/5 | 120 | 25 | CC-6 | 4.25 | 2.50 | 1500 | | | | | \$3.01 | | Stained Glass | | | |
| PAR36 | Scrw Term | 25 | 14553 | 25PAR36 | 6 | 12 | C-6 | 2.75 | | 1000 | | 130 | 3000 | 19700 | | | Pin Spot, Filament Shield | |
| | | 25 | 14554 | 25PAR36/NSP | 12 | 12 | C-6 | 2.75 | | 2000 | | 150 | | 2600 | | | Narrow Spot, Filament Shield | |
| | | 25 | 14555 | 25PAR36/WFL | 12 | 12 | C-6 | 2.75 | | 2000 | | 150 | | 360 | | | Wide Flood, Filament Shield | |
| | | 25 | 14556 | 25PAR36/VWFL | 12 | 12 | C-6 | 2.75 | | 2000 | | 150 | | 160 | | | Very Wide Flood, Filament Shield | |

* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|---------------------------------------|--------------|-----------|------------|-------------------|-------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|-------|--------------------------|-----------------------------|---|
| Incandescent Lamps (continued) | | | | | | | | | | | | | | | | | |
| 25 Watts (continued) | | | | | | | | | | | | | | | | | |
| PAR46 | Scrw Term | 25 | 14562 | 25PAR46 | 6 | 12 | C-6 | 3.75 | | 1000 | | 140 | | 55000 | | | Pin Spot, Filament Shield |
| R14 | Inter | 25 | 18230 | 25R14N | 130 | 120 | CC-2V | 2.56 | | 1500 | | 180 | | | \$3.01 | 5e | Reflector-Light, Inside Frost |
| | | 25 | 39156 | 25R14N | 120 | 120 | CC-2V | 2.56 | | 1500 | | 180 | | | \$3.01 | 5e | Reflector-Light, Inside Frost |
| R14 | SC Bay B15 | 25 | 33405 | 25R14SC/SP | 12 | 120 | CC-8 | 2.62 | | 2000 | | 200 | | | \$3.01 | 5e | Reflector Spot, Light Inside Frost |
| S11 | SC Bay BA15s | 25 | 14575 | 25S11/4SC | 10 | 120 | CC-6 | 2.37 | 1.25 | 1000 | | 360 | | | \$3.01 | | Clear-Railway, Signal Light |
| T6.5 | DC Bay | 25 | 14676 | 25T61/2DC | 120 | 60 | C-8 | 5.56 | | 1000 | | 220 | | | \$3.01 | | Clear-Appliance, Scale Illuminator |
| | | 25 | 14678 | 25T61/2/DC | 130 | 60 | C-8 | 5.56 | | 1000 | | 244 | | | \$3.01 | | Clear-Appliance, Scale Illuminator |
| | | 25 | 14685 | 25T61/2DC/F | 130 | 60 | C-8 | 5.56 | | 1000 | | 240 | | | \$3.01 | | Frost-Appliance, Scale Illuminator |
| T6.5 | Inter | 25 | 14639 | 25T61/2 | 120 | 60 | C-8 | 5.50 | | 1000 | | 220 | | | \$3.01 | | Clear-Showcase |
| | | 25 | 14641 | 25T61/2 | 130 | 60 | C-8 | 5.50 | | 1000 | | 244 | | | \$3.01 | | Clear-Showcase |
| | | 25 | 44727 | 25T61/2 CD1-6PK | 120 | 20 | C-8 | 5.50 | | 1000 | | 220 | | | \$3.01 | | Clear-Showcase |
| | | 25 | 14668 | 25T61/2/F | 130 | 60 | C-8 | 5.50 | | 1000 | | 240 | | | \$3.01 | | Frost-Showcase |
| T7 | DC Bay | 25 | 14741 | 25T7DC | 120 | 60 | C-7A | 2.25 | 1.31 | 1000 | | 195 | | | \$3.01 | | Clear-Appliance |
| T7 | Inter | 25 | 10692 | 25T7N-CD 6PK | 120 | 240 | C-7A | 2.25 | 1.56 | 1000 | | 195 | | | \$3.01 | | Clear-Appliance |
| | | 25 | 14791 | 25T7N | 120 | 60 | C-7A | 2.25 | 1.56 | 1000 | | 195 | | | \$3.01 | | Clear-Appliance |
| T10 | Med | 25 | 45144 | 25T10 CD1-5PK | 130 | 25 | C-8 | 5.60 | | 1000 | | 250 | | | \$3.01 | 5e, 9d | Clear-Display Light |
| | | 25 | 14880 | 25T10 24PK | 120 | 192 | C-8 | 5.60 | | 1000 | | 250 | | | \$3.01 | 5e, 9d | Clear-Display Light |
| | | 25 | 45513 | 25T10/F CD1-5PK | 130 | 25 | C-8 | 5.60 | | 1000 | | 250 | | | \$3.01 | 5e, 9d | Frost-Display Light |
| 27 Watts | | | | | | | | | | | | | | | | | |
| R20 | Med | 27 | 47681 | 27R20/FL/LL 6PK | 120 | 30 | CC-6 | 3.93 | | 2500 | 2.3 | 140 | 2500 | | \$3.25 | 5b, 9k | Long Life Reflector-Indoor Spotlight, Reduced Wattage |
| 30 Watts | | | | | | | | | | | | | | | | | |
| R20 | Med | 30 | 14891 | 30R20/1-6PK | 120 | 30 | CC-6 | 3.93 | | 2000 | 1.8 | 180 | 2500 | | \$3.61 | 5b, 9k | Indoor Reflector |
| | | 30 | 46848 | 30R20/1 | 130 | 30 | C-9 | 3.93 | | 2000 | | 180 | | | \$3.61 | 5b, 9k | Indoor Reflector-Light I.F |
| | | 30 | 46849 | 30R20/6 | 130 | 30 | C-9 | 3.93 | | 6000 | | 145 | | | \$3.61 | 9d | Reflector-Light I.F-Flashing Message Sign |
| S11 | DC Bay | 30 | 17948 | 30S11/DC/RS | 75 | 30 | C-9 | 2.37 | 1.54 | 2000 | | 275 | | | \$3.61 | | Clear-Train |
| 30/70/100 Watts | | | | | | | | | | | | | | | | | |
| A21 | Med | 30/70/100 | 97493 | 30/100-1PK | 120 | 12 | C-2R/CC-8 | 5.25 | 3.88 | 1200 | 1.1 | 305/995/1300 | 2800 | | \$3.61/\$8.43/\$12.05 | 2b, 5c, 9c, 9j | Soft-White, 3-Way |
| | | 30/70/100 | 97784 | 30/100RVL- PQ1/12 | 120 | 12 | C-2R | 5.25 | 3.88 | 1200 | 1.1 | 220/740/960 | 2850 | | \$3.61/\$8.43/\$12.05 | 2b, 9c, 9j | Reveal® Soft-White, 3-Way |
| 40 Watts | | | | | | | | | | | | | | | | | |
| A15 | Med | 40 | 15199 | 40A15 | 120 | 120 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 415 | 2600 | | \$4.82 | | Clear-Appliance and Oven Service, Vibration Resistant |
| | | 40 | 15206 | 40A15 CARD 12PK | 120 | 60 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 415 | 2600 | | \$4.82 | | Clear-Appliance and Oven Service, Vibration Resistant |
| | | 40 | 21188 | 40A15 CD/2 | 120 | 60 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 415 | 2600 | | \$4.82 | | Clear-Appliance and Oven Service, Vibration Resistant |
| | | 40 | 27495 | 40A15/F/CD | 120 | 60 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 355 | 2600 | | \$4.82 | | Frosted-Appliance and Oven Service, Vibration Resistant |
| | | 40 | 27451 | 40A15/F 120PK | 120 | 120 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 355 | 2600 | | \$4.82 | | Frost |
| | | 40 | 44409 | 40A15/CF CD2 6PK | 120 | 30 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 415 | 2600 | | \$4.82 | | Clear-Ceiling Fan, Vibration Resistant |
| | | 40 | 44410 | 40A15W/CFCD2 6PK | 120 | 30 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 355 | 2600 | | \$4.82 | | White-Ceiling Fan, Vibration Resistant |
| | | 40 | 48696 | 40A15/CF/RVL CD2 | 120 | 30 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 320 | 2600 | | \$4.82 | | Reveal® Clear, Ceiling Fan, Vibration Resistant |

* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh

Incandescent Lamps

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information | |
|---------------------------------------|-----------|-------|------------|-------------------|---------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|-------|--------------------------|-----------------------------|--|--|
| Incandescent Lamps (continued) | | | | | | | | | | | | | | | | | | |
| 40 Watts (continued) | | | | | | | | | | | | | | | | | | |
| A15 | Med | 40 | 48697 | 40A15WCF/RVL CD2 | 120 | 30 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 260 | | | \$4.82 | | Reveal® Soft-White, Ceiling Fan, Vibration Resistant | |
| | | 40 | 31084 | 40A15/RVL-PQ1/6 | 120 | 30 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 320 | | | \$4.82 | | Reveal® Clear | |
| | | 40 | 48706 | 40A15/RVL CD2 | 120 | 30 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 320 | | | \$4.82 | | Reveal® Clear, Appliance | |
| | | 40 | 46887 | 40A15/CF/STGPQ2/6 | 120 | 30 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 405 | 2600 | | \$4.82 | 2a, 2b, 5e, 9l | Clear, Saf-T-Gard®, Ceiling Fan | |
| A15 | Cond | 40 | 71393 | 40A15/CA/C/CF-CD2 | 120 | 6 | C-7A | 3.50 | 2.37 | 1500 | 1.4 | 305 | 2500 | | \$4.82 | | Clear-Ceiling Fan, Vibration Resistant | |
| | | 40 | 71394 | 40A15/CA/W/CF-CD2 | 120 | 6 | C-7A | 3.50 | 2.37 | 1500 | 1.4 | 230 | 2500 | | \$4.82 | | White-Ceiling Fan, Vibration Resistant | |
| R14 | Inter | 40 | 25777 | 40R14/N/CD | 120 | 30 | CC-2V | 2.68 | | 1500 | 1.4 | 280 | | | \$4.82 | 2a, 5e | Indoor Reflector | |
| R14 | Med | 40 | 25776 | 40R14/CD | 120 | 30 | CC-2V | 2.18 | | 1500 | 1.4 | 280 | | | \$4.82 | 2a, 5e | Indoor Reflector | |
| R16 | Med | 40 | 25781 | 40R16/CD | | 30 | CC-6 | | | 1500 | 1.4 | 225 | 2500 | | \$4.82 | 2a, 5e | Indoor Reflector | |
| S11 | Inter | 40 | 15734 | 40S11N/1/F | 120 | 120 | C-9 | 2.31 | 1.62 | 500 | | 440 | | | \$4.82 | 5b | Frost | |
| | | 40 | 35156 | 40S11N/1 CARD | 120 | 240 | C-9 | 2.31 | 1.62 | 500 | | 440 | | | \$4.82 | 5b | Clear-12-Card Pack | |
| T6.5 | Inter | 40 | 15740 | 40T6 1/2/2 | 120 | 60 | C-8 | 5.50 | | 750 | | 420 | | | \$4.82 | | Clear-Refrigerator | |
| | | 40 | 44422 | 40T6 1/2/2CD1-6PK | 120 | 30 | C-8 | 5.50 | | 750 | | 380 | | | \$4.82 | | Clear-Appliance | |
| | | 40 | 15742 | 40T6 1/2/2F | 120 | 60 | C-8 | 5.50 | | 750 | | 380 | | | \$4.82 | | Frost-Appliance | |
| T10 | Med | 40 | 15852 | 40T10 | 120 | 120 | C-8 | 5.60 | | 1000 | 0.9 | 420 | 2500 | | \$4.82 | 5e, 9d | Clear-Display Light | |
| | | 40 | 15892 | 40T10/F | 120 | 120 | C-8 | 5.60 | | 1000 | 0.9 | 415 | 2500 | | \$4.82 | 5e, 9d | Frost-Display Light | |
| | | 40 | 45145 | 40T10/F CD1-5PK | 120 | 25 | C-8 | 5.60 | | 1000 | 0.9 | 415 | 2500 | | \$4.82 | 5e, 9d | Frost-Display Light | |
| | | 40 | 45514 | 40T10/CL CD1-5PK | 120 | 25 | C-8 | 5.60 | | 1000 | 0.9 | 420 | 2500 | | \$4.82 | 5e, 9d | Clear-Display Light | |
| | | 40 | 48707 | 40T10/RVL CD1 | 120 | 25 | C-8 | 5.60 | | 1000 | 0.9 | 290 | 2550 | | \$4.82 | 5e, 9d | Reveal® - Clear-Display Light | |
| | | 40 | 48709 | 40T10/F/RVL CD1 | 120 | 25 | C-8 | 5.60 | | 1000 | 0.9 | 290 | 2550 | | \$4.82 | 5e, 9d | Reveal® - Frost-Display Light | |
| 45 Watts | | | | | | | | | | | | | | | | | | |
| BR30 | Med | 45 | 20330 | 45R/FL/MI-1 6PK | 120 | 30 | CC-6 | 5.37 | | 2000 | 1.8 | 425 | 2600 | | \$5.42 | 2a, 5e, 9k | Indoor Reflector | |
| | | 45 | 26804 | 45R30/FL/LL 6PK | 120 | 30 | CC-6 | 5.37 | | 2500 | 2.3 | 400 | 2600 | | \$5.42 | 2a, 2b, 5e, 9k | Long Life Indoor Reflector | |
| R20 | Med | 45 | 14878 | 45R20M/1-6PK | 120 | 30 | CC-6 | 3.31 | | 2000 | 1.8 | 310 | 2600 | | \$5.42 | 2a, 5e, 9k | Indoor Reflector | |
| | | 45 | 18279 | 45R20/TWIN | 120 | 30 | CC-6 | 3.31 | | 2000 | 1.8 | 310 | 2600 | | \$5.42 | 2a, 5e, 9k | Indoor Reflector | |
| | | 45 | 47682 | 45R20/FL/LL 6PK | 120 | 30 | CC-6 | 3.31 | | 2500 | 2.3 | 310 | 2500 | | \$5.42 | 2a, 5e, 9k | Long Life Indoor Reflector | |
| | | 45 | 73026 | 45R20/YR | 120 | 6 | CC-6 | 3.31 | | 1500 | 1.4 | 350 | 2500 | | \$5.42 | 2a, 5e, 9k | Indoor Reflector | |
| | | 45 | 73025 | 45R20/YR-PK2/3 | 120 | 3 | CC-6 | 3.31 | | 1500 | 1.4 | 350 | 2500 | | \$5.42 | 2a, 5e, 9k | Indoor Reflector | |
| | | 45/40 | 73029 | 45R20/130V | 130/120 | 30 | CC-6 | 3.31 | | 2000/4000 | 1.8/3.6 | 300/225 | 2500 | | \$5.42 | 2a, 5e, 9k | Indoor Reflector | |
| | | 45 | 73439 | 45R20/RVL PK1/6 | 120 | 30 | CC-6 | 3.31 | | 2000 | 1.8 | 230 | 2550 | | \$5.42 | 2a, 5e, 9k | Indoor Reflector | |
| 50 Watts | | | | | | | | | | | | | | | | | | |
| A19 | Med | 50 | 16201 | 50A19/RS/SH | 75 | 120 | C-9 | 3.87 | 2.50 | 1000 | | 500 | | | | 2a, 5a | Train, Rough Service Short | |
| PAR36 | Scrw Term | 50 | 11468 | 50PAR36/WFL/4 | 12 | 12 | C-6 | 2.75 | | 4000 | | 300 | | 720 | | | Wide Flood, Filament Shield | |
| | | 50 | 12892 | 50PAR36/VNSP | 12 | 12 | C-6 | 2.75 | | 2000 | | 330 | | 19000 | | | Very Narrow Spot, Filament Shield | |
| | | 50 | 16540 | 50PAR36/NSP | 12 | 12 | C-6 | 2.75 | | 2000 | | 330 | | 11000 | | | Narrow Spot, Filament Shield | |
| | | 50 | 16541 | 50PAR36/WFL | 12 | 12 | C-6 | 2.75 | | 2000 | | 330 | | 900 | | | Wide Flood, Filament Shield | |
| | | 50 | 16542 | 50PAR36/VWFL | 12 | 12 | C-6 | 2.75 | | 2000 | | 330 | | 600 | | | Very Wide Flood, Filament Shield | |
| R20 | Med | 50 | 14888 | 50R20/PL/1-6PK | 120 | 30 | CC-6 | 3.93 | | 2000 | | | | | \$6.02 | 2a, 5e, 9k | Reflector Plant Light | |
| | | 50 | 22752 | 50R20/BLB 6PK | 120 | 6 | CC-6 | 3.93 | | 1000 | | | | | \$6.02 | 2a, 2f, 5b, 7a, 7c, 9k | Blacklight Reflector | |
| ER30 | Med | 50 | 44429 | 50ER30 | 120 | 24 | CC-6 | 6.06 | | 2000 | | | | | \$6.02 | | Elliptical Reflector | |

* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|---------------------------------------|-----------|------------|------------|-------------------|---------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|------|--------------------------|-----------------------------|---|
| Incandescent Lamps (continued) | | | | | | | | | | | | | | | | | |
| 50/100/150 Watts | | | | | | | | | | | | | | | | | |
| A21 | Med | 50/100/150 | 97494 | 50/150-1PK | 120 | 12 | CC-8 | 5.25 | 3.87 | 1200 | 1.1 | 615/1540/2155 | 2800 | | \$6.02/\$12.05/\$18.07 | 2b, 9j | Soft-White, 3-Way |
| | | 50/100/150 | 97763 | 50/150-2PK | 120 | 6 | CC-8 | 5.25 | 3.87 | 1200 | 1.1 | 615/1540/2155 | 2800 | | \$6.02/\$12.05/\$18.07 | 2b, 9j | Soft-White, 3-Way |
| | | 50/100/150 | 97785 | 50/150RVL-1/12PQ | 120 | 12 | CC-8 | 5.25 | 3.87 | 1200 | 1.1 | 450/1150/1600 | 2850 | | \$6.02/\$12.05/\$18.07 | 2b, 9j | Reveal®, Soft-White 3-Way |
| | | 50/100/150 | 97469 | 50/150/RVL-2PK | 120 | 6 | CC-8 | 5.25 | 3.87 | 1200 | 1.1 | 450/1150/1600 | 2850 | | \$6.02/\$12.05/\$18.07 | 2b, 9j | Reveal®, Soft-White 3-Way |
| | | 50/100/150 | 97781 | 50/150/LL-1/12PK | 120 | 12 | CC-8 | 5.25 | 3.87 | 1920 | 1.8 | 560/1400/1960 | 2800 | | \$6.02/\$12.05/\$18.07 | 2b, 9j | Long Life, Soft-White 3-Way |
| 50/200/250 Watts | | | | | | | | | | | | | | | | | |
| A21 | Med | 50/200/250 | 97482 | 50/250/1-1PK | 120 | 12 | CC-8/CC-25 | 5.25 | 3.87 | 1200 | 1.1 | 590/3335/3925 | 2800 | | \$6.02/\$24.09/\$30.11 | 2b, 9c, 9j | Soft-White, 3-Way |
| 60 Watts | | | | | | | | | | | | | | | | | |
| A19 | Med | 60/53 | 72528 | 60A/S/130-TP2/12 | 130/120 | 24 | C-7A | | | 3000 | 2.7 | 625/475 | | | | | Rough-Service |
| | | 60/53 | 72529 | 60A/RS130-PK2/12 | 130/120 | 24 | C-7A | 4.13 | 2.91 | 2000/5400 | | 625/475 | | | \$7.23/\$6.38 | 2a, 5e | Rough Service |
| | | 60/53 | 72549 | 60A/RS/STG-T2/12 | 130/120 | 24 | C-7A | 4.13 | 2.91 | 2000/5400 | | 500/380 | | | \$7.23/\$6.38 | 2a, 2b, 5e, 9l | Rough Service Saf-T-Gard® |
| | | 60 | 97483 | 60A/SPK-2PK | 120 | 24 | CC-6 | 4.43 | 3.12 | 1000 | | 675 | | | \$7.23 | 2b | Soft Pink |
| | | 60 | 97495 | 60A/Y-2PK | 120 | 24 | CC-6 | 4.43 | 3.12 | 1000 | | 550 | | | \$7.23 | 2b | Yellow-Bug Light |
| | | 60 | 25905 | 60A/BLB 6PK | 120 | 30 | C-9 | 4.43 | | 1000 | | | | | \$7.23 | 2a, 2f, 5b, 7a, 7c, 9k | Blacklight |
| | | 60 | 41624 | 60A/PL 6PK | 120 | 30 | CC-6 | 4.43 | 3.12 | 1000 | | 630 | | | \$7.23 | 5e | Plant |
| A15 | Med | 60 | 44407 | 60A15/CF CD2 6PK | 120 | 30 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 650 | 2700 | | \$7.23 | | Clear-Ceiling Fan, Vibration Resistant |
| | | 60 | 14029 | 60A15/W/CF-CD2 | 120 | 60 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 650 | 2700 | | \$7.23 | | White-Ceiling Fan, Vibration Resistant |
| | | 60 | 46888 | 60A15CF/STGPQ2/6 | 120 | 30 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 635 | 2700 | | \$7.23 | 2a, 2b, 5e, 9l | Ceiling Fan Saf-T-Gard® |
| A15 | Cand | 60 | 71395 | 60A15/CA/C/CF-CD2 | 120 | 6 | C-7A | 3.50 | 2.37 | 1500 | 1.4 | 635 | 2500 | | \$7.23 | | Clear-Ceiling Fan, Vibration Resistant |
| | | 60 | 71396 | 60A15/CA/W/CF-CD2 | 120 | 6 | C-7A | 3.50 | 2.37 | 1500 | 1.4 | 440 | 2500 | | \$7.23 | | White-Ceiling Fan, Vibration Resistant |
| | | 60 | 48698 | 60A15/CF/RVL CD2 | 120 | 30 | C-9 | 3.50 | 2.37 | 1500 | 1.4 | 500 | | | \$7.23 | | Reveal® - Clear, Ceiling Fan, Vibration Resistant |
| R46 | Scrw Term | 60 | 17212 | 60PAR/2/R | 38 | 12 | CC-2V | 3.75 | | 800 | | | | | | | Red Lens - Train Warning |
| 65 Watts | | | | | | | | | | | | | | | | | |
| BR30 | Med | 65 | 18011 | 65R/FL/MI-TWIN | 120 | 6 | CC-6 | 5.37 | | 2000 | 1.8 | 700 | 2600 | | \$7.83 | 2a, 5e, 9k | Indoor Reflector, Twin Pink |
| | | 65 | 20331 | 65R30/FL/MI-6PK | 120 | 30 | CC-6 | 5.37 | | 2000 | 1.8 | 700 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Indoor Reflector, Flood |
| | | 65 | 20332 | 65R30/SP/MI-6PK | 120 | 30 | CC-6 | 5.37 | | 2000 | 1.8 | 700 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Indoor Reflector, Spot |
| | | 65 | 22714 | 65R30FL/COMM12PK | 120 | 12 | CC-6 | 5.37 | | 2000 | 1.8 | 700 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Indoor Reflector, 12 Pack |
| | | 65 | 26805 | 65R30/FL/LL 6PK | 120 | 30 | CC-6 | 5.37 | | 2500 | 2.3 | 670 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Long Life, Indoor Reflector, Flood |
| | | 65 | 48917 | 65R30/FL/LLPQ2/3 | 120 | 15 | CC-6 | 5.37 | | 2500 | 2.3 | 670 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Long Life, Indoor Reflector, Flood |
| | | 65 | 26806 | 65R30/SP/LL 6PK | 120 | 30 | CC-6 | 5.37 | | 2500 | 2.3 | 670 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Long Life, Indoor Reflector, Spot |
| | | 65 | 11684 | 65R30FLRVL-PK2/3 | 120 | 15 | CC-6 | 5.37 | | 2000 | 1.8 | 510 | 2650 | | \$7.83 | 2a, 2b, 5e, 9k | Reveal® Floodlight |
| | | 65 | 48692 | 65R/FL/RVL PQ1/6 | 120 | 30 | CC-6 | 5.37 | | 2000 | 1.8 | 510 | 2650 | | \$7.83 | 2a, 2b, 5e, 9k | Reveal® Floodlight |

* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh

Incandescent Lamps

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information | |
|---------------------------------------|------------|------------|------------|-------------------|---------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|------|--------------------------------|-----------------------------|--------------------------------------|--------------------------|
| Incandescent Lamps (continued) | | | | | | | | | | | | | | | | | | |
| 65 Watts (continued) | | | | | | | | | | | | | | | | | | |
| BR30 | Med | 65 | 73179 | 65R30/RVL/TW-3PK | 120 | 3 | CC-6 | 5.37 | | 2000 | 1.8 | 530 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Reveal® Floodlight | |
| | | 65 | 47723 | 65R30/STG/PQ1/6 | 120 | 30 | CC-6 | 5.37 | | 2000 | 1.8 | 650 | 2700 | | \$7.83 | 2a, 2b, 5e, 9a, 9k, 9l, 9m | Indoor Reflector, Flood, Saf-T-Gard® | |
| | | 65 | 20996 | 65R30/PL-1 6PK | 120 | 30 | CC-6 | 5.37 | | 2000 | | | | | \$7.83 | 2a, 2b, 5e, 9k | Reflector, Plant Light | |
| | | 65 | 46855 | 65R30/FL | 130 | 30 | CC-6 | 5.37 | | 2000/5200 | 1.8 | 670/510 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Watt-Miser® Reflector | |
| | | 65 | 46856 | 65R30/SP | 130 | 30 | CC-6 | 5.37 | | 2000/5200 | 1.8 | 670/510 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Watt-Miser® Reflector | |
| BR40 | Med | 65 | 14016 | 65R40/FL/MI-6PK | 120 | 30 | CC-6 | 6.56 | | 2000 | 1.8 | 580 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Indoor Reflector, Flood | |
| | | 65 | 47683 | 65R40/FL/LL | 120 | 30 | CC-6 | 6.56 | | 2500 | 2.3 | 480 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Long Life, Indoor Reflector, Flood | |
| | | 65 | 46861 | 65R40/FL | 130 | 30 | CC-6 | 6.56 | | 2000 | 1.8 | 475 | 2600 | | \$7.83 | 2a, 2b, 5e, 9k | Watt-Miser® Reflector-LF. | |
| BR40 | Med | 65 | 87904 | 65R40FL/RVL-TP6 | 120 | 30 | CC-6 | 6.56 | | 2000 | 1.8 | 470 | 2650 | | \$7.83 | 2a, 2b, 5e, 9k | Reveal® Reflector Flood | |
| PAR38 | Med Sid Pr | 65 | 80314 | 75PAR/3FL/65WWM | 120 | 12 | CC-6 | 4.30 | | 2000 | 1.8 | 675 | 2675 | 1750 | \$7.83 | 1a, 2a, 2b | Compact Flood, Reduced Wattage | |
| 70 Watts | | | | | | | | | | | | | | | | | | |
| A21 | Med | 70/170/240 | 15846 | 70/240A/RL/SW6PK | 120 | 30 | CC-8/CC-8 | 5.25 | 3.62 | 1000 | 0.9 | 800/2800/3600 | 2850 | | \$8.43/ \$20.48/ \$28.91 | | 3-Way Reader Light | |
| 75 Watts | | | | | | | | | | | | | | | | | | |
| A19 | Med | 75/67 | 72530 | 75A/RS130-PK6 | 130/120 | 6 | C-7A | 4.13 | 2.91 | 2000/5400 | | 740/560 | | | \$9.03/\$8.07 | 2a, 5e | Rough Service | |
| A21 | Med | 75 | 18274 | 75A/RS 12PK-5 | 120 | 60 | C-7A | 4.13 | 2.91 | 1000 | 0.9 | 750 | | | \$9.03 | 2a | Rough-Service | |
| | | 75 | 46895 | 75A/RS/STG PQ1/6 | 120 | 30 | C-7A | 4.13 | 3.66 | 1000 | 0.9 | 715 | | | \$9.03 | 2a, 2b, 5e, 9l | Rough Service, Saf-T-Gard® | |
| | | 75/66 | 17527 | 75A/RS 60PK | 130/120 | 60 | C-7A | 4.13 | 2.91 | 1000/2850 | 0.9/2.6 | 740/560 | | | \$9.03/\$7.95 | 2a, 2b, 5e, 9l | Rough-Service | |
| | | 75/67 | 72550 | 75A/RS/STG-TP6 | 130/120 | 6 | C-7A | 4.13 | 2.91 | 2000/5400 | | 740/560 | | | \$9.03/\$8.07 | 2a | Rough Service, Saf-T-Gard® | |
| R30 | Med | 75 | 22748 | 75R30/BLB 6PK | 120 | 6 | C-9 | 5.37 | | 1000 | | | | | \$9.03 | 2a, 2f, 5b, 7a, 7c, 9k | Reflector Blacklight | |
| PAR38 | Med Sid Pr | 75 | 80319 | 75PAR/3SP/MINE | 120 | 12 | CC-6 | 4.30 | | 2000 | | 765 | 2725 | | | 1a, 2a, 2b, 9n | Mine Reflector | |
| | | 75 | 80316 | 75PAR/3FL/MINE | 120 | 12 | CC-6 | 4.30 | | 2000 | | 765 | 2725 | 1750 | | 1a, 2a, 2b, 9n | Mine, Flood | |
| PAR46 | 3 Prong | 75 | 36473 | 75PAR46/TS | 120 | 12 | CC-6 | 3.87 | | 6000 | | 700 | | | | | Traffic Signal | |
| 85 Watts | | | | | | | | | | | | | | | | | | |
| PAR38 | Med Skirt | 85 | 20945 | 85PAR/FL/BG 6PK | 120 | 6 | CC-6 | 5.31 | | 2000 | | | | | | | 1a, 2a, 2b | Yellow-Bug Light, BB |
| | | 85 | 13465 | 100PAR/B/85WM6PK | 120 | 6 | CC-6 | 5.31 | | 2000 | | | | | | | 1a, 2a, 2b | Powder Coated-Blue, BB |
| | | 85 | 13472 | 100PAR/R/85WM6PK | 120 | 6 | CC-6 | 5.31 | | 2000 | | | | | | | 1a, 2a, 2b | Powder Coated-Red, BB |
| | | 85 | 13473 | 100PAR/Y/85WM6PK | 120 | 6 | CC-6 | 5.31 | | 2000 | | | | | | | 1a, 2a, 2b | Powder Coated-Yellow, BB |
| | | 85 | 13474 | 100PAR/G/85WM6PK | 120 | 6 | CC-6 | 5.31 | | 2000 | | | | | | | 1a, 2a, 2b | Powder Coated-Green, BB |
| 90 Watts | | | | | | | | | | | | | | | | | | |
| A19 | Med | 90 | 61435 | 90A/Y-2PK | 120 | 24 | CC-8 | 4.43 | 3.12 | 1000 | | | | | \$10.84 | 2b | Yellow-Bug Light | |
| 100 Watts | | | | | | | | | | | | | | | | | | |
| A19 | Med | 100 | 97484 | 100A/SPK-2PK | 120 | 24 | CC-8 | 4.43 | 3.12 | 1000 | | 1330 | | | \$12.05 | 2b | Soft Pink | |
| | | 100/89 | 72527 | 100A/RS130-PK12 | 130/120 | 12 | C-7A | 4.13 | 2.91 | 2000/5400 | | 1070/815 | | | \$12.05/ \$10.72 | 2a, 5e | Rough Service | |
| | | 100/89 | 72546 | 100A/RS/STG-TP6 | 130/120 | 6 | C-7A | 4.13 | 2.91 | 2000/5400 | | 1070/815 | | | \$12.05/ \$10.72 | 2a, 2b, 5e, 9l | Rough Service, Saf-T-Gard® | |
| A21 | Med | 100/89 | 17522 | 100A/RS 60PK | 130/120 | 60 | C-7A | 4.13 | 2.91 | 2000/5400 | | 1070/815 | | | \$12.05/ \$10.72 | 2a, 5e | Rough-Service | |
| | | 100 | 18275 | 100A/RS 12PK-5 | 120 | 60 | C-7A | 4.13 | 2.91 | 1000 | 0.9 | 1230 | | | \$12.05 | 2a | Rough-Service | |
| | | 100 | 47261 | 100A/RS/STG/PQ1/6 | 120 | 30 | C-7A | 4.13 | 3.66 | 1000 | 0.9 | 1160 | | | \$12.05 | 2a, 2b, 5e, 9l | Rough Service, Saf-T-Gard® | |

* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information | |
|---------------------------------------|------------|-------------|------------|-------------------|---------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|-------|---------------------------------|-----------------------------|--------------------------------------|--|
| Incandescent Lamps (continued) | | | | | | | | | | | | | | | | | | |
| 100/200/300 Watts | | | | | | | | | | | | | | | | | | |
| PS25 | Mog | 100/200/300 | 41459 | 100/300 6PK | 120 | 30 | CC-6 | 6.68 | 4.43 | 1200 | 1.1 | 1250/2650/3900 | 2800 | | \$12.05/ \$24.10/ \$36.15 | 2b, 9c, 9j | Soft-White, 3-Way | |
| 110 Watts | | | | | | | | | | | | | | | | | | |
| R30 | Med | 110 | 46859 | 110R30/FL/RS/1 | 120 | 30 | C-11 | 5.38 | | 2000 | | 900 | | | \$13.25 | 2a, 2b, 5e, 9k | Reflector Flood. I.F. Rough Service | |
| 120 Watts | | | | | | | | | | | | | | | | | | |
| BR40 | Med | 120 | 21000 | 120R40/PL-1 6PK | 120 | | CC-6 | 6.56 | | 2000 | | | | | \$14.45 | 2a, 2b, 5e, 9k | Reflector Plant Light, BB | |
| | | 120 | 47725 | 120R40FL/STG PQ6 | 130 | 30 | CC-11 | 6.56 | | 2000/5200 | 1.8 | 1025/780 | 2700/2600 | 1200 | \$14.45 | 2a, 2b, 5e, 9a, 9k, 9l, 9m | Reflector, Saf-T-Guard® | |
| PAR38 | Med Sid Pr | 120 | 80313 | 150PAR/3FL/120WM | 120 | 12 | CC-6 | 4.30 | | 2000 | | 1370 | | 3600 | | 1a, 2a, 2b, 9n | Watt-Miser®, Flood, Reduced Wattage | |
| | | 120 | 80322 | 150PAR/3SP/120WM | 120 | 12 | CC-6 | 4.30 | | 2000 | | 1370 | | 9200 | | 1a, 2a, 2b, 9n | Watt-Miser®, Spot, Reduced Wattage | |
| 125 Watts | | | | | | | | | | | | | | | | | | |
| R40 | Med | 125 | 48069 | 125R40/1 6PK | 120 | 30 | C-9 | | | 5000 | 4.6 | | | | | 2a, 2b, 3b, 5e, 6a | Reflector-Warm Up Infrared Heat Lamp | |
| 150 Watts | | | | | | | | | | | | | | | | | | |
| A21 | Med | 150 | 16068 | 150A/CL 12PK | 120 | 12 | CC-8 | 5.37 | 4.06 | 750 | 0.7 | 2710 | 2900 | | \$18.07 | | Clear | |
| | | 150 | 10429 | 150A/W 12PK | 120 | 12 | CC-8 | 5.37 | 4.06 | 750 | 0.7 | 2680 | 2900 | | \$18.07 | | Soft-White | |
| | | 150 | 16703 | 150A/RVL | 120 | 30 | CC-8 | 5.37 | 4.06 | 750 | 0.7 | 2100 | 2950 | | \$18.07 | | Reveal® | |
| | | 150/133 | 72532 | 150A21/RS-PK6 | 130/120 | 30 | C-17 | 5.37 | 4.06 | 1000/2600 | | 2065/1580 | | | \$18.07/ \$16.02 | 2a, 5e | Rough Service | |
| PS25 | Med | 150/133 | 72547 | 150PS25/RS/STG | 130/120 | 60 | C-17 | 6.93 | 5.18 | 1000/2600 | | 2160/1650 | | | \$18.07/ \$16.02 | 2a, 2b, 5e, 9l | Rough Service Saf-T-Guard® | |
| PAR38 | Med Sid Pr | 150 | 80321 | 150PAR/3SP/MINE | 120 | 12 | CC-6 | 4.30 | | 2000 | | 1740 | | 12000 | | 1a, 2a, 2b, 9n | Mine, Spot | |
| | | 150 | 80315 | 150PAR/3FL/MINE | 120 | 12 | CC-6 | 4.30 | | 2000 | | 1740 | 2775 | 3100 | | 1a, 2a, 2b, 9n | Mine, Flood | |
| | | 150 | 80317 | 150PAR/3FL/MINE | 130 | 12 | CC-6 | 4.30 | | 2000 | | 1740 | | 3100 | | 1a, 2a, 2b, 9n | Mine, Flood | |
| PAR38 | Med Skirt | 150 | 19465 | 150PAR/FL/B | 120 | 12 | CC-6 | 5.31 | | 2000 | | | | | | 1a, 2a, 2b | Flood. Dichro Blue | |
| | | 150 | 19467 | 150PAR/FL/G | 120 | 12 | CC-6 | 5.31 | | 2000 | | | | | | 1a, 2a, 2b | Flood. Dichro Green | |
| | | 150 | 19468 | 150PAR/FL/R | 120 | 12 | CC-6 | 5.31 | | 2000 | | | | | | 1a, 2a, 2b | Flood. Dichro Red | |
| | | 150 | 26370 | 150PAR/FL/COVG | 120 | 12 | CC-6 | 5.31 | | 2000 | | 1700 | | | | 1a, 2a, 2b, 9L, 9m | CovRguard® Flood, BB, Coated | |
| | | 150 | 26371 | 150PAR/SP/COVG | 120 | 12 | CC-6 | 5.31 | | 2000 | | 1700 | | | | 1a, 2a, 2b, 9L, 9m | CovRguard® Spot BB, Coated | |
| | | 150 | 48037 | 150PAR/FL/STG PQ6 | 120 | 6 | CC-6 | 5.31 | | 2000 | | 1700 | | | | 2a, 2b, 5e, 9a, 9k, 9l, 9m | Saf-T-Gard® Flood, BB, Coated | |
| PAR46 | 3 Prong | 150 | 35327 | 150PAR46/TS | 115 | 12 | CC-6 | 4 | | 6000 | | 1750 | | | | | Traffic Signal-Burn Horizontal | |
| | | 150 | 19512 | 150PAR46/1 | 32 | 12 | CC-8 | 3.75 | | 800 | | 1950 | | 10000 | | | Mine Locomotive Headlight | |
| | Med Sid Pr | 150 | 19517 | 150PAR46 | 125 | 12 | C-13 | 3.75 | | 1000 | | 1250 | | | | | Mine Locomotive Headlight | |
| | | 150 | 41968 | 150PAR46/3MFL | 125 | 12 | CC-13 | 4 | | 2000 | | 1500 | 2750 | 8000 | | 1a, 2a, 5b, 5c, 9n | Medium Flood | |
| 175 Watts | | | | | | | | | | | | | | | | | | |
| PAR38 | Med Skirt | 175 | 13643 | 175PAR38/HEAT | 120 | 12 | CC-6 | 5.31 | 4.31 | 5000 | | 3100 | | | | 1a, 2a, 2b, 3b | Infrared-Clear | |

* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh

Incandescent Lamps

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information | |
|---------------------------------------|------------|---------|------------|------------------|---------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|--------|--------------------------|-----------------------------|---|--------------|
| Incandescent Lamps (continued) | | | | | | | | | | | | | | | | | | |
| 200 Watts | | | | | | | | | | | | | | | | | | |
| A21 | Med | 200 | 16069 | 200A/CL-1 12PK | 120 | 12 | CC-8 | 5.37 | 4.06 | 750 | 0.7 | 3780 | 2900 | | \$24.09 | | Crystal | |
| | | 200 | 11585 | 200A/W-1 12PK | 120 | 12 | CC-8 | 5.37 | 4.06 | 750 | 0.7 | 3405 | 2900 | | \$24.09 | | Soft-White | |
| | | 200 | 44534 | 200A/W-PK6 | 120.1 | | CC-8 | 5.37 | 4.06 | 750 | 0.7 | 3405 | 2900 | | \$24.09 | | Soft-White | |
| | | 200 | 89371 | 200A/RVL-TP1/6 | 120 | 30 | CC-8 | 5.37 | 4.06 | 750 | 0.7 | 2395 | 2950 | | \$24.09 | | Reveal® Soft-White | |
| | | 200/177 | 25936 | 200A21/99/IF | 130/120 | 60 | CC-8 | 5.37 | 4.06 | 2500/6800 | | 2780/2140 | | | \$24.09/\$21.32 | | I.F.-Extended Service (Ratings @ 120 volts) | |
| PAR46 | Med Sid Pr | 200 | 20115 | 200PAR46/3NSP | 120 | 12 | CC-13 | 4 | | 2000 | | 2270 | 2750 | 31000 | | 1a, 2a, 5b, 5c, 9n | Narrow Reflector | |
| | | 200 | 20138 | 200PAR46/3MFL | 120 | 12 | CC-13 | 4 | | 2000 | | 2270 | 2750 | 11500 | | 1a, 2a, 5b, 5c, 9n | Medium Flood | |
| | | 200 | 20117 | 200PAR46/3NSP | 130 | 12 | CC-13 | 4 | | 2000 | | 2270 | 2750 | 31000 | | 1a, 2a, 5b, 5c, 9n | Narrow Reflector | |
| | | 200 | 20140 | 200PAR46/3MFL | 130 | 12 | CC-13 | 4 | | 2000 | | 2270 | 2750 | 11500 | | 1a, 2a, 5b, 5c, 9n | Medium Flood | |
| PAR56 | Scrw Term | 200 | 20122 | 200PAR | 30 | 12 | CC-8 | 4.50 | | 350 | | | | 230000 | | | Locomotive Headlight | |
| | Mog End Pr | 200 | 49889 | 200PAR56/MFL | 120 | 12 | CC-13 | 5 | | 2000 | | 2270 | 2750 | 15000 | | 1a, 2a, 5b, 5c, 9n | Medium Flood | |
| PS30 | Med | 200/177 | 72548 | 200PS30RS/23/STG | 130/120 | 60 | C-9 | 8.06 | 6.00 | 1000/2600 | | 3000/2280 | | | | | 2a, 2b, 5e, 9l | Saf-T-Guard® |
| 240 Watts | | | | | | | | | | | | | | | | | | |
| PAR56 | Scrw Term | 240 | 20575 | 240PAR56/VNSP | 12 | 12 | C-6 | 4.50 | | 2000 | | | 2800 | 140000 | | 1a, 2a, 5b, 5c, 9n | Very Narrow Reflector | |
| | | 240 | 20576 | 240PAR56/MFL | 12 | 12 | C-6 | 4.50 | | 2000 | | | 2800 | 46000 | | 1a, 2a, 5b, 5c, 9n | Medium Flood | |
| | | 240 | 20577 | 240PAR56/WFL | 12 | 12 | C-6 | 4.50 | | 2000 | | | 2800 | 13000 | | 1a, 2a, 5b, 5c, 9n | Wide Flood | |
| 250 Watts | | | | | | | | | | | | | | | | | | |
| R40 | Med | 250 | 37770 | 250R40/1 6PK | 120 | 30 | C-9 | 6.56 | | 5000 | | 2200 | | | | 2a, 2b, 3b, 5e, 6a | Reflector-Warm Up Infrared Heat Lamp-Clear Face | |
| | | 250 | 37771 | 250R40/10 6PK | 120 | 30 | C-9 | 6.56 | | 5000 | | | | | | 2a, 2b, 3b, 5e, 6a | Reflector-Chill Chaser Infrared Heat Lamp, Red, HRG | |
| R40 | Med Skirt | 250 | 20724 | 250R40/4 | 120 | 24 | C-9 | 7.43 | | 5000 | | | | | | 2a, 2b, 3b, 5e, 6a | Reflector Infrared Industrial-Light I.F., BB | |
| R40 | Med | 250 | 47724 | 250R40/1/STG PQ6 | 120 | 30 | C-9 | 6.56 | | 5000 | | | | | | 2a, 2b, 5e, 9a, 9k, 9l, 9m | Heat Lamp Saf-T-Gard® - Shatter-Resistant | |
| | | 250 | 23423 | 21A/R40/FL | 12 | 24 | C-2V | 6.68 | | 1000 | | 2850 | | 1600 | | 2b, 5a, 5e | Reflector Flood | |
| 300 Watts | | | | | | | | | | | | | | | | | | |
| PS25 | Med | 300/266 | 73788 | 300M/130V-PK6 | 130/120 | 6 | CC-8 | 6.93 | 4.92 | 750/1950 | | 6120/4650 | | | | | | Clear |
| | | 300/266 | 73790 | 300M/IF/130V-PK3 | 130/120 | 3 | CC-8 | 6.93 | 4.92 | 750/1950 | | 6120/4650 | | | | | | Inside Frost |
| PS35 | Mog Screw | 300 | 21025 | 300 | 130 | 24 | C-9 | 9.37 | 7.00 | 1000 | | 5820 | | | | | Clear | |
| | | 300 | 21079 | 300/IF | 130 | 24 | C-9 | 9.37 | 7.00 | 1000 | | 5820 | | | | | Inside Frost | |
| R40 | Med | 300 | 21197 | 300R/SP | 120 | 24 | CC-2V | 6.56 | | 2000 | | 3700 | | 9000 | | 2a, 2b, 5b, 9e | Reflector-Light I.F. HORIZ | |
| | | 300 | 21213 | 300R/FL | 120 | 24 | CC-2V | 6.56 | | 2000 | | 3700 | | 2500 | | 2a, 2b, 5b, 9e | Reflector-Flood I.F. HORIZ | |
| | | 300 | 21229 | 300R/FL/1 | 120 | 24 | CC-2V | 6.75 | | 2000 | | 3000 | | 4400 | | 2a, 2b, 5b, 9e | Reflector-Flood-I.F. BB, HRG | |
| | | 300/266 | 21215 | 300R/FL | 130/120 | 24 | CC-2V | 6.56 | | 2000/5400 | | 3465/2670 | | 2500 | | 2a, 2b, 5b, 9e | Reflector Flood-I.F. HORIZ (Ratings @ 120 volts) | |

* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|---------------------------------------|-------------|--------------|------------|----------------|-------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|--------------------|--------------------------|-----------------------------|---|
| Incandescent Lamps (continued) | | | | | | | | | | | | | | | | | |
| 300 Watts (continued) | | | | | | | | | | | | | | | | | |
| R40 | Mog Screw | 300 | 21254 | 300R/3FL | 120 | 24 | CC-2V | 7.25 | | 2000 | | 3000 | | | | 2a, 2b, 5b, 9e | Reflector Flood-I.F.1BB |
| PAR56 | Scrw Term | 300 | 23427 | 300PAR56/WFL | 12 | 12 | C-6 | 4.50 | | 1000 | | 6000 | | | | 2b, 9f, 9n | PAR-Wide Flood. Swimming |
| | Mog End Pr | 300 | 20803 | 300PAR56/NSP | 120 | 12 | CC-13 | 5 | | 2000 | | 3840 | 2750 | 68000 | | 1a, 2a, 5b, 5c, 9n | Narrow Reflector |
| | | 300 | 20836 | 300PAR56/MFL | 120 | 12 | CC-13 | 5 | | 2000 | | 3840 | 2750 | 24000 | | 1a, 2a, 5b, 5c, 9n | Medium Flood |
| | | 300 | 20849 | 300PAR56/WFL | 120 | 12 | CC-13 | 5 | | 2000 | | 3840 | 2750 | 11000 | | 1a, 2a, 5b, 5c, 9n | Wide Flood |
| | | 300 | 20838 | 300PAR56/MFL | 130 | 12 | CC-13 | 5 | | 2000 | | 3840 | 2750 | 24000 | | 1a, 2a, 5b, 5c, 9n | Medium Flood |
| 300 | 20851 | 300PAR56/WFL | 130 | 12 | CC-13 | 5 | | 2000 | | 3840 | 2750 | 11000 | | 1a, 2a, 5b, 5c, 9n | Wide Flood | | |
| 350 Watts | | | | | | | | | | | | | | | | | |
| PAR56 | Scrw Term | 350 | 19866 | 350PAR56/SP | 75 | 12 | CC-8 | 4.50 | | 500 | | 6200 | | | | 1a, 2a, 5b, 5c, 9n | Ditch Light-Locomotive |
| 375 Watts | | | | | | | | | | | | | | | | | |
| R40 | Med Skirt | 375 | 21331 | 375R40 | 115 | 24 | C-9 | 7.37 | | 5000 | | | | | | 2a, 2b, 3b, 5e, 6a | Reflector Infrared Industrial-Light I.F., BB |
| | | 375 | 21334 | 375R40/1 | 115 | 24 | C-9 | 7.50 | | 5000 | | 2700 | | 1170 | | 2a, 2b, 3b, 5e, 6a | Reflector Infrared Industrial-Clear Face, HRG, BB |
| 400 Watts | | | | | | | | | | | | | | | | | |
| R40 | Med | 400 | 17542 | 400R40/FL | 120 | 24 | CC-2V | 6.75 | | 2000 | | 4400 | | | | 5b, 5c, 9b | Reflector Flood. Swimming Pool, BB, HRG |
| 500 Watts | | | | | | | | | | | | | | | | | |
| PS35 | Mog Screw | 500 | 21532 | 500 | 130 | 24 | CC-8 | 9.37 | 7.00 | 1000 | | 10850 | | | | 5d, 5e | Clear, BB |
| R40 | Mog Screw | 500 | 21734 | 500R/3FL | 120 | 24 | CC-2V | 7.25 | | 2000 | | 6000 | | 8000 | | 2a, 2b, 5b, 9e | Reflector Flood-I.F. BB, HRG |
| | | 500 | 21736 | 500R/3FL | 130 | 24 | CC-2V | 7.25 | | 2000 | | 6000 | | 8000 | | 2a, 2b, 5b, 9e | Reflector Flood-I.F., BB, HRG |
| R40 | Med | 500 | 48316 | 500R40/5FL/SLV | 120 | 24 | CC-2V | 6.75 | | 2000 | | 5500 | | 3200 | | 9k | Reflector-Swimming Pool. BB, HRG |
| PAR64 | Mog End Pr | 500 | 39411 | 500PAR64/MFL | 230 | 12 | CC-13 | 6 | | 2000 | | 5500 | 2700 | | | 1a, 2a, 5b, 5c, 9n | Medium Flood |
| | | 500 | 39414 | 500PAR64/WFL | 230 | 12 | CC-13 | 6 | | 2000 | | 5500 | 2700 | | | 1a, 2a, 5b, 5c, 9n | Wide Flood |
| | ExMog EndPr | 500 | 39406 | 500PAR64/NSP | 120 | 12 | CC-13 | 6 | | 2000 | | 6500 | 2800 | 110000 | | 1a, 2a, 5b, 5c, 9n | Narrow Reflector |
| | | 500 | 39409 | 500PAR64/MFL | 120 | 12 | CC-13 | 6 | | 2000 | | 6500 | 2800 | 37000 | | 1a, 2a, 5b, 5c, 9n | Medium Flood |
| | | 500 | 39412 | 500PAR64/WFL | 120 | 12 | CC-13 | 6 | | 2000 | | 6500 | 2800 | 13000 | | 1a, 2a, 5b, 5c, 9n | Wide Flood |
| 1000 Watts | | | | | | | | | | | | | | | | | |
| PS52 | Mog Screw | 1000 | 22260 | 1000 | 130 | 12 | CC-8 | 13 | 9.50 | 1000 | | 23740 | | | | 5d, 5e | Clear, BB |
| Export Only | | | | | | | | | | | | | | | | | |
| 40 Watts | | | | | | | | | | | | | | | | | |
| A19 | Med | 40 | 13255 | 40A 48PK | 120 | 48 | CC-6 | 4.331 | 3.15 | 1000 | 0.8 | 505 | 2700 | | | | Standard |
| | | 40 | 13257 | 40A/W 48PK | 120 | 48 | CC-6 | 4.331 | 3.15 | 1000 | 0.8 | 490 | 2700 | | | | Standard |
| | | 40 | 48687 | 40A/RVL 48PK | 120 | 48 | CC-6 | 4.409 | 3.15 | 1000 | 0.8 | 360 | 2725 | | | | Reveal® Soft-White |
| | | 40 | 97470 | 40A/CL-2PK | 120 | 24 | CC-6 | 4.331 | 3.15 | 1500 | 0.8 | 480 | 2700 | | | | Clear |

* Based on 3 hours per day use.
 ** Based on 3 hours per day use, \$0.11 per Kwh

Incandescent Lamps

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|--------------------------------|-----------|--------------|------------|------------------|-------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|-------|--------------------------|-----------------------------|-------------------------------------|
| Export Only (continued) | | | | | | | | | | | | | | | | | |
| 60 Watts | | | | | | | | | | | | | | | | | |
| A19 | Med | 60 | 41026 | 60A 48PK | 120 | 48 | CC-6 | 4.311 | 2.897 | 1000 | 0.8 | 865 | 2800 | | | | Standard |
| | | 60 | 41028 | 60A/W 48PK | 120 | 48 | CC-6 | 4.331 | 3.15 | 1000 | 0.8 | 840 | 2800 | | | | Standard |
| | | 60 | 97490 | 60A/CL-2PK | 120 | 24 | CC-8 | 4.331 | 3.15 | 1000 | 0.8 | 870 | 2800 | | | | Clear |
| | | 60 | 97496 | 60A/W/LL-2PK | 120 | 24 | CC-6 | 4.331 | 3.15 | 1000 | 0.8 | 820 | 2800 | | | | Soft-White, Long Life |
| 75 Watts | | | | | | | | | | | | | | | | | |
| A19 | Med | 75 | 41030 | 75A 48PK | 120 | 48 | CC-6 | 4.43 | 3.12 | 750 | 0.7 | 1170 | 2800 | | \$9.03 | | Standard |
| | | 75 | 97779 | 75A-2/24PK | 120 | 48 | CC-6 | 4.43 | 3.12 | 750 | 0.7 | 1170 | 2800 | | \$9.03 | | Standard |
| | | 75 | 97468 | 75A/CL-2PK | 120 | 24 | CC-6 | 4.43 | 3.12 | 750 | 0.7 | 1170 | 2750 | | \$9.03 | | Clear |
| | | 75 | 48689 | 75A/RVL 48PK | 120 | 48 | CC-8 | 4.43 | 3.12 | 750 | 0.7 | 830 | 2850 | | \$9.03 | | Reveal® Soft-White |
| | | 75 | 41032 | 75A/W 48PK | 120 | 48 | CC-6 | 4.43 | 3.12 | 750 | 0.7 | 1170 | 2800 | | \$9.03 | | Soft-White |
| 75 | 97497 | 75A/W/LL-2PK | 120 | 24 | CC-6 | 4.43 | 3.12 | 1125 | 1.0 | 1125 | 2800 | | \$9.03 | | Soft-White, Long Life | | |
| PAR38 | Med Skirt | 75 | 14510 | 75PAR/FL/EX-120 | 120 | 12 | CC-6 | 5.31 | | 2000 | | 765 | 2700 | 1750 | | 1a, 2a, 2b | Flood |
| 85 Watts | | | | | | | | | | | | | | | | | |
| PAR38 | Med Skirt | 85 | 14509 | 100PAR/FL85WM/EX | 120 | 6 | CC-6 | 5.31 | | 2000 | | 930 | 2700 | 2000 | | 1a, 2a, 2b | Watt-Miser®, Flood, Reduced Wattage |
| 100 Watts | | | | | | | | | | | | | | | | | |
| A19 | Med | 100 | 41034 | 100A 48PK | 120 | 48 | CC-8 | 4.43 | 3.12 | 750 | 0.7 | 1710 | 2800 | | \$12.05 | | Standard |
| | | 100 | 97780 | 100A-2/24PK | 120 | 24 | CC-8 | 4.43 | 3.12 | 750 | 0.7 | 1710 | 2800 | | \$12.05 | | Standard |
| | | 100 | 97489 | 100A/CL-2PK | 120 | 24 | CC-8 | 4.43 | 3.12 | 750 | 0.7 | 1730 | 2800 | | \$12.05 | | Clear |
| | | 100 | 48690 | 100A/RVL 48PK | 120 | 48 | CC-8 | 4.43 | 3.12 | 750 | 0.7 | 1260 | 2850 | | \$12.05 | | Reveal® |
| | | 100 | 41036 | 100A/W 48PK | 120 | 48 | CC-8 | 4.43 | 3.12 | 750 | 0.7 | 1690 | 2800 | | \$12.05 | | Soft White |
| | | 100 | 97761 | 100A/W/LL-2PK | 120 | 24 | CC-8 | 4.43 | 3.12 | 1125 | 1.0 | 1600 | 2800 | | \$12.05 | | Long Life Soft White |
| 120 Watts | | | | | | | | | | | | | | | | | |
| PAR38 | Med Skirt | 120 | 14501 | 150PAR/FL/120WM/ | 120 | 12 | CC-6 | 5.31 | | 2000 | | 1370 | 2725 | 3600 | | 1a, 2a, 2b | Watt-Miser®, Flood, Reduced Wattage |
| | | 120 | 14502 | 150PAR/SP/120WM/ | 120 | 12 | CC-6 | 5.31 | | 2000 | | 1370 | 2725 | 9200 | | 1a, 2a, 2b | Watt-Miser®, Spot, Reduced Wattage |
| 150 Watts | | | | | | | | | | | | | | | | | |
| PAR38 | Med Skirt | 150 | 14531 | 150PAR/FL/EX-120 | 120 | 12 | CC-6 | 5.31 | | 2000 | | 1740 | 2775 | 3100 | | 1a, 2a, 2b | Flood |
| | | 150 | 14535 | 150PAR/SP/EX-120 | 120 | 12 | CC-6 | 5.31 | | 2000 | | 1740 | 2775 | 12000 | | 1a, 2a, 2b | Spot |
| Airport | | | | | | | | | | | | | | | | | |
| 30 Watts | | | | | | | | | | | | | | | | | |
| T10 | Med PF | 30 | 23294 | 6.6A/T10/1P | 4.5 | 60 | C-2V | 3.90 | 1.50 | 1000 | | 400 | | | | | Clear |
| | | 45 | 23295 | 6.6A/T10P | 6.8 | 60 | C-2V | 3.60 | 1.50 | 1000 | | 675 | | | | | Clear |
| 40 Watts | | | | | | | | | | | | | | | | | |
| T10 | Med PF | 40 | 15921 | 40T10P | 120 | 60 | CC-2V | 3.90 | 1.50 | 1000 | | 400 | | | | | Clear |
| 200 Watts | | | | | | | | | | | | | | | | | |
| T14 | Med PF | 200 | 23298 | 6.6A/T14P | | 24 | C-13 | 5.75 | 2.18 | | | 4900 | | | | | Clear |
| 620 Watts | | | | | | | | | | | | | | | | | |
| PS40 | Mogul PF | 620 | 21950 | 620PS40P | 120 | 24 | C-9 | 10.06 | 5.68 | 3000 | | 11200 | | | | | Clear |
| | | 620 | 21952 | 620PS40P | 130 | 24 | C-9 | 10.06 | 5.68 | 3000 | | 11200 | | | | | Clear |
| Landscape Lighting | | | | | | | | | | | | | | | | | |
| 4 Watts | | | | | | | | | | | | | | | | | |
| T5 | Wedge | 4 | 71479 | 901/LAND/BP2 | 12 | 48 | C-2R | 1.49 | 0.08 | 500 | | 36 | | | | | |
| 7 Watts | | | | | | | | | | | | | | | | | |
| T5 | Wedge | 7 | 71480 | 918/LAND/BP2 | 12 | 48 | C-2R | 1.49 | 0.08 | 500 | | 82 | | | | | |
| 11 Watts | | | | | | | | | | | | | | | | | |
| T5 | Wedge | 11 | 71481 | 923/LAND/BP2 | 12 | 48 | C-2R | 1.49 | 0.08 | 500 | | 157 | | | | | |
| Decorative | | | | | | | | | | | | | | | | | |
| 3 Watts | | | | | | | | | | | | | | | | | |
| CA10 | Cand | 3 | 73254 | 3CAC/FF/CD1-6PK | 120 | 6 | | 4.13 | | 2000 | | | | | | | Flicker Flame |

* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per kWh

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information | |
|-------------------------------|------|-------|------------|-------------------|-------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|------|--------------------------|-----------------------------|---|--|
| Decorative (continued) | | | | | | | | | | | | | | | | | | |
| 15 Watts | | | | | | | | | | | | | | | | | | |
| B8 | Cand | 15 | 75257 | 15BC/8/CF2/PK5-MP | 120 | 5 | C-7A | 3.87 | | 1500 | 1.4 | 105 | 2500 | | \$1.81 | | Blunt Tip, Ceiling Fan, Vibration Resistant, Multipurpose Deco | |
| B10 | Cand | 15 | 74033 | 15BC/RVL/CF-T4/6 | 120 | 6 | C7-A | 3.87 | | 1500 | 1.4 | 80 | 2550 | | \$1.81 | | Reveal®, Blunt Tip, Ceiling Fan, Vibration Resistant | |
| | | 15 | 74974 | 15BC10/CF/CD2-MPD | 120 | 5 | C7-A | 3.87 | | 1500 | 1.4 | 95 | 2500 | | \$1.81 | | Blunt Tip, Ceiling Fan, Vibration Resistant, Multipurpose Deco | |
| CA8 | Cand | 15 | 48396 | 15CAC CD2 6PK | 120 | 30 | C-7A | 4.12 | | 1500 | 1.4 | 115 | 2500 | | \$1.81 | | Bent Tip | |
| F10 | Cand | 15 | 48395 | 15FC CD2 6PK | 120 | 30 | C-7A | 4.37 | | 1500 | 1.4 | 105 | 2500 | | \$1.81 | | Clear-Chandelier | |
| | | 15 | 75256 | 15FC/AU/CF2/5-MP | 120 | 5 | C-7A | 4.37 | | 1500 | 1.4 | 105 | 2300 | | \$1.81 | | Auradescent, Flame Tip, Ceiling Fan, Vibration Resistant, Multipurpose Deco | |
| | | 15 | 48394 | 15FC/AU CD2 6PK | 120 | 30 | C-7A | 4.37 | | 1500 | 1.4 | 105 | 2300 | | \$1.81 | | Auradescent, Flame Tip | |
| 25 Watts | | | | | | | | | | | | | | | | | | |
| B8 | Cand | 25 | 75258 | 25BC8/CF2/PK5-MP | 120 | 5 | C-7A | 3.87 | | 1500 | 1.4 | 160 | 2500 | | \$3.01 | | Blunt Tip, Ceiling Fan, Vibration Resistant, Multipurpose Deco | |
| B10 | Cand | 25 | 74979 | 25BC10RVL/CF2-MP | 120 | 5 | C-7A | 3.87 | | 1500 | 1.4 | 135 | 2550 | | \$3.01 | | Reveal®, Blunt Tip, Ceiling Fan, Vibration Resistant, Multipurpose Deco | |
| | | 25 | 74978 | 25BC10/CF/CD2-MP | 120 | 5 | C-7A | 3.87 | | 1500 | 1.4 | 155 | 2500 | | \$3.01 | | Blunt Tip, Ceiling Fan, Vibration Resistant, Multipurpose Deco | |
| | | 25 | 15787 | 25BC 25PK | 120 | 200 | C-7A | 3.75 | | 1500 | 1.4 | 220 | 2500 | | \$3.01 | | Clear, Blunt Tip | |
| | | 25 | 48700 | 25BC/RVL CD2 | 120 | 30 | C-7A | 3.75 | | 1500 | 1.4 | 150 | 2550 | | \$3.01 | | Reveal®, Blunt Tip | |
| | Med | 25 | 22756 | 25BM CD2 | 120 | 60 | C-7A | 4.62 | | 1500 | 1.4 | 170 | 2500 | | \$3.01 | | Clear, Blunt Tip | |
| B13 | Med | 25 | 75322 | 25BM/C33/CF2-TP5 | 120 | 5 | C-9 | 4.62 | | 1500 | 1.4 | 135 | 2500 | | \$3.01 | | Clear Ceiling Fan, Chandelier, Multipurpose Deco | |
| CA10 | Cand | 25 | 15777 | 25CAC 25PK | 120 | 200 | CC-2V | 4.12 | | 1500 | 1.4 | 220 | 2500 | | \$3.01 | | Clear, Bent Tip | |
| | | 25 | 76234 | 25CAC/CL/CD4-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 220 | 2500 | | \$3.01 | | Clear, Bent Tip | |
| | | 25 | 66104 | 25CAC/CL/CD2-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 220 | 2500 | | \$3.01 | | Clear, Bent Tip | |
| | | 25 | 76235 | 25CAC/F/CD4-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 155 | 2500 | | \$3.01 | | White, Bent Tip | |
| | | 25 | 66105 | 25CAC/F/CD2-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 215 | 2500 | | \$3.01 | | White, Bent Tip | |
| | | 25 | 40045 | 25CAC/L | 120 | 120 | CC-2V | 4.12 | | 4000 | 3.7 | 210 | 2500 | | \$3.01 | | Clear, Bent Tip, Brass Base, LL | |
| | | 25 | 16365 | 25CAC/L/BB-CD4 | 120 | 24 | CC-2V | 4.12 | | 3000 | 2.7 | 210 | 2500 | | \$3.01 | | Clear, Bent Tip | |
| F15 | Med | 25 | 75337 | 25FM/C/CF2-TP4 | 120 | 4 | C-9 | 4.37 | | 1500 | 1.4 | 170 | 2400 | | \$3.01 | | Clear, Flame Ceiling Fan | |
| | | 25 | 75339 | 25FM/A/CF2-TP4 | 120 | 4 | C-9 | 4.37 | | 1500 | 1.4 | 120 | 2400 | | \$3.01 | | Ceiling Fan | |
| | | 25 | 75340 | 25FM/AU/CF2-TP4 | 120 | 4 | C-9 | 4.37 | | 1500 | 1.4 | 170 | 2400 | | \$3.01 | | Auradescent Ceiling Fan | |
| | | 25 | 75338 | 25FM/W/CF2-TP4 | 120 | 4 | C-9 | 4.37 | | 1500 | 1.4 | 140 | 2400 | | \$3.01 | | White, Ceiling Fan | |
| G16.5 | Cand | 25 | 11303 | 25GC 12PK | 120 | 120 | CC-2V | 3.00 | | 1500 | 1.4 | 220 | 2500 | | \$3.01 | 5e, 9d | Clear, Globe, BDTH | |
| | | 25 | 17722 | 25GC CD2 | 120 | 60 | CC-2V | 3.00 | | 1500 | 1.4 | 195 | 2500 | | \$3.01 | 5e, 9d | Clear, Globe, BDTH | |
| | | 25 | 48703 | 25GC/RVL CD2 | 120 | 30 | CC-2V | 3.00 | | 1500 | 1.4 | 145 | 2525 | | \$3.01 | 5e, 9d | Reveal®, Globe, BDTH | |
| | | 25 | 72800 | 25GC/CL/CD2-4PK | 120 | 4 | CC-2V | 3.00 | | 1500 | 1.4 | 195 | 2500 | | \$3.01 | 5e, 9d | Clear, Globe, BDTH | |
| | | 25 | 72801 | 25GC/AU/CD2 4PK | 120 | 4 | CC-2V | 3.00 | | 1500 | 1.4 | 220 | 2500 | | \$3.01 | 5e, 9d | Auradescent Globe, BDTH | |
| | | 25 | 44412 | 25GC/W PQ2/6 | 120 | 30 | CC-2V | 3.00 | | 1500 | 1.4 | 180 | 2500 | | \$3.01 | 5e, 9d | White, Globe, BDTH | |
| | | 25 | 39679 | 25GC/W 12PK | 120 | 120 | CC-2V | 3.00 | | 1500 | 1.4 | 180 | 2500 | | \$3.01 | 5e, 9d | White, Globe, BDTH | |
| | | 25 | 15790 | 25GC 25PK | 120 | 100 | CC-2V | 3.00 | | 1500 | 1.4 | 195 | 2500 | | \$3.01 | 5e, 9d | Clear, Globe, BDTH | |
| G16.5 | Med | 25 | 31106 | 25GM/CL-PQ2/6 | 120 | 30 | CC-2V | 3.00 | | 1500 | 1.4 | 160 | 2500 | | \$3.01 | 5e, 9d | Clear, Globe, BDTH | |
| | | 25 | 31107 | 25GM/W-PQ2/6 | 120 | 30 | CC-2V | 3.00 | | 1500 | 1.4 | 180 | 2500 | | \$3.01 | 5e, 9d | Clear, Globe, BDTH | |
| G25 | Med | 25 | 12982 | 25G25/W 6PK | 120 | 6 | CC-6 | 4.50 | | 1500 | 1.4 | 180 | 2500 | | \$3.01 | 5e, 9d | Clear, Globe, BDTH | |
| | | 25 | 12983 | 25G25 6PK | 120 | 6 | CC-6 | 4.50 | | 1500 | 1.4 | 190 | 2500 | | \$3.01 | 5e, 9d | Clear, Globe, BDTH | |
| | | 25 | 25546 | 25G25/W CPK | 120 | 24 | CC-6 | 4.50 | | 1500 | 1.4 | 180 | 2500 | | \$3.01 | 5e, 9d | White, Globe, BDTH | |
| | | 25 | 25545 | 25G25 CPK | 120 | 24 | CC-6 | 4.50 | | 1500 | 1.4 | 190 | 2500 | | \$3.01 | 5e, 9d | Clear, Globe, BDTH | |

* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh

Incandescent Lamps

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information | |
|-------------------------------|------|-------|------------|-------------------|-------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|------|--------------------------|-----------------------------|---|--|
| Decorative (continued) | | | | | | | | | | | | | | | | | | |
| 40 Watts | | | | | | | | | | | | | | | | | | |
| B8 | Cand | 40 | 75259 | 40BC8/CF2/PK5-MP | 120 | 5 | C-7A | 3.87 | | 1500 | 1.4 | 300 | 2500 | | \$4.82 | | Clear, Blunt Tip, Ceiling Fan, Multipurpose Deco | |
| B10 | Cand | 40 | 74035 | 40BC/RVL/CF-T4/6 | 120 | 6 | C-7A | 3.87 | | 1500 | 1.4 | 230 | 2550 | | \$4.82 | | Reveal®, Clear, Blunt Tip, Ceiling Fan | |
| | | 40 | 75034 | 40BC10RVL/CF2-MP5 | 120 | 5 | C-7A | 3.87 | | 1500 | 1.4 | 230 | 2550 | | \$4.82 | | Reveal®, Clear, Blunt Tip, Ceiling Fan, Multipurpose Deco | |
| | | 40 | 75033 | 40BC10/CF/CD2-MP | 120 | 5 | C-7A | 3.87 | | 1500 | 1.4 | 280 | 2500 | | \$4.82 | | Clear, Blunt Tip, Multipurpose Deco | |
| | | 40 | 15788 | 40BC 25PK | 120 | 200 | CC-2V | 3.75 | | 1500 | 1.4 | 370 | 2500 | | \$4.82 | | Clear, Blunt Tip | |
| | | 40 | 48701 | 40BC/RVL CD2 | 120 | 30 | CC-2V | 3.75 | | 1500 | 1.4 | 230 | 2550 | | \$4.82 | | Reveal® Clear, Blunt Tip | |
| B10 | Med | 40 | 12993 | 40BM CD2 | 120 | 60 | C-9 | 3.75 | | 1500 | 1.4 | 380 | 2500 | | \$4.82 | | Clear, Blunt Tip | |
| | | 40 | 48699 | 40BM/RVL CD2 | 120 | 30 | C-9 | 3.75 | | 1500 | 1.4 | 285 | 2550 | | \$4.82 | | Reveal®, Blunt Tip | |
| B13 | Med | 40 | 75317 | 40BFM/CF2/PK4-MP | 120 | 4 | C-9 | 4.62 | | 1500 | 1.4 | 350 | 2500 | | \$4.82 | | Facet, Ceiling Fan | |
| | | 40 | 72780 | 40BM/RVL/CD2-4PK | 120 | 4 | C-9 | 4.62 | | 1500 | 1.4 | 285 | 2550 | | \$4.82 | | Clear, Bent Tip | |
| CA10 | Med | 40 | 75335 | 40CAM/CF6/PK5-MP | 120 | 5 | CC-2V | 4.56 | | 1500 | 1.4 | 350 | 2500 | | \$4.82 | | Clear, Bent Tip, Multipurpose Deco | |
| | | 40 | 76230 | 40CAM/CL/CD4-MPD | 120 | 4 | CC-2V | 4.56 | | 1500 | 1.4 | 330 | 2500 | | \$4.82 | | Clear, Bent Tip | |
| | | 40 | 66109 | 40CAM/CL/CD2-MPD | 120 | 4 | CC-2V | 4.56 | | 1500 | 1.4 | 330 | 2500 | | \$4.82 | | Clear, Bent Tip | |
| | | 40 | 48342 | 40CAM/L/BB CD4 | 120 | 30 | CC-2V | 4.56 | | 3000 | 2.7 | 360 | 2500 | | \$4.82 | | Post Light | |
| | | 40 | 22813 | 40CAM/L/BB CD2 | 120 | 30 | CC-2V | 4.56 | | 3000 | 2.7 | 360 | 2500 | | \$4.82 | | Clear, Bent Tip, Long Life, Brass Base | |
| CA10 | Cand | 40 | 15778 | 40CAC 25PK | 120 | 200 | CC-2V | 4.12 | | 1500 | 1.4 | 370 | 2500 | | \$4.82 | | Clear, Bent Tip | |
| | | 40 | 76236 | 40CAC/CL/CD2-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 370 | 2500 | | \$4.82 | | Clear, Bent Tip | |
| | | 40 | 76237 | 40CAC/CL/CD4-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 370 | 2500 | | \$4.82 | | Clear, Bent Tip | |
| | | 40 | 76238 | 40CAC/F/CD4-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 360 | 2500 | | \$4.82 | | White, Bent Tip | |
| | | 40 | 66106 | 40CAC/F/CD2-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 360 | 2500 | | \$4.82 | | White, Bent Tip | |
| | | 40 | 48341 | 40CAC/L/BB-CD4 | 120 | 30 | CC-2V | 4.12 | | 3000 | 1.4 | 360 | 2500 | | \$4.82 | | Clear, Bent Tip, Brass Base, Long Life | |
| F15 | Med | 40 | 75341 | 40FM/C/CF2-TP4 | 120 | 4 | C-6 | 4.37 | | 1500 | 1.4 | 350 | 2500 | | \$4.82 | | Clear, Flame, Ceiling Fan, Vibration Resistant | |
| | | 40 | 75343 | 40FM/AU/CF2-TP4 | 120 | 4 | C-6 | 4.37 | | 1500 | 1.4 | 350 | 2500 | | \$4.82 | | Auradescent, Flame, Ceiling Fan, Vibration Resistant | |
| | | 40 | 75342 | 40FM/W/CF2-TP4 | 120 | 4 | C-6 | 4.37 | | 1500 | 1.4 | 315 | 2500 | | \$4.82 | | White, Flame, Ceiling Fan, Vibration Resistant | |
| | | 40 | 75344 | 40FM/A/CF2-TP4 | 120 | 4 | C-6 | 4.37 | | 1500 | 1.4 | 140 | 2500 | | \$4.82 | | Amber, Ceiling Fan, Vibration Resistant | |
| G16.5 | Cand | 40 | 14958 | 40GC 12PK | 120 | 120 | CC-2V | 3.00 | | 1500 | 1.4 | 320 | 2500 | | \$4.82 | 5e, 9d | Clear, Globe, BDTH | |
| | | 40 | 17730 | 40GC CD2 | 120 | 60 | CC-2V | 3.00 | | 1500 | 1.4 | 320 | 2500 | | \$4.82 | 5e, 9d | Clear, Globe, BDTH | |
| | | 40 | 44414 | 40GC/W PQ2/6 | 120 | 30 | CC-2V | 3.00 | | 1500 | 1.4 | 290 | 2500 | | \$4.82 | 5e, 9d | White, Globe, BDTH | |
| | | 40 | 72802 | 40GC/CL/CD2-4PK | 120 | 4 | CC-2V | 3.00 | | 1500 | 1.4 | 320 | 2500 | | \$4.82 | 5e, 9d | Clear, Globe, BDTH | |
| | | 40 | 72803 | 40GC/AU/CD2-4PK | 120 | 4 | CC-2V | 3.00 | | 1500 | 1.4 | 370 | 2500 | | \$4.82 | 5e, 9d | Auradescent, Globe, BDTH | |
| | | 40 | 48704 | 40GC/RVL CD2 | 120 | 30 | CC-2V | 3.00 | | 1500 | 1.4 | 240 | 2550 | | \$4.82 | 5e, 9d | Reveal®, Globe, BDTH | |
| | | 40 | 72209 | 40GC/W/CD2-4PK | 120 | 4 | CC-2V | 3.00 | | 1500 | 1.4 | 290 | 2500 | | \$4.82 | 5e, 9d | White, Globe, BDTH | |
| | | 40 | 48705 | 40GC/W/RVL CD2 | 120 | 30 | CC-2V | 3.00 | | 1500 | 1.4 | 220 | 2550 | | \$4.82 | 5e, 9d | Reveal® White, Globe, BDTH | |
| G16.5 | Med | 40 | 31109 | 40GM/CL-PQ2/6 | 120 | 30 | CC-2V | 3.00 | | 1500 | 1.4 | 310 | 2500 | | \$4.82 | 5e, 9d | Clear, Globe, BDTH | |
| | | 40 | 31110 | 40GM/W-PQ2/6 | 120 | 30 | CC-2V | 3.00 | | 1500 | 1.4 | 330 | 2500 | | \$4.82 | 5e, 9d | White, Globe, BDTH | |
| G25 | Med | 40 | 12979 | 40G25/W 6PK | 120 | 6 | CC-6 | 4.50 | | 1500 | 1.4 | 370 | 2500 | | \$4.82 | 5e, 9d | White, Globe, BDTH | |
| | | 40 | 12980 | 40G25 6PK | 120 | 6 | CC-6 | 4.50 | | 1500 | 1.4 | 410 | 2500 | | \$4.82 | 5e, 9d | Clear, Globe, BDTH | |
| | | 40 | 48694 | 40G25C/RVL PQ1/6 | 120 | 6 | CC-6 | 4.50 | | 1500 | 1.4 | 265 | 2550 | | \$4.82 | | Reveal® | |
| | | 40 | 48695 | 40G25W/RVL PQ1/6 | 120 | 6 | CC-6 | 4.50 | | 1500 | 1.4 | 250 | 2550 | | \$4.82 | | Reveal® | |
| | | 40 | 25547 | 40G25/W CPK | 120 | 24 | CC-6 | 4.50 | | 1500 | 1.4 | 370 | 2500 | | \$4.82 | 5e, 9d | White, Globe, BDTH | |
| | | 40 | 25548 | 40G25 CPK | 120 | 24 | CC-6 | 4.50 | | 1500 | 1.4 | 410 | 2500 | | \$4.82 | 5e, 9d | Clear, Globe, BDTH | |
| G40 | Med | 40 | 36191 | 40G40/W 6PK | 120 | 6 | CC-6 | 6.93 | | 2500 | 2.3 | 395 | 2500 | | \$4.82 | 5e, 9d | White, Globe, BDTH | |

* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Lumens Initial | Color Temp K | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|-----------------------------------|------|-------|------------|------------------|-------|----------|-----------------|----------|----------|------------------|-------------------|----------------|--------------|------|--------------------------|-----------------------------|--|
| Decorative (continued) | | | | | | | | | | | | | | | | | |
| 60 Watts | | | | | | | | | | | | | | | | | |
| B10 | Cand | 60 | 76229 | 60BC10/CF/CD2-MP | 120 | 4 | C-7A | 3.87 | | 1500 | 1.4 | 540 | 2500 | | \$7.23 | | Clear, Blunt Tip, MultiPurpose Deco |
| | | 60 | 48714 | 60BC/RVL CD2 | 120 | 30 | C-7A | 3.87 | | 1500 | 1.4 | 490 | 2550 | | \$7.23 | | Reveal® |
| | | 60 | 74036 | 60BC/RVL/CF-T4/6 | 120 | 6 | C-7A | 3.75 | | 1500 | 1.4 | 455 | 2550 | | \$7.23 | | Reveal® Clear, Ceiling Fan, Blunt Tip |
| | | 60 | 75201 | 60BC10RVL/CF2-MP | 120 | 6 | C-7A | 3.75 | | 1500 | 1.4 | 455 | 2550 | | \$7.23 | | Reveal® Clear, Ceiling Fan, Blunt Tip |
| B13 | Med | 60 | 48713 | 60BM/RVL CD2 | 120 | 30 | C-9 | 4.62 | | 1500 | 1.4 | 485 | 2650 | | \$7.23 | 2c, 9i | Reveal®, Blunt Tip |
| | | 60 | 72781 | 60BM/RVL/CD2-4PK | 120 | 4 | C-9 | 4.62 | | 1500 | 1.4 | 485 | 2650 | | \$7.23 | 2c, 9i | Reveal®, Blunt Tip |
| CA10 | Cand | 60 | 15781 | 60CAC 25PK | 120 | 200 | CC-2V | 4.12 | | 1500 | 1.4 | 650 | 2500 | | \$7.23 | | Clear, Bent Tip |
| | | 60 | 76239 | 60CAC/CL/CD4-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 650 | 2500 | | \$7.23 | | Clear, Bent Tip |
| | | 60 | 66107 | 60CAC/CL/CD4-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 640 | 2500 | | \$7.23 | | Clear, Bent Tip |
| | | 60 | 76240 | 60CAC/F/CD4-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 640 | 2500 | | \$7.23 | | White, Bent Tip |
| | | 60 | 66108 | 60CAC/F/CD2-MPD | 120 | 4 | CC-2V | 4.12 | | 1500 | 1.4 | 640 | 2500 | | \$7.23 | | White, Bent Tip |
| G16.5 | Cand | 60 | 72777 | 60GC/CD2-4PK | 120 | 4 | CC-2V | 3.00 | | 1500 | 1.4 | 600 | 2500 | | \$7.23 | 5e, 9d | Clear, Globe, BDTH |
| | | 60 | 23091 | 60GC CD2 | 120 | 60 | CC-2V | 3.00 | | 1500 | 1.4 | 600 | 2500 | | \$7.23 | 5e, 9d | Clear, Globe, BDTH |
| | | 60 | 44723 | 60GC/W PQ2/6 | 120 | 30 | CC-2V | 3.00 | | 1500 | 1.4 | 530 | 2500 | | \$7.23 | 5e, 9d | White, Globe, BDTH |
| G40 | Med | 60 | 14187 | 60G40 6PK | 120 | 6 | CC-6 | 6.93 | | 2500 | 2.3 | 660 | 2600 | | \$7.23 | | Clear, Globe |
| | | 60 | 49780 | 60G40/W 6PK | 120 | 6 | CC-6 | 6.93 | | 2500 | 2.3 | 660 | 2600 | | \$7.23 | | White, Globe |
| | | 60 | 16741 | 60G40/W CPK | 120 | 24 | CC-6 | 6.93 | | 2500 | 2.3 | 660 | 2600 | | \$7.23 | | White, Globe |
| 75 Watts | | | | | | | | | | | | | | | | | |
| E17 | Med | 75 | 73289 | 75E17/TF-4PK | 120 | 4 | CC-6 | 5.00 | | 4000 | | 825 | | | | | |
| | | 75 | 28917 | 75E17/TF-PK4 | 120 | 20 | CC-6 | | | 4000 | 3.7 | 825 | | | | | |
| G40 | Med | 75 | 36193 | 75G40/W 6PK | 120 | 6 | CC-6 | 6.93 | | 2500 | 2.3 | 870 | 2600 | | \$9.03 | | White, Globe |
| 100 Watts | | | | | | | | | | | | | | | | | |
| F20 | Med | 100 | 44540 | 100F20/TF PQ1/6 | 120 | 30 | CC-9 | 5.00 | | 3000 | | 900 | | | | | Post Light, Teflon® Coated, Saf-T-Gard® BB |
| G40 | Med | 100 | 16742 | 100G40/W CPK | 120 | 24 | CC-6 | 6.93 | | 2500 | 2.3 | 1260 | 2700 | | \$12.05 | | White, Globe |
| | | 100 | 49781 | 100G40/W 6PK | 120 | 6 | CC-6 | 6.93 | | 2500 | 2.3 | 1260 | 2700 | | \$12.05 | | White, Globe |
| 150 Watts | | | | | | | | | | | | | | | | | |
| G40 | Med | 150 | 16585 | 150G40/W | 120 | 24 | CC-6 | 6.93 | | 2500 | 2.3 | 2130 | 2800 | | \$18.07 | | White, Globe |
| Portable Lighting Products | | | | | | | | | | | | | | | | | |
| R30 | Med | 65 | 44848 | PLK 1 UNIT | 120 | 4 | CC-6 | 5.37 | | 2000 | | | | | | 2a, 5e, 9k | Plant Light Kit includes one 75R30/ PL Plant Light lamp, UL listed holder and information booklet. |
| Contractor Packs | | | | | | | | | | | | | | | | | |
| G40 | Med | 60 | 16741 | 60G40/W CPK | 120 | 24 | CC-6 | 6.93 | | 2500 | 2.3 | 660 | 2600 | | \$7.23 | | White, Globe |
| | | 100 | 16742 | 100G40/W CPK | 120 | 24 | CC-6 | 6.93 | | 2500 | 2.3 | 1260 | 2700 | | \$12.05 | | White, Globe |
| G25 | Med | 25 | 25546 | 25G25/W CPK | 120 | 24 | CC-6 | 4.50 | | 1500 | 1.4 | 180 | 2500 | | \$3.01 | 5e, 9d | White, Globe, BDTH |
| | | 25 | 25545 | 25G25 CPK | 120 | 24 | CC-6 | 4.50 | | 1500 | 1.4 | 190 | 2500 | | \$3.01 | 5e, 9d | Clear, Globe, BDTH |
| | | 40 | 25547 | 40G25/W CPK | 120 | 24 | CC-6 | 4.50 | | 1500 | 1.4 | 370 | 2500 | | \$4.82 | 5e, 9d | White, Globe, BDTH |
| | | 40 | 25548 | 40G25 CPK | 120 | 24 | CC-6 | 4.50 | | 1500 | 1.4 | 410 | 2500 | | \$4.82 | 5e, 9d | Clear, Globe, BDTH |

* Based on 3 hours per day use.
 ** Based on 3 hours per day use, \$0.11 per Kwh

Incandescent Lamps

Warning and Caution Notices

1

⚠ WARNING

Risk of electric shock

- a. Turn off power before inspection, installation or removal

2

⚠ WARNING

Risk of fire

- a. Keep combustible materials away from lamp
- b. Use in fixture rated for this product
- c. Use in fixture rated for this product – see instructions
- d. Operate base down to horizontal only
- e. Keep away from bed coverings, drapes and other combustible materials
- f. Do not use in enclosed fixture or with lamp shade
- g. Use in a high intensity fixture rated for this product
- h. Do not use as a night light
- i. Burning position base down only

3

⚠ WARNING

Lamp emits IR radiation which may cause eye injury

- a. Use in fixture approved for this product
- b. Do not use on infant, disabled, sleeping, or unconscious person/ animal unable to avoid potential injury

4

⚠ WARNING

Pressurized lamp – unexpected rupture may cause injury, fire, or property damage

- a. Use eye protection when handling lamp
- b. Avoid direct water/liquid contact
- c. Use in enclosed fixture rated for this product
- d. Operate lamp only in specified position

5

⚠ WARNING

Unexpected lamp rupture may cause injury, fire, or property damage

- a. Do not exceed rated voltage
- b. Avoid direct water/liquid contact
- c. Use in enclosed fixture rated for this product
- d. Do not use lamp if outer glass is scratched or broken
- e. Avoid direct water, liquid, or metal contact

6

⚠ WARNING

Risk of burn

- a. Do not touch operating lamp

7

⚠ CAUTION

Risk of burn

- a. Allow lamp to cool before handling
- b. Allow lamp/fixture to cool before handling
- c. Do not touch operating lamp

8

⚠ CAUTION

Lamp may shatter and cause injury if broken

- a. Do not use excessive force when installing lamp

9

Operating Instructions

- a. Burning position – base up
- b. Burning position – horizontal
- c. Burn base down only
- d. Burn base down to horizontal
- e. For best performance burn lamp within 45 degrees of vertical base up
- f. For best performance burn within 45 degree of base down to horizontal
- g. For best performance operate base up within 30° of vertical
- h. For best performance burn base down
- i. Do not burn in base up position
- j. To produce all three levels of light, this lamp should be tightened firmly, but not forcibly, in the socket to assure that all contacts are connected
- k. Should not be used in equipment where the base lamp will exceed 550°F (260°C)
- l. Will operate in any burning position, but fixed-socket usage other than base up, or continuous burning in any position in ambient temperatures above 150°F (66°C), may result in some loss of protective coating
- m. Reflectors and accessories may raise bulb temperature
- n. For use with heat-resistant connector supported by bulb rim or metal shell of base
- o. For best performance replace lamp if it blisters or darkens

Cross-Reference

| GE Description | Osram/Sylvania Description | Philips Description |
|--|----------------------------------|---------------------------|
| Order This GE Lamp | If you currently use these lamps | |
| Incandescent Lamps | | |
| 3S6/5 130V | 3S6/5 130V | 3S6/5 120-130V |
| 4C7 | 4C7/BL/2PK | BC-4C7 |
| 4C7/W | 4C7/W/2PK 120V | BC4C7/W |
| 10S11N | 10S11N/CL | 10S11N |
| 10S11N/F | 10S11N/IF | 10S11N/IF |
| 15S14/GR/CL 130V | 15S14/CL 130V | — |
| 40S11N/1/F | 40S11N/CF 120V | 40S11N/F 120V |
| 40R14/N/CD | 40R14/N/RP | 40R14/N |
| 40T6 1/2 | 40T6.5/CL | 40T6-1/2 120V |
| 40T8 | 40T8 | 40T8 |
| 40T10 | 40T10 | 40T10 |
| 60T10F/CD | 60T10/CF | 60T10/641F |
| High Intensity Discharge | | |
| 38A 130V | 38A/CVP 130V | 38A 120V |
| 38A/CL 130V | not available in 130V | 38A/CL 130V |
| 40A15 | 40A15 | 40A15 |
| 40A 48PK | 40A/CVP 130V | 40A 130V |
| Fluorescent | | |
| 50A19/RS/SH | 50A/RS/SL | 50A/RS/TF 120V |
| 50/150 | 50/150A/W | 50/150T/SW |
| Compact Fluorescent | | |
| 57A 130V | 57A/CVP 130V | 57A 130V |
| 57A/CL 130V | 57A/CL 130V | 57A/CL 130V |
| 60A15 | 60A15 | 60A15 |
| 60A 48PK | 60A/CVP 130V | 60A19/35 |
| 60A/RS 130V | 60A/RS/2/RP 130V | — |
| 60A/RS/STG | 60A/RS/SL/RP 120V | — |
| 60A/PL | 60A/GRO | 60A/AGRO |
| LED Lamps, Tubes and Modules | | |
| 65R30FL/LL | — | 65BR30/FL/LL |
| 65R30/SP/LL | — | 65BR30/SP/LL |
| Stage and Studio | | |
| 71A 130V | 71A/CVP 130V | 71A 120V |
| 71A/CL 130V | not available in 130V | 71A/CL 130V |
| 75A 48PK | 75A/CVP 130V | 75A |
| 75A/RS/130 | 75A/RS/2/RP 130V | — |
| 75A/RS/STG | 75A21/RS/SL/RP 130V | 75A/RH/TG 120-130V |
| Miniature, Sealed Beam and Automotive | | |
| 95A 130V | 95A/CVP 130V | 95A 120V |
| 95A/CL 130V | not available in 130V | 95A/CL 130V |
| 100A 48PK | 100A/CVP 130V | 100A 130V |
| 100A/RS 130V | 100A/RS/2/RP 130V | — |
| 100A/RS/STG | 100A/RS/SL/RP 120V | 100A/RS/VS/BR/TG 120-130V |
| 100A23 | 100A23 12V | 100A 12V |
| Projection | | |
| 150A21/RS | 150A23/RS 130V | — |
| 150A21/RS/STG | — | 150A/35/RS/BR/TG 120-130V |
| 150PS25/RS/STG | 150PS25/RS/SL 120V | — |
| 200PS30/RS/23/STG | 200PS/RS/SL 120V | 200PS30/RS/TF 120V |
| 250R40/10 | 250R40/10 | 250R40/HR |
| 300M | 300M/CL | 300-120V CLR PS30 |
| 300M/F | 300M/IF | 300M/PS30IF 130V |
| 15BC | 15B10C/T | 15BA9C |
| 15FC | 15FC | 15F10C |
| High Intensity Discharge | | |
| 25BC | 25B10C/T | 25B10-1/2C |
| 25BM | 25B10 | 25B13 |
| 25CAC | 25B10C | 25BA9C/CL |
| 25CAC/F | 25B10C/W | 25BA9C/F |
| 25CAC/L | 25B10C/DL | 25BA9C/4M |
| 25CAM | — | 25BA9-1/2 |

| GE Description | Osram/Sylvania Description | Philips Description |
|---------------------------------------|----------------------------------|---------------------|
| Order This GE Lamp | If you currently use these lamps | |
| Incandescent Lamps (continued) | | |
| 25FM/CF | — | — |
| 25GC | 25G16.5C | 25G16-1/2C |
| 25GM | 25G16.5 | 25G16-1/2 |
| 25G25 | 25G25 | 25G25 |
| High Intensity Discharge | | |
| 40BC | 40B10C/T | 40B10-1/2C |
| 40BM | 40B10 | 40B13 |
| 40CAC | 40B10C | 40BA9C/CL |
| 40CAC/F | 40B10C/F | 40BA9C/F |
| 40CAC/L | — | 40BA9C/4M |
| 40CAM | — | 40BA9-1/2 |
| 40CAM/L | — | 40BA9-1/2/LL |
| 40FM/CF | — | — |
| 40GC | 40G16.5C | 40G16-1/2C |
| 40GM | 40G16.5 | 40G16-1/2 |
| 40G25 | 40G25 | 40G25 |
| Fluorescent | | |
| 60BC | 60B10C/T | 60B10-1/2C |
| 60BM | 60B10 | 60B13 |
| 60CAC | 60B10C | 60BA9C/CL |
| 60CAC/F | 60B10C/F | 60BA9C/F |
| 60CAM | — | 60BA9-1/2 |
| 60FM/CF | — | — |
| 60GC | 60G16.5C | 60G16-1/2C |
| 60GM | 60G16.5 | 60G16-1/2 |
| 60G25 | 60G25 | 60G25 |

Incandescent Lamps

Notes

Lined area for notes with horizontal ruling lines.

Halogen Lamps

| | | | |
|---|------|---|------|
| Bulb Identification | 2-2 | Quartzline® | |
| Filament Identification | 2-2 | HIR™ Recessed Single Contact (R7s)..... | 2-11 |
| Base Identification | 2-2 | Halogen G9..... | 2-11 |
| Introduction | 2-3 | Halogen Double Contact Bayonet (BA15d)..... | 2-11 |
| Product Information | 2-3 | Halogen Recessed Single Contact (R7s)..... | 2-12 |
| Section Headings | 2-4 | Halogen PAR56..... | 2-13 |
| Halogen Brand Name Cross-Reference | 2-4 | Halogen PAR64..... | 2-13 |
| Halogen PAR38 Lamps | | Halogen Miniature Candelabra Screw (E11)..... | 2-13 |
| HIR™ Plus(+)..... | 2-5 | Other..... | 2-13 |
| HIR™ Plus(+) XL..... | 2-5 | Airport | 2-13 |
| Standard Halogen..... | 2-5 | Tubular Quartz Heat | |
| Cool Beam PAR38 Quartzline®..... | 2-5 | Sleeve..... | 2-14 |
| Halogen Compact PAR Lamps | | Recessed Single Contact (R7s)..... | 2-14 |
| Compact HIR™ PAR30..... | 2-6 | Other..... | 2-15 |
| Compact HIR™ PAR30 Long Neck..... | 2-6 | General Information | 2-16 |
| Compact PAR30 Long Neck..... | 2-6 | Operating Notes | 2-16 |
| Compact PAR30..... | 2-6 | Warning and Caution Notices | 2-17 |
| Compact PAR20..... | 2-6 | Cross-Reference | 2-18 |
| Halogen Compact PAR16..... | 2-6 | | |
| Compact PAR36..... | 2-6 | | |
| Halogen Reflector | | | |
| HIR™..... | 2-6 | | |
| A-Line/Decorative | | | |
| A-19..... | 2-6 | | |
| A-21..... | 2-7 | | |
| Traditional Decorative..... | 2-7 | | |
| Flame..... | 2-7 | | |
| Globe..... | 2-8 | | |
| T-Shape..... | 2-8 | | |
| Landscape Lighting | 2-8 | | |
| AR70 | 2-8 | | |
| AR111 | 2-8 | | |
| MR | | | |
| Turn & Lock ConstantColor®..... | 2-8 | | |
| ConstantColor® Precise™ Cover Glass MR16..... | 2-9 | | |
| ConstantColor® Precise™ MR16..... | 2-9 | | |
| Precise™ Cover Glass IR MR16..... | 2-9 | | |
| Standard MR16..... | 2-10 | | |
| Standard MR16 Cover Glass..... | 2-10 | | |
| Standard MR11..... | 2-10 | | |
| 120V GU10..... | 2-10 | | |
| Quartz Halogen | | | |
| Low Voltage..... | 2-10 | | |
| High Voltage..... | 2-11 | | |

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

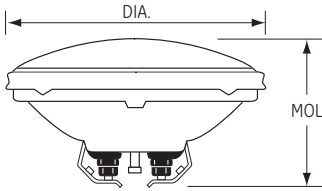
Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

Halogen Lamps

Bulb Identification



DIA. in.: Diameter of bulb at widest point.

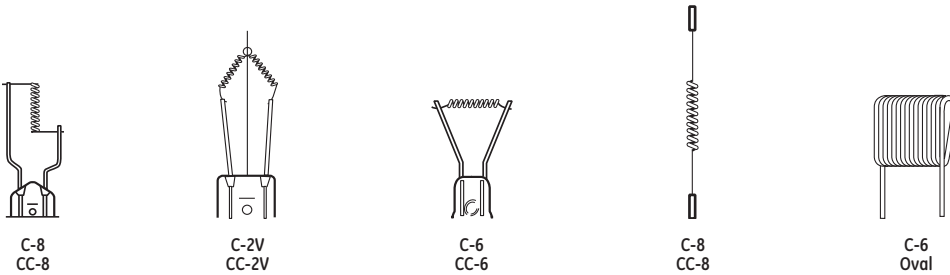
MOL in.: Maximum Overall Length including base or pins.

LCL in.: Distance between the center of the filament and the Light Center Length reference plane.

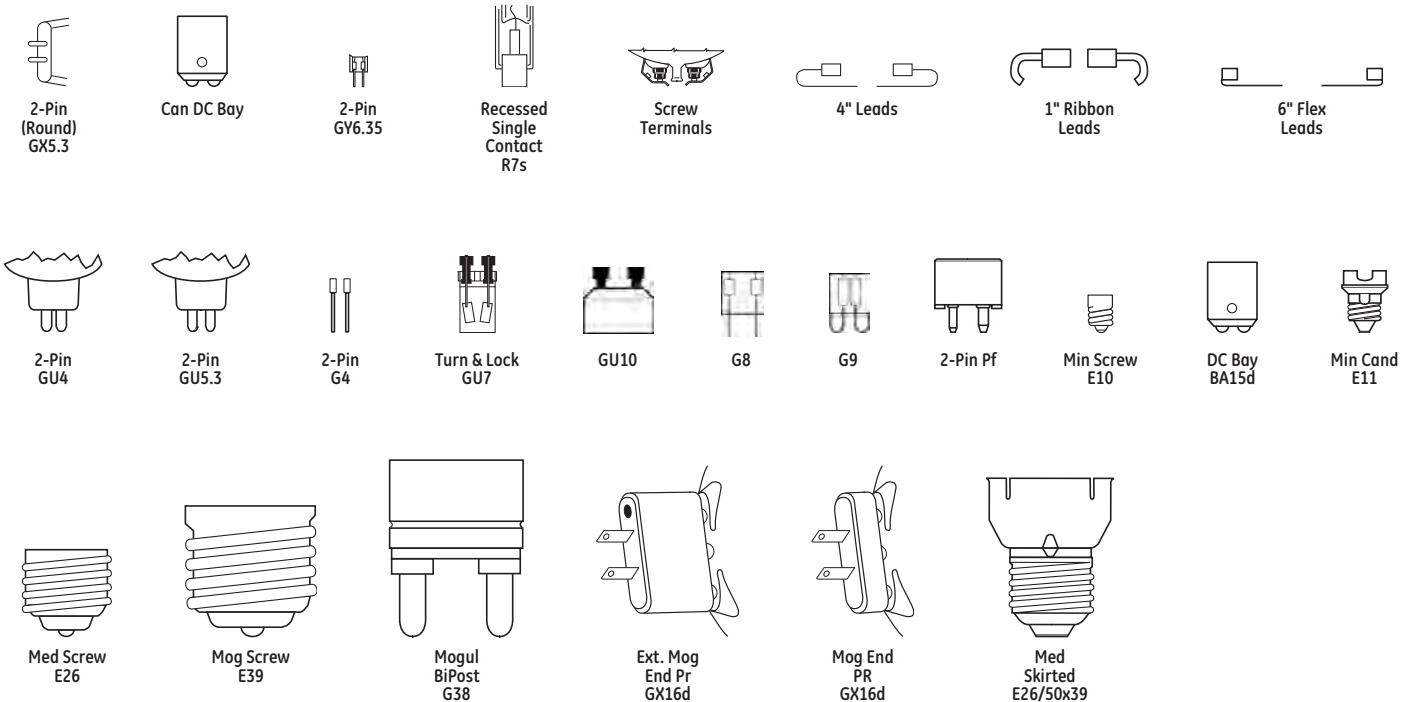
Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

Filament Identification



Base Identification



Introduction

Halogen lamps provide a small, white light source with excellent color rendering. Unlike standard incandescent lamps, halogen lamps use a halogen gas which allows the bulbs to burn longer without sacrificing light output.

Compared to incandescent lamps, halogen lamps provide:

- Crisp, white light
- Excellent beam control
- Compact size
- High lumen maintenance
- Long life

Product Information

PAR38 vs. Standard Halogen

HIR™ Plus (PAR38) (pg 2-5)

- Up to 36% in energy savings
- Up to 50% longer life – 4200 hours

Standard Halogen (PAR38) (pg 2-5)

- Crisp, white light
- Life – 2000 hours

Halogen Compact PAR Lamps

Compact HIR™ PAR30 (pg 2-6)

- Long life – 4000 hours

Compact PAR30 Long Neck (pg 2-6)

- Energy-efficient replacement for R30 lamps
- Ideal for recessed fixtures

Compact PAR Halogen (PAR30/PAR20) (pg 2-6)

- Small size for “low profile” fixture
- Energy-efficient replacement for R20/R30 lamps
- Long life – 3000 hours

MR

Turn & Lock (TAL) ConstantColor® (MR16) (pg 2-8)

- User-friendly base...easy to install and remove
- Over 90% maintained light over life
- Excellent color maintenance
- Suitable for use in open fixtures

ConstantColor® Precise™ Cover Glass (MR16) (pg 2-9)

- Cover glass lens protects bulb from dust and dirt
- Suitable for use in open fixtures

ConstantColor® Precise™ (MR16) (pg 2-9)

- Precise beam control
- Excellent color maintenance
- Over 90% maintained light output over life
- Long life – up to 6000 hours (50-watt)

Precise™ Cover Glass IR (MR16) (pg 2-9)

- Energy-saving MR16
- 5000 hour lamp life

Standard MR (MR16/MR11) (pg 2-10)

- Small size for “low profile” look
- Crisp, white light

Linear Quartz

Linear Quartzline® HIR™ (pg 2-11)

- 30%-40% energy cost savings vs. standard quartz lamps
- 95% maintained light output over life
- Cooler operation increases fixture life

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

Stage and Studio

Miniature, Sealed Beams and Automotive

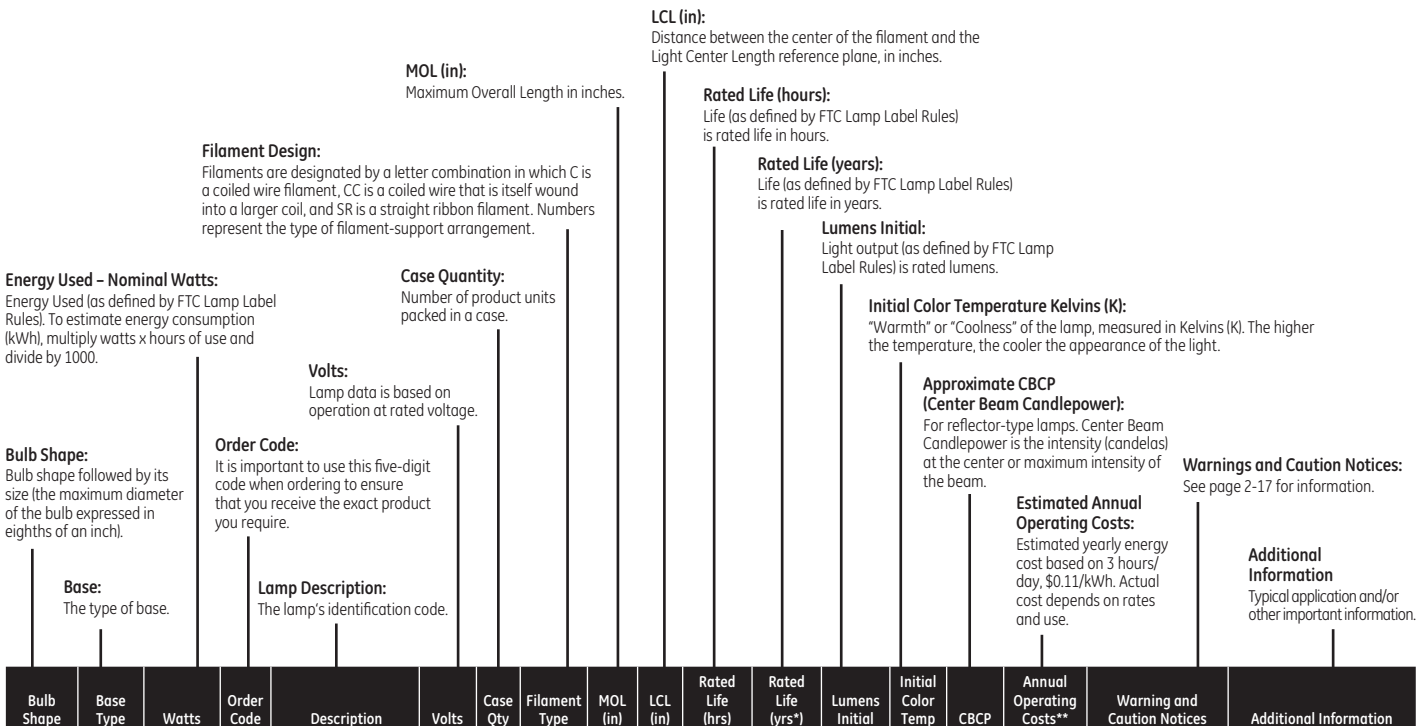
Projection

Halogen Lamps

Headings in this catalog section

The following terms and descriptions can help you when checking Halogen lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families,

lamps are listed by wattage. In each of these groups, lamps are listed alphabetically by bulb shape.



Halogen Par 38 Lamps

Retail HIR™ & Silv-IR

| | | | | | | | | | | | | | | | | | |
|-------|-----------|----|-------|------------------|-----|----|--|------|--|------|--|-----|------|--------|--|-----------------|---------------------------------|
| PAR38 | Med Skirt | 50 | 46168 | 50PAR/HIR/S/SP10 | 120 | 12 | | 5.31 | | 4000 | | 800 | 2750 | 140000 | | 1a,2a,4f,9a,10c | Spotlight - Heavy Duty Filament |
|-------|-----------|----|-------|------------------|-----|----|--|------|--|------|--|-----|------|--------|--|-----------------|---------------------------------|

50 PAR / HIR / SP 10

Identifies the lamp's wattage.

Identifies the lamp shape and the bulb diameter in eighths of inches.

Identifies the lamp type.

Identifies as Spotlight.

Identifies beam angle, code may also include packaging information.




WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape next to lamp information.
2. Measure bulb diameter using ruler in Appendix section page D-1 to determine width in eighths of an inch.
3. Identify base type using table on page 2-2.
4. Find your lamp in the table containing the bulb shape, size and base, which are all listed by wattage.

Halogen Brand Name Cross-reference





| GE | Osram/Sylvania | Philips |
|----------------------------------|------------------------------|--------------------|
| HIR™ PLUS | — | Long Life IRC |
| Standard Halogen PAR | Capsylite® PAR | Masterline™ 2000 |
| Compact PAR | Capsylite® PAR | Masterline™ PAR |
| Turn & Lock (TAL) ConstantColor® | — | — |
| ConstantColor® Precise™ | Tru-Aim Titan® | Continuum Color® |
| Precise™ IR | Tru-Aim® IR™ | Masterline™ ES IRC |
| Standard MR16 | Tru-Aim® | Continuum® |
| Halogen A-Line | Capsylite® A-Line (Midbreak) | Halogena® |

ATTENTION: This brand-name cross reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturers' performance specifications should be consulted. Lamp performance may be affected by environmental conditions, and/or other auxiliary equipment.

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | Filament Type | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Initial Lumens | Initial Color Temp | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|---|-----------|------------------|------------|--------------------|-------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|-----------------|--------------------------|-----------------------------|---------------------------------|
| Halogen PAR 38 Lamps | | | | | | | | | | | | | | | | | |
| HIR™ Plus(+) | | | | | | | | | | | | | | | | | |
|  | Med Skirt | 45 | 90512 | 45PAR/HIR+/SP10 | 120 | 12 | CC-8 | 5.31 | | 4200 | 3.8 | 870 | 2750 | 14100 | \$5.42 | 1a,2a,4f,9a,10c | Spotlight |
| | | 45 | 90513 | 45PAR/HIR+/FL25 | 120 | 12 | CC-8 | 5.31 | | 4200 | 3.8 | 870 | 2750 | 3500 | \$5.42 | 1a,2a,4f,9a,10c | Floodlight |
| | | 48 | 90515 | 48PAR/HIR+/SP10 | 120 | 12 | CC-8 | 5.31 | | 4200 | 3.8 | 970 | 2750 | 15500 | \$5.78 | 1a,2a,4f,9a,10c | Spotlight |
| | | 48 | 90519 | 48PAR/HIR+/FL25 | 120 | 12 | CC-8 | 5.31 | | 4200 | 3.8 | 970 | 2750 | 3800 | \$5.78 | 1a,2a,4f,9a,10c | Floodlight |
| | | 50 | 62713 | 50PARHIR+3KSP10T | 120 | 6 | CC-8 | 5.31 | | 2600 | 2.4 | 900 | 2800 | 13700 | \$6.02 | 1a,2a,4f,9a,10c | Spotlight |
| | | 50 | 62714 | 50PARHIR+3KFL25T | 120 | 6 | CC-8 | 5.31 | | 2600 | 2.4 | 900 | 2800 | 3400 | \$6.02 | 1a,2a,4f,9a,10c | Floodlight |
| | | 50 | 66283 | 50PARHIR+3KS10P2 | 120 | 3 | CC-8 | 5.31 | | 2600 | 2.4 | 900 | 2800 | 13700 | \$6.02 | 1a,2a,4f,9a,10c | Spotlight |
| | | 50 | 66284 | 50PARHIR+3KF25P2 | 120 | 3 | CC-8 | 5.31 | | 2600 | 2.4 | 900 | 2800 | 3400 | \$6.02 | 1a,2a,4f,9a,10c | Floodlight |
| | | 55 | 71446 | 55PAR/HIR+/SP10 | 120 | 12 | CC-8 | 5.31 | | 4200 | 3.8 | 1120 | 2750 | 17500 | \$6.62 | 1a,2a,4f,9a,10c | Spotlight |
| | | 55 | 71598 | 55PAR/HIR+/FL25 | 120 | 12 | CC-8 | 5.31 | | 4200 | 3.8 | 1120 | 2750 | 4100 | \$6.62 | 1a,2a,4f,9a,10c | Floodlight |
| | | 55 | 69819 | 55PAR/HIR+/WFL | 120 | 12 | CC-8 | 5.31 | | 4200 | 3.8 | 1120 | 2750 | 1200 | \$6.62 | 1a,2a,4f,9a,10c | Wide Floodlight |
| | | 60 | 90520 | 60PAR/HIR+/SP10 | 120 | 12 | CC-8 | 5.31 | | 4200 | 3.8 | 1260 | 2800 | 19000 | \$7.23 | 1a,2a,4f,9a,10c | Spotlight |
| | | 60 | 90529 | 60PAR/HIR+/FL25 | 120 | 12 | CC-8 | 5.31 | | 4200 | 3.8 | 1260 | 2800 | 4700 | \$7.23 | 1a,2a,4f,9a,10c | Floodlight |
| | | 67 | 90601 | 67PAR/HIR+/SP10 | 120 | 12 | CC-8 | 5.31 | | 4200 | 3.8 | 1500 | 2750 | 22000 | \$8.07 | 1a,2a,4f,9a,10c | Spotlight |
| | | 67 | 90602 | 67PAR/HIR+/FL25 | 120 | 12 | CC-8 | 5.31 | | 4200 | 3.8 | 1500 | 2800 | 5000 | \$8.07 | 1a,2a,4f,9a,10c | Floodlight |
| | | 70 | 68979 | 70PARHIR+3KS10P1 | 121 | 6 | CC-8 | 5.31 | | 3000 | 2.7 | 1305 | 19000 | 2850 | \$8.43 | 1a,2a,4f,9a,10c | Spotlight |
| | | 70 | 68980 | 70PARHIR+3KS8P1 | 122 | 6 | CC-8 | 5.31 | | 3000 | 2.7 | 1305 | 26000 | 2850 | \$8.43 | 1a,2a,4f,9a,10c | Narrow Spotlight |
| | | 70 | 68978 | 70PARHIR+3KF25P1 | 123 | 6 | CC-8 | 5.31 | | 3000 | 2.7 | 1305 | 4500 | 2850 | \$8.43 | 1a,2a,4f,9a,10c | Floodlight |
| | | 80 | 66302 | 80PARHIR+3KS10P1 | 120 | 6 | CC-8 | 5.31 | | 3000 | 2.7 | 1600 | 2900 | 2270 | \$9.64 | 1a,2a,4f,9a,10c | Spotlight |
| | | 80 | 66303 | 80PARHIR+3KF25P1 | 120 | 6 | CC-8 | 5.31 | | 3000 | 2.7 | 1600 | 2900 | 5200 | \$9.64 | 1a,2a,4f,9a,10c | Floodlight |
| | | 80 | 66306 | 80PARHIR+3KS10P2 | 120 | 3 | CC-8 | 5.31 | | 3000 | 2.7 | 1600 | 2900 | 22700 | \$9.64 | 1a,2a,4f,9a,10c | Spotlight, Twin Pack |
| | | 80 | 66307 | 80PARHIR+3KF25P2 | 120 | 3 | CC-8 | 5.31 | | 3000 | 2.7 | 1600 | 2900 | 5200 | \$9.64 | 1a,2a,4f,9a,10c | Floodlight, Twin Pack |
| | | 83 | 90605 | 83PAR/HIR+/SP10 | 120 | 12 | CC-8 | 5.31 | | 4000 | 3.8 | 2030 | 2850 | 30000 | \$10.00 | 1a,2a,4f,9a,10c | Spotlight |
| | | 83 | 90606 | 83PAR/HIR+/FL25 | 120 | 12 | CC-8 | 5.31 | | 4200 | 3.8 | 2030 | 2850 | 7000 | \$10.00 | 1a,2a,4f,9a,10c | Floodlight |
| | | 90 | 62715 | 90PARHIR+3KSP10T | 120 | 6 | CC-8 | 5.31 | | 3000 | 2.7 | 1900 | 2900 | 26500 | \$10.84 | 1a,2a,4f,9a,10c | Spotlight |
| | | 90 | 62716 | 90PARHIR+3KFL25T | 120 | 6 | CC-8 | 5.31 | | 3000 | 2.7 | 1900 | 2900 | 6200 | \$10.84 | 1a,2a,4f,9a,10c | Floodlight |
| | | 90 | 66285 | 90PARHIR+3KS10P2 | 120 | 3 | CC-8 | 5.31 | | 3000 | 2.7 | 1900 | 2900 | 26500 | \$10.84 | 1a,2a,4f,9a,10c | Spotlight, Twin Pack |
| 90 | 66286 | 90PARHIR+3KF25P2 | 120 | 3 | CC-8 | 5.31 | | 3000 | 2.7 | 1900 | 2900 | 6200 | \$10.84 | 1a,2a,4f,9a,10c | Floodlight, Twin Pack | | |
| HIR™ Plus(+)+XL | | | | | | | | | | | | | | | | | |
|  | Med Skirt | 53 | 76142 | 53PARHIR+XL/SP10 | 120 | 12 | CC-8 | 5.31 | | 7800 | 7.1 | 940 | 2700 | 15000 | \$6.38 | 1a,2a,4f,9a,10c | Spotlight, Long Life |
| | | 53 | 76143 | 53PARHIR+XL/FL25 | 120 | 12 | CC-8 | 5.31 | | 7800 | 7.1 | 940 | 2700 | 3700 | \$6.38 | 1a,2a,4f,9a,10c | Floodlight, Long Life |
| | | 75 | 67822 | 53PARHIR+XLS10P6 | 120 | 6 | CC-8 | 5.31 | | 8400 | 7.7 | 940 | 2700 | 15000 | \$6.38 | 1a,2a,4f,9a,10c | Spotlight, Long Life |
| | | 75 | 67823 | 53PARHIR+XLF25P6 | 120 | 6 | CC-8 | 5.31 | | 8400 | 7.7 | 940 | 2700 | 3700 | \$6.38 | 1a,2a,4f,9a,10c | Floodlight, Long Life |
| | | 75 | 68957 | 53PARHIR+8KF25T2 | 120 | 4 | CC-8 | 5.31 | | 8400 | 7.7 | 940 | 2700 | 3700 | \$6.38 | 1a,2a,4f,9a,10c | Floodlight, Long Life Twin Pack |
| | | 75 | 62231 | 75PARHIR+8KFL25T | 120 | 6 | CC-8 | 5.31 | | 8400 | 7.7 | 1500 | 2750 | 5000 | \$9.03 | 1a,2a,4f,9a,10c | Floodlight, Long Life |
| | | 75 | 62232 | 75PARHIR+8KSP10T | 120 | 6 | CC-8 | 5.31 | | 8400 | 7.7 | 1500 | 2750 | 22000 | \$9.03 | 1a,2a,4f,9a,10c | Spotlight, Long Life |
| | | 75 | 68956 | 75PARHIR+8KF25T2 | 120 | 4 | CC-8 | 5.31 | | 8400 | 7.7 | 1500 | 2750 | 5000 | \$9.03 | 1a,2a,4f,9a,10c | Floodlight, Long Life Twin Pack |
| Standard Halogen | | | | | | | | | | | | | | | | | |
|  | Med Skirt | 38 | 69135 | 38PARH1500SP10 | 120 | 12 | CC-8 | 5.31 | | 1500 | 1.4 | 520 | 6600 | 2850 | \$4.58 | 1a,2a,4f,9a,10c | Spotlight |
| | | 38 | 69136 | 38PARH1500FL25 | 120 | 12 | CC-8 | 5.31 | | 1500 | 1.4 | 520 | 2000 | 2850 | \$4.58 | 1a,2a,4f,9a,10c | Floodlight |
| | | 38 | 60074 | 38PAR38H1500F25/P2 | 120 | 6 | CC-8 | 5.31 | | 1500 | 1.4 | 520 | 2000 | 2850 | \$4.58 | 1a,2a,4f,9a,10c | Floodlight, Twin Pack |
| | | 60 | 62703 | 60PARH1500SP10TP | 120 | 6 | CC-8 | 5.31 | | 1500 | 1.4 | 1070 | 2900 | 17400 | \$7.23 | 1a,2a,4f,9a,10c | Spotlight |
| | | 60 | 62704 | 60PARH1500FL25TP | 120 | 6 | CC-8 | 5.31 | | 1500 | 1.4 | 1070 | 2900 | 4050 | \$7.23 | 1a,2a,4f,9a,10c | Floodlight |
| | | 60 | 66279 | 60PARH1500S10/P2 | 120 | 3 | CC-8 | 5.31 | | 1500 | 1.4 | 1070 | 2900 | 17400 | \$7.23 | 1a,2a,4f,9a,10c | Spotlight, Twin Pack |
| | | 60 | 66280 | 60PARH1500F25/P2 | 120 | 3 | CC-8 | 5.31 | | 1500 | 1.4 | 1070 | 2900 | 4050 | \$7.23 | 1a,2a,4f,9a,10c | Floodlight, Twin Pack |
| | | 90 | 62705 | 90PARH1500SP10TP | 120 | 6 | CC-8 | 5.31 | | 1500 | 1.4 | 1790 | 2900 | 26450 | \$10.84 | 1a,2a,4f,9a,10c | Spotlight |
| | | 90 | 62706 | 90PARH1500FL25TP | 120 | 6 | CC-8 | 5.31 | | 1500 | 1.4 | 1790 | 2900 | 6850 | \$10.84 | 1a,2a,4f,9a,10c | Floodlight |
| | | 90 | 66281 | 90PARH1500S10/P2 | 120 | 3 | CC-8 | 5.31 | | 1500 | 1.4 | 1790 | 2900 | 26450 | \$10.84 | 1a,2a,4f,9a,10c | Spotlight, Twin Pack |
| | | 90 | 66282 | 90PARH1500F25/P2 | 120 | 3 | CC-8 | 5.31 | | 1500 | 1.4 | 1790 | 2900 | 6850 | \$10.84 | 1a,2a,4f,9a,10c | Floodlight, Twin Pack |
| Cool Beam PAR38 Quartzline® | | | | | | | | | | | | | | | | | |
| PAR38 | Med Skirt | 250 | 23719 | Q250PAR/SP10 | 120 | 12 | CC-8 | 5.31 | | 4200 | | 3600 | 2880 | 40000 | | 1a,2a,2j,4b,4f,4g,4h,9a,10c | Spotlight |
| | | 250 | 23718 | Q250PAR/FL30 | 120 | 12 | CC-8 | 5.31 | | 4200 | | 3600 | 2880 | 9000 | | 1a,2a,2j,4b,4f,4g,4h,9a,10c | Floodlight |





* Based on 3 hours per day use.
 ** Based on 3 hours per day use, \$0.11 per Kwh

Halogen Lamps

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | Filament Type | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Initial Lumens | Initial Color Temp | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|--|-----------|--------------------|--------------------------|--------------------|-------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|--------------------|--------------------------|------------------------------------|---|
| Halogen Compact PAR Lamps | | | | | | | | | | | | | | | | | |
| Compact HIR™ PAR30 | | | | | | | | | | | | | | | | | |
|  | Med | 48 | 66580 | 48PAR30HIR+/NFL | 120 | 6 | CC-8 | 3.62 | | 4200 | 3.8 | 840 | 2775 | 2600 | \$5.78 | 1a,2a,4f,4h,9a,10c | Narrow Floodlight, 25° |
| | | 48 | 76126 | 48PAR30/HIR+/FL30 | 120 | 6 | CC-8 | 3.62 | | 4200 | 3.8 | 840 | 2775 | 2600 | \$5.78 | 1a,2a,4f,4h,9a,10c | Floodlight |
| | | 48 | 76127 | 48PAR30/HIR+/SP10 | 120 | 6 | CC-8 | 3.62 | | 4200 | 3.8 | 840 | 2775 | 10200 | \$5.78 | 1a,2a,4f,4h,9a,10c | Spotlight |
| Compact HIR™ PAR30 Long Neck | | | | | | | | | | | | | | | | | |
| PAR30L | Med | 48 | 73546 | 48PAR30L/HIR+/FL | 120 | 6 | CC-8 | 4.75 | | 4200 | 3.8 | 850 | 2750 | 2500 | \$5.78 | 1a,2a,4f,4h,9a,10c | Floodlight |
| | | 48 | 74779 | 48PAR30L/HIR+/SP | 120 | 6 | CC-8 | 4.75 | | 4200 | 3.8 | 850 | 2750 | 9500 | \$5.78 | 1a,2a,4f,4h,9a,10c | Spotlight |
| Compact PAR30 Long Neck | | | | | | | | | | | | | | | | | |
| PAR30L | Med | 38 | 69168 | 38PAR30L/H/FL25 | 120 | 6 | CC-8 | 4.75 | | 1500 | 1.4 | 550 | 1500 | 2850 | \$4.58 | 1a,2a,4f,4h,9a,10c | Floodlight |
| | | 38 | 69169 | 38PAR30L/H/SP10 | 120 | 6 | CC-8 | 4.75 | | 1500 | 1.4 | 550 | 3800 | 2850 | \$4.58 | 1a,2a,4f,4h,9a,10c | Spotlight |
| Compact PAR30 | | | | | | | | | | | | | | | | | |
| PAR30 | Med | 38 | 69166 | 38PAR30H/FL25 | 120 | 6 | CC-8 | 3.62 | | 1500 | 1.4 | 580 | 1750 | 2850 | \$4.58 | 1a,2a,4f,4h,9a,10c | Floodlight |
| | | 38 | 69167 | 38PAR30H/SP10 | 120 | 6 | CC-8 | 3.62 | | 1500 | 1.4 | 580 | 5700 | 2850 | \$4.58 | 1a,2a,4f,4h,9a,10c | Spotlight |
| Compact PAR20 | | | | | | | | | | | | | | | | | |
|  | Med | 35 | 85476 | 35PAR20H/F25-PQ1/6 | 120 | 6 | CC-8 | 3.13 | | 1500 | 1.4 | 260 | 2700 | 520 | \$4.22 | 1a,2a,4f,4h,9a,10c | Floodlight |
| | | 35 | 71740 | 35PAR20H/YR-TP12 | 120 | 12 | CC-8 | 3.13 | | 1500 | 1.4 | 260 | 2700 | 520 | \$4.22 | 1a,2a,4f,4h,9a,10c | Floodlight |
| | | 38 | 69163 | 38PAR20H/FL25 | 120 | 6 | CC-8 | 3.13 | | 1500 | 1.4 | 490 | 1450 | 2850 | \$4.58 | 1a,2a,4f,4h,9a,10c | Floodlight |
| | | 38 | 69164 | 38PAR20H/SP10 | 120 | 6 | CC-8 | 3.13 | | 1500 | 1.4 | 490 | 3800 | 2850 | \$4.58 | 1a,2a,4f,4h,9a,10c | Spotlight |
| | | 38 | 69165 | 38PAR20H/FL25/P2 | 120 | 3 | CC-8 | 3.13 | | 3000 | 1.4 | 490 | 1450 | 2850 | \$4.58 | 1a,2a,4f,4h,9a,10c | Floodlight, Twin Pack |
| | | 38 | 69148 | 38PAR20H/HIR+/FL30 | 120 | 6 | CC-8 | 3.13 | | 3000 | 1.4 | 530 | 1300 | 2750 | \$4.58 | 1a,2a,4f,4h,9a,10c | HIR+, Floodlight |
| 38 | 69149 | 38PAR20H/HIR+/SP15 | 120 | 6 | CC-8 | 3.13 | | 3000 | 1.4 | 530 | 2600 | 2750 | \$4.58 | 1a,2a,4f,4h,9a,10c | HIR+, Spotlight | | |
| Halogen Compact PAR16 | | | | | | | | | | | | | | | | | |
| JDR16 | Med | 35 | 20641 | 35PAR16CURIO | 120 | 3 | CC-6V | 2.05 | | 3000 | 2.7 | | 2700 | 500 | | 1a,2a,2b,2e,4f,4i,4h,7a,9a,10b,10c | Curio cabinet |
|  | Med | 60 | 41623 | 60PAR16H/FL30 | 120 | 6 | CC-8 | 2.88 | | 2000 | 1.8 | 650 | 2950 | 1550 | | 1a,2a,4f,4h,9a,10c | Floodlight |
| | | 60 | 82142 | 60PAR16FL/RVL-CD | 120 | 6 | CC-8 | 2.88 | | 2000 | 1.8 | 485 | 2850 | | | 1a,2a,4f,4h,9a,10c | Reveal®, Floodlight, Carded |
| | | 75 | 41629 | 75PAR16H/FL30 | 120 | 6 | CC-8 | 2.88 | | 2000 | 1.8 | 900 | 2950 | 1600 | | 1a,2a,4f,4h,9a,10c | Floodlight |
| Compact PAR36 | | | | | | | | | | | | | | | | | |
| PAR36 | Scrw Term | 35 | 19873 | 35PAR36/H/SP5 | 12 | 12 | C-6 | 2.75 | | 4000 | | 250 | 3050 | 25000 | | 2a,2b,4f,4g,7a,9b,10c | Spotlight |
| | | | 19876 | 35PAR36/H/SP8 | 12 | 12 | C-6 | 2.75 | | 4000 | | 250 | 3050 | 8000 | | 2a,2b,4f,4g,7a,9b,10c | Spotlight |
| | | | 19877 | 35PAR36/H/FL30 | 12 | 12 | C-6 | 2.75 | | 4000 | | 250 | 3050 | 900 | | 2a,2b,4f,4g,7a,9b,10c | Floodlight |
| | | | 42072 | 35PAR36/H/WFL | 12 | 12 | C-6 | 2.75 | | 4000 | | 250 | 3050 | | | 2a,2b,4f,4g,7a,9b,10c | Wide Flood |
| | | 50 | 19878 | 50PAR36/H/SP5 | 12 | 12 | C-6 | 2.75 | | 4000 | | 400 | 3050 | 39000 | | 2a,2b,4f,4g,7a,9b,10c | Spotlight |
| | | | 19879 | 50PAR36/H/SP8 | 12 | 12 | C-6 | 2.75 | | 4000 | | 400 | 3050 | 10000 | | 2a,2b,4f,4g,7a,9b,10c | Spotlight |
| | | | 19880 | 50PAR36/H/FL30 | 12 | 12 | C-6 | 2.75 | | 4000 | | 400 | 3050 | 1300 | | 2a,2b,4f,4g,7a,9b,10c | Floodlight |
| | | | Halogen Reflector | | | | | | | | | | | | | | |
| HIR™ | | | | | | | | | | | | | | | | | |
| R20 | Med | 45 | 74204 | 45R20/H/HIR-TP6 | 120 | 6 | CC-8 | 3.54 | | 3000 | 2.7 | 490 | 2750 | | \$5.42 | — | Halogen Reflector |
| BR30 | Med | 45 | 74206 | 45BR30/H/HIR-TP6 | 120 | 6 | CC-8 | 5.37 | | 3000 | 2.7 | 640 | 2750 | | \$5.42 | 1a,1b,2a,2b,2e,4i,7a | Halogen Reflector |
| BR40 | Med | 45 | 74207 | 45BR40/H/HIR-TP6 | 120 | 6 | CC-8 | 6.56 | | 3000 | 2.7 | 740 | 2750 | | \$5.42 | 1a,1b,2a,2b,2e,4i,7a | Halogen Reflector |
| BR30 | Med | 65 | 75414 | 65BR30/H/RVL-TP | 120 | 6 | CC-8 | 5.37 | | 3000 | 2.7 | 485 | 2750 | | \$7.83 | 1a,1b,2a,2b,2e,4i,7a | Halogen Reflector |
| BR40 | Med | 65 | 77757 | 65BR40/H/HIR-TP6 | 120 | 6 | CC-8 | 6.56 | | 3000 | 2.7 | 1100 | 2800 | | \$7.83 | 1a,1b,2a,2b,2e,4i,7a | Halogen Reflector |
| A-Line/Decorative | | | | | | | | | | | | | | | | | |
| A-19 | | | | | | | | | | | | | | | | | |
|  | Med | 29 | 78795 | 29A/CL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 430 | 2850 | | \$3.49 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Clear, Halogen, 2-Pack |
| | | 29 | 62607 | 29A/CL/RVL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 325 | 2850 | | \$3.49 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Clear Reveal®, Halogen, 2-Pack |
| | | 29 | 63002 | 29A/W/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 430 | 2850 | | \$3.49 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Soft White, Halogen, 2-Pack |
| | | 29 | 66246 | 29A/W/H-4/12PK | 120 | 12 | CC-8 | 4.43 | | 1000 | 0.9 | 430 | 2850 | | \$3.49 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Soft White, Halogen, 4-Pack |
| | | 29 | 63006 | 29A/W/RVL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 325 | 2850 | | \$3.49 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Reveal®, Halogen, 2-Pack |
| | | 29 | 60285 | 29A/W/2X/H/4PK | 120 | 12 | CC-8 | 4.43 | | 2000 | 1.8 | 390 | 2800 | | \$3.49 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Modified Spectrum Soft White, Halogen, 4-Pack |
| | | 43 | 78796 | 43A/CL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 750 | 2900 | | \$5.18 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Clear, Halogen, 2-Pack |
| | | 43 | 62616 | 43A/CL/RVL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 565 | 2900 | | \$5.18 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Clear Reveal®, Halogen, 2-Pack |
| | | 43 | 63003 | 43A/W/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 620 | 2900 | | \$5.18 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Soft White, Halogen, 2-Pack |

* Based on 3 hours per day use.







** Based on 3 hours per day use, \$0.11 per Kwh

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | Filament Type | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Initial Lumens | Initial Color Temp | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|---|-----------|----------------|------------|-------------------|-------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|---------------------------------|---|---------------------------------|---|
| A-Line/Decorative (continued) | | | | | | | | | | | | | | | | | |
| A-19 (continued) | | | | | | | | | | | | | | | | | |
|  | Med | 43 | 66247 | 43A/W/H-4/12PK | 120 | 12 | CC-8 | 4.43 | | 1000 | 0.9 | 620 | 2900 | | \$5.18 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Soft White, Halogen, 4-Pack |
| | | 43 | 63007 | 43A/W/RVL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 565 | 2900 | | \$5.18 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Reveal®, Halogen, 2-Pack |
| | | 43 | 60071 | 43A/W/2X/H/4PK | 120 | 12 | CC-8 | 4.43 | | 2000 | 1.8 | 620 | 2750 | | \$5.18 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Modified Spectrum Soft White, Halogen, 4-Pack |
| | | 53 | 78797 | 53A/CL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 1050 | 2950 | | \$6.38 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Clear, Halogen, 2-Pack |
| | | 53 | 62617 | 53A/CL/RVL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 790 | 2950 | | \$6.38 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Clear Reveal®, Halogen, 2-Pack |
| | | 53 | 63004 | 53A/W/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 1050 | 2950 | | \$6.38 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Soft White, Halogen, 2-Pack |
| | | 53 | 66248 | 53A/W/H-4/12PK | 120 | 12 | CC-8 | 4.43 | | 1000 | 0.9 | 890 | 2950 | | \$6.38 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Soft White, Halogen, 4-Pack |
| | | 53 | 63008 | 53A/W/RVL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 790 | 3000 | | \$6.38 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Reveal®, Halogen, 2-Pack |
| | | 53 | 60070 | 53A/W/2X/H/4PK | 120 | 12 | CC-8 | 4.43 | | 2000 | 1.8 | 850 | 2750 | | \$6.38 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Modified Spectrum Soft White, Halogen, 4-Pack |
| | | 72 | 78798 | 72A/CL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 1490 | 3000 | | \$8.67 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Clear, Halogen, 2-Pack |
| | | 72 | 62618 | 72A/CL/RVL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 1120 | 3000 | | \$8.67 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Clear Reveal, Halogen, 2-Pack |
| | | 72 | 63005 | 72A/W/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 1270 | 3000 | | \$8.67 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Soft White, Halogen, 2-Pack |
| | | 72 | 66249 | 72A/W/H-4/12PK | 120 | 12 | CC-8 | 4.43 | | 1000 | 0.9 | 1270 | 3000 | | \$8.67 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Soft White, Halogen, 4-Pack |
| | | 72 | 63009 | 72A/W/RVL/H-2PK | 120 | 6 | CC-8 | 4.43 | | 1000 | 0.9 | 1120 | 3000 | | \$8.67 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Reveal®, Halogen, 2-Pack |
| 72 | 60035 | 72A/W/2X/H/4PK | 120 | 12 | CC-8 | 4.43 | | 2000 | 1.8 | 1270 | 2800 | | \$8.67 | 1a,2a,2b,2c,2e,4i,4j,9a,10b,10c | Modified Spectrum Soft White, Halogen, 4-Pack | | |
| A-21 | | | | | | | | | | | | | | | | | |
|  | 3C Med | 30/70/100 | 24699 | 30/100-HALOGEN | 120 | 6 | CC-8 | 5.25 | | 2500 | 2.3 | 300/1050/1370 | 2900 | | \$12.05 | 1a,2a,2b,2c,4i,4j,9a,10b,10c | 3-Way |
| | | 50/100/150 | 81590 | 50/150-HALOGEN | 120 | 6 | CC-8 | 5.25 | | 2500 | 2.3 | 700/1600/2300 | 2900 | | \$18.07 | 1a,2a,2b,2c,4i,4j,9a,10b,10c | 3-Way |
| | | 50/100/150 | 71367 | 50/150/H/RVL-TP6 | 120 | 6 | CC-8 | 5.25 | | 2500 | 2.3 | 560/1280/1840 | 2850 | | \$18.07 | 1a,2a,2b,2c,4i,4j,9a,10b,10c | Reveal®, 3-Way |
| | Med | 150 | 71364 | 150A/W/RL/HAL-TP6 | 120 | 6 | CC-8 | 5.25 | | 2000 | 1.8 | 2650 | 2900 | | \$18.07 | 1a,2a,2b,2c,4i,4j,9a,10b,10c | Reader |
| Traditional Decorative | | | | | | | | | | | | | | | | | |
|  | Cand | 25 | 16764 | 25BC/H/CD2 | 120 | 5 | CC-8 | 3.94 | 2.22 | 2250 | 2.1 | 280 | 2700 | | \$3.01 | 1a,1b,2a,2b,2e,4i,4j,9a,10b,10c | Carded Twin Pack, Chandelier |
| | Med | 25 | 16760 | 25BM/H/CD2 | 120 | 5 | CC-8 | 3.94 | 2.22 | 2250 | 2.1 | 260 | 2600 | | \$3.01 | 1a,1b,2a,2b,2e,4i,4j,9a,10b,10c | Carded Twin Pack |
| | Med | 29 | 60269 | 29BM/H/CD2 | 120 | 3 | CC-8 | 3.94 | | 1000 | 0.9 | 430 | 2850 | | \$3.49 | 1a,1b,2a,2b,2e,4i,4j,9a,10b,10c | Carded Twin Pack |
| | Cand | 40 | 16765 | 40BC/H/CD2 | 120 | 5 | CC-8 | 3.94 | 2.22 | 2250 | 2.1 | 485 | 2700 | | \$4.82 | 1a,1b,2a,2b,2e,4i,4j,9a,10b,10c | Carded Twin Pack, Chandelier |
| | Med | 40 | 16761 | 40BM/H/CD2 | 120 | 5 | CC-8 | 3.94 | 2.22 | 2250 | 2.1 | 485 | 2700 | | \$4.82 | 1a,1b,2a,2b,2e,4i,4j,9a,10b,10c | Carded Twin Pack |
| | Med | 43 | 60271 | 43BM/H/CD2 | 120 | 3 | CC-8 | 3.94 | | 1000 | 0.9 | 750 | 2900 | | \$5.18 | 1a,1b,2a,2b,2e,4i,4j,9a,10b,10c | Carded Twin Pack |
| CA9 | Med | 29 | 60273 | 29CAM/H/CD2 | 120 | 3 | CC-8 | 4.56 | | 1000 | 0.9 | 430 | 2850 | | \$3.49 | 1a,1b,2a,2b,2e,4i,4j,9a,10b,10c | Carded Twin Pack |
| CA9 | Med | 43 | 60276 | 43CAM/H/CD2 | 120 | 3 | CC-8 | 4.56 | | 1000 | 0.9 | 750 | 2900 | | \$5.18 | 1a,1b,2a,2b,2e,4i,4j,9a,10b,10c | Carded Twin Pack |
| Flame | | | | | | | | | | | | | | | | | |
|  | Med | 25 | 16766 | 25BFM/H/CD2 | 120 | 5 | CC-8 | 3.94 | 2.22 | 2250 | 2.1 | 280 | 2600 | | \$3.01 | 1a,1b,2a,2b,2e,4i,4j,9a,10b,10c | Carded Twin Pack |
| | | 40 | 16767 | 40BFM/H/CD2 | 120 | 5 | CC-8 | 3.94 | 2.22 | 2250 | 2.1 | 350 | 2500 | | \$4.82 | 1a,1b,2a,2b,2e,4i,4j,9a,10b,10c | Carded Twin Pack |

* Based on 3 hours per day use.
 ** Based on 3 hours per day use, \$0.11 per Kwh

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4. All warning and caution notices found at the end of this section (page 2-17).

Halogen Lamps

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | Filament Type | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Initial Lumens | Initial Color Temp | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|--|--------------|-------|------------------|------------------|-------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|--------|------------------------------------|---------------------------------|------------------------|
| A-Line/Decorative (continued) | | | | | | | | | | | | | | | | | |
| Globe | | | | | | | | | | | | | | | | | |
|  | Cand | 40 | 82131 | 40GC/CL/H-PQ2/3 | 120 | 6 | CC-8 | 3 | | 2250 | 2.1 | 415 | 2500 | | \$4.82 | 1a,1b,2a,2b,2e,4i,4j,7a,10b,10c | Clear, Halogen Globe |
| | | 60 | 82132 | 60GC/CL/H-PQ2/3 | 120 | 6 | CC-8 | 3 | | 2250 | 2.1 | 600 | 2500 | | \$7.23 | 1a,1b,2a,2b,2e,4i,4j,7a,10b,10c | Clear, Halogen Globe |
|  | Med | 40 | 82133 | 40GM/CL/H-PQ2/3 | 120 | 6 | CC-8 | 3 | | 2250 | 2.1 | 415 | 2700 | | \$4.82 | 1a,1b,2a,2b,2e,4i,4j,7a,10b,10c | Clear, Halogen Globe |
| | | 60 | 82134 | 60GM/CL/H-PQ2/3 | 120 | 6 | CC-8 | 3 | | 2250 | 2.1 | 650 | 2850 | | \$7.23 | 1a,1b,2a,2b,2e,4i,4j,7a,10b,10c | Clear, Halogen Globe |
|  | Med | 29 | 60100 | 29G25/H/CL | 120 | 3 | CC-8 | 4.45 | | 1000 | 0.9 | 430 | 2850 | | \$3.49 | 1a,1b,2a,2b,2e,4i,4j,9c,10b,10c | Halogen, Clear Globe |
| | | 60199 | 29G25/H/W | 120 | 3 | CC-8 | 4.45 | | 1000 | 0.9 | 430 | 2850 | | \$3.49 | 1a,1b,2a,2b,2e,4i,4j,9c,10b,10c | Halogen, White Globe | |
| | 40 | 82140 | 40G25/CL/H/RVL | 120 | 6 | CC-8 | 4.50 | 2.60 | 2250 | 2.1 | 470 | 2550 | | \$4.82 | 1a,1b,2a,2b,2e,4i,4j,9c,10b,10c | Halogen, Clear Globe | |
| | | 16774 | 40G25/H/CRYSTAL | 120 | 6 | CC-8 | 4.45 | 2.60 | 2250 | 2.1 | 520 | 2700 | | \$4.82 | 1a,1b,2a,2b,2e,4i,4j,9c,10b,10c | Crystal Clear Globe | |
| | | 71373 | 40G25H/CRY/RV-TP | 120 | 6 | CC-8 | 4.45 | 2.56 | 2250 | 2.1 | 390 | 2550 | | \$4.82 | 1a,1b,2a,2b,2e,4i,4j,7a,9c,10b,10c | Reveal®, Crystal Globe | |
| | 43 | 60076 | 43G25/H/CL | 120 | 3 | CC-8 | 4.45 | | 1000 | 0.9 | 750 | 2900 | | \$5.18 | 1a,1b,2a,2b,2e,4i,4j,9c,10b,10c | Halogen, Clear Globe | |
| | | 60109 | 43G25/H/W | 120 | 3 | CC-8 | 4.45 | | 1000 | 0.9 | 750 | 2900 | | \$5.18 | 1a,1b,2a,2b,2e,4i,4j,9c,10b,10c | Halogen, White Globe | |
| | 60 | 82141 | 60G25/CL/H/RVL | 120 | 6 | CC-8 | 4.50 | 2.60 | 2250 | 2.1 | 675 | 2850 | | \$7.23 | 1a,1b,2a,2b,2e,4i,4j,9c,10b,10c | Reveal®, Halogen Globe | |
| T-Shape | | | | | | | | | | | | | | | | | |
|  | Med | 40 | 16777 | 40T10/H/CD | 120 | 4 | CC-8 | 5.04 | 2.56 | 2250 | 2.1 | 520 | 2700 | | \$4.82 | 1a,1b,2a,2b,2e,4i,4j,9c,10b,10c | Carded |
| | | 60 | 16778 | 60T10/H/CD | 120 | 4 | CC-8 | 5.04 | 2.56 | 2250 | 2.1 | 900 | 2900 | | \$7.23 | 1a,1b,2a,2b,2e,4i,4j,9c,10b,10c | Carded |
| Landscape Lighting | | | | | | | | | | | | | | | | | |
| MR16 | 2-Pin GX5-3 | 20 | 71485 | Q20MR16/LAND-CD | 12 | 3 | C-6 | 1.88 | | 2000 | | 275 | 2900 | 450 | \$2.41 | | Outdoor Floodlight |
| T3 | 2-Pin G4 | 20 | 71495 | Q20T3/LAND-CD2 | 12 | 25 | C-8 | 1.25 | 0.75 | 2000 | | 350 | 2750 | | \$2.41 | | Outdoor |
| | 2-Pin GY6.35 | 50 | 71496 | Q50T3/LAND-CD2 | 12 | 25 | C-8 | 1.75 | 1.13 | 3000 | | 900 | 2950 | | \$6.02 | | Outdoor |
| AR70 | | | | | | | | | | | | | | | | | |
| AR70 | DCBay Ba15d | 50 | 72255 | 50AR70/SP8 | 12 | 10 | C-8 | 2.64 | | 3000 | | | 2800 | 12500 | | 2e,4a,4e,4f,9a,9d,10b,10c | Spotlight |
| AR111 | | | | | | | | | | | | | | | | | |
|  | G53 | 35 | 72253 | 35AR111/SP4 | 12 | 10 | C-8 | 2.64 | | 3000 | | | 2800 | 22000 | | 2a,4a,4e,4f,9a,9d,10b,10c | Narrow Spotlight |
| | | 35 | 97532 | 35AR111/SP8 | 12 | 10 | C-8 | 2.64 | | 3000 | | | 2800 | 14000 | | 2a,2j,4a,4e,4f,9a,9d,10b,10c | Spotlight |
| | | 35 | 97533 | 35AR111/FL24 | 12 | 10 | C-8 | 2.64 | | 3000 | | | 2800 | 2500 | | 2a,2j,4a,4e,4f,9a,9d,10b,10c | Narrow Floodlight |
| | | 50 | 72254 | 50AR111/SP4 | 12 | 10 | C-8 | 2.64 | | 3000 | | | 2850 | 25000 | | 2a,4a,4e,4f,9a,9d,10b,10c | Narrow Spotlight |
| | | 50 | 97534 | 50AR111/SP8 | 12 | 10 | C-8 | 2.64 | | 3000 | | | 2800 | 17800 | | 2a,2j,4a,4e,4f,9a,9d,10b,10c | Spotlight |
| | | 50 | 97535 | 50AR111/FL24 | 12 | 10 | C-8 | 2.64 | | 3000 | | | 2800 | 3500 | | 2a,2j,4a,4e,4f,9a,9d,10b,10c | Narrow Floodlight |
| | | 75 | 97536 | 75AR111/SP8 | 12 | 10 | C-8 | 2.64 | | 3000 | | | 2900 | 23500 | | 2a,2j,4a,4e,4f,9a,9d,10b,10c | Spotlight |
| | | 75 | 97537 | 75AR111/FL24 | 12 | 10 | C-8 | 2.64 | | 3000 | | | 2900 | 5300 | | 2a,2j,4a,4e,4f,9a,9d,10b,10c | Narrow Floodlight |
| | | 75 | 97538 | 75AR111/FL45 | 12 | 10 | C-8 | 2.64 | | 3000 | | | 2900 | 1700 | | 2a,2j,4a,4e,4f,9a,9d,10b,10c | Wide Floodlight |
| MR | | | | | | | | | | | | | | | | | |
| Turn & Lock ConstantColor® | | | | | | | | | | | | | | | | | |
|  | TAL GU7 | 35 | 81282 | 35MR16/6/TL-AX | 12 | 10 | C-8 | 1.88 | | 3500 | | 475 | 3200 | 8500 | | | |
| | | 35 | 78816 | 35MR16/Q/8/TL-AX | 12 | 10 | C-8 | 2.00 | | 3500 | | | 2900 | | | 2a,2b,4f,7a,9a,10b,10c | Narrow Spot |
| | | 50 | 30901 | 50MR16/Q/10/TL | 12 | 10 | C-6 | 2.00 | | 3500 | | | 3000 | 10800 | | 2a,2b,4f,7a,9a,10b,10c | Narrow Spot |
| | | 50 | 30900 | 50MR16/Q/20/TL | 12 | 10 | C-6 | 2.00 | | 3500 | | | 3000 | 3330 | | 2a,2b,4f,7a,9a,10b,10c | Narrow Flood |
| | | 50 | 30899 | 50MR16/Q/40/TL | 12 | 10 | C-6 | 2.00 | | 3500 | | | 3000 | 1395 | | 2a,2b,4f,7a,9a,10b,10c | Floodlight |


* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh


| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | Filament Type | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Initial Lumens | Initial Color Temp | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|------------|-----------|-------|------------|-------------|-------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|------|--------------------------|-----------------------------|------------------------|
|------------|-----------|-------|------------|-------------|-------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|------|--------------------------|-----------------------------|------------------------|

MR (continued)


ConstantColor® Precise™ Cover Glass MR16

| | | | | | | | | | | | | | | | | | |
|---|-------------|----|-------|------------------|----|----|------|------|--|------|-----|-----|------|-------|--------|-----------------|---------------------------------|
|  | 2-Pin GU5.3 | 20 | 20858 | Q20MR16C/CG15ESX | 12 | 20 | C-6 | 1.88 | | 5000 | 4.6 | 225 | 2900 | 3150 | | 2a,2b,4f,9a,10c | Narrow Spot, ANSI: ESX |
| | | 20 | 20857 | Q20MR16C/CG40BAB | 12 | 20 | C-6 | 1.88 | | 5000 | 4.6 | 225 | 2900 | 475 | \$2.41 | 2a,2b,4f,9a,10c | Flood, ANSI: BAB |
| | | 20 | 21456 | FAM6Q20MR16NSCCG | 12 | 1 | C-6 | 1.88 | | 5000 | 4.6 | | 2900 | 3350 | \$2.41 | 2a,2b,4f,9a,10c | Narrow Spot, Carved, ANSI: ESX |
| | | 20 | 21455 | FAM6Q20MR16FLCCG | 12 | 1 | C-6 | 1.88 | | 5000 | 4.6 | | 2900 | 490 | \$2.41 | 2a,2b,4f,9a,10c | Flood, Carved, ANSI: BAB |
| | | 35 | 20864 | Q35MR16C/CG12 | 12 | 20 | C-6 | 1.88 | | 5000 | | | 3000 | 7500 | | 2a,2b,4f,9a,10c | Narrow Spot, ANSI: FRB |
| | | 35 | 20860 | Q35MR16C/CG20 | 12 | 20 | C-6 | 1.88 | | 5000 | 4.6 | 520 | 3000 | 3200 | \$4.22 | 2a,2b,4f,9a,10c | Spot, ANSI: FRA |
| | | 35 | 20859 | Q35MR16C/CG40 | 12 | 20 | C-6 | 1.88 | | 5000 | 4.6 | 520 | 3000 | 900 | \$4.22 | 2a,2b,4f,9a,10c | Flood, ANSI: FMW |
| | | 35 | 41487 | Q35MR16/CCG40 | 24 | 20 | CC-6 | 1.88 | | 4000 | | | 2950 | 920 | | 2a,2b,4f,9a,10c | Floodlight |
| | | 50 | 20872 | Q50MR16C/CG15 | 12 | 20 | C-6 | 1.88 | | 6000 | | | 3050 | 8400 | | 2a,2b,4f,9a,10c | Narrow Spot, ANSI: EXT |
| | | 50 | 20871 | Q50MR16C/CG25 | 12 | 20 | C-6 | 1.88 | | 6000 | | | 3050 | 2900 | | 2a,2b,4f,9a,10c | Narrow Spot, ANSI: EXZ |
| | | 50 | 20867 | Q50MR16C/CG40 | 12 | 20 | C-6 | 1.88 | | 6000 | | | 3050 | 1500 | | 2a,2b,4f,9a,10c | Flood, ANSI: EXN |
| | | 50 | 20865 | Q50MR16C/CG55 | 12 | 20 | C-6 | 1.88 | | 6000 | 5.5 | 775 | 3050 | 850 | \$6.02 | 2a,2b,4f,9a,10c | Wide Flood, ANSI: FNV |
| | | 50 | 41488 | Q50MR16/CG15 | 24 | 20 | CC-6 | 1.88 | | 2000 | 1.8 | 575 | 2950 | 8400 | \$6.02 | 2a,2b,4f,9a,10c | Narrow Spot |
| | | 50 | 41489 | Q50MR16/CG40 | 24 | 20 | CC-6 | 1.88 | | 2000 | 1.8 | 615 | 2950 | 1570 | \$6.02 | 2a,2b,4f,9a,10c | Floodlight |
| | | 50 | 21458 | FAM6Q50MR16NSCCG | 12 | 1 | C-6 | 1.88 | | 6000 | | | 3050 | 9500 | | 2a,2b,4f,9a,10c | Narrow Spot, Carved, ANSI: EXT |
| | | 50 | 21457 | FAM6Q50MR16FLCCG | 12 | 1 | C-6 | 1.88 | | 6000 | | | 3050 | 1720 | | 2a,2b,4f,9a,10c | Flood, 3050K, Carved, ANSI: EXN |
| | | 71 | 20876 | Q71MR16C/CG15 | 12 | 20 | C-6 | 1.88 | | 4000 | | | 3050 | 10800 | | 2a,2b,4f,9a,10c | Narrow Spot, ANSI: EYF |
| | | 71 | 20874 | Q71MR16C/CG25 | 12 | 20 | C-6 | 1.88 | | 4000 | | | 3050 | 4550 | | 2a,2b,4f,9a,10c | Narrow Spot, ANSI: EYJ |
| | | 71 | 20873 | Q71MR16C/CG40 | 12 | 20 | C-6 | 1.88 | | 4000 | | | 3050 | 2000 | | 2a,2b,4f,9a,10c | Flood, ANSI: EYC |

ConstantColor® Precise™ MR16

| | | | | | | | | | | | | | | | | | |
|--|-------------|----|-------|------------------|----|----|------|------|--|------|-----|------|------|-------|--------|---------------------------------|-----------------------------|
|  | 2-Pin GX5.3 | 20 | 20816 | Q20MR16/C/VNSP7 | 12 | 20 | CC-6 | 1.88 | | 3000 | | | 2900 | 7400 | | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Very Narrow Spot, ANSI: EZX |
| | | 20 | 20815 | Q20MR16/C/VNSP15 | 12 | 20 | C-6 | 1.88 | | 5000 | | | 2900 | 3750 | | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Narrow Spot, ANSI: ESX |
| | | 20 | 20814 | Q20MR16C/FL40 | 12 | 20 | C-6 | 1.88 | | 5000 | 4.6 | 240 | 2900 | 525 | \$2.41 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Flood, ANSI: BAB |
| | | 35 | 20826 | Q35MR16C/SP20 | 12 | 20 | C-6 | 1.88 | | 5000 | 4.6 | 520 | 3000 | 3900 | \$4.22 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Spot, ANSI: FRA |
| | | 35 | 20825 | Q35MR16C/FL40 | 12 | 20 | C-6 | 1.88 | | 5000 | 4.6 | 520 | 3000 | 1000 | \$4.22 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Flood, ANSI: FMW |
| | | 42 | 20830 | Q42MR16/C/VNSP9 | 12 | 20 | CC-6 | 1.88 | | 3500 | | | 3000 | 12300 | | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Very Narrow Spot, ANSI: EYZ |
| | | 50 | 20839 | Q50MR16C/VNSP15 | 12 | 20 | C-6 | 1.88 | | 6000 | 5.5 | 750 | 3050 | 9100 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Narrow Spot, ANSI: EXT |
| | | 50 | 20835 | Q50MR16C/NFL25 | 12 | 20 | C-6 | 1.88 | | 6000 | 5.5 | 800 | 3050 | 3200 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Narrow Flood, ANSI: EXZ |
| | | 50 | 20834 | Q50MR16C/NFL30 | 12 | 20 | C-6 | 1.88 | | 6000 | 5.5 | 850 | 3050 | 2500 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Narrow Flood, ANSI: EXK |
| | | 50 | 20833 | Q50MR16C/FL40 | 12 | 20 | C-6 | 1.88 | | 6000 | 5.5 | 800 | 3050 | 1700 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Flood, ANSI: EXN |
| | | 50 | 20832 | Q50MR16C/WFL55 | 12 | 20 | C-6 | 1.88 | | 6000 | 5.5 | 825 | 3050 | 900 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Wide Flood, ANSI: FNV |
| | | 71 | 20843 | Q71MR16C/VNSP15 | 12 | 20 | C-6 | 1.88 | | 4000 | 3.7 | 1125 | 3050 | 11500 | \$8.55 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Narrow Spot, ANSI: EYF |
| | | 71 | 20841 | Q71MR16C/NFL25 | 12 | 20 | C-6 | 1.88 | | 4000 | 3.7 | 1175 | 3050 | 5500 | \$8.55 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Narrow Flood, ANSI: EYJ |
| | | 71 | 20840 | Q71MR16C/FL40 | 12 | 20 | C-6 | 1.88 | | 4000 | 3.7 | 1200 | 3050 | 2200 | \$8.55 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Flood, ANSI: EYC |

Precise™ Cover Glass IR MR16

| | | | | | | | | | | | | | | | | | |
|---|-------------|------|-------------|------------------|-------|------------------|-----|------|-----|------|--|------|------|-------|------|-----------------|--------------|
|  | 2-Pin GU5.3 | 20 | 77900 | Q20MR16HIR/CCG10 | 12 | 20 | C-8 | 1.77 | | 5000 | | | 2900 | 6000 | | 2a,2b,4f,9a,10c | Narrow Spot |
| | | 20 | 77901 | Q20MR16HIR/CCG24 | 12 | 20 | C-8 | 1.77 | | 5000 | | | 2900 | 2300 | | 2a,2b,4f,9a,10c | Narrow Flood |
| | | 20 | 77902 | Q20MR16HIR/CCG35 | 12 | 20 | C-8 | 1.77 | | 5000 | | | 2900 | 1000 | | 2a,2b,4f,9a,10c | Flood |
| | | 35 | 77904 | Q35MR16HIR/CCG10 | 12 | 20 | C-8 | 1.77 | | 5000 | | | 2950 | 12000 | | 2a,2b,4f,9a,10c | Narrow Spot |
| | | 35 | 77905 | Q35MR16HIR/CCG24 | 12 | 20 | C-8 | 1.77 | | 5000 | | | 2950 | 4200 | | 2a,2b,4f,9a,10c | Narrow Flood |
| | | 35 | 77906 | Q35MR16HIR/CCG35 | 12 | 20 | C-8 | 1.77 | | 5000 | | | 2950 | 2000 | | 2a,2b,4f,9a,10c | Flood |
| | | 35 | 79233 | Q35MR16HIR/CCG55 | 12 | 20 | C-8 | 1.77 | | 5000 | | | 2950 | 1000 | | 2a,2b,4f,9a,10c | Wide Flood |
| | | 45 | 77907 | Q45MR16HIR/CCG10 | 12 | 20 | C-8 | 1.77 | | 5000 | | | 3000 | 14000 | | 2a,2b,4f,9a,10c | Narrow Spot |
| | | 45 | 77908 | Q45MR16HIR/CCG24 | 12 | 20 | C-8 | 1.77 | | 5000 | | | 3000 | 5200 | | 2a,2b,4f,9a,10c | Narrow Flood |
| | | MR16 | 2-Pin GX5.3 | 45 | 77909 | Q45MR16HIR/CCG35 | 12 | 20 | C-8 | 1.77 | | 5000 | | | 3000 | 2300 | |








* Based on 3 hours per day use.
 ** Based on 3 hours per day use, \$0.11 per Kwh

Halogen Lamps

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | Filament Type | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Initial Lumens | Initial Color Temp | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|---|-------------|-------|------------|-------------------|-------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|------|--------------------------|----------------------------------|-----------------------------|
| MR (continued) | | | | | | | | | | | | | | | | | |
| Standard MR16 | | | | | | | | | | | | | | | | | |
|  | 2-Pin GX5.3 | 20 | 25481 | Q20MR16/SP | 12 | 20 | C-6 | 1.88 | | 2000 | 1.8 | 275 | 2900 | 3500 | \$2.41 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Spot, ANSI: ESX |
| | | 20 | 25480 | Q20MR16/FL | 12 | 20 | C-6 | 1.88 | | 2000 | 1.8 | 275 | 2900 | 500 | \$2.41 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Flood, ANSI: BAB |
| | | 20 | 85290 | Q20MR16/SP-PQ3/6 | 12 | 6 | C-6 | 1.88 | | 2000 | 1.8 | 290 | 2900 | 3500 | \$2.41 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Spotlight, ANSI: ESX |
| | | 20 | 85289 | Q20MR16/FL-PQ3/6 | 12 | 6 | C-6 | 1.88 | | 2000 | 1.8 | 290 | 2900 | 500 | \$2.41 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Floodlight ANSI: BAB |
| | | 50 | 25483 | Q50MR16/SP | 12 | 20 | C-6 | 1.88 | | 2000 | 1.8 | 890 | 2900 | 9500 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Spot, ANSI: EXT |
| | | 50 | 25482 | Q50MR16/FL | 12 | 20 | C-6 | 1.88 | | 2000 | 1.8 | 890 | 2900 | 1500 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Flood, ANSI: EXN |
| | | 50 | 85296 | Q50MR16/FL-PQ3/6 | 12 | 6 | C-6 | 1.88 | | 2000 | 1.8 | 890 | 2900 | 9500 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Flood, ANSI: EXN |
| | | 50 | 85297 | Q50MR16/SP-PQ3/6 | 12 | 6 | C-6 | 1.88 | | 2000 | 1.8 | 890 | 2900 | 1500 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Spot, ANSI: EXT |
| Standard MR16 Cover Glass | | | | | | | | | | | | | | | | | |
|  | 2-Pin GX5.3 | 20 | 81763 | Q20MR16CGFLCD-BA | 12 | 6 | C-6 | 1.88 | | 2000 | 1.8 | 275 | 2900 | 450 | \$2.41 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Flood, Basic |
| | | 20 | 81765 | Q20MR16CGSPCD-BA | 12 | 6 | C-6 | 1.88 | | 2000 | 1.8 | 275 | 2900 | 3150 | \$2.41 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Spot, Basic |
| | | 35 | 81768 | Q35MR16CGFLCD-BA | 12 | 6 | C-6 | 1.88 | | 2000 | 1.8 | 540 | 2900 | 840 | \$4.22 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Flood, Basic |
| | | 50 | 81770 | Q50MR16CGFLCD-BA | 12 | 6 | C-6 | 1.88 | | 2000 | 1.8 | 850 | 2900 | 1350 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Flood, Basic |
| | | 50 | 81771 | Q50MR16CGSPCD-BA | 12 | 6 | C-6 | 1.88 | | 2000 | 1.8 | 850 | 2900 | 8550 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Spot, Basic |
|  | 2-Pin GX5.3 | 50 | 82110 | Q50MR16FCCGRV-CD | 12 | 6 | C-6 | 1.88 | | 3000 | 2.7 | 650 | 2950 | 1750 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Reveal®, Floodlight, Carded |
| | | 50 | 82111 | Q50MR16SCCGRV-CD | 12 | 6 | C-6 | 1.88 | | 3000 | 2.7 | 650 | 2950 | 9000 | \$6.02 | 2a,2j,4a,4c,4e,4f,9a,9d,10b,10c | Reveal®, Spotlight, Carded |
| Standard MR11 | | | | | | | | | | | | | | | | | |
|  | 2-Pin G4 | 20 | 30773 | Q20MR11/NFL30 | 12 | 10 | C-6 | 1.38 | | 3500 | | | 2900 | 600 | | 2a,2b,4c,4e,4f,9a,9d,10b,10c,11a | Narrow Flood, ANSI: FTD |
| | | 20 | 25197 | FAM6Q20MR11NF/CD | 12 | 1 | C-6 | 1.38 | | 3500 | | | 2900 | 600 | | 2a,2b,4c,4e,4f,9a,9d,10b,10c,11a | Narrow Flood, ANSI: FTD |
| | | 35 | 30774 | Q35MR11SP20(FTF) | 12 | 10 | C-6 | 1.38 | | 3500 | | | 2900 | 3000 | | 2a,2b,4c,4e,4f,9a,9d,10b,10c,11a | Spot, ANSI: FTF |
| | | 35 | 30890 | Q35MR11NFL30(FTH) | 12 | 10 | C-6 | 1.38 | | 3500 | | | 2900 | 1300 | | 2a,2b,4c,4e,4f,9a,9d,10b,10c,11a | Narrow Flood, ANSI: FTH |
| | | 35 | 41483 | Q35MR11/CG12 24 | 24 | 50 | C-6 | 1.38 | | 2000 | | | 2950 | 4100 | | 2a,2b,4c,4f,9a,10c | Spot |
| 120V GU10 | | | | | | | | | | | | | | | | | |
|  | GU10 | 20 | 16753 | Q20GU10/FL/CD | 120 | 5 | CC-2V | 2.13 | | 2000 | 1.8 | 80 | 2600 | 230 | \$2.41 | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Flood Carded |
| | | 35 | 16752 | Q35GU10/FL/CD | 120 | 5 | CC-2V | 2.13 | | 3000 | 2.7 | 200 | 2650 | 500 | \$4.22 | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Flood Carded |
| | | 50 | 16751 | Q50GU10/FL/CD | 120 | 5 | CC-2V | 2.13 | | 3000 | 2.7 | 400 | 2750 | 1000 | \$6.02 | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Flood Carded |
| | | 50 | 82143 | Q50GU10FL/RVL-CD | 120 | 6 | CC-2V | 2.13 | | 3000 | 2.7 | 400 | 2750 | 400 | \$6.02 | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Reveal®, Floodlight, Carded |
| Quartz Halogen | | | | | | | | | | | | | | | | | |
| Low Voltage | | | | | | | | | | | | | | | | | |
|  | 2-Pin G4 | 5 | 42959 | Q5T3/CL | 12 | 100 | C-6 | 1.25 cm | 0.75 | 2000 | 1.8 | 60 | | | \$0.60 | 2a,2j,4c,4e,4f,9a,9d,10b,10c | Clear |
| | | 10 | 34674 | Q10T3/CL | 12 | 100 | C-6 | 1.25 cm | 0.75 | 2000 | 1.8 | 140 | | | \$1.20 | | Clear |
| | | 10 | 97668 | Q10T3/CL/SCD-5PK | 12 | 100 | C-6 | 1.25 cm | 0.75 | 2000 | 1.8 | 140 | | | \$1.20 | 2a,2j,4c,4e,4f,9a,9d,10b,10c | Display lights, Small Card |
| | | 20 | 34715 | Q20T2.5/12V/CL | 12 | 100 | C-6 | 1.25 cm | 0.75 | 2000 | 1.8 | 350 | | | \$2.41 | | Clear, 12V |
| | | 20 | 97669 | Q20T3/CL/SCD-5PK | 12 | 25 | C-6 | 1.25 cm | 0.75 | 2000 | 1.8 | 350 | | | \$2.41 | 2a,2j,4c,4e,4f,9a,9d,10b,10c | Display lights, Small Card |





* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | Filament Type | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Initial Lumens | Initial Color Temp | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|---|---------------|-------|------------|------------------|---------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|------|--------------------------|--|------------------------|
| Quartz Halogen (continued) | | | | | | | | | | | | | | | | | |
| Low Voltage (continued) | | | | | | | | | | | | | | | | | |
|  | 2-Pin GY6.35 | 35 | 34708 | Q35T3/12V/CL | 12 | 100 | C-6 | 1.75 cm | | 2000 | 1.8 | 550 | | | \$4.22 | 2a,2j,4c,4e,4f,9a,9d,10b,10c | Clear, 12V |
| | | 35 | 48503 | Q35T3/CL/CD 5PK | 12 | 25 | C-6 | 1.75 cm | | 2000 | 1.8 | 550 | | | \$4.22 | 2a,2j,4c,4e,4f,9a,9d,10b,10c | Clear Carded |
| | | 50 | 34702 | Q50T3/12V/CL | 12 | 100 | C-6 | 1.75 cm | | 2000 | 1.8 | 850 | | | \$6.02 | 2a,2j,4c,4e,4f,9a,9d,10b,10c | Clear, 12V |
|  | 2-Pin GY6.35 | 50 | 97670 | Q50T3/CL/SCD-5PK | 12 | 25 | C-6 | 1.75 cm | 1.13 | 2000 | 1.8 | 950 | | | \$6.02 | 2a,2j,4c,4e,4f,9a,9d,10b,10c | Display lights |
| | | 75 | 19377 | Q75T4/CL/CD 5PK | 12 | 25 | C-6 | 1.75 cm | 1.13 | 2000 | 1.8 | 1400 | | | \$9.03 | 2a,2j,4c,4e,4f,9a,9d,10b,10c | Clear, Carded |
|  | 2-Pin GY6.35 | 100 | 34676 | Q100T3/12V/CL | 12 | 100 | CC-6 | 1.75 cm | | 2000 | 1.8 | 2350 | | | \$12.05 | 2a,2j,4c,4e,4f,9a,9d,10b,10c | Clear, 12V |
| | | 100 | 34663 | Q100T3/24V/CL | 24 | 100 | CC-6 | 1.75 cm | | 2000 | 1.8 | 2000 | | | \$12.05 | 2a,2j,4c,4e,4f,9a,9d,10b,10c | Clear, 24V |
| High Voltage | | | | | | | | | | | | | | | | | |
|  | 2-Pin G8 | 25 | 97664 | Q25G8/SCD2 | 120 | 5 | CC-2V | 1.59 | 1.04 | 1500 | 1.4 | 240 | 2600 | | \$3.01 | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Small Card, Twin Pack |
| | | 35 | 48428 | Q35G8/CD2 | 120 | 5 | CC-2V | 1.77 | 1.34 | 1500 | 1.4 | 350 | 2600 | | \$4.22 | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Carded |
| | | 50 | 21941 | Q50G8/CD | 120 | 5 | CC-2V | 1.77 | 1.33 | 1300 | 1.2 | 700 | 2750 | | \$6.02 | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Carded |
| | | 50 | 97665 | Q50G8/SCD | 120 | 5 | CC-2V | 1.77 | 1.33 | 1300 | 1.2 | 700 | 2750 | | \$6.02 | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Small Card |
| | | 50 | 72868 | Q50G8/SCD2-PK5 | 120 | 5 | CC-2V | 1.77 | 1.33 | 1300 | 1.2 | 700 | 2750 | | \$6.02 | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Small Card, Twin Pack |
| | | 75 | 97666 | Q75G8/SCD | 120 | 5 | CC-2V | 1.77 | 1.34 | 1500 | 1.4 | 900 | 2850 | | \$9.03 | 1a,2a,2b,2e,4f,4i,7a,9a,10b,10c | Small Card |
| | | 75 | 47801 | Q75G8/CD | 120 | 5 | CC-2V | 1.77 | 1.34 | 1500 | 1.4 | 900 | 2850 | | \$9.03 | 1a,2a,2b,2e,4f,4i,7a,9a,10b,10c | Carded |
| | | 100 | 97667 | Q100G8/SCD | 120 | 5 | CC-2V | 1.77 | 1.34 | 1500 | 1.4 | 1300 | 2900 | | \$12.05 | 1a,2a,2b,2e,4f,4i,7a,9a,10b,10c | Small Card |
| Quartzline® | | | | | | | | | | | | | | | | | |
| HIR™ Recessed Single Contact (R7s) | | | | | | | | | | | | | | | | | |
|  | R7s | 350 | 13894 | Q350T3/CL/HIR | 120 | 6 | C-8 | 4.69 | 2.25 | 2000 | | 10000 | 3075 | | | 1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b | IR, Clear, Horizontal |
| Halogen G9 | | | | | | | | | | | | | | | | | |
|  | G9 | 25 | 16754 | Q25G9/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 3000 | | 240 | 6250 | | | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Carded |
| | | 25 | 81300 | Q25G9/F/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 3000 | | | | | | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Frosted, Carded |
| | | 40 | 16755 | Q40G9/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 3000 | | 480 | 2750 | | | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Carded |
| | | 40 | 81301 | Q40G9/F/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 3000 | | | | | | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Frosted, Carded |
| | | 60 | 16756 | Q60G9/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 3000 | | 780 | 2800 | | | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Carded |
| | | 60 | 81468 | Q60G9/F/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 3000 | | | | | | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Frosted, Carded |
| | | 75 | 16759 | Q75G9/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 3000 | | 1100 | 2850 | | | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Carded |
| | | 75 | 81469 | Q75G9/F/CD | 120 | 5 | CC-8 | 1.77 | 1.26 | 3000 | | | | | | 1a,2a,2b,2e,4f,4i,9a,10b,10c | Frosted, Carded |
| Halogen Double Contact Bayonet (BA15d) | | | | | | | | | | | | | | | | | |
|  | D C Bay BA15d | 100 | 16451 | Q100DC | 120 | 6 | CC-8 | 2.44 | 1.38 | 2000 | | 1550 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Frosted |
| | | 100 | 15508 | Q100CL/DC | 120 | 6 | CC-8 | 2.44 | 1.38 | 2000 | | 1600 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Clear |
| | | 100 | 44386 | Q100CL/DC/2V | 120 | 6 | CC-2V | 2.44 | 1.38 | 750 h | | 1800 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Clear |
| | | 150 | 44653 | Q150DC | 120 | 6 | CC-8 | 2.50 | 1.38 | 2000 | | 2700 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Frosted |
| | | 150 | 43693 | Q150CL/DC | 120 | 6 | CC-8 | 2.50 | 1.38 | 2000 | | 2800 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Clear |
| | | 150 | 44384 | Q150CL/DC/2V | 120 | 6 | CC-2V | 2.44 | 1.38 | 1000 | | 2800 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Clear |
| | | 250 | 43701 | Q250DC | 120 | 6 | CC-8 | 3.00 | 1.63 | 2000 | | 4850 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Frosted |
| | | 250 | 43702 | Q250DC | 130/120 | 6 | CC-8 | 3.00 | 1.63 | 2000 | | 4850 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Frosted |







* Based on 3 hours per day use.
 ** Based on 3 hours per day use, \$0.11 per Kwh

Halogen Lamps

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | Filament Type | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Initial Lumens | Initial Color Temp | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|--|---------------|-------|------------|--------------------|---------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|------|--------------------------|--|---|
| Quartzline® (continued) | | | | | | | | | | | | | | | | | |
| Halogen Double Contact Bayonet (BA15d) (continued) | | | | | | | | | | | | | | | | | |
|  | D C Bay BA15d | 250 | 43697 | Q250CL/DC | 120 | 6 | CC-8 | 3.00 | 1.63 | 2000 | | 5000 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Clear |
| | | 250 | 43698 | Q250CL/DC | 130/120 | 6 | CC-8 | 3.00 | 1.63 | 2000 | | 5000 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Clear |
| | | 500 | 43709 | Q500DC | 120 | 6 | CC-8 | 3.44 | 2.13 | 2000 | | 10100 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Frosted |
| | | 500 | 43710 | Q500CL/DC | 120 | 6 | CC-8 | 3.44 | 2.13 | 2000 | | 10450 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Clear |
| Halogen Recessed Single Contact (R7s) | | | | | | | | | | | | | | | | | |
|  | R7s | 100 | 73286 | Q100T3/SCD-5PK | 210 | 5 | C-8 | 3.13 | 1.25 | 1500 | | 1650 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,11a | Torchiere, Motion-Sensing and Security, Small Card |
| | | 100 | 22489 | Q100T3/CL/CD 5PK | 210 | 60 | C-8 | 3.13 | 1.25 | 1500 | | 1650 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Horizontal, Carded |
| | | 150 | 27449 | Q150T3/117/CL/CD | 120 | 60 | C-8 | 4.69 | 2.25 | 1500 | | 2400 | 2950 | | | 1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Horizontal, Carded |
| | | 150 | 19378 | Q150T3/CL/CD 5PK | 120 | 60 | C-8 | 3.13 | 1.25 | 1500 | | 2400 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Horizontal, Carded |
| | | 150 | 73287 | Q150T3/HD/SCD2-5PK | 120 | 5 | C-8 | 3.13 | 1.25 | 2000 | | 2400 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,11a | Torchiere, Motion-Sensing and Security, Small Card |
|  | R7s | 250 | 22865 | Q250T3/CL-6PK | 120 | 144 | C-8 | 3.13 | 1.25 | 1500 | | 4000 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Horizontal |
| | | 250 | 22121 | Q250T3/CL/CD 5PK | 120 | 60 | C-8 | 3.13 | 1.13 | 1500 | | 4000 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Carded |
| | | 300 | 43703 | Q300T3/CL-6PK | 120 | 144 | C-8 | 4.69 | 2.25 | 2000 | | 5950 | 2950 | | | 1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Horizontal |
| | | 300 | 19379 | Q300T3/CL/CD 5PK | 120 | 60 | C-8 | 4.69 | 2.25 | 2000 | | 5950 | 2950 | | | 1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Horizontal, Carded |
| | | 300 | 27447 | Q300T3CL/CD2-5PK | 120 | 60 | C-8 | 4.69 | 2.25 | 2000 | | 5950 | 2950 | | | 1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Horizontal, Carded |
| | | 300 | 97673 | Q300T3/HD/SCD2 | 120 | 25 | C-8 | 4.69 | 2.25 | 2000 | | 5950 | 2950 | | | 1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a | Torchiere, Small Card, Twin Pack |
| | | 500 | 23731 | Q500T3/CL | 120 | 12 | C-8 | 4.69 | 2.25 | 2000 | | 11100 | 3000 | | | 1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Horizontal |
| | | 500 | 23733 | Q500T3/CL | 130/120 | 12 | C-8 | 4.69 | 2.25 | 2000 | | 10550 | 3000 | | | 1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Horizontal |
| | | 500 | 23744 | Q500T3/CL/6-12PK | 120 | 144 | C-8 | 4.69 | 2.25 | 1500 | | 10950 | 3000 | | | 1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a | Clear, 6 Filament Support, Rough Service, Horizontal |
| | | 500 | 19382 | Q500T3/CL/CD 5PK | 120 | 60 | C-8 | 4.69 | 2.25 | 2000 | | 11100 | 3000 | | | 1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Horizontal, Carded |
| | | 500 | 27448 | Q500T3CL/CD2-5PK | 120 | 60 | C-8 | 4.69 | 2.25 | 2000 | | 11100 | 3000 | | | 1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a | Clear, Horizontal, Carded |
| | | 500 | 97674 | Q500T3/HD/SCD2 | 120 | 25 | C-8 | 4.69 | 2.25 | 2000 | | 11100 | 2950 | | | 1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a | Special service, Motion-Sensing and Security, Small Card, Twin Pack |
|  | R7s | 1000 | 43711 | Q1000T3/CL-6PK | 230 | 144 | C-8 | 10.06 | 6.13 | 2000 | | 21500 | 3050 | | | 1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b | Clear, Horizontal |
| | | 1000 | 43712 | Q1000T3/CL-6PK | 240 | 144 | C-8 | 10.06 | 6.44 | 2000 | | 21500 | 3050 | | | 1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b | Clear, Horizontal |
| | | 1500 | 23828 | Q1500T3/CL-12PK | 208 | 144 | C-8 | 10.06 cm | 6.25 cm | 2000 | | 33000 | 3050 | | | 1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b | Clear, Horizontal |
| | | 1500 | 23826 | Q1500T3/CL-12PK | 220 | 144 | C-8 | 10.06 | 6.18 | 2000 | | 35800 | 3050 | | | 1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b | Clear, Horizontal |
| | | 1500 | 23830 | Q1500T3/CL | 240 | 12 | C-8 | 10.06 cm | 6.31 cm | 2000 | | 32000 | 3050 | | | 1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b | Clear, Horizontal |
| | | 1500 | 23832 | Q1500T3/CL | 277 | 12 | C-8 | 10.06 | 6.25 | 2000 | | 34400 | 3050 | | | 1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b | Clear, Horizontal |

* Based on 3 hours per day use.







** Based on 3 hours per day use, \$0.11 per Kwh

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | Filament Type | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Initial Lumens | Initial Color Temp | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|---|------------------|--------------------|------------|------------------|-----------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|--|--------------------------|--|--|
| Quartzline® (continued) | | | | | | | | | | | | | | | | | |
| Halogen PAR56 | | | | | | | | | | | | | | | | | |
| PAR56 | Mog End Pr | 500 | 43494 | Q500PAR56NSP | 120 | 6 | CC-6 | 5 | | 4000 | | 8000 | 2950 | 96000 | | 1a,2a,2j,4b,4c,4f,4g,7a,9b,10c | Narrow Spot |
| | | 500 | 43495 | Q500PAR56MFL | 120 | 6 | CC-6 | 5 | | 4000 | | 8000 | 2950 | 43000 | | 1a,2a,2j,4b,4c,4f,4g,7a,9b,10c | Medium Flood |
| | | 500 | 43496 | Q500PAR56WFL | 120 | 6 | CC-6 | 5 | | 4000 | | 8000 | 2950 | 19000 | | 1a,2a,2j,4b,4c,4f,4g,7a,9b,10c | Wide Flood |
| Halogen PAR64 | | | | | | | | | | | | | | | | | |
| PAR64 | ExMog EndPr | 1000 | 43497 | Q1000PAR64NSP | 120 | 6 | CC-6 | 5 | | 4000 | | 19400 | 3000 | 200000 | | 1a,2a,2j,4b,4c,4f,4g,7a,9b,10c | Narrow Spot |
| | | 1000 | 43498 | Q1000PAR64MFL | 120 | 6 | CC-6 | 5 | | 4000 | | 19400 | 3000 | 80000 | | 1a,2a,2j,4b,4c,4f,4g,7a,9b,10c | Medium Flood |
| | | 1000 | 43499 | Q1000PAR64WFL | 120 | 6 | CC-6 | 5 | | 4000 | | 19400 | 3000 | 33000 | | 1a,2a,2j,4b,4c,4f,4g,7a,9b,10c | Wide Flood |
| Halogen Miniature Candelabra Screw (E11) | | | | | | | | | | | | | | | | | |
|  | Mini-Cand | 100 | 16452 | Q100MC | 120 | 6 | CC-8 | 2.81 | 1.38 | 2000 | | 1550 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,12e | Frosted |
| | | 100 | 15507 | Q100CL/MC | 120 | 6 | CC-8 | 2.81 | 1.38 | 2000 | | 1600 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,12e | Clear |
| | | 100 | 44385 | Q100CL/MC/2V | 120 | 6 | CC-2V | 2.81 | 1.38 | 750 H | | 1800 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,12e | Clear |
| | | 100 | 19383 | Q100CL/MC/CD 5PK | 120 | 25 | CC-8 | 2.81 | 1.38 | 2000 | | 1600 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,12e | Clear, Carded |
|  | Mini-Cand | 75 | 12715 | Q75CL/MC/CD | 120 | 25 | CC-8 | 2.50 | 1.25 | 1000 | | 1050 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Clear, Carded |
|  | Mini-Cand | 150 | 44654 | Q150MC | 120 | 6 | CC-8 | 3.00 | 1.38 | 2000 | | 2700 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Frosted |
| | | 150 | 43694 | Q150CL/MC | 120 | 6 | CC-8 | 3.00 | 1.38 | 2000 | | 2800 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Clear |
| | | 150 | 19386 | Q150CL/MC/CD 5PK | 120 | 25 | CC-8 | 3.00 | 1.38 | 2000 | | 2800 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Clear, Carded |
| | | 250 | 43695 | Q250MC | 120 | 6 | CC-8 | 3.16 | 1.63 | 2000 | | 4850 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Frosted |
| | | 250 | 43696 | Q250MC | 130/120 | 6 | CC-8 | 3.16 | 1.63 | 2000 | | 4850 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Frosted |
| | | 250 | 43699 | Q250CL/MC | 120 | 6 | CC-8 | 3.16 | 1.63 | 2000 | | 5000 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Clear |
| | | 250 | 43700 | Q250CL/MC | 130/120 | 6 | CC-8 | 3.16 | 1.63 | 2000 | | 5000 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Clear |
| | | 400 | 43706 | Q400MC | 120 | 6 | CC-8 | 3.62 | 2.00 | 2000 | | 7850 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Frosted |
| | | 400 | 43707 | Q400CL/MC | 120 | 6 | CC-8 | 3.62 | 2.00 | 2000 | | 8250 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Clear |
| 500 | 47950 | Q500CL/MC (EVRI) | 120 | 6 | CC-8 | 3.62 | 2.00 | 2000 | | 10450 | 2950 | | | 1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Stage and Studio | | |
| Other | | | | | | | | | | | | | | | | | |
|  | DC PreFoc | 45 | 14473 | Q45T4/CL/DCR | 6.6A | 12 | C-6 | 2.60 | 1.06 | 500 | | 845 | 2850 | | | 1a,2a,2j,2k,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Airport and Airfield |
| | | 2-Pin Prefoc GY16d | 200 | 40702 | Q200T4/CL | 200 | 12 | CC-6 | 2.50 | 1.53 | 500 | | 4500 | 3100 | | | 2a,2j,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c |
|  | 1\" Ribbon Leads | 500 | 88616 | Q500T8/1CL | 120 | 12 | CC-8 | 4.25 | 2.50 | 500 | | 13400 | 3200 | | | 1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b | Clear, Airport, Special Bulb |
| Airport | | | | | | | | | | | | | | | | | |
| T4 | PK30D | 100 | 80584 | Q6.6A100PK30d-m | 6.6A | 10 | CBAR-6 | 2 | 0.79 | 1000 | | 2700 | | | | 2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Airport, Male Spade |
| T8 | PK30D | 200 | 80586 | Q6.6A200PK30d-m | 6.6A | 10 | CC-6 | 2.3 | 0.79 | 1000 | | 4800 | | | | 2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Airport, Male Spade |
| T9 | PK30D | 200 | 80590 | Q6.6A200PK30d-f | 6.6A | 10 | CC-6 | 2.3 | 0.79 | 1000 | | 4800 | | | | 2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Airport, Female Spade |
|  | 1\" Ribbon Leads | 200 | 23857 | Q6.6A/T4/5CL | 6.6A | 12 | CC-8 | 3.00 | | 500 | | 5000 | | | | 2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c | Clear, Airport |

* Based on 3 hours per day use.




** Based on 3 hours per day use, \$0.11 per Kwh

Halogen Lamps

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | Filament Type | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Initial Lumens | Initial Color Temp | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|--|------------------|-------|------------|-----------------|-------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|--------|--------------------------|--|--|
| Airport (continued) | | | | | | | | | | | | | | | | | |
|  | D C Bay BA15d | 200 | 23860 | Q6.6AT4/DCR | 6.6A | 12 | CC-6 | 2.50 | 1.06 | 500 | | 5150 | | | | 2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e | Clear, Airport, Ringed |
| PAR56 | Scrw Term | 200 | 33279 | Q6.6A PAR56/3 | 6.6A | 12 | CC-6 | 4.5 | | 1000 | | | | 200000 | | 2a,2j,4b,4c,4d,4f,4g,7a,9b,10c | PAR, Airport, BDTH |
| PAR56 | Mog End Pr | 200 | 38271 | Q6.6A PAR56/2 | 6.6A | 12 | CC-6 | 5 | | 1000 | | | | 16000 | | 2a,2j,4b,4c,4d,4f,4g,7a,9b,10c | PAR, Airport, BDTH |
|  | Mog End Pr GX16d | 200 | 18309 | Q6.6A/PAR56/4 | 6.6A | 12 | CC-6 | 5.00 | | 600 | | | | | | 2a,2j,4b,4c,4d,4f,4g,7a,9b,10c | PAR, Airport, Prismatic Lens, BDTH |
| PAR64 | Mog End Pr | 200 | 13224 | Q6.6A/PAR 64/2P | 6.6A | 6 | CC-6 | 4.5 | | 2000 | | | | 16000 | | 2a,2j,4b,4c,4d,4f,4g,7a,9b,10c | PAR, Airport, BDTH |
| PAR56 | Scrw Term | 300 | 32861 | Q20A/PAR56/2 | | 12 | CC-6 | 4.5 | | 500 | | | | 200000 | | 2a,2j,4b,4c,4f,4g,7a,9b,10c | PAR, Airport, Burn Position: Any |
| PAR56 | Mog End Pr | 300 | 15482 | Q20A/PAR56/C | | 12 | CC-6 | 5 | | 500 | | | | | | 2a,2j,4c,4f,4g,7a,9b,10c | PAR, Airport, Coated, Burn Position: Any |
| PAR56 | Scrw Term | 499 | 23863 | Q20A/PAR56/3 | | 12 | CC-6 | 4.5 | | 500 | | | | 330000 | | 2a,2j,4b,4c,4d,4f,4g,7a,9b,10c | PAR, Airport, BDTH |
| PAR56 | Mog End Pr | 500 | 15485 | Q20A/PAR56/1/C | | 12 | CC-6 | 5 | | 500 | | | | | | 2a,2j,4c,4f,4g,7a,9b,10c | PAR, Airport, Coated, Burn Position: Any |
| Tubular Quartz Heat | | | | | | | | | | | | | | | | | |
| Sleeve | | | | | | | | | | | | | | | | | |
|  | Sleeve | 500 | 21788 | QH500T3/CL | 120 | 12 | C-8 | 8.80 | 4.81 | 5000 | | | 2400 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Clear |
| | | 1000 | 22355 | QH1000T3/CL | 210 | 12 | C-8 | 13.80 | 10.00 | 5000 | | | 2400 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Clear |
| Recessed Single Contact (R7s) | | | | | | | | | | | | | | | | | |
|  | Sleeve | 1000 | 22357 | QH1000T3/CL | 240 | 12 | C-8 | 13.81 | 10.00 | 5000 | | | 2400 | | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e | Infrared, Clear |
| | | 1200 | 22531 | QH1200T3/CL | 144 | 12 | C-8 | 8.80 | 6.13 | 5000 | | | 2450 | | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, 4g, 9a, 9d, 10b, 10c, 12b, 12e | Infrared, Clear, Horizontal |
| | | 1200 | 22532 | QH1200T3/CL/HT | 144 | 12 | C-8 | 8.80 | 6.13 | 5000 | | | 2450 | | | 1a, 2a, 2b, 3a, 4c, 4d, 4e, 4f, 4g, 9a, 9d, 10b, 10c, 12b, 12e | Infrared, Clear, High Temp, Construction, Horizontal |
| | | 1600 | 22686 | QH1600T3/CL | 210 | 12 | C-8 | 19.80 | 15.88 | 5000 | | | 2350 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Horizontal |
| | | 1600 | 22688 | QH1600T3/CL | 240 | 12 | C-8 | 19.80 | 15.88 | 5000 | | | 2400 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Clear, Horizontal |
| | | 1600 | 22695 | QH1600T3/CL | 277 | 12 | C-8 | 19.80 | 15.88 | 5000 | | | 2400 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Horizontal |
| | | 2500 | 22838 | QH2500T3/CL | 480 | 12 | C-8 | 28.80 | 24.88 | 5000 | | | 2400 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Clear, Horizontal |
| | | 3800 | 22875 | QH3800T3/CL | 575 | 6 | C-8 | 41.80 | 38.00 | 5000 | | | 2500 | | | 1a,2a,2b,3a,4f,5a,5b,9a,9d,10c,12b,12e | Infrared, Horizontal |
|  | R7s | 500 | 21787 | QH500T3/CL/7 | 120 | 12 | C-8 | 8.80 | 4.81 | 5000 | | | 2400 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Clear |
| | | 1600 | 22691 | QH1600T3/CL/7 | 240 | 12 | C-8 | 19.80 | 15.88 | 5000 | | | 2400 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Clear, Horizontal |
|  | R7s | 3650 | 10872 | QH3650T3/CL/5 | 480 | 6 | C-8 | 41.63 | 38.00 | 5000 | | | 2500 | | | 1a,2a,2b,3a,4f,5a,5b,9a,9d,10c,12b,12e | Infrared, Horizontal |

* Based on 3 hours per day use.

** Based on 3 hours per day use, \$0.11 per Kwh

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | Filament Type | MOL (in) | LCL (in) | Rated Life (hrs) | Rated Life (yrs*) | Initial Lumens | Initial Color Temp | CBCP | Annual Operating Costs** | Warning and Caution Notices | Additional Information |
|---|----------------|-------|------------|------------------|-------|----------|---------------|----------|----------|------------------|-------------------|----------------|--------------------|------|--------------------------|--|--|
| Tubular Quartz Heat (continued) | | | | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | | | | |
|  | Ceramic Sleeve | 2000 | 12716 | QH2MT3/CL/HT/R | 230 | 12 | C-8 | 13.00 | 11.00 | 5000 | | | 2450 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Clear, High Temp, Horizontal, Reflector 170° |
|  | Sleeve | 2000 | 15551 | QH2MT3/1CL/HT/VB | 240 | 12 | C-8 | 11.90 | 9.60 | 500 | | | 2450 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Clear, High Temp, Construction, Universal |
| | Sleeve | 2000 | 22790 | QH2M/T3/CL/HT | 225 | 12 | C-8 | 18.80 | 10.00 | 5000 | | | 2450 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Clear, High Temp, Construction, Horizontal |
| | CER | 2500 | 28126 | QH2.5MT3/CL/HT/R | 400 | 12 | C-8 | 15.1 | 12.3 | 5000 | | | 2450 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, High Temp, Horizontal, Reflector 170 |
| | CER | 3000 | 28127 | QH3MT3/CL/HT/R | 400 | 12 | C-8 | 15.1 | 12.3 | 5000 | | | 2450 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, High Temp, Horizontal, Reflector 170 |
|  | Wire Lead | 6000 | 23843 | QH6MT3/CL/HT | 480 | 12 | C-8 | 11.90 | 9.70 | 100 | | | 3250 | | | 1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e | Infrared, Clear, High Temp, Horizontal |

* Based on 3 hours per day use.
 ** Based on 3 hours per day use, \$0.11 per Kwh

Halogen Lamps

General Information

Halogen Lamp Operating Precautions

The lamps listed in this catalog are filled to high internal gas pressures to maximize lamp efficacy (lumens per watt). Some general cautions are given below.

High Operating Temperatures

Since operating temperatures are critical to the effective self-cleaning properties of halogen lamps, filament tube wall temperatures should not go below 482°F (250°C). Hot spots on the bulb wall itself can go as high as 1230°F (700°C) in normal operation.

Substantial heat is generated in all halogen lamps, so equipment design should make allowance for the dissipation of excessive heat. Certain lamps and extremely confined fixtures may require additional ventilation or heat sinking to ensure proper operation of the halogen cycle and to prevent damage to the fixture. It is a good practice to test the lamp in the operating environment early in the design cycle to ensure adequate performance. Precautions must be taken in the selection of materials for lampholders, reflectors and lamp housings because the 1230°F (700°C) bulb wall temperature is greater than the kindling temperature of many materials. Lamp base temperatures should not exceed 662°F (350°C) because, above that point, lead wires may deteriorate and the basing cement loosen, causing premature lamp failure.

Distribution of Spectral Radiation

Halogen lamps offer large amounts of visible and infrared energy from a small light source, with about 90% of the energy in the infrared. Some halogen lamps can be used for special applications where small amounts of ultraviolet energy are required. The slight

ultraviolet radiation that comes from unprotected sources could cause skin and eye irritation following extended direct exposure. Passing the light through ordinary glass or plastic provides adequate protection. The lenses of the PAR, TAL or Cover Glass Precise™ lamps provide this protection.

Quartz Heat Lamps

GE standard quartz heat products are primarily pressurized halogen lamps. Many standard tungsten coil filaments have been converted to a deflection coil winding design that eliminates the need for filament supports through an integral coil/support construction. These changes will improve lamp life as well as keep the bulb wall cleaner during operation and throughout the life of the lamp.

In general, halogen lamps are more efficient than ordinary incandescent lamps. HIR™ lamps are the most efficient halogen lamps we offer. For each application, check life, lumens, wattage, beam spread and lamp dimensions to determine proper bulb selection.

GE has added a reflectorized heat lamp with a patented design that directs the infrared to a surface rather than in 360° angle.

Halogen Caution Notice – General

Halogen lamps are constructed of a glass bulb with a pressurized internal filament tube that operates at high temperatures and could unexpectedly shatter. Should the outer bulb break, particles of extremely hot glass could be discharged into the fixture enclosure and/or surrounding environment, thereby creating a risk of personal injury or fire.

Operating Notes

- Turn power off and let lamp cool before removal to avoid potential burn and electrical shock during lamp replacement
- Do not use lamp if outer glass is scratched or broken because it may break during installation or later during operation
- Do not use lamp in close proximity to combustible materials or those adversely affected by drying or fading action because of heat radiation in the lamp beam
- Dispose of removed lamp with care such as placing in used lamp carton or other closed container

Compact PAR Lamps (PAR20/30)

- Use outdoors in enclosed fixtures or where protected from exposure to water

Quartzline® PAR (250W)

- Avoid use where exposed to moisture which may cause lamp to break or shatter
- Do not operate lamp over 110% rated voltage. Overvoltage operation increases pressure and tendency to break.
- Use this lamp only in fixtures designed for Q250PAR38 lamps

Halogen A-Line (TB/H)

Caution: Cracked or broken bulbs that still light should be replaced immediately. The inner tube of the GE Halogen lamp is pressurized, operates at high temperature and could unexpectedly shatter with the possibility of property damage or personal injury. Avoid use in unstable table lamps, dispose of with care. To avoid burns, electricity should be switched off and the lamp allowed to cool for several minutes before removing from socket. Use outdoors only in enclosed fixtures or where protected from exposure to water.

Operating Notes – Low Voltage Lamps

Low voltage tungsten-halogen lamps are sensitive to voltage variations. Even a small change in voltage can have a considerable impact on lamp life. Designers should match fixture transformer ratings to actual line voltages to ensure that the lamps operate at as close to 12 volts as possible.

Rapid cycling can also shorten lamp life, and designers should take advice from their GE Lighting representative before using these lamps in flashing or blinking applications.

The lamps may be dimmed by reducing voltage. However, this may cause the bulbs to blacken. If this occurs the lamp should be run at full voltage for fifteen minutes, thereby clearing the problem. Note that the nature of low voltage lighting systems requires the use of fluorescent-type dimmers. Lamp can be operated on AC or DC currents.

Warning and Caution Notices

| | | |
|--|--|---------------------------------------|
| <p>1</p> <p>⚠ WARNING Risk of electric shock</p> <ol style="list-style-type: none"> Turn power off before inspection, installation or removal Turn power off if glass bulb is broken, even if bulb continues to light. Remove and dispose of lamp. Do not open. No user serviceable parts inside. | <p>6</p> <p>⚠ WARNING Risk of burn</p> <ol style="list-style-type: none"> Do not touch operating lamp | Incandescent |
| <p>2</p> <p>⚠ WARNING Risk of fire</p> <ol style="list-style-type: none"> Keep combustible materials away from lamp Use in fixture rated for this product Use in fixture rated for this product—see instructions Operate base down to horizontal only In table lamp use only with shade Do not use in enclosed fixture or with lamp shade Use in high intensity fixture rated for this product Do not use as a night light Burning position base down only Use in enclosed fixture rated for this product Fire Hazard! Do not use in Torchieres or other indoor residential fixtures | <p>7</p> <p>⚠ WARNING A damaged lamp emits UV radiation which may cause eye/skin injury</p> <ol style="list-style-type: none"> Turn power off if glass bulb is broken. Remove and dispose of lamp. | Halogen |
| <p>3</p> <p>⚠ WARNING Lamp emits IR radiation which may cause eye injury</p> <ol style="list-style-type: none"> Avoid exposure of eyes and skin to unshielded lamp | <p>8</p> <p>⚠ WARNING Lamp emits UV radiation which may cause eye/skin injury.</p> <ol style="list-style-type: none"> Avoid exposure of eyes and skin to unshielded lamp | High Intensity Discharge |
| <p>4</p> <p>⚠ WARNING Pressurized lamp—unexpected rupture may cause injury, fire, or property damage</p> <ol style="list-style-type: none"> Use eye protection when handling lamp Avoid direct water/liquid contact Use in enclosed fixture rated for this product Operate lamp only in specified position Do not touch glass with bare hands Do not use lamp if outer glass is scratched or broken Do not exceed 110% of rated voltage Do not use where directly exposed to water or outdoors without an enclosed fixture Do not exceed rated voltage Do not use lamp if outer jacket is scratched or broken, even if bulb continues to light. Turn power off, remove and dispose. Do not use in wet locations | <p>9</p> <p>⚠ CAUTION Risk of burn</p> <ol style="list-style-type: none"> Allow lamp to cool before handling Allow lamp/fixture to cool before handling Do not touch operating lamp Turn power off before installing lamp | Fluorescent |
| <p>5</p> <p>⚠ WARNING Unexpected lamp rupture may cause injury, fire, or property damage</p> <ol style="list-style-type: none"> Do not touch glass with bare hands Operate lamp only in specified position Use in enclosed fixture rated for this product Do not use lamp if outer glass is scratched or broken Avoid direct water, liquid or metal contact <p>For the most up-to-date product information, see www.gelighting.com.</p> | <p>10</p> <p>⚠ CAUTION Lamp may shatter and cause injury if broken</p> <ol style="list-style-type: none"> Wear safety glasses and gloves when handling lamp Dispose of lamp in a closed container Do not use lamp if outer glass is scratched or broken | Compact Fluorescent |
| <p>6</p> <p>⚠ WARNING Pressurized lamp—unexpected rupture may cause injury, fire, or property damage</p> <ol style="list-style-type: none"> Use eye protection when handling lamp Avoid direct water/liquid contact Use in enclosed fixture rated for this product Operate lamp only in specified position Do not touch glass with bare hands Do not use lamp if outer glass is scratched or broken Do not exceed 110% of rated voltage Do not use where directly exposed to water or outdoors without an enclosed fixture Do not exceed rated voltage Do not use lamp if outer jacket is scratched or broken, even if bulb continues to light. Turn power off, remove and dispose. Do not use in wet locations | <p>11</p> <p>⚠ CAUTION Lamp emits UV radiation which may cause eye/skin irritation.</p> <ol style="list-style-type: none"> Minimize exposure | LED Lamps, Tubes and Modules |
| <p>7</p> <p>⚠ WARNING A damaged lamp emits UV radiation which may cause eye/skin injury</p> <ol style="list-style-type: none"> Turn power off if glass bulb is broken. Remove and dispose of lamp. | <p>12</p> <p>OP. INST.</p> <ol style="list-style-type: none"> Burning position – base up Burning position – horizontal Burn base down only Burn base down to horizontal Limit seal temp to 650°F. Maintain min bulb wall temp of 500°F for operation of halogen cycle | Stage and Studio |
| <p>8</p> <p>⚠ WARNING Lamp emits UV radiation which may cause eye/skin injury.</p> <ol style="list-style-type: none"> Avoid exposure of eyes and skin to unshielded lamp | | Miniature, Sealed Beam and Automotive |
| | | Projection |

Halogen Lamps

Cross-Reference

| GE Description | Osram/ Sylvania Description | Philips Description |
|---------------------------------|----------------------------------|-----------------------|
| Order This GE Lamp | If you currently use these lamps | |
| Halogen PAR Lamps | | |
| 60PAR16/H/SP10 | 60PAR16/CAP/NSP10 | 60PAR16/HAL/NSP10 |
| 60PAR16/H/FL30 | 60PAR16/CAP/NFL30 | 60PAR16/HAL/NFL27 |
| 75PAR16/H/SP10 | 75PAR16/CAP/NSP10 | — |
| 75PAR16/H/FL30 | 75PAR16/CAP/NFL30 | — |
| 50PAR20/H/SP10 | 50PAR20/CAP/SPL/NSP10 | 50PAR20/HAL/NSP9 |
| 50PAR20/H/FL25 | 50PAR20/CAP/SPL/NFL30 | 50PAR20/HAL/NFL30 |
| 50PAR30/H/SP10 | 50PAR30/CAP/SPL/NSP9 | 50PAR30S/HAL/NSP10 |
| 50PAR30/H/FL25 | 50PAR30/CAP/SPL/NFL25 | 50PAR30S/HAL/NFL30 |
| 50PAR30/H/FL35 | 50PAR30/CAP/SPL/FL40 | 50PAR30S/HAL/FL40 |
| 50PAR30L/H/SP10 | 50PAR30LN/CAP/SPL/NSP9 | 50PAR30L/HAL/NSP9 |
| 50PAR30L/H/FL40 | 50PAR30LN/CAP/SPL/NFL30 | 50PAR30L/HAL/NFL30 |
| 50PAR30L/H/WFL | 50PAR30LN/CAP/SPL/WFL50 | 50PAR30L/HAL/WFL60 |
| 60PAR30/H/NSP9 | 60PAR30/CAP/SPL/NSP9 | 60PAR30S/HAL/NSP10 |
| 60PAR30/H/FL25 | 60PAR30/CAP/SPL/NFL25 | 60PAR30S/HAL/NFL30 |
| 60PAR30/H/FL35 | — | 60PAR30S/HAL/NFL40 |
| 75PAR30/H/SP10 | 75PAR30/CAP/SPL/NSP9 | 75PAR30S/HAL/NSP10 |
| 75PAR30/H/FL25 | 75PAR30/CAP/SPL/NFL25 | 75PAR30S/HAL/NFL30 |
| 75PAR30/H/FL35 | 75PAR30/CAP/SPL/FL40 | 75PAR30S/HAL/FL40 |
| 75PAR30L/H/SP10 | 75PAR30LN/CAP/NSP9 | 75PAR30L/HAL/NSP9 |
| 75PAR30L/H/FL25 | 75PAR30LN/CAP/NFL25 | 75PAR30L/HAL/NFL30 |
| 75PAR30L/H/WFL | 75PAR30LN/CAP/WFL40 | 75PAR30L/HAL/FL40 |
| 45PAR/H/SP10 | 45PAR/CAP/SPL/SP9 | 45PAR38/HAL/SP12/LL |
| 45PAR/H/FL25 | 45PAR/CAP/SPL/FL30 | 45PAR38/HAL/FL28/LL |
| 50PAR/H/SP10 | 50PAR38/HAL/SP9 | — |
| 50PAR/H/FL25 | 50PAR38/HAL/FL30 | — |
| 60PAR/H/SP10 | 60PAR/CAP/SPL/SP10 | 60PAR38/HAL/NSP10/WLL |
| 60PAR/H/FL25 | 60PAR/CAP/SPL/NSL25 | 60PAR38/HAL/FL28/WLL |
| 75PAR/H/NSP9 | 75PAR/CAP/SPL/SP9 | 75PAR38/HAL/SP10/WLL |
| 75PAR/H/FL25 | 75PAR/CAP/SPL/FL30 | 75PAR38/HAL/FL28/WLL |
| 90PAR/H/SP10 | 90PAR/CAP/SPL/SP9 | 90PAR38/HAL/SP12/LL |
| 90PAR/H/FL25 | 90PAR/CAP/SPL/FL30 | 90PAR38/HAL/FL28/LL |
| 90PAR/H/WFL | 90PAR/CAP/SPL/WFL50 | 90PAR38/HAL/WFL60/WLL |
| 100PAR/H/SP10 | 100PAR38/HAL/SP9 | — |
| 100PAR/H/FL25 | 100PAR38/HAL/FL30 | — |
| 120PAR/H/SP9 | 120PAR/CAP/SPL/SP10 | — |
| 120PAR/H/FL30 | 120PAR/CAP/SPL/FL30 | — |
| Halogen HIR™ PAR Lamps | | |
| 45PAR30/HIR/SP9XL | — | 45PAR30/IRC/HAL/SP10 |
| 45PAR30/HIR/FL25XL | — | 45PAR30/IRC/HAL/FL25 |
| 45PAR30/HIR/FL35XL | — | 45PAR30/IRC/HAL/FL40 |
| 50PAR30/HIR/SP9 | 50PAR30/CAP/IR/NSP9 | 50PAR30S/IRC/NSP10 |
| 50PAR30/HIR/FL25 | 50PAR30/CAP/IR/NFL25 | 50PAR30S/IRC/NFL30 |
| 50PAR30/HIR/FL35 | 50PAR30/CAP/IR/FL40 | 50PAR30S/IRC/FL40 |
| Halogen HIR™ PAR38 Lamps | | |
| 45PAR/HIR/FL40XL | — | 45PAR38/IRC/WFL |
| 45PAR/HIR+/SR10 | — | — |
| 45PAR/HIR+/FL25 | — | — |
| 48PAR/HIR+/SP10 | — | — |
| 48PAR/HIR+/FL25 | — | — |
| 50PAR/HIR/SP6 | — | — |
| 50PAR/HIR/SP9 | 50PAR38/CAP/IR/SP9 | 50PAR38/IRC/SP10 |
| 50PAR/HIR/FL25 | 50PAR38/CAP/IR/NFL25 | 50PAR38/IRC/FL25 |
| 50PAR/HIR/S/SP10 | — | — |
| 50PAR/HIR/S/FL25 | — | — |
| 55PAR/HIR+/SP10 | — | — |
| 55PAR/HIR+/FL25 | — | — |
| 60PAR/HIR/SP10 | 60PAR38/CAP/IR/SP9 | 60PAR38/IRC/SP12 |
| 60PAR/HIR/FL30 | 60PAR38/CAP/IR/FL30 | 60PAR38/IRC/FL25 |
| 60PAR/HIR/FL40 | — | 60PAR38/IRC/HAL/FL40 |
| 60PAR/HIR/S/SP10 | — | — |

| GE Description | Osram/ Sylvania Description | Philips Description |
|---|----------------------------------|----------------------|
| Order This GE Lamp | If you currently use these lamps | |
| Halogen HIR™ PAR38 Lamps (continued) | | |
| 60PAR/HIR/S/FL25 | — | — |
| 60PAR/HIR+/SP10 | — | — |
| 60PAR/HIR+/FL25 | — | — |
| 67PAR/HIR+/SP10 | — | — |
| 67PAR/HIR+/FL25 | — | — |
| 70PAR/HIR/SP10 | — | 70PAR38/IRC/HAL/SP10 |
| 70PAR/HIR/FL25 | — | 70PAR38/IRC/HAL/FL25 |
| 80PAR/HIR/SP10 | 80PAR/CAP/IR/SP10 | — |
| 80PAR/HIR/SP12 | 80PAR/CAP/IR/SP12 | — |
| 80PAR/HIR/FL25 | 80PAR/CAP/IR/FL25 | — |
| 83PAR/HIR+/SP10 | — | — |
| 83PAR/HIR+/FL25 | — | — |
| 90PAR/HIR/SP12XL | — | — |
| 90PAR/HIR/FL40XL | — | — |
| 100PAR/HIR/SP10 | 100PAR/CAP/IR/SP10 | 100PAR38/IRC/SP10 |
| 100PAR/HIR/FL25 | 100PAR/CAP/IR/NFL25 | 100PAR38/IRC/FL25 |
| 100PAR/HIR/FL40 | 100PAR/CAP/IR/FL40 | 100PAR38/IRC/WFL |
| Halogen MR11 Lamps | | |
| Q20MR11/SP15 | 20MR11/SP10/FTB | 20MRC11/SP10 |
| Q20MR11/NFL30 | 20MR11/FL35/FTD | 20MRC11/FL30 |
| Q35MR11/NSP20 | 35MR11/SP10/FTE | — |
| Q35MR11/NFL30 | 35MR11/FL40/FTH | 35MRC11/FL30 |
| Halogen Standard MR16 Lamps | | |
| Q20MR16/SP | 20MR16/NSP8/ESX | 20MRC16/SP10 |
| Q20MR16/FL | 20MR16/FL40/BAB | 20MRC16/FL36 |
| Q50MR16/SP | 50MR16/NSP12/EST | 50MRC16/SP10 |
| Q50MR16/FL | 20MR16/FL40/EXN | 50MRC16/FL38 |
| Halogen ConstantColor® Precise™ MR16 Lamps | | |
| Q20MR16/C/NSP7 | 20MR16/T/NSP10 | 20MRC16/CC/SP10 |
| Q20MR16/C/NSP15 | — | 20MRC16/CC/NFL24 |
| Q20MR16/C/FL40 | 20MR16/T/NFL40 | 20MRC16/CC/FL38 |
| Q35MR16/C/SP20 | 35MR16/T/NFL25 | — |
| Q35MR16/C/FL40 | 35MR16/T/FL40 | — |
| Q42MR16/C/NSP9 | 50MR16/T/NSP10 | — |
| Q50MR16/C/NSP15 | — | 50MRC16/CC/SP10 |
| Q50MR16/C/NFL25 | 50MR16/T/NFL25 | 50MRC16/CC/NFL24 |
| Q50MR16/C/NFL30 | — | — |
| Q50MR16/C/FL40 | 50MR16/T/FL40 | 50MRC16/CC/NFL38 |
| Q50MR16/C/WFL55FNV | 50MR16/T/WFL60 | — |
| Q71MR16/C/NSP15 | 65MR16/T/NSP10 | — |
| Q71MR16/C/NFL25 | 65MR16/T/NFL25 | — |
| Q71MR16/C/FL40 | 65MR16/T/FL40 | — |
| Halogen HIR™ MR16 Lamps | | |
| Q20MR16/HIR/CG10 | 20MR16/IR/SP10/C | 20MRC16/IRC/ALW/SP8 |
| Q20MR16/HIR/CG25 | 20MR16/IR/NFL25/C | — |
| Q20MR16/HIR/CG35 | 20MR16/IR/FL35/C | 20MRC16/IRC/ALW/FL36 |
| Q37MR16/HIR/CG10 | 37MR16/IR/NSP10C | 35MRC16/IRC/SP8 |
| Q37MR16/HIR/CG25 | 37MR16/IR/NFL25C | 35MRC16/IRC/NFL24 |
| Q37MR16/HIR/CG40 | 37MR16/IR/FL40C | 35MRC16/IRC/FL36 |
| Q50MR16/HIR/CG10 | 50MR16/IR/NSP10C | 45MRC16/IRC/SP8 |
| Q50MR16/HIR/CG25 | 50MR16/IR/NFL25C | 45MRC16/IRC/NFL24 |
| Q50MR16/HIR/CG40 | 50MR16/IR/FL40C | 45MRC16/IRC/FL36 |
| Halogen Bi-Pin Low Voltage | | |
| Q5T3/CL | 5T3Q/CL | 5W12V/Capsule |
| Q10T3/CL | 10T3Q/CL | 10W12V/Capsule |
| Q20T3/CL | 20T3Q/CL/AX | 20W12V/Capsule |
| Q35T3/CL | 35TQ/CL/AX | 35W12V/Capsule |
| Q50T3/CL | 50T4Q/CL | 50W12V/Capsule |
| Q75T4/CL | 75T4Q/CL/RP | — |

Cross-Reference (continued)

| GE Description | Osram/ Sylvania Description | Philips Description |
|-----------------------------|---|---------------------|
| Order This GE Lamp | If you currently use these lamps | |
| Halogen Single-Ended | | |
| Q100CL/DC | 100Q/CL/DC | 100Q/CL/DC |
| Q100CL/MC | 100Q/CL/MC | 100Q/CL |
| Q100DC | 100Q/DC | — |
| Q150CL/DC/2V | 150Q/CL/DC/1 | — |
| Q150CL/DC | 150Q/CL/DC | 150Q/CL/DC |
| Q150CL/MC | 150Q/CL/MC/2 | 150Q/CL |
| Q150CL/MC/2V | 150Q/CL/MC | — |
| Q150DC | 150Q/DC | 150Q/DC |
| Q150MC | 150Q/MC | 150Q |
| Q250CL/DC | 250Q/CL/DC | 250Q/CL/DC |
| Q250CL/MC | 250Q/CL/MC/2 | 250Q/CL |
| Q250DC | 250Q/DC | — |
| Q250MC | 250Q/MC | — |
| Halogen Double-Ended | | |
| Q100T3/CL/CD | 100T3Q/CL | BC100T3Q/CL/TP |
| Q150T3/CL | 150T3Q/CL | BC100T3Q/CL/TP |
| Q300T3/CL | 300T3Q/CL | 300T3Q/P/CL |
| Q500T3/CL | 500T3Q/CL | 500T3Q/P/CL |

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
Fluorescent

LED Lamps,
Tubes and Modules

Stage and Studio

Miniature, Sealed
Beam and Automotive

Projection

High Intensity Discharge Lamps

| | | | |
|--|------|-----------------------------------|------|
| Bulb Identification | 3-2 | General Information..... | 3-18 |
| Lamp Locator | 3-2 | Operating Notes..... | 3-19 |
| Base Identification | 3-5 | Dimming | 3-19 |
| Introduction | 3-5 | Footnotes | 3-19 |
| Product Information..... | 3-6 | Warning Notices..... | 3-20 |
| HID Brand Name Cross Reference..... | 3-8 | Important Notice | 3-20 |
| Section Headings | 3-8 | Warning and Caution Notices | 3-21 |
| ConstantColor® CMH® Metal Halide Lamps | | Cross-Reference | 3-30 |
| CMH® MR16 ULTRA..... | 3-9 | | |
| CMH® MR16 | 3-9 | | |
| CMH® PAR Integral Ballast..... | 3-9 | | |
| CMH® PAR..... | 3-9 | | |
| CMH® Elliptical..... | 3-10 | | |
| CMH® Elliptical Open-Rated..... | 3-10 | | |
| CMH® Single-Ended G12 ULTRA | 3-10 | | |
| CMH® Single-Ended G12..... | 3-11 | | |
| CMH® Double-Ended TD | 3-11 | | |
| CMH® GU6.5 ULTRA | 3-11 | | |
| CMH® GU6.5 | 3-11 | | |
| CMH® Mini ULTRA | 3-11 | | |
| CMH® Mini's | 3-11 | | |
| CMH® Chromafit™ | 3-11 | | |
| High-Watt CMH® SPXX | 3-11 | | |
| PulseArc® Multi-Vapor® Metal Halide Lamps | 3-12 | | |
| Multi-Vapor® Metal Halide Lamps | 3-13 | | |
| High Output and XHO Multi-Vapor® | | | |
| Metal Halide Lamps | 3-13 | | |
| Sports Lighting..... | 3-14 | | |
| Protected Multi-Vapor® Metal Halide Lamps..... | 3-14 | | |
| Chromafit™ Multi-Vapor® Metal Halide Lamps | | | |
| (HPS Retrofit Lamps)..... | 3-15 | | |
| Lucalox® High Pressure Sodium Lamps | 3-15 | | |
| Ecolux® High Pressure Sodium Lamps | | | |
| (TCLP Compliant) | 3-15 | | |
| Ecolux® Standby Longlife Lucalox® Lamps | | | |
| (TCLP Compliant) | 3-16 | | |
| Standby Longlife Lucalox® Lamps | 3-17 | | |
| Ecolux® NC Non-Cycling High Pressure Sodium | | | |
| Lamps (TCLP Compliant) | 3-17 | | |
| Lucalox® PSL Lamps for Greenhouse | 3-17 | | |
| Mercury Lamps | 3-17 | | |

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

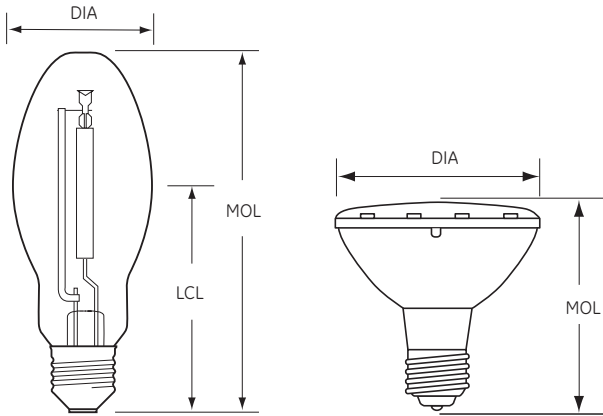
Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

High Intensity Discharge Lamps

Bulb Identification



DIA: Diameter of bulb at widest point.

MOL: Maximum Overall Length including base or pins.

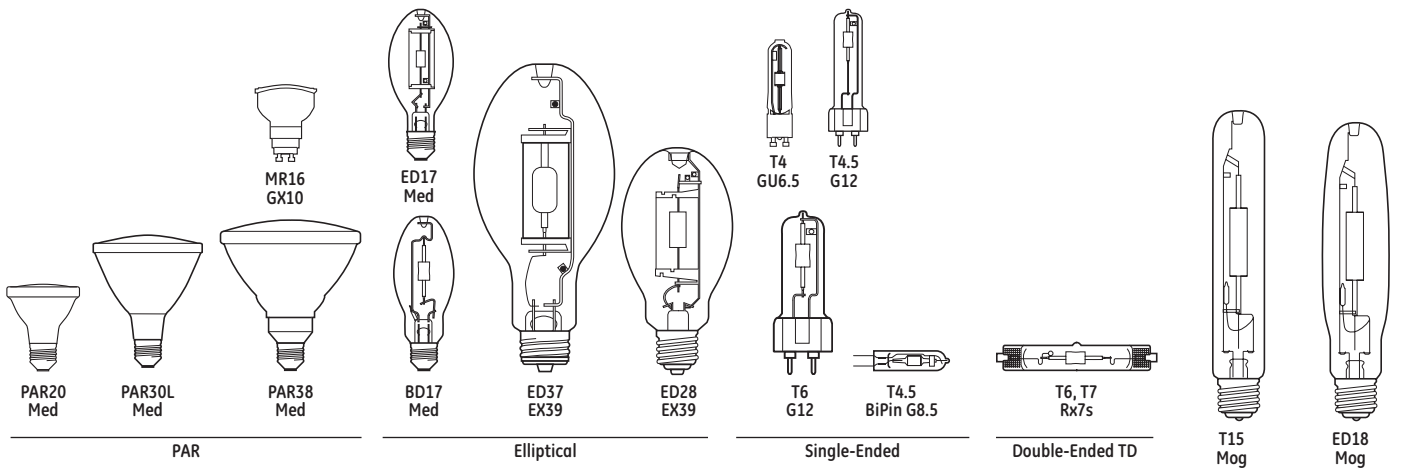
LCL: Distance between the center of the arc tube and the Light Center Length reference plane.

Note: Lamp drawings are not drawn to scale.

Be sure to check size and dimension information when identifying each lamp.

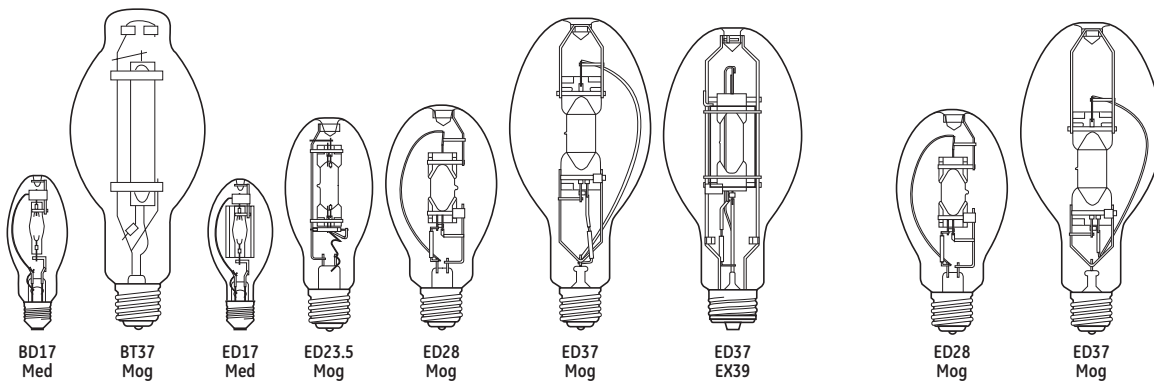
To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

Lamp Locator



ConstantColor® CMH® Ceramic Metal Halide

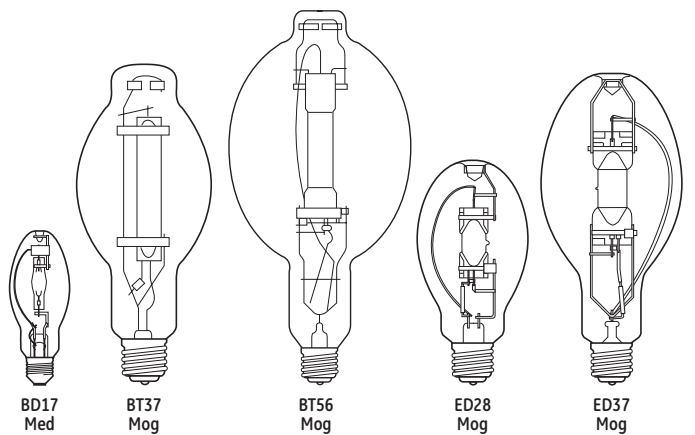
CMH® Chromafit™ Ceramic Metal Halide (HPS Retrofit Lamps)



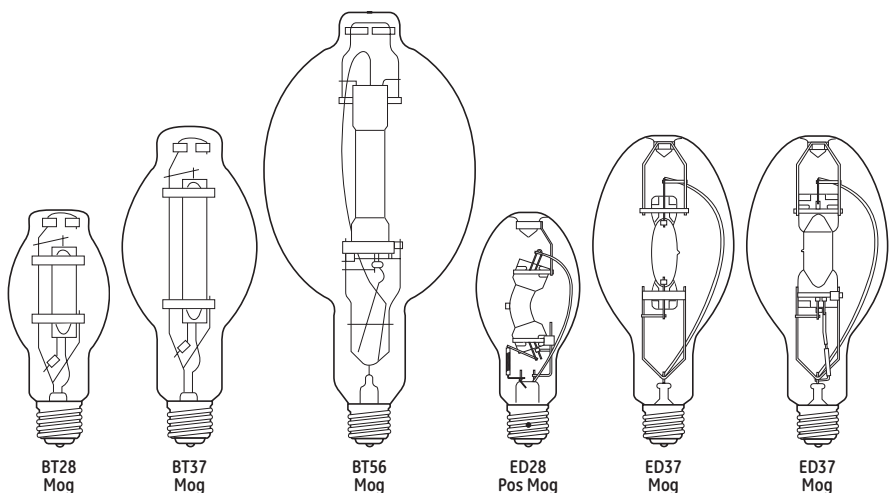
PulseArc® Multi-Vapor® Metal Halide Lamps

Chromafit™ Multi-Vapor® Metal Halide Lamps (HPS Retrofit Lamps)

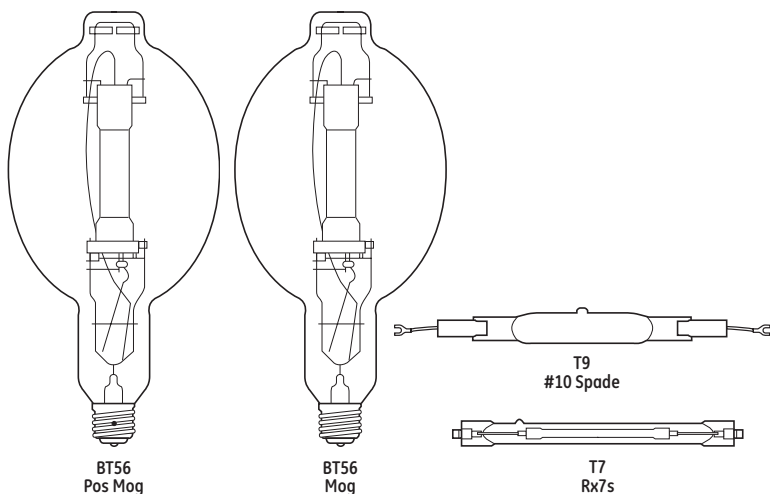
Lamp Locator (continued)



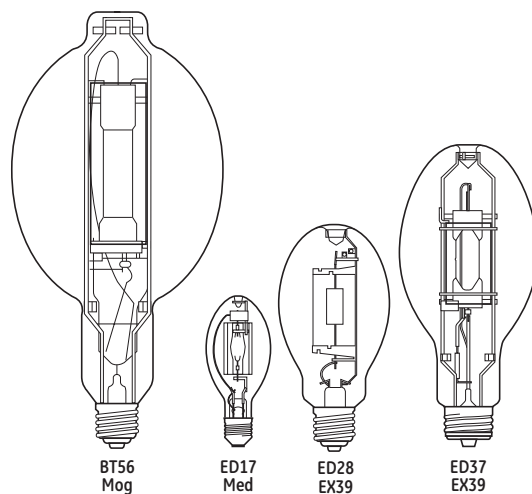
Multi-Vapor® Metal Halide Lamps



High Output and XHO Multi-Vapor® Metal Halide Lamps



Sports Lighting



Protected Multi-Vapor® Metal Halide Lamps

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

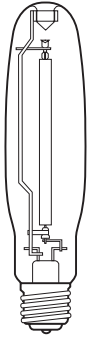
Stage and Studio

Miniature, Sealed Beam and Automotive

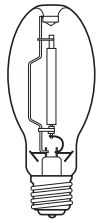
Projection

High Intensity Discharge Lamps

Lamp Locator (continued)



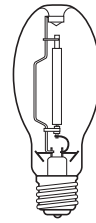
ED18
Mog



ED23.5
Mog



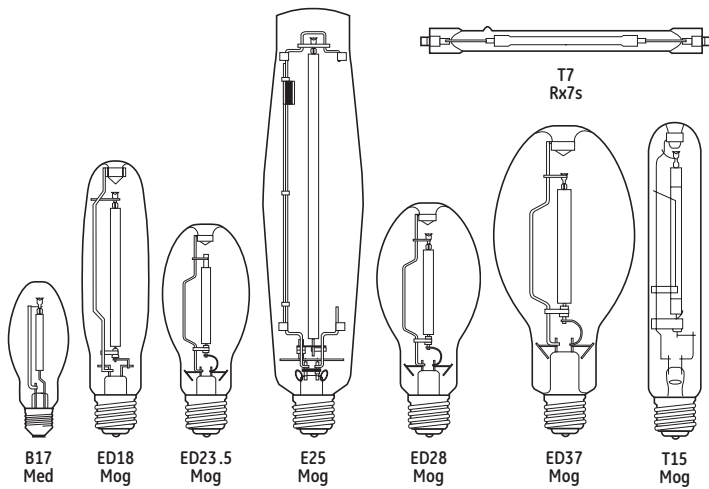
ED18
Mog



ED23.5
Mog

Ecolux® NC Non-Cycling High Pressure Sodium Lamps
(TCLP Compliant)

Ecolux® High Pressure Sodium Lamps
(TCLP Compliant)



B17
Med

ED18
Mog

ED23.5
Mog

E25
Mog

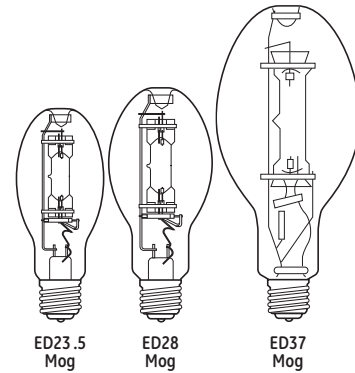
ED28
Mog

ED37
Mog

T15
Mog

T7
Rx7s

Lucalox® High Pressure Sodium Lamps



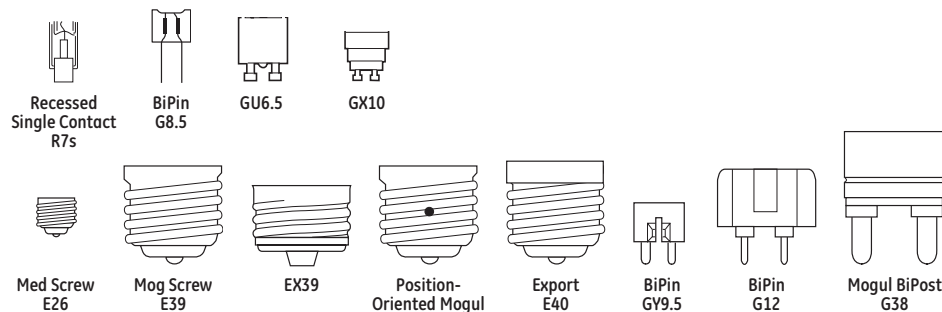
ED23.5
Mog

ED28
Mog

ED37
Mog

Mercury Lamps

Base Identification



Introduction

GE HID lamps provide the following benefits:

High Efficacy/Low Operating Cost.

HID is generally the most efficient light source. Better efficiency almost always means lower operating cost.

Long Life.

Most HID lamps have life ratings that are better than incandescent lamps and similar to fluorescent lamps.

Compact Size.

An HID lamp produces high light output from a relatively compact source. Like incandescent, it is a "point" light source, which allows for good optical control.

The chart at right shows how HID lamps compare to incandescent, halogen, and fluorescent in terms of efficiency and rated life.

Efficiency is measured in lumens per watt (LPW). Rated life for most lamp types is the number of burning hours when 50% of the tested samples have failed and 50% are still operational. For both HID and fluorescent, lamp life depends on the number of hours per start.

The combination of high efficiency and long life makes HID an ideal light source for many commercial and industrial applications.

Typical Lamp Characteristics

| Lamp Type | Typical LPW | Rated Life (in hours) |
|-------------------------------|-------------|-----------------------|
| Incandescent | 5-22 | 750-2000 |
| Halogen | 12-36 | 2,000-6000 |
| Compact Fluorescent | 27-80 | 9,000-20,000 |
| Fluorescent | 75-100 | 5,000-36,000 |
| Mercury | 50-60 | 12,000-24,000+ |
| ConstantColor® CMH® | 80-95 | 10,000-20,000 |
| Multi-Vapor® Metal Halide | 80-115 | 10,000-20,000 |
| Lucalox® High Pressure Sodium | 90-140 | 10,000-40,000 |

Suggested Color Applications for HID Lamps

CMH®: Stores, people places, display, accent.

MVR: Stores, public spaces, industrial, gymnasiums, floodlighting signs and buildings, parking areas, sports.

MVR/C: Same as MVR – warmer color-diffuse coating reducing glare.

MXR: Warm color (3200K) – good match for halogen.

LU: Street lighting, parking areas, industrial, floodlighting, security, CCTV.

LU/DX: Floodlighting, parking areas, indoor/outdoor pedestrian malls, industrial, security, roadway.

Deluxe (DX) Mercury: Stores, public spaces – metal halide lamps however, are preferred.

Clear Mercury: Landscape lighting, specialized floodlighting such as green copper roofs.

High Intensity Discharge Lamps

Product Information

GE ConstantColor® CMH® and CMH® Ultra Ceramic Metal Halide Lamps (pgs 3-9 to 3-11)

- Color uniformity lamp-to-lamp and over lamp life
- Excellent color rendering (80+ CRI, 90+ CRI for SPXX versions)
- Delivers more light than standard metal halide (10%–20% more)
- Lamp operates at high efficacy—up to 95 lumens per watt
- Many are universal burn—may be operated in any position
- Perfect for retail and commercial display lighting, accent and floodlighting, lobby and foyer lighting. Ideal for “people places”

GE CMH® Chromafit™ Ceramic Metal Halide Lamps (pg 3-11)

- Convert High Pressure Sodium sockets to crisp, white ceramic metal halide light (80+ CRI)
- Operate on standard HPS ballasts and auxiliary equipment
- Universal burn—may be operated in any position
- Uses: Area lighting, industrial and “people places”
- Enclosed glass fixtures only

GE PulseArc® Medium Based Metal Halide Lamps (/MED models) (pg 3-12)

- Low wattage metal halide lamps (formerly Halarc®) are now part of the PulseArc® family
- Compact source
- Sparkling white light (3000-4000K) and very good color rendition (70-75 CRI)
- High efficacy—more than 3 times the lumens per watt of incandescent
- Long life—up to 15 times longer than incandescent systems and up to 7 times longer than most PAR and R systems, saving maintenance and labor costs
- Superior optical control
- Uses: Display lighting, downlighting, floodlighting, corridors, lobbies, walkways; retail, office, commercial

GE PulseArc® Multi-Vapor® Metal Halide Lamps (/PA Models) (pgs 3-12 to 3-13)

- Designed for operation only on approved ballasts with metal halide pulse ignitors
- More light—400W lamps provide highest initial and highest maintained lumens versus other standard universal or vertical base-up lamp options
- 50% longer life—400W lamps provide 30,000 hours life when burned on 120 hour on/1 hour off cycle (approximately continuous)
- Faster hot restrike—less than 4 minutes versus 10-15 minutes for typical metal halide lamps

GE Multi-Vapor® Metal Halide Lamps (pg 3-13)

- Sparkling white light (3000-4000K) and very good color rendition (65-75 CRI)
- Warm, rich 3000K color of SP30 blends well with incandescent, halogen and triphosphor fluorescent lamps for interior retail applications
- High efficacy—more efficient than incandescent, mercury and most fluorescent sources
- Long life—10,000-20,000 hours for most types

- Full line, 150-1000 watts, to meet most application needs
- Uses: Downlighting, floodlighting, corridors, lobbies, walkways; retail, commercial, industrial

GE High Output Multi-Vapor® Lamps (pgs 3-13 to 3-14)

- More light—optimized for higher light output in horizontal, vertical base-up and base-down burn applications
 - Horizontal burn lamps provide up to 25% more light than standard universal burn equivalents
 - 400W vertical burn lamps provide up to 22% more light than standard universal burn equivalents; the highest lumen lamps available for operation on standard M59 ballasts
- Longer life—horizontal burn lamps last up to 67% longer than universal burn lamp equivalents, significantly reducing replacement lamp and maintenance costs

GE Protected High Output Multi-Vapor® Lamps (/O) (pgs 3-14 to 3-15)

- Protective quartz jacket surrounds the arc tube
- The/O suffix and/or the “MPR” prefix in the Lamp Description indicates lamps are suitable for open fixture applications

GE ChromaFit™ Multi-Vapor® Lamps (/R) (pg 3-15)

- Convert high pressure sodium sockets to crisp white metal halide light (65-70 CRI)
- Operate on standard HPS ballasts and auxiliary equipment
- Uses: Area lighting, industrial and “people places”

GE Lucalox® High Pressure Sodium Lamps (pg 3-15)

- Very high efficacy/low operating cost
- Excellent lumen maintenance—over 90% @ 50% of life
- Very long life—24,000+ hours
- Universal burn—can be operated in any position without affecting performance
- Warm color
- For open or enclosed fixtures
- Uses: Industrial, roadway, security, floodlighting

GE Ecolux® High Pressure Sodium Lamps (/ECO) (pgs 3-15 to 3-16)

- Lead-free base. Passes TCLP, which can lower disposal costs.

GE Standby Longlife Lucalox® and Ecolux® Lamps (/SBY) (pgs 3-16 to 3-17)

- Extra arc tube provides light instantly after momentary power interruption, and will increase to 80% light output in 1-2 minutes
- Dual arc tubes provide 40,000 hour rated life
- Operates on standard HPS ballasts and auxiliary equipment
- Uses: Industrial, roadway, security, and hard-to-reach sockets
- Ecolux® lamps use lead-free bases. Passes TCLP, which can lower disposal costs.

Product Information (continued)

GE Ecolux® NC “Non-Cycling” High Pressure Sodium Lamps (/ECO/NC) (pg 3-17)

- Low mercury. Passes TCLP, which can lower disposal costs.
- Non-cycling feature makes locating and replacing end-of-life lamps quick and easy
- Lead-free base
- High efficacy/low operating cost
- 6%-11% higher initial lumens than standard HPS in 100W and 400W versions
- Long life—up to 40,000 hours
- Open or enclosed fixtures
- Uses: Industrial, roadway, security

GE Mercury Lamps (pg 3-17)

- Long life and good efficacy
- Phosphor coated Deluxe lamps provide good color rendering (50CRI)
- Uses: Industrial, roadway, landscapes, residential and commercial security, parking lots

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

High Intensity Discharge Lamps

HID Brand Name Cross-Reference

| GE | OSRAM/SYLVANIA | PHILIPS |
|------------------------------------|-----------------------------|----------------------|
| ChromaFit™ Multi-Vapor® | — | — |
| ConstantColor® CMH® | Powerball® MCP | MasterColor® CDM |
| Deluxe Lucalox® | — | Ceramalux™ Comfort |
| E-Z Lux® | Unalux® | Ceramalux™ Retrolux |
| Ecolux® | Lumalux ECO® | Ceramalux Alto® |
| Ecolux® NC | Lumalux Plus™/ECO® | Ceramalux Alto® Plus |
| High Output Multi-Vapor® | Super Metalarc® | Metal Halide |
| Horizontal Multi-Vapor® | Super Metalarc® | — |
| Lucalox® | Lumalux® | Ceramalux™ |
| Multi-Vapor® | Metalarc® | Metal Halide |
| Protected High Output Multi-Vapor® | Metalarc® Pro-Tech™ | — |
| PulseArc® | Super Metalarc® Pulse Start | Pulse Start |

| GE | OSRAM/SYLVANIA | PHILIPS |
|---------------------------|-----------------------|-----------------------------|
| Standby Longlife Lucalox® | Lumalux® Standby | Instant Restrike Ceramalux™ |
| Watt-Miser® Multi-Vapor® | Metalarc® Supersaver® | — |

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturers' performance specifications should be consulted. Lamp performance may be affected by environmental conditions, ballast type and/or other auxiliary equipment.

Headings in this catalog section

The following terms and descriptions can help you when checking High Intensity Discharge lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families, lamps are listed by wattage. In each of these wattage groups, lamps are listed by bulb shape.

Bulb Shape:

Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).

Energy Used – Nominal Watts:

Energy Used (as defined by FTC Lamp Label Rules). To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000.

Mean Lumens:

Lamp light output (lumens) at 40% of rated lamp life for Metal Halide lamps and 50% of rated life for Mercury and HPS lamps.

CBCP (Center Beam Candlepower):

For reflector-type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam. Used only for ConstantColor® CMH® Metal Halide Lamps.

Color Temperature Kelvins (K):

A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value the whiter or "cooler" the light appears.

Color Rendering Index (CRI):

An indication of the ability of the lamp to render object colors in a normal, natural way. The higher the number (0-100), the better the color appearance.

Additional Information:

Typical application and/or other important information.

Footnotes:

See page 3-19.

Warning and Caution Notices:

See page 3-21.

LET (Lamp Enclosure Type):

Describes fixture requirements for this lamp.

OP (Operating Position)

LCL (in):

Distance between the center of the filament and the Light Center Length reference plane, in inches.

Order Code:

It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

Case Qty:

Number of product units packed in a case.

ANSI Ballast Type:

Ballast type used to operate lamp.

Initial Lumens:

Initial light output.

Rated Life (hours):

Lamp burning hours to median life expectancy.

MOL (in):

Maximum Overall Length in inches.

Description:

The lamp's identification code.

Base:

The type of base.

| Bulb Shape | Base | LET | OP | Watts | MOL (in) | LCL (in) | Order Code | Description | ANSI Ballast Type | Case Qty | CBCP | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Additional Information | Footnotes | Warning and Caution Notices |
|------------|------|-----|----|-------|----------|----------|------------|-------------|-------------------|----------|------|------------------|----------------|-------------|--------------|-----|------------------------|-----------|-----------------------------|
|------------|------|-----|----|-------|----------|----------|------------|-------------|-------------------|----------|------|------------------|----------------|-------------|--------------|-----|------------------------|-----------|-----------------------------|

Constant Color CMH® Metal Halide Lamps

| CMH® MR16 | | | | | | | | | | | | | | | | | | | |
|-----------|------|---|---|----|------|--|-------|------------------|------|----|------|-------|------|--|------|----|--------------------------|----------|-----|
| MR16 | GX10 | O | U | 20 | 2.28 | | 85101 | CMH20MR16/830/SP | M156 | 12 | 9000 | 12000 | 1000 | | 3000 | 81 | 12 Spotlight, UV control | 33,39,51 | 107 |

CMH20MR16 / 830 / SP

Identifies as CMH® lamp.

Identifies the lamp's wattage.

Identifies the bulb shape.

Color temp. and CRI.

Additional information.

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape by using illustrations on pages 3-2 to 3-4.
2. Measure bulb diameter using ruler in Appendix section page D-1 to determine width in eighths of an inch.
3. Identify base type using table on page 3-5.
4. Find your lamp in the tabular data containing the bulb shape, size and base, which are all listed by wattage.

| Bulb Shape | Base | LET | OP | Watts | MOL (in) | LCL (in) | Order Code | Description | ANSI Ballast Type | Case Qty | CBCP | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Additional Information | Reduced Watts/ High Color Rendering | Footnotes | Warning and Caution Notices |
|---|------|-----|----|-------|----------|----------|------------|------------------|-------------------|----------|-------|------------------|----------------|-------------|--------------|-----|--|-------------------------------------|-----------|-----------------------------|
| Constant Color CMH® Metal Halide Lamps | | | | | | | | | | | | | | | | | | | | |
| CMH® MR16 ULTRA | | | | | | | | | | | | | | | | | | | | |
| MR16 | GX10 | O | U | 39 | 2.28 | | 62292 | CMH39MR16UL93/SP | C130/M130 | 12 | 16000 | 16500 | 2200 | | 3000 | 90 | 12 Spotlight, UV Control, Vertical +/-60 degrees; Electronic Ballast | | 33,39,51 | 107 |
| | | O | U | 39 | 2.28 | | 62293 | CMH39MR16UL93/FL | C130/M130 | 12 | 5500 | 16500 | 2200 | | 3000 | 90 | 25 Spotlight, UV Control, Vertical +/-60 degrees; Electronic Ballast | | 33,39,51 | 107 |
| | | O | U | 39 | 2.28 | | 62294 | CMH39MR16UL93WFL | C130/M130 | 12 | 3000 | 16500 | 2200 | | 3000 | 90 | 40 Spotlight, UV Control, Vertical +/-60 degrees; Electronic Ballast | | 33,39,51 | 107 |
| CMH® MR16 | | | | | | | | | | | | | | | | | | | | |
| MR16 | GX10 | O | U | 20 | 2.28 | | 85101 | CMH20MR16/830/SP | C156/M156 | 12 | 9000 | 12000 | 1000 | | 3000 | 81 | 12 Spotlight, UV Control | | 33,39,51 | 107 |
| | | O | U | 20 | 2.28 | | 85110 | CMH20MR16/830/FL | C156/M156 | 12 | 2900 | 12000 | 1000 | | 3000 | 81 | 25 Floodlight, UV Control | | 33,39,51 | 107 |
| | | O | U | 20 | 2.28 | | 97638 | CMH20MR16/830WFL | C156/M156 | 12 | 1500 | 12000 | 1000 | | 3000 | 81 | 40 Wideflood, UV Control | | 33,39,51 | 107 |
| | | O | U | 39 | 2.28 | | 71488 | CMH39MR16/930/SP | C130/M130 | 12 | 16000 | 10000 | 2200 | | 3000 | 90 | 12 Spotlight, UV Control | | 33,39,51 | 107 |
| | | O | U | 39 | 2.28 | | 71489 | CMH39MR16/930/FL | C130/M130 | 12 | 5500 | 10000 | 2200 | | 3000 | 90 | 25 Floodlight, UV Control | | 33,39,51 | 107 |
| | | O | U | 39 | 2.28 | | 71490 | CMH39MR16/930WFL | C130/M130 | 12 | 3000 | 10000 | 2200 | | 3000 | 90 | 40 Wideflood, UV Control | | 33,39,51 | 107 |
| | | O | U | 39 | 2.28 | | 71491 | CMH39MR16/942/SP | C130/M130 | 12 | 16000 | 12000 | 2200 | | 4000 | 92 | 12 Spotlight, UV Control | | 33,39,51 | 107 |
| | | O | U | 39 | 2.28 | | 71492 | CMH39MR16/942/FL | C130/M130 | 12 | 5500 | 12000 | 2200 | | 4000 | 92 | 25 Floodlight, UV Control | | 33,39,51 | 107 |
| | | O | U | 39 | 2.28 | | 71493 | CMH39MR16/942WFL | C130/M130 | 12 | 3000 | 12000 | 2200 | | 4000 | 92 | 40 Wideflood, UV Control | | 33,39,51 | 107 |
| CMH® PAR Integral Ballast | | | | | | | | | | | | | | | | | | | | |
| PAR38 | E26 | O | U | 23 | 5.35 | | 76224 | CMHi23P38SP/ECO | | 6 | 28000 | 12000 | 1400 | | 3000 | 81 | 10 Spotlight, UV Control | | 33,39 | 100 |
| | | O | U | 23 | 5.35 | | 76225 | CMHi23P38FL/ECO | | 6 | 6000 | 12000 | 1400 | | 3000 | 81 | 25 Floodlight, UV Control | | 33,39 | 100 |
| | | O | U | 23 | 5.35 | | 76226 | CMHi23P38WFL/ECO | | 6 | 2800 | 12000 | 1400 | | 3000 | 81 | 36 Wideflood, UV Control | | 33,39 | 100 |
| CMH® PAR | | | | | | | | | | | | | | | | | | | | |
| PAR20 | E26 | O | U | 20 | 3.60 | | 29485 | CMH20PAR20/SP | C156/M156 | 15 | 13000 | 12000 | 1000 | | 3000 | 81 | 8 Spotlight, UV Control | | 33,39,51 | 107 |
| | | O | U | 20 | 3.60 | | 29486 | CMH20PAR20/FL | C156/M156 | 15 | 3750 | 12000 | 1000 | | 3000 | 81 | 25 Floodlight, UV Control | | 33,39,51 | 107 |
| PAR30L | E26 | O | U | 20 | 4.75 | | 29487 | CMH20PAR30/SP10 | C156/M156 | 6 | 19800 | 12000 | 1200 | | 3000 | 81 | 10 Spotlight, UV Control | | 33,39,51 | 107 |
| | | O | U | 20 | 4.75 | | 29488 | CMH20PAR30/SP15 | C156/M156 | 6 | 14500 | 12000 | 1200 | | 3000 | 81 | 15 Spotlight, UV Control | | 33,39,51 | 107 |
| | | O | U | 20 | 4.75 | | 29489 | CMH20PAR30/FL25 | C156/M156 | 6 | 4900 | 12000 | 1200 | | 3000 | 81 | 25 Floodlight, UV Control | | 33,39,51 | 107 |
| PAR20 | E26 | O | U | 39 | 3.60 | | 42068 | CMH39UPAR20FL25 | C130/M130 | 15 | 7500 | 10000 | 2100 | | 3000 | 86 | 25 Floodlight, UV Control | | 33,39,45 | 107 |
| | | O | U | 39 | 3.60 | | 42069 | CMH39UPAR20SP10 | C130/M130 | 15 | 22000 | 10000 | 2100 | | 3000 | 86 | 10 Spotlight, UV Control | | 33,39,45 | 107 |
| | | O | U | 39 | 3.60 | | 96526 | CMH39PAR20/NSP4K | C130/M130 | 15 | 19450 | 10000 | 1950 | | 4200 | 90 | 10 Spotlight, UV Control | | 33,39,45 | 107 |
| | | O | U | 39 | 3.60 | | 96527 | CMH39PAR20/FL4K | C130/M130 | 15 | 6950 | 10000 | 1950 | | 4200 | 90 | 25 Floodlight, UV Control | | 33,39,45 | 107 |
| PAR30L | E26 | O | U | 39 | 4.75 | | 42066 | CMH39PAR30L/SP15 | C130/M130 | 6 | 29000 | 10000 | 2400 | | 3000 | 81 | 15 Spotlight, UV Control | | 33,39,45 | 107 |
| | | O | U | 39 | 4.75 | | 42067 | CMH39PAR30L/FL25 | C130/M130 | 6 | 11000 | 10000 | 2400 | | 3000 | 81 | 25 Floodlight, UV Control | | 33,39,45 | 107 |
| | | O | U | 39 | 4.75 | | 45066 | CMH39/PAR30LSP10 | C130/M130 | 6 | 39600 | 10000 | 2400 | | 3000 | 81 | 10 Spotlight, UV Control | | 33,39,45 | 107 |
| | | O | U | 39 | 4.75 | | 96528 | CMH39PAR30LNSP4K | C130/M130 | 6 | 36700 | 10000 | 2225 | | 4200 | 89 | 10 Spotlight, UV Control | | 33,39,45 | 107 |
| | | O | U | 39 | 4.75 | | 96529 | CMH39PAR30L/SP4K | C130/M130 | 6 | 26900 | 10000 | 2225 | | 4200 | 89 | 15 Spotlight, UV Control | | 33,39,45 | 107 |
| | | O | U | 39 | 4.75 | | 96530 | CMH39PAR30L/FL4K | C130/M130 | 6 | 10200 | 10000 | 2225 | | 4200 | 89 | 25 Floodlight, UV Control | | 33,39,45 | 107 |
| | | O | U | 70 | 4.75 | | 22152 | CMH70PAR30L830SP | C139/M98 | 6 | 43000 | 13000 | 4700 | | 3000 | 82 | 15 Spotlight, UV Control | | 33,39,45 | 107 |
| | | O | U | 70 | 4.75 | | 22159 | CMH70PAR30L830FL | C139/M98 | 6 | 10000 | 13000 | 4700 | | 3000 | 82 | 40 Floodlight, UV Control | | 33,39,45 | 107 |

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4. All footnotes, warning and caution notices found at the end of this section (page 3-19).

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

High Intensity Discharge Lamps

| Bulb Shape | Base | LET | OP | Watts | MOL (in) | LCL (in) | Order Code | Description | ANSI Ballast Type | Case Qty | CBCP | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Additional Information | Reduced Watts/ High Color Rendering | Footnotes | Warning and Caution Notices |
|---|------|-----|-----|-------|----------|----------|------------------|------------------|-------------------|----------|-------|------------------|----------------|---------------|--------------|--------|--|-------------------------------------|-----------|-----------------------------|
| Constant Color CMH® Metal Halide Lamps (continued) | | | | | | | | | | | | | | | | | | | | |
| CMH® PAR (continued) | | | | | | | | | | | | | | | | | | | | |
| PAR38 | E26 | O | U | 70 | 5.31 | | 45675 | CMH70PAR38SP/ECO | C98/ M139/ M143/ | 6 | 40000 | 10000 | 4800 | | 3000 | 82 | 15 Spotlight, UV Control | | 33,39 | 108 |
| | | O | U | 70 | 5.31 | | 45677 | CMH70PAR38FL/ECO | C98/ M139/ M143/ | 6 | 14000 | 10000 | 4800 | | 3000 | 82 | 25 Floodlight, UV Control | | 33,39 | 108 |
| | | O | U | 70 | 5.31 | | 45679 | CMH70PAR38WF/ECO | C98/ M139/ M143/ | 6 | 4400 | 10000 | 4800 | | 3000 | 82 | 60 Wide Floodlight, UV Control | | 33,39 | 108 |
| | | O | U | 100 | 5.31 | | 45680 | CMH100PAR38SPECO | C90/ M90/ M140 | 6 | 45000 | 10000 | 6500 | | 3000 | 81 | 15 Spotlight, UV Control | | 33,39 | 108 |
| | | O | U | 100 | 5.31 | | 45681 | CMH100PAR38FLECO | C90/ M90/ M140 | 6 | 15000 | 10000 | 6500 | | 3000 | 81 | 25 Floodlight, UV Control | | 33,39 | 108 |
| | | O | U | 100 | 5.31 | | 45682 | CMH100PAR38WFECO | C90/ M90/ M140 | 6 | 5500 | 10000 | 6500 | | 3000 | 81 | 60 Wide Floodlight, UV Control | | 33,39 | 108 |
| CMH® Elliptical | | | | | | | | | | | | | | | | | | | | |
| BD17 | E26 | E | U | 70 | 5.43 | 3.37 | 22119 | CMH70/U/830/MED | M139/ M98/ C98 | 6 | | 15000 | 6300 | 4100 | 3000 | 80 | Clear | | 33 | 116 |
| | | E | U | 70 | 5.43 | 3.37 | 22124 | CMH70/C/U/830MED | M139/ M98/ C98 | 6 | | 15000 | 6000 | 4000 | 3000 | 80 | Coated | | 33 | 116 |
| | | E | U | 100 | 5.43 | 3.37 | 22127 | CMH100/U/830/MED | C90/ M90/ M140 | 6 | | 10000 V 15000 H | 9200 | 6600 V 6400 H | 3000 | 83 | Clear | | 33 | 116 |
| | | E | U | 100 | 5.43 | 3.37 | 22137 | CMH100/C/U830MED | C90/ M90/ M140 | 6 | | 10000 V 15000 H | 8700 | 6300 | 3000 | 83 | Coated | | 33 | 116 |
| CMH® Elliptical Open-Rated | | | | | | | | | | | | | | | | | | | | |
| ED17 | E26 | O | U | 70 | 5.43 | 3.37 | 31069 | CMH70U830MED/O | M143/ M98/ C98 | 6 | | 15000 | 5700 | 4100 | 3000 | 80 | Clear | | 33 | 106 |
| | | O | U | 70 | 5.43 | 3.37 | 31070 | CMH70CU830MED/O | M143/ M98/ C98 | 6 | | 15000 | 5700 | 4100 | 3000 | 80 | Coated | | 33 | 106 |
| | | O | U | 70 | 5.43 | 3.37 | 31073 | CMH70U942MED/O | M143/ M98/ C98 | 6 | | 15000 | 5500 | 4200 | 4000 | 90 | Clear | | 33 | 106 |
| | | O | U | 70 | 5.43 | 3.37 | 31074 | CMH70CU942MED/O | M143/ M98/ C98 | 6 | | 15000 | 5200 | 4000 | 4000 | 90 | Coated | | 33 | 106 |
| | O | U | 150 | 5.43 | 3.37 | 31065 | CMH150U830MED/O | C102/ M102/ M142 | 6 | | 12000 | 12900 | 9500 | 3000 | 80 | Clear | | 33 | 106 | |
| | O | U | 150 | 5.43 | 3.37 | 31066 | CMH150CU830MED/O | C102/ M102/ M142 | 6 | | 12000 | 11900 | 8800 | 3000 | 80 | Coated | | 33 | 106 | |
| | O | U | 150 | 5.43 | 3.37 | 31067 | CMH150U942MED/O | C102/ M102/ M142 | 6 | | 15000 | 12000 | 9000 | 4200 | 90 | Clear | | 33 | 106 | |
| | O | U | 150 | 5.43 | 3.37 | 31068 | CMH150CU942MED/O | C102/ M102/ M142 | 6 | | 15000 | 11000 | 8300 | 4200 | 90 | Coated | | 33 | 106 | |
| CMH® Single-Ended G12 ULTRA | | | | | | | | | | | | | | | | | | | | |
| T6 | G12 | E | U | 39 | 3.56 | 2.18 | 79399 | CMH39/930G12ULR | C130/ M130 | 12 | | 16500 | 3600 | 3060 | 3000 | 87 | UV Control, Vertical +/-60 degrees; Electronic Ballast | | 33,39,51 | 104 |
| | | E | U | 70 | 3.56 | 2.18 | 73056 | CMH70U930G12ULR | C139/ M139 | 12 | | 18000 | 6400 | 5300 | 3000 | 87 | UV Control | | 33,39,45 | 104 |

| Bulb Shape | Base | LET | OP | Watts | MOL (in) | LCL (in) | Order Code | Description | ANSI Ballast Type | Case Qty | CBCP | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Additional Information | Reduced Watts/High Color Rendering | Footnotes | Warning and Caution Notices |
|---|-------|-----|-----|-------|----------|----------|------------|-------------------|-------------------|----------|------|------------------|----------------|-------------|--------------|---------|--|------------------------------------|-------------|-----------------------------|
| Constant Color CMH® Metal Halide Lamps (continued) | | | | | | | | | | | | | | | | | | | | |
| CMH® Single-Ended G12 | | | | | | | | | | | | | | | | | | | | |
| T4.5 | G12 | E | U | 20 | 3.56 | 2.18 | 29703 | CMH20T/U/830/G12 | C156/M156 | 12 | | 12000 | 1600 | 1200 | 3000 | 81 | UV Control | | 33,39,51 | 104 |
| | | E | U | 39 | 3.56 | 2.18 | 20153 | CMH39TUVUCU830G12 | C130/M130 | 12 | | 16500 | 3400 | 2300 | 3000 | 84 | UV Control | | 33,39,45,53 | 104 |
| | | E | U | 39 | 3.56 | 2.18 | 29696 | CMH39T/U/942/G12 | C130/M130 | 12 | | 18000 | 3200 | 2600 | 4200 | 88 | UV Control | | 33,39,45,53 | 104 |
| T6 | G12 | E | U | 70 | 3.56 | 2.18 | 20016 | CMH70TU/830/G12 | C139/M139 | 12 | | 15000 | 6200 | 4700 | 3000 | 83 | UV Control | | 33,39,45 | 104 |
| | | E | U | 70 | 3.56 | 2.18 | 20023 | CMH70TU/942/G12 | C139/M139 | 12 | | 15000 | 6300 | 4700 | 4200 | 91 | UV Control | | 33,39,45 | 104 |
| | | E | U | 150 | 3.93 | 2.18 | 20017 | CMH150TU/830/G12 | C142/M102 | 12 | | 12000 | 14000 | 11000 | 3000 | 82 | UV Control | | 33,39,45 | 104 |
| | | E | U | 150 | 3.93 | 2.18 | 20018 | CMH150TU/942/G12 | C142/M102 | 12 | | 12000 | 13000 | 11000 | 4200 | 94 | UV Control | | 33,39,45 | 104 |
| CMH® Double-Ended TD | | | | | | | | | | | | | | | | | | | | |
| T6 | Rx7s | E | H45 | 70 | 4.50 | 2.25 | 92587 | CMH70TD/830RX7S | M85/M139 | 12 | | 15000 | 7000 | 5600 | 3000 | 81 | UV Control | | 33,39 | 109 |
| | | E | H45 | 70 | 4.50 | 2.25 | 92588 | CMH70TD/942RX7S | M85/M139 | 12 | | 15000 | 7000 | 5600 | 4200 | 88 | UV Control | | 33,39 | 109 |
| T7 | Rx7s | E | H45 | 150 | 5.37 | 2.62 | 92589 | CMH150TD830RX7S | M81/M142 | 12 | | 15000 | 14000 | 11500 | 3000 | 80 | UV Control | | 33,39 | 109 |
| | | E | H45 | 150 | 5.37 | 2.62 | 92590 | CMH150TD942RX7S | M81/M142 | 12 | | 15000 | 14000 | 11500 | 4200 | 93 | UV Control | | 33,39 | 109 |
| CMH® GU6.5 ULTRA | | | | | | | | | | | | | | | | | | | | |
| T4 | GU6.5 | E | U | 39 | 2.05 | 1.18 | 62291 | CMH39ULR930GU6.5 | C130/M130 | 12 | | 16500 | 3500 | 2835 | 3000 | 87 | UV Control, Vertical +/-60 degrees; Electronic Ballast | | 33,39,51 | 104 |
| CMH® GU6.5 | | | | | | | | | | | | | | | | | | | | |
| T4 | GU6.5 | E | U | 20 | 2.05 | 1.18 | 85086 | CMH20T/U830GU6.5 | C156/M156 | 12 | | 12000 | 1615 | 1066 | 3000 | 81 | UV Control | | 33,39,51 | 104 |
| | | E | U | 39 | 2.05 | 1.18 | 71484 | CMH39T/U930GU6.5 | C130/M130 | 12 | | 10000 | 3400 | 2300 | 3000 | 88 | UV Control | | 33,39,51 | 104 |
| | | E | U | 39 | 2.05 | 1.18 | 71487 | CMH39T/U942GU6.5 | C130/M130 | 12 | | 12000 | 3400 | 2600 | 4000 | 90 | UV Control | | 33,39,51 | 104 |
| CMH® Mini ULTRA | | | | | | | | | | | | | | | | | | | | |
| T4.5 | G8.5 | E | U | 39 | 3.37 | 2 | 79400 | CMH39/930G8.5ULR | C130/M130 | 12 | | 16500 | 3600 | 3060 | 3000 | 87 | UV Control, Vertical +/-60 degrees; Electronic Ballast | | 33,39,51 | 104 |
| | | E | U | 70 | 3.37 | 2.00 | 73057 | CMH70U930G8.5ULR | C139/M139 | 12 | | 18000 | 6200 | 5140 | 3000 | 88 | UV Control | | 33,39,45 | 104 |
| CMH® Mini's | | | | | | | | | | | | | | | | | | | | |
| T4.5 | G8.5 | E | U | 20 | 3.37 | 2.00 | 92696 | CMH20TCU830/G8.5 | C156/M156 | 12 | | 12000 | 1650 | 1090 | 3000 | 81 | UV Control | | 33,39,51 | 104 |
| | | E | U | 39 | 3.37 | 2.00 | 90352 | CMH39TCU830/G8.5 | C130/M130 | 12 | | 16500 | 3400 | 2300 | 3000 | 84 | UV Control | | 33,39,45,53 | 104 |
| | | E | U | 39 | 3.37 | 2.00 | 29698 | CMH39TCU942/G8.5 | C130/M130 | 12 | | 18000 | 3200 | 2600 | 4200 | 88 | UV Control | | 33,39,45,53 | 104 |
| | | E | U | 70 | 3.37 | 2.00 | 92585 | CMH70TCU830G8.5 | C139/M139 | 12 | | 15000 | 6200 | 4400 | 3000 | 83 | UV Control | | 33,39,45 | 104 |
| | | E | U | 70 | 3.37 | 2.00 | 29701 | CMH70TCU942/G8.5 | C139/M139 | 12 | | 15000 | 6200 | 4600 | 4200 | 90 | UV Control | | 33,39,45 | 104 |
| CMH® Chromafit™ | | | | | | | | | | | | | | | | | | | | |
| T15 | E39 | E | U | 250 | 9.75 | 5.75 | 93357 | CMH250U/830/R | S50/M168 | 12 | | 24000 | 25000 | 20000 | 3000 | 85 | | | 33 | 105 |
| ED18 | E39 | E | U | 400 | 9.75 | 5.75 | 93295 | CMH400U/830/R | S51/M169 | 12 | | 20000 | 41000 | 31300 | 3000H 3600V | 82H 80V | | | 33,45,49 | 105 |
| High-Watt CMH® SPXX | | | | | | | | | | | | | | | | | | | | |
| ED28 | EX39 | O | V | 250 | 8.31 | 5.00 | 48429 | CMH250V/PA/O | | 12 | | 20000 | 23000 | 18400 | 4100 | 90 | Clear | | 33,45,52 | 106 |
| | | O | V | 250 | 8.31 | 5.00 | 48432 | CMH250C/V/PA/O | | 12 | | 20000 | 22000 | 17600 | 4100 | 90 | Coated | | 33,45,52 | 106 |
| ED37 | EX39 | O | V | 320 | 11.31 | 7.00 | 17264 | CMH320V/PA/O | | 6 | | 20000 | 31000 | 24800 | 4100 | 90 | Clear | | 33,45,52 | 106 |
| | | O | V | 320 | 11.31 | 7.00 | 17267 | CMH320C/V/PA/O | | 6 | | 20000 | 30000 | 24000 | 4100 | 90 | Coated | | 33,45,52 | 106 |
| | | O | V | 350 | 11.31 | 7.00 | 20035 | CMH350V/PA/O | | 6 | | 20000 | 33000 | 26400 | 4000 | 90 | Clear | | 33,45,52 | 106 |
| | | O | V | 350 | 11.31 | 7.00 | 20036 | CMH350C/V/PA/O | | 6 | | 20000 | 32000 | 25600 | 4000 | 90 | Coated | | 33,45,52 | 106 |
| | | O | V | 400 | 11.31 | 7 | 17259 | CMH400V/PA/O | | 6 | | 20000 | 37000 | 29600 | 4200 | 90 | Clear | | 33,45,52 | 106 |
| | | O | V | 400 | 11.31 | 7 | 17260 | CMH400C/V/PA/O | | 6 | | 20000 | 36000 | 28800 | 4200 | 90 | Coated | | 33,45,52 | 106 |

High Intensity Discharge Lamps

| Bulb Shape | Base | LET | OP | Watts | MOL (in) | LCL (in) | Order Code | Description | ANSI Ballast Type | Case Qty | CBCP | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Additional Information | Reduced Watts/ High Color Rendering | Footnotes | Warning and Caution Notices |
|--|------|-----|-----|-------|----------|----------|------------|---------------------|-------------------|----------|------|------------------|----------------|---------------|--------------|-----|---------------------------|-------------------------------------|-----------|-----------------------------|
| PulseArc® Multi-Vapor® Metal Halide Lamps | | | | | | | | | | | | | | | | | | | | |
| 50 Watts | | | | | | | | | | | | | | | | | | | | |
| BD17 | E26 | E | U | 50 | 5.43 | 3.43 | 10361 | MXR50/U/MED | M110 | 6 | | 10000 | 3200 | 2100 | 3700 | 60 | Clear | | | 118 |
| | | E | U | 50 | 5.43 | 3.43 | 10364 | MXR50/C/U/MED | M110 | 6 | | 10000 | 3000 | 2000 | 3400 | 65 | Coated | | | 118 |
| 70 Watts | | | | | | | | | | | | | | | | | | | | |
| BD17 | E26 | E | U | 70 | 5.43 | 3.43 | 22158 | MXR70/U/MED | M98 | 6 | | 12000 | 5500 | 3500 | 3500 | 55 | Clear | | | 118 |
| | | E | U | 70 | 5.43 | 3.43 | 22162 | MXR70/C/U/MED | M98 | 6 | | 12000 | 5300 | 3300 | 3200 | 55 | Coated | | | 118 |
| | | E | U | 70 | 5.43 | 3.43 | 12590 | MVR70/U/MED | M98 | 6 | | 12000 | 5500 | 3000 | 4000 | 65 | Clear | | | 118 |
| | | E | U | 70 | 5.43 | 3.43 | 12594 | MVR70/C/U/MED | M98 | 6 | | 12000 | 5250 | 2800 | 4000 | 65 | Coated | | | 118 |
| 100 Watts | | | | | | | | | | | | | | | | | | | | |
| BD17 | E26 | E | U | 100 | 5.43 | 3.43 | 18680 | MXR100/U/MED | M90 | 6 | | 15000 | 9000 | 6200 | 3200 | 65 | Clear | | | 118 |
| | | E | U | 100 | 5.43 | 3.43 | 18679 | MXR100/C/U/MED | M90 | 6 | | 15000 | 8500 | 5900 | 3200 | 65 | Coated | | | 118 |
| | | E | U | 100 | 5.43 | 3.43 | 12652 | MVR100/U/MED | M90 | 6 | | 15000 | 9500 | 5800 | 4000 | 70 | Clear | | | 118 |
| | | E | U | 100 | 5.43 | 3.43 | 12653 | MVR100/C/U/MED | M90 | 6 | | 15000 | 8800 | 4900 | 4000 | 70 | Coated | | | 118 |
| 150 Watts | | | | | | | | | | | | | | | | | | | | |
| BD17 | E26 | E | U | 150 | 5.43 | 3.43 | 22935 | MXR150/U/MED | M102 | 6 | | 15000 | 13300 | 10000 | 3400 | 60 | Clear | | | 118 |
| | | E | U | 150 | 5.43 | 3.43 | 22936 | MXR150/C/U/MED | M102 | 6 | | 15000 | 12600 | 9500 | 3100 | 60 | Coated | | | 118 |
| | | E | U | 150 | 5.43 | 3.43 | 12598 | MVR150/U/MED | M102 | 6 | | 15000 | 14000 | 10500 | 4300 | 65 | Clear | | | 118 |
| | | E | U | 150 | 5.43 | 3.43 | 12604 | MVR150/C/U/MED | M102 | 6 | | 15000 | 13300 | 10000 | 3900 | 70 | Coated | | | 118 |
| 175 Watts | | | | | | | | | | | | | | | | | | | | |
| ED23.5 | E39 | E | VBU | 175 | 7.50 | 5.00 | 11185 | MXR175/C/VBU/PA | M137/M152 | 6 | | 15000 | 16000 | 12000 | 3200 | 65 | Coated | | 43 | 117 |
| | | E | VBU | 175 | 7.50 | 5.00 | 12622 | MVR175/VBU/PA | M137/M152 | 6 | | 15000 | 17500 | 13000 | 4000 | 70 | Clear | | 43 | 117 |
| | | E | VBU | 175 | 7.50 | 5.00 | 12633 | MVR175/C/VBU/PA | M137/M152 | 6 | | 15000 | 16500 | 12500 | 4000 | 70 | Coated | | 43 | 117 |
| BD17 | E26 | E | VBU | 175 | 5.75 | 3.43 | 12636 | MVR175/VBU/MEDPA | M137/M152 | 6 | | 15000 | 17500 | 13000 | 4000 | 70 | Clear | | 43 | 117 |
| | | E | VBU | 175 | 5.75 | 3.43 | 12637 | MVR175/CVBU/MEDPA | M137/M152 | 6 | | 15000 | 16500 | 12500 | 4000 | 70 | Coated | | 43 | 117 |
| 250 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | E39 | E | U | 250 | 8.25 | 5.00 | 78665 | MVR250/U/PA | M138/M153 | 12 | | 12000H/15000V | 18600H/22400V | 12000H/14000V | 3900 | 60 | Clear | | 43 | 116 |
| | | E | VBU | 250 | 8.25 | 5.00 | 26317 | MVR250/VBU/PA | M138/M153 | 12 | | 15000 | 23000 | 17000 | 4200 | 55 | Clear | | 43 | 116 |
| | | E | VBU | 250 | 8.25 | 5.00 | 26319 | MVR250/C/VBU/PA | M138/M153 | 12 | | 15000 | 21500 | 15500 | 3900 | 55 | Coated | | 43 | 116 |
| | | E | HOR | 250 | 8.25 | 5.00 | 72882 | MVR250/HOR/PA | M138/M153 | 12 | | 12000 | 20000 | 13700 | 4400 | 60 | Clear | | 43 | 117 |
| 320 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | E39 | E | VBU | 320 | 8.25 | 5.00 | 27501 | MVR320/VBU/HO/PA | M132/M154 | 12 | | 20000 | 31000 | 18000 | 4000 | 60 | Clear | | 43 | 117 |
| | | E | VBU | 320 | 8.25 | 5.00 | 27502 | MVR320/C/VBU/HOPA | M132/M154 | 12 | | 20000 | 30000 | 16500 | 3700 | 60 | Coated | | 43 | 117 |
| | | E | VBU | 320 | 8.25 | 5.00 | 45666 | MVR320/VBU/XHO/PA | M132/M154 | 12 | | 20000 | 34000 | 25000 | 4000 | 65 | Extra High Output | | 43 | 116 |
| | | E | VBU | 320 | 8.25 | 5.00 | 45669 | MVR320/C/VBU/XHO/PA | M132/M154 | 12 | | 20000 | 33000 | 23000 | 3700 | 70 | Extra High Output | | 43 | 116 |
| | | E | HOR | 320 | 8.25 | 5.00 | 72884 | MVR320/HOR/PA | M132/M154 | 12 | | 20000 | 30000 | 19100 | 4100 | 65 | Clear | | 43 | 117 |
| 350 Watts | | | | | | | | | | | | | | | | | | | | |
| ED37 | E39 | E | VBU | 350 | 11.50 | 7.00 | 23729 | MVR350VBUXHOPA/E | M131 | 6 | | 20000 | 36500 | 27000 | 4000 | 60 | Extra High Output | | 43 | 117 |
| | | E | VBU | 350 | 11.50 | 7.00 | 23738 | MVR350VBUXHOPA/E | M131 | 6 | | 20000 | 34500 | 25000 | 3700 | 60 | Extra High Output | | 43 | 117 |
| 400 Watts | | | | | | | | | | | | | | | | | | | | |
| ED37 | E39 | E | U | 400 | 11.50 | 7.00 | 78666 | MVR400/U/PA | M135/M155 | 6 | | 15000H/20000V | 31200H/39400V | 18000H/22000V | 4000 | 60 | Clear | | 43 | 116 |
| | | S | VBU | 400 | 11.50 | 7.00 | 45664 | MVR400/VBU/HO/PA | M135/M155 | 6 | | 20000 | 41000 | 31000 | 4000 | 60 | Clear | | 49 | 121 |
| | | S | VBU | 400 | 11.50 | 7.00 | 12642 | MVR400/VBU/XHOPA | M135/M155 | 6 | | 20000 | 44000 | 33000 | 4000 | 55 | Extra High Output | | 49 | 121 |
| | | S | VBU | 400 | 11.50 | 7.00 | 12644 | MVR400/CVBUXHOPA | M135/M155 | 6 | | 20000 | 42000 | 31500 | 3700 | 55 | Coated, Extra High Output | | 49 | 121 |
| | | E | HOR | 400 | 11.50 | 7.00 | 72886 | MVR400/HOR/PA | M135/M155 | 6 | | 20000 | 40000 | 22300 | 4100 | 65 | Clear | | 43,49 | 117 |
| | | E | VBD | 400 | 11.50 | 7.00 | 46632 | MVR400VBD/XHO/PA | M135/M155 | 6 | | 20000 | 44000 | 35200 | 4000 | 65 | Extra High Output | | 43,49 | 116 |

| Bulb Shape | Base | LET | OP | Watts | MOL (in) | LCL (in) | Order Code | Description | ANSI Ballast Type | Case Qty | CBCP | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Additional Information | Reduced Watts/High Color Rendering | Footnotes | Warning and Caution Notices |
|--|--------|-----|-----|-------|----------|----------|------------|--------------------|-------------------|----------|------|------------------|-----------------|---------------|--------------|-----|----------------------------------|------------------------------------|-----------|-----------------------------|
| PulseArc® Multi-Vapor® Metal Halide Lamps (continued) | | | | | | | | | | | | | | | | | | | | |
| ED28 | E39 | E | VBU | 400 | 8.25 | 5.00 | 46271 | MVR400/VBUED28PA | M135/M155 | 12 | | 20000 | 44000 | 28500 | 4000 | 65 | Clear | | 43,49 | 116 |
| | | E | VBU | 400 | 8.25 | 5.00 | 46272 | MVR400CVBUED28PA | M135/M155 | 12 | | 20000 | 42000 | 27500 | 3700 | 70 | Coated Compact | | 43,49 | 116 |
| | | E | HOR | 400 | 8.25 | 5.00 | 72885 | MVR400/HOR/ED28/PA | M135/M155 | 12 | | 20000 | 38000 | 21400 | 4100 | 65 | Clear Compact | | 43,49 | 117 |
| 750 Watts | | | | | | | | | | | | | | | | | | | | |
| BT37 | E39 | E | VBU | 750 | 11.50 | 7.00 | 27219 | MVR750/VBU/PA | M149 | 6 | | 16000 | 82000 | 60000 | 4000 | 65 | Clear | | 49 | 117 |
| | | E | VBU | 750 | 11.50 | 7.00 | 45560 | MVR750/C/VBU/PA | M149 | 6 | | 16000 | 72000 | 54000 | 3700 | 70 | Coated | | 49 | 117 |
| 1000 Watts | | | | | | | | | | | | | | | | | | | | |
| BT37 | E39 | E | U | 1000 | 11.50 | 7.00 | 10389 | MVR1000U/BT37/PA | M141 | 6 | | 9000H/12000V | 105000H/115000V | 82000H/90000V | 3900 | 65 | Clear | | 43,49 | 116 |
| Multi-Vapor® Metal Halide Lamps | | | | | | | | | | | | | | | | | | | | |
| 150 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | E39 | E | U | 150 | 8.25 | 5.00 | 13481 | MVR150U/W/M | M57/M107 | 12 | | 7500H/10000V | 11500H/13500V | 7200H/8500V | 4000 | 65 | Clear, Watt-Miser® | ↔ | | 117 |
| | | E | U | 150 | 8.25 | 5.00 | 13490 | MVR150C/U/W/M | M57/M107 | 12 | | 7500H/10000V | 10900H/12800V | 6900H/8000V | 3700 | 70 | Coated, Watt-Miser® | ↔ | | 117 |
| 175 Watts | | | | | | | | | | | | | | | | | | | | |
| BD17 | E26 | E | U | 175 | 5.75 | 3.43 | 18902 | MVR175U/MED | M57 | 6 | | 6000H/10000V | 11700H/14000V | 7400H/8800V | 4000 | 60 | Clear | | | 117 |
| | | E | U | 175 | 5.75 | 3.43 | 26432 | MVR175U/MED/CP | M57 | 4 | | 6000H/10000V | 11700H/13600V | 7400H/8800V | 4000 | 65 | Clear, Consumer Pack | | | 117 |
| | | E | U | 175 | 5.75 | 3.43 | 19976 | MVR175C/U/MED | M57 | 6 | | 6000H/10000V | 11900H/12900V | 7900H/8400V | 3900 | 60 | Coated | | | 117 |
| ED28 | E39 | E | U | 175 | 8.25 | 5.00 | 47760 | MVR175U | M57 | 12 | | 6000H/10000V | 11700H/13600V | 7900H/8800V | 4000 | 55 | Clear | | | 117 |
| | | E | U | 175 | 8.25 | 5.00 | 26433 | MVR175U/CP | M57 | 4 | | 6000H/10000V | 11700H/13600V | 7900H/8800V | 4000 | 65 | Clear, Consumer Pack | | | 117 |
| | | E | U | 175 | 8.25 | 5.00 | 47761 | MVR175C/U | M57 | 12 | | 6000H/10000V | 11900H/12900V | 7900H/8400V | 3900 | 55 | Coated | | | 117 |
| | | E | U | 175 | 8.25 | 5.00 | 17634 | MVR175/SP30U | M57 | 12 | | 6000H/10000V | 10300H/12000V | 6500H/7600V | 3000 | 70 | RE730 Phosphor Coating | | | 117 |
| PAR38 | E26 | E | U | 175 | 5.62 | | 25218 | MVR175/PAR38/FL1 | M57 | 6 | 6500 | 7500 | 12000 | | 3800 | 65 | Clear, One-Piece PAR | | | 117 |
| 250 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | E39 | E | U | 250 | 8.25 | 5.00 | 42729 | MVR250U | M58 | 12 | | 6000H/10000V | 19100H/20800V | 12400H/13500V | 4200 | 60 | Clear | | | 117 |
| | | E | U | 250 | 8.25 | 5.00 | 26434 | MVR250U/CP | M58 | 4 | | 6000H/10000V | 19100H/20800V | 12400H/13500V | 4200 | 65 | Clear, Consumer Pack | | | 117 |
| | | E | U | 250 | 8.25 | 5.00 | 42731 | MVR250C/U | M58 | 12 | | 6000H/10000V | 18200H/19800V | 11600H/13000V | 3900 | 60 | Coated | | | 117 |
| | | E | U | 250 | 8.25 | 5.00 | 17633 | MVR250/SP30U | M58 | 12 | | 6000H/10000V | 16600H/18000V | 10600H/11500V | 3000 | 70 | RE730 Phosphor Coating | | | 117 |
| 360 Watts | | | | | | | | | | | | | | | | | | | | |
| ED37 | E39 | S | U | 360 | 11.50 | 7.00 | 13495 | MVR360U/W/M/HO | M59/M165 | 6 | | 20000 | 36000 | 20000 | 4300 | 60 | Clear, Watt-Miser® | ↔ | 32,49 | 121 |
| 400 Watts | | | | | | | | | | | | | | | | | | | | |
| ED37 | E39 | S | U | 400 | 11.50 | 7.00 | 43828 | MVR400U | M59 | 6 | | 15000H/20000V | 33100H/38000V | 22100H/23500V | 4000 | 60 | Clear | | 49 | 121 |
| | | S | U | 400 | 11.50 | 7.00 | 26435 | MVR400U/CP | M59 | 4 | | 15000H/20000V | 33100H/36000V | 22100H/23500V | 4000 | 65 | Clear, Consumer Pack | | 49 | 121 |
| | | S | U | 400 | 11.50 | 7.00 | 43829 | MVR400C/U | M59 | 6 | | 15000H/20000V | 32200H/36000V | 19300H/23000V | 3700 | 60 | Coated | | 49 | 121 |
| | | S | U | 400 | 11.50 | 7.00 | 17632 | MVR400/SP30U | M59 | 6 | | 15000H/20000V | 28500H/31000V | 17100H/18600V | 3000 | 70 | RE730 Phosphor Coating | | 49 | 121 |
| ED28 | E39 | E | U | 400 | 8.25 | 5.00 | 18904 | MVR400U/ED28 | M59 | 12 | | 15000H/20000V | 33100H/38000V | 22100H/23500V | 4000 | 60 | Clear, Compact | | 49 | 117 |
| | | E | U | 400 | 8.25 | 5.00 | 19979 | MVR400C/U/ED28 | M59 | 12 | | 15000H/20000V | 32200H/36000V | 19300H/23000V | 4000 | 60 | Coated, Compact | | 49 | 117 |
| 1000 Watts | | | | | | | | | | | | | | | | | | | | |
| BT56 | E39 | S | U | 1000 | 15.37 | 9.50 | 41826 | MVR1000U | M47 | 6 | | 11000H/15000V | 100280H/108000V | 79000H/86000V | 4000 | 65 | Clear | | 49 | 121 |
| | | S | U | 1000 | 15.37 | 9.50 | 41827 | MVR1000C/U | M47 | 6 | | 11000H/15000V | 96600H/105000V | 73000H/80000V | 3700 | 65 | Coated | | 49 | 121 |
| BT37 | E39 | E | U | 1000 | 11.50 | 7.00 | 18205 | MVR1000U/BT37 | M47 | 6 | | 9000H/12000V | 105000H/115000V | 82000H/90000V | 3700 | 65 | Clear, Compact | | 49 | 121 |
| High Output and XHO Multi-Vapor® Metal Halide Lamps | | | | | | | | | | | | | | | | | | | | |
| 175 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | PosMog | E | HOR | 175 | 8.25 | 5.00 | 18105 | MVR175C/HOR | M57 | 12 | | 10000 | 14100 | 7500 | 3500 | 70 | Coated, Position Oriented Socket | | | 117 |

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4. All footnotes, warning and caution notices found at the end of this section (page 3-19).

High Intensity Discharge Lamps

| Bulb Shape | Base | LET | OP | Watts | MOL (in) | LCL (in) | Order Code | Description | ANSI Ballast Type | Case Qty | CBCP | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Additional Information | Reduced Watts/ High Color Rendering | Footnotes | Warning and Caution Notices |
|--|--------|-----|-----|-------|----------|----------|------------|------------------|-------------------|----------|-----------|------------------|-----------------|-----------------|--------------|-----|----------------------------------|-------------------------------------|-----------|-----------------------------|
| High Output and XHO Multi-Vapor® Metal Halide Lamps (continued) | | | | | | | | | | | | | | | | | | | | |
| 250 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | PosMog | E | HOR | 250 | 8.25 | 5.00 | 18101 | MVR250/HOR | M58 | 12 | | 15000 | 21000 | 10000 | 4200 | 65 | Clear, Position Oriented Socket | | | 117 |
| | | E | HOR | 250 | 8.25 | 5.00 | 18103 | MVR250/C/HOR | M58 | 12 | | 15000 | 19700 | 9400 | 4000 | 65 | Coated, Position Oriented Socket | | | 117 |
| 360 Watts - Watt-Miser® Energy-Saving Replacement for 400W Metal Halide | | | | | | | | | | | | | | | | | | | | |
| ED37 | E39 | S | VBU | 360 | 11.50 | 7.00 | 40053 | MVR360VBU/WM/XHO | M59 | 6 | | 20000 | 37000 | 24000 | 4200 | 60 | Extra High Output | ↗ | 32,49 | 121 |
| | | S | VBU | 360 | 11.50 | 7.00 | 40055 | MVR360C/VBUWMXHO | M59 | 6 | | 20000 | 35000 | 23000 | 4000 | 60 | Extra High Output | ↗ | 32,49 | 121 |
| 400 Watts | | | | | | | | | | | | | | | | | | | | |
| ED37 | E39 | S | VBU | 400 | 11.50 | 7.00 | 49657 | MVR400/VBU/HO | M59 | 6 | | 20000 | 41000 | 26500 | 4000 | 60 | High Output | | 49 | 121 |
| | | S | VBU | 400 | 11.50 | 7.00 | 20931 | MVR400SP30VBU/HO | M59 | 6 | | 20000 | 34000 | 20400 | 3200 | 70 | RE730 Phosphor Coating | | 49 | 121 |
| | | S | VBU | 400 | 11.50 | 7.00 | 13923 | MVR400/VBU/XHO | M59 | 6 | | 20000 | 43000 | 28000 | 4000 | 55 | Extra High Output | | 49 | 121 |
| | | S | VBU | 400 | 11.50 | 7.00 | 13924 | MVR400/C/VBU/XHO | M59 | 6 | | 20000 | 42000 | 27000 | 3700 | 55 | Extra High Output | | 49 | 121 |
| ED28 | E39 | E | VBU | 400 | 8.31 | 5.00 | 40335 | MVR400/VBUED28HO | M59 | 12 | | 20000 | 41000 | 26500 | 4000 | 60 | Clear, Compact | | 49 | 121 |
| BT28 | E39 | E | HOR | 400 | 8.25 | 5.00 | 40201 | MVR400/HOR/BT28 | M59 | 12 | | 20000 | 37000 | 22000 | 4200 | 65 | Compact, Horizontal | | 49 | 117 |
| BT37 | E39 | E | HOR | 400 | 11.50 | 7.00 | 26218 | MVR400/HOR/MOG | M59 | 6 | | 20000 | 38000 | 22500 | 4200 | 65 | Clear | | 49 | 117 |
| | | E | HOR | 400 | 11.50 | 7.00 | 26219 | MVR400/C/HOR/MOG | M59 | 6 | | 20000 | 36800 | 22000 | 3900 | 70 | Coated | | 49 | 117 |
| 1000 Watts | | | | | | | | | | | | | | | | | | | | |
| BT56 | E39 | S | VBU | 1000 | 15.37 | 9.50 | 44835 | MVR1000/VBU/HO | M47 | 6 | | 15000 | 111000 | 87000 | 3800 | 65 | Clear | | 49 | 121 |
| Sports Lighting | | | | | | | | | | | | | | | | | | | | |
| 1000 Watts | | | | | | | | | | | | | | | | | | | | |
| PAR64 | G38 | E | U | 1000 | 6.87 | | 88514 | SPL1000/PAR64840 | HID | 1 | 1,350,000 | 3500 | 63000 | | 4000 | 80 | Clear, Narrow Spot | | 38 | 124 |
| | | E | U | 1000 | 6.87 | | 88513 | SPL1000/PAR64/HR | HID | 1 | 1,350,000 | 3500 | 63000 | | 4000 | 80 | Clear, Narrow Spot | | 38 | 124 |
| 1500 Watts | | | | | | | | | | | | | | | | | | | | |
| T7 | Rx7s | E | H | 1500 | 10.12 | 5.00 | 16920 | SPL1500/H/652 | HID | 1 | | 6000 | 120000 | 90000 | 5200 | 65 | Frosted | | 38 | 125 |
| BT56 | E39 | E | U | 1500 | 15.37 | 9.50 | 47326 | MVR1500/U/SPORTS | M48 | 6 | | 3000 | 162000H/170000V | 137000H/153000V | 4000 | 65 | Clear | | 17,42,49 | 117 |
| 1650 Watts | | | | | | | | | | | | | | | | | | | | |
| BT56 | PosMog | E | HOR | 1650 | 15.37 | 9.50 | 25532 | MVR1650/HOR | M112 | 6 | | 3000 | 177000 | 145000 | 3200 | 65 | Clear, Position Oriented Socket | | 17,49 | 117 |
| Protected Multi-Vapor® Metal Halide Lamps | | | | | | | | | | | | | | | | | | | | |
| 50 Watts | | | | | | | | | | | | | | | | | | | | |
| ED17 | E26 | O | U | 50 | 5.43 | 3.43 | 45670 | MXR50/U/MED/O | M110 | 6 | | 10000 | 3200 | 1700 | 3500 | 70 | Clear, Protected | | | 120 |
| | | O | U | 50 | 5.43 | 3.43 | 45671 | MXR50/C/U/MED/O | M110 | 6 | | 10000 | 3200 | 1500 | 3500 | 70 | Coated, Protected | | | 120 |
| 70 Watts | | | | | | | | | | | | | | | | | | | | |
| ED17 | E26 | O | U | 70 | 5.43 | 3.43 | 12377 | MXR70/U/MED/O | M98 | 6 | | 15000 | 5500 | 3500 | 3200 | 70 | Clear, Protected | | | 120 |
| | | O | U | 70 | 5.43 | 3.43 | 12577 | MXR70/C/U/MED/O | M98 | 6 | | 15000 | 4900 | 3300 | 3200 | 70 | Coated, Protected | | | 120 |
| 100 Watts | | | | | | | | | | | | | | | | | | | | |
| ED17 | E26 | O | U | 100 | 5.43 | 3.43 | 12381 | MXR100/U/MED/O | M90 | 6 | | 15000 | 9000 | 6200 | 3200 | 70 | Clear, Protected | | | 120 |
| | | O | U | 100 | 5.43 | 3.43 | 12579 | MXR100/C/U/MED/O | M90 | 6 | | 15000 | 8500 | 5900 | 3200 | 70 | Coated, Protected | | | 120 |
| 150 Watts | | | | | | | | | | | | | | | | | | | | |
| ED17 | E26 | O | U | 150 | 5.43 | 3.43 | 45683 | MXR150/U/MED/O | M102 | 6 | | 15000 | 12500 | 8600 | 3500 | 70 | Clear, Protected | | | 120 |
| | | O | U | 150 | 5.43 | 3.43 | 45688 | MXR150/C/U/MED/O | M102 | 6 | | 15000 | 12000 | 8300 | 3500 | 70 | Coated, Protected | | | 120 |
| 175 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | EX39 | O | VBU | 175 | 8.25 | 5.00 | 49470 | MPR175/VBU/O | M57 | 6 | | 10000 | 15700 | 8400 | 4000 | 65 | Clear, Protected, UV Control | | | 119 |
| | | O | VBU | 175 | 8.25 | 5.00 | 11649 | MPR175/C/VBU/O | M57 | 6 | | 10000 | 14300 | 7700 | 3800 | 70 | Coated, Protected, UV Control | | | 119 |
| | | O | VBU | 175 | 8.25 | 5.00 | 61325 | MPR175/VBU/PA/O | M137, M152 | 6 | | 15000 | 16000 | 11000 | 3900 | 65 | Clear, Protected, UV Control | | | 120 |
| 250 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | EX39 | O | VBU | 250 | 8.25 | 5.00 | 49471 | MPR250/VBU/O | M58 | 6 | | 10000 | 21300 | 14200 | 4000 | 65 | Clear, Protected, UV Control | | | 119 |
| | | O | VBU | 250 | 8.25 | 5.00 | 11650 | MPR250/C/VBU/O | M58 | 6 | | 10000 | 19500 | 12900 | 3800 | 70 | Coated, Protected, UV Control | | | 119 |
| | | O | VBU | 250 | 8.25 | 5.00 | 61326 | MPR250/VBU/PA/O | M138, M153 | 6 | | 15000 | 23000 | 16600 | 3800 | 75 | Clear, Protected, UV Control | | | 120 |

| Bulb Shape | Base | LET | OP | Watts | MOL (in) | LCL (in) | Order Code | Description | ANSI Ballast Type | Case Qty | CBCP | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Additional Information | Reduced Watts/High Color Rendering | Footnotes | Warning and Caution Notices |
|--|------|-----|-----|-------|----------|----------|------------|------------------|-------------------|----------|------|------------------|----------------|---------------|--------------|-----|--|------------------------------------|-----------|-----------------------------|
| Protected Multi-Vapor® Metal Halide Lamps (continued) | | | | | | | | | | | | | | | | | | | | |
| 320 Watts | | | | | | | | | | | | | | | | | | | | |
| ED37 | EX39 | O | VBU | 320 | 11.50 | 7.00 | 46275 | MPR320/VBU/XHOPA | M132/M154 | 6 | | 20000 | 32000 | 22500 | 4000 | 65 | Clear, Protected, UV Control, Extra High Output | | | 120 |
| | | O | VBU | 320 | 11.50 | 7.00 | 46276 | MPR320C/VBUXHOPA | M132/M154 | 6 | | 20000 | 30500 | 21500 | 3700 | 70 | Coated, Protected, UV Control, Extra High Output | | | 120 |
| ED28 | EX39 | O | VBU | 320 | 8.25 | 5.00 | 19609 | MPR320C/PA/ED28 | M132/M154 | 12 | | 20000 | 30600 | 22500 | 3700 | 70 | Coated, Protected, UV Control | | 43 | 120 |
| 350 Watts | | | | | | | | | | | | | | | | | | | | |
| ED37 | EX39 | O | VBU | 350 | 11.50 | 7.00 | 10202 | MPR350/VBU/PA | M131 | 6 | | 20000 | 35200 | 24600 | 3700 | 65 | Clear, Protected, UV Control | | 43 | 120 |
| | | O | VBU | 350 | 11.50 | 7.00 | 48824 | MPR350C/VBU/PA | M131 | 6 | | 20000 | 33400 | 26500 | 3700 | 70 | Coated, Protected, UV Control | | 43 | 120 |
| | | O | VBU | 350 | 11.50 | 7.00 | 48825 | MPR350C/VBU3K/PA | M131 | 6 | | 20000 | 33400 | 23500 | 3200 | 70 | Coated, Protected, UV Control | | 43 | 120 |
| 360 Watts - Watt-Miser® Energy-Saving Replacement for 400W Metal Halide | | | | | | | | | | | | | | | | | | | | |
| ED37 | EX39 | O | VBU | 360 | 11.50 | 7.00 | 40056 | MPR360VBUWM/HO/O | M59/M165 | 6 | | 20000 | 36000 | 23500 | 4000 | 60 | Clear, Protected | | 32,49 | 119 |
| | | O | VBU | 360 | 11.50 | 7.00 | 11685 | MPR360CVBUWMHO/O | M59/M165 | 6 | | 20000 | 35000 | 22500 | 3700 | 60 | Coated, Protected | | 32,49 | 119 |
| 400 Watts | | | | | | | | | | | | | | | | | | | | |
| ED37 | EX39 | O | VBU | 400 | 11.50 | 7.00 | 18708 | MPR400/VBU/HO/O | M59 | 6 | | 20000 | 40000 | 26000 | 3400 | 65 | Clear, Protected | | 49 | 119 |
| | | O | VBU | 400 | 11.50 | 7.00 | 13582 | MPR400C/VBU/HO/O | M59 | 6 | | 20000 | 38000 | 25000 | 3200 | 65 | Coated, Protected | | 49 | 119 |
| | | O | VBU | 400 | 11.50 | 7.00 | 46273 | MPR400/VBU/XHOPA | M135/M155 | 6 | | 20000 | 42000 | 29500 | 4000 | 65 | Clear, Protected, UV Control, Extra High Output | | 43,49 | 120 |
| | | O | VBU | 400 | 11.50 | 7.00 | 46274 | MPR400C/VBUXHOPA | M135/M155 | 6 | | 20000 | 40000 | 28000 | 3700 | 70 | Coated, Protected, UV Control, Extra High Output | | 43,49 | 120 |
| 1000 Watts | | | | | | | | | | | | | | | | | | | | |
| BT56 | EX39 | O | VBU | 1000 | 15.37 | 9.50 | 41433 | MPR1000/VBU/HO/O | M47 | 6 | | 12000 | 110000 | 88500 | 3500 | 65 | Clear, Protected | | 49 | 119 |
| Chromafit™ Multi-Vapor® Metal Halide Lamps (HPS Retrofit Lamps) | | | | | | | | | | | | | | | | | | | | |
| 250 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | E39 | E | VBU | 250 | 8.25 | 5.75 | 12762 | MVR250/VBU/R | S50 | 12 | | 10000 | 18500 | 13900 | 4500 | 65 | Clear, HPS Retrofit | | 50 | 116 |
| | | E | VBU | 250 | 8.25 | 5.75 | 12769 | MVR250C/VBU/R | S50 | 12 | | 10000 | 18000 | 13000 | 4000 | 70 | Coated, HPS Retrofit | | 50 | 116 |
| 400 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | E39 | E | U | 400 | 8.31 | 5.00 | 26851 | MVR400/U/ED28/R | S51 | 12 | | 15000H/20000V | 33100H/36000V | 20200H/22000V | 4000 | 65 | Clear, Compact, HPS Retrofit, | | 49,50 | 116 |
| ED37 | E39 | S | VBU | 400 | 11.50 | 5.75 | 12770 | MVR400/VBU/R | S51 | 6 | | 20000 | 37600 | 22600 | 4500 | 65 | Clear, HPS Retrofit | | 49,50 | 122 |
| | | S | VBU | 400 | 11.50 | 5.75 | 12772 | MVR400C/VBU/R | S51 | 6 | | 20000 | 35700 | 21400 | 4000 | 70 | Coated, HPS Retrofit | | 49,50 | 122 |
| Lucalox® High Pressure Sodium Lamps | | | | | | | | | | | | | | | | | | | | |
| 150 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | E39 | O | U | 150 | 8.31 | 5.00 | 44243 | LU150/100(ED28) | S56 | 12 | | 24000+ | 15000 | 13500 | 2000 | 22 | Clear, 100V | | | 111 |
| 600 Watts | | | | | | | | | | | | | | | | | | | | |
| T15 | E39 | O | U | 600 | 11.06 | 6.62 | 27187 | LU600/T | S106 | 12 | | 24000 | 90000 | 81000 | 2000 | 22 | Clear | | | 111 |
| 750 Watts | | | | | | | | | | | | | | | | | | | | |
| ED37 | E39 | O | U | 750 | 11.50 | 6.75 | 14682 | LU750 | S111 | 6 | | 24000+ | 110000 | 99000 | 2100 | 22 | Clear | | | 111 |
| Ecolux® High Pressure Sodium Lamps (TCLP Compliant) | | | | | | | | | | | | | | | | | | | | |
| 35 Watts | | | | | | | | | | | | | | | | | | | | |
| B17 | E26 | O | U | 35 | 5.43 | 3.43 | 11668 | LU35/MED/ECO | S76 | 6 | | 16000 | 2250 | 2025 | 1900 | 22 | TCLP Compliant | | | 111 |
| | | O | U | 35 | 5.43 | 3.43 | 26420 | LU35/MED/CP | S76 | 4 | | 16000 | 2250 | 2025 | 1900 | 22 | TCLP Compliant, Consumer Pack | | | 111 |
| 50 Watts | | | | | | | | | | | | | | | | | | | | |
| B17 | E26 | O | U | 50 | 5.43 | 3.43 | 11345 | LU50/MED/ECO | S68 | 6 | | 24000+ | 4000 | 3600 | 1900 | 22 | TCLP Compliant | | | 111 |
| | | O | U | 50 | 5.43 | 3.43 | 26421 | LU50/MED/CP | S68 | 4 | | 24000+ | 4000 | 3600 | 1900 | 22 | TCLP Compliant, Consumer Pack | | | 111 |
| B17 | E26 | O | U | 50 | 5.43 | 3.43 | 11347 | LU50/D/MED/ECO | S68 | 6 | | 24000+ | 3800 | 3420 | 1900 | 22 | TCLP Compliant, Diffuse | | | 111 |
| ED23.5 | E39 | O | U | 50 | 7.75 | 5.00 | 44975 | LU50/H/ECO | S68 | 12 | | 24000+ | 4000 | 3600 | 1900 | 22 | TCLP Compliant | | | 111 |
| | | O | U | 50 | 7.75 | 5.00 | 45006 | LU50/D/H/E/CO | S68 | 12 | | 24000+ | 3800 | 3420 | 1900 | 22 | TCLP Compliant, Diffuse | | | 111 |

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4. All footnotes, warning and caution notices found at the end of this section (page 3-19).

High Intensity Discharge Lamps

| Bulb Shape | Base | LET | OP | Watts | MOL (in) | LCL (in) | Order Code | Description | ANSI Ballast Type | Case Qty | CBCP | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Additional Information | Reduced Watts/ High Color Rendering | Footnotes | Warning and Caution Notices | |
|--|------|-----|----|-------|----------|----------|------------|------------------|-------------------|----------|------|------------------|----------------|-------------|--------------|------|--|-------------------------------------|-----------|-----------------------------|-----|
| Ecolux® High Pressure Sodium Lamps (TCLP Compliant) (continued) | | | | | | | | | | | | | | | | | | | | | |
| 70 Watts | | | | | | | | | | | | | | | | | | | | | |
| B17 | E26 | O | U | 70 | 5.43 | 3.43 | 11339 | LU70/MED/ECO | S62 | 6 | | 24000+ | 6400 | 5450 | 1900 | 22 | TCLP Compliant | | | 111 | |
| | | O | U | 70 | 5.43 | 3.43 | 26422 | LU70/MED/CP | S62 | 4 | | | 24000+ | 6400 | 5450 | 1900 | 22 | TCLP Compliant, Consumer Pack | | | 111 |
| | | O | U | 70 | 5.43 | 3.43 | 11340 | LU70/D/MED/ECO | S62 | 6 | | | 24000+ | 5950 | 5050 | 1900 | 22 | TCLP Compliant, Diffuse | | | 111 |
| ED23.5 | E39 | O | U | 70 | 7.75 | 5.00 | 85368 | LU70/H/ECO | S62 | 12 | | 24000+ | 6400 | 5450 | 1900 | 22 | TCLP Compliant | | | 111 | |
| | | O | U | 70 | 7.75 | 5.00 | 26426 | LU70/CP | S62 | 4 | | | 24000+ | 6400 | 5450 | 1900 | 22 | TCLP Compliant, Consumer Pack | | | 111 |
| | | O | U | 70 | 7.75 | 5.00 | 72605 | LU70/D/H/ECO | S62 | 12 | | | 24000+ | 5950 | 5050 | 1900 | 22 | TCLP Compliant, Diffuse | | | 111 |
| 100 Watts | | | | | | | | | | | | | | | | | | | | | |
| B17 | E26 | O | U | 100 | 5.50 | 3.43 | 13250 | LU100/MED/ECO | S54 | 6 | | 24000+ | 9500 | 8550 | 2000 | 22 | TCLP Compliant | | | 111 | |
| | | O | U | 100 | 5.50 | 3.43 | 26423 | LU100/MED/CP | S54 | 4 | | | 24000+ | 9500 | 8550 | 2000 | 22 | TCLP Compliant, Consumer Pack | | | 111 |
| | | O | U | 100 | 5.50 | 3.43 | 13251 | LU100/D/MED/ECO | S54 | 6 | | | 24000+ | 8800 | 7920 | 2000 | 22 | TCLP Compliant, Diffuse | | | 111 |
| ED23.5 | E39 | O | U | 100 | 7.75 | 5.00 | 85369 | LU100/H/ECO | S54 | 12 | | 24000+ | 9500 | 8550 | 2000 | 22 | TCLP Compliant | | | 111 | |
| | | O | U | 100 | 7.75 | 5.00 | 26427 | LU100/CP | S54 | 4 | | | 24000+ | 9500 | 8550 | 2000 | 22 | TCLP Compliant, Consumer Pack | | | 111 |
| | | O | U | 100 | 7.75 | 5.00 | 72606 | LU100/D/H/ECO | S54 | 12 | | | 24000+ | 8800 | 7920 | 2000 | 22 | TCLP Compliant, Diffuse | | | 111 |
| 150 Watts | | | | | | | | | | | | | | | | | | | | | |
| B17 | E26 | O | U | 150 | 5.75 | 3.50 | 13252 | LU150/MED/ECO | S55 | 6 | | 24000+ | 16000 | 14400 | 2000 | 22 | TCLP Compliant | | | 111 | |
| | | O | U | 150 | 5.75 | 3.50 | 26424 | LU150/MED/CP | S55 | 4 | | | 24000+ | 16000 | 14400 | 2000 | 22 | TCLP Compliant, Consumer Pack | | | 111 |
| | | O | U | 150 | 5.75 | 3.50 | 13253 | LU150/D/MED/ECO | S55 | 6 | | | 24000+ | 15000 | 13500 | 2000 | 22 | TCLP Compliant, Diffuse | | | 111 |
| ED23.5 | E39 | O | U | 150 | 7.75 | 5.00 | 85371 | LU150/55/H/ECO | S55 | 12 | | 24000+ | 16000 | 14400 | 2000 | 22 | TCLP Compliant | | | 111 | |
| | | O | U | 150 | 7.75 | 5.00 | 26429 | LU150/55/CP | S55 | 4 | | | 24000+ | 16000 | 14400 | 2000 | 22 | TCLP Compliant, Consumer Pack | | | 111 |
| | | O | U | 150 | 7.75 | 5.00 | 85380 | LU150/55/D/H/ECO | S55 | 12 | | | 24000+ | 15000 | 13500 | 2000 | 22 | TCLP Compliant, Diffuse | | | 111 |
| 200 Watts | | | | | | | | | | | | | | | | | | | | | |
| ED18 | E39 | O | U | 200 | 9.75 | 5.75 | 85372 | LU200/H/ECO | S66 | 12 | | 24000+ | 22000 | 19800 | 2100 | 22 | TCLP Compliant | | | 111 | |
| 250 Watts | | | | | | | | | | | | | | | | | | | | | |
| ED18 | E39 | O | U | 250 | 9.75 | 5.75 | 85377 | LU250/H/ECO | S50 | 12 | | 24000+ | 28000 | 25200 | 2100 | 22 | TCLP Compliant | | | 111 | |
| ED18 | E39 | O | U | 250 | 9.75 | 5.75 | 26430 | LU250/CP | S50 | 4 | | 24000+ | 28000 | 25200 | 2100 | 22 | Clear, Consumer Pack | | | 111 | |
| ED28 | E39 | O | U | 250 | 9.00 | 5.00 | 85381 | LU250/D/H/ECO | S50 | 12 | | 24000+ | 26000 | 23400 | 2100 | 22 | TCLP Compliant, Diffuse | | | 111 | |
| 310 Watts | | | | | | | | | | | | | | | | | | | | | |
| ED18 | E39 | O | U | 310 | 9.75 | 5.75 | 76996 | LU310/H/ECO | S67 | 12 | | 24000+ | 37000 | 33300 | 2100 | 22 | TCLP Compliant | | | 111 | |
| 400 Watts | | | | | | | | | | | | | | | | | | | | | |
| ED18 | E39 | O | U | 400 | 9.75 | 5.75 | 85379 | LU400/H/ECO | S51 | 12 | | 24000+ | 51000 | 45000 | 2100 | 22 | TCLP Compliant | | | 111 | |
| ED18 | E39 | O | U | 400 | 9.75 | 5.75 | 26431 | LU400/CP | S51 | 4 | | 24000+ | 51000 | 45000 | 2100 | 22 | Clear, Consumer Pack | | | 111 | |
| ED37 | E39 | O | U | 400 | 11.31 | 7.00 | 76998 | LU400/D/H/ECO | S51 | 6 | | 24000+ | 47500 | 42750 | 2100 | 22 | TCLP Compliant, Diffuse | | | 111 | |
| 1000 Watts | | | | | | | | | | | | | | | | | | | | | |
| E25 | E39 | O | U | 1000 | 15.06 | 8.75 | 44058 | LU1000/ECO | S52 | 6 | | 24000+ | 130000 | 117000 | 2100 | 22 | TCLP Compliant | | 49 | 111 | |
| Ecolux® Standby Longlife Lucalox® Lamps (TCLP Compliant) | | | | | | | | | | | | | | | | | | | | | |
| 70 Watts | | | | | | | | | | | | | | | | | | | | | |
| ED23.5 | E39 | O | U | 70 | 7.75 | 5.00 | 61367 | LU70/SBY/XL/ECO | S62 | 12 | | 40000 | 6400 | 5050 | 2000 | 22 | Clear, Standby Longlife, Dual Arc Tube, TCLP Compliant | | | 111 | |
| 100 Watts | | | | | | | | | | | | | | | | | | | | | |
| ED23.5 | E39 | O | U | 100 | 7.75 | 5.00 | 61368 | LU100/SBY/XL/ECO | S54 | 12 | | 40000 | 9500 | 8190 | 2000 | 22 | Clear, Standby Longlife, Dual Arc Tube, TCLP Compliant | | | 111 | |
| 150 Watts | | | | | | | | | | | | | | | | | | | | | |
| ED23.5 | E39 | O | U | 150 | 7.75 | 5.00 | 61369 | LU150/55SBYXLECO | S55 | 12 | | 40000 | 16000 | 14000 | 2000 | 22 | Clear, Standby Longlife, Dual Arc Tube, TCLP Compliant | | | 111 | |
| 200 Watts | | | | | | | | | | | | | | | | | | | | | |
| ED18 | E39 | O | U | 200 | 9.75 | 5.75 | 61370 | LU200/SBY/XL/ECO | S66 | 12 | | 40000 | 21500 | 18150 | 2000 | 22 | Clear, Standby Longlife, Dual Arc Tube, TCLP Compliant | | | 111 | |

| Bulb Shape | Base | LET | OP | Watts | MOL (in) | LCL (in) | Order Code | Description | ANSI Ballast Type | Case Qty | CBCP | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Additional Information | Reduced Watts/High Color Rendering | Footnotes | Warning and Caution Notices |
|---|------|-----|----|-------|----------|----------|------------|------------------|-------------------|----------|------|------------------|----------------|-------------|--------------|-----|--|------------------------------------|-----------|-----------------------------|
| Ecolux® Standby Longlife Lucalox® Lamps (TCLP Compliant) (continued) | | | | | | | | | | | | | | | | | | | | |
| 250 Watts | | | | | | | | | | | | | | | | | | | | |
| ED18 | E39 | O | U | 250 | 9.75 | 5.75 | 61371 | LU250/SBY/XL/ECO | S50 | 12 | | 40000 | 27500 | 24750 | 2000 | 22 | Clear, Standby Longlife, Dual Arc Tube, TCLP Compliant | | | 111 |
| 400 Watts | | | | | | | | | | | | | | | | | | | | |
| ED18 | E39 | O | U | 400 | 9.75 | 5.75 | 61372 | LU400/SBY/XL/ECO | S51 | 12 | | 40000 | 50000 | 45000 | 2000 | 22 | Clear, Standby Longlife, Dual Arc Tube, TCLP Compliant | | 49 | 111 |
| Standby Longlife Lucalox® Lamps | | | | | | | | | | | | | | | | | | | | |
| 1000 Watts | | | | | | | | | | | | | | | | | | | | |
| E25 | E39 | O | U | 1000 | 15.06 | 8.75 | 27185 | LU1000/SBY/XL | S52 | 6 | | 40000 | 127000 | 115000 | 2100 | 22 | Clear, Standby Longlife, Dual Arc Tube | | 49 | 111 |
| Ecolux® NC Non-Cycling High Pressure Sodium Lamps (TCLP Compliant) | | | | | | | | | | | | | | | | | | | | |
| 70 Watts | | | | | | | | | | | | | | | | | | | | |
| ED23.5 | E39 | O | U | 70 | 7.75 | 5.00 | 14672 | LU70/ECO/NC | S62 | 12 | | 30000 | 6300 | 5670 | 1900 | 23 | Clear, Non-Cycling | | | 111 |
| 100 Watts | | | | | | | | | | | | | | | | | | | | |
| ED23.5 | E39 | O | U | 100 | 7.75 | 5.00 | 14673 | LU100/ECO/NC | S54 | 12 | | 30000 | 9800 | 8820 | 2000 | 23 | Clear, Non-Cycling | | | 111 |
| 150 Watts | | | | | | | | | | | | | | | | | | | | |
| ED23.5 | E39 | O | U | 150 | 7.75 | 5.00 | 40390 | LU150/S5/ECO/NC | S55 | 12 | | 40000 | 16000 | 14400 | 2000 | 23 | Clear, Non-Cycling | | | 111 |
| 200 Watts | | | | | | | | | | | | | | | | | | | | |
| ED18 | E39 | O | U | 200 | 9.75 | 5.75 | 45059 | LU200/ECO/NC | S66 | 20 | | 30000 | 22000 | 19800 | 2100 | 22 | Clear, Non-Cycling | | | 111 |
| 250 Watts | | | | | | | | | | | | | | | | | | | | |
| ED18 | E39 | O | U | 250 | 9.75 | 5.75 | 14674 | LU250/ECO/NC | S50 | 12 | | 40000 | 29000 | 26100 | 2000 | 30 | Clear, Non-Cycling | | | 111 |
| 400 Watts | | | | | | | | | | | | | | | | | | | | |
| ED18 | E39 | O | U | 400 | 9.75 | 5.75 | 14675 | LU400/ECO/NC | S51 | 12 | | 40000 | 54000 | 48600 | 2100 | 30 | Clear, Non-Cycling | | | 111 |
| Lucalox® PSL Lamps for Greenhouse | | | | | | | | | | | | | | | | | | | | |
| 400 Watts | | | | | | | | | | | | | | | | | | | | |
| T15 | E40 | O | U | 400 | 11.5 | 6.89 | 41845 | LU400/XOPSL/T/40 | HID | 12 | | 12000 | 56500 | | 2100 | 22 | Clear, 110V | | | 111 |
| 600 Watts | | | | | | | | | | | | | | | | | | | | |
| T15 | E40 | O | U | 600 | 11.5 | 6.65 | 41850 | LU600/XOPSL/T/40 | HID | 12 | | 12000 | 90000 | | 2100 | 22 | Clear, 115V | | | 111 |
| 750 Watts | | | | | | | | | | | | | | | | | | | | |
| T16 | E40 | O | U | 750 | 11.5 | 6.73 | 41856 | LU750/XOPSL/T/40 | HID | 12 | | 10000 | 112000 | | 2100 | 22 | Clear, 115V | | | 111 |
| | | O | U | 750 | 11.5 | 6.89 | 76134 | LU750/400PSL/T40 | HID | 12 | | 12000 | 112000 | | 2100 | 22 | Clear, 205V | | | 111 |
| Mercury Lamps | | | | | | | | | | | | | | | | | | | | |
| 100 Watts | | | | | | | | | | | | | | | | | | | | |
| ED17 | E26 | O | U | 100 | 5.43 | 3.50 | 17113 | HR100DX38/MED | H38 | 5 | | 20000 | 4000 | 2800 | 3900 | 50 | Deluxe White | | | 113 |
| ED23.5 | E39 | O | U | 100 | 7.50 | 5.00 | 12471 | HR100A38 | H38 | 5 | | 20000 | 3850 | 2695 | 5700 | 15 | Clear | | | 113 |
| | | O | U | 100 | 7.50 | 5.00 | 22575 | HR100DX38 | H38 | 12 | | 20000 | 4000 | 2800 | 3900 | 50 | Deluxe White | | | 113 |
| | | O | U | 100 | 7.50 | 5.00 | 26437 | HR100DX38/CP | H38 | 4 | | 20000 | 4000 | 2800 | 3900 | 50 | Deluxe White, Consumer Pack | | | 113 |
| 175 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | E39 | O | U | 175 | 8.25 | 5.00 | 24048 | HR175A39 | H39 | 12 | | 20000 | 7850 | 6670 | 5700 | 15 | Clear | | | 113 |
| | | O | U | 175 | 8.25 | 5.00 | 26440 | HR175A39/CP | H39 | 4 | | 20000 | 7850 | 6670 | 5700 | 15 | Clear, Consumer Pack | | | 113 |
| | | O | U | 175 | 8.25 | 5.00 | 24062 | HR175DX39 | H39 | 12 | | 20000 | 7800 | 6630 | 3900 | 50 | Deluxe White | | | 113 |
| | | O | U | 175 | 8.25 | 5.00 | 26439 | HR175DX39/CP | H39 | 4 | | 20000 | 7800 | 6630 | 3900 | 50 | Deluxe White, Consumer Pack | | | 113 |
| 250 Watts | | | | | | | | | | | | | | | | | | | | |
| ED28 | E39 | O | U | 250 | 8.25 | 5.00 | 24068 | HR250A37 | H37 | 12 | | 20000 | 11000 | 7700 | 5700 | 15 | Clear | | | 113 |
| | | O | U | 250 | 8.25 | 5.00 | 32127 | HR250DX37 | H37 | 12 | | 20000 | 11200 | 7840 | 3900 | 50 | Deluxe White | | | 113 |
| 400 Watts | | | | | | | | | | | | | | | | | | | | |
| ED37 | E39 | O | U | 400 | 11.31 | 7.00 | 23974 | HR400A33 | H33 | 6 | | 20000 | 21000 | 14700 | 5700 | 15 | Clear | | | 113 |
| | | O | U | 400 | 11.31 | 7.00 | 23998 | HR400DX33 | H33 | 6 | | 20000 | 22600 | 15800 | 3900 | 50 | Deluxe White | | | 113 |

High Intensity Discharge Lamps

General Information

Fixture Requirements – Lamp Enclosure type

HID lamps have fixture requirements that must be followed. The following three codes identify the appropriate fixture for a particular lamp. Lamps having an “O” code can be operated in an “Open or Enclosed” fixture. Lamps with a “S” code can be used in open fixtures only if operated in a vertical $\pm 15^\circ$ burn position. Lamps in all other burn positions must be suitably enclosed.

O = Open or Enclosed Fixtures

E = Enclosed Fixtures Only

S = Lamps operated in a vertical position (Base Up or Down), $\pm 15^\circ$, can be used in an open fixture. Lamps burned in any other orientation must be used in “enclosed fixtures only.”

Use in Enclosed Fixtures. “Enclosed” fixture means a fixture suitably enclosed and designed to contain fragments of hot quartz or glass (up to 1100°C) per UL Standard #1598 (if in doubt, contact your fixture manufacturer).

Use In Open Fixtures. For lamps operated in the vertical position $\pm 15^\circ$ that are not designated “Enclosed Fixtures Only,” lamp may be used in an open or enclosed lighting fixture depending upon the application and operating environment. For example, if the lamp is located near combustible material or in an area which is unoccupied for extended periods, an enclosed fixture which can contain fragments of hot quartz or glass is recommended. For more information, contact your fixture manufacturer.

Protection of Bulbs from Moisture

Outer bulbs of HID lamps are made of heat-resistant glass, designed to have strength and thermal-shock-resistant characteristics suitable for normal applications in typical luminaries. However, shielding of lamps must be provided to avoid bulb breakage that could result from direct contact with liquids (such as water) during operation.

Rated Life

Values are based on laboratory tests of a large number of representative lamps under controlled conditions, including operation at 10 hours per start on ballasts having specified electrical characteristics. Individual lamps or groups of lamps may, of course, vary from the Rated Life shown. Lamp operating conditions can also affect life. Where Rated Life is less than 24,000 hours, it is a MEDIAN value of life expectancy; that is, the total operating time at which, under normal operating conditions, 50% of any large group of initially installed lamps is expected to be still burning. Where Rated Life is 24,000+ hours, 67% of lamps are expected to be still burning at 24,000 hours. For cost-of-light calculations involving these lamps, if an estimated operating time is required at which 50% of the lamps will still be burning, a value of 28,500 hours is suggested. At burning cycles shorter than 10 hours per start, the median life will be shortened approximately as follows:

5 hrs/start: approx. life 75% of rating

2-1/2 hrs/start: approx. life 56% of rating

1-1/4 hrs/start: approx. life 42% of rating

Lumens – Lumens listed are reference lumens

Rated average lamp lumens are obtained under controlled laboratory conditions in a prescribed burning position. **Initial Reference Lumens** refer to the lamp lumen output after 100-hours burning. **Mean Reference Lumens** refer to the lamp lumen output at the mean lumen point during lamp life. The mean lumen point occurs at 50% rated life for HPS and mercury lamps, and at 40% rated life for metal halide lamps. Lamp performance on typical systems under typical service conditions will vary from the reference lumen ratings.

High Intensity Discharge lighting systems are subject to a wide range of variations which may affect final lighting levels. As a result, lamp performance on actual systems may vary due to lamp orientation, ambient temperatures, ballast variations, line voltage and other

reasons. Care must be taken when choosing a system to consider how these changes can affect your light levels both initially and at the mean lumen point.

Ballasts

HID lamps (except E-Z-Merc[®]) require auxiliary ballast equipment designed to produce proper electrical values. Actual lamp watts may vary depending on ballast characteristics. For total system watts, add nominal ballast watts.

All Lucalox[®], Mercury, and Metal Halide lamps (except I-Line) will start at ambient temperatures of -22°F (-30°C). I-Line Multi-Vapor[®] will start at ambient temperatures of 5°F (-15°C) when used on approved mercury ballasts.

Start Characteristics

Full light output does not occur immediately when power is applied. Instead, there is a time delay for the lamp to reach 90% total light output. The starting delay for High Pressure Sodium is 3-4 minutes, for Metal Halide 2-5 minutes, and for Mercury 5-7 minutes.

Restart Characteristics

With a power interruption of a half cycle or more, the arc will extinguish. When power is immediately reapplied, full light output does not occur immediately. For HPS lamps there is a delay of 1 minute to reach 90% total light output; however, Lucalox[®] LU1000 requires 2 minutes and E-Z Lux[®] lamps require 3 minutes to reach 90% total light output. For most Metal Halide lamps, including CMH[®], when the power is immediately reapplied, there will be a delay of 10 to 17 minutes before the lamps reach the 90% light output level. PulseArc[®] lamps restrike in <4 minutes. The restart delay for mercury lamps is 3 to 6 minutes to reach 90% total light output.

Operating Positions and Codes

Mercury and High Pressure Sodium lamps may be operated in any burn position and will still maintain their rated performance specifications. Metal Halide and Low Pressure Sodium lamps, however, are optimized for performance in specific burn positions, or may be restricted to certain burn positions for safety reasons.

U = Universal burning position

HBU = Horizontal -15° to Base Up

HBD = Horizontal $+15^\circ$ to Base Down

HOR = Horizontal $\pm 15^\circ$

HOR PA = $\pm 75^\circ$

HOR $\pm 60^\circ$ = applies to MVR 1650

H45 = Horizontal to $\pm 45^\circ$ only

VBU = Vertical Base Up $\pm 15^\circ$

VBD = Vertical Base Down $\pm 15^\circ$

If no special burn position is noted, the burn position is universal.

HID Color

The color temperature and CRI listed in the tabular data are for reference purposes only. All high intensity discharge lamps exhibit some degree of lamp-to-lamp color variation and shift over life. These characteristics can be increased based on choice of fixture, ballast, burning position, and ambient conditions. Color variation can be greater than normal during the initial 100 hours of burning. Where color consistency is important, consider using ConstantColor[®] CMH[®] for better performance. Contact your local GE Lighting representative for more information.

Export Base Lamps (/27 and /40)

Export only lamps have a non-domestic (non-U.S.) base and are not intended for use in the United States due to potential shock hazard. The lamps are identified by “/27” or “/40” at the end of the lamp description and comply with electrical characteristics defined by IEC standards.

Operating Notes

CMH® Chromafit™ Metal Halide Lamps

Use in enclosed luminaire with front cover made of glass, capable of containing the fragments of a lamp should it shatter, to avoid risk of fire. Do not use with Polymeric Lens.

MXR32 Metal Halide Lamp and Electronic Ballast

MXR32 lamps must be operated on GE's special, high-power-factor electronic ballast, HAL32/120. Outside dimensions for the ballast are 9-1/4" long, 3-1/8" wide and 1-3/4" high.

Dimming

High Wattage CMH® lamps may be dimmed to 50% of full rated wattage. With dimming, the color shifts to a cooler (higher Kelvin) temperature and CRI decreases. The dimming of 20-150W CMH® lamps is not normally recommended. Large power reductions significantly alter the thermal characteristics of the lamp resulting in color shift. Quartz metal halide and mercury vapor lamps may be dimmed to 50% of full rated wattage. High pressure sodium lamps

may be dimmed to 35%. For all dimming, the lamp must be started in full-power mode and must be operated in that mode for a minimum of fifteen minutes prior to reduced-power operation. Minimum open circuit voltage must meet ANSI requirements at full-power, during power transition, and in the reduced-power mode to prevent premature cycling (see appropriate ANSI lamp documents for specific minimum OCV requirements). Other application guidelines may apply.

Footnotes

- 9 Do not use this lamp in fixtures designed for less than rated lamp wattage.
- 14 Life shown is for vertical +15° operation.
- 16 Approximate lumen ratings at 45° burning position: Initial – 145,000. Mean – 124,000.
- 17 Rated life based on 5 or more burning hours per start.
- 28 Use only 1000-watt H12 or H34-type ballasts. Do not use on 1000-watt H36-type ballasts.
- 32 Lamp will run at 400-watts when used on a linear reactor ballast.
- 33 Rated life based on 11 hours per start.
- 38 Requires a non-ANSI designated ballast with a special, add-on metal halide ignitor. Contact your local GE representative for a list of approved ballasts and ignitors.
- 39 UV Control is a quartz material that effectively cuts UVB and UVC radiation.
- 42 Approximate lumen ratings at 45° burning position: Initial – 153,000. Mean – 139,000.
- 43 When operated on a 120 hrs. cycle (minimum), lamp life rating may be extended by up to 50% based on engineering estimates.
- 44 Rated life based on 7 hours per start.
- 45 Use low frequency square wave (LFSW) electronic ballast, peak lead ballast, or system which can shut itself off if ballast overheating occurs.
- 46 Use only with the following types of H39 175-watt mercury ballasts: high-reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.
- 47 Use only with the following types of H37 250-watt mercury ballasts: high-reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.
- 48 Use only with the following types of H33 400-watt mercury ballasts: high-reactance lag-type autotransformers, reactors, CWA auto regulators or CW regulators.
- 49 Not for use with lampholders that have stainless steel center contacts to avoid lamp or lampholder damage due to arcing.
- 50 Not for use on Magnetic-Regulator or Electronic-Regulator ballast systems to avoid ballast overheating.
- 51 Use only with low frequency square wave (LFSW) electronic ballast.
- 52 Use only with approved ballast, do not use on high frequency electronic ballasts.
- 53 Rated life is 15000 hours on magnetic ballasts.

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

High Intensity Discharge Lamps

Warning Notices

THE FOLLOWING WARNING NOTICES MUST BE COMPLIED WITH TO HELP AVOID POSSIBLE LAMP RUPTURE. General Electric Company will not be responsible for poor lamp performance, personal injury or property damage resulting from failure to follow these instructions.

HID LAMPS – GENERAL

WARNING

Most HID lamps are constructed of an outer bulb with an internal arc tube made of quartz. The arc tube operates under high pressure at very high temperatures—as high as approximately 1100°C. The arc tube and outer bulb may unexpectedly rupture due to internal causes or external factors such as a system failure or misapplication.

An arc tube rupture can burst and shatter the outer glass bulb resulting in the discharge of glass fragments and extremely hot quartz particles (as high as 1100°C). There is a risk of personal injury, property damage, burns and fire.

Some lamps are position-sensitive and must only be operated in specified burning positions (see “Additional Information” column in this catalog) with compatible electrical equipment in the types of fixtures prescribed in “Lamp Enclosure Type” on page 3-22 of this catalog.

In addition to the general warnings above, there are specific warnings for the HID lamp types listed below.

Metal Halide Lamps

Fixture lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100°C). If you do not know whether your fixture can safely withstand an arc tube rupture, contact your fixture manufacturer.

In continuously operating systems (24 hours/day, 7 days/week), turn lamps off once per week for at least 15 minutes. **FAILURE TO COMPLY INCREASES THE RISK OF RUPTURE.**

Ceramic metal halide lamps can be operated 24/7.

Relamp fixtures at or before the end of rated life. Beyond rated life, light output diminishes while energy consumption and risk of rupture increase.

Important Notice

In accordance to Federal Regulations (21 CFR 1040.30), the following notice applies to all lamps in the HID section of this catalog except E-Z Merc self ballasted lamps, High Pressure, Low Pressure Sodium Lamps, Saf-T-Gard® Multi-Vapor Lamps, CMH® MR16, CMH® PAR20 and CMH® PAR30.

High Pressure Sodium Lamps

This is a vacuum jacket lamp and may implode if broken. As a precaution, wear safety glasses and gloves when installing or removing lamp. High pressure sodium lamps are not position-sensitive and may be operated in any burning position.

Mercury Lamps

Fixture lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100°C). If you do not know whether your fixture can safely withstand an arc tube rupture, contact your fixture manufacturer.

Relamp fixtures at or before the end of rated life. Beyond rated life, light output diminishes while energy consumption and risk of rupture increase.

Mercury lamps are not position-sensitive and may be operated in any burning position.

Low Pressure Sodium Lamps

These lamps contain sodium which will ignite when exposed to water. If lamps are not disposed of properly, there is a risk of fire in the disposal vessel. Consult GE for disposal instructions.

Lamp Enclosure Type

Use in Enclosed Fixtures. “Enclosed” fixture means a fixture suitably enclosed and designed to contain fragments of hot quartz or glass (up to 1100°C) in accordance with UL Standard #1598 (if in doubt, contact your fixture manufacturer).

Use In Open Fixtures. For lamps operated in the vertical position $\pm 15^\circ$ that are not designated “Enclosed Fixtures Only,” lamp may be used in an open or enclosed lighting fixture depending upon the application and operating environment. For example, if the lamp is located near combustible material or in an area which is unoccupied for extended periods, an enclosed fixture which can contain fragments of hot quartz or glass is recommended. For more information, contact your fixture manufacturer.

⚠ R WARNING: This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available.

Warning and Caution Notices

100 – CMH® PAR38 INTEGRAL Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water
- Not for use with dimmers
- Do not open - no user serviceable parts inside

Risk of fire

- Keep combustible materials away from lamp
- Do not use in totally enclosed recessed fixtures

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use lamp if outer glass is scratched or broken
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required
- This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. This device is not intended for use with emergency exit fixtures or lights, electronic timers, photocells, or with dimmers
- Use only on 120V, 60Hz circuits. Do not operate with additional ballasts. Do not use where directly exposed to water.
- When illuminating light-sensitive materials use of an extra UV filter is recommended.
- Lamps may require several hours of operation to stabilize in color. Color change may also be affected by shock and vibration. Color appearance may vary between individual lamps.

101 – Arcstream®

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use thermally protected ballast

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

102 – Arcstream® G12 Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use thermally protected ballast

Lamp emits UV radiation which may cause eye/skin injury

- Eye or skin irritation may result from exposure. Use appropriate shielding. RG-2

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
FluorescentLED Lamps,
Tubes and Modules

Stage and Studio

Miniature, Sealed
Beam and Automotive

Projection

High Intensity Discharge Lamps

Warning and Caution Notices (continued)

- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

103 – Arcstream® Rx7s Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use thermally protected ballast

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use in wet locations
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

104 – CMH® GU6.5, G12 and Mini Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast—see instructions

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Normal handling with bare hands is acceptable. Excessive handling of the quartz outer bulb should be avoided.
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

105 – CMH® HW HPS Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- CMH® Chromafit™ lamps are compatible with properly rated magnetic HPS ballasts and low frequency square wave (LFSW) electronic ballasts. For CMH400 /R use LFSW electronic ballast, peak lead ballast or system which can shut itself off if ballast overheating occurs.

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed luminaire with front cover made of GLASS, capable of containing the fragments of a lamp should it shatter, to avoid risk of fire. Do not use with polymeric lens.
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not use beyond rated life
- Do not turn on lamp until fully installed

Warning and Caution Notices (continued)

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

106 – CMH® HW PA Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use GE approved ballast/control gear

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

107 – CMH® PAR 20-30 MR16 Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast—see instructions

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required
- Lamps designated as CMH70/PAR30 do not require thermally protected ballasts

108 – CMH® PAR38 Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken

Notes

- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

High Intensity Discharge Lamps

Warning and Caution Notices (continued)

109 – CMH® TD Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Normal handling with bare hands is acceptable. Excessive handling of the quartz outer bulb should be avoided.
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

110 – Kolorarc® Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast

- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

111 – Lucalox®

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Contains sodium—chemical burn risk

- Avoid skin contact with broken pieces

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Warning and Caution Notices (continued)

112 – Lucalox® HO

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast—see instructions

Contains sodium—chemical burn risk

- Avoid skin contact with broken pieces

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

113 – Mercury

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling

- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85 (HR 1000 only)

114 – Mercury Saf-T-Gard®

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

115 – Mercury Self-Ballasted

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
FluorescentLED Lamps,
Tubes and Modules

Stage and Studio

Miniature, Sealed
Beam and Automotive

Projection

High Intensity Discharge Lamps

Warning and Caution Notices (continued)

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

116 – QMH E-rated Kr85 and CMH®

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week. Does not apply to CMH®
- Do not use beyond rated life
- If used on a dimming system, see instructions
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

117 – QMH HOR Enclosed Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not use beyond rated life
- Do not remove base locating pin if so equipped
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

118 – QMH LW Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken

Warning and Caution Notices (continued)

- Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

119 – QMH Protected

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions.
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

120 – QMH Protected Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

121 – QMH S-rated

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product—see instructions
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
FluorescentLED Lamps,
Tubes and Modules

Stage and Studio

Miniature, Sealed
Beam and Automotive

Projection

High Intensity Discharge Lamps

Warning and Caution Notices (continued)

- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

122 – QMH S-rated Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product—see instructions
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

123 – QMH S-rated Saf-T-Gard®

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product—see instructions
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

124 – Sport 1000W PAR64

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

Warning and Caution Notices (continued)

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- Operating position is beam horizontal ± 90° only.
- The PAR outer MUST be aligned to the "TOP" as indicated by the lamp marking.
- Burner pinch must be down in horizontal burn position.

125 – Sport MBIL-CSI-CID

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Lamp emits UV radiation which may cause eye/skin injury

- Avoid exposure of eyes and skin to unshielded lamp

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

High Intensity Discharge Lamps

Cross-Reference

| GE Description | Osram/ Sylvania Description | Philips Description |
|---|----------------------------------|---------------------|
| Order This GE Lamp | If you currently use these lamps | |
| Standard & Ecolux® HPS Lamps | | |
| Lucalox® | Lumalux® | Ceramalux™ |
| LU35/MED | LU35/MED | C35576/M |
| LU35/D/MED | LU35/D/MED | C35576/D/M |
| LU50/MED/ECO | LU50/MED | C50568/M |
| LU50/D/MED/ECO | LU50/D/MED | C50568/M |
| LU50/H/ECO | LU50/ECO | C50568/ALTO |
| LU50/D/H/ECO | LU50/D | C50568/D |
| LU70/MED/ECO | LU70/MED | C70562/M |
| LU70/D/MED/ECO | LU70/D/MED | C70562/D/M |
| LU70/ECO/H/ECO | LU70/ECO | C70562/ALTO |
| LU70/ECO/NC | LU70/PLUS/ECO | — |
| LU70/D/H/ECO | LU70/D | C70562/D |
| LU100/MED/ECO | LU100/MED | C100554/M |
| LU100/D/MED/ECO | LU100/D/MED | C100554/D/M |
| LU100/H/ECO | LU100/ECO | C100554/ALTO |
| LU100/ECO/NC | LU100/PLUS/ECO | — |
| LU100/D/H/ECO | LU100/D | C100554/D |
| LU150/MED/ECO | LU150/55/MED | CC150555/M |
| LU150/D/MED/ECO | LU150/55/D/MED | C150555/D/M |
| LU150/55/H/ECO | LU150/55/ECO | C150555/ALTO |
| LU150/ECO/NC | LU150/55/PLUS/ECO | — |
| LU150/55/D/H/ECO | LU150/55/D | C150555/D |
| LU150/100/H/ECO | LU150/100 | C150556/ALTO |
| LU200/H/ECO | LU200/ECO | C200566 |
| LU200/ECO/NC | LU200/PLUS/ECO | — |
| LU250/H/ECO | LU250/ECO | C250550 |
| LU250/ECO/NC | LU250/PLUS/ECO | — |
| LU250/D/H/ECO | LU250/D | C250550/D |
| LU310 | LU310/ECO | C310567 |
| LU400/H/ECO | LU400/ECO | C400551 |
| LU400/ECO/NC | LU400/PLUS/ECO | — |
| LU400/D | LU400/D | C400551/D |
| LU750 | LU750 | — |
| LU1000/ECO | LU1000 | C1000552 |

| Deluxe High Pressure Sodium Lamps | | |
|--|---|-------------------|
| Lucalox® | | Ceramalux™ |
| LU70/DX/MED | — | C70562/C/M |
| LU150/DX/MED | — | C150555/C/M |
| LU150/55/DX | — | C150555/C |
| LU250/DX | — | C250550/C |
| LU400/DX | — | C400551/C |

| Standby Longlife High Pressure Sodium Lamps | | |
|--|-----------------|-------------------|
| Lucalox® | Lumalux® | Ceramalux™ |
| LU70/SBY/XL | LU70/SBY | C70562/2 |
| LU100/SBY/XL | LU100/SBY | C100554/2 |
| LU150/55/SBY/XL | LU150/55/SBY | C150555/2 |
| LU200/SBY/XL | LU200/100/SBY | — |
| LU250/SBY/XL | LU250/SBY | C250550/2 |
| LU400/SBY/XL | LU400/SBY | C400551/2 |
| LU1000/SBY/XL | LU1000/SBY | C1000552/2 |

| Ceramic Metal Halide Lamps | | |
|-----------------------------------|-------------------|---------------------|
| CMH® | Powerball® | MasterColor® |
| CMH20/MR16/830/SP | — | — |
| CMH20/MR16/830/FL | — | — |
| CMH20/MR16/830/WFL | — | — |
| CMH39MR16/930/SP | — | — |
| CMH39MR16/930/FL | — | — |
| CMH39MR16/930/WFL | — | — |
| CMH39MR16/942/SP | — | — |
| CMH39MR16/942/FL | — | — |
| CMH39MR16/942/WFL | — | — |
| CMH20/PAR20/SP | — | — |

| GE Description | Osram/ Sylvania Description | Philips Description |
|---|----------------------------------|-----------------------|
| Order This GE Lamp | If you currently use these lamps | |
| Ceramic Metal Halide Lamps (continued) | | |
| CMH® | Powerball® | MasterColor® |
| CMH20/PAR20/FL | — | — |
| CMH20/PAR30/SP10 | MCP20PAR30LN/U/830/SP | — |
| CMH20/PAR30/SP15 | — | — |
| CMH20/PAR30/FL25 | MCP20PAR30LN/U/830/FL | CDM20/PAR30/L/MFL/3K |
| CMH39/PAR20/830/SP10 | MCP39PAR20/U/830/SP | CDM35/PAR20/M/SP3K |
| CMH39/PAR20/830/FL30 | MCP39PAR20/U/830/FL | CDM35/PAR20/M/FL3K |
| CMH39/PAR20/NSP4K | — | CDM35/PAR20/M/SP/4K |
| CMH39/PAR20/FL4K | — | CDM35/PAR20/M/FL/4K |
| CMH39/PAR30L/830/SP10 | MCP39PAR30LN/U/830/SP | CDM35/PAR30L/M/SP |
| CMH39/PAR30L/830/SP15 | — | — |
| CMH39/PAR30L/830/FL25 | MCP39PAR30LN/U/830/FL | CDM35/PAR30L/M/FL |
| CMH39/PAR30LNS4PK | — | — |
| CMH39/PAR30L/SP4K | — | — |
| CMH39/PAR30L/FL4K | — | — |
| CMH70/PAR30L/830/SP15 | MCP70PAR30LN/U/830/SP | CDM70/PAR30L/M/SP |
| CMH70/PAR30L/830/FL40 | MCP70PAR30LN/U/830/FL | CDM70/PAR30L/M/FL |
| CMH70/PAR38/830/SP15 | MCP70PAR38/U/830/SP | CDM70/PAR38/SP/3K |
| CMH70/PAR38/830/FL25 | MCP70PAR38/U/830/FL | CDM70/PAR38/FL/3K |
| CMH70/PAR38/830/WFL | MCP70PAR38/U/830/WFL | CDM70/PAR38/WFL/3K |
| CMH100/PAR38/830/SP15 | MCP100PAR38/U/830/SP | CDM100/PAR38/SP/3K |
| CMH100/PAR38/830/FL25 | MCP100PAR38/U/830/FL | CDM100/PAR38/FL/3K |
| CMH100/PAR38/830/WFL | MCP100PAR38/U/830/WFL | CDM100/PAR38/WFL/3K |
| CMH70/U/830/MED | MCP70/U/MED/830 | MHC70/U/M/3K |
| CMH70/C/U/830/MED | MCP70/C/U/MED/830 | MHC70/C/U/M/3K |
| CMH100/U/830/MED | MCP100/U/MED/830 | MHC100/U/M/3K |
| CMH100/C/U/830/MED | MCP100/C/U/MED/830 | MHC100/C/U/M/3K |
| CMH70/U/830/MED/O | MCP70/U/MED/830 | MHC70/U/MP/3K/ALTO |
| CMH70/C/U/830/MED/O | MCP70/C/U/MED/830 | MHC70/C/U/MP/3K/ALTO |
| CMH70/U/942/MED/O | MCP70/U/MED/940 | MHC70/U/MP/4K/ALTO |
| CMH70/C/U/942/MED/O | MCP70/C/U/MED/940 | MHC70/C/U/MP/4K/ALTO |
| CMH150/U/830/MED/O | MCP150/U/MED/830 | MCH150/U/MP/3K/ALTO |
| CMH150/C/U/830/MED/O | MCP150/C/U/MED/830 | MHC150/C/U/MP/3K/ALTO |
| CMH150/U/942/MED/O | — | MHC150/U/MP/4K/ALTO |
| CMH150/C/U/942/MED/O | — | MHC150/C/U/MP/4K/ALTO |
| CMH20/T/U/830/G12 | — | — |
| CMH39/T/U/830/G12 | MC39T6/U/G12/830 | CDM35/T6/830 |
| CMH39/TC/U/942/G12 | MC39T6/U/G12/940 | CDM35/T6/842 |
| CMH70/T/U/830/G12 | MC70T6/U/G12/830 | CDM70/T6/830 |
| CMH70/TC/U/942/G12 | MC70T6/U/G12/940 | CDM70/T6/942 |
| CMH150/T/U/830/G12 | MC150T6/U/G12/830 | CDM150/T6/830 |
| CMH150/TC/U/942/G12 | MC150T6/U/G12/940 | CDM150/T6/942 |
| CMH70/TD/830/Rx7s | MC70T6/DE/830 | CDM70/TD/830 |
| CMH70/TD/942/Rx7s | — | CDM70/TD/942 |
| CMH150/TD/830/Rx7s | MC150T6/DE/830 | CDM150/TD/830 |
| CMH150/TD/942/Rx7s | — | CDM150/TD/942 |
| CMH250/V/PA/O | MCP250/PS/BU only | CDM250/V/O/PS/4K |
| CMH250C/V/PA/O | MCP250/C/PS/BU only | CDM250C/V/O/PS/4K |
| CMH320/V/PA/O | MCP320/PS/BU only | CDM320/V/O/PS/4K |
| CMH320C/V/PA/O | MCP320/C/PS BU only | CDM320C/V/O/PS/4K |
| CMH350/V/PA/O | — | CDM350/V/O/PS/4K |
| CMH350C/V/PA/O | — | CDM350C/V/O/PS/4K |
| CMH400/V/PA/O | — | CDM400/V/O/PS/4K |
| CMH400C/V/PA/O | — | CDM400C/V/O/PS/4K |
| CMH20/TC/U/830/GU6.5 | — | — |
| CMH39T/U930GU6.5 | — | — |
| CMH39T/U942GU6.5 | — | — |
| CMH20/TC/U/830/G8.5 | MC20TC/U/G8.5/830 | — |
| CMH39/TC/U/830/G8.5 | MC39TC/U/G8.5/830 | CDM35/TC/830 |
| CMH39/TC/U/942/G8.5 | MC39TC/U/G8.5/942 | CDM35/TC/942 |
| CMH70/TC/U/830/G8.5 | MC70TC/U/G8.5/830 | CDM70/TC/830 |
| CMH70/TC/U/942/G8.5 | MC70TC/U/G8.5/942 | CDM70/TC/942 |
| CMH250/U/830/R | — | CDM250S50/V/O/4K |
| CMH400/U/830/R | — | CDM400S51/V/O/4K |

Cross-Reference (continued)

| GE Description | Osram/ Sylvania Description | Philips Description |
|--|---|---------------------|
| Order This GE Lamp | If you currently use these lamps | |
| Multi-Vapor® PulseArc® Metal Halide Lamps | | |
| PulseArc® | MetalArc® | |
| MXR32C/VBU | — | — |
| MXR50/U/MED | MP50/U/MED | MH50/U/M |
| MXR50/C/U/MED | MP50/C/U/MED | MH50/C/U/M |
| MXR70/U/MED | MH70/U/MED | MHC70/U/M/3K |
| MXR70/C/U/MED | MH70/C/U/MED | MHC70/C/U/M/3K |
| MXR70/U/MED/O | MP70/U/MED | MHC70/C/U/M/3K |
| MXR70/C/U/MED/O | MP70/C/U/MED | MHC70/C/U/M/3K |
| MXR100/U/MED | M100/U/MRD | MHC100/U/M/3K |
| MXR100/C/U/MED | MH100/C/U/MED | MHC100/C/U/M/3K |
| MVR100/U/MED | MH100/U/4K/MED | MHC100/U/M/4K |
| MVR100/C/U/MED | — | MHC100/C/U/M/4K |
| MXR100/U/MED/O | MP100/U/MED | MHC100/U/M/3K |
| MXR100/C/U/MED/O | MP100/C/U/MED | MHC100/C/U/M/3K |
| MXR150/U/MED | M150/U/MED | MH150/U/M |
| MXR150/C/U/MED | M150/C/U/MED | MH150/C/U/M |
| MVR175/VBU/PA | MS175/PS/BU | MS175/BU/PS |
| MVR175/C/VBU/PA | MS175/C/PS/BU | — |
| MVR250/VBU/PA | MS250/PS/BU | MS250/BU/PS |
| MVR250/C/VBU/PA | MS250/C/PS/BU | — |
| MVR250/HOR/PA | M250/PS/U | — |
| MVR320/VBU/HO/PA | MS320/PS/BU | MS320/BU/PS |
| MVR320/C/VBU/HO/PA | MS320/C/PS/BU-HOR | MS320/C/BU/PS |
| MPR320/VBU/XHO/PA | MP320/350/PS/BU | MP320/BU/PS |
| MPR320/C/VBU/XHO/PA | MP320/350/C/PS/BU | MP320/C/BU/PS |
| MVR320/HOR/PA | M320/PS/BU-HOR | MS320/PS/U |
| MPR350/VBU/PA | MP320/350/PS/BU | MP350/BU/PS |
| MPR350/C/VBU/PA | MP320/350/C/PS/BU | MP350/C/BU/PS |
| MPR400/VBU/XHO/PA | MP350/400/PS/BU | MP400/BU/PS |
| MPR400/C/VBU/XHO/PA | MP350/400/C/PS/BU | MP400/C/BU/PS |
| MVR400/HOR/PA | M400/PS/U | MS400/HOR/PS |
| MVR400/HOR/ED28/PA | M400/PS/U/BT28 | — |
| MVR750/VBU/PA | MS750/PS/BU-HOR/BT37 | — |
| MVR750/C/VBU/PA | MS750/C/PS/BU-HOR/BT37 | — |
| MVR1000/BT37/PA | M1000/PS/U/BT37 | MS1000/BU/BT37/PS |
| Multi-Vapor® Standard Metal Halide Lamps | | |
| Multi-Vapor® | MetalArc® | |
| MVR175/U/MED | M175/U/MED | MH175/U/M |
| MVR175/C/U/MED | M175/C/U/MED | MH175/C/U/M |
| MVR175/U | M175/U | MH175/U |
| MVR175/C/U | M175/C/U | MH175/C/U |
| MVR175/HOR | MS175/HOR | MS175/HOR |
| MVR175/C/HOR | MS175/C/HOR | MS175/C/HOR |
| MVR250/U | M250/U | MH250/U |
| MVR250/C/U | M250/C/U | MH250/C/U |
| MVR250/SP30/U | M2503K/BU-only | MH250/3K/BU |
| MVR250/HOR | MS250/HOR | MS250/HOR |
| MVR250/C/HOR | MS250/C/HOR | MS250/C/HOR |
| MVR400/U | M400/U | MH400/U |
| MVR400/C/U | M400/C/U | MH400/C/U |
| MVR400/SP30/U | MS400/BU | MH400/3K/U |
| MVR400/VBU | MS400/BU | MS400/BU |
| MVR400/VBD | MS400/BD | — |
| MVR400/C/VBU | MS400/C/BU | MS400/C/BU& |
| MVR400/C/VBD | MS400/C/BD | — |
| MVR400/HOR | MS400/HOR | MS400/HOR |
| MVR400/C/HOR | MS400/C/HOR | MS400/C/HOR |
| MVR400/SP30/HOR | MS400/3K/HOR | — |
| MPR400/U | MP400/BU | MP400/U |
| MPR400/VBU | MP400/BU/BD | — |
| MVR1000/U | M1000/U | MH1000/U |
| MVR1000/C/U | M1000/C/U | MH1000/C/U |

For the most up-to-date product information, see www.gelighting.com.

| GE Description | Osram/ Sylvania Description | Philips Description |
|---|---|---------------------|
| Order This GE Lamp | If you currently use these lamps | |
| Multi-Vapor® Standard Metal Halide Lamps (continued) | | |
| Multi-Vapor® | MetalArc® | |
| MVR1000/VBU | MS1000/BU | MS1000/BU |
| MPR1000/VBU/O | MP1000/BU | MP1000/BU |
| MVR1500/U/SPORTS | M1500/BU-HOR | MH1500BU |
| MVR250/HOR/PA | MS250/PS/U | — |
| MVR320/HOR/PA | MS320/PS/BU-HOR | MS320/PS/U |
| MVR400/HOR/ED28/PA | M400/PS/U/BT28 | — |
| Safety Metal Halide Lamps | | |
| MVT400/C/VBU | MPT400/C/BU | MHT400/C/U |
| Mercury Vapor Lamps | | |
| HR40/50DX45-46 | H45/46DL-40/50/DX | H46DL-40-50/DX |
| HR75DX43 | H43AV-75/DX | H43AV-75/DX |
| HR100A38/A23 | — | — |
| HR100DX38/A23 | H38AV-100/DX | H38MP-100/DX |
| HR100A38 | H38HT-100 | H38HT-100 |
| HR100DX38 | H38JA-100/DX | H38JA-100/DX |
| HR100WDX38 | H38JA-100/N | — |
| HR100RFL38 | — | — |
| HR100RDXFL38 | H38BP-100/DX | H38BP-100/DX |
| HR175A39 | H39KB-175 | H39KB-175 |
| HR175DX39 | H39KC-175/DX | H39KC-175/DX |
| HT175DX39 | H39KC-T175/DX | H39KC-T175 |
| HR175WDX39 | H39KC-175/N | — |
| HR175RFL39 | — | H39BM-175 |
| HR175RDXFL39 | H39BP-175/DX | H39BP-175/DX |
| HR250A37 | H37KB-250 | H37KB-250 |
| HR250DX37 | H37KC-250/DX | H37KC-250/DX |
| HR400A33 | H33CD-400 | H33CD-400 |
| HR400DX33 | H33GL-400/DX | H33GL-400/DX |
| HR400DX33BT | — | — |
| HT400DX33 | H33GL-T400/DX | H33GL-T400/DX |
| HR400WDX33 | H33GL-400/N | — |
| HR400RDX33 | — | H33DN-400/DX |
| HR400RDXFL33 | — | H33FS-400/DX |
| HR1000DX34 | H34GW-1000/DX | H34GW-1000/DX |
| HR1000A36 | H36GV-1000 | H36GV-1000 |
| HR1000DX36 | H36GW-1000/DX | H36GW-1000/DX |

Fluorescent Lamps

| | | |
|--|------|--|
| Lamp Locator | 4-3 | |
| Base Identification | 4-4 | |
| Introduction | 4-4 | |
| Product Information | 4-5 | |
| Section Headings | 4-7 | |
| T5 Starcoat® Ecolux® Lamps | | |
| T5 High Efficiency | 4-8 | |
| T5 High Output | 4-8 | |
| T5 High Output Extra-Life | 4-8 | |
| Ultra Energy Saving T5 Lamps | | |
| T5 High Efficiency Watt-Miser® | 4-8 | |
| T5 High Output Watt-Miser® | 4-9 | |
| T5 High Output 47W Watt-Miser® | 4-9 | |
| T5 High Lumen | 4-9 | |
| T5 Preheat Lamps | | |
| 6" T5, 9" T5, 12" T5, 21" T5 | 4-9 | |
| T8 Starcoat® Lamps | | |
| 2' T8 Ecolux®, 2' T8 Ecolux® XL Extra-life | 4-9 | |
| 2' T8 Ecolux® 17 Watt Super Long life | 4-10 | |
| 3' T8 Ecolux®, 3' T8 Ecolux® XL Extra-life | 4-10 | |
| 3' T8 Ecolux® 25 Watt Super Long Life | 4-10 | |
| 4' T8 Ecolux®, 4' T8 Ecolux® XL Extra-life, 4' T8 Ecolux® Super Long Life, 4' T8 Ecolux® High Coloring Rendering | 4-10 | |
| Ultra Energy Saving T8 Lamps | | |
| 2' T8 Ecolux® Watt-Miser® 15 Watt Lamp | 4-10 | |
| 3' T8 Ecolux® Watt-Miser® 22 Watt Lamp | 4-11 | |
| 4' T8 Ecolux® 25 Watt Lamp, 4' T8 Ecolux® UltraMax® 28 Watt Lamp, 4' T8 Ecolux® High Lumen | 4-11 | |
| 8' T8 Lamps | | |
| 8' T8 XL Extra-Life, 8' T8 XL Extra-Life Watt-Miser® Plus Energy Saving Lamps, 8' T8 49W XL Extra-Life Watt- Miser® Energy Saving Lamps | 4-11 | |
| 8' T8 Instant Start | 4-12 | |
| 8' T8 High Output | | |
| 8' T8 High Output – Recessed Double Contact | 4-12 | |
| T8 Mod-U-Line® | | |
| T8 1-5/8" Spacing Ecolux®, T8 1-5/8" 29W Ecolux®, T8 1-5/8" 26W Ecolux®, T8 6" Spacing, T8 6" Spacing Ecolux®, T8 6" Spacing Ecolux® Watt-Miser® 30 Watt Lamp, T8 6" Spacing Ecolux® 28 Watt Lamp | 4-12 | |
| Other T8 Lengths | | |
| 18" T8 w/Starcoat®, 5' T8 w/Starcoat®, 6' T8 Instant Start | 4-12 | |
| T8 Polylux | | |
| 2' T8 Polylux, 4' T8 Polylux, 5' T8 Polylux, 6' T8 Polylux | 4-13 | |
| T8 Preheat | | |
| 12" T8, 15" T8, 18" T8, 36" T8 | 4-13 | |
| T12 Lamps | | |
| 3' T12 Ecolux® – Rapid Start 25W, 30W | 4-13 | |
| 4' T12 Rapid Start 34W Watt-Miser® Ecolux® – TCLP Compliant | 4-13 | |
| 40W Ecolux® – TCLP Compliant | 4-14 | |
| T12 Mod-U-Line® Watt-Miser® Energy Saving Lamps T12 3-5/8" Spacing Watt-Miser®, T12 6" Spacing Watt-Miser® | 4-14 | |
| T12 Instant Start Watt-Miser® Energy Saving Lamps | 4-14 | |
| 8' T12 Instant Start 8' Instant Start Standard | 4-14 | |
| Watt-Miser® Energy Saving Lamps 8" Instant Start Watt-Miser®, 8" Instant Start Watt-Miser® XL Extra-Life | 4-14 | |
| T12 Other Lengths 5' T12 Instant Start, 64" T12 Instant Start | 4-14 | |
| 6' T12 Instant Start, 7' T12 Instant Start | 4-15 | |
| T12 High Output (800mA) Rapid Start Recessed Double Contact 18" High Output | 4-15 | |
| 2' High Output | 4-15 | |
| 30" High Output, 3' High Output | 4-15 | |
| 42" High Output, 4' High Output | 4-15 | |
| 4' High Output Watt-Miser® Energy Saving Lamps | 4-15 | |
| 5' High Output, 64" High Output | 4-15 | |
| 6' High Output, 7' High Output, 8' High Output, 8' High Output Watt-Miser® Energy Saving Lamps | 4-16 | |
| T12 Very High Output (1500mA) Recessed Double Contact | 4-16 | |
| T12 Preheat 15", 18", 24" | 4-16 | |
| Other Diameters | | |
| T6 Instant Start | 4-16 | |
| T17 Instant Start, Pg17 T17 Preheat | 4-17 | |
| Power Groove Recessed Double Contact (1500mA) | 4-17 | |
| T9 Circline® Lamps | 4-17 | |

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
FluorescentLED Lamps,
Tubes and Modules

Stage and Studio

Miniature, Sealed
Beam and Automotive

Projection

Fluorescent Lamps

Special Application Lamps

covRguard® Shatter Resistant
 T5 High Efficiency, T5 High Output, T5 High Output
 Watt-Miser®, T5 Preheat Lamps.....4-17

T8 Ecolux® w/Starcoat®
 2' T8 Ecolux® w/Starcoat®, 3' Ecolux® w/Starcoat®,
 4' T8 (48") Ecolux® w/Starcoat®, 4' T8 Ecolux®
 XL Extra-life w/Starcoat®4-18

Ultra Energy Saving T8 Lamps w/covRguard®
 4' T8 Ecolux® 25 Watt Lamp, 4' T8 Ecolux®
 UltraMax® 28 Watt Lamp, 4' T8 Ecolux®
 High Lumen XL Extra-Life w/Starcoat®4-18

5' T8 w/Starcoat®
 5' T8 (60") w/Starcoat®4-18

T8 Instant Start w/Starcoat®
 8' T8 (96") Instant Start w/Starcoat®4-18

8' T8 High Output Lamps Recessed Double Contact
 w/Starcoat®4-19

T8 Preheat Lamps.....4-19

T12 Rapid Start Lamps
 3' Ecolux® T12 (36").....4-19

4' T12 Ecolux® Rapid Start Watt-Miser®
 Lamps (48").....4-19

T12 Instant Start.....4-19

T12 Instant Start – Watt-Miser® Energy Saving Lamps
 8' T12 Rapid Start Watt-Miser® Lamps (96").....4-19

T12 Preheat4-19

T12 High Output Lamps Recessed Double
 Contact.....4-19

T12 High Output Lamps Recessed Double
 Contact – Watt-Miser® Energy Saving Lamps.....4-19

Germicidal covRguard®

T8.....4-19

Cold Temperature Lamps

T5, T84-19

High Output (800mA) Recessed
 Double Contact.....4-20

T10 Very High Output (1500mA) Recessed
 Double Contact.....4-20

T12 Very High Output (1500mA) Recessed
 Double Contact.....4-20

Appliance Lamps

T8, T12.....4-20

Blacklight/Blacklight Blue Lamps4-20

Colored Lamps

T8, T12, Preheat4-21

Gold Lamps

T5, T8, T12.....4-21

Germicidal Lamps

Plant and Aquarium/Terrarium Lamps
 T8

18" T8.....4-21

T12
 24" T12, 48" T124-22

Export Outside U.S. and Canada Only

Consumer Products

T8
 4' T84-22

T12
 4' F40 Ecolux® Standard4-22

Mod-U-Line® Watt-Miser® U-Tubes.....4-22

T12 Instant Start
 4' T12, 8' T12 Watt-Miser® Energy
 Saving Lamps4-22

T12 Rapid Start4-22

T12 High Output Rapid Start Recessed
 Double Contact.....4-23

Preheat

T5, T8, T12.....4-23

Blacklight, Blacklight Blue4-23

T9 Circline®4-23

covRguard® Shatter Resistant

T8 Preheat.....4-24

T12 Rapid Start Watt-Miser®, T12 Preheat.....4-24

Plant and Aquarium/Terrarium

Operating Notes

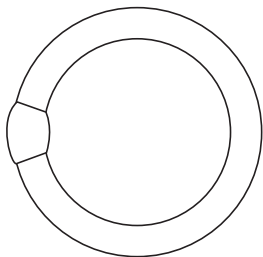
General Information

Scotopic/Photopic (S/P) Ratio

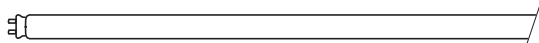
Footnotes

Warning and Caution Notices

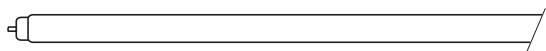
Lamp Locator (not drawn to scale)



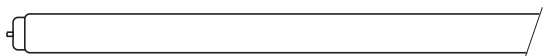
T9 Circline (1-1/8" diameter) 4-Pin Base (G10q)



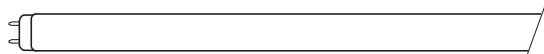
T5 (5/8" diameter) Miniature Bi-Pin Base (G5)



T6 (3/4" diameter) Single Pin Base (Fa8)



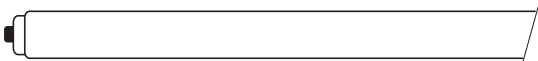
T8 (1" diameter) Single Pin Base (Fa8)



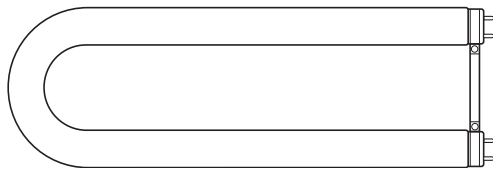
T8 (1" diameter) Medium Bi-Pin Base (G13)



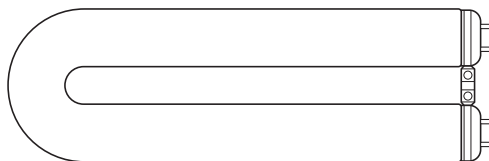
T8 (1" diameter) Recessed Double Contact Base (R17d)



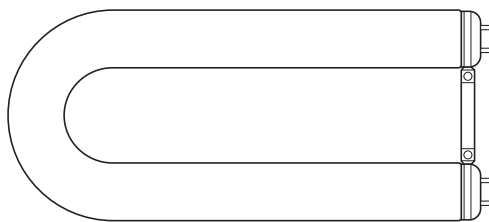
T10 (1 1/4" diameter) Recessed Double Contact Base (R17d)



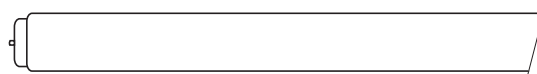
Mod-U-Line® T8/U6 (1" diameter) Medium Bi-Pin Base (G13)



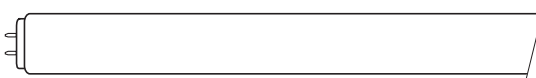
Mod-U-Line® T12/U3 (1 1/2" diameter) Medium Bi-Pin Base (G13)



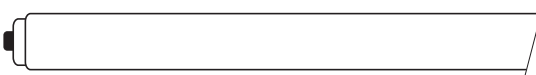
Mod-U-Line® T12/U6 (1-1/2" diameter) Medium Bi-Pin Base (G13)



T12 (1-1/2" diameter) Single Pin Base (Fa8)



T12 (1-1/2" diameter) Medium Bi-Pin Base (G13)



T12 (1-1/2" diameter) Recessed Double Contact Base (R17d)



T17 (2-1/8" diameter) Mogul Bi-Pin (G20)



Power Groove® (2-1/8" diameter)
Recessed Double Contact Base (R17d)

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
Fluorescent

LED Lamps,
Tubes and Modules

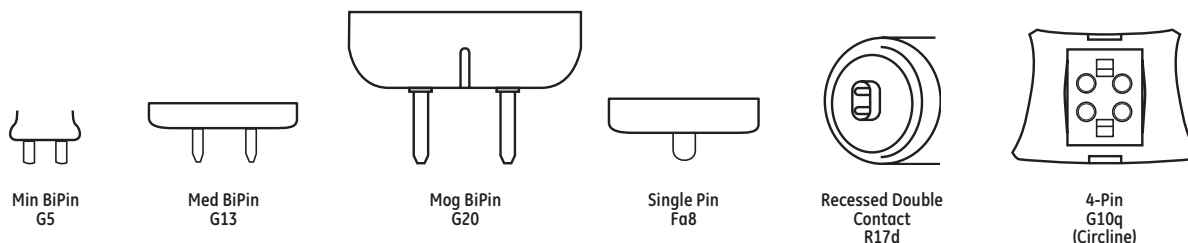
Stage and Studio

Miniature, Sealed
Beam and Automotive

Projection

Fluorescent Lamps

Base Identification



Introduction

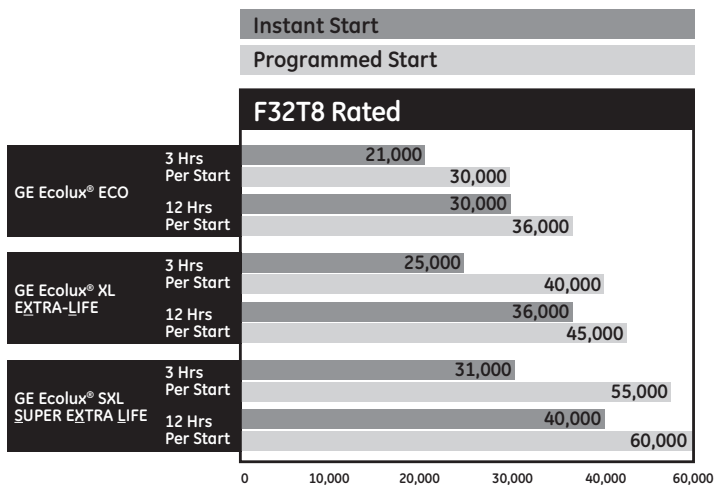
GE introduced the first fluorescent lamp in 1939. Today, these lamps have become almost a universal standard in office and other lighting applications. The characteristics of fluorescent lamps vary widely according to the lamp type. In general, fluorescent lamps have the following advantages:

- Low Operating Cost:**
 Efficient, fluorescent lamps can cost significantly less to operate over their lifetime than incandescent lamps. Many common linear fluorescent lamps now have energy-saving versions often designated in this catalog by Watt-Miser® (WM).
- Long Life:**
 Life ratings for fluorescent lamps range from 36,000 to 55,000 hours based on the industry standard of 3 burning hours per start, except where noted.
- Light Quality:**
 GE Starcoat® T5 and T8 lamps offer higher color rendering and lumen maintenance of 92%-95%.
- Flexibility:**
 Fluorescent lamps are available in a wide range of sizes, shapes, color performance, and wattage ratings.
- Fast Starting:**
 Rapid Start and Instant Start lamps typically start within 1 second of being turned on.

| GE | OSRAM/SYLVANIA | PHILIPS |
|-----------------------------|------------------------|-----------------------------|
| Aquarium/Terrarium | — | — |
| Chroma 50 | Design 50® | Colortone 50 |
| covRguard® | — | Tuff Away® |
| Ecolux® | Ecologic | Alto |
| Gro & Sho™/Plant & Aquarium | GRO-LUX® | Agro-Lite |
| Kitchen and Bath ULTRA™ | Interior Design® (D30) | Softone Pastel FL (SPEC 30) |
| Mod-U-Line® | Curvalume® | U-Bent |
| Power Groove® | — | — |
| Specification Series (SP) | Designer® Series (D) | SPEC Series |
| Specification Series (SPX) | Designer® "800" Series | Ultralume™ |
| Starcoat® | — | — |
| T5 | Pentron® | Silhouette™ |
| T8 | Octron® | TL70/TL80™ |
| T10/1500MA | VHO/LT | — |
| /1500 | VHO | VHO |
| Watt-Miser® | SuperSaver® | Econ-o-Watt |
| Watt-Miser® Plus | SuperSaver Plus® | — |
| XL | XP | Plus |

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturers' performance specifications and product offerings should be consulted. Lamp performance may be affected by environmental conditions, ballast type and/or other auxiliary equipment.

See www.gelighting.com e-Catalog for a comprehensive cross-reference tool.



Life ratings are based on engineering data on programmed start ballasts with lamps cycled every 3 operating hours.

Product Information

GE T5 Starcoat® Ecolux® Lamps (pg 4-8)

- Used in a variety of applications from indirect fixtures in commercial office buildings to warehouses and manufacturing facilities
- Many combinations of wattage and length provide flexibility of fixture design and ceiling layout
- Longer rated life at 30,000 hours
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

GE Ultra Energy Saving T5 Lamps (pg 4-8 to 4-9)

- High Output Watt-Miser®: Over 5% energy savings versus standard Starcoat® T5 HO lamps. Same lumen output. Great for use in high-bay systems.
- High Efficiency Watt-Misers®: Over 5% energy savings versus standard Starcoat® T5 HE lamps. Same lumen output. Available in four different lengths.
- High Lumen T5: 5% greater lumen output versus standard Starcoat® F28WT5 lamps. Same wattage. Great for new commercial troffers.
- Excellent color rendering – 85 CRI
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA).

GE Ultra Energy Saving Ecolux® T5 High Output 47 Watt Watt-Miser® (pg 4-9)

- GE's highest efficiency and lowest wattage T5 HO combination at 102 LPW
- Relamp existing full wattage 54W lamp with the 47W T5 lamp and saves energy
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

GE T8 Starcoat® Ecolux® Lamps (pgs 4-9 to 4-10)

- More light over life – 94-95% lumen maintenance
- Enhanced color rendering...available in 700 and 800 series
- High system efficiency, relative to T12, delivers significant energy cost savings
- TCLP Compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

GE Starcoat® Ecolux® XL Extra-Life and SXL Super Long Life lamps (pgs 4-9 to 4-10)

- Same great features of the T8 Starcoat® Ecolux®...with longer life... up to 67% longer than standard T8 lamps

GE Ultra Energy Saving T8 Lamps 2ft and 3ft T8 Watt-Misers® (pg 4-10 to 4-11)

- Energy-saving alternative to standard 2ft and 3ft T8 lamps. Up to 12% energy savings versus standard F17T8 and/or F25T8 lamps, with approximately 10% light loss.
- Excellent color rendering – 80+ CRI
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA).

GE Ultra Energy Saving T8 Lamps 4ft T8 25 Watt Lamp (pg 4-11)

- Lowest wattage 4ft T8 currently available.
- Longer rated life at 50,000 hours depending on ballast type and burn cycle
- Operates on any ANSI compliant T8 Instant Start or Programmed Start ballast; also approved on GE UltraStart® PRS ballast
- Excellent color rendering – 80+ CRI
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)
- Approximately 10% less light

GE Ultra Energy Saving T8 Lamps T8 28W UltraMax® (pg 4-11)

- Highly efficient T8 system utilizing the new 28W T8 lamp designed for optimal use on the GE UltraMax® ballast product family
- Operates on any ANSI compliant T8 Instant Start or Programmed Start ballast
- Also approved for use on GE UltraStart® PRS ballast
- 80+ CRI (Color Rendering Index) and TCLP compliant
- Approximately 4% less light

GE Ultra Energy Saving T8 Lamps T8 32W High Lumen Lamps (HL) (pg 4-11)

- 5-8% more lumens than GE 32W T8 SP and SPX
- 3100 initial lumens allows you to increase light levels over a standard T8 or the option to implement a de-lamp or de-fixture strategy
- 33% longer life over GE F32T8
- 80+ CRI (Color Rendering Index) and TCLP compliant

GE 8' T8 Lamps (pg 4-11 to 4-12)

- Single-pin based lamps designed to operate on Instant Start Ballast

GE 8' T8 Watt-Miser® Plus and 49W Energy Saving Lamps (pg 4-11)

- One of the most efficient fluorescent products available, up to 107 LPW
- Energy savings...8.5% to 17% less energy consumed than standard F96T8 lamps
- Watt-Miser® Plus has same light output as standard lamps; 49W is approximately 14% less light
- Excellent color rendering – 80+ CRI
- Watt-Miser® Plus lamp reduces wattage to 54W per lamp

GE 8' T8 High Output Lamps (pg 4-12)

- High system efficiency delivers 38% energy cost savings
- 50% longer life than T12 high output lamps
- Wide choice of color options
- Operate at 400mA

Fluorescent Lamps

Product Information (continued)

GE T8 Mod-U-Line® U-Shaped Fluorescent Lamps (pg 4-12)

- Primarily used in 2x2 fixtures with prismatic or parabolic lenses
- Lower energy cost...36% energy cost savings vs. F40T12 U-Tubes
- New Watt-Miser® version saves even more money!
- Longer lamp life than T12 Mod-U-Line® – 20,000 hours
- 700 and 800 Series

GE Energy Saving Mod-U-Line® U-Shaped Fluorescent Lamps (pg 4-12)

- Primarily used in 2x2 fixtures with prismatic or parabolic lenses
- Relamp existing F31T8 Mod-U-Line® with F29T8 or F26T8 Mod-U-Line® and save up to 16% in energy
- Longer lamp life than T12 Mod-U-Line® – 24,000 hours
- Approximately 8 to 17% less light

GE 4' T12 Watt-Miser® Ecolux® Energy Saving Lamps (WM) (pg 4-14)

- Energy-saving replacement for all standard T12 fluorescent lamps
- 12% to 20% savings in energy costs vs. standard fluorescent with approximately 15% light loss
- TCLP compliant, lowering disposal costs where applicable (state and local regulations vary, consult your state EPA)

GE T12 High Output Lamps (pg 4-15 to 4-16)

- High light output and long life
- Produces about 45% more initial lumens than standard lamps of the same size
- Usually operated at 800mA

GE T12 Very High Output Lamps (pg 4-16)

- Where high light levels are required – factories, warehouses, gymnasiums, open areas
- Rapid Start, operated at 1500mA

covRguard® Shatter Resistant Fluorescent Lamps (pg 4-17)

- Polycarbonate shield helps to contain shattered glass particles if lamp is broken, protecting people, food and other valuable items
- UV-blocking properties guard against fading and UV degradation
- Available in a variety of colors for decorative and architectural applications

GE Cold-Temperature Lamps (pg 4-19)

- Specifically designed for cold-temperature applications such as freezers and coolers, display cases and outdoor areas
- Available in T5, T8, T10 and T12 versions
- Rated nominal watts and initial lumens are peak values. Actual watt and lumen values may be somewhat lower in service, depending on ambient conditions.

GE Appliance Lamps (pg 4-20)

- Designed for intermittent service in appliances such as oven hoods and microwaves

GE Blacklight/Blacklight Blue Lamps (pg 4-20)

- Blacklight (BL) lamps are commonly used in insect traps
- Blacklight Blue (BLB) lamps are often used decoratively in disco lighting and theatrical applications. These lamps are produced with a special dark blue glass that filters most visible light.

GE Gold Lamps (pg 4-21)

- Effectively blocks all UV emissions below 520nm
- Available in covRguard®
- Used in photo-sensitive applications such as semi-conductor assembly and darkrooms

GE Germicidal Lamps (pg 4-21)

- Clear lamps with special UV transmitting glass
- The 254nm radiation from appropriately designed and installed devices using the lamps can inactivate many forms of bacteria and other organisms
- Used in air, water and surface purification devices

Headings in this catalog section

The following terms and descriptions can help you when checking Fluorescent lamp specifications and when ordering products. Within each product line, lamps are divided into families, within these

families, lamps are then listed by wattage, then bulb, and then by base. There are exceptions to this ordering among the specialty lamps listed.

Order Code:

It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

Nominal Length (in):

Lamp length including base and/or pins.

Watts:

Energy used (as defined by FTC Lamp Label Rules). To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000.

Bulb Shape:

Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).

Base:
The type of base.

Description:
The lamp's identification code.

Case Quantity:
Number of product units packed in a case.

Rated Life - Hours:
Lamp burning hours to median life expectancy.

Initial Lumens:
Lamp light output after the initial 100 hours of operation.

Mean Lumens:
Lamp light output at 40% of rated lamp life or 8K hours for lamps exceeding 20K hours life.


Color Temperature Kelvins (K):

A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value, the whiter or "cooler" the light appears.

Color Rendering Index (CRI or R_a):

An indication of the ability of the lamp to render object colors in a normal, natural way. The higher the number (0-100), the better the color appearance.

High Color Rendering: 
Indicates that this is a lamp with high color rendering, which helps objects and persons illuminated to appear more true to life.

Reduced Wattage: 
Indicates that this is a reduced wattage option for lamps normally used in this application. Be sure to check wattage, lumens and life to determine which lamp is best suited to your needs.

Warning and Caution Notices:
See page 4-27 for more information.

Footnotes:
Related footnotes, see page 4-26

Additional Information:
Typical application and/or other important information.

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3hr/Start) | Rated Life (12hr/Start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information |
|------------|------|-------|---------------------|------------|-------------|----------|------------------------|-------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|------------------------|
|------------|------|-------|---------------------|------------|-------------|----------|------------------------|-------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|------------------------|

T5 Starcoat Ecolux® Lamps

| High Efficiency | | | | | | | | | | | | | | | | | | | |
|-----------------|-----------------------|----|------|-------|-----------------|----|-------|-------|------|------|------|----|---|--|--|----|-----|--|--|
| T5 | Miniature Bi-Pin (G5) | 14 | 21.6 | 31590 | F14W/T5/830/ECO | 40 | 30000 | 36000 | 1350 | 1240 | 3000 | 85 |  | | | 19 | 101 | | |

F 14W/T5/830 / ECO

Identifies as Fluorescent lamp.

Identifies either the lamp's wattage or its length in inches.

Identifies the lamp shape and the bulb diameter in eighths of an inch.

Identifies the lamp finish or color.

Identifies TCLP compliance.

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape by using table on page 4-3.
2. Measure bulb diameter using ruler in Appendix section page D-1 to determine width in eighths of an inch.
3. Identify base type using table on page 4-4.
4. Find your lamp in the table containing the bulb shape, size and base.



Fluorescent Lamps

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3hr/Start) | Rated Life (12hr/Start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information |
|---------------------------------------|-----------------------|-------|---------------------|------------|------------------|----------|------------------------|-------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|------------------------|
| T5 Starcoat® Ecolux® Lamps | | | | | | | | | | | | | | | | | | |
| T5 High Efficiency | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 14 | 21.6 | 31590 | F14W/T5/830/ECO | 40 | 30000 | 36000 | 1350 | 1240 | 3000 | 85 | ☺ | | | 19 | 101 | |
| | | 14 | 21.6 | 46671 | F14W/T5/835/ECO | 40 | 30000 | 36000 | 1350 | 1240 | 3500 | 85 | ☺ | | | 19 | 101 | |
| | | 14 | 21.6 | 46673 | F14W/T5/841/ECO | 40 | 30000 | 36000 | 1350 | 1240 | 4100 | 85 | ☺ | | | 19 | 101 | |
| | | 14 | 21.6 | 46674 | F14W/T5/850/ECO | 40 | 30000 | 36000 | 1300 | 1190 | 5000 | 85 | ☺ | | | 19 | 101 | |
| | | 14 | 21.6 | 46676 | F14W/T5/865/ECO | 40 | 30000 | 36000 | 1250 | 1150 | 6500 | 85 | ☺ | | | 19 | 101 | |
| | | 21 | 33.4 | 46677 | F21W/T5/830/ECO | 40 | 30000 | 36000 | 2100 | 1930 | 3000 | 85 | ☺ | | | 19 | 101 | |
| | | 21 | 33.4 | 46684 | F21W/T5/835/ECO | 40 | 30000 | 36000 | 2100 | 1930 | 3500 | 85 | ☺ | | | 19 | 101 | |
| | | 21 | 33.4 | 46687 | F21W/T5/841/ECO | 40 | 30000 | 36000 | 2100 | 1930 | 4100 | 85 | ☺ | | | 19 | 101 | |
| | | 21 | 33.4 | 46688 | F21W/T5/850/ECO | 40 | 30000 | 36000 | 2000 | 1840 | 5000 | 85 | ☺ | | | 19 | 101 | |
| | | 21 | 33.4 | 46689 | F21W/T5/865/ECO | 40 | 30000 | 36000 | 1950 | 1790 | 6500 | 85 | ☺ | | | 19 | 101 | |
| | | 28 | 45.2 | 46704 | F28W/T5/830/ECO | 40 | 30000 | 36000 | 2900 | 2660 | 3000 | 85 | ☺ | | | 19 | 101 | |
| | | 28 | 45.2 | 46705 | F28W/T5/835/ECO | 40 | 30000 | 36000 | 2900 | 2660 | 3500 | 85 | ☺ | | | 19 | 101 | |
| | | 28 | 45.2 | 46706 | F28W/T5/841/ECO | 40 | 30000 | 36000 | 2900 | 2660 | 4100 | 85 | ☺ | | | 19 | 101 | |
| | | 28 | 45.2 | 46707 | F28W/T5/850/ECO | 40 | 30000 | 36000 | 2750 | 2530 | 5000 | 85 | ☺ | | | 19 | 101 | |
| | | 28 | 45.2 | 46708 | F28W/T5/865/ECO | 40 | 30000 | 36000 | 2700 | 2480 | 6500 | 85 | ☺ | | | 19 | 101 | |
| | | 35 | 57.1 | 46724 | F35W/T5/830/ECO | 40 | 30000 | 36000 | 3650 | 3350 | 3000 | 85 | ☺ | | | 19 | 101 | |
| | | 35 | 57.1 | 46727 | F35W/T5/835/ECO | 40 | 30000 | 36000 | 3650 | 3350 | 3500 | 85 | ☺ | | | 19 | 101 | |
| | | 35 | 57.1 | 46735 | F35W/T5/841/ECO | 40 | 30000 | 36000 | 3650 | 3350 | 4100 | 85 | ☺ | | | 19 | 101 | |
| | | 35 | 57.1 | 46742 | F35W/T5/850/ECO | 40 | 30000 | 36000 | 3500 | 3220 | 5000 | 85 | ☺ | | | 19 | 101 | |
| | | 35 | 57.1 | 46743 | F35W/T5/865/ECO | 40 | 30000 | 36000 | 3400 | 3120 | 6500 | 85 | ☺ | | | 19 | 101 | |
| T5 High Output | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 24 | 21.6 | 46699 | F24W/T5/830/ECO | 40 | 30000 | 36000 | 2000 | 1840 | 3000 | 85 | ☺ | | | 19 | 101 | |
| | | 24 | 21.6 | 46700 | F24W/T5/835/ECO | 40 | 30000 | 36000 | 2000 | 1840 | 3500 | 85 | ☺ | | | 19 | 101 | |
| | | 24 | 21.6 | 46701 | F24W/T5/841/ECO | 40 | 30000 | 36000 | 2000 | 1840 | 4100 | 85 | ☺ | | | 19 | 101 | |
| | | 24 | 21.6 | 46702 | F24W/T5/850/ECO | 40 | 30000 | 36000 | 1900 | 1740 | 5000 | 85 | ☺ | | | 19 | 101 | |
| | | 24 | 21.6 | 46703 | F24W/T5/865/ECO | 40 | 30000 | 36000 | 1880 | 1740 | 6500 | 85 | ☺ | | | 19 | 101 | |
| | | 39 | 33.4 | 46744 | F39W/T5/830/ECO | 40 | 30000 | 36000 | 3500 | 3220 | 3000 | 85 | ☺ | | | 19 | 101 | |
| | | 39 | 33.4 | 46745 | F39W/T5/835/ECO | 40 | 30000 | 36000 | 3500 | 3220 | 3500 | 85 | ☺ | | | 19 | 101 | |
| | | 39 | 33.4 | 46746 | F39W/T5/841/ECO | 40 | 30000 | 36000 | 3500 | 3220 | 4100 | 85 | ☺ | | | 19 | 101 | |
| | | 39 | 33.4 | 46747 | F39W/T5/850/ECO | 40 | 30000 | 36000 | 3350 | 3080 | 5000 | 85 | ☺ | | | 19 | 101 | |
| | | 39 | 33.4 | 46748 | F39W/T5/865/ECO | 40 | 30000 | 36000 | 3330 | 3060 | 6500 | 85 | ☺ | | | 19 | 101 | |
| | | 54 | 45.2 | 46759 | F54W/T5/830/ECO | 40 | 30000 | 36000 | 5000 | 4600 | 3000 | 85 | ☺ | | | 19 | 101 | |
| | | 54 | 45.2 | 46760 | F54W/T5/835/ECO | 40 | 30000 | 36000 | 5000 | 4600 | 3500 | 85 | ☺ | | | 19 | 101 | |
| | | 54 | 45.2 | 46761 | F54W/T5/841/ECO | 40 | 30000 | 36000 | 5000 | 4600 | 4100 | 85 | ☺ | | | 19 | 101 | |
| | | 54 | 45.2 | 46762 | F54W/T5/850/ECO | 40 | 30000 | 36000 | 4800 | 4410 | 5000 | 85 | ☺ | | | 19 | 101 | |
| | | 54 | 45.2 | 46763 | F54W/T5/865/ECO | 40 | 30000 | 36000 | 4750 | 4370 | 6500 | 85 | ☺ | | | 19 | 101 | |
| | | 80 | 57.1 | 46802 | F80W/T5/830/ECO | 40 | 30000 | 36000 | 7000 | 6440 | 3000 | 85 | ☺ | | | 19 | 101 | |
| | | 80 | 57.1 | 46803 | F80W/T5/835/ECO | 40 | 30000 | 36000 | 7000 | 6440 | 3500 | 85 | ☺ | | | 19 | 101 | |
| | | 80 | 57.1 | 46804 | F80W/T5/841/ECO | 40 | 30000 | 36000 | 7000 | 6440 | 4100 | 85 | ☺ | | | 19 | 101 | |
| | | 80 | 57.1 | 46805 | F80W/T5/850/ECO | 40 | 30000 | 36000 | 6700 | 6160 | 5000 | 85 | ☺ | | | 19 | 101 | |
| | | 80 | 57.1 | 46806 | F80W/T5/865/ECO | 40 | 30000 | 36000 | 6650 | 6110 | 6500 | 85 | ☺ | | | 19 | 101 | |
| T5 High Output Extra-Life | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 54 | 45 | 68836 | F54T5/XL/830/ECO | 40 | 50000 | 60000 | 5000 | 4600 | 3000 | 84 | ☺ | | | 19 | 101 | |
| | | 54 | 45 | 68837 | F54T5/XL/835/ECO | 40 | 50000 | 60000 | 5000 | 4600 | 3500 | 84 | ☺ | | | 19 | 101 | |
| | | 54 | 45 | 68838 | F54T5/XL/841/ECO | 40 | 50000 | 60000 | 5000 | 4600 | 4100 | 84 | ☺ | | | 19 | 101 | |
| | | 54 | 45 | 68839 | F54T5/XL/850/ECO | 40 | 50000 | 60000 | 4800 | 4410 | 5000 | 84 | ☺ | | | 19 | 101 | |
| | | 54 | 45 | 68840 | F54T5/XL/865/ECO | 40 | 50000 | 60000 | 4750 | 4370 | 6500 | 84 | ☺ | | | 19 | 101 | |
| Ultra Energy Saving T5 Lamps | | | | | | | | | | | | | | | | | | |
| T5 High Efficiency Watt-Miser® | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 13 | 21.6 | 71632 | F14T5/830/WM/ECO | 40 | 25000 | 30000 | 1350 | 1240 | 3000 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 13 | 21.6 | 71633 | F14T5/835/WM/ECO | 40 | 25000 | 30000 | 1350 | 1240 | 3500 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 13 | 21.6 | 71634 | F14T5/841/WM/ECO | 40 | 25000 | 30000 | 1350 | 1240 | 4100 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 13 | 21.6 | 71635 | F14T5/850/WM/ECO | 40 | 25000 | 30000 | 1300 | 1190 | 5000 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 13 | 21.6 | 71636 | F14T5/865/WM/ECO | 40 | 25000 | 30000 | 1250 | 1150 | 6500 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 20 | 33.4 | 71637 | F21T5/830/WM/ECO | 40 | 25000 | 30000 | 2100 | 1930 | 3000 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 20 | 33.4 | 71638 | F21T5/835/WM/ECO | 40 | 25000 | 30000 | 2100 | 1930 | 3500 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 20 | 33.4 | 71639 | F21T5/841/WM/ECO | 40 | 25000 | 30000 | 2100 | 1930 | 4100 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 20 | 33.4 | 71640 | F21T5/850/WM/ECO | 40 | 25000 | 30000 | 2000 | 1840 | 5000 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 20 | 33.4 | 71641 | F21T5/865/WM/ECO | 40 | 25000 | 30000 | 1950 | 1790 | 6500 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 26 | 45.2 | 71642 | F28T5/830/WM/ECO | 40 | 25000 | 30000 | 2900 | 2660 | 3000 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 26 | 45.2 | 71643 | F28T5/835/WM/ECO | 40 | 25000 | 30000 | 2900 | 2660 | 3500 | 85 | ☺ | \$ | ↗ | 19 | 101 | |
| | | 26 | 45.2 | 71644 | F28T5/841/WM/ECO | 40 | 25000 | 30000 | 2900 | 2660 | 4100 | 85 | ☺ | \$ | ↗ | 19 | 101 | |

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3hr/Start) | Rated Life (12hr/Start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information | | | | |
|---|-----------------------|-------|---------------------|------------|--------------------|----------|------------------------|-------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|------------------------|-----|-----|-----|--|
| Ultra Energy Saving T5 Lamps (continued) | | | | | | | | | | | | | | | | | | | | | | |
| T5 High Efficiency Watt-Miser® (continued) | | | | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-pin (G5) | 26 | 45.2 | 71645 | F28T5/850/WM/ECO | 40 | 25000 | 30000 | 2750 | 2530 | 5000 | 85 | ☺ | \$ | ➔ | 19 | 101 | | | | | |
| | | 26 | 45.2 | 71646 | F28T5/865/WM/ECO | 40 | 25000 | 30000 | 2700 | 2480 | 6500 | 85 | ☺ | \$ | ➔ | 19 | 101 | | | | | |
| | | 33 | 57.1 | 71647 | F35T5/830/WM/ECO | 40 | 25000 | 30000 | 3650 | 3350 | 3000 | 85 | ☺ | \$ | ➔ | 19 | 101 | | | | | |
| | | 33 | 57.1 | 71648 | F35T5/835/WM/ECO | 40 | 25000 | 30000 | 3650 | 3350 | 3500 | 85 | ☺ | \$ | ➔ | 19 | 101 | | | | | |
| | | 33 | 57.1 | 71649 | F35T5/841/WM/ECO | 40 | 25000 | 30000 | 3650 | 3350 | 4100 | 85 | ☺ | \$ | ➔ | 19 | 101 | | | | | |
| | | 33 | 57.1 | 71650 | F35T5/850/WM/ECO | 40 | 25000 | 30000 | 3500 | 3220 | 5000 | 85 | ☺ | \$ | ➔ | 19 | 101 | | | | | |
| | | 33 | 57.1 | 71651 | F35T5/865/WM/ECO | 40 | 25000 | 30000 | 3400 | 3120 | 6500 | 85 | ☺ | \$ | ➔ | 19 | 101 | | | | | |
| T5 High Output Watt-Miser® | | | | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 51 | 45.2 | 71627 | F54T5/830/WM/ECO | 40 | 30000 | 36000 | 5000 | 4600 | 3000 | 85 | ☺ | \$ | ➔ | 19 | 101 | | | | | |
| | | 51 | 45.2 | 71628 | F54T5/835/WM/ECO | 40 | 30000 | 36000 | 5000 | 4600 | 3500 | 85 | ☺ | \$ | ➔ | 19 | 101 | | | | | |
| | | 51 | 45.2 | 71629 | F54T5/841/WM/ECO | 40 | 30000 | 36000 | 5000 | 4600 | 4100 | 85 | ☺ | \$ | ➔ | 19 | 101 | | | | | |
| | | 51 | 45.2 | 71630 | F54T5/850/WM/ECO | 40 | 30000 | 36000 | 4790 | 4410 | 5000 | 85 | ☺ | \$ | ➔ | 19 | 101 | | | | | |
| | | 51 | 45.2 | 71631 | F54T5/865/WM/ECO | 40 | 30000 | 36000 | 4750 | 4370 | 6500 | 85 | ☺ | \$ | ➔ | 19 | 101 | | | | | |
| T5 High Output 47W Watt-Miser® | | | | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 47 | 45.2 | 62020 | F54T5/47W/830/ECO | 40 | 30000 | 36000 | 4800 | 4410 | 3000 | 84 | ☺ | \$ | ➔ | 19 | 101 | | | | | |
| | | 47 | 45.2 | 62021 | F54T5/47W/835/ECO | 40 | 30000 | 36000 | 4800 | 4410 | 3500 | 84 | ☺ | \$ | ➔ | 19 | 101 | | | | | |
| | | 47 | 45.2 | 62022 | F54T5/47W/841/ECO | 40 | 30000 | 36000 | 4800 | 4410 | 4100 | 84 | ☺ | \$ | ➔ | 19 | 101 | | | | | |
| | | 47 | 45.2 | 62023 | F54T5/47W/850/ECO | 40 | 30000 | 36000 | 4600 | 4230 | 5000 | 84 | ☺ | \$ | ➔ | 19 | 101 | | | | | |
| | | 47 | 45.2 | 62024 | F54T5/47W/865/ECO | 40 | 30000 | 36000 | 4550 | 4180 | 6500 | 84 | ☺ | \$ | ➔ | 19 | 101 | | | | | |
| T5 High Lumen | | | | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 28 | 45.2 | 71652 | F28WTS/830/HL/ECO | 40 | 20000 | 24000 | 3050 | 2810 | 3000 | 85 | ☺ | \$ | | | 19 | 101 | | | | |
| | | 28 | 45.2 | 71653 | F28WTS/835/HL/ECO | 40 | 20000 | 24000 | 3050 | 2810 | 3500 | 85 | ☺ | \$ | | | 19 | 101 | | | | |
| | | 28 | 45.2 | 71654 | F28WTS/841/HL/ECO | 40 | 20000 | 24000 | 3050 | 2810 | 4100 | 85 | ☺ | \$ | | | 19 | 101 | | | | |
| | | 28 | 45.2 | 71655 | F28WTS/850/HL/ECO | 40 | 20000 | 24000 | 2900 | 2670 | 5000 | 85 | ☺ | \$ | | | 19 | 101 | | | | |
| | | 28 | 45.2 | 71656 | F28WTS/865/HL/ECO | 40 | 20000 | 24000 | 2850 | 2620 | 6500 | 85 | ☺ | \$ | | | 19 | 101 | | | | |
| T5 Preheat Lamps | | | | | | | | | | | | | | | | | | | | | | |
| 6" T5 | | | | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 4 | 6.0 | 10004 | F4T5/CW | 24 | 5000 | | 135 | 100 | 4100 | 60 | | | | | | 101 | | | | |
| | | 4 | 6.0 | 15983 | F4T5/CW/CB | 10 | 5000 | | 135 | 100 | 4100 | 60 | | | | | | | 101 | | | |
| | | 4 | 6.0 | 29089 | F4T5/WW/CB | 10 | 5000 | | 140 | 105 | 3000 | 52 | | | | | | | | 101 | | |
| 9" T5 | | | | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 6 | 9.0 | 10032 | F6T5/CW | 24 | 5000 | | 295 | 235 | 4100 | 60 | | | | | | | 101 | | | |
| | | 6 | 9.0 | 15986 | F6T5/CW/CB | 10 | 5000 | | 295 | 235 | 4100 | 60 | | | | | | | | 101 | | |
| | | 6 | 9.0 | 90062 | F6T5/XL/CW | 24 | 8000 | | 260 | 210 | 4100 | 60 | | | | | | | | 101 | | |
| | | 6 | 9.0 | 10028 | F6T5/D | 24 | 5000 | | 230 | 185 | 6500 | 75 | | | | | | | | 101 | | |
| 12" T5 | | | | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 8 | 12.0 | 10059 | F8T5/CW | 24 | 5000 | | 400 | 320 | 4100 | 60 | | | | | | | 101 | | | |
| | | 8 | 12.0 | 15987 | F8T5/CW/CB | 10 | 5000 | | 400 | 320 | 4100 | 60 | | | | | | | | 101 | | |
| | | 8 | 12.0 | 90063 | F8T5/XL/CW | 24 | 8000 | | 400 | 320 | 4100 | 60 | | | | | | | | 101 | | |
| | | 8 | 12.0 | 10055 | F8T5/D | 24 | 5000 | | 330 | 265 | 6500 | 75 | | | | | | | | 101 | | |
| | | 8 | 12.0 | 10064 | F8T5/WW | 24 | 5000 | | 410 | 330 | 3000 | 52 | | | | | | | | | 101 | |
| | | 8 | 12.0 | 25425 | F8T5/WW/CB | 5 | 5000 | | 410 | 330 | 3000 | 52 | | | | | | | | | 101 | |
| 21" T5 | | | | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 13 | 21.0 | 10086 | F13T5/CW | 24 | 5000 | | 850 | 705 | 4100 | 60 | | | | | | | 101 | | | |
| | | 13 | 21.0 | 49333 | F13T5/CW/CB | 5 | 5000 | | 850 | 705 | 4100 | 60 | | | | | | | | 101 | | |
| | | 13 | 21.0 | 90064 | F13T5/XL/CW | 24 | 8000 | | 830 | 690 | 4100 | 60 | | | | | | | | 101 | | |
| | | 13 | 21.0 | 10089 | F13T5/WW | 24 | 5000 | | 870 | 720 | 3000 | 52 | | | | | | | | 101 | | |
| | | 13 | 21.0 | 25426 | F13T5/WW/CB | 5 | 5000 | | 870 | 720 | 3000 | 52 | | | | | | | | | 101 | |
| T8 Starcoat® Lamps | | | | | | | | | | | | | | | | | | | | | | |
| 2' T8 Ecolux® | | | | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 17 | 24.0 | 45741 | F17T8/SP30/ECO | 24 | 30000 | 36000 | 1325 | 1260 | 3000 | 78 | | | | | 18,20 | 101 | | | | |
| | | 17 | 24.0 | 45743 | F17T8/SP35/ECO | 24 | 30000 | 36000 | 1325 | 1260 | 3500 | 78 | | | | | 18,20 | 101 | | | | |
| | | 17 | 24.0 | 45748 | F17T8/SP41/ECO | 24 | 30000 | 36000 | 1325 | 1260 | 4100 | 78 | | | | | 18,20 | 101 | | | | |
| | | 17 | 24.0 | 45742 | F17T8/SPX30/ECO | 24 | 30000 | 36000 | 1350 | 1280 | 3000 | 85 | ☺ | | | | 18,20 | 101 | | | | |
| | | 17 | 24.0 | 45747 | F17T8/SPX35/ECO | 24 | 30000 | 36000 | 1350 | 1280 | 3500 | 85 | ☺ | | | | 18,20 | 101 | | | | |
| | | 17 | 24.0 | 45749 | F17T8/SPX41/ECO | 24 | 30000 | 36000 | 1350 | 1280 | 4100 | 85 | ☺ | | | | 18,20 | 101 | | | | |
| 2' T8 Ecolux® XL Extra-life | | | | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 17 | 24.0 | 15476 | F17T8/XL/SP30/ECO | 24 | 40000 | 45000 | 1325 | 1260 | 3000 | 78 | | | | | 18,20 | 101 | | | | |
| | | 17 | 24.0 | 15479 | F17T8/XL/SP35/ECO | 24 | 40000 | 45000 | 1325 | 1260 | 3500 | 78 | | | | | 18,20 | 101 | | | | |
| | | 17 | 24.0 | 15480 | F17T8/XL/SP41/ECO | 24 | 40000 | 45000 | 1325 | 1260 | 4100 | 78 | | | | | 18,20 | 101 | | | | |
| | | 17 | 24.0 | 15481 | F17T8/XL/SPX30/ECO | 24 | 40000 | 45000 | 1350 | 1280 | 3000 | 85 | ☺ | | | | 18,20 | 101 | | | | |

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4. All footnotes, warning and caution notices found at the end of this section (page 4-26).

Fluorescent Lamps

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3hr/Start) | Rated Life (12hr/Start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information | |
|--|---------------------|------------------------------------|---------------------|------------|-----------------------|----------|------------------------|-------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|------------------------|-----------|
| T8 Starcoat® Lamps (continued) | | | | | | | | | | | | | | | | | | | |
| 2' T8 Ecolux® XL Extra-life (continued) | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 17 | 24.0 | 15483 | F17T8/XL/SPX35/ECO | 24 | 40000 | 45000 | 1350 | 1280 | 3500 | 85 | ☺ | | | 18,20 | 101 | | |
| | | 17 | 24.0 | 15484 | F17T8/XL/SPX41/ECO | 24 | 40000 | 45000 | 1350 | 1280 | 4100 | 85 | ☺ | | | 18,20 | 101 | | |
| | | 17 | 24.0 | 10415 | F17T8/XL/SPX50/ECO | 24 | 40000 | 45000 | 1300 | 1235 | 5000 | 82 | ☺ | | | 18,20 | 101 | | |
| | | 17 | 24.0 | 16092 | F17T8/XL/SPX65/ECO | 24 | 40000 | 45000 | 1250 | 1125 | 6500 | 78 | ☺ | | | 18,20 | 101 | | |
| 2' T8 Ecolux® 17 Watt Super Long Life | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 17 | 24.0 | | F17T8/SXL/SPX35/ECO | 24 | 55000 | 57000 | | | 3500 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 17 | 24.0 | | F17T8/SXL/SPX41/ECO | 24 | 55000 | 57000 | | | 4100 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 17 | 24.0 | | F17T8/SXL/SPX50/ECO | 24 | 55000 | 57000 | | | 5000 | 82 | ☺ | | | 18,21 | 101 | | |
| 3' T8 Ecolux® | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 25 | 36.0 | 45750 | F25T8/SP30/ECO | 24 | 30000 | 36000 | 2080 | 1970 | 3000 | 78 | | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 45754 | F25T8/SP35/ECO | 24 | 30000 | 36000 | 2080 | 1970 | 3500 | 78 | | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 45756 | F25T8/SP41/ECO | 24 | 30000 | 36000 | 2080 | 1970 | 4100 | 78 | | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 45753 | F25T8/SPX30/ECO | 24 | 30000 | 36000 | 2150 | 2040 | 3000 | 85 | ☺ | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 45755 | F25T8/SPX35/ECO | 24 | 30000 | 36000 | 2150 | 2040 | 3500 | 85 | ☺ | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 45757 | F25T8/SPX41/ECO | 24 | 30000 | 36000 | 2150 | 2040 | 4100 | 85 | ☺ | | | 18,20 | 101 | | |
| 3' T8 Ecolux® XL Extra-life | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 25 | 36.0 | 15486 | F25T8/XL/SP30/ECO | 24 | 40000 | 45000 | 2080 | 1970 | 3000 | 78 | | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 15487 | F25T8/XL/SP35/ECO | 24 | 40000 | 45000 | 2080 | 1970 | 3500 | 78 | | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 15488 | F25T8/XL/SP41/ECO | 24 | 40000 | 45000 | 2080 | 1970 | 4100 | 78 | | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 15489 | F25T8/XL/SPX30/ECO | 24 | 40000 | 45000 | 2150 | 2040 | 3000 | 85 | ☺ | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 15490 | F25T8/XL/SPX35/ECO | 24 | 40000 | 45000 | 2150 | 2040 | 3500 | 85 | ☺ | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 15491 | F25T8/XL/SPX41/ECO | 24 | 40000 | 45000 | 2150 | 2040 | 4100 | 85 | ☺ | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 10416 | F25T8/XL/SPX50/ECO | 24 | 40000 | 45000 | 2050 | 1950 | 5000 | 82 | ☺ | | | 18,20 | 101 | | |
| | | 25 | 36.0 | 16314 | F25T8/XL/SPX65/ECO | 24 | 40000 | 45000 | 1950 | 1755 | 6500 | 78 | ☺ | | | 18,20 | 101 | | |
| 3' T8 Ecolux® 25 Watt Super Long Life | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 25 | 36.0 | | F25T8/SXL/SPX35/ECO | 24 | 55000 | 57000 | | | 3500 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 25 | 36.0 | | F25T8/SXL/SPX41/ECO | 24 | 55000 | 57000 | | | 4100 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 25 | 36.0 | | F25T8/SXL/SPX50/ECO | 24 | 55000 | 57000 | | | 5000 | 82 | ☺ | | | 18,21 | 101 | | |
| 4' T8 Ecolux® | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 48.0 | 66347 | F32T8/SPP30/ECO | 36 | 30000 | 36000 | 2900 | 2725 | 3000 | 80 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 66348 | F32T8/SPP35/ECO | 36 | 30000 | 36000 | 2900 | 2725 | 3500 | 80 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 66349 | F32T8/SPP41/ECO | 36 | 30000 | 36000 | 2900 | 2725 | 4100 | 80 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 66350 | F32T8/SPP50/ECO | 36 | 30000 | 36000 | 2900 | 2725 | 5000 | 80 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 66351 | F32T8/SPP65/ECO | 36 | 30000 | 36000 | 2900 | 2725 | 6500 | 78 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 68850 | F32T8/SPX30/ECO2 | 36 | 30000 | 36000 | 2925 | 2770 | 3000 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 68851 | F32T8/SPX35/ECO2 | 36 | 30000 | 36000 | 2925 | 2770 | 3500 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 68852 | F32T8/SPX41/ECO2 | 36 | 30000 | 36000 | 2925 | 2770 | 4100 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 68853 | F32T8/SPX50/ECO2 | 36 | 30000 | 36000 | 2900 | 2755 | 5000 | 82 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 66342 | F32T8/SPX65/ECO2 | 36 | 30000 | 36000 | 2900 | 2755 | 6500 | 78 | ☺ | | | 18,21 | 101 | | |
| | | 4' T8 Ecolux® XL Extra-life | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 48.0 | 68854 | F32T8/XL/SPX30/ECO2 | 36 | 40000 | 45000 | 2925 | 2770 | 3000 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 68855 | F32T8/XL/SPX35/ECO2 | 36 | 40000 | 45000 | 2925 | 2770 | 3500 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 68856 | F32T8/XL/SPX41/ECO2 | 36 | 40000 | 45000 | 2925 | 2770 | 4100 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 68857 | F32T8/XL/SPX50/ECO2 | 36 | 40000 | 45000 | 2850 | 2700 | 5000 | 82 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 68858 | F32T8/XL/SPX65/ECO2 | 36 | 40000 | 45000 | 2750 | 2610 | 6500 | 78 | ☺ | | | 18,21 | 101 | | |
| 4' T8 Ecolux® Super Long Life | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 48.0 | 73093 | F32T8/SXL/SPX30/ECO | 36 | 65000 | 67000 | 2850 | 2675 | 3000 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 73094 | F32T8/SXL/SPX35/ECO | 36 | 65000 | 67000 | 2850 | 2675 | 3500 | 85 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 73095 | F32T8/SXL/SPX41/ECO | 36 | 65000 | 67000 | 2850 | 2675 | 4100 | 82 | ☺ | | | 18,21 | 101 | | |
| | | 32 | 48.0 | 73096 | F32T8/SXL/SPX50/ECO | 36 | 65000 | 67000 | 2800 | 2630 | 5000 | 80 | ☺ | | | 18,21 | 101 | | |
| 4' T8 Ecolux® High Color Rendering | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 48 | 66343 | F32T8/C50/ECO | 36 | 30000 | 36000 | 1700 | 1600 | 5000 | 90 | ☺ | | | | | | Chroma 50 |
| | | 32 | 48 | 66344 | F32T8/C75/ECO | 36 | 30000 | 36000 | 1700 | 1600 | 7500 | 93 | ☺ | | | | | | Chroma 75 |
| Ultra Energy Saving T8 Lamps | | | | | | | | | | | | | | | | | | | |
| 2' T8 Ecolux® Watt-Miser® 15 Watt Lamp | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 15 | 24.0 | 72132 | F17T8/XL/SPX30/WM/ECO | 24 | 45000 | 50000 | 1200 | 1130 | 3000 | 85 | ☺ | \$ | ☺ | 1,18,20 | 101 | | |
| | | 15 | 24.0 | 72133 | F17T8/XL/SPX35/WM/ECO | 24 | 45000 | 50000 | 1200 | 1130 | 3500 | 85 | ☺ | \$ | ☺ | 1,18,20 | 101 | | |
| | | 15 | 24.0 | 72134 | F17T8/XL/SPX41/WM/ECO | 24 | 45000 | 50000 | 1200 | 1130 | 4100 | 82 | ☺ | \$ | ☺ | 1,18,20 | 101 | | |
| | | 15 | 24.0 | 72135 | F17T8/XL/SPX50/WM/ECO | 24 | 45000 | 50000 | 1175 | 1105 | 5000 | 80 | ☺ | \$ | ☺ | 1,18,20 | 101 | | |

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3hr/Start) | Rated Life (12hr/Start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information |
|---|---------------------|-------|---------------------|------------|------------------------|----------|------------------------|-------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|------------------------|
| Ultra Energy Saving T8 Lamps (continued) | | | | | | | | | | | | | | | | | | |
| 3' T8 Ecolux® Watt-Miser® 22 Watt Lamp | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 22 | 36.0 | 72136 | F25T8/XL/SPX30/WM/ECO | 24 | 45000 | 50000 | 1925 | 1810 | 3000 | 85 | ☺ | \$ | ✖ | 1,18,20 | 101 | |
| | | 22 | 36.0 | 72137 | F25T8/XL/SPX35/WM/ECO | 24 | 45000 | 50000 | 1925 | 1810 | 3500 | 85 | ☺ | \$ | ✖ | 1,18,20 | 101 | |
| | | 22 | 36.0 | 72138 | F25T8/XL/SPX41/WM/ECO | 24 | 45000 | 50000 | 1925 | 1810 | 4100 | 82 | ☺ | \$ | ✖ | 1,18,20 | 101 | |
| | | 22 | 36.0 | 72139 | F25T8/XL/SPX50/WM/ECO | 24 | 45000 | 50000 | 1900 | 1785 | 5000 | 80 | ☺ | \$ | ✖ | 1,18,20 | 101 | |
| 4' T8 Ecolux® 25 Watt Lamp | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 25 | 48.0 | 66467 | F32T8/25W/SPP35/ECO | 36 | 40000 | 45000 | 2500 | 2350 | 3500 | 80 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 25 | 48.0 | 66468 | F32T8/25W/SPP41/ECO | 36 | 40000 | 45000 | 2500 | 2350 | 4100 | 80 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 25 | 48.0 | 66469 | F32T8/25W/SPP50/ECO | 36 | 40000 | 45000 | 2500 | 2350 | 5000 | 80 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 25 | 48.0 | 72128 | F32T8/25W/SPX30/ECO | 36 | 50000 | 55000 | 2500 | 2350 | 3000 | 85 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 25 | 48.0 | 72129 | F32T8/25W/SPX35/ECO | 36 | 50000 | 55000 | 2500 | 2350 | 3500 | 85 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 25 | 48.0 | 72130 | F32T8/25W/SPX41/ECO | 36 | 50000 | 55000 | 2500 | 2350 | 4100 | 85 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 25 | 48.0 | 72131 | F32T8/25W/SPX50/ECO | 36 | 50000 | 55000 | 2500 | 2350 | 5000 | 80 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| 4' T8 Ecolux® 25 Watt Super Long Life | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 25 | 48.0 | 93905 | F32T825W/SXL/SPX35/ECO | 36 | 80,000 | 84,000 | 2,400 | 2,260 | 3500 | 82 | ☺ | \$ | ✖ | 18, 21 | 101 | CEE Approved |
| | | 25 | 48.0 | 93906 | F32T825W/SXL/SPX41/ECO | 36 | 80,000 | 84,000 | 2,400 | 2,260 | 4100 | 82 | ☺ | \$ | ✖ | 18, 21 | 101 | CEE Approved |
| | | 25 | 48.0 | 93907 | F32T825W/SXL/SPX50/ECO | 36 | 80,000 | 84,000 | 2,400 | 2,260 | 5000 | 80 | ☺ | \$ | ✖ | 18, 21 | 101 | CEE Approved |
| 4' T8 Ecolux® UltraMax® 28 Watt Lamp | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 28 | 48.0 | 66471 | F28T8/XL/SPP35/ECO | 36 | 40000 | 45000 | 2600 | 2440 | 3500 | 80 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 28 | 48.0 | 66472 | F28T8/XL/SPP41/ECO | 36 | 40000 | 45000 | 2600 | 2440 | 4100 | 80 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 28 | 48.0 | 66473 | F28T8/XL/SPP50/ECO | 36 | 40000 | 45000 | 2600 | 2440 | 5000 | 80 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 28 | 48.0 | 72863 | F28T8/XL/SPX30/ECO | 36 | 45000 | 50000 | 2675 | 2515 | 3000 | 85 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 28 | 48.0 | 72864 | F28T8/XL/SPX35/ECO | 36 | 45000 | 50000 | 2675 | 2515 | 3500 | 85 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 28 | 48.0 | 72866 | F28T8/XL/SPX41/ECO | 36 | 45000 | 50000 | 2675 | 2515 | 4100 | 82 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 28 | 48.0 | 72867 | F28T8/XL/SPX50/ECO | 36 | 45000 | 50000 | 2675 | 2515 | 5000 | 80 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| | | 28 | 48.0 | 66346 | F28T8/XL/SPX65/ECO | 36 | 45000 | 50000 | 2600 | 2440 | 6500 | 80 | ☺ | \$ | ✖ | 1,18,21 | 101 | CEE Approved |
| 4' T8 Ecolux® UltraMax® 28 Watt Super Long Life | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 28 | 48.0 | 93902 | F28T8/SXL/SPX35/ECO | 36 | 80,000 | 84,000 | 2,600 | 2,440 | 3500 | 82 | ☺ | \$ | ✖ | 18, 21 | 101 | CEE Approved |
| | | 28 | 48.0 | 93903 | F28T8/SXL/SPX41/ECO | 36 | 80,000 | 84,000 | 2,600 | 2,440 | 4100 | 82 | ☺ | \$ | ✖ | 18, 21 | 101 | CEE Approved |
| | | 28 | 48.0 | 93904 | F28T8/SXL/SPX50/ECO | 36 | 80,000 | 84,000 | 2,600 | 2,440 | 5000 | 80 | ☺ | \$ | ✖ | 18, 21 | 101 | CEE Approved |
| 4' T8 Ecolux® High Lumen | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 48.0 | 10327 | F32T8/XL/SPX30/HL/ECO | 36 | 40000 | 45000 | 3100 | 2915 | 3000 | 85 | ☺ | \$ | | 18,21 | 101 | CEE Approved |
| | | 32 | 48.0 | 10326 | F32T8/XL/SPX35/HL/ECO | 36 | 40000 | 45000 | 3100 | 2915 | 3500 | 85 | ☺ | \$ | | 18,21 | 101 | CEE Approved |
| | | 32 | 48.0 | 10322 | F32T8/XL/SPX41/HL/ECO | 36 | 40000 | 45000 | 3100 | 2915 | 4100 | 82 | ☺ | \$ | | 18,21 | 101 | CEE Approved |
| | | 32 | 48.0 | 42556 | F32T8/XL/SPX50/HL/ECO | 36 | 40000 | 45000 | 3000 | 2820 | 5000 | 80 | ☺ | \$ | | 18,21 | 101 | CEE Approved |
| 8' T8 Lamps | | | | | | | | | | | | | | | | | | |
| 8' T8 XL Extra-Life | | | | | | | | | | | | | | | | | | |
| T8 | Single Pin (Fa8) | 59 | 96.0 | 67969 | F96T8/XL/SPP35 | 24 | 24000 | 30000 | 5800 | 5220 | 3500 | 80 | ☺ | | | | 101 | |
| | | 59 | 96.0 | 67970 | F96T8/XL/SPP41 | 24 | 24000 | 30000 | 5800 | 5220 | 4100 | 80 | ☺ | | | | 101 | |
| | | 59 | 96.0 | 67971 | F96T8/XL/SPP50 | 24 | 24000 | 30000 | 5800 | 5220 | 5000 | 80 | ☺ | | | | 101 | |
| | | 59 | 96.0 | 68868 | F96T8/XL/SPX30/2 | 24 | 24000 | 30000 | 5950 | 5650 | 3000 | 85 | ☺ | | | | 101 | |
| | | 59 | 96.0 | 68869 | F96T8/XL/SPX35/2 | 24 | 24000 | 30000 | 5950 | 5650 | 3500 | 85 | ☺ | | | | 101 | |
| | | 59 | 96.0 | 68870 | F96T8/XL/SPX41/2 | 24 | 24000 | 30000 | 5950 | 5650 | 4100 | 85 | ☺ | | | | 101 | |
| | | 59 | 96.0 | 68871 | F96T8/XL/SPX50/2 | 24 | 24000 | 30000 | 5950 | 5650 | 5000 | 82 | ☺ | | | | 101 | |
| 8' T8 XL Extra-Life Watt-Miser® Plus Energy Saving Lamps | | | | | | | | | | | | | | | | | | |
| T8 | Single Pin (Fa8) | 54 | 96.0 | 66891 | F96T8/54W/SPP35 | 24 | 24000 | 30000 | 5250 | 4900 | 3500 | 80 | ☺ | \$ | ✖ | 1 | 101 | |
| | | 54 | 96.0 | 66892 | F96T8/54W/SPP41 | 24 | 24000 | 30000 | 5250 | 4900 | 4100 | 80 | ☺ | \$ | ✖ | 1 | 101 | |
| | | 54 | 96.0 | 47076 | F96T8/XL/SP35/WMP | 24 | 24000 | 30000 | 5800 | 5450 | 3500 | 85 | ☺ | \$ | ✖ | 1 | 101 | |
| | | 54 | 96.0 | 47103 | F96T8/XL/SP41/WMP | 24 | 24000 | 30000 | 5800 | 5450 | 4100 | 82 | ☺ | \$ | ✖ | 1 | 101 | |
| | | 54 | 96.0 | 66889 | F96T8/XL/SP50/WMP | 24 | 24000 | 30000 | 5500 | 5160 | 5000 | 80 | ☺ | \$ | ✖ | 1 | 101 | |
| | | 54 | 96.0 | 66890 | F96T8/XL/SP65/WMP | 24 | 24000 | 30000 | 5400 | 5020 | 6500 | 78 | ☺ | \$ | ✖ | 1 | 101 | |
| 8' T8 49W XL Extra-Life Watt-Miser® Energy Saving Lamps | | | | | | | | | | | | | | | | | | |
| T8 | Single Pin (Fa8) | 49 | 96.0 | 66894 | F96T8/49W/SPP35 | 24 | 24000 | 30000 | 4800 | 4500 | 3500 | 80 | ☺ | \$ | ✖ | 1 | 101 | |
| | | 49 | 96.0 | 66895 | F96T8/49W/SPP41 | 24 | 24000 | 30000 | 4800 | 4500 | 4100 | 80 | ☺ | \$ | ✖ | 1 | 101 | |
| | | 49 | 96.0 | 79401 | F96T8/49W/SPX30 | 24 | 24000 | 30000 | 5000 | 4700 | 3000 | 84 | ☺ | \$ | ✖ | 1 | 101 | |
| | | 49 | 96.0 | 79402 | F96T8/49W/SPX35 | 24 | 24000 | 30000 | 5000 | 4700 | 3500 | 84 | ☺ | \$ | ✖ | 1 | 101 | |
| | | 49 | 96.0 | 79403 | F96T8/49W/SPX41 | 24 | 24000 | 30000 | 5000 | 4700 | 4100 | 83 | ☺ | \$ | ✖ | 1 | 101 | |

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4. All footnotes, warning and caution notices found at the end of this section (page 4-26).

Fluorescent Lamps

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information |
|---|--------------------------------|-------|---------------------|------------|-----------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|--|
| 8' T8 Lamps (continued) | | | | | | | | | | | | | | | | | | |
| 8' T8 Instant Start | | | | | | | | | | | | | | | | | | |
| T8 | Single Pin (Fa8) | 50 | 96.0 | 10912 | F96T8/CW | 24 | 7500 | | 4050 | 3730 | 4100 | 60 | | | | | 101 | |
| 8' T8 High Output | | | | | | | | | | | | | | | | | | |
| 8' T8 High Output – Recessed Double Contact | | | | | | | | | | | | | | | | | | |
| T8 | Recessed Double Contact (R17d) | 86 | 96.0 | 12536 | F96T8/SP30/HO | 24 | 18000 | | 8000 | 7600 | 3000 | 78 | | | | | 101 | |
| | | 86 | 96.0 | 12537 | F96T8/SP35/HO | 24 | 18000 | | 8000 | 7600 | 3500 | 78 | | | | | 101 | |
| | | 86 | 96.0 | 12538 | F96T8/SP41/HO | 24 | 18000 | | 8000 | 7600 | 4100 | 78 | | | | | 101 | |
| | | 86 | 96.0 | 12533 | F96T8/SPX35/HO | 24 | 18000 | | 8200 | 7800 | 3500 | 85 | ☺ | | | | 101 | |
| | | 86 | 96.0 | 12534 | F96T8/SPX41/HO | 24 | 18000 | | 8200 | 7800 | 4100 | 85 | ☺ | | | | 101 | |
| | | 86 | 96.0 | 12535 | F96T8/SPX50/HO | 24 | 18000 | | 8200 | 7800 | 5000 | 82 | ☺ | | | | 101 | |
| | | 86 | 96.0 | 66897 | F96T8/SPX65/HO | 24 | 18000 | | 8000 | 7500 | 6500 | 78 | ☺ | | | | 101 | |
| T8 Mod-U-Line® | | | | | | | | | | | | | | | | | | |
| T8 1-5/8" Spacing Ecolux® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 31 | 22.5 | 72117 | F31T8/SPX30/U/ECO | 15 | 24000 | | 2775 | 2440 | 3000 | 82 | ☺ | | | 20 | 102 | |
| | | 31 | 22.5 | 72118 | F31T8/SPX35/U/ECO | 15 | 24000 | | 2775 | 2440 | 3500 | 82 | ☺ | | | 20 | 102 | |
| | | 31 | 22.5 | 72119 | F31T8/SPX41/U/ECO | 15 | 24000 | | 2775 | 2440 | 4100 | 82 | ☺ | | | 20 | 102 | |
| T8 1-5/8" 29W Ecolux® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 29 | 22.5 | 62172 | F29T8/SPX30/U/ECO | 15 | 24000 | | 2500 | 2200 | 3000 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| | | 29 | 22.5 | 62173 | F29T8/SPX35/U/ECO | 15 | 24000 | | 2500 | 2200 | 3500 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| | | 29 | 22.5 | 62174 | F29T8/SPX41/U/ECO | 15 | 24000 | | 2500 | 2200 | 4100 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| T8 1-5/8" 26W Ecolux® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 26 | 22.5 | 62169 | F26T8/SPX30/U/ECO | 15 | 24000 | | 2250 | 1980 | 3000 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| | | 26 | 22.5 | 62170 | F26T8/SPX35/U/ECO | 15 | 24000 | | 2250 | 1980 | 3500 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| | | 26 | 22.5 | 62171 | F26T8/SPX41/U/ECO | 15 | 24000 | | 2250 | 1980 | 4100 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| T8 6" Spacing | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 22.5 | 68920 | F32T8/SPX30/U6/2 | 12 | 20000 | | 2800 | 2630 | 3000 | 82 | ☺ | | | 20 | 102 | |
| | | 32 | 22.5 | 68921 | F32T8/SPX35/U6/2 | 12 | 20000 | | 2800 | 2630 | 3500 | 82 | ☺ | | | 20 | 102 | |
| | | 32 | 22.5 | 68922 | F32T8/SPX41/U6/2 | 12 | 20000 | | 2800 | 2630 | 4100 | 82 | ☺ | | | 20 | 102 | |
| | | 32 | 22.5 | 68923 | F32T8/SPX50/U6/2 | 12 | 20000 | | 2660 | 2510 | 5000 | 82 | ☺ | | | 20 | 102 | |
| T8 6" Spacing Ecolux® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 22.5 | 28145 | F32T8/SP30/U6/ECO | 12 | 20000 | | 2700 | 2375 | 3000 | 78 | | | | 20 | 102 | |
| | | 32 | 22.5 | 28149 | F32T8/SP35/U6/ECO | 12 | 20000 | | 2700 | 2375 | 3500 | 78 | | | | 20 | 102 | |
| | | 32 | 22.5 | 28152 | F32T8/SP41/U6/ECO | 12 | 20000 | | 2700 | 2375 | 4100 | 78 | | | | 20 | 102 | |
| | | 32 | 22.5 | 72111 | F32T8/SPX30/U6/ECO | 12 | 20000 | | 2800 | 2465 | 3000 | 82 | ☺ | | | 20 | 102 | |
| | | 32 | 22.5 | 72112 | F32T8/SPX35/U6/ECO | 12 | 20000 | | 2800 | 2465 | 3500 | 82 | ☺ | | | 20 | 102 | |
| | | 32 | 22.5 | 72113 | F32T8/SPX41/U6/ECO | 12 | 20000 | | 2800 | 2465 | 4100 | 82 | ☺ | | | 20 | 102 | |
| T8 6" Spacing Ecolux® Watt-Miser® 30 Watt Lamp | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 30 | 22.5 | 72114 | F32T8/SPX30/U6/WM/ECO | 12 | 24000 | | 2800 | 2465 | 3000 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| | | 30 | 22.5 | 72115 | F32T8/SPX35/U6/WM/ECO | 12 | 24000 | | 2800 | 2465 | 3500 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| | | 30 | 22.5 | 72116 | F32T8/SPX41/U6/WM/ECO | 12 | 24000 | | 2800 | 2465 | 4100 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| T8 6" Spacing Ecolux® 28 Watt Lamp | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 28 | 23.0 | 67394 | F28T8/SPX30/U6/ECO | 12 | 20000 | | 2500 | 2200 | 3000 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| | | 28 | 23.0 | 67395 | F28T8/SPX35/U6/ECO | 12 | 20000 | | 2500 | 2200 | 3500 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| | | 28 | 23.0 | 67396 | F28T8/SPX41/U6/ECO | 12 | 20000 | | 2500 | 2200 | 4100 | 82 | ☺ | \$ | ➔ | 20 | 102 | |
| Other T8 Lengths | | | | | | | | | | | | | | | | | | |
| 18" T8 w/Starcoat® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 15 | 18.0 | 49489 | F15T8/XL/SPX65 | 24 | 24000 | | 850 | 800 | 6500 | 75 | ☺ | | | | 101 | |
| 5' T8 w/Starcoat® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 40 | 60.0 | 22660 | F40T8/SPX30 | 24 | 20000 | | 3725 | 3350 | 3000 | 84 | ☺ | | | | 101 | |
| | | 40 | 60.0 | 22661 | F40T8/SPX35 | 24 | 20000 | | 3725 | 3350 | 3500 | 84 | ☺ | | | | 101 | |
| | | 40 | 60.0 | 22662 | F40T8/SPX41 | 24 | 20000 | | 3725 | 3350 | 4100 | 84 | ☺ | | | | 101 | |
| 6' T8 Instant Start | | | | | | | | | | | | | | | | | | |
| T8 | Single Pin (Fa8) | 35 | 72.0 | 10829 | F72T8/CW | 24 | 7500 | | 3000 | 2730 | 4100 | 60 | | | | | 101 | Not for sale for use in OR |
| | | 35 | 72.0 | 10835 | F72T8/MW 6PK | 6 | 7500 | | 3100 | 2820 | 3000 | 52 | | | | | 101 | Warm White, Not for sale for use in OR |

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information |
|---|---------------------|-------|---------------------|------------|-----------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|------------|-----------------------------|------------------------|
| T8 PolyLux | | | | | | | | | | | | | | | | | | |
| 2' T8 PolyLux | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 18 | 24.0 | 93311 | F18T8/835/XLR | 25 | 20000 | | 1350 | 1280 | 3500 | 85 | ☺ | | | | 101 | |
| | | 18 | 24.0 | 93317 | F18T8/841/XLR | 25 | 20000 | | 1350 | 1280 | 4100 | 85 | ☺ | | | | | 101 |
| 4' T8 PolyLux | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 36 | 48.0 | 19991 | F36WT8/835/XLR | 25 | 20000 | | 3350 | 3180 | 3500 | 85 | ☺ | | | | 101 | |
| | | 36 | 48.0 | 16856 | F36WT8/841/XLR | 25 | 20000 | | 3350 | 3180 | 3500 | 85 | ☺ | | | | | 101 |
| 5' T8 PolyLux | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 58 | 60.0 | 40120 | F58T8/835/PLY/XLR | 25 | 20000 | | 5200 | 4940 | 3500 | 85 | ☺ | | | | 101 | |
| | | 58 | 60.0 | 40081 | F58T8/841/PLY/XLR | 25 | 20000 | | 5200 | 4940 | 4000 | 85 | ☺ | | | | | 101 |
| 6' T8 PolyLux | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 70 | 70.0 | 62572 | F70T8/835/PLY/XLR | 25 | 20000 | | 6000 | 5985 | 3500 | 85 | ☺ | | | | 101 | |
| | | 70 | 70.0 | 62573 | F70T8/840/PLY/XLR | 25 | 20000 | | 6000 | 5985 | 4100 | 85 | ☺ | | | | | 101 |
| T8 Preheat | | | | | | | | | | | | | | | | | | |
| 12" T8 | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 13 | 12.0 | 10098 | F13T8/CW | 24 | 7500 | | 565 | 480 | 4100 | 60 | | | | | 101 | |
| 15" T8 | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 14 | 15.0 | 10104 | F14T8/CW | 24 | 7500 | | 685 | 580 | 4100 | 60 | | | | | 101 | |
| 18" T8 | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 15 | 18.0 | 17911 | F15T8/SP35 | 24 | 7500 | | 940 | 850 | 3500 | 75 | | | | | 101 | |
| | | 15 | 18.0 | 19643 | F15T8/SP41 | 24 | 7500 | | 940 | 850 | 4100 | 72 | | | | | 101 | |
| | | 15 | 18.0 | 19644 | F15T8/SPX30 | 24 | 7500 | | 1000 | 900 | 3000 | 82 | ☺ | | | | 101 | |
| | | 15 | 18.0 | 19645 | F15T8/SPX35 | 24 | 7500 | | 1000 | 900 | 3500 | 82 | ☺ | | | | 101 | |
| | | 15 | 18.0 | 10142 | F15T8/CW | 24 | 7500 | | 825 | 725 | 4100 | 60 | | | | | 101 | |
| | | 15 | 18.0 | 10143 | F15T8/CW 6PK | 24 | 7500 | | 825 | 725 | 4100 | 60 | | | | | 101 | |
| | | 15 | 18.0 | 10134 | F15T8/D | 24 | 7500 | | 700 | 615 | 6500 | 75 | | | | | 101 | Daylight |
| | | 15 | 18.0 | 21326 | F15T8/KB 6PK | 24 | 7500 | | 940 | 850 | 3000 | 70 | | | | | 104 | Kitchen & Bath |
| | | 15 | 18.0 | 13968 | F15T8/SUN 6PK | 24 | 7500 | | 620 | 525 | 5000 | 90 | ☺ | | | | 101 | Sunlight |
| 15 | 18.0 | 10147 | F15T8/WW | 24 | 7500 | | 845 | 745 | 3000 | 52 | | | | | 101 | Warm White | | |
| 36" T8 | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 30 | 36.0 | 10316 | F30T8/CW 6PK | 24 | 7500 | | 2150 | 1980 | 4100 | 60 | | | | | 101 | |
| | | 30 | 36.0 | 10310 | F30T8/D | 24 | 7500 | | 1850 | 1625 | 6500 | 75 | | | | | 101 | Daylight |
| | | 30 | 36.0 | 22747 | F30T8/KB 6PK | 24 | 7500 | | 2125 | 1910 | 3000 | 70 | | | | | 104 | Kitchen & Bath |
| T12 Lamps | | | | | | | | | | | | | | | | | | |
| 3' T12 Ecolux® - Rapid Start | | | | | | | | | | | | | | | | | | |
| 25W | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 25 | 36.0 | 80080 | F25T12/SP30/RS/WM/ECO | 24 | 18000 | | 2025 | 1780 | 3000 | 70 | | \$ | ☹ | | 101 | |
| | | 25 | 36.0 | 80081 | F25T12/SP35/RS/WM/ECO | 24 | 18000 | | 2025 | 1780 | 3500 | 73 | | \$ | ☹ | | 101 | |
| | | 25 | 36.0 | 80065 | F25T12/CWRSWM/ECO | 24 | 18000 | | 1925 | 1640 | 4100 | 60 | | \$ | ☹ | | 101 | |
| | | 25 | 36.0 | 80077 | F25T12/WW/RS/WM/ECO | 24 | 18000 | | 1975 | 1640 | 3000 | 52 | | \$ | ☹ | | 101 | Warm White |
| 30W | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 30 | 36.0 | 80087 | F30T12/SP35/RS/ECO | 24 | 18000 | | 2350 | 2120 | 3500 | 73 | | | | | 101 | |
| | | 30 | 36.0 | 80088 | F30T12/SP41/RS/ECO | 24 | 18000 | | 2350 | 2120 | 4100 | 72 | | | | | 101 | |
| | | 30 | 36.0 | 80089 | F30T12/SPX30/RS/ECO | 24 | 18000 | | 2375 | 2140 | 3000 | 82 | ☺ | | | | 101 | |
| | | 30 | 36.0 | 80090 | F30T12/SPX35/RS/ECO | 24 | 18000 | | 2375 | 2140 | 3500 | 82 | ☺ | | | | 101 | |
| | | 30 | 36.0 | 80083 | F30T12/C50/RS/ECO | 24 | 18000 | | 1650 | 1350 | 5000 | 90 | ☺ | | | | 101 | Chroma 50 |
| | | 30 | 36.0 | 80084 | F30T12/CW/RS/ECO | 24 | 18000 | | 2200 | 1910 | 4100 | 60 | | | | | 101 | |
| | | 30 | 36.0 | 80085 | F30T12/CW/RS/ECO 6PK | 24 | 18000 | | 2200 | 1910 | 4100 | 60 | | | | | 101 | |
| | | 30 | 36.0 | 80086 | F30T12/D/RS/ECO | 24 | 18000 | | 1900 | 1650 | 6500 | 75 | | | | | 101 | Daylight |
| | | 30 | 36.0 | 80091 | F30T12/WW/RS/ECO | 24 | 18000 | | 2275 | 1980 | 3000 | 52 | | | | | 101 | Warm White |
| 4' T12 - Rapid Start | | | | | | | | | | | | | | | | | | |
| 34W Watt-Miser® Ecolux® - TCLP Compliant | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 34 | 48.0 | 66474 | F34CX41/WM/ECO | 30 | 20000 | | 2500 | 2200 | 4100 | 87 | ☺ | \$ | ☹ | 1 | 101 | |
| | | 34 | 48.0 | 66649 | F34CW/C/WM/ECO | 30 | 15000 | | 1800 | 1500 | 4100 | 87 | ☺ | \$ | ☹ | 1 | 101 | |
| | | 34 | 48.0 | 80092 | F34C50/RS/WM/ECO | 30 | 20000 | | 2000 | 1720 | 5000 | 90 | ☺ | \$ | ☹ | 1 | 101 | Chroma 50 |
| | | 34 | 48.0 | 80093 | F34DX/RS/WM/ECO | 30 | 20000 | | 1750 | 1450 | 6500 | 90 | ☺ | \$ | ☹ | 1 | 101 | Daylight Deluxe |

Fluorescent Lamps

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information |
|---|---------------------|-------|-----------------------|------------|-----------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|------------------------------------|
| T12 Lamps (continued) | | | | | | | | | | | | | | | | | | |
| 4' T12 – Rapid Start (continued) | | | | | | | | | | | | | | | | | | |
| 40W Ecolux® – TCLP Compliant | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 40 | 48.0 | 66650 | F40UT/ECO/UPC | 30 | 15000 | | 2100 | 1900 | 4100 | 87 | ☺ | | | | 101 | |
| | | 40 | 48.0 | 80096 | F40C50/ECO | 30 | 20000 | | 2250 | 1870 | 5000 | 90 | ☺ | | | | 101 | Chroma 50 |
| | | 40 | 48.0 | 25399 | F40C50/ECO/UPC | 30 | 20000 | | 2250 | 1870 | 5000 | 90 | ☺ | | | | 101 | Chroma 50 |
| | | 40 | 48.0 | 13795 | F40C75 30PK | 30 | 20000 | | 1950 | 1680 | 7500 | 92 | ☺ | | | | 101 | Not for Sale for Use in CA, VM, OR |
| | | 40 | 48.0 | 80097 | F40DX/ECO | 30 | 20000 | | 2050 | 1740 | 6500 | 90 | ☺ | | | | 101 | Daylight Deluxe |
| | | 40 | 48.0 | 80098 | F40N/ECO | 30 | 20000 | | 2100 | 1740 | 3700 | 90 | ☺ | | | | 101 | Natural |
| | | 40 | 48.0 | 12224 | F40SUN/ECO 6PK | 24 | 20000 | | 2250 | 1870 | 5000 | 90 | ☺ | | | | 101 | Sunlight |
| Watt-Miser® Energy Saving Lamps | | | | | | | | | | | | | | | | | | |
| T12 3-5/8" Spacing Watt-Miser® | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 35 | 22.5 | 68050 | F35/CW/C/U3/W/M | 12 | 14000 | | 1650 | 1400 | 4100 | 87 | | | | | | |
| | | 35 | 23.0 | 66854 | F35/CX41/U3/W/M | 12 | 14000 | | 2300 | 2185 | 4100 | 87 | ☺ | \$ | ↔ | 1 | 102 | |
| T12 6" Spacing Watt-Miser® | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 35 | 22.5 | 68051 | F35/CW/C/U6/W/M | 12 | 14000 | | 1650 | 1400 | 4100 | 87 | | | | | | |
| | | 35 | 23.0 | 66855 | F35/CX41/U6/W/M | 12 | 14000 | | 2300 | 2185 | 4100 | 87 | ☺ | \$ | ↔ | 1 | 102 | |
| | | 35 | 23.0 | 66851 | F35/CX41/U6WMUPC | 12 | 14000 | | 2300 | 2185 | 4100 | 87 | ☺ | \$ | ↔ | 1 | 102 | |
| T12 Instant Start | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 20 | 24.0 | 10691 | F24T12/CW | 24 | 7500 | | 1050 | 900 | 4100 | 60 | | | | | | 101 |
| | | 30 | 36.0 cm | 10709 | F36T12/CW | 24 | 7500 | | 2000 | 1800 | 4100 | 60 | | | | | | 101 |
| | | 35 | 42.0 | 10735 | F42T12/CW | 24 | 7500 | | 2400 | 2210 | 4100 | 60 | | | | | | 101 |
| | | 40 | 48.0 | 15262 | F48T12/SP35 | 24 | 9000 | | 3000 | 2820 | 3500 | 73 | | | | | | 101 |
| | | 40 | 48.0 | 15088 | F48T12/SPX30 | 24 | 9000 | | 3050 | 2870 | 3000 | 82 | ☺ | | | | | 101 |
| | | 40 | 48.0 | 15116 | F48T12/SPX35 | 24 | 9000 | | 3050 | 2870 | 3500 | 82 | ☺ | | | | | 101 |
| | | 40 | 48.0 | 10748 | F48T12/CW | 24 | 9000 | | 2875 | 2650 | 4100 | 60 | | | | | | 101 |
| | | 40 | 48.0 | 20461 | F48T12/CW/UPC 6PK | 24 | 9000 | | 2875 | 2650 | 4100 | 60 | | | | | | 101 |
| Watt-Miser® Energy Saving Lamps | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 30 | 48.0 | 14319 | F48T12/SP35/W/M | 24 | 9000 | | 2575 | 2420 | 3500 | 73 | | \$ | ↔ | 1 | 101 | |
| | | 30 | 48.0 | 13048 | F48T12/SP41/W/M | 24 | 9000 | | 2575 | 2420 | 4100 | 72 | | \$ | ↔ | 1 | 101 | |
| | | 30 | 48.0 | 44967 | F48T12/CW/W/M | 24 | 9000 | | 2475 | 2400 | 4100 | 60 | | \$ | ↔ | 1 | 101 | |
| 8' T12 Instant Start | | | | | | | | | | | | | | | | | | |
| 8' Instant Start Standard | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 75 | 96.0 | 14652 | F96T12/DX | 15 | 12000 | | 4300 | 3870 | 6500 | 90 | ☺ | | | | 101 | Daylight Deluxe |
| | | 75 | 96.0 | 13725 | F96T12/N 15PK | 15 | 12000 | | 4250 | 3740 | 3700 | 90 | ☺ | | | | 101 | Natural |
| | | 75 | 96.0 | 13752 | F96T12/C50 | 15 | 12000 | | 4600 | 4050 | 5000 | 90 | ☺ | | | | 101 | Chroma 50 |
| Watt-Miser® Energy Saving Lamps | | | | | | | | | | | | | | | | | | |
| 8" Instant Start Watt-Miser® | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 60 | 96.0 | 13756 | F96T12/C50/W/M 15PK | 15 | 12000 | | 4000 | 3520 | 5000 | 90 | ☺ | \$ | ↔ | 1 | 101 | Chroma 50 |
| 8" Instant Start Watt-Miser® XL Extra-life | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 60 | 96.0 | 68052 | F96T12/CW/C/W/M | 15 | 12000 | | 3600 | 2900 | 4100 | 90 | | | | | | |
| | | 60 | 96.0 | 66857 | F96T12XL/HL35/W/M | 15 | 12000 | | 5900 | 5480 | 3500 | 80 | ☺ | \$ | ↔ | 1 | 101 | |
| | | 60 | 96.0 | 66858 | F96T12XL/HL41/W/M | 15 | 12000 | | 5900 | 5480 | 4100 | 80 | ☺ | \$ | ↔ | 1 | 101 | |
| | | 60 | 96.0 | 66859 | F96T12XL/HL50/W/M | 15 | 12000 | | 5900 | 5480 | 5000 | 80 | ☺ | \$ | ↔ | 1 | 101 | |
| | | 60 | 96.0 | 66860 | F96T12XL/HL65/W/M | 15 | 12000 | | 5700 | 5290 | 6500 | 78 | ☺ | \$ | ↔ | 1 | 101 | |
| | | 60 | 96.0 | 66856 | F96T12XL/HL35/W/M/UPC | 15 | 12000 | | 5900 | 5480 | 3500 | 80 | ☺ | \$ | ↔ | 1 | 101 | |
| 60 | 96.0 | 66852 | F96T12XL/HL41/W/M/UPC | 15 | 12000 | | 5900 | 5480 | 4100 | 80 | ☺ | \$ | ↔ | 1 | 101 | | | |
| T12 Other Lengths | | | | | | | | | | | | | | | | | | |
| 5' T12 Instant Start | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 50 | 60.0 | 23073 | F60T12/CW 15PK | 15 | 12000 | | 3600 | 3310 | 4100 | 60 | | | | | 101 | |
| | | 50 | 60.0 | 23076 | F60T12/D 15PK | 15 | 12000 | | 3000 | 2760 | 6500 | 75 | | | | | 101 | Daylight |
| 64" T12 Instant Start | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 50 | 64.0 | 23082 | F64T12/CW15PK | 15 | 10000 | | 3850 | 3540 | 4100 | 60 | | | | | 101 | |
| | | 50 | 64.0 | 23085 | F64T12/D 15PK | 15 | 10000 | | 3300 | 3040 | 6500 | 75 | | | | | 101 | Daylight |

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information | |
|--|--------------------------------|---|---------------------|------------|--------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|------------------------|------------|
| T12 Lamps (continued) | | | | | | | | | | | | | | | | | | | |
| T12 Other Lengths (continued) | | | | | | | | | | | | | | | | | | | |
| 6' T12 Instant Start | | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 55 | 72.0 | 15286 | F72T12/SP35 15PK | 15 | 12000 | | 4700 | 4420 | 3500 | 73 | | | | | 101 | | |
| | | 55 | 72.0 | 15097 | F72T12/SP41 | 15 | 12000 | | 4700 | 4420 | 4100 | 72 | | | | | 101 | | |
| | | 55 | 72.0 | 15117 | F72T12/SPX30 15PK | 15 | 12000 | | 4800 | 4510 | 3000 | 82 | ☺ | | | | 101 | | |
| | | 55 | 72.0 | 15098 | F72T12/SPX35 15PK | 15 | 12000 | | 4800 | 4510 | 3500 | 82 | ☺ | | | | 101 | | |
| | | 55 | 72.0 | 13743 | F72T12/CW 15PK | 15 | 12000 | | 4500 | 4140 | 4100 | 60 | | | | | | 101 | |
| | | 55 | 72.0 | 12525 | F72T12/CW/UPC 10PK | 10 | 12000 | | 4500 | 4140 | 4100 | 60 | | | | | | 101 | |
| | | 55 | 72.0 | 13748 | F72T12/D 15PK | 15 | 12000 | | 3800 | 3500 | 6500 | 75 | | | | | | 101 | Daylight |
| 7' T12 Instant Start | | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 65 | 84.0 | 13764 | F84T12/CW 15PK | 15 | 12000 | | 5300 | 4880 | 4100 | 60 | | | | | 101 | | |
| T12 High Output (800mA) Rapid Start Recessed Double Contact | | | | | | | | | | | | | | | | | | | |
| 18" High Output | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 30 | 18.0 | 10204 | F18T12/CW/HO | 24 | 9000 | | 1000 | 750 | 4100 | 60 | | | | | 101 | | |
| 2' High Output | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 35 | 24.0 | 10261 | F24T12/CW/HO | 24 | 9000 | | 1620 | 1345 | 4100 | 60 | | | | | 101 | | |
| | | 35 | 24.0 | 10275 | F24T12/D/HO | 24 | 9000 | | 1400 | 1160 | 6500 | 74 | | | | | 101 | Daylight | |
| 30" High Output | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 40 | 30.0 | 33707 | F30T12/CW/HO | 24 | 9000 | | 2250 | 1950 | 4100 | 60 | | | | | 101 | | |
| 3' High Output | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 45 | 36.0 | 10374 | F36T12/CW/HO | 24 | 9000 | | 2800 | 2440 | 4100 | 60 | | | | | 101 | | |
| | | 45 | 36.0 | 10380 | F36T12/D/HO | 24 | 9000 | | 2350 | 2040 | 6500 | 75 | | | | | 101 | | |
| | | 45 | 36.0 | 10388 | F36T12/SGN/HO | 24 | 9000 | | 2150 | 1830 | 5400 | 82 | ☺ | | | | 101 | | |
| 42" High Output | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 55 | 42.0 | 10559 | F42T12/CW/HO | 24 | 9000 | | 3200 | 2790 | 4100 | 60 | | | | | 101 | | |
| | | 55 | 42.0 | 10560 | F42T12/D/HO | 24 | 9000 | | 2900 | 2520 | 6500 | 74 | | | | | 101 | Daylight | |
| | | 55 | 42.0 | 10562 | F42T12/SGN/HO | 24 | 9000 | | 2600 | 2215 | 5400 | 82 | ☺ | | | | 101 | Sign White | |
| 4' High Output | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 60 | 48.0 | 15359 | F48T12/SP30/HO | 24 | 12000 | | 4250 | 3830 | 3000 | 70 | | | | | | 101 | |
| | | 60 | 48.0 | 15360 | F48T12/SP35/HO | 24 | 12000 | | 4250 | 3830 | 3500 | 73 | | | | | | 101 | |
| | | 60 | 48.0 | 15361 | F48T12/SP41/HO | 24 | 12000 | | 4250 | 3830 | 4100 | 72 | | | | | | 101 | |
| | | 60 | 48.0 | 15115 | F48T12/SPX35/HO | 24 | 12000 | | 4350 | 3920 | 3500 | 82 | ☺ | | | | | 101 | |
| | | 60 | 48.0 | 10773 | F48T12/CW/HO | 24 | 12000 | | 3825 | 3320 | 4100 | 60 | | | | | | 101 | |
| | | 60 | 48.0 | 27313 | F48T12/CW/HO/UPC | 24 | 12000 | | 4050 | 3520 | 4100 | 60 | | | | | | 101 | |
| | | 60 | 48.0 | 10778 | F48T12/D/HO | 24 | 12000 | | 3400 | 2960 | 6500 | 75 | | | | | | 101 | Daylight |
| | | 60 | 48.0 | 10573 | F48T12/SGN/HO | 24 | 12000 | | 3100 | 2640 | 5400 | 80 | ☺ | | | | | 101 | Sign White |
| | | 4' High Output Watt-Miser® Energy Saving Lamps | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 55 | 48.0 | 15342 | F48T12/SP35/HO/WM | 24 | 12000 | | 3850 | 3465 | 3500 | 73 | | \$ | ↗ | 1 | 101 | | |
| | | 55 | 48.0 | 11179 | F48T12/LW/HO/WM | 24 | 12000 | | 3900 | 3390 | 4200 | 49 | | \$ | ↗ | 1 | 101 | Lite White | |
| 5' High Output | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 75 | 60.0 | 23075 | F60T12/CW/HO 15PK | 15 | 12000 | | 5150 | 4480 | 4100 | 60 | | | | | | 101 | |
| | | 75 | 60.0 | 23077 | F60T12/D/HO 15PK | 15 | 12000 | | 4400 | 3830 | 6500 | 75 | | | | | | 101 | Daylight |
| | | 75 | 60.0 | 23081 | F60T12/SGN/HO 15PK | 15 | 12000 | | 4000 | 3400 | 5400 | 82 | ☺ | | | | | 101 | Sign White |
| 64" High Output | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 80 | 64.0 | 23083 | F64T12/CW/HO 15PK | 15 | 12000 | | 5600 | 4870 | 4100 | 60 | | | | | | 101 | |
| | | 80 | 64.0 | 23087 | F64T12/D/HO 15PK | 15 | 12000 | | 4750 | 4130 | 6500 | 75 | | | | | | 101 | Daylight |
| | | 80 | 64.0 | 23089 | F64T12/SGN/HO 15PK | 15 | 12000 | | 4300 | 3660 | 5400 | 82 | ☺ | | | | | 101 | Sign White |

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4. All footnotes, warning and caution notices found at the end of this section (page 4-26).

Fluorescent Lamps

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information | |
|--|--------------------------------|-------|---------------------|------------|------------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|------------|-----------------------------|-------------------------|----------|
| T12 Lamps (continued) | | | | | | | | | | | | | | | | | | | |
| T12 High Output (800mA) Rapid Start Recessed Double Contact (continued) | | | | | | | | | | | | | | | | | | | |
| 6' High Output | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 85 | 72.0 | 15343 | F72T12/SP30/HO 15PK | 15 | 12000 | | 6650 | 5990 | 3000 | 70 | | | | | 101 | | |
| | | 85 | 72.0 | 15347 | F72T12/SP35/HO 15PK | 15 | 12000 | | 6650 | 5990 | 3500 | 73 | | | | | 101 | | |
| | | 85 | 72.0 | 15348 | F72T12/SP41/HO 15PK | 15 | 12000 | | 6650 | 5990 | 4100 | 72 | | | | | 101 | | |
| | | 85 | 72.0 | 15137 | F72T12/SPX30/HO 15PK | 15 | 12000 | | 6800 | 6120 | 3000 | 82 | ☺ | | | | 101 | | |
| | | 85 | 72.0 | 15351 | F72T12/SPX35/HO 15PK | 15 | 12000 | | 6800 | 6120 | 3500 | 82 | ☺ | | | | 101 | | |
| | | 85 | 72.0 | 13697 | F72T12/CW/HO 15PK | 15 | 12000 | | 6350 | 5520 | 4100 | 60 | | | | | 101 | | |
| | | 85 | 72.0 | 13699 | F72T12/D/HO 15PK | 15 | 12000 | | 5350 | 4650 | 6500 | 75 | | | | | 101 | Daylight | |
| | | 85 | 72.0 | 12527 | F72T12/N/HO | 10 | 12000 | | 4300 | 3610 | 3700 | 90 | ☺ | | | | 101 | Natural | |
| | | 85 | 72.0 | 13701 | F72T12/SGN/HO 15PK | 15 | 12000 | | 4900 | 4170 | 5400 | 82 | ☺ | | | | 101 | Sign White | |
| 85 | 72.0 | 13702 | F72T12/WW/HO 15PK | 15 | 12000 | | 6550 | 5700 | 3000 | 52 | | | | | 101 | Warm White | | | |
| 7' High Output | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 100 | 84.0 | 13766 | F84T12/CW/HO 15PK | 15 | 12000 | | 7700 | 6700 | 4100 | 60 | | | | | 101 | | |
| | | 100 | 84.0 | 13767 | F84T12/D/HO 15PK | 15 | 12000 | | 6500 | 5660 | 6500 | 75 | | | | | 101 | Daylight | |
| | | 100 | 84.0 | 13768 | F84T12/SGN/HO 15PK | 15 | 12000 | | 6000 | 5100 | 5400 | 82 | ☺ | | | | 101 | Sign White | |
| 8' High Output | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 110 | 96.0 | 13707 | F96T12/C50/HO 15PK | 15 | 12000 | | 6750 | 5670 | 5000 | 90 | ☺ | | | | 101 | Chroma 50 | |
| | | 110 | 96.0 | 14653 | F96T12/DX/HO | 15 | 12000 | | 6100 | 5185 | 6500 | 90 | ☺ | | | | 101 | Daylight Deluxe | |
| 8' High Output Watt-Miser® Energy Saving Lamps | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 95 | 96.0 | 66861 | F96T12/HL30/HO/WM | 15 | 12000 | | 8850 | 7920 | 3000 | 77 | ☺ | \$ | ↗ | 1 | 101 | | |
| | | 95 | 96.0 | 66862 | F96T12/HL41/HO/WM | 15 | 12000 | | 8850 | 7920 | 4100 | 77 | ☺ | \$ | ↗ | 1 | 101 | | |
| | | 95 | 96.0 | 66853 | F96T12/HL41/HO/WM/UPC | 15 | 12000 | | 8850 | 7920 | 4100 | 77 | ☺ | \$ | ↗ | 1 | 101 | | |
| T12 Very High Output (1500mA) Recessed Double Contact | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 110 | 48.0 | 10751 | F48T12/CW/1500 | 24 | 10000 | | 6200 | 4030 | 4100 | 60 | | | | | 4 | 101 | |
| | | 165 | 72.0 | 13760 | F72T12/CW/1500 15PK | 15 | 10000 | | 9000 | 6300 | 4100 | 60 | | | | | 4 | 101 | |
| | | 185 | 96.0 | 13789 | F96T12/CW/1500/WM 15PK | 15 | 9000 | | 12500 | 9380 | 4100 | 60 | | \$ | ↗ | 4 | 101 | | |
| | | 215 | 96.0 | 13781 | F96T12/CW/1500 15PK | 15 | 10000 | | 13500 | 10125 | 4100 | 60 | | | | | 4 | 101 | |
| | | 215 | 96.0 | 13783 | F96T12/D/1500 15PK | 15 | 10000 | | 11500 | 8630 | 6500 | 74 | | | | | 4 | 101 | Daylight |
| T12 Preheat | | | | | | | | | | | | | | | | | | | |
| 15" | | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 14 | 15.0 | 10116 | F14T12/CW | 24 | 9000 | | 650 | 550 | 4100 | 60 | | | | | 101 | Preheat | |
| | | 14 | 15.0 | 10117 | F14T12/CW 6PK | 24 | 9000 | | 650 | 550 | 4100 | 60 | | | | | 101 | Preheat | |
| | | 14 | 15.0 | 22979 | F14T12/KB 6PK | 24 | 9000 | | 700 | 650 | 3000 | 70 | | | | | 104 | Preheat, Kitchen & Bath | |
| 18" | | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 15 | 18.0 | 10183 | F15T12/CW 6PK | 24 | 9000 | | 760 | 685 | 4100 | 60 | | | | | 101 | Preheat | |
| | | 15 | 18.0 | 22745 | F15T12/KB 6PK | 24 | 9000 | | 785 | 730 | 3000 | 70 | | | | 104 | Preheat, Kitchen & Bath | | |
| | | 15 | 18.0 | 10185 | F15T12/WW | 24 | 9000 | | 780 | 700 | 3000 | 52 | | | | | 101 | Preheat | |
| 24" | | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 20 | 24.0 | 80048 | F20T12/SP35/ECO | 24 | 9000 | | 1275 | 1200 | 3500 | 73 | | | | | 101 | Preheat | |
| | | 20 | 24.0 | 15353 | F20T12/SP41 | 24 | 9000 | | 1275 | 1200 | 4100 | 72 | | | | | 101 | Preheat | |
| | | 20 | 24.0 | 80049 | F20T12/SPX35/ECO | 24 | 9000 | | 1300 | 1220 | 3500 | 82 | ☺ | | | | 101 | Preheat | |
| | | 20 | 24.0 | 80044 | F20T12/C50/ECO | 24 | 9000 | | 875 | 790 | 5000 | 90 | ☺ | | | | 101 | Preheat | |
| | | 20 | 24.0 | 80045 | F20T12/CW/ECO | 24 | 9000 | | 1200 | 1150 | 4100 | 60 | | | | | 101 | Preheat | |
| | | 20 | 24.0 | 80046 | F20T12/CW/ECO 6PK | 24 | 9000 | | 1200 | 1150 | 4100 | 60 | | | | | 101 | Preheat | |
| | | 20 | 24.0 | 80047 | F20T12/D/ECO | 24 | 9000 | | 1025 | 945 | 6500 | 75 | | | | | 101 | Preheat | |
| | | 20 | 24.0 | 25575 | F20T12/D/ECO/UPC | 24 | 9000 | | 1025 | 945 | 6500 | 75 | | | | | 101 | Preheat, Daylight | |
| | | 20 | 24.0 | 21325 | F20T12/KB/ECO | 24 | 9000 | | 1275 | 1200 | 3000 | 70 | | | | | 104 | Preheat, Kitchen & Bath | |
| | | 20 | 24.0 | 14419 | F20T12/SUN/ECO | 24 | 9000 | | 875 | 790 | 5000 | 90 | ☺ | | | | 101 | Preheat, Sunlight | |
| | | 20 | 24.0 | 80050 | F20T12/WW/ECO | 24 | 9000 | | 1250 | 1150 | 3000 | 52 | | | | | 101 | Preheat, Warm White | |
| | | 20 | 24.0 | 25577 | F20T12/WW/ECO/UPC | 24 | 9000 | | 1250 | 1150 | 3000 | 52 | | | | | 101 | Preheat, Warm White | |
| Other Diameters | | | | | | | | | | | | | | | | | | | |
| T6 Instant Start | | | | | | | | | | | | | | | | | | | |
| T6 | Single Pin (Fa8) | 25 | 42.0 | 12221 | F42T6/SP35 | 24 | 7500 | | 1830 | 1700 | 3500 | 73 | | | | | 101 | | |
| | | 25 | 42.0 | 10720 | F42T6/CW | 24 | 7500 | | 1750 | 1580 | 4100 | 60 | | | | | 101 | | |
| | | 25 | 42.0 | 10721 | F42T6/WW | 24 | 7500 | | 1825 | 1640 | 3000 | 52 | | | | | 101 | Warm White | |
| | | 40 | 64.0 | 10805 | F64T6/CW | 24 | 7500 | | 2800 | 2520 | 4100 | 60 | | | | | 101 | | |
| | | 40 | 64.0 | 10807 | F64T6/WW | 24 | 7500 | | 2900 | 2610 | 3000 | 52 | | | | | 101 | Warm White | |

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information | | | |
|--|--------------------------------|-----------------------------------|---------------------|------------|----------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|------------------------------------|----------------|----------------|-----------|
| Other Diameters (continued) | | | | | | | | | | | | | | | | | | | | | |
| T17 Instant Start | | | | | | | | | | | | | | | | | | | | | |
| T17 | Mogul Bi-Pin (G20) | 40 | 60.0 | 10575 | F40T17/CW/IS | 12 | 7500 | | 2850 | 2620 | 4100 | 60 | | | ↔ | 3 | 101 | Use only w/ Instant Start Ballasts | | | |
| Pg17 T17 Preheat | | | | | | | | | | | | | | | | | | | | | |
| T17 | Mogul Bi-Pin (G20) | 82 | 60.0 | 43443 | F90T17/CW/WM | 12 | 9000 | | 5750 | 5060 | 4100 | 60 | | \$ | ↔ | 4 | 101 | | | | |
| | | 90 | 60.0 | 10643 | F90T17/CW | 12 | 9000 | | 6000 | 5280 | 4100 | 60 | | | ↔ | 4 | 101 | | | | |
| Power Groove Recessed Double Contact (1500mA) | | | | | | | | | | | | | | | | | | | | | |
| PG17 | Recessed Double Contact (R17d) | 185 | 96.0 | 42666 | F96PG17/CW/WM | 8 | 12000 | | 12700 | 9900 | 4100 | 60 | | \$ | ↔ | 4 | 101 | | | | |
| | | 215 | 96.0 | 11009 | F96PG17/CW | 8 | 10000 | | 14000 | 10915 | 4100 | 60 | | | ↔ | 4 | 101 | | | | |
| | | 215 | 96.0 | 11018 | F96PG17/D | 8 | 10000 | | 12100 | 9440 | 6500 | 74 | | | | | 4 | 101 | Daylight | | |
| T9 Circline® Lamps | | | | | | | | | | | | | | | | | | | | | |
| T9 | 4-Pin (G10q) | 20 | 6.5 | 42732 | FC6T9/CW | 12 | 12000 | | 800 | 560 | 4100 | 60 | | | | | 101 | | | | |
| | | 22 | 8.25 | 33774 | FC8T9/CW | 12 | 12000 | | 1100 | 825 | 4100 | 60 | | | | | | 101 | | | |
| | | 22 | 8.25 | 11026 | FC8T9/D | 12 | 12000 | | 925 | 690 | 6500 | 75 | | | | | | 101 | Daylight | | |
| | | 22 | 8.25 | 11084 | FC8T9/KB | 6 | 12000 | | 1400 | 1120 | 3000 | 82 | ☺ | | | | | 104 | Kitchen & Bath | | |
| | | 32 | 12.0 | 33890 | FC12T9/CW | 12 | 12000 | | 1950 | 1460 | 4100 | 60 | | | | | | | 101 | | |
| | | 32 | 12.0 | 11039 | FC12T9/D | 12 | 12000 | | 1675 | 1260 | 6500 | 75 | | | | | | | 101 | Daylight | |
| | | 32 | 12.0 | 11085 | FC12T9/KB | 6 | 12000 | | 2400 | 1920 | 3000 | 82 | ☺ | | | | | | 104 | Kitchen & Bath | |
| | | 40 | 16.0 | 33893 | FC16T9/CW | 12 | 12000 | | 2700 | 2030 | 4100 | 60 | | | | | | | 101 | | |
| | | 40 | 16.0 | 11052 | FC16T9/D | 12 | 12000 | | 2250 | 1690 | 6500 | 75 | | | | | | | 101 | Daylight | |
| | | Special Application Lamps | | | | | | | | | | | | | | | | | | | |
| covGuard® Shatter Resistant | | | | | | | | | | | | | | | | | | | | | |
| T5 High Efficiency | | | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 14 | 21.6 | 73194 | F14W/T5/830/ECO/CVG | 40 | 30000 | 36000 | 1310 | 1200 | 3000 | 85 | ☺ | | | | 11,13 | 103 | Blocks UV | | |
| | | 14 | 21.6 | 73195 | F14W/T5/835/ECO/CVG | 40 | 30000 | 36000 | 1310 | 1200 | 3500 | 85 | ☺ | | | | | 11,13 | 103 | Blocks UV | |
| | | 28 | 45.2 | 81546 | F28W/T5/830/ECO/CVG | 40 | 30000 | 36000 | 2813 | 2672 | 3000 | 85 | ☺ | | | | | 11,13 | 103 | Blocks UV | |
| | | 28 | 45.2 | 81547 | F28W/T5/835/ECO/CVG | 40 | 30000 | 36000 | 2813 | 2672 | 3500 | 85 | ☺ | | | | | | 11,13 | 103 | Blocks UV |
| | | 28 | 45.2 | 81548 | F28W/T5/841/ECO/CVG | 40 | 30000 | 36000 | 2813 | 2672 | 4100 | 85 | ☺ | | | | | | 11,13 | 103 | Blocks UV |
| | | 28 | 45.2 | 81549 | F28W/T5/850/ECO/CVG | 40 | 30000 | 36000 | 2667 | 2534 | 5000 | 85 | ☺ | | | | | | 11,13 | 103 | Blocks UV |
| | | 28 | 45.2 | 81550 | F28W/T5/865/ECO/CVG | 40 | 30000 | 36000 | 2319 | 2488 | 6500 | 85 | ☺ | | | | | | 11,13 | 103 | Blocks UV |
| | | T5 High Output | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 24 | 21.6 | 71000 | F24W/T5/830/ECO/CVG | 40 | 30000 | 36000 | 1950 | 1853 | 3000 | 85 | ☺ | | | | 11 | 103 | | | |
| | | 24 | 21.6 | 70998 | F24W/T5/835/ECO/CVG | 40 | 30000 | 36000 | 1950 | 1853 | 3500 | 85 | ☺ | | | | | 11 | 103 | | |
| | | 24 | 21.6 | 70997 | F24W/T5/841/ECO/CVG | 40 | 30000 | 36000 | 1950 | 1853 | 4100 | 85 | ☺ | | | | | 11 | 103 | | |
| | | 24 | 21.6 | 70999 | F24W/T5/850/ECO/CVG | 40 | 30000 | 36000 | 1850 | 1758 | 5000 | 85 | ☺ | | | | | 11 | 103 | | |
| | | 39 | 33.4 | 70995 | F39W/T5/830/ECO/CVG | 40 | 30000 | 36000 | 3400 | 3230 | 3000 | 85 | ☺ | | | | | 11 | 103 | | |
| | | 39 | 33.4 | 70994 | F39W/T5/835/ECO/CVG | 40 | 30000 | 36000 | 3400 | 3230 | 3500 | 85 | ☺ | | | | | 11 | 103 | | |
| | | 39 | 33.4 | 70993 | F39W/T5/841/ECO/CVG | 40 | 30000 | 36000 | 3400 | 3230 | 4100 | 85 | ☺ | | | | | 11 | 103 | | |
| | | 39 | 33.4 | 70990 | F39W/T5/865/ECO/CVG | 40 | 30000 | 36000 | 3200 | 3040 | 6500 | 85 | ☺ | | | | | 11 | 103 | | |
| | | 54 | 45.2 | 48433 | F54T5/830/HO/ECO/CVG | 40 | 30000 | 36000 | 4850 | 4560 | 3000 | 85 | ☺ | | | | | 11 | 103 | | |
| | | 54 | 45.2 | 48436 | F54T5/835/HO/ECO/CVG | 40 | 30000 | 36000 | 4850 | 4560 | 3500 | 85 | ☺ | | | | | 11 | 103 | | |
| | | 54 | 45.2 | 48458 | F54T5/841/HO/ECO/CVG | 40 | 30000 | 36000 | 4850 | 4560 | 4100 | 85 | ☺ | | | | | 11 | 103 | | |
| | | 54 | 45.2 | 80311 | F54T5/850/HO/ECO/CVG | 40 | 30000 | 36000 | 4650 | 4370 | 5000 | 85 | ☺ | | | | | 11 | 103 | | |
| | | 54 | 45.2 | 48469 | F54T5/865/HO/ECO/CVG | 40 | 30000 | 36000 | 4650 | 4320 | 6500 | 85 | ☺ | | | | | 11 | 103 | | |
| | | T5 High Output Watt-Miser® | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 51 | 45.2 | 72986 | F54T5/835/WM/ECO/CVG | 40 | 30000 | 36000 | 4850 | 4560 | 3500 | 85 | ☺ | \$ | ↔ | 11 | 103 | | | | |
| | | 51 | 45.2 | 72987 | F54T5/841/WM/ECO/CVG | 40 | 30000 | 36000 | 4850 | 4560 | 4100 | 85 | ☺ | \$ | ↔ | 11 | 103 | | | | |
| | | 51 | 45.2 | 72988 | F54T5/850/WM/ECO/CVG | 40 | 30000 | 36000 | 4650 | 4370 | 5000 | 85 | ☺ | \$ | ↔ | 11 | 103 | | | | |
| | | 47 | 45.0 | 65106 | F54T5/47W/841CVG | 40 | 30000 | 36000 | 4728 | 4343 | 4100 | 85 | ☺ | \$ | ↔ | 11 | 103 | | | | |
| | | 47 | 45.0 | 65107 | F54T5/47W/850CVG | 40 | 30000 | 36000 | 4531 | 4167 | 5000 | 85 | ☺ | \$ | ↔ | 11 | 103 | | | | |
| T5 Preheat Lamps | | | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 8 | 12.0 | 41107 | F8T5/CW/CVG | 24 | 5000 | | 385 | 310 | 4100 | 60 | | | | | 11,13 | 103 | Blocks UV | | |
| | | 13 | 21.0 | 41108 | F13T5/CW/CVG | 24 | 5000 | | 820 | 684 | 4100 | 60 | | | | | | 11,13 | 103 | Blocks UV | |

Fluorescent Lamps

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information |
|---|---------------------|-------|---------------------|------------|-----------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|------------|-----------------------------|-------------------------|
| Special Application Lamps (continued) | | | | | | | | | | | | | | | | | | |
| T8 Ecolux® w/ Starcoat® | | | | | | | | | | | | | | | | | | |
| 2' T8 Ecolux® w/ Starcoat® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 17 | 24.0 | 15974 | F17T8SP35ECCOCVG | 24 | 30000 | 36000 | 1280 | 1220 | 3500 | 78 | | | | 11,13,18 | 103 | Blocks UV |
| | | 17 | 24.0 | 15977 | F17T8SP41ECCOCVG | 24 | 30000 | 36000 | 1280 | 1220 | 4100 | 78 | | | | 11,13,18 | 103 | Blocks UV |
| | | 17 | 24.0 | 15975 | F17T8SPX35ECCOCVG | 24 | 30000 | 36000 | 1310 | 1242 | 3500 | 85 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| | | 17 | 24.0 | 15976 | F17T8SPX41ECCOCVG | 24 | 30000 | 36000 | 1310 | 1242 | 4100 | 85 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| | | 17 | 24.0 | 28885 | F17T8LSPX50ECCOCVG | 24 | 40000 | 45000 | 1310 | 1243 | 5000 | 82 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| 3' Ecolux® w/Starcoat® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 25 | 36.0 | 15978 | F25T8SP30ECCOCVG | 24 | 30000 | 36000 | 2020 | 1920 | 3000 | 78 | | | | 11,13,18 | 103 | Blocks UV |
| | | 25 | 36.0 | 15981 | F25T8SP35ECCOCVG | 24 | 30000 | 36000 | 2020 | 1920 | 3500 | 78 | | | | 11,13,18 | 103 | Blocks UV |
| | | 25 | 36.0 | 15984 | F25T8SP41ECCOCVG | 24 | 30000 | 36000 | 2020 | 1920 | 4100 | 78 | | | | 11,13,18 | 103 | Blocks UV |
| | | 25 | 36.0 | 15989 | F25T8SP30ECCOCVG | 24 | 30000 | 36000 | 2080 | 1970 | 3000 | 85 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| | | 25 | 36.0 | 15990 | F25T8SP35ECCOCVG | 24 | 30000 | 36000 | 2080 | 1970 | 3500 | 85 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| | | 25 | 36.0 | 15991 | F25T8SPX41ECCOCVG | 24 | 30000 | 36000 | 2080 | 1970 | 4100 | 85 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| | | 25 | 36.0 | 28887 | F25T8LSPX50ECCOCVG | 24 | 40000 | 45000 | 1990 | 1890 | 5000 | 82 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| 4' T8 (48") Ecolux® w/Starcoat® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 48.0 | 94838 | F32T8SP30ECCOCVG | 36 | 30000 | 36000 | 2800 | 2640 | 3000 | 80 | | | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 94839 | F32T8SP35ECCOCVG | 36 | 30000 | 36000 | 2800 | 2640 | 3500 | 80 | | | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 94861 | F32T8SP41ECCOCVG | 36 | 30000 | 36000 | 2800 | 2640 | 4100 | 80 | | | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 94842 | F32T8SP50ECCOCV | 36 | 30000 | 36000 | 2800 | 2640 | 5000 | 80 | | | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 94843 | F32T8SPX65ECCOCV | 36 | 30000 | 36000 | 2800 | 2670 | 6500 | 78 | | | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 41125 | F32T8SP30ECCOCVG | 36 | 30000 | 36000 | 2860 | 2715 | 3000 | 85 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 41126 | F32T8SP35ECCOCVG | 36 | 30000 | 36000 | 2860 | 2715 | 3500 | 85 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 41127 | F32T8SPX41ECCOCVG | 36 | 30000 | 36000 | 2860 | 2715 | 4100 | 85 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 15971 | F32T8SPX50ECCOCVG | 36 | 30000 | 36000 | 2715 | 2580 | 5000 | 82 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| 4' T8 Ecolux® XL Extra-life w/Starcoat® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 48.0 | 15972 | F32T8LSPX30ECCOCVG | 36 | 40000 | 45000 | 2860 | 2715 | 3000 | 85 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 15973 | F32T8LSPX35ECCOCVG | 36 | 40000 | 45000 | 2860 | 2715 | 3500 | 85 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 18369 | F32T8LSPX41ECCOCVG | 36 | 40000 | 45000 | 2860 | 2715 | 4100 | 85 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 23746 | F32T8LSPX50ECCOCVG | 36 | 40000 | 45000 | 2715 | 2580 | 5000 | 82 | ☺ | | | 11,13,18 | 103 | Blocks UV |
| Ultra Energy Saving T8 Lamps w/ covRguard® | | | | | | | | | | | | | | | | | | |
| 4' T8 Ecolux® 25 Watt Lamp | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 25 | 48.0 | 72814 | F32T8/25WSPX41ECCOCVG | 36 | 40000 | 46000 | 2425 | 2350 | 4100 | 82 | ☺ | \$ | ↗ | 1,11,13,18 | 103 | Blocks UV |
| | | 25 | 48.0 | 72815 | F32T8/25WSPX50ECCOCVG | 36 | 40000 | 46000 | 2425 | 2350 | 5000 | 80 | ☺ | \$ | ↗ | 1,11,13,18 | 103 | Blocks UV |
| 4' T8 Ecolux® UltraMax® 28 Watt Lamp | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 28 | 48.0 | 73292 | F28T8/XLSPX30ECCOCV | 36 | 40000 | 46000 | 2595 | 2440 | 3000 | 85 | ☺ | \$ | ↗ | 1,11,13,18 | 103 | Blocks UV, CEE Approved |
| | | 28 | 48.0 | 73293 | F28T8/XLSPX35ECCOCV | 36 | 40000 | 46000 | 2595 | 2440 | 3500 | 85 | ☺ | \$ | ↗ | | 103 | Blocks UV, CEE Approved |
| | | 28 | 48.0 | 73294 | F28T8/XLSPX41ECCOCV | 36 | 40000 | 46000 | 2595 | 2440 | 4100 | 82 | ☺ | \$ | ↗ | | 103 | Blocks UV, CEE Approved |
| | | 28 | 48.0 | 73295 | F28T8/XLSPX50ECCOCV | 36 | 40000 | 46000 | 2595 | 2440 | 5000 | 80 | ☺ | \$ | ↗ | | 103 | Blocks UV |
| 4' T8 Ecolux® High Lumen XL Extra-Life w/Starcoat® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 48.0 | 00268 | F32T8XLSPX35HCVG | 36 | 40000 | 45000 | 3007 | 2827 | 3500 | 85 | ☺ | \$ | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 00269 | F32T8XLSPX41HCVG | 36 | 40000 | 45000 | 3007 | 2827 | 4100 | 82 | ☺ | \$ | | 11,13,18 | 103 | Blocks UV |
| | | 32 | 48.0 | 80497 | F32T8XLSPX50HCVG | 36 | 40000 | 45000 | 2910 | 2735 | 5000 | 80 | ☺ | \$ | | 11,13,18 | 103 | Blocks UV |
| 5' T8 w/Starcoat® | | | | | | | | | | | | | | | | | | |
| 5' T8 (60") w/Starcoat® | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 40 | 60.0 | 41131 | F40T8/SPX35/CVG | 24 | 20000 | | 3610 | 3250 | 3500 | 84 | ☺ | | | 11,13 | 103 | Blocks UV |
| | | 40 | 60.0 | 47351 | F40T8/SPX41/CVG | 24 | 20000 | | 3610 | 3250 | 4100 | 84 | ☺ | | | 11,13 | 103 | Blocks UV |
| T8 Instant Start w/Starcoat® | | | | | | | | | | | | | | | | | | |
| 8' T8 (96") Instant Start w/Starcoat® | | | | | | | | | | | | | | | | | | |
| T8 | Single Pin (Fa8) | 59 | 96.0 | 94856 | F96T8XL/SPX30/CVG | 24 | 24000 | 30000 | 5750 | 5480 | 3000 | 85 | | | | 11,13 | 103 | Blocks UV |
| | | 59 | 96.0 | 94859 | F96T8XL/SPX35/CVG | 24 | 24000 | 30000 | 5600 | 5060 | 3500 | 80 | | | | 11,13 | 103 | Blocks UV |
| | | 59 | 96.0 | 94860 | F96T8XL/SPX41/CVG | 24 | 24000 | 30000 | 5600 | 5060 | 4100 | 80 | | | | 11,13 | 103 | Blocks UV |
| | | 59 | 96.0 | 40099 | F96T8XL/SPX30CVG | 24 | 24000 | 30000 | 5770 | 5480 | 3000 | 85 | ☺ | | | 11,13 | 103 | Blocks UV |
| | | 59 | 96.0 | 40105 | F96T8XL/SPX35/CVG | 24 | 24000 | 30000 | 5770 | 5480 | 3500 | 85 | ☺ | | | 11,13 | 103 | Blocks UV |
| | | 59 | 96.0 | 40106 | F96T8XL/SPX41/CVG | 24 | 24000 | 30000 | 5770 | 5480 | 4100 | 85 | ☺ | | | 11,13 | 103 | Blocks UV |
| | | 59 | 96.0 | 48205 | F96T8XL/SPX50/CVG | 24 | 24000 | 30000 | 5770 | 5480 | 5000 | 82 | ☺ | | | 11,13 | 103 | Blocks UV |

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information | |
|--|--------------------------------|-------|---------------------|------------|-------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|------------|-----------------------------|------------------------|--|
| Special Application Lamps (continued) | | | | | | | | | | | | | | | | | | | |
| 8' T8 High Output Lamps Recessed Double Contact w/Starcoat® | | | | | | | | | | | | | | | | | | | |
| T8 | Recessed Double Contact (R17d) | 86 | 96.0 | 40107 | F96T8/SP35HO/CVG | 24 | 18000 | | 7760 | 7370 | 3500 | 78 | | | | 11,12,13 | 103 | Blocks UV | |
| | | 86 | 96.0 | 40108 | F96T8/SP41HO/CVG | 24 | 18000 | | 7760 | 7370 | 4100 | 78 | | | | 11,12,13 | 103 | Blocks UV | |
| | | 86 | 96.0 | 81563 | F96T8/SPX50HO/CVG | 24 | 18000 | | 7954 | 7566 | 5000 | 82 | ☺ | | | 11,12,13 | 103 | Blocks UV | |
| T8 Preheat Lamps | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 13 | 12.0 | 41109 | F13T8/CW/CVG | 24 | 7500 | | 545 | 465 | 4100 | 60 | | | | 11,13 | 103 | Blocks UV | |
| | | 15 | 18.0 | 41110 | F15T8/CW/CVG | 24 | 7500 | | 800 | 700 | 4100 | 60 | | | | 11,13 | 103 | Blocks UV | |
| | | 15 | 18.0 | 46627 | F15T8/KB/CVG/UPC | 24 | 7500 | | 910 | 825 | 3000 | 70 | | | | 11,13 | 103 | Blocks UV | |
| | | 15 | 18.0 | 46216 | F15T8/SP35/CVG | 24 | 7500 | | 910 | 825 | 3500 | 75 | | | | 11,13 | 103 | Blocks UV | |
| | | 15 | 18.0 | 41111 | F15T8/SPX35/CVG | 24 | 7500 | | 970 | 870 | 3500 | 82 | ☺ | | | 11,13 | 103 | Blocks UV | |
| T12 Rapid Start Lamps | | | | | | | | | | | | | | | | | | | |
| 3' Ecolux® T12 (36") | | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 30 | 36.0 | 80486 | F30T12CWSECO/CVG | 24 | 18000 | | 2130 | 1850 | 4100 | 60 | | | | 11,13 | 103 | Blocks UV | |
| 4' T12 Ecolux® Rapid Start Watt-Miser® Lamps (48") | | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 40 | 48.0 | 80994 | F40DX/ECO/CVG | 30 | 20000 | | 1988 | 1687 | 6500 | 90 | ☺ | | | 11,13 | 103 | Daylight Deluxe | |
| | | 40 | 48.0 | 80496 | F40/CSO/ECO/CVG | 30 | 20000 | | 2180 | 1810 | 5000 | 90 | ☺ | | | 11,13 | 103 | Chroma 50 | |
| T12 Instant Start | | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 40 | 48.0 | 40127 | F48T12/CW/CVG | 24 | 9000 | | 2780 | 2560 | 4100 | 60 | | | | 11,13 | 103 | | |
| | | 40 | 48.0 | 41144 | F48T12/SPX35/CVG | 24 | 9000 | | 2950 | 2780 | 3500 | 82 | ☺ | | | 11,13 | 103 | | |
| | | 50 | 60.0 | 41147 | F60T12CW/CVG | 15 | 12000 | | 3490 | 3210 | 4100 | 60 | | | | 11,13 | 103 | | |
| | | 55 | 72.0 | 41153 | F72T12/SPX35/CVG | 15 | 12000 | | 4650 | 4370 | 3500 | 82 | ☺ | | | 11,13 | 103 | | |
| T12 Instant Start - Watt-Miser® Energy Saving Lamps | | | | | | | | | | | | | | | | | | | |
| 8' T12 Rapid Start Watt-Miser® Lamps (96") | | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 60 | 96.0 | 26038 | F96T12XLHL41WMCV | 15 | 12000 | | 5723 | 5315 | 4100 | 80 | ☺ | \$ | ↖ | 1,11,14 | 103 | | |
| T12 Preheat | | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 15 | 18.0 | 41114 | F15T12/CW/CVG | 24 | 9000 | | 735 | 660 | 4100 | 60 | | | | 11,13 | 103 | Preheat | |
| T12 High Output Lamps Recessed Double Contact | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 60 | 48.0 | 40129 | F48T12/CW/HO/CVG | 24 | 12000 | | 3930 | 3410 | 4100 | 60 | | | | 11,12,13 | 103 | | |
| | | 75 | 60.0 | 41148 | F60T12/CW/HO/CVG | 15 | 12000 | | 4990 | 4340 | 4100 | 60 | | | | 11,12,13 | 103 | | |
| | | 85 | 72.0 | 40811 | F72T12CW/HO/CVG | 15 | 12000 | | 6150 | 5350 | 4100 | 60 | | | | 11,12,13 | 103 | | |
| | | 85 | 72.0 | 46207 | F72T12SP35HO/CVG | 15 | 12000 | | 6450 | 5810 | 3500 | 73 | | | | 11,12,13 | 103 | | |
| | | 85 | 72.0 | 41152 | F72T12SPX30HOCVG | 15 | 12000 | | 6590 | 5930 | 3000 | 82 | ☺ | | | 11,12,13 | 103 | | |
| | | 85 | 72.0 | 41154 | F72T12SPX35HOCVG | 15 | 12000 | | 6590 | 5930 | 3500 | 82 | ☺ | | | 11,12,13 | 103 | | |
| | | 110 | 96.0 | 46430 | F96T12/DX/HO/CVG | 15 | 12000 | | 5917 | 5029 | 6500 | 90 | ☺ | | | 11,12,13 | 103 | Daylight Deluxe | |
| T12 High Output Lamps Recessed Double Contact - Watt-Miser® Energy Saving Lamps | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 95 | 96.0 | 26039 | F96T12HL41HOWMCV | 15 | 12000 | | 8580 | 7680 | 4100 | 77 | ☺ | \$ | ↖ | 1,11,12,13 | 103 | | |
| Germicidal covRguard® | | | | | | | | | | | | | | | | | | | |
| T8 | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 15 | 18.0 | 72761 | G15T8/CVG | 24 | 7500 | | | | | | | | | 9 | 106 | | |
| Cold Temperature Lamps | | | | | | | | | | | | | | | | | | | |
| T5 | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 54 | 45.2 | 81522 | F54T5/841/CT | 36 | 30000 | 36000 | 4500 | 4275 | 4100 | 85 | ☺ | | | 11,13,17 | 101 | Plastic Jacket | |
| T8 | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 58 | 60.0 | 16148 | F58T8/835/CT | 24 | 20000 | | 4680 | 4450 | 3500 | 85 | ☺ | | | 11,13,17 | 101 | Plastic Jacket | |
| | | 58 | 60.0 | 23752 | F58T8/841/CT | 24 | 20000 | | 4680 | 4450 | 4100 | 85 | ☺ | | | 11,13,17 | 101 | Plastic Jacket | |
| | | 70 | 72.0 | 16149 | F70T8/835/CT | 18 | 20000 | | 5670 | 5386 | 3500 | 85 | ☺ | | | 11,13,17 | 101 | Plastic Jacket | |
| | | 70 | 72.0 | 23754 | F70T8/841/CT | 18 | 20000 | | 5670 | 5386 | 4100 | 85 | ☺ | | | 11,13,17 | 101 | Plastic Jacket | |

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4. All footnotes, warning and caution notices found at the end of this section (page 4-26).

Fluorescent Lamps

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information | |
|--|--------------------------------|-------|---------------------|------------|------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|--|---|--|
| Cold Temperature Lamps (continued) | | | | | | | | | | | | | | | | | | | |
| High Output (800mA) Recessed Double Contact | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 85 | 72.0 | 46199 | F72T12/CW/HO-CT | 8 | 12000 | | 6150 | 5350 | 4100 | 60 | | | | 11,13,17 | 101 | Plastic Jacket | |
| | | 110 | 96.0 | 11918 | F96T12/CW/HO/CT | 15 | 12000 | | 8900 | 7740 | 4100 | 60 | | | | 11,13,17 | 101 | | |
| | | 110 | 96.0 | 11919 | F96T12/D/HO/CT | 15 | 12000 | | 7600 | 6610 | 6500 | 75 | | | | 11,13,17 | 101 | | |
| T10 Very High Output (1500mA) Recessed Double Contact | | | | | | | | | | | | | | | | | | | |
| T10 | Recessed Double Contact (R17d) | 110 | 48.0 | 10742 | F48T10/CW | 24 | 9000 | | 6200 | 10742 | 4100 | 60 | | | | 4 | 101 | | |
| | | 135 | 60.0 | 17135 | F60T10/SP30 | 24 | 6000 | | 8500 | | 3000 | 70 | | | | 4 | 101 | | |
| | | 135 | 60.0 | 39157 | F60T10/CW | 24 | 6000 | | 7000 | | 4100 | 60 | | | | 4 | 101 | | |
| | | 135 | 60.0 | 13002 | F60T10/CW 6PK | 6 | 6000 | | 7000 | | 4100 | 60 | | | | 4 | 101 | | |
| | | 135 | 60.0 | 46197 | F60T10/CW-CT | 12 | 6000 | | 6790 | | 4100 | 60 | | | | 4,13,17 | 101 | Plastic Jacket | |
| | | 160 | 72.0 | 13776 | F72T10/CW 15PK | 15 | 9000 | | 9700 | | 4100 | 60 | | | | 4 | 101 | | |
| | | 160 | 72.0 | 46198 | F72T10/CW-CT | 8 | 9000 | | 9400 | | 4100 | 60 | | | | 4,13,17 | 101 | Plastic Jacket | |
| T12 Very High Output (1500mA) Recessed Double Contact | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 110 | 48.0 | 34206 | F48T12/CW/1500/0 | 24 | 10000 | | 7000 | | 4100 | 60 | | | | 4 | 101 | | |
| | | 110 | 48.0 | 46195 | F48T12CW/VHO/CT | 12 | 10000 | | 6790 | | 4100 | 60 | | | | 4,15,17 | 101 | Plastic Jacket | |
| | | 170 | 72.0 | 13762 | F72T12CW/1500/0 | 15 | 10000 | | 10800 | | 4100 | 60 | | | | 4 | 101 | | |
| | | 170 | 72.0 | 46200 | F72T12CW/VHO/CT | 8 | 10000 | | 10470 | | 4100 | 60 | | | | 4,15,17 | 101 | Plastic Jacket | |
| | | 220 | 96.0 | 13788 | F96T12/CW/1500/0 | 15 | 10000 | | 14400 | | 4100 | 60 | | | | 4 | 101 | | |
| | | 220 | 96.0 | 46202 | F96T12CW/VHO-CT | 8 | 10000 | | 13960 | | 4100 | 60 | | | | 4,15,17 | 101 | | |
| Appliance Lamps | | | | | | | | | | | | | | | | | | | |
| T8 | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 18 | 22.0 | 10257 | F22T8/D/4 | 24 | 7500 | | 925 | 790 | 6500 | 75 | | | | | 101 | Daylight | |
| | | 18 | 24.0 | 17705 | F24T8/CW/4 6PK | 24 | 7500 | | 1150 | 1040 | 4100 | 60 | | | | | 101 | | |
| | | 19 | 26.0 | 10702 | F26T8/CW/4 | 24 | 7500 | | 1275 | 1085 | 4100 | 60 | | | | | 101 | | |
| | | 19 | 26.0 | 38199 | F26T8/CW/4 6PK | 24 | 7500 | | 1275 | 1085 | 4100 | 60 | | | | | 101 | | |
| | | 19 | 28.0 | 17704 | F28T8/CW/4 6PK | 24 | 7500 | | 1350 | 1145 | 4100 | 60 | | | | | 101 | | |
| | | 19 | 30.0 | 10349 | F30T8/CW/4 | 24 | 7500 | | 1375 | 1170 | 4100 | 60 | | | | | 101 | | |
| T12 | | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 21 | 30.0 | 10355 | F30T12/CW | 24 | 7500 | | 1350 | 1220 | 4100 | 60 | | | | | 101 | | |
| | | 25 | 28.0 | 10282 | F25T12CW/28 6PK | 24 | 7500 | | 1550 | 1390 | 4100 | 60 | | | | | 101 | | |
| | | 25 | 28.0 | 10286 | F25T12/D/28 | 24 | 7500 | | 1450 | 1310 | 6500 | 75 | | | | | 101 | Daylight | |
| | | 25 | 33.0 | 38201 | F25T12/CW/33 6PK | 24 | 7500 | | 1860 | 1675 | 4100 | 60 | | | | | 101 | | |
| | | 25 | 33.0 | 10299 | F25T12/D/33 | 24 | 7500 | | 1600 | 1440 | 6500 | 75 | | | | | 101 | Daylight | |
| | | 25 | 33.0 | 10293 | F25T12/WW/33 | 24 | 7500 | | 1910 | 1720 | 3000 | 52 | | | | | 101 | Warm White | |
| Blacklight/Blacklight Blue Lamps | | | | | | | | | | | | | | | | | | | |
| Blacklight | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 15 | 18.0 | 35884 | F15T8/BL 6PK | 24 | 7500 | | | | | | | | | 8 | 105 | Blacklight, UVA Source | |
| | | 17 | 24.0 | 72759 | F17T8/BLB/6PK | 24 | 7000 | | | | | | | | | 8 | 105 | Blacklight Blue, UVA Source, Integral Dark Blue Filter | |
| T12 | Medium Bi-Pin (G13) | 20 | 24.0 | 10244 | F20T12/BL 6PK | 24 | 9000 | | | | | | | | | 8 | 105 | Blacklight, UVA Source | |
| | | 40 | 22.5 | 40537 | F40BL/U/3 | 12 | 14000 | | | | | | | | | 8 | 105 | Blacklight, UVA Source, Mod-U-Line®, 3-5/8 Spacing Between Legs | |
| | | 40 | 48.0 | 10526 | F40BL 6PK | 24 | 20000 | | | | | | | | 8 | 105 | Blacklight, UVA Source | | |
| Blacklight Blue | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 4 | 6.0 | 10019 | F4T5/BLB | 24 | 5000 | | | | | | | | | 8 | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter | |
| | | 8 | 12.0 | 10077 | F8T5/BLB | 24 | 5000 | | | | | | | | | 8 | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter | |
| T8 | Medium Bi-Pin (G13) | 15 | 18.0 | 35885 | F15T8/BLB 6PK | 24 | 7500 | | | | | | | | 8 | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter | | |
| T12 | Medium Bi-Pin (G13) | 20 | 24.0 | 34747 | F20T12/BLB 6PK | 24 | 9000 | | | | | | | | 8 | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter | | |
| | | 40 | 48.0 | 10531 | F40BLB 6PK | 24 | 20000 | | | | | | | | 8 | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter | | |

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information | |
|---|--------------------------------|-------|---------------------|------------|-------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|---|---|-------------------|
| Colored Lamps | | | | | | | | | | | | | | | | | | | |
| T8 | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 48.0 | 94847 | F32T8/B/65ECOCVG2 | 36 | 20000 | | | | | | | | | | 103 | Sleeved Rosco Blue 65 | |
| | | 32 | 48.0 | 94849 | F32T8/G/89ECOCVG2 | 36 | 20000 | | | | | | | | | | 103 | Sleeved Rosco Green 89 | |
| | | 32 | 48.0 | 94850 | F32T8/R/24ECOCVG2 | 36 | 20000 | | | | | | | | | | 103 | Sleeved Rosco Red 24 | |
| T12 | | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 40 | 48.0 | 10514 | F40B 6PK | 24 | 20000 | | | | | | | | | | 101 | Phosphor Blue | |
| | | 40 | 48.0 | 10517 | F40G 6PK | 24 | 20000 | | | | | | | | | | 101 | Phosphor Green | |
| Preheat | | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 20 | 24.0 | 10231 | F20T12/B 6PK | 24 | 9000 | | | | | | | | | | 101 | Phosphor Blue | |
| | | 20 | 24.0 | 10233 | F20T12/G 6PK | 24 | 9000 | | | | | | | | | | 101 | Phosphor Green | |
| Gold Lamps | | | | | | | | | | | | | | | | | | | |
| T5 | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 28 | 45.2 | 25768 | F28T5/GO/CVG | 40 | 20000 | | 1986 | 1946 | | | | | | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions | |
| T8 | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 17 | 24.0 | 25779 | F17T8/GO/ECOCVG | 24 | 15000 | | 970 | 950 | | | | | | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions | |
| | | 25 | 36.0 | 25783 | F25T8/GO/ECOCVG | 24 | 15000 | | 1590 | 1558 | | | | | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions | | |
| | | 32 | 48.0 | 25784 | F32T8/GO/ECOCVG | 36 | 15000 | | 2280 | 2235 | | | | | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions | | |
| T12 | | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 40 | 48.0 | 25850 | F40/GO/CVG | 30 | 20000 | | 2510 | 2460 | | | | | | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions | |
| T12 | Single Pin (Fa8) | 55 | 72.0 | 25854 | F72T12/GO/CVG | 15 | 12000 | | 4150 | 4070 | | | | | | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions | |
| | | 55 | 96.0 | 25852 | F96T12/GO/CVG | 15 | 12000 | | 5640 | 5530 | | | | | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions | | |
| T12 | Recessed Double Contact (R17d) | 110 | 96.0 | 25853 | F96T12/GO/HO/CVG | 15 | 12000 | | 8010 | 7850 | | | | | | | 103 | Gold Sleeved, Blocks UV and Deep Blue Emissions | |
| Germicidal Lamps | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 4 | 6.0 | 15872 | G4T5 | 24 | 6000 | | | | | | | | | | 16 | 106 | Clear, UVC Source |
| | | 6 | 8.0 | 15873 | G6T5 | 24 | 6000 | | | | | | | | | | 16 | 106 | Clear, UVC Source |
| | | 8 | 12.0 | 11077 | G8T5 | 24 | 7500 | | | | | | | | | | 16 | 106 | Clear, UVC Source |
| | | 11 | 9.0 | 29495 | G11T5 | 24 | 8000 | | | | | | | | | | 16 | 106 | Clear, UVC Source |
| T5 | Single Pin (Fa8) | 39 | 36.0 | 15874 | G36T5 | 24 | 9000 | | | | | | | | | | 16 | 106 | Clear, UVC Source |
| | | 65 | 64.0 | 15864 | G64T5 | 24 | 9000 | | | | | | | | | 16 | 106 | Clear, UVC Source | |
| T5 | 4-Pin (G10q) | 16 | 13.0 | 29502 | G16T5/4P/SE | 24 | 8000 | | | | | | | | | 9,16 | 106 | Clear, UVC Source | |
| | | 39 | 34.0 | 29503 | G36T5/4P/SE | 24 | 9000 | | | | | | | | 9,16 | 106 | Clear, UVC Source | | |
| | | 65 | 64.0 | 29504 | G64T5/4P/SE | 24 | 9000 | | | | | | | | 9,16 | 106 | Clear, UVC Source | | |
| T8 | Medium Bi-Pin (G13) | 9.5 | 14.0 | 29498 | G10T8 | 24 | 6000 | | | | | | | | | 16 | 106 | Clear, UVC Source | |
| | | 15 | 18.0 | 11078 | G15T8 | 24 | 7500 | | | | | | | | 16 | 106 | Clear, UVC Source | | |
| | | 25 | 18.0 | 11082 | G25T8 | 24 | 7500 | | | | | | | | 16 | 106 | Clear, UVC Source | | |
| | | 30 | 36.0 | 11080 | G30T8 | 24 | 7500 | | | | | | | | 16 | 106 | Clear, UVC Source | | |
| | | 36 | 48.0 | 29499 | G36T8 | 24 | 8000 | | | | | | | | 16 | 106 | Clear, UVC Source | | |
| T10 | Medium Bi-Pin (G13) | 55 | 36.0 | 15875 | G55T8/HO | 24 | 8000 | | | | | | | | | 16 | 106 | Clear, UVC Source | |
| | | 20 | 24.0 | 15876 | G20T10 | 24 | 8000 | | | | | | | | 9,16 | 106 | Clear, UVC Source | | |
| Plant and Aquarium/Terrarium Lamps | | | | | | | | | | | | | | | | | | | |
| T8 | | | | | | | | | | | | | | | | | | | |
| 18" T8 Lamps | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 15 | 18.0 | 22910 | F15T8/AR/FS 6PK | 24 | 7500 | | 675 | | 9325 | 64 | | | | | 104 | Aquarium Lamp Freshwater & Saltwater | |
| | | 15 | 18.0 | 49892 | F15T8/PL/AQ 6PK | 24 | 7500 | | 510 | | 3100 | 90 | | | | | 104 | Plant & Aquarium Wide Spectrum | |

Fluorescent Lamps

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information |
|---|--------------------------------|-------|---------------------|------------|-----------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|-----------------------------------|
| Plant and Aquarium/Terrarium Lamps (continued) | | | | | | | | | | | | | | | | | | |
| T12 | | | | | | | | | | | | | | | | | | |
| 24" T12 Lamps | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 20 | 24.0 | 49891 | F20T12/PL/AQ/ECO | 24 | 9000 | | 750 | | 3100 | 90 | ☺ | | | | 104 | Plant & Aquarium Wide Spectrum |
| 48" T12 Lamps | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 40 | 48.0 | 49893 | F40PL/AQ/ECO | 24 | 20000 | | 1900 | | 3100 | 90 | ☺ | | | | 104 | Plant & Aquarium Wide Spectrum |
| Export Outside U.S. and Canada Only | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 40 | 22.5 | 14496 | F40CW/U/6/EX | 12 | 14000 | | 2800 | 2460 | 4100 | 60 | | | | | 102 | 6" Spacing Between Legs |
| | | 40 | 22.5 | 14498 | F40D/U/6/EX | 12 | 14000 | | 2350 | 2070 | 6500 | 75 | | | | | 102 | Daylight, 6" Spacing Between Legs |
| | | 40 | 48.0 | 14656 | F40CW/EX 30PK | 30 | 20000 | | 3050 | 2680 | 4100 | 60 | | | | | 101 | |
| | | 40 | 48.0 | 14488 | F40D/EX | 30 | 20000 | | 2550 | 2240 | 6500 | 75 | | | | | 101 | Daylight |
| T12 | Single Pin (Fa8) | 75 | 96.0 | 12541 | F96T12CW/EX 15PK | 15 | 12000 | | 6150 | 5660 | 4100 | 60 | | | | | 101 | Daylight |
| | | 75 | 96.0 | 12543 | F96T12D/EX 15PK | 15 | 12000 | | 5250 | 4330 | 6500 | 75 | | | | | 101 | Daylight |
| T12 | Recessed Double Contact (R17d) | 110 | 96.0 | 12540 | F96T12CW/HO/EX | 15 | 12000 | | 8900 | 7740 | 4100 | 60 | | | | | 101 | |
| | | 110 | 96.0 | 12542 | F96T12D/HO/EX15 | 15 | 12000 | | 7600 | 6610 | 6500 | 75 | | | | | 101 | Daylight |
| Consumer Products | | | | | | | | | | | | | | | | | | |
| T8 | | | | | | | | | | | | | | | | | | |
| 4' T8 | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 32 | 48.0 | 66834 | F32T8/KBP/2PK-24 | 24 | 20000 | | 2900 | 2600 | 3000 | 80 | ☺ | | | | 101 | |
| | | 32 | 48.0 | 66829 | F32T8/KBP/ECO/2P | 6 | 20000 | | 2900 | 2600 | 3000 | 80 | ☺ | | | | 101 | |
| | | 32 | 48.0 | 66837 | F32T8/WS/ECO/2P | 24 | 20000 | | 2900 | 2600 | 3500 | 80 | ☺ | | | | 101 | |
| | | 32 | 48.0 | 66826 | F32T8/GB/ECO/UPC | 36 | 20000 | | 2900 | 2600 | 4100 | 80 | ☺ | | | | 101 | |
| | | 32 | 48.0 | 66833 | F32T8/GB/2PK-24 | 24 | 20000 | | 2900 | 2600 | 4100 | 80 | ☺ | | | | 101 | |
| | | 32 | 48.0 | 66828 | F32T8/GB/ECO/2P | 6 | 20000 | | 2900 | 2600 | 4100 | 80 | ☺ | | | | 101 | |
| | | 32 | 48.0 | 66836 | F32T8/UT/2P-24 | 24 | 15000 | | 1800 | 1600 | 4100 | 87 | ☺ | | | | 101 | |
| | | 32 | 48.0 | 66827 | F32T8/UT/ECO/UPC | 36 | 15000 | | 1800 | 1600 | 4100 | 87 | ☺ | | | | 101 | |
| | | 32 | 48.0 | 66831 | F32T8/UT/ECO/2P | 6 | 15000 | | 1800 | 1600 | 4100 | 87 | ☺ | | | | 101 | |
| | | 32 | 48.0 | 66832 | F32T8/CL/2PK-24 | 24 | 20000 | | 2900 | 2600 | 5000 | 80 | ☺ | | | | 101 | |
| | | 32 | 48.0 | 66835 | F32T8/AS/ECO/2P | 24 | 20000 | | 2900 | 2600 | 6500 | 80 | ☺ | | | | 101 | |
| | | 32 | 48.0 | 66830 | F32T8/AS/2PK-24 | 6 | 20000 | | 2900 | 2600 | 6500 | 80 | ☺ | | | | 101 | |
| T12 | | | | | | | | | | | | | | | | | | |
| 4' F40 Ecolux® Standard | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 40 | 48.0 | 25399 | F40C50/ECO/UPC | 30 | 20000 | | 2250 | 1870 | 5000 | 90 | ☺ | | | | 101 | Chroma 50 |
| | | 40 | 48.0 | 12224 | F40/SUN/ECO/6PK | 24 | 20000 | | 2250 | 1870 | 5000 | 90 | | | | | 101 | Sunlight |
| | | 40 | 48.0 | 66655 | F40/KBP/ECO/2P | 9 | 20000 | | 2900 | 2600 | 3000 | 87 | ☺ | | | | 101 | |
| | | 40 | 48.0 | 66652 | F40/GB/ECO/2P | 9 | 20000 | | 2900 | 2600 | 4100 | 87 | ☺ | | | | 101 | |
| | | 40 | 48.0 | 66651 | F40/UT/ECO/2P | 9 | 15000 | | 2100 | 1900 | 4100 | 87 | ☺ | | | | 101 | |
| | | 40 | 48.0 | 66653 | F40/CL/ECO/2P | 9 | 20000 | | 2900 | 2600 | 5000 | 87 | ☺ | | | | 101 | |
| | | 40 | 48.0 | 66654 | F40/AS/ECO/2P | 9 | 20000 | | 2900 | 2600 | 6500 | 87 | ☺ | | | | 101 | |
| | | 40 | 48.0 | 66650 | F40UT/ECO/UPC | 30 | 15000 | | 2100 | 1900 | 4100 | 87 | ☺ | | | | 101 | |
| Mod-U-Line® Watt-Miser® U-Tubes | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 35 | 23.0 | 66851 | F35/CX41/U6WMUPC | 12 | 14000 | | 2300 | 2185 | 4100 | 87 | ☺ | \$ | → | 1 | 102 | |
| T12 Instant Start | | | | | | | | | | | | | | | | | | |
| 4' T12 | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 40 | 48.0 | 20461 | F48T12CW/UPC 6PK | 24 | 9000 | | 2875 | 2650 | 4100 | 60 | | | | | 101 | |
| 8' T12 Watt-Miser® Energy Saving Lamps | | | | | | | | | | | | | | | | | | |
| T12 | Single Pin (Fa8) | 60 | 96.0 | 66856 | F96T12/XL/HL35/WM/UPC | 15 | 12000 | | 5900 | 5480 | 3500 | 80 | ☺ | \$ | → | 1 | 101 | |
| | | 60 | 96.0 | 66852 | F96T12/XL/HL41/WM/UPC | 15 | 12000 | | 5900 | 5480 | 4100 | 80 | ☺ | \$ | → | 1 | 101 | |
| T12 Rapid Start | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 30 | 36.0 | 77119 | F30T12/RS/KB/ECO | 24 | 18000 | | 2350 | 2120 | 3000 | 70 | | | | | 104 | Kitchen & Bath |

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information | | |
|--|--------------------------------|-------------------|---------------------|------------|-------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|--|-------------------------|--------|
| Consumer Products (continued) | | | | | | | | | | | | | | | | | | | | |
| T12 High Output Rapid Start Recessed Double Contact | | | | | | | | | | | | | | | | | | | | |
| T12 | Recessed Double Contact (R17d) | 60 | 48.0 | 27313 | F48T12/CW/HO/UPC | 24 | 12000 | | 4050 | 3520 | 4100 | 60 | | | | | 101 | | | |
| Preheat | | | | | | | | | | | | | | | | | | | | |
| T5 | | | | | | | | | | | | | | | | | | | | |
| T5 | Miniature Bi-Pin (G5) | 4 | 6.0 | 15983 | F4T5/CW/CB | 10 | 5000 | | 135 | 100 | 4100 | 60 | | | | | 101 | Preheat | | |
| | | 6 | 9.0 | 15986 | F6T5/CW/CB | 10 | 5000 | | 295 | 235 | 4100 | 60 | | | | | 101 | Preheat | | |
| | | 8 | 12.0 | 67419 | F8T5/KB/RVL/CB | 10 | 5000 | | 400 | 320 | 2600 | 75 | | | | | | | Reveal | |
| | | 8 | 12.0 | 15987 | F8T5/CW/CB | 10 | 5000 | | 400 | 320 | 4100 | 60 | | | | | | 101 | Preheat | |
| | | 8 | 12.0 | 25425 | F8T5/WW/CB | 5 | 5000 | | 410 | 330 | 3000 | 52 | | | | | | 101 | Preheat, Warm White | |
| | | 13 | 21.0 | 67420 | F13T5/KB/RVL/CB | 5 | 5000 | | 880 | 640 | 2600 | 75 | | | | | | | | Reveal |
| | | 13 | 21.0 | 49333 | F13T5/CW/CB | 5 | 5000 | | 850 | 705 | 4100 | 60 | | | | | | 101 | | |
| | | 13 | 21.0 | 25426 | F13T5/WW/CB | 5 | 5000 | | 870 | 720 | 3000 | 52 | | | | | | 101 | Preheat, Warm White | |
| T8 | | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 18 | 15.0 | 79043 | F15T8/KB/RVL 6PK | 24 | 7500 | | 825 | 743 | 2600 | 60 | | | | | 104 | Reveal | | |
| | | 15 | 18.0 | 13968 | F15T8/SUN 6PK | 24 | 7500 | | 620 | 525 | 5000 | 90 | | | | | 101 | Preheat, Sunlight | | |
| | | 15 | 18.0 | 21326 | F15T8/KB 6PK | 24 | 7500 | | 940 | 850 | 3000 | 70 | | | | | 104 | Preheat, Kitchen & Bath | | |
| | | 15 | 18.0 | 10143 | F15T8/CW 6PK | 24 | 7500 | | 825 | 725 | 4100 | 60 | | | | | 101 | Preheat | | |
| | | 30 | 36.0 | 22747 | F30T8/KB 6PK | 24 | 7500 | | 2125 | 1910 | 3000 | 70 | | | | | 104 | Preheat, Kitchen & Bath | | |
| T12 | | | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 14 | 15.0 | 10117 | F14T12/CW 6PK | 24 | | | 650 | 550 | 4100 | 60 | | | | | 101 | Preheat | | |
| | | 14 | 15.0 | 22979 | F14T12/KB 6PK | 24 | 9000 | | 700 | 650 | 3000 | 70 | | | | | 104 | Preheat | | |
| | | 15 | 18.0 | 10183 | F15T12/CW 6PK | 24 | 9000 | | 760 | 685 | 4100 | 60 | | | | | 104 | Preheat, Kitchen & Bath | | |
| | | 15 | 18.0 | 22745 | F15T12/KB 6PK | 24 | 9000 | | 785 | 730 | 3000 | 70 | | | | | 104 | Preheat | | |
| | | 24 | 20.0 | 79042 | F20T12/KB/ECO/RVL | 24 | 9000 | | 1125 | 1012 | 2600 | 60 | | | | | | 104 | Reveal | |
| | | 20 | 24.0 | 80046 | F20T12/CW/ECO 6PK | 24 | 9000 | | 1200 | 1150 | 4100 | 60 | | | | | | 101 | Preheat | |
| | | 20 | 24.0 | 25575 | F20T12/DJ/ECO/UPC | 24 | 9000 | | 1025 | 945 | 6500 | 75 | | | | | | 101 | Preheat, Daylight | |
| | | 20 | 24.0 | 21325 | F20T12/KB/ECO | 24 | 9000 | | 1275 | 1200 | 3000 | 70 | | | | | | 104 | Preheat, Kitchen & Bath | |
| | | 20 | 24.0 | 14419 | F20T12/SUN/ECO | 24 | 9000 | | 875 | 790 | 5000 | 90 | | | | | | 101 | Preheat, Sunlight | |
| | | 20 | 24.0 | 25577 | F20T12/WW/ECO/UPC | 24 | 9000 | | 1250 | 1150 | 3000 | 52 | | | | | | 101 | Preheat, Warm White | |
| | | 20 | 24.0 | 10231 | F20T12/B 6PK | 24 | 9000 | | 450 | 330 | | | | | | | | 101 | Preheat | |
| | | 20 | 24.0 | 10233 | F20T12/G 6PK | 24 | 9000 | | 1575 | 957 | | | | | | | | 101 | Preheat | |
| | | Blacklight | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 15 | 24.0 | 35884 | F15T8/BL 6PK | 24 | 7500 | | | | | | | | | 8 | 105 | Blacklight, UVA Source | | |
| T12 | Medium Bi-Pin (G13) | 20 | 24.0 | 10244 | F20T12/BL 6PK | 24 | 9000 | | | | | | | | | 8 | 105 | Blacklight, UVA Source | | |
| | | 40 | 40.0 | 10526 | F40BL 6PK | 24 | 20000 | | | | | | | | | 8 | 105 | Blacklight, UVA Source | | |
| Blacklight Blue | | | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 15 | 18.0 | 35885 | F15T8/BLB 6PK | 24 | 7500 | | | | | | | | | | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter | | |
| T12 | Medium Bi-Pin (G13) | 20 | 24.0 | 34747 | F20T12/BLB 6PK | 24 | 9000 | | | | | | | | | | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter | | |
| T12 | Medium Bi-Pin (G13) | 40 | 40.0 | 10531 | F40BLB 6PK | 24 | 20000 | | | | | | | | | | 101 | Blacklight Blue, UVA Source, Integral Dark Blue Filter | | |
| T9 Circline® | | | | | | | | | | | | | | | | | | | | |
| T9 | 4-Pin (G10q) | 20 | 6.5 | 42732 | FC6T9/CW | 12 | 12000 | | 800 | 560 | 4100 | 60 | | | | | 101 | | | |
| | | 22 | 8.25 | 33774 | FC8T9/CW | 12 | 12000 | | 1100 | 825 | 4100 | 60 | | | | | 101 | | | |
| | | 22 | 8.25 | 11026 | FC8T9/D | 12 | 12000 | | 925 | 690 | 6500 | 75 | | | | | 101 | Daylight | | |
| | | 22 | 8.25 | 11084 | FC8T9/KB | 6 | 12000 | | 1400 | 1120 | 3000 | 82 | | | | | 104 | Kitchen & Bath | | |
| | | 32 | 12.0 | 33890 | FC12T9/CW | 12 | 12000 | | 1950 | 1460 | 4100 | 60 | | | | | 101 | | | |
| | | 32 | 12.0 | 11039 | FC12T9/D | 12 | 12000 | | 1675 | 1260 | 6500 | 75 | | | | | 101 | Daylight | | |
| | | 32 | 12.0 | 11085 | FC12T9/KB | 6 | 12000 | | 2400 | 1920 | 3000 | 82 | | | | | 104 | Kitchen & Bath | | |
| | | 40 | 16.0 | 33893 | FC16T9/CW | 12 | 12000 | | 2700 | 2030 | 4100 | 60 | | | | | 101 | | | |
| | | 40 | 16.0 | 11052 | FC16T9/D | 12 | 12000 | | 2250 | 1690 | 6500 | 75 | | | | | 101 | Daylight | | |

Fluorescent Lamps

| Bulb Shape | Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Rated Life (3 hr/ start) | Rated Life (12 hr/ start) | Initial Lumens | Mean Lumens | Color Temp K | CRI | High Color Rendering | Energy Savings | Reduced Wattage | Footnotes | Warning and Caution Notices | Additional Information |
|---------------------------------------|---------------------|-------|---------------------|------------|-------------------|----------|--------------------------|---------------------------|----------------|-------------|--------------|-----|----------------------|----------------|-----------------|-----------|-----------------------------|---------------------------------------|
| covGuard® Shatter Resistant | | | | | | | | | | | | | | | | | | |
| T8 Preheat | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 15 | 18.0 | 46627 | F15T8/KB/CVG/UPC | 24 | 7500 | | 910 | 825 | 3000 | 70 | | | | 11,13 | 103 | Blocks UV |
| T12 Rapid Start Watt-Miser® | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 34 | 48.0 | 26044 | F34CX41WMECOCCVG | 30 | 20000 | | 2400 | 2130 | 4100 | 87 | ☞ | \$ | * | 1,11,13 | 101 | Blocks UV |
| T12 Preheat | | | | | | | | | | | | | | | | | | |
| T12 | Medium Bi-Pin (G13) | 20 | 24.0 | 80984 | F20T12CWECOCVGUPC | 24 | 9000 | | 1160 | 1110 | 4100 | 60 | | | | 11,13 | 103 | Blocks UV |
| Plant and Aquarium / Terrarium | | | | | | | | | | | | | | | | | | |
| T8 | Medium Bi-Pin (G13) | 15 | | 22910 | F15T8/AR/FS 6PK | 24 | 7500 | | 675 | | 9325 | 64 | | | | | 104 | Aquarium Lamp Fresh-water & Saltwater |
| | | 15 | 18.0 | 49892 | F15T8/PL/AQ 6PK | 24 | 7500 | | 510 | | 3100 | 90 | | | | | 104 | Plant & Aquarium Wide Spectrum |
| T12 | Medium Bi-Pin (G13) | 20 | 24.0 | 22908 | F20T12/AR/FR 6PK | 24 | 9000 | | 600 | | 4000 | 92 | ☞ | | | | 104 | Aquarium Lamp Freshwater |
| | | 20 | 24.0 | 49891 | F20T12/PL/AQ/ECO | 24 | 9000 | | 750 | | 3100 | 90 | ☞ | | | | 104 | Plant & Aquarium Wide Spectrum |
| | | 40 | 48.0 | 49893 | F40PL/AQ/ECO | 24 | 20000 | | 1900 | | 3100 | 90 | ☞ | | | | 104 | Plant & Aquarium Wide Spectrum |

Operating Notes

General Operation

GE fluorescent lamps should be used only with auxiliary equipment designed to produce proper characteristics. Specifications for auxiliary equipment are covered by ANSI. Specifications for auxiliary equipment not included in ANSI Standards are available from GE Lighting.

Factors Affecting Lamp Performance

Ballasts

The three basic types of ballasts for fluorescent lamps are Preheat (PH), Instant Start (IS), and Rapid Start (RS). In general, lamps identified as preheat, rapid start or instant start should be used only on the corresponding ballast type. Electronic ballasts are presently available in both instant start and rapid start designs. Ballasts that operate with output currents below recommended levels, either by design or poor performance, will reduce fluorescent lamp life.

Application – Choosing the appropriate ballast for an application can have an impact on lamp life. For example, T8 lamps with electronic Instant Start ballasts should not be used in applications with electronic controls (such as occupancy sensors). The frequent switching will significantly reduce lamp life. Use only programmed rapid start ballasts in these situations.

Operating Characteristics – Fluorescent lamp life is strongly affected by the ballast. ANSI has set standards for fluorescent ballasts that will ensure proper operation of fluorescent lamps. Ballast characteristics that have a significant effect on lamp life are Current Crest Factor, Starting Time, Cathode Voltage and Open Circuit Voltage.

Ballast Factor – This is the percentage of a lamp's rated lumen output that can be expected when operated on a specific, commercially available ballast under laboratory conditions. For example, a ballast having a ballast factor of 0.93 will result in the lamp emitting 93% of its rated lumen output.

High Frequency – All fluorescent lamps operate more efficiently when driven at frequencies greater than 15 kHz. Four-foot fluorescent lamps operate approximately 10% more efficiently, while eight-foot lamps improve efficiency by about 5%. This efficiency improvement is one reason for the popularity of electronic ballasts.

Temperature

Light output and watts of a fluorescent lamp are affected by the ambient temperature, and by drafts. Most fluorescent lamps reach their maximum light output at room temperatures or at "luminaire temperatures." All-Weather fluorescent lamps are designed with jackets that improve performance in low-temperature environments.

Luminaire

The design of the lighting fixture (luminaire) affects the ambient temperature in which the fluorescent lamps will be operating. A fixture that operates too cool or warm will result in lower light output from the lamps and reduce illumination levels.

Starting

The life of a fluorescent lamp is affected by the number of times the lamp is started. Starting results in shorter lamp life, while continuous operation will provide the longest lamp life. All fluorescent lamps, except where noted, have life ratings based on three hours per start.

General Information

Lumens

Nominal Initial Lumens refer to the nominal light output of the lamp after 100 hours of operation at 25° C. **Nominal Mean Lumens** refer to the nominal light output of the lamp at 40% of its rated life. Some values are based on engineering calculations derived from extrapolation of initial measured lumens.

A self-ballasted lamp is measured using its integral ballast. Lamps without an integral ballast are measured using reference ballasts.

Lumens produced by lamps operated on commercial ballasts may not be equivalent to reference ballast ratings. For lighting design calculations, refer to the ballast manufacturer's published data for the appropriate "Ballast Factor."

Nominal Watts

Wattage is classified in accordance with American National Standards Institute standards for lamp classification purposes and may not be the same as the wattage run on a reference ballast. The nominal wattage as defined by ANSI may vary from the listed wattage. Watts consumed by lamps operated on commercial ballasts may not be equivalent to reference ballast ratings.

Rated Life

The rated life (hours) is the approximate median life when lamps are operated for three hours per start under laboratory conditions using an ANSI reference ballast or GE Lighting specifications where no industry standards exist. Some lamps are rated at 12 hours per start where noted.

Performance Notes:

T8 Lamps:

- Rated life for 2 ft through 4 ft. Starcoat® Ecolux® Medium Bi-Pin T8 Lamps is Rated life on programmed rapid start circuits.
- Rated life for the F40T8 is rated life on rapid start circuits. Rated life for these linear lamps on instant start electronic circuits is reduced by 25%.

T12 Lamps:

- Life of 4' T12 lamps on single-lamp, rapid start ballasts may be reduced.

Color Temperature/Chromaticity

Approximate color temperature of fluorescent is measured using industry standard methods and is based on a nominal 40-watt source. Fluorescent sources operating at different lamp currents will have slightly shifted color appearances when compared to the corresponding 40-watt sources.

Scotopic/Photopic Ratio

This measurement accounts for the fact that of the two light sensors in the retina, rods are more sensitive to blue light (Scotopic Vision) and cones to yellow light (Photopic Vision). The Scotopic/Photopic (S/P) Ratio is an attempt to capture the relative strengths of these two responses. S/P is calculated as the ratio of scotopic lumens to photopic lumens, for the light source, on an ANSI reference ballast. Cooler sources (higher color temperature lamps) tend to have higher values of the S/P Ratio compared to warm sources.

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

Stage and Studio

Miniature, Sealed Beem and Automotive

Projection

Fluorescent Lamps

Scotopic/Photopic (S/P) Ratio:

This measurement accounts for the fact that of the two light sensors in the retina, rods are more sensitive to blue light (Scotopic vision) and cones to yellow light (Photopic vision). The Scotopic/Photopic (S/P) Ratio is an attempt to capture the relative strengths of these two responses. Cooler sources (higher color temperature lamps) tend to have higher values of the S/P Ratio compared to warm sources.

| T5 | S/P Ratio |
|-------|-----------|
| 830 | 1.3 |
| 835 | 1.5 |
| 841 | 1.7 |
| 850 | 1.9 |
| 865 | 2.2 |
| F28T8 | S/P Ratio |
| SP30 | 1.3 |
| SP35 | 1.5 |
| SP41 | 1.8 |
| SP50 | 2.0 |

| F17 and F25T8 | S/P Ratio |
|---------------|-----------|
| SP30 | 1.3 |
| SP35 | 1.4 |
| SP41 | 1.6 |
| F17 and F25T8 | S/P Ratio |
| SPX30 | 1.3 |
| SPX35 | 1.5 |
| SPX41 | 1.8 |
| SPX50 | 2.0 |
| SPX65 | 2.3 |

| F32 and F32T8/WM | S/P Ratio |
|--------------------|-----------|
| SP30 | 1.3 |
| SP35 | 1.4 |
| SP41 | 1.6 |
| SP50 | 1.9 |
| SP65 | 2.1 |
| F32T8 and F32T8/HL | S/P Ratio |
| SPX30 | 1.3 |
| SPX35 | 1.5 |
| SPX41 | 1.8 |
| SPX50 | 2.0 |
| SPX65 | 2.3 |

Footnotes

- 1 Watt-Miser®, Watt-Miser® Plus, F28T8, F32T8/25W and Energy Efficient (EE) lamps are intended for use where ambient temperatures are 60°F (16°C) or higher and where the lamp surface is protected from strong air drafts. Failure to protect the lamp surface may result in reduced life, poor starting or erratic operation, such as flickering or spiraling. These lamps are not recommended for use with dimming systems. All T12 Watt-Miser® lamps are intended for use on two-lamp, indoor, lead, high power factor ballasts and are not recommended for use with dimming or reduced current systems. The use of T12 Watt-Miser® lamps on single lamp ballasts may shorten lamp life. T12 Rapid Start Watt-Miser® lamps are intended for use only with Rapid Start Ballasts. F34 Rapid Start Watt-Miser® lamps on high frequency electronic systems may display erratic starting before end of life. T8 Watt-Miser® lamps and F28UMX lamps are intended for use only with instant start ballasts. They are, however, also approved for use on GE UltraStart® programmed rapid start ballasts.
- 3 F40T17/CW/IS lamps are for use only in fixtures equipped with instant start ballasts.
- 4 Because Power Groove® and Very High Output lamps are most used in commercial applications, the life rating is based on 12 hrs. per start.
- 6 Bare "Cold Temperature" lamps (as indicated by /CT) and "All Temperature" lamps are designed for use where ambient temperatures drop below 60°F (16°C).
- 7 Performance data based on engineering estimates.
- 8 **CAUTION:** Risk Group 1 (Low Risk): UV emitted from this lamp. Skin or eye irritation could result. Minimize exposure.
- 9 **WARNING:** Risk Group 3 (High Risk): UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result.
- 10 Shoplites are not recommended to be used on F40 full light output ballasts. Life will be reduced by approximately 50%.
- 11 Lumen rating based on approximate 3% reduction in light output with covRguard® sleeving.
- 12 Do not use covRguard® HO lamps in watertight or airtight fixtures.
- 13 Blocks 100% of UV-B and UV-C. Blocks from 75 to 99% of UV-A, depending on lamp type.
- 14 Life rating is based on 12 hrs. per start.
- 15 Lumen rating based on approximate 3% reduction in light output with jacket.
- 16 Life rating is based on UV maintenance curve and is measured at 80% of initial (100hr) UVC output.
- 17 Jacketed "Cold Temperature" lamps (as indicated by -CT) are designed for use where ambient temperatures do not rise above 32°F (0°C).
- 18 T8 lamps run on Instant Start ballasts should not be used in conjunction with electronic controls such as occupancy sensors. The frequent switching will significantly impact lamp life and void any warranties. Programmed Rapid Start ballasts such as GE's UltraStart® ballast should be used in these situations.
- 19 T5 Starcoat® Ecolux® lamp initial and mean lumen ratings are taken at 95°F (35°C)
- 20 Rated life is given for programmed start ballasts. Life ratings are based on engineering data with lamps cycled every 3 or 12 operating hours. Lamp life is approximately 25% shorter on instant start ballasts as compared to programmed start ballasts.
- 21 Rated life is given for programmed start ballasts. Life ratings are based on engineering data with lamps cycled every 3 or 12 operating hours. See chart on page 4-4 for more details.

Warning and Caution Notices

101

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

102

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

⚠ CAUTION

Improper handling may cause breakage

- Do not carry lamp by bracket

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

103

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

104

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Avoid direct water/liquid contact

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

105

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

⚠ CAUTION

Lamp emits UV radiation which may cause eye/skin irritation. RG-1

- Minimize exposure

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

106

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

Lamp emits UV radiation which may cause eye/skin injury. RG-3

- Avoid exposure of eyes and skin to unshielded lamp

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

107

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not open – there are no serviceable parts inside
- Do not drill or cut into plastic parts
- Avoid direct water/liquid contact
- Fully insert plug
- Use indoors only

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Lamp is not replaceable. Do not attempt to remove lamp from fixture
- Use in permanent installation only – not for portable use

Unit will fail if not installed properly

- Follow installation instructions

108

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Avoid direct water/liquid contact

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
FluorescentLED Lamps,
Tubes and Modules

Stage and Studio

Miniature, Sealed
Beam and Automotive

Projection

Compact Fluorescent Lamps

| | | | |
|--|------|---|------|
| Bulb Identification | 5-2 | Specialty | |
| Lamp Locator | 5-2 | Colored Spiral® | 5-14 |
| Base Identification | 5-4 | Film and TV Lighting HLBX 4-Pin | 5-14 |
| Introduction | 5-4 | Footnotes | 5-15 |
| Product Information | 5-5 | Caution Notices | 5-15 |
| Section Headings | 5-6 | Cross-Reference | 5-17 |
| Plug-in Lamps | | GE Enhanced Plug-in Product Comparison | 5-18 |
| 2-Pin Low Wattage Biax® | 5-7 | | |
| 4-Pin High Lumen Biax® | 5-7 | | |
| 2-Pin Double Biax® | 5-8 | | |
| 4-Pin Double Biax® | 5-8 | | |
| 4-Pin Triple Biax® | 5-8 | | |
| 4-Pin High Output Biax® | 5-9 | | |
| 4-Pin 2D® | 5-9 | | |
| Self-Ballasted Lamps | | | |
| Bright From The Start® A Shape | 5-10 | | |
| Bright From The Start® Decorative Globes | 5-10 | | |
| Reveal® Globes | 5-10 | | |
| Reveal® Reflectors | 5-10 | | |
| Reveal® Spiral® 3-Way | 5-10 | | |
| Reveal® Spiral® T3 | 5-10 | | |
| Reveal® Bright From The Start® A Shape | 5-10 | | |
| Spiral® T2 | 5-11 | | |
| Spiral® T3 | 5-11 | | |
| Spiral® T3 Dimming | 5-12 | | |
| Spiral® T4 and T5 Hi Lumen | 5-12 | | |
| Spiral® 3-Way | 5-12 | | |
| Spiral® GU 24 | 5-12 | | |
| Reflectors/Indoor PAR | 5-12 | | |
| Outdoor | 5-13 | | |
| Decorative Ceiling Fan Medium Base | 5-13 | | |
| Decorative Ceiling Fan Candelabra Base | 5-13 | | |
| Decorative A Shapes | 5-13 | | |
| Decorative Bullet | 5-13 | | |
| Decorative Candle Candelabra Base | 5-13 | | |
| Decorative Candle Medium Base | 5-13 | | |
| Decorative Globes | 5-14 | | |

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

Compact Fluorescent Lamps

Bulb Identification



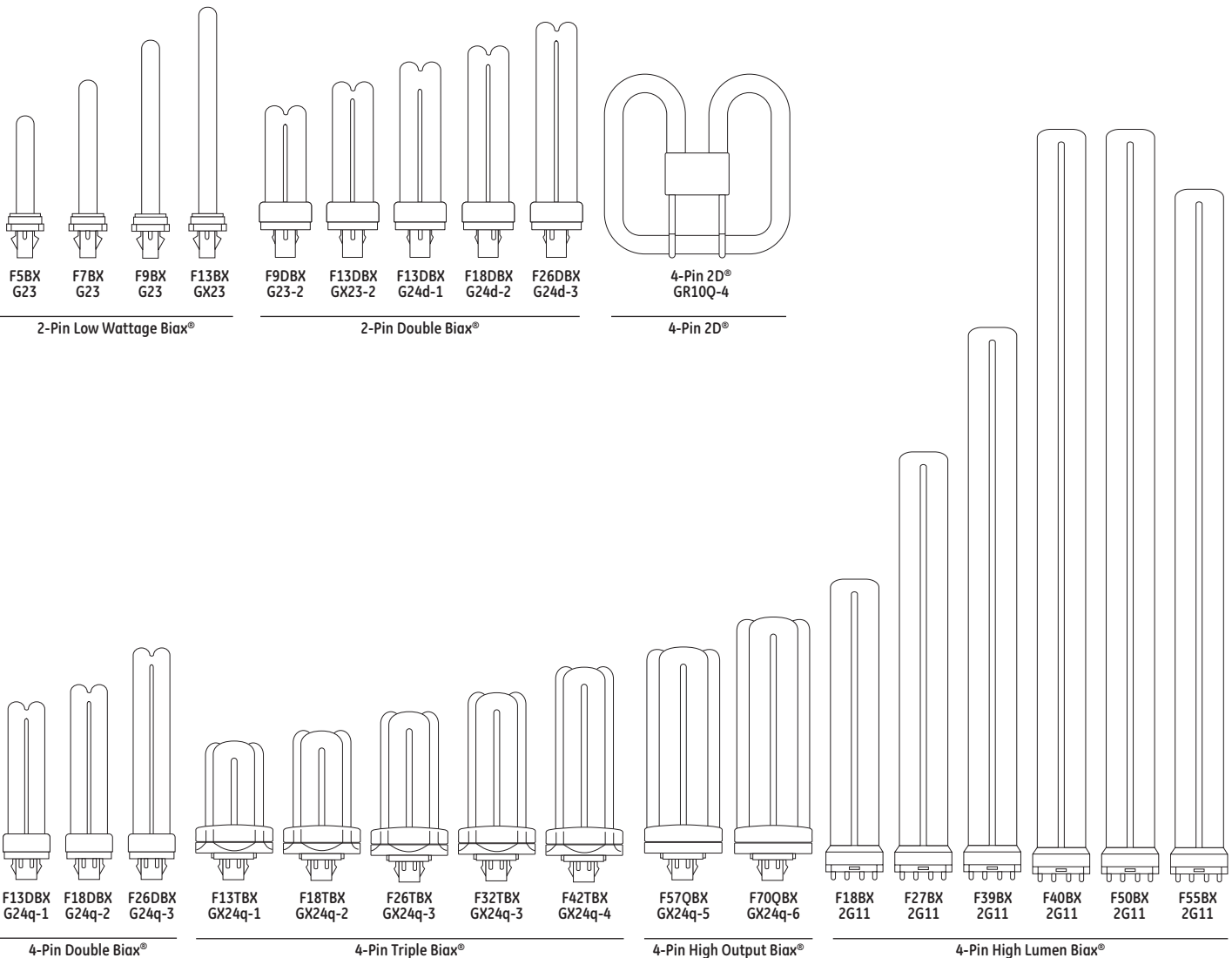
NOMINAL LENGTH:

Overall length including base or pins.

Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

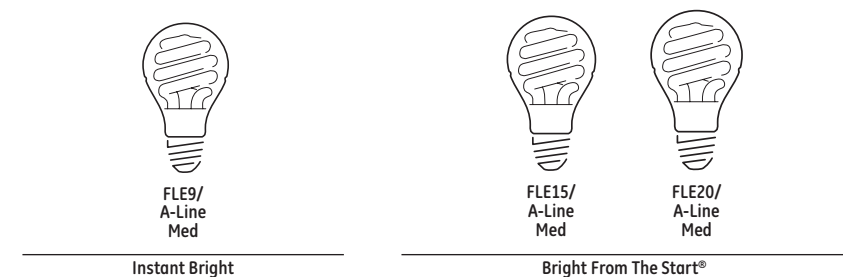
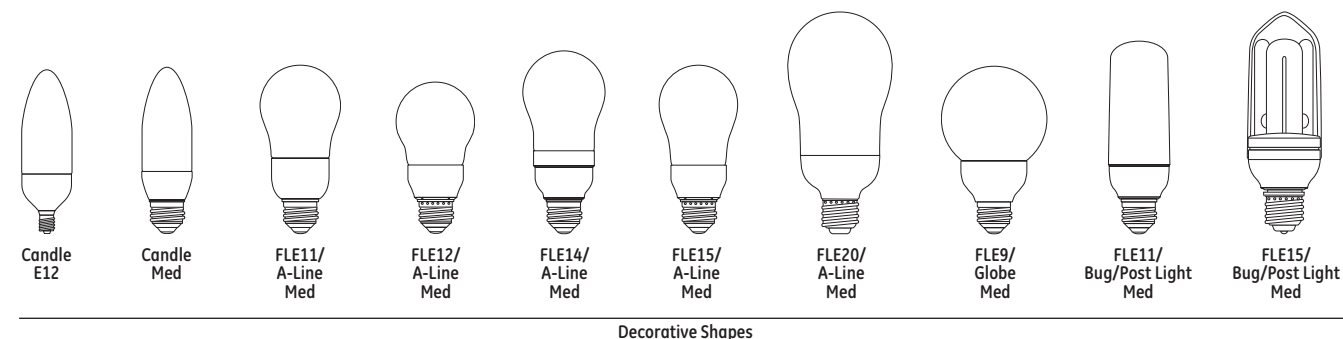
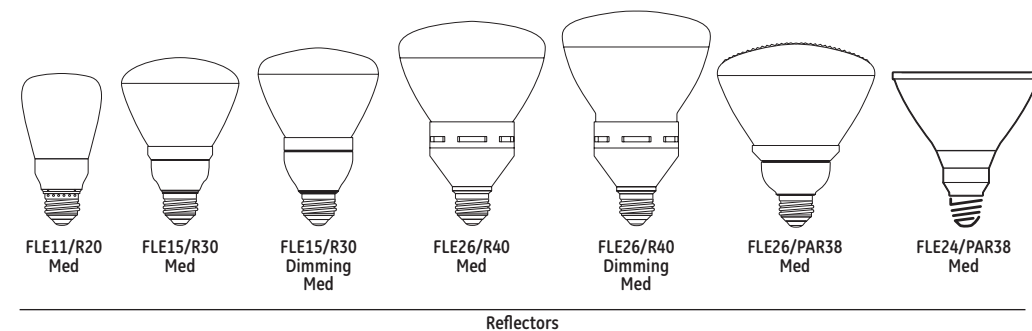
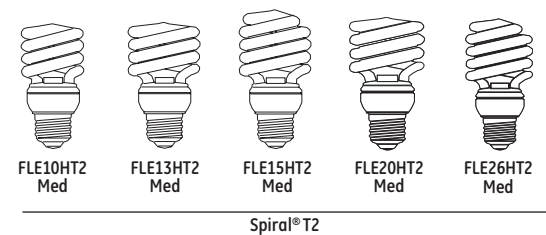
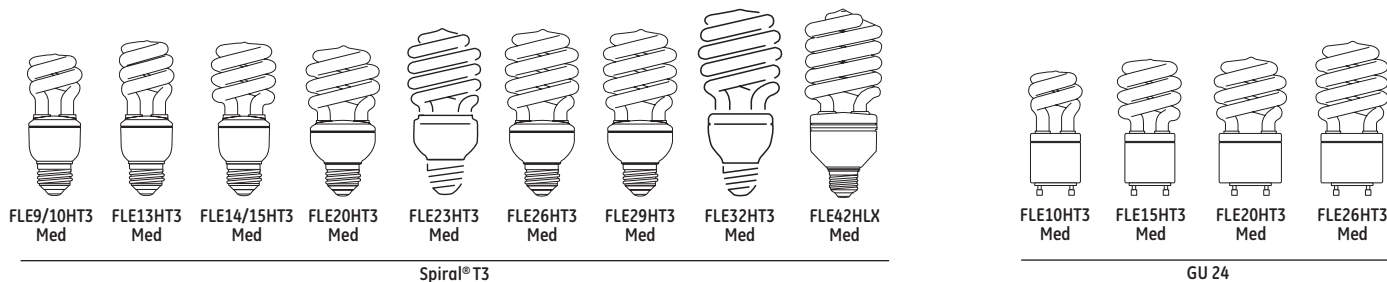
To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

Lamp Locator



Plug-in Lamps

Lamp Locator (continued)



Self-Ballasted Lamps

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

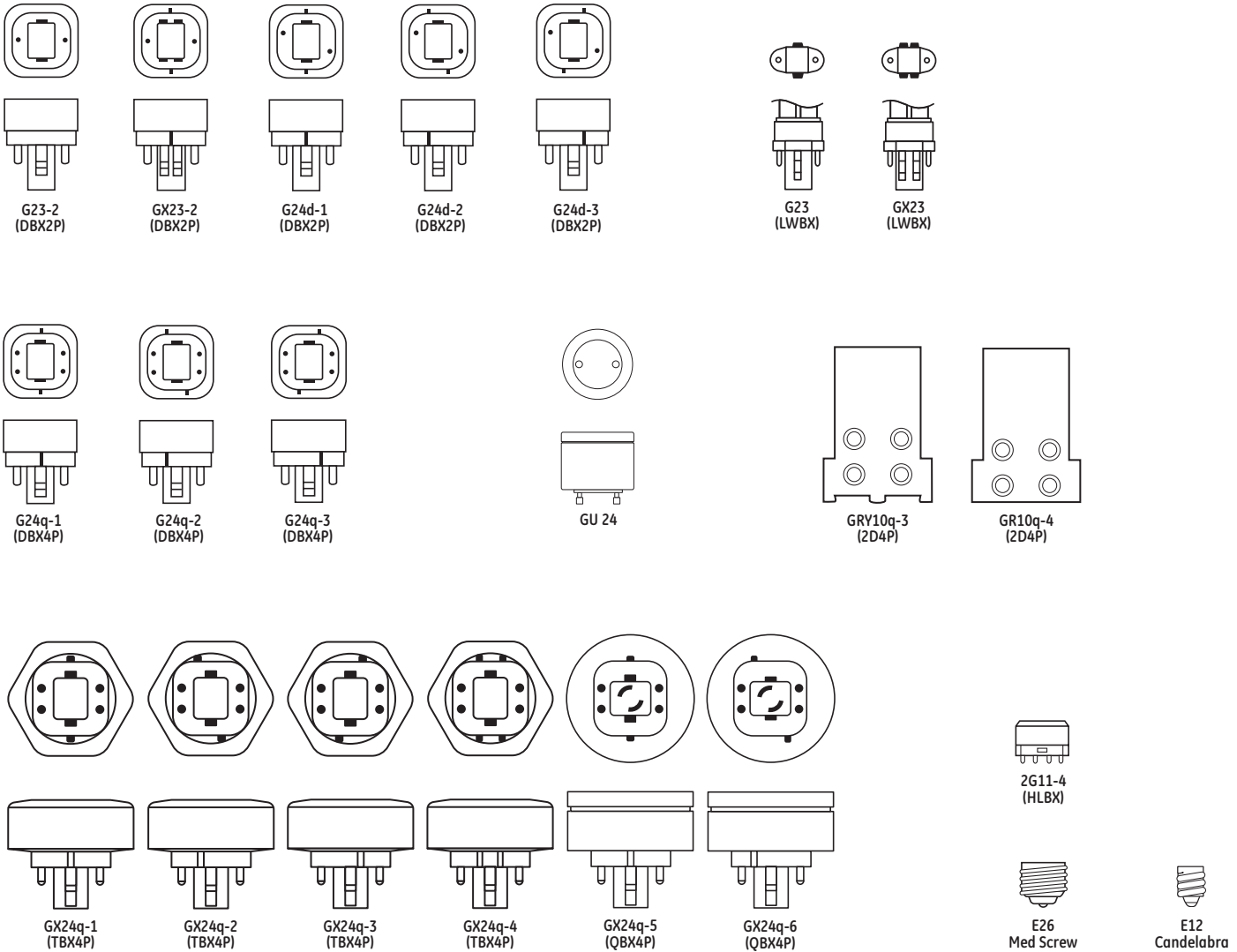
Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

Compact Fluorescent Lamps

Base Identification



Introduction

GE Compact Fluorescent lamps offer many advantages:

- Dramatic energy cost savings...up to 77% vs. incandescent lamps of comparable light output
- Extra long life...most last 8 to 10 times longer, and some last up to 20 times longer, than standard incandescent lamps
- High light output comparable to, and in many cases exceeding, incandescent lamps replaced
- Excellent color rendering...rare earth tri-phosphor provides such high-quality color you won't believe it's fluorescent. Most types offer a choice of color options, from warm to cool, to let you select the tone and atmosphere you need.
- A choice of wattages, shapes and sizes to meet your lighting needs. Designed to fit everything from table lamps to wall sconces and ceiling fixtures.
- Many lamps use amalgam technology which provides stable lumen performance when operated in any position, over a wider range of ambient temperatures.

Compact Fluorescent Brand Name Cross-Reference

| GE | OSRAM/SYLVANIA | PHILIPS |
|-------------------|-----------------|----------|
| 2D® | — | — |
| Biax® | Dulux® S | PL-S |
| High Lumen Biax® | Dulux® L | PL-L |
| Double Biax® | Dulux® D, D/E | PL-C |
| Triple Biax® | Dulux® T/E | PL-T |
| Quad Biax® | — | — |
| High Output Biax® | — | PL-H |
| Spiral® | Dulux® EL Twist | EL Twist |

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturers' performance specifications should be consulted. Lamp performance may be affected by environmental conditions, ballast type and/or other auxiliary equipment.

Product Information

Plug-in Lamps

2-Pin Low Wattage Biax® (pg 5-7)

- Compact size offers fixture and design flexibility
- GX23 and G23 bases are preheat lamps with internal starters
- 13-watt version also available with internal electronic starter, providing flicker-free instant on
- Available in warm and cool color temperatures
- TCLP Compliant

4-Pin High Lumen Biax® (pg 5-7)

- Available in a range of sizes and wattages for innovative compact luminaires
- High efficiency and outstanding performance in fixtures make them ideal for 2X2, 1X1 and indirect fixtures
- Available in warm to cool color temperatures; excellent color rendering

2-Pin Double Biax® (pg 5-8)

- More compact than low-wattage Biax® CFLs with higher lumen output—suitable for a broad range of applications
- Preheat lamps with starters; not suitable for use with dimming ballasts
- 26-watt version also available with internal electronic starter, providing flicker-free instant on
- Available in warm to cool color temperatures
- TCLP Compliant

4-Pin Double Biax® (pg 5-8)

- More compact than low-wattage Biax® CFLs with higher lumen output—suitable for a broad range of applications
- Dimmable and compatible with electronic ballasts
- Available in warm to cool color temperatures
- TCLP Compliant

4-Pin Triple Biax® (pg 5-8)

- GE's shortest, most compact Biax® lamp. 17-31% shorter than similar wattage Double Biax® lamps.
- 4-Pin, dimmable and compatible with electronic ballasts
- Available in a wide range of wattages: from 13 to 42 watts
- Available in warm to cool color temperatures
- TCLP Compliant

4-Pin High Output Biax® (pg 5-9)

- GE's highest light output compact fluorescent lamps
- High efficacy 72-75 LPW
- Dimmable, available in 5 colors (2,700 to 5,000K)
- Suitable for high-bay lighting
- TCLP Compliant

4-Pin 2D® (pg 5-9)

- Unique shape suitable for broad range of applications
- Uniform light distribution
- High light output – up to 200W incandescent equivalent

Self-Ballasted Lamps

Spiral® (pg 5-11)

- Long life – up to 12,000 hours or more
- One-piece unit screws directly into incandescent sockets
- Wide variety of wattages to meet application needs
- T2 & T3 Spiral® CFLs provide economical solution with small overall size
- The 42-watt T4 Spiral® CFL provides a 150W incandescent replacement in the smallest possible size (fits an 8.5" harp)
- Color-enhanced CFL Reveal® mimics the color of incandescent and halogen Reveal® lamps

3-Way (pg 5-12)

- T3 and T4 lamps available

GU 24 (pg 5-12)

- Long life – 10,000 hour rating
- Simple twist and lock design allows quick and easy lamp change
- Fits all fixtures with GU 24 base

Reflectors/Indoor PAR (pg 5-12)

- R20, R30, R40 and PAR38 glass reflectors available to meet application needs
- Medium based; fits most incandescent reflector applications
- R30 and R40 lamps available with dimming functionality

Decorative Shapes (pg 5-13)

- Variety of shapes (A-Line, Bullet, Candle, Globe, and Post) and wattages to meet all needs
- One-piece unit screws directly into incandescent sockets
- Candle-shaped CFLs available in both medium base and candelabra base

Specialty (pg 5-14)

- T3 13-watt Spiral® CFLs are available in green, red, blacklight, orange, yellow and blue

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
FluorescentLED Lamps,
Tubes and Modules

Stage and Studio

Miniature, Sealed
Beam and Automotive

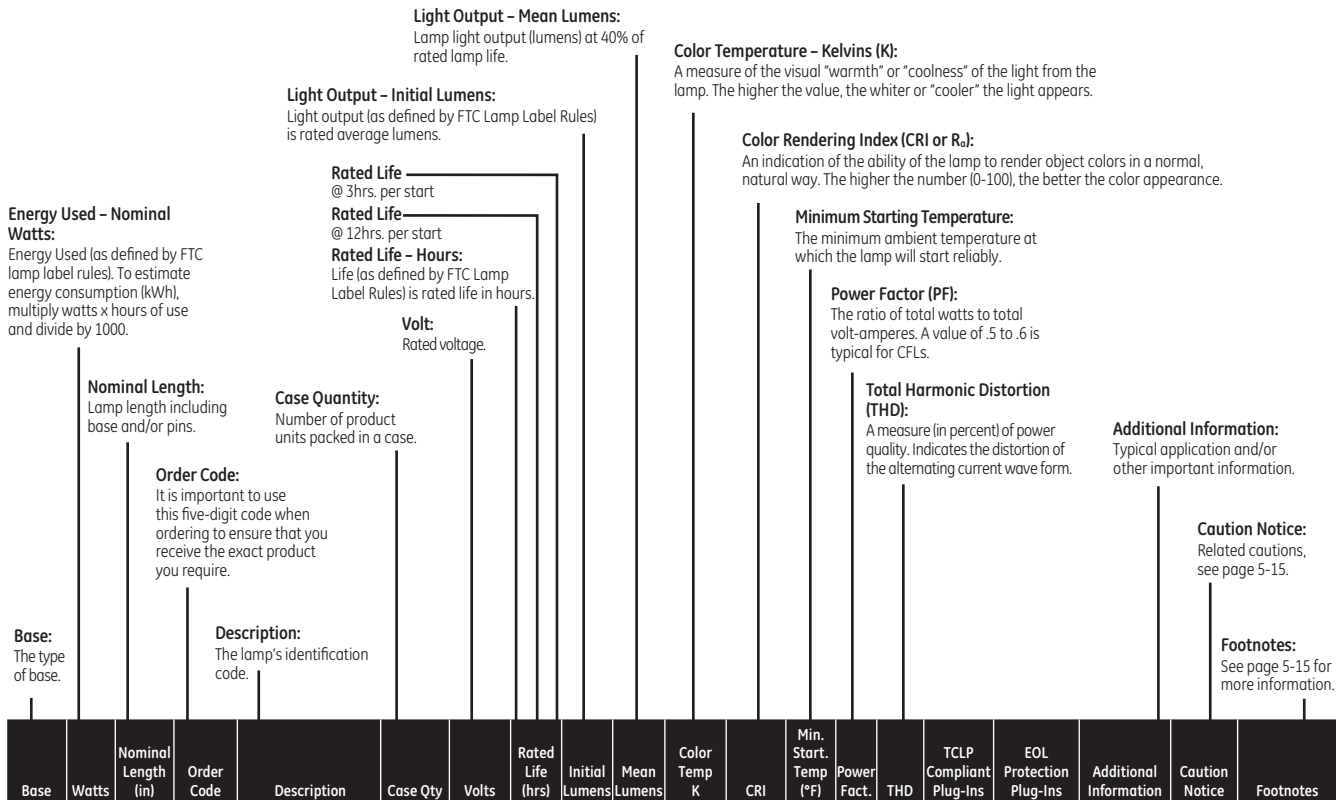
Projection

Compact Fluorescent Lamps

Headings in this catalog section

The following terms and descriptions can help you when checking Compact Fluorescent lamp specifications and when ordering

products. Within each product line, lamps are divided into families, within these families, lamps are then listed by wattage.

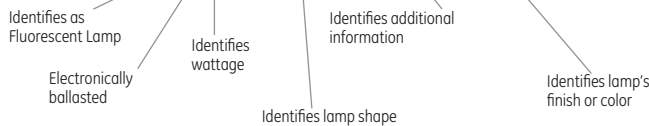


Self-Ballasted Lamps

| Spiral® | | | | | | | | | | | | | | | | | | | |
|---------|-------|---------------------|------------|----------------|----------|-------|------------------|----------------|-------------|--------------|-----|-----------------------|-------------|-----|-------------------------|-------------------------|------------------------|----------------|------------|
| Base | Watts | Nominal Length (in) | Order Code | Description | Case Qty | Volts | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Min. Start. Temp (°F) | Power Fact. | THD | TCLP Compliant Plug-Ins | EOL Protection Plug-Ins | Additional Information | Caution Notice | Footnotes |
| Med | 10 | 4.4 | 15829 | FLE10HT3/2/827 | 10 | 120 | 8000 | 520 | 420 | 2700 | 82 | 5 | 0.6 | 120 | | | T3 Spiral®, Boxed | 153 | 1,7,8,9,10 |


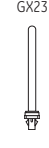



FL E 10 HT3 / 2 / 827



WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape next to lamp information.
2. Measure bulb diameter using ruler in appendix section page D-1 to determine width in eighths of an inch.
3. Identify base type using table on page 5-4.
4. Find your lamp in the table containing the bulb shape, size and base.

| Base | Watts | Nom. Length (in) | Order Code | Description | Case Qty | Rated Life (hrs) | Initial Lumens | Mean Lumens | Color Temp K | CRI | Min Starting Temp (°F) | TCLP Compliant Plug-Ins | EOL Protection Plug-Ins | Additional Information | Caution Notice | Footnotes |
|--|---|------------------|------------|-------------------|---------------|------------------|----------------|-------------|--------------|------|------------------------|-------------------------|-------------------------|-----------------------------|----------------|-----------|
| Plug-in Lamps | | | | | | | | | | | | | | | | |
| 2-Pin Low Wattage Biax® | | | | | | | | | | | | | | | | |
|  | 5 | 4.2 | 97551 | F5BX/827/ECO | 100 | 10000 | 265 | 220 | 2700 | 82 | 0 | * | | | 151 | 1,2 |
| | 5 | 4.2 | 97553 | F5BX/841/ECO | 100 | 10000 | 265 | 220 | 4100 | 82 | 0 | * | | | 151 | 1,2 |
| | 7 | 5.3 | 97554 | F7BX/827/ECO | 100 | 10000 | 425 | 350 | 2700 | 82 | 0 | * | | | 151 | 1,2 |
| | 7 | 5.3 | 97556 | F7BX/835/ECO | 100 | 10000 | 425 | 350 | 3500 | 82 | 0 | * | | | 151 | 1,2 |
| | 7 | 5.3 | 97557 | F7BX/841/ECO | 100 | 10000 | 425 | 350 | 4100 | 82 | 0 | * | | | 151 | 1,2 |
| | 9 | 6.6 | 97558 | F9BX/827/ECO | 100 | 10000 | 600 | 500 | 2700 | 82 | 0 | * | | | 151 | 1,2 |
| | 9 | 6.6 | 97560 | F9BX/835/ECO | 100 | 10000 | 600 | 500 | 3500 | 82 | 0 | * | | | 151 | 1,2 |
| | 9 | 6.6 | 97561 | F9BX/841/ECO | 100 | 10000 | 600 | 500 | 4100 | 82 | 0 | * | | | 151 | 1,2 |
| |  | 13 | 7.0 | 97573 | F13BX/827/ECO | 100 | 10000 | 825 | 710 | 2700 | 82 | 32 | * | | | 151 |
| 13 | | 7.0 | 97574 | F13BX/830/ECO | 100 | 10000 | 825 | 710 | 3000 | 82 | 32 | * | | | 151 | 1,2 |
| 13 | | 7.0 | 97569 | F13BX/835/ECO | 100 | 10000 | 825 | 710 | 3500 | 82 | 32 | * | | | 151 | 1,2 |
| 13 | | 7.0 | 97571 | F13BX/841/ECO | 100 | 10000 | 825 | 710 | 4100 | 82 | 32 | * | | | 151 | 1,2 |
| 13 | | 7.0 | 97572 | F13BX/850/ECO | 100 | 10000 | 784 | 675 | 5000 | 80 | 32 | * | | | 151 | 1,2 |
| | | | | F13BX/E/830/ECO | 100 | 10000 | 825 | 710 | 3000 | 82 | -4 | * | | Internal Electronic Starter | 151 | 1,2 |
| 4-Pin High Lumen Biax® | | | | | | | | | | | | | | | | |
|  | 18 | 9.0 | 16649 | F18BX/SPX30 10PK | 40 | 10000 | 1200 | 1080 | 3000 | 82 | 25 | | | | 151 | 1,2,4,6 |
| | 18 | 9.0 | 16053 | F18BX/SPX35 10PK | 40 | 10000 | 1200 | 1080 | 3500 | 82 | 25 | | | | 151 | 1,2,4,6 |
| | 18 | 9.0 | 16940 | F18BX/SPX41 10PK | 40 | 10000 | 1200 | 1080 | 4100 | 82 | 25 | | | | 151 | 1,2,4,6 |
| | 18 | 10.0 | 17174 | F18BXSPX30RS10PK | 40 | 20000 | 1250 | 1130 | 3000 | 82 | 50 | | | | 151 | 1,2,6,13 |
| | 18 | 10.5 | 17175 | F18BXSPX35RS10PK | 40 | 20000 | 1250 | 1130 | 3500 | 82 | 50 | | | | 151 | 1,2,6,13 |
| | 18 | 10.5 | 12521 | F18BX/SPX65/RS | 40 | 20000 | 1160 | 1050 | 6500 | 82 | 50 | | | | 151 | 1,2,6,13 |
| | 27 | 12.8 | 16944 | F27BXSPX30RS10PK | 40 | 12000 | 1800 | 1620 | 3000 | 82 | 50 | | | | 151 | 1,2,6,13 |
| | 27 | 12.8 | 16948 | F27BXSPX35RS10PK | 40 | 12000 | 1800 | 1620 | 3500 | 82 | 50 | | | | 151 | 1,2,6,13 |
| | 27 | 12.8 | 16951 | F27BXSPX41RS10PK | 40 | 12000 | 1800 | 1620 | 4100 | 82 | 50 | | | | 151 | 1,2,6,13 |
| | 39 | 16.5 | 16538 | F39BXSPX30RS10PK | 40 | 12000 | 2850 | 2510 | 3000 | 82 | 50 | | | | 151 | 1,2,6,13 |
| | 39 | 16.5 | 15867 | F39BXSPX35RS10PK | 40 | 12000 | 2850 | 2510 | 3500 | 82 | 50 | | | | 151 | 1,2,6,13 |
| | 39 | 16.5 | 16952 | F39BXSPX41RS10PK | 40 | 12000 | 2850 | 2510 | 4100 | 82 | 50 | | | | 151 | 1,2,6,13 |
| | 40 | 22.5 | 16953 | F4030BXSPX30 10P | 40 | 20000 | 3150 | 2840 | 3000 | 82 | 50 | | | | 151 | 1,2,6,13 |
| | 40 | 22.5 | 20444 | F40/30BXSPX30-36 | 36 | 20000 | 3150 | 2840 | 3000 | 82 | 50 | | | Bulk Pack | 151 | 1,2,6,13 |
| | 40 | 22.5 | 16648 | F40/30BX/SPX35 | 40 | 20000 | 3150 | 2840 | 3500 | 82 | 50 | | | | 151 | 1,2,6,13 |
| | 40 | 22.5 | 20446 | F40/30BXSPX35-36 | 36 | 20000 | 3150 | 2840 | 3500 | 82 | 50 | | | Bulk Pack | 151 | 1,2,6,13 |
| | 40 | 22.5 | 16954 | F40/30BX/SPX41 | 40 | 20000 | 3150 | 2840 | 4100 | 82 | 50 | | | | 151 | 1,2,6,13 |
| | 40 | 22.5 | 20447 | F40/30BXSPX41-36 | 36 | 20000 | 3150 | 2840 | 4100 | 82 | 50 | | | Bulk Pack | 151 | 1,2,6,13 |
| | 40 | 22.5 | 10490 | F40/30BX/SPX50RS | 36 | 20000 | 2900 | 2700 | 5000 | 80 | 50 | | | Bulk Pack | 151 | 1,2,6,13 |
| | 25 | 21.5 | 75399 | F40/25BX830/IS/WM | 40 | 20000 | 2600 | 2400 | 3000 | 82 | 50 | | | | 151 | 1,2,6,13 |
| | 25 | 21.5 | 75400 | F40/25BX835/IS/WM | 40 | 20000 | 2600 | 2400 | 3500 | 82 | 50 | | | | 151 | 1,2,6,13 |
| | 25 | 21.5 | 75401 | F40/25BX840/IS/WM | 40 | 20000 | 2600 | 2400 | 4100 | 82 | 50 | | | | 151 | 1,2,6,13 |
| | 25 | 21.5 | 75402 | F40/25BX850/IS/WM | 40 | 20000 | 2600 | 2400 | 5000 | 82 | 50 | | | | 151 | 1,2,6,13 |
| | 50 | 22.5 | 20898 | F50BXSPX30RS10PK | 40 | 20000 | 4000 | 3400 | 3000 | 82 | 50 | | | | 151 | 1,2,6,13 |
| | 50 | 22.5 | 20899 | F50BXSPX35RS10PK | 40 | 20000 | 4000 | 3400 | 3500 | 82 | 50 | | | | 151 | 1,2,6,13 |
| | 50 | 22.5 | 20900 | F50BXSPX41RS10PK | 40 | 20000 | 4000 | 3400 | 4100 | 82 | 50 | | | | 151 | 1,2,6,13 |
| | 55 | 20.7 | 31951 | F55BX/830 | 25 | 20000 | 4800 | 4080 | 3000 | 82 | 50 | | | | 151 | 1,2,6,13 |
| 55 | 20.7 | 31952 | F55BX/835 | 25 | 20000 | 4800 | 4080 | 3500 | 82 | 50 | | | | 151 | 1,2,6,13 | |
| 55 | 20.7 | 31953 | F55BX/840 | 25 | 20000 | 4800 | 4080 | 4100 | 82 | 50 | | | | 151 | 1,2,6,13 | |

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent












LED Lamps, Tubes and Modules







Stage and Studio

Miniature, Sealed Beams and Automotive

Projection

Compact Fluorescent Lamps

| Base | Watts | Nom. Length (in) | Order Code | Description | Case Qty | Rated Life (hrs) | Rated Life @ 12 Hrs | Initial Lumens | Mean Lumens | Color Temp K | CRI | Min Starting Temp (°F) | TCLP Compliant Plug-Ins | EOL Protection Plug-Ins | Additional Information | Caution Notice | Footnotes |
|---|-------|------------------|------------|-------------------|----------|------------------|---------------------|----------------|-------------|--------------|-----|------------------------|-------------------------|-------------------------|-----------------------------|----------------|----------------|
| Plug-in Lamps (continued) | | | | | | | | | | | | | | | | | |
| 2-Pin Double Biax® | | | | | | | | | | | | | | | | | |
|  | 9 | 5.5 | 97576 | F9DBX23/827/ECO | 50 | 12000 | | 550 | 470 | 2700 | 82 | | * | | | 151 | 1,2,17 |
| | 9 | 5.5 | 97575 | F9DBX23/841/ECO | 50 | 12000 | | 550 | 470 | 4100 | 82 | | * | | | 151 | 1,2,17 |
|  | 13 | 4.7 | 97586 | F13DBX23/827/ECO | 50 | 12000 | | 810 | 685 | 2700 | 82 | | * | | | 151 | 1,2,17 |
| | 13 | 4.7 | 97587 | F13DBX23/830/ECO | 50 | 12000 | | 810 | 685 | 3000 | 82 | | * | | | 151 | 1,2,17 |
| | 13 | 4.7 | 97588 | F13DBX23/835/ECO | 50 | 12000 | | 810 | 685 | 3500 | 82 | | * | | | 151 | 1,2,17 |
| | 13 | 4.7 | 97589 | F13DBX23/841/ECO | 50 | 12000 | | 810 | 685 | 4100 | 82 | | * | | | 151 | 1,2,17 |
|  | 13 | 5.3 | 97590 | F13DBX/827/ECO | 50 | 12000 | | 900 | 755 | 2700 | 82 | | * | | | 151 | 1,2,17 |
| | 13 | 5.3 | 97591 | F13DBX/830/ECO | 50 | 12000 | | 900 | 755 | 3000 | 82 | | * | | | 151 | 1,2,17 |
| | 13 | 5.3 | 97592 | F13DBX/835/ECO | 50 | 12000 | | 900 | 755 | 3500 | 82 | | * | | | 151 | 1,2,17 |
| | 13 | 5.3 | 97593 | F13DBX/841/ECO | 50 | 12000 | | 900 | 755 | 4100 | 82 | | * | | | 151 | 1,2,17 |
|  | 18 | 6.1 | 97577 | F18DBX/827/ECO | 50 | 12000 | | 1250 | 980 | 2700 | 82 | | * | | | 151 | 1,2,5,17 |
| | 18 | 6.1 | 97578 | F18DBX/830/ECO | 50 | 12000 | | 1250 | 980 | 3000 | 82 | | * | | | 151 | 1,2,5,17 |
| | 18 | 6.1 | 97579 | F18DBX/835/ECO | 50 | 12000 | | 1250 | 980 | 3500 | 82 | | * | | | 151 | 1,2,5,17 |
| | 18 | 6.1 | 97580 | F18DBX/841/ECO | 50 | 12000 | | 1250 | 980 | 4100 | 82 | | * | | | 151 | 1,2,5,17 |
|  | 26 | 6.7 | 97606 | F26DBX/827/ECO | 50 | 12000 | | 1710 | 1460 | 2700 | 82 | | * | | | 151 | 1,2,17 |
| | 26 | 6.7 | 97607 | F26DBX/830/ECO | 50 | 12000 | | 1710 | 1460 | 3000 | 82 | | * | | | 151 | 1,2,17 |
| | 26 | 6.7 | 97608 | F26DBX/835/ECO | 50 | 12000 | | 1710 | 1460 | 3500 | 82 | | * | | | 151 | 1,2,17 |
| | 26 | 6.7 | 97609 | F26DBX/841/ECO | 50 | 12000 | | 1710 | 1460 | 4100 | 82 | | * | | | 151 | 1,2,17 |
| | 26 | 6.7 | 97602 | F26DBX/E/827/ECO | 50 | 10000 | | 1710 | 1460 | 2700 | 82 | | * | | Internal Electronic Starter | 151 | 1,2,15,17 |
| | 26 | 6.7 | 97604 | F26DBX/E/835/ECO | 50 | 10000 | | 1710 | 1460 | 3500 | 82 | | * | | Internal Electronic Starter | 151 | 1,2,15,17 |
| 4-Pin Double Biax® | | | | | | | | | | | | | | | | | |
|  | 13 | 5.0 | 97594 | F13DBX/827/ECO4P | 50 | 17000 | 20000 | 900 | 755 | 2700 | 82 | | * | ▲ | | 151 | 1,2,6,17,18 |
| | 13 | 5.0 | 97595 | F13DBX/830/ECO4P | 50 | 17000 | 20000 | 900 | 755 | 3000 | 82 | | * | ▲ | | 151 | 1,2,6,17,18 |
| | 13 | 5.0 | 97596 | F13DBX/835/ECO4P | 50 | 17000 | 20000 | 900 | 755 | 3500 | 82 | | * | ▲ | | 151 | 1,2,6,17,18 |
| | 13 | 5.0 | 97597 | F13DBX/841/ECO4P | 50 | 17000 | 20000 | 900 | 755 | 4100 | 82 | | * | ▲ | | 151 | 1,2,6,17,18 |
|  | 18 | 5.8 | 97598 | F18DBX/827/ECO4P | 50 | 17000 | 20000 | 1250 | 970 | 2700 | 82 | | * | ▲ | | 151 | 1,2,5,6,17,18 |
| | 18 | 5.8 | 97599 | F18DBX/830/ECO4P | 50 | 17000 | 20000 | 1250 | 970 | 3000 | 82 | | * | ▲ | | 151 | 1,2,5,6,17,18 |
| | 18 | 5.8 | 97600 | F18DBX/835/ECO4P | 50 | 17000 | 20000 | 1250 | 970 | 3500 | 82 | | * | ▲ | | 151 | 1,2,5,6,17,18 |
| | 18 | 5.8 | 97601 | F18DBX/841/ECO4P | 50 | 17000 | 20000 | 1250 | 970 | 4100 | 82 | | * | ▲ | | 151 | 1,2,5,6,17,18 |
|  | 26 | 6.4 | 97610 | F26DBX/827/ECO4P | 50 | 17000 | 20000 | 1800 | 1530 | 2700 | 82 | | * | ▲ | | 151 | 1,2,6,17,18 |
| | 26 | 6.4 | 97611 | F26DBX/830/ECO4P | 50 | 17000 | 20000 | 1800 | 1530 | 3000 | 82 | | * | ▲ | | 151 | 1,2,6,17,18 |
| | 26 | 6.4 | 97612 | F26DBX/835/ECO4P | 50 | 17000 | 20000 | 1800 | 1530 | 3500 | 82 | | * | ▲ | | 151 | 1,2,6,17,18 |
| | 26 | 6.4 | 97613 | F26DBX/841/ECO4P | 50 | 17000 | 20000 | 1800 | 1530 | 4100 | 82 | | * | ▲ | | 151 | 1,2,6,17,18 |
| 4-Pin Triple Biax® | | | | | | | | | | | | | | | | | |
|  | 13 | 4.2 | 97623 | F13TBX/827/4P/ECO | 10 | 17000 | 20000 | 900 | 755 | 2700 | 82 | | * | ▲ | Non-Amalgam | 151 | 1,2,6,17,18 |
| | 13 | 4.2 | 97619 | F13TBX/827/A/ECO | 10 | 17000 | 20000 | 900 | 755 | 2700 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 13 | 4.2 | 97620 | F13TBX/830/A/ECO | 10 | 17000 | 20000 | 900 | 755 | 3000 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 13 | 4.2 | 97621 | F13TBX/835/A/ECO | 10 | 17000 | 20000 | 900 | 755 | 3500 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 13 | 4.2 | 97622 | F13TBX/841/A/ECO | 10 | 17000 | 20000 | 900 | 755 | 4100 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
|  | 18 | 4.8 | 97628 | F18TBX/827/4P/ECO | 10 | 17000 | 20000 | 1200 | 1010 | 2700 | 82 | | * | ▲ | Non-Amalgam | 151 | 1,2,6,17,18 |
| | 18 | 4.8 | 97624 | F18TBX/827/A/ECO | 10 | 17000 | 20000 | 1200 | 1010 | 2700 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 18 | 4.8 | 97625 | F18TBX/830/A/ECO | 10 | 17000 | 20000 | 1200 | 1010 | 3000 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 18 | 4.8 | 97626 | F18TBX/835/A/ECO | 10 | 17000 | 20000 | 1200 | 1010 | 3500 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
|  | 18 | 4.8 | 97627 | F18TBX/841/A/ECO | 10 | 17000 | 20000 | 1200 | 1020 | 4100 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 26 | 5.2 | 97618 | F26TBX/827/4P/ECO | 10 | 17000 | 20000 | 1800 | 1530 | 2700 | 82 | | * | ▲ | Non-Amalgam | 151 | 1,2,6,17,18 |
| | 26 | 5.2 | 97614 | F26TBX/827/A/ECO | 10 | 17000 | 20000 | 1800 | 1530 | 2700 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 26 | 5.2 | 97615 | F26TBX/830/A/ECO | 10 | 17000 | 20000 | 1800 | 1530 | 3000 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 26 | 5.2 | 97616 | F26TBX/835/A/ECO | 10 | 17000 | 20000 | 1800 | 1530 | 3500 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |
| | 26 | 5.2 | 97617 | F26TBX/841/A/ECO | 10 | 17000 | 20000 | 1800 | 1530 | 4100 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 |

| Base | Watts | Nom. Length (in) | Order Code | Description | Case Qty | Rated Life (hrs) | Rated Life 12 Hrs | Life In Years | Energy Cost \$/Year | Initial Lumens | Mean Lumens | Color Temp K | CRI | Min Starting Temp (°F) | TCLP Compliant Plug-Ins | EOL Protection Plug-Ins | Additional Information | Caution Notice | Footnotes | |
|---|-------|------------------|------------|------------------|----------|------------------|-------------------|---------------|---------------------|----------------|-------------|--------------|------|------------------------|-------------------------|-------------------------|----------------------------|----------------|----------------|---------|
| Plug-in Lamps (continued) | | | | | | | | | | | | | | | | | | | | |
| 4-Pin Triple Biax® (continued) | | | | | | | | | | | | | | | | | | | | |
|  GX24q-3 | 32 | 5.5 | 97629 | F32TBX/827/A/ECO | 10 | 17000 | 20000 | | | 2400 | 2040 | 2700 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 | |
| | 32 | 5.5 | 97630 | F32TBX/830/A/ECO | 10 | 17000 | 20000 | | | 2400 | 2040 | 3000 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 | |
| | 32 | 5.5 | 97631 | F32TBX/835/A/ECO | 10 | 17000 | 20000 | | | 2400 | 2040 | 3500 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 | |
| | 32 | 5.5 | 97632 | F32TBX/841/A/ECO | 10 | 17000 | 20000 | | | 2400 | 2040 | 4100 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 | |
| | 32 | 5.5 | 65337 | F32TBX/850/A/ECO | 10 | 17000 | 20000 | | | 2400 | 2040 | 5000 | 82 | | * | ▲ | | | | |
|  GX24q-4 | 42 | 6.4 | 97633 | F42TBX/827/A/ECO | 10 | 17000 | 20000 | | | 3200 | 2690 | 2700 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 | |
| | 42 | 6.4 | 97634 | F42TBX/830/A/ECO | 10 | 17000 | 20000 | | | 3200 | 2690 | 3000 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 | |
| | 42 | 6.4 | 97635 | F42TBX/835/A/ECO | 10 | 17000 | 20000 | | | 3200 | 2690 | 3500 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 | |
| | 42 | 6.4 | 97636 | F42TBX/841/A/ECO | 10 | 17000 | 20000 | | | 3200 | 2690 | 4100 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 | |
| | 42 | 6.4 | 65338 | F42TBX/850/A/ECO | 10 | 17000 | 20000 | | | 3200 | 2690 | 5000 | 82 | | * | ▲ | | | | |
| 4-Pin High Output Biax® | | | | | | | | | | | | | | | | | | | | |
|  GX24q-5 | 57 | 7.1 | 48861 | F57QBX827A4P/EOL | 10 | 17000 | 20000 | | | 4300 | 3700 | 2700 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 | |
| | 57 | 7.1 | 48863 | F57QBX835A4P/EOL | 10 | 17000 | 20000 | | | 4300 | 3700 | 3500 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 | |
| | 57 | 7.1 | 48864 | F57QBX841/A/ECO | 10 | 17000 | 20000 | | | 4300 | 3700 | 4100 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 | |
| | 57 | 5.2 | 93404 | F57QBX850A4P/EOL | 10 | 17000 | 20000 | | | 4300 | 3700 | 5000 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 | |
|  GX24q-6 | 70 | 8.2 | 48865 | F70QBX827A4P/EOL | 10 | 17000 | 20000 | | | 5200 | 4470 | 2700 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 | |
| | 70 | 8.2 | 48866 | F70QBX830A4P/EOL | 10 | 17000 | 20000 | | | 5200 | 4470 | 3000 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 | |
| | 70 | 8.2 | 48867 | F70QBX835A4P/EOL | 10 | 17000 | 20000 | | | 5200 | 4470 | 3500 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 | |
| | 70 | 8.2 | 48868 | F70QBX841/A/ECO | 10 | 17000 | 20000 | | | 5200 | 4470 | 4100 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 | |
| | 70 | 8.2 | 93406 | F70QBX850A4P/EOL | 10 | 17000 | 20000 | | | 5200 | 4470 | 5000 | 82 | | * | ▲ | | 151 | 1,2,6,12,17,18 | |
| 4-Pin 2D® | | | | | | | | | | | | | | | | | | | | |
|  GR10q-4 | 10 | 3.6 | 21301 | F102D/827/4P | 60 | 10000 | | | | 650 | 545 | 2700 | 82 | | | | | 151 | 1,2,3,6 | |
| | 16 | 5.5 | 22169 | F162D/827/4P | 50 | 10000 | | | | 1050 | 880 | 2700 | 82 | | | | | | 151 | 1,2,3,6 |
| | 16 | 5.5 | 22177 | F162D/835/4P | 50 | 10000 | | | | 1050 | 880 | 3500 | 82 | | | | | | 151 | 1,2,3,6 |
| | 21 | 5.5 | 21303 | F212D/827/4P | 50 | 10000 | | | | 1350 | 1135 | 2700 | 82 | | | | | | 151 | 1,2,3,6 |
| | 21 | 5.5 | 22178 | F212D/835/4P | 50 | 10000 | | | | 1350 | 1135 | 3500 | 82 | | | | | | 151 | 1,2,3,6 |
| | 28 | 8.1 | 22172 | F282D/827/4P | 20 | 10000 | | | | 2050 | 1720 | 2700 | 82 | | | | | | 151 | 1,2,3,6 |
| | 28 | 8.1 | 22180 | F282D/835/4P | 20 | 10000 | | | | 2050 | 1720 | 3500 | 82 | | | | | | 151 | 1,2,3,6 |
| | 38 | 8.1 | 21305 | F382D/827/4P | 20 | 10000 | | | 9.1 | \$4.58 | 2850 | 2395 | 2700 | 82 | | * | | | 151 | 1,2,3,6 |
| | 38 | 8.1 | 22181 | F382D/835/4P | 20 | 10000 | | | | | 2850 | 2395 | 3500 | 82 | | * | | | 151 | 1,2,3,6 |
|  GRY10q-3 | 55 | 8.1 | 36358 | F552D/830A/T4P/B | 20 | 10000 | | | | 4000 | 3400 | 3000 | 82 | | | | Torchiere Replacement Lamp | 151 | 1,2,3,6 | |

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent













LED Lamps, Tubes and Modules







Stage and Studio

Miniature, Sealed Beam and Automotive











Projection








Compact Fluorescent Lamps

| Base | Watts | Nominal Length (in) | Order Code | Description | Case/Std. Pkg Qty | Volts | Initial Lumens | Mean Lumens | Color Temp K | CRI | Min. Start. Temp (°F) | Power Factor | THD | Rated Life (hrs) | Life In Years | Energy Cost \$/Year | Additional Information | Caution Notice | Footnotes | |
|---|-------|---------------------|------------|-------------|-------------------|-------|----------------|---------------|--------------|-------|-----------------------|--------------|-----|------------------|---------------|---------------------|------------------------|---------------------------------|-------------|------------------------|
| Self-Ballasted Lamps | | | | | | | | | | | | | | | | | | | | |
| Bright From The Start® A Shape | | | | | | | | | | | | | | | | | | | | |
|  | Med | 20 | 5.2 | 63504 | FLE20HB21/2/SWCD | 6 | 120 | 1100 | 880 | 2700K | 82 | -15 | 0.5 | <85 | 8000 | 7.3 | \$2.45 | BFTS A-Shape A21 | GE2023-6025 | 19,20,21 |
| Bright From The Start® Decorative Globes | | | | | | | | | | | | | | | | | | | | |
|  | Med | 11 | 4.6 | 60310 | FLE11HBG25SW | 6 | 120 | 500 | 400 | 2700K | 82 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.35 | BFTS Decorative Globe G25 | GE2023-6025 | 19,20,21 |
| | | 15 | 4.6 | 87432 | FLE15HBG25SW | 6 | 120 | 800 | 640 | 2700K | 82 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.84 | BFTS Decorative Globe G25 | GE2023-6025 | 19,20,21 |
| Reveal® Globes | | | | | | | | | | | | | | | | | | | | |
|  | Med | 11 | 4.6 | 61353 | FLEG25XLRVLT6 | 6 | 120 | 450 | 360 | 2490K | 70 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.32 | Reveal® Globe G25 | GE2000-2946 | 1,8,10,12,19,20,21 |
| | | 11 | 4.6 | 67464 | FLE11G25XLRVL/BX | 6 | 120 | 450 | 360 | 2490K | 70 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.32 | Reveal® Globe G25 | GE2000-2946 | 19,20,21 |
| Reveal® Reflectors | | | | | | | | | | | | | | | | | | | | |
|  | Med | 11 | 4.7 | 61354 | FLE11R20XLRVLT6 | 6 | 120 | 340 | 272 | 2490K | 70 | -10 | 0.5 | <85 | 10000 | 9.1 | \$1.32 | Reveal® Reflector R20 | GE2000-2946 | 1,8,10,12,19,20,21 |
| | | 11 | 4.7 | 67463 | FLE11R20XLRVL/BX | 6 | 120 | 340 | 272 | 2490K | 70 | -10 | 0.5 | <85 | 10000 | 9.1 | \$1.32 | Reveal® Reflector R20 | GE2024-7456 | 19,20,21 |
|  | Med | 15 | 5.3 | 61164 | FLE15R30/RVL-TP6 | 6 | 120 | 620 | 496 | 2490K | 70 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.81 | Reveal® Reflector R30 | GE2000-2946 | 1,8,10,12,19,20,21 |
| | | 15 | 5.3 | 67461 | FLE15R30/RVL/BX | 4 | 120 | 620 | 496 | 2490K | 70 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.81 | Reveal® Reflector R30 | GE2024-7456 | 19,20,21 |
| | | 15 | 5.5 | 63522 | FLE15/DVR30RVLCD | 3 | 120 | 500 | 400 | 2490K | 70 | -5 | 0.5 | <85 | 8000 | 7.3 | \$1.81 | Reveal® Reflector R30 Dimming | GE2025-1509 | 19,21 |
|  | Med | 26 | 6.5 | 61355 | FLE26R40XLRVLT6 | 6 | 120 | 1150 | 920 | 2490K | 70 | -10 | 0.5 | <85 | 10000 | 9.1 | \$3.13 | Reveal® Reflector R40 | GE2000-2946 | 1,8,10,12,19,20,21 |
| | | 26 | 6.5 | 89860 | FLE26R40RVLBXT6 | 4 | 120 | 1150 | 920 | 2490K | 70 | -10 | 0.5 | <85 | 10000 | 9.1 | \$3.13 | Reveal® Reflector R40 | GE2024-7456 | 19,20,21 |
| | | 26 | 6.6 | 67467 | FLE26R40RVL/BXHH | 4 | 120 | 1100 | 880 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$3.13 | Reveal® Reflector R40 | GE2025-1509 | 19,20,21 |
| | | 26 | 6.6 | 66668 | FLE26/DMR40RVLCD | 3 | 120 | 1100 | 880 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$3.13 | Reveal® Reflector R40 Dimming | GE2025-1509 | 19,21 |
| Reveal® Spiral® 3-Way | | | | | | | | | | | | | | | | | | | | |
|  | Med | 32 | 6.0 | 67466 | FLE32HTD3RVL/BX | 6 | 120 | 540/1440/1935 | 1548 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$3.85/\$3.01/\$1.93 | Reveal® T3 3-Way | GE2000-0950 | 19,20,21 |
| | | 32 | 6.0 | 62908 | FLE32HTD3RVL/CD | 6 | 120 | 540/1440/1935 | 1548 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.93/\$3.01/\$3.85 | Reveal® T3 3-Way Shorter Design | GE2000-0948 | 1,8,9,16,19,20,21,22 |
| Reveal® Spiral® T3 | | | | | | | | | | | | | | | | | | | | |
|  | Med | 10 | 4.1 | 75405 | FLE10HT3/2/RVL/CD | 3 | 120 | 450 | 360 | 2490K | 70 | -15 | 0.6 | <85 | 8000 | 7.3 | \$1.20 | Reveal® T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 |
| | | 10 | 4.1 | 67451 | FLE10HT3/2RVLBX2 | 6 | 120 | 450 | 360 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.20 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
| | | 10 | 4.1 | 75409 | FLE10HT3/2RVLCD2 | 3 | 120 | 450 | 360 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.20 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
| | | 10 | 4.1 | 84249 | FLE10HT3/2RVLBX2 | 6 | 120 | 450 | 360 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.20 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
|  | Med | 13 | 4.1 | 75406 | FLE13HT3/2/RVL/CD | 3 | 120 | 800 | 640 | 2490K | 70 | -15 | 0.6 | <85 | 8000 | 7.3 | \$1.57 | Reveal® T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 |
| | | 13 | 4.1 | 67452 | FLE13HT3/2RVLBX2 | 6 | 120 | 800 | 640 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.57 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
| | | 13 | 4.1 | 62906 | FLE13HT3/2RVLCD2 | 6 | 120 | 800 | 640 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.57 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
| | | 13 | 4.1 | 75411 | FLE13HT3/2RVLBX2 | 3 | 120 | 800 | 640 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.57 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
|  | Med | 20 | 4.7 | 75407 | FLE20HT3/2/RVL/CD | 3 | 120 | 1200 | 960 | 2490K | 70 | -15 | 0.6 | <85 | 8000 | 7.3 | \$2.41 | Reveal® T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 |
| | | 20 | 4.7 | 84252 | FLE20HT3/2RVLBX2 | 6 | 120 | 1200 | 960 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$2.41 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
| | | 20 | 4.7 | 67453 | FLE20HT3/2RVLBX2 | 6 | 120 | 1200 | 960 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$2.41 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
|  | Med | 26 | 5.2 | 75408 | FLE26HT3/2/RVL/CD | 3 | 120 | 1570 | 1256 | 2490K | 70 | -15 | 0.6 | <85 | 8000 | 7.3 | \$3.13 | Reveal® T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 |
| | | 26 | 5.2 | 84262 | FLE26HT3/2RVLBX4 | 3 | 120 | 1570 | 1256 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$3.13 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
| | | 26 | 5.2 | 67454 | FLE26HT3/2RVLBX2 | 6 | 120 | 1570 | 1256 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$3.13 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
| | | 26 | 5.2 | 66354 | FLE26HT3/2RVLBX4 | 3 | 120 | 1570 | 1256 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$3.13 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
| | | 26 | 5.2 | 75413 | FLE26HT3/2RVLCD2 | 3 | 120 | 1570 | 1256 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$3.13 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
| | | 26 | 5.2 | 84253 | FLE26HT3/2RVLBX2 | 6 | 120 | 1570 | 1256 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$3.13 | Reveal® T3 Spiral® | GE2000-2709 | 19,20,21,22 |
| | | 14 | 5.1 | 67465 | FLE14HT3/DMRVLBX | 4 | 120 | 800 | 640 | 2490K | 70 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.69 | Reveal® T3 Spiral® Dimming | GE2000-0951 | 19,21,22 |
| | | 26 | 5.7 | 63521 | FLE26HT3/DMRVLCD | 3 | 120 | 1560 | 1248 | 2490K | 70 | -5 | 0.5 | <85 | 10000 | 9.1 | \$3.13 | Reveal® T3 Spiral® Dimming | GE2000-0951 | 19,21,22 |
| | | 26 | 5.7 | 67468 | FLE26HT3/DMRVLBX | 4 | 120 | 1560 | 1248 | 2490K | 70 | -5 | 0.5 | <85 | 10000 | 9.1 | \$3.13 | Reveal® T3 Spiral® Dimming | GE2000-0951 | 19,21,22 |
| Reveal® Bright From The Start® A Shape | | | | | | | | | | | | | | | | | | | | |
|  | Med | 15 | 4.4 | 67459 | FLE15HB19/2RVLBX | 6 | 120 | 740 | 592 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.84 | Reveal BFTS A shape A19 | GE2023-6025 | 19,20,21 |
| | | 19 | 5.2 | 63509 | FLE19HB21/2RVLCD | 6 | 120 | 950 | 760 | 2490K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$2.33 | Reveal BFTS A shape A21 | GE2023-6025 | 19,20,21 |
| | | 25 | 5.8 | 95143 | FLE25HBA23RVLWB | 6 | 120 | 1375 | 1100 | 2490K | 70 | -15 | 0.5 | <85 | 6000 | 5.5 | \$3.07 | Reveal BFTS A shape A23 | GE2023-6025 | 19,20,21 |
| | | 25 | 5.8 | 87461 | FLE25HBA23RVLCD | 6 | 120 | 1375 | 1100 | 2490K | 70 | -15 | 0.5 | <85 | 6000 | 5.5 | \$3.07 | Reveal BFTS A shape A23 | GE2023-6025 | 19,20,21 |



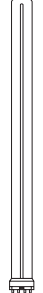
| Base | Watts | Nominal Length (in) | Order Code | Description | Case/Std. Pkg Qty | Volts | Initial Lumens | Mean Lumens | Color Temp K | CRI | Min. Start. Temp (°F) | Power Factor | THD | Rated Life (hrs) | Life In Years | Energy Cost \$/Year | Additional Information | Caution Notice | Footnotes | |
|---|---|---------------------|------------|-------------------|-------------------|------------------|----------------|-------------|--------------|-------|-----------------------|--------------|-----|------------------|---------------|---------------------|------------------------|----------------|---------------------------|---------------------------|
| Self-Ballasted Lamps (continued) | | | | | | | | | | | | | | | | | | | | |
| Spiral® T2 | | | | | | | | | | | | | | | | | | | | |
| Cand | 13 | 4.3 | 75368 | FLE13HT2/2/CAND2P | | 120 | 850 | 680 | 2700K | 82 | -15 | 0.6 | <85 | 8000 | 7.3 | \$1.57 | T2 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | |
|  | Med | 10 | 3.5 | 86241 | FLE10HT2/2/827 | 10 | 120 | 580 | 464 | 2700K | 82 | -10 | 0.5 | <85 | 12000 | 11.0 | \$1.20 | T2 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 |
| | 10 | 3.5 | 85382 | FLE10HT2/2/SW/CD | 3 | 120 | 580 | 464 | 2700K | 82 | -10 | 0.5 | <85 | 12000 | 11.0 | \$1.20 | T2 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | |
| | 10 | 3.5 | 68504 | FLE10HT2/SWXL/BX3 | 4 | 120 | 580 | 464 | 2700K | 82 | -10 | 0.5 | <85 | 12000 | 11.0 | \$1.20 | T2 Spiral® | GE2000-2709 | 19,20,21,22,25 | |
| | 10 | 3.5 | 68510 | FLE10HT2/SWXL/BX6 | 4 | 120 | 580 | 464 | 2700K | 82 | -10 | 0.5 | <85 | 12000 | 11.0 | \$1.20 | T2 Spiral® | GE2000-2709 | 19,20,21,22,25 | |
| | 10 | 3.5 | 85389 | FLE10HT2/2/SW2PK | 3 | 120 | 580 | 464 | 2700K | 82 | -10 | 0.5 | <85 | 12000 | 11.0 | \$1.20 | T2 Spiral® | GE2000-2709 | 19,20,21,22,25 | |
| | 10 | 3.7 | 72468 | FLE10HT2/6H/CWCD | 3 | 120 | 580 | 464 | 4000K | 82 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.20 | T2 Spiral® | GE2000-2709 | 19,20,21,22 | |
| | 10 | 3.5 | 68518 | FLE10HT2/D/XL/BX3 | 4 | 120 | 550 | 440 | 5000K | 82 | -10 | 0.5 | <85 | 12000 | 11.0 | \$1.20 | T2 Spiral® | GE2000-2709 | 19,20,21,22,25 | |
| | 10 | 3.7 | 72471 | FLE10HT2/6H/D/CD | 3 | 120 | 550 | 440 | 6500K | 82 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.20 | T2 Spiral® | GE2000-2709 | 19,20,21,22 | |
| | Med | 13 | 3.9 | 86256 | FLE13HT2/2/827 | 10 | 120 | 870 | 696 | 2700K | 82 | -10 | 0.5 | <85 | 12000 | 11.0 | \$1.57 | T2 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 |
| | 13 | 3.9 | 85390 | FLE13HT2/2/SW2PK | 3 | 120 | 870 | 696 | 2700K | 82 | -10 | 0.5 | <85 | 12000 | 11.0 | \$1.57 | T2 Spiral® | GE2000-2709 | 19,20,21,22,25 | |
|  | Med | 20 | 4.1 | 72880 | FLE20HT2/2/XL/CD | 3 | 120 | 1300 | 1040 | 2700K | 82 | -10 | 0.6 | <85 | 12000 | 11.0 | \$2.41 | T2 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22,25 |
| | 20 | 4.1 | 62951 | FLE20HT2/12H/D/CD | 3 | 120 | 1300 | 1040 | 5000K | 82 | -10 | 0.6 | <85 | 12000 | 11.0 | \$2.41 | T2 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22,25 | |
| | 20 | 4.1 | 72875 | FLE20HT2/2/XL/2P | 3 | 120 | 1300 | 1040 | 2700K | 82 | -10 | 0.5 | <85 | 12000 | 11.0 | \$2.41 | T2 Spiral® | GE2000-2709 | 19,20,21,22,25 | |
| | 20 | 4.1 | 68520 | FLE20HT2/D/XL/BX3 | 4 | 120 | 1300 | 1040 | 5000K | 82 | -10 | 0.5 | <85 | 12000 | 11.0 | \$2.41 | T2 Spiral® | GE2000-2709 | 19,20,21,22,25 | |
| Spiral® T3 | | | | | | | | | | | | | | | | | | | | |
|  | Med | 9 | 4.2 | 42165 | FLE9HT3/2/827 | 10 | 120 | 520 | 416 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.08 | T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 |
| | 9 | 4.2 | 42171 | FLE9HT3/2/841 | 10 | 120 | 520 | 416 | 4100K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.08 | T3 Spiral® | GE2024-7455 | 1,7,8,9,11,19,20,21,22 | |
| | 9 | 4.0 | 49906 | FLE10HT3/2/SW/CD | 12 | 120 | 520 | 416 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.08 | T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | |
| | 9 | 4.0 | 49907 | FLE10HT32SWCD2PK | 3 | 120 | 520 | 416 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.08 | T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | |
| | 9 | 4.0 | 65670 | FLE9HT3/2SW/BX4 | 3 | 120 | 520 | 416 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.08 | T3 Spiral® | GE2024-7455 | 19,20,21,22 | |
| | 9 | 4.0 | 74196 | FLE9HT3/2/SW/BX | 10 | 120 | 520 | 416 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.08 | T3 Spiral® | GE2024-7455 | 19,20,21,22 | |
| | 9 | 4.0 | 74197 | FLE9HT3/2/BX/2P | 6 | 120 | 520 | 416 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.08 | T3 Spiral® | GE2024-7455 | 19,20,21,22 | |
| | 9 | 4.0 | 73156 | FLE9HT3/2/SW5PK | 5 | 120 | 520 | 416 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.08 | T3 Spiral® | GE2024-7455 | 19,20,21,22 | |
| | 10 | 4.4 | 80936 | FLE10HT3/2/XL | 10 | 120 | 550 | 440 | 2700K | 80 | -15 | 0.6 | <85 | 12000 | 11.0 | \$1.20 | T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | |
| |  | Med | 13 | 4.5 | 16459 | FLE13HT3/2/SW/2P | 3 | 120 | 825 | 660 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.57 | T3 Spiral® | GE2000-0948 |
| 13 | | 4.4 | 42159 | FLE13HT3/2/827 | 10 | 120 | 825 | 660 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.57 | T3 Spiral® | GE2024-7455 | 1,7,8,9,11,19,20,21,22 | |
|  | Med | 14 | 4.5 | 94543 | FLE14HT3/2/827 | 10 | 120 | 950 | 760 | 2700K | 82 | -10 | 0.6 | <85 | 10000 | 9.1 | \$1.69 | T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22,25 |
| | 14 | 4.5 | 94542 | FLE14HT3/2/841 | 10 | 120 | 950 | 760 | 4100K | 82 | -10 | 0.6 | <85 | 10000 | 9.1 | \$1.69 | T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22,25 | |
| | 14 | 4.5 | 89091 | FLE15HT3/2/D/CD | 3 | 120 | 900 | 720 | 5000K | 82 | -10 | 0.6 | <85 | 10000 | 9.1 | \$1.69 | T3 Spiral® | | 19,20,21,22,25 | |
| | 14 | 4.5 | 65425 | FLE14HT3/2-PK4/6 | 6 | 120 | 950 | 760 | 4100K | 82 | -10 | 0.5 | <85 | 10000 | 9.1 | \$1.69 | T3 Spiral® | GE2000-2709 | 19,20,21,22,25 | |
| | 14 | 4.5 | 67445 | FLE14HT3/41BX2HH | 6 | 120 | 950 | 760 | 4100K | 82 | -10 | 0.5 | <85 | 10000 | 9.1 | \$1.69 | T3 Spiral® | GE2000-2709 | 19,20,21,22,25 | |
| | 14 | 4.5 | 64005 | FLE14HT3/2DBX2/6 | 6 | 120 | 900 | 720 | 5000K | 82 | -10 | 0.5 | <85 | 10000 | 9.1 | \$1.69 | T3 Spiral® | GE2000-2709 | 19,20,21,22,25 | |
| | 15 | 4.8 | 80937 | FLE15HT3/2/XL/SW | 10 | 120 | 950 | 760 | 2700K | 80 | -15 | 0.6 | <85 | 12000 | 11.0 | \$1.81 | T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | |
| | 15 | 4.8 | 47435 | FLE15HT3/2/XL/CD | 12 | 120 | 950 | 760 | 2700K | 80 | -15 | 0.6 | <85 | 12000 | 11.0 | \$1.81 | T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | |
| | 15 | 4.9 | 64801 | FLE15HT3/2SX/827 | 6 | 120 | 975 | 780 | 2700K | 82 | -15 | 0.5 | <85 | 15000 | 13.7 | \$1.81 | T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22,25 | |
| | 15 | 4.9 | 69659 | FLE15HT3XXLL/5BX | 3 | 120 | 975 | 780 | 2700K | 82 | -15 | 0.5 | <85 | 15000 | 13.7 | \$1.81 | T3 Spiral® | GE2000-2709 | 19,20,21,22,25 | |
| |  | Med | 20 | 4.4 | 15834 | FLE20HT3/2/827 | 10 | 120 | 1300 | 1040 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$2.41 | T3 Spiral® | GE2000-0948 |
| 20 | | 4.4 | 15516 | FLE20HT3/2/SW/CD | 12 | 120 | 1300 | 1040 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$2.41 | T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22,25 | |
| 20 | | 4.4 | 25186 | FLE20HT3/2/841 | 10 | 120 | 1300 | 1040 | 4100K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$2.41 | T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22,25 | |
| 20 | | 5.3 | 80888 | FLE20HT3/2/XL827 | 10 | 120 | 1200 | 960 | 2700K | 80 | -15 | 0.6 | <85 | 12000 | 11.0 | \$2.41 | T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | |
| 20 | | 4.8 | 64802 | FLE20HT3/2SX/827 | 6 | 120 | 1300 | 1040 | 2700K | 82 | -15 | 0.5 | <85 | 15000 | 13.7 | \$2.41 | T3 Spiral® | GE2000-0948 | 1,7,8,9,11,19,20,21,22,25 | |
| 20 | | 4.7 | 71764 | FLE20HT3/2/6S/TP | 6 | 120 | 1235 | 988 | 5000K | 82 | -15 | 0.6 | <85 | 8000 | 7.3 | \$2.41 | T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | |
| 20 | | 4.4 | 89094 | FLE20HT3/2/D/CD | 12 | 120 | 1300 | 1040 | 5000K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$2.41 | T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22,25 | |
| 20 | | 4.4 | 74201 | FLE20HT3/2/BX2PK | 6 | 120 | 1300 | 1040 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$2.41 | T3 Spiral® | GE2000-2709 | 19,20,21,22,25 | |
| 20 | | 4.8 | 69656 | FLE20HT3XXLL/2BX | 3 | 120 | 1300 | 1040 | 2700K | 82 | -15 | 0.5 | <85 | 15000 | 13.7 | \$2.41 | T3 Spiral® | GE2000-2709 | 19,20,21,22,25 | |

Compact Fluorescent Lamps

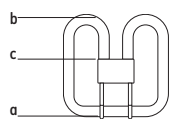
| Base | Watts | Nominal Length (in) | Order Code | Description | Case/Std. Pkg Qty | Volts | Initial Lumens | Mean Lumens | Color Temp K | CRI | Min. Start. Temp (°F) | Power Factor | THD | Rated Life (hrs) | Life In Years | Energy Cost \$/Year | Additional Information | Caution Notice | Footnotes | | |
|---|---|---------------------|------------|-------------------|--------------------------------------|------------------|----------------|---------------|--------------|-------|-----------------------|--------------|-----|------------------|---------------|------------------------------|------------------------------|--------------------|---------------------------|-------------------------|----------------------|
| Self-Ballasted Lamps (continued) | | | | | | | | | | | | | | | | | | | | | |
| Spiral® T3 (continued) | | | | | | | | | | | | | | | | | | | | | |
|  | 20 | 4.4 | 71284 | FLE20HT3/2/SW6PK | 6 | 120 | 1300 | 1040 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$2.41 | T3 Spiral® | GE2000-2709 | 19,20,21,22,25 | | |
| | 20 | 4.4 | 65672 | FLE20HT3/2/SW/BX4 | 3 | 120 | 1300 | 1040 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$2.41 | T3 Spiral® | GE2000-2709 | 19,20,21,22,25 | | |
| | 20 | 4.4 | 74200 | FLE20HT3/2/SW/BX | 10 | 120 | 1300 | 1040 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$2.41 | T3 Spiral® | GE2000-2709 | 19,20,21,22,25 | | |
| | 20 | 4.4 | 76993 | FLE20HT3/2/CB/BX | 10 | 120 | 1300 | 1040 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$2.41 | T3 Spiral® | GE2000-2709 | 19,20,21,22,25 | | |
| | 20 | 4.4 | 97249 | FLE20HT3/2/SW5PK | 5 | 120 | 1300 | 1040 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$2.41 | T3 Spiral® | GE2000-2709 | 19,20,21,22,25 | | |
| | 20 | 4.4 | 97690 | FLE20HT3/2/SWBX3 | 4 | 120 | 1300 | 1040 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$2.41 | T3 Spiral® | GE2000-2709 | 19,20,21,22,25 | | |
| | 20 | 4.4 | 49587 | FLE20HT32SWCD3PK | 3 | 120 | 1300 | 1040 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$2.41 | T3 Spiral® | GE2000-2709 | 19,20,21,22,25 | | |
|  | 20 | 4.4 | 64006 | FLE20HT3/2/DBX2/6 | 6 | 120 | 1300 | 1040 | 5000K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$2.41 | T3 Spiral® | GE2000-2709 | 19,20,21,22,25 | | |
| | Med | 23 | 5.1 | 80889 | FLE23HT3/2/XL827 | 10 | 120 | 1600 | 1280 | 2700K | 80 | -15 | 0.6 | <85 | 12000 | 11.0 | \$2.77 | T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | |
| | 23 | 4.7 | 42164 | FLE23HT3/2/827 | 10 | 120 | 1650 | 1320 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$2.77 | T3 Spiral® | GE2000-0948 | 1,7,8,9,11,19,20,21,22 | | |
| | 23 | 4.8 | 15517 | FLE23HT3/2/SW/CD | 12 | 120 | 1600 | 1280 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$2.77 | T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | | |
| | 23 | 4.8 | 94546 | FLE23HT3/2/841 | 10 | 120 | 1600 | 1280 | 4000K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$2.77 | T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | | |
| Med | 23 | 4.8 | 89095 | FLE26HT3/2/D/CD | 12 | 120 | 1600 | 1280 | 6500K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$2.77 | T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | | |
|  | Med | 26 | 4.7 | 80890 | FLE26HT3/2/XL827 | 10 | 120 | 1700 | 1360 | 2700K | 80 | -15 | 0.6 | <85 | 12000 | 11.0 | \$3.13 | T3 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | |
| Spiral® T3 Dimming | | | | | | | | | | | | | | | | | | | | | |
|  | Med | 14 | 5.0 | 66662 | FLE14HT3/2DM/BX | 3 | 120 | 950 | 760 | 2700K | 82 | -10 | 0.5 | <85 | 10000 | 9.1 | \$1.69 | T3 Spiral® Dimming | GE2000-0951 | 19,21,22,25 | |
| | 26 | 5.7 | 66663 | FLE26HT3/2DM/BX | 3 | 120 | 1700 | 1360 | 2700K | 82 | -10 | 0.5 | <85 | 10000 | 9.1 | \$3.13 | T3 Spiral® Dimming | GE2010-9353 | 19,21,22,24 | | |
| Spiral® T4 and T5 Hi Lumen | | | | | | | | | | | | | | | | | | | | | |
|  | Med | 29 | 5.2 | 81514 | FLE29HLX/2XL/827 | 10 | 120 | 2200 | 1760 | 2700K | 80 | -15 | 0.6 | <85 | 12000 | 11.0 | \$3.49 | T4 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | |
| | 32 | 6.3 | 24684 | FLE32HLX/2/SW/BX | 12 | 120 | 2100 | 1680 | 2700K | 80 | -15 | 0.5 | <85 | 8000 | 7.3 | \$3.85 | T4 Spiral® | GE2000-2709 | 19,20,21,22 | | |
| | 42 | 7.0 | 80891 | FLE42HLX/2/XL827 | 10 | 120 | 2730 | 2184 | 2700K | 82 | -15 | 0.6 | <85 | 12000 | 11.0 | \$5.06 | T4 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22,25 | | |
| | 42 | 7.0 | 97728 | FLE42HLX/2/SW/BX | 4 | 120 | 2730 | 2184 | 2700K | 82 | -15 | 0.5 | <85 | 12000 | 11.0 | \$5.06 | T4 Spiral® | GE2000-2709 | 19,20,21,22,25 | | |
| | 55 | 5.5 | 78965 | FLE55HT5/2/SW/BX | 4 | 120 | 3800 | 3040 | 2700K | 82 | -15 | 0.6 | <85 | 8000 | 7.3 | \$6.62 | T5 Spiral® | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | | |
| Spiral® 3-Way | | | | | | | | | | | | | | | | | | | | | |
|  | Med | 26 | 5.7 | 77123 | FLE26HT3/2D/3BX | 6 | 120 | 1750/1150/600 | 1400 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.57/ \$2.29/ \$3.13 | T3 Spiral®, 3-way | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | |
| | 26 | 5.7 | 77124 | FLE26HT3/2D3CD | 3 | 120 | 1750/1150/600 | 1400 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.57/ \$2.29/ \$3.13 | T3 Spiral®, 3-way | GE2000-0948 | 1,7,8,9,10,19,20,21,22 | | |
|  | Med | 32 | 5.8 | 78952 | FLE32HT3/2D3/BX | 6 | 120 | 600/1600/2150 | 1720 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.93/ \$3.01/ \$3.85 | T3 Spiral®, 3-way | GE2000-0948 | 1,8,9,16,19,20,21,22,25 | |
| | 32 | 6.0 | 62070 | FLE32HT3/2D3CWBX | 6 | 120 | 600/1600/2150 | 1720 | 4000K | 82 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.93/ \$3.01/ \$3.85 | T3 Spiral®, 3-way | GE2000-0948 | 1,7,9,10,19,20,21,22 | | |
| | 32 | 6.0 | 63517 | FLE32HT3/2D3/DBX | 6 | 120 | 540/1440/1935 | 1548 | 6500K | 70 | -15 | 0.5 | <85 | 8000 | 7.3 | \$1.93/ \$3.01/ \$3.85 | T3 Spiral®, 3-way | GE2000-0950 | 19,20,21,22 | | |
| | 32 | 5.8 | 63482 | FLE32HT3/2D3/CD | 6 | 120 | 600/1600/2150 | 1720 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.93/ \$3.01/ \$3.85 | T3 Spiral®, 3-way | GE2000-0950 | 19,20,21,25 | | |
| Spiral® GU 24 | | | | | | | | | | | | | | | | | | | | | |
|  | Med | 10 | 3.5 | 76135 | FLE10HT3/2GU24CD | 3 | 120 | 550 | 440 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.20 | T3 GU 24 Base | GE2000-0948 | 1,8,9,10,19,20,21,22 | |
| | 15 | 4.1 | 75367 | FLE15HT3/2GU24CD | 3 | 120 | 1000 | 800 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.81 | T3 GU 24 Base | GE2000-0948 | 1,8,9,10,19,20,21,22 | | |
| | 20 | 4.1 | 76136 | FLE20HT3/2GU24CD | 3 | 120 | 1200 | 960 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$2.41 | T3 GU 24 Base | GE2000-0948 | 1,8,9,10,19,20,21,22 | | |
| | 26 | 4.6 | 76137 | FLE26HT3/2GU24CD | 3 | 120 | 1750 | 1400 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$3.13 | T3 GU 24 Base | GE2000-0948 | 1,8,9,10,19,20,21,22 | | |
| Reflectors/Indoor PAR | | | | | | | | | | | | | | | | | | | | | |
|  | Med | 26 | 6.6 | 66667 | FLE26PAR38DM/BX | 3 | 120 | 1300 | 1040 | 2700K | 82 | -15 | 0.5 | <85 | 8000 | 7.3 | \$3.13 | PAR38 Dimming | GE2025-1509 | 19,21,23 | |
| | 11 | 4.2 | 78948 | FLE11/2/R20/D/CD | 3 | 120 | 370 | 296 | 6500K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | Reflector R20 | GE2000-2946 | 1,8,9,10,12,19,20,21 | | |
| | 11 | 4.7 | 80892 | FLE11/2/R20XL827 | 10 | 120 | 400 | 320 | 2700K | 80 | -10 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | Reflector R20 | GE2000-2946 | 1,8,9,10,12,19,20,21 | | |
| | 11 | 4.7 | 47477 | FLE11/2/R20XLCD | 12 | 120 | 400 | 320 | 2700K | 80 | -10 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | Reflector R20 | GE2000-2946 | 1,8,9,10,12,19,20,21 | | |
| | 11 | 4.7 | 24691 | FLE11/2R20XLSWCD | 3 | 120 | 400 | 320 | 2700K | 80 | -10 | 0.5 | <85 | 10000 | 9.1 | \$1.32 | Reflector R20 | GE2024-7456 | 19,20,21 | | |
| | 11 | 4.7 | 85278 | FLE11/2/R20SW/BX | 6 | 120 | 400 | 320 | 2700K | 80 | -10 | 0.5 | <85 | 10000 | 9.1 | \$1.32 | Reflector R20 | GE2024-7456 | 19,20,21 | | |
| | 11 | 4.7 | 76131 | FLE11/2/R20XL2P | 3 | 120 | 400 | 320 | 2700K | 80 | -10 | 0.5 | <85 | 10000 | 9.1 | \$1.32 | Reflector R20 | GE2024-7456 | 19,20,21 | | |
| | 11 | 4.2 | 85279 | FLE11/2/R20D/BX | 6 | 120 | 370 | 296 | 6500K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.32 | Reflector R20 | GE2000-2946 | 19,20,21 | | |
| |  | Med | 15 | 5.3 | 78950 | FLE15/2/R30/D/CD | 3 | 120 | 650 | 520 | 6500K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.81 | Reflector R30 | GE2000-2946 | 1,8,9,10,12,19,20,21 |
| | | 16 | 5.3 | 20708 | FLE15/2/R30/SWCD FLE16/2/R30/SWCD | 12 | 120 | 750 | 600 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.93 | Reflector R30 | GE2024-7456 | 1,8,9,10,12,19,20,21 | |
| 16 | | 5.3 | 80893 | FLE16/2/R30XL827 | 10 | 120 | 750 | 600 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.93 | Reflector R30 | GE2000-2946 | 1,8,9,10,12,19,20,21 | | |
| 16 | | 5.3 | 47478 | FLE16/2/R30XLCD | 12 | 120 | 750 | 600 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.93 | Reflector R30 | GE2000-2946 | 1,8,9,10,12,19,20,21 | | |

| Base | Watts | Nominal Length (in) | Order Code | Description | Case/Std. Pkg Qty | Volts | Initial Lumens | Mean Lumens | Color Temp K | CRI | Min. Start. Temp (°F) | Power Factor | THD | Rated Life (hrs) | Life In Years | Energy Cost \$/Year | Additional Information | Caution Notice | Footnotes |
|---|-------|---------------------|------------|--|-------------------|-------|----------------|-------------|--------------|-----|-----------------------|--------------|-----|------------------|---------------|---------------------|-----------------------------------|----------------|----------------------|
| Self-Ballasted Lamps (continued) | | | | | | | | | | | | | | | | | | | |
| Reflectors/Indoor PAR (continued) | | | | | | | | | | | | | | | | | | | |
|  | 16 | 5.3 | 72984 | FLE16/2/R30/2P | 3 | 120 | 750 | 600 | 2700K | 80 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.93 | Reflector R30 | GE2024-7456 | 19,20,21 |
| | 15 | 5.5 | 66664 | FLE15/2DMR30/BX | 3 | 120 | 550 | 440 | 3000K | 82 | -5 | 0.5 | <85 | 8000 | 7.3 | \$1.81 | Reflector R30 Dimming | GE2025-1509 | 19,21 |
| Outdoor | | | | | | | | | | | | | | | | | | | |
|  | 14 | 5.1 | 49894 | FLE14/2/TC14SWCD FLE14/2/TC16SW/CD | 3 | 120 | 750 | 600 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.69 | Post Light | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 14 | 4.9 | 49895 | FLE11/2/TC14BUGCD FLE14/2/TC16BUGCD | 3 | 120 | 750 | 600 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.69 | Bug Yellow Post Light | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 14 | 4.9 | 47464 | FLE14/2/TC16/BUG | 12 | 120 | 750 | 600 | 2700K | 80 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.69 | Bug Yellow Post Light | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 14 | 5.1 | 85384 | FLE14/2/TC16SWCD | 12 | 120 | 750 | 600 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.69 | Bullet Shape | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 24 | 5.4 | 78964 | FLE24/2/PAR38FLCD | 3 | 120 | 1185 | 948 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$2.89 | Par 38 Flat Lens | GE2010-3449 | 1,8,9,12,16,19,20,21 |
|  | 26 | 5.9 | 21739 | FLE26/2/PAR38/CD | 3 | 120 | 1300 | 1040 | 2700K | 80 | -10 | 0.6 | <85 | 10000 | 9.1 | \$3.13 | Par 38 Glass Reflector | GE2010-3449 | 1,8,9,12,16,19,20,21 |
| | 26 | 5.9 | 80895 | FLE26/2/PAR38/XL | 6 | 120 | 1300 | 1040 | 2700K | 80 | -10 | 0.6 | <85 | 10000 | 9.1 | \$3.13 | Par 38 Glass Reflector | GE2010-3449 | 1,8,9,12,16,19,20,21 |
| | 26 | 5.9 | 47483 | FLE26/2/PAR38/XCD | 3 | 120 | 1300 | 1040 | 2700K | 80 | -10 | 0.6 | <85 | 10000 | 9.1 | \$3.13 | Par 38 Glass Reflector | GE2010-3449 | 1,8,9,12,16,19,20,21 |
| | 26 | 5.9 | 82004 | FLE26/2/PAR38/BX | 6 | 120 | 1300 | 1040 | 2700K | 80 | -10 | 0.5 | <85 | 10000 | 9.1 | \$3.13 | Par 38 Glass Reflector | GE2010-3449 | 19,20,21,23 |
| | 26 | 5.9 | 73157 | FLE26/2/PAR382P | 3 | 120 | 1300 | 1040 | 2700K | 80 | -10 | 0.5 | <85 | 10000 | 9.1 | \$3.13 | Par 38 Glass Reflector | GE2010-3449 | 19,20,21,23 |
| Decorative Ceiling Fan Medium Base | | | | | | | | | | | | | | | | | | | |
|  | 11 | 4.4 | 78939 | FLE11/2/A17/D/CD | 3 | 120 | 460 | 368 | 6500K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | A-Line Shape A17 | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 11 | 4.4 | 78940 | FLE11/2/A17/D/3P | 3 | 120 | 460 | 368 | 6500K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | A-Line Shape A17 | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 11 | 4.4 | 47486 | FLE11/2/A17XL/CD | 12 | 120 | 500 | 400 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | A-Line Shape A17 | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 11 | 4.4 | 49687 | FLE11/2/A17XL2PK | 3 | 120 | 500 | 400 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.32 | A-Line Shape A17 | GE2000-2946 | 19,20,21 |
| Decorative Ceiling Fan Candelabra Base | | | | | | | | | | | | | | | | | | | |
| Cand | 11 | 4.4 | 78937 | FLE11/2/A17CB/CD | 3 | 120 | 500 | 400 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | A-Line Shape A17, Candelabra Base | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 11 | 4.4 | 78938 | FLE11/2/A17CB/3P | 3 | 120 | 500 | 400 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | A-Line Shape A17, Candelabra Base | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 11 | 4.3 | 78941 | FLE11/2/A17CBD/CD | 3 | 120 | 460 | 368 | 6500K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | A-Line Shape A17, Candelabra Base | GE2000-2946 | 1,8,10,12,19,20,21 |
| Decorative A Shapes | | | | | | | | | | | | | | | | | | | |
|  | 11 | 4.1 | 89622 | FLE11/2/A19XL | 10 | 120 | 500 | 400 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | A-Line Shape A19 | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 15 | 4.5 | 89632 | FLE15/2/A19XL | 10 | 120 | 825 | 660 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.81 | A-Line Shape A19 | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 20 | 5.6 | 89634 | FLE20/2/A19XL | 10 | 120 | 1100 | 880 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$2.41 | A-Line Shape A19 | GE2024-7456 | 1,8,10,12,19,20,21 |
| | 15 | 4.8 | 47487 | FLE15/2/A21XL/CD | 12 | 120 | 800 | 640 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.81 | A-Line Shape A21 | GE2000-2946 | 1,8,10,12,19,20,21 |
| Decorative Bullet | | | | | | | | | | | | | | | | | | | |
| Med | 20 | 5.3 | 89635 | FLE20/2/T19XL | 10 | 120 | 1100 | 880 | 2700K | 82 | -15 | 0.6 | <85 | 8000 | 7.3 | \$2.41 | Bullet Shape | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 26 | 5.9 | 89636 | FLE26/2/T21XL | 10 | 120 | 1350 | 1080 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$3.13 | Bullet Shape | GE2000-2946 | 1,8,10,12,19,20,21 |
| Decorative Candle Candelabra Base | | | | | | | | | | | | | | | | | | | |
|  | 9 | 5.5 | 85388 | FLE9/2/CAC/SW/CD | 12 | 120 | 400 | 320 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.08 | Candle Shape, Candelabra Base | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 9 | 5.5 | 16105 | FLE9/2/CAC/XL/B27 | 10 | 120 | 400 | 320 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.08 | Candle Shape, Candelabra Base | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 9 | 4.3 | 60299 | FLE9/3/CAC/SWBX3 | 4 | 120 | 380 | 304 | 2700K | 82 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.08 | Candle Shape, Candelabra Base | GE2000-2946 | 19,20,21 |
| | 9 | 4.3 | 60295 | FLE9/3/CAC/SSBX3 | 4 | 120 | 380 | 304 | 5000K | 82 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.08 | Candle Shape, Candelabra Base | GE2000-2946 | 19,20,21 |
| | 14 | 5.2 | 60300 | FLE14/3/CAC/SWBX3 | 4 | 120 | 650 | 520 | 2700K | 82 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.69 | Candle Shape, Candelabra Base | GE2000-2946 | 19,20,21 |
| | 14 | 5.2 | 60296 | FLE14/3/CAC/SSBX3 | 4 | 120 | 650 | 520 | 5000K | 82 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.69 | Candle Shape, Candelabra Base | GE2000-2946 | 19,20,21 |
| | 14 | 5.2 | 60296 | FLE14/3/CAC/SSBX3 | 4 | 120 | 650 | 520 | 5000K | 82 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.69 | Candle Shape, Candelabra Base | GE2000-2946 | 19,20,21 |
| Decorative Candle Medium Base | | | | | | | | | | | | | | | | | | | |
|  | 9 | 5.4 | 47488 | FLE9/2/CAM/XL/CD | 12 | 120 | 430 | 344 | 2700K | 80 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.08 | Candle Shape, Med Base | GE2000-2946 | 1,8,10,12,19,20,21 |
| | 9 | 4.8 | 60297 | FLE9/3/CAM/SWBX3 | 4 | 120 | 380 | 304 | 2700K | 82 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.08 | Candle Shape, Med Base | GE2000-2946 | 19,20,21 |
| | 9 | 4.8 | 60292 | FLE9/3/CAM/SSBX3 | 4 | 120 | 380 | 304 | 5000K | 82 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.08 | Candle Shape, Med Base | GE2000-2946 | 19,20,21 |
| | 9 | 5.4 | 24692 | FLE9/2/CAM/SW/CD | 12 | 120 | 430 | 344 | 2700K | 82 | -15 | 0.5 | <85 | 6000 | 5.5 | \$1.08 | Candle Shape, Med Base | GE2000-2946 | 19,20,21 |
| | 9 | 5.5 | 79068 | FLE9/2/CAC/XL2PK | 3 | 120 | 430 | 344 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.08 | Candle Shape, Med Base | GE2000-2946 | 19,20,21 |
| | 14 | 5.4 | 60298 | FLE14/3/CAM/SWBX3 | 4 | 120 | 650 | 520 | 2700K | 82 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.69 | Candle Shape, Med Base | GE2000-2946 | 19,20,21 |
| | 14 | 5.4 | 60294 | FLE14/3/CAM/SSBX3 | 4 | 120 | 650 | 520 | 5000K | 82 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.69 | Candle Shape, Med Base | GE2000-2946 | 19,20,21 |
| | 14 | 5.4 | 60294 | FLE14/3/CAM/SSBX3 | 4 | 120 | 650 | 520 | 5000K | 82 | -10 | 0.5 | <85 | 8000 | 7.3 | \$1.69 | Candle Shape, Med Base | GE2000-2946 | 19,20,21 |

Compact Fluorescent Lamps

| Base | Watts | Nominal Length (in) | Order Code | Description | Case/Std. Pkg Qty | Volts | Initial Lumens | Mean Lumens | Color Temp K | CRI | Min. Start. Temp (°F) | Power Factor | THD | Rated Life (hrs) | Life In Years | Energy Cost \$/Year | Additional Information | Caution Notice | Footnotes | | |
|--|-------|---------------------|------------|-------------|-------------------|-------|----------------|-------------|--------------|-------|-----------------------|--------------|-----|------------------|---------------|---------------------|------------------------|--|--|--------------------|--|
| Self-Ballasted Lamps (continued) | | | | | | | | | | | | | | | | | | | | | |
| Decorative Globes | | | | | | | | | | | | | | | | | | | | | |
|  | Med | 9 | 3.2 | 74587 | FLE9/3/G18/3PK | 3 | 120 | 360 | 288 | 2700K | 80 | 0 | 0.5 | <85 | 8000 | 7.3 | \$1.08 | Globe G18 | GE2000-2946 | 19,20,21 | |
| | | 9 | 3.2 | 74586 | FLE9/3/G18/CD | 3 | 120 | 360 | 288 | 2700K | 80 | 0 | 0.5 | <85 | 8000 | 7.3 | \$1.08 | Globe G18 | GE2000-2946 | 19,20,21 | |
| | | 11 | 4.6 | 89629 | FLE11/2/G25XL | 10 | 120 | 500 | 400 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | Globe G25 | GE2000-2946 | 1,8,10,12,19,20,21 | |
| | | 11 | 4.6 | 47484 | FLE11/2/G25XL/CD | 12 | 120 | 500 | 400 | 2700K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | Globe G25 | GE2000-2946 | 1,8,10,12,19,20,21 | |
| | | 11 | 4.6 | 78946 | FLE11/2/G25/D/CD | 3 | 120 | 450 | 360 | 6500K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | Globe G25 | GE2000-2946 | 1,8,10,12,19,20,21 | |
| | | 11 | 4.6 | 78947 | FLE11/2/G25/D/3P | 3 | 120 | 450 | 360 | 6500K | 82 | -15 | 0.6 | <85 | 10000 | 9.1 | \$1.32 | Globe G25 | GE2000-2946 | 1,8,10,12,19,20,21 | |
| | | 11 | 4.6 | 85392 | FLE11/2/G25XL3PK | 3 | 120 | 500 | 400 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.32 | Globe G25 | GE2000-2946 | 19,20,21 | |
| | | 11 | 4.6 | 89096 | FLE11/2/G25XL2PK | 3 | 120 | 500 | 400 | 2700K | 82 | -15 | 0.5 | <85 | 10000 | 9.1 | \$1.32 | Globe G25 | GE2000-2946 | 19,20,21 | |
| Specialty | | | | | | | | | | | | | | | | | | | | | |
| Colored Spiral® | | | | | | | | | | | | | | | | | | | | | |
|  | Med | 13 | 4.9 | 78957 | FLE13HT3/2/BL | 6 | 120 | NA | NA | NA | NA | 5 | 0.6 | <85 | 8000 | 7.3 | \$1.57 | T3, Blacklight, Boxed | GE2000-0948 | 1,8,9,10 | |
| | | 13 | 4.9 | 78958 | FLE13HT3/2/ORANGE | 6 | 120 | NA | NA | NA | NA | 5 | 0.6 | <85 | 8000 | 7.3 | \$1.57 | T3, Orange, Boxed | GE2000-0948 | 1,8,9,10 | |
| | | 13 | 4.9 | 78959 | FLE13HT3/2/YELLOW | 6 | 120 | NA | NA | NA | NA | 5 | 0.6 | <85 | 8000 | 7.3 | \$1.57 | T3, Yellow, Boxed | GE2000-0948 | 1,8,9,10 | |
| Film and TV Lighting HLBX 4-Pin | | | | | | | | | | | | | | | | | | | | | |
|  | 2G11 | 55 | 20.7 | 41873 | F55BX/STUDIOBX56 | 40 | | 4100 | | 5600 | 89 | | | | | | | High color rendering. Ideal for TV studios, live broadcasts. Color tuned to match tungsten and daylight light sources. | | | |
| | | 55 | 20.7 | 41903 | F55BX/CINPLUS/32 | 40 | | 2400 | | 3200 | 92 | | | | 2000 | | | | High color rendering. Soft light used in film applications. GEL free light source. Matches the color spectrum of film. LB and CC +/-5. | | |
| | | 55 | 20.7 | 41911 | F55BX/CINPLUS/55 | 40 | | 2400 | | 5500 | 95 | | | | 2000 | | | | High color rendering. Soft light used in film applications. GEL free light source. Matches the color spectrum of film. LB and CC +/-5. | | |

Footnotes

- Fluorescent lamp lumens decline during life.
- Based on 60Hz reference circuit.
- 

10-watt, 16-watt and 28-watt 2D® lamps may be operated in any position. 21-watt, 38-watt, 39-watt and 55-watt 2D® lamps must be used with the leg marked (a) in the diagram below the bend (b), in order to avoid overheating the end of the cap marked (c).
- Life ratings for the F18BX preheat lamps are based on operating the lamp at 3 hrs. per start on a preheat type circuit. Operation on rapid start and instant start ballasts is not recommended.
- Cold cathode resistance is approximately 6.0 Ohms.
- 4-Pin lamp minimum starting temperature is a function of the ballast. Most ballasts are rated with a minimum starting temperature of 50°F (10°C). Ballasts are also available that provide reliable starting to 0°F (-18°C) and -20°F (-29°C).
- Most one-piece self-ballasted lamps for incandescent sockets and plug-in lamps with screw-in adapters do not work with clip-on shades.
- Lumens on one-piece self-ballasted lamp systems are measured base up.
- Best performance if operated base up and at 77°F (25°C) ambient temperature.
- Use only on 120V, 60Hz circuits. Do not use on dimming circuits, photocells or timers. Do not use in wet locations.
- Adapters rated at 40,000 hours life.
- Amalgam products experience stable brightness over a wider temperature range and in various operating positions.
- Life ratings are based on operating the lamp at 3 hrs. per start on a rapid start type ballast. Life rating on a preheat or instant start ballast is 25% lower.
- Use only on 120V, 60Hz circuits. Do not use on with photocells or timers. Do not use in wet locations.
- These lamps are only recommended for use with single-lamp ballasts or parallel-wired 2-lamp ballasts.
- UL Listed for wet locations. Use only on 120V, 60Hz circuits. Do not use on dimming circuits, photocells or timers.
- Max. bulb wall temperature not to exceed 180°C. Consult GE sales representative for further information.
- Life ratings are based on operating the lamp on a high frequency electronic rapid start type ballast.
- This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz. Not intended for use with emergency exit fixtures or lights.
Use only on 120V 60 Hz circuits.
When using CFL with motion sensor, preset "on" time on the device as long as possible to avoid frequent switching. (Otherwise lamp life will be decreased significantly)
- Not intended for use with dimmers. Some electronic timer and photosensor devices contain dimming circuitry, so before using them, check with its manufacturer to ensure compatibility with CFL bulbs.

- RISK OF ELECTRICK SHOCK**
DO NOT USE WHERE DIRECTLY EXPOSED TO WATER
Do not open - no user serviceable parts inside
- Lamp may shatter and cause injury if broken
Remove and install by grasping only plastic portion of the lamp
- SUITABLE FOR WET LOCATION
- SUITABLE FOR USE IN ENCLOSED LUMINAIRES
- NOT FOR USE IN ENCLOSED FIXTURE

Caution Notices

151

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

GE2000-0948

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open—no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz. Not intended for use with emergency exit fixture or lights, electronic timers, photocells, or with dimmers

GE2000-0950

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open—no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz. Not intended for use with emergency exit fixtures or lights, or with dimmers. Not for use in enclosed fixtures.

GE2000-0951

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open—no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz. Not intended for use with emergency exit fixtures or lights, or with dimmers. Not for use in enclosed fixtures.

Compact Fluorescent Lamps

Caution Notices (continued)

GE2000-2709

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz. Not intended for use with emergency exit fixtures or lights, or with dimmers. Not for use in enclosed fixtures.

GE2000-2946

⚠ CAUTION

Risk of electric shock

- Do not open—no user serviceable parts inside
- Do not use where directly exposed to water or outdoors without an enclosed fixture

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, or with dimmers.

GE2010-3449

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open—no user serviceable parts inside
- Use indoors only

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, in totally enclosed recessed fixtures, or with dimmers. Added weight may cause instability of free-standing portable lamps. Use only with portable lamps in which the distance from the bottom of the base to the top of the lamp holder does not exceed three times the base width. Use only with portable lamps which are provided with lamp shades.

GE2010-9353

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz. Not intended for use with emergency exit fixtures or lights, or with dimmers. Not for use in enclosed fixtures.

GE2023-6025

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz. Not intended for use with emergency exit fixtures or lights, or with dimmers. Not for use in enclosed fixtures.

GE2024-7455

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz. Not intended for use with emergency exit fixtures or lights, or with dimmers.

GE2024-7456

⚠ CAUTION

Risk of electric shock

- Do not open—no user serviceable parts inside
- Do not use where directly exposed to water or outdoors without an enclosed fixture

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, dimmers, or in totally enclosed recessed fixtures.

GE2025-1509

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open - no user serviceable parts inside

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz. Not intended for use with emergency exit fixtures or lights. Performance ratings are based on base up orientation.

Do not operate this product in ambient temperatures exceeding xx°C

Cross-Reference

| GE Description | GE Product Code | Generic Description | Osram/Sylvania Description | Philips Description |
|--------------------------------|-----------------|---|----------------------------|----------------------------|
| Order This GE Lamp | | If you currently use these lamps | | |
| Low Wattage Biax® 2-Pin | | | | |
| F5BX/827/ECO | 97551 | CFT5W/G23/827 | CF5DS/827/ECO | PL-S 5W/827/2P/Alto |
| F5BX/841/ECO | 97553 | CFT5W/G23/841 | CF5DS/841/ECO | PL-S 5W/841/2P/Alto |
| F7BX/827/ECO | 97554 | CFT7W/G23/827 | CF7DS/827/ECO | PL-S 7W/827/2P/Alto |
| F7BX/835/ECO | 97556 | CFT7W/G23/835 | CF7DS/835/ECO | PL-S 7W/835/2P/Alto |
| F7BX/841/ECO | 97557 | CFT7W/G23/841 | CF7DS/841/ECO | PL-S 7W/841/2P/Alto |
| F9BX/827/ECO | 97558 | CFT9W/G23/827 | CF9DS/827/ECO | PL-S 9W/827/2P/Alto |
| F9BX/835/ECO | 97560 | CFT9W/G23/835 | CF9DS/835/ECO | PL-S 9W/835/2P/Alto |
| F9BX/841/ECO | 97561 | CFT9W/G23/841 | CF9DS/841/ECO | PL-S 9W/841/2P/Alto |
| F13BX/827/ECO | 97573 | CF13W/GX23/827 | CF13DS/827/ECO | PL-S 13W/827/2P/Alto |
| F13BX/830/ECO | 97574 | CF13W/GX23/830 | CF13DS/830/ECO | PL-S 13W/830/2P/Alto |
| F13BX/835/ECO | 97569 | CF13W/GX23/835 | CF13DS/835/ECO | PL-S 13W/835/2P/Alto |
| F13BX/841/ECO | 97571 | CF13W/GX23/841 | CF13DS/841/ECO | PL-S 13W/841/2P/Alto |
| F13BX/850/ECO | 97572 | CF13W/GX23/850 | CF13DS/850/ECO | PL-S 13W/850/2P/Alto |
| F13BX/E/830/ECO | 97563 | CF13W/GX23/830 | CF13WDS/EC/830/ECO | — |
| High Lumen Biax® 4-Pin | | | | |
| F18BX/SPX30 | 16649 | FT18W/2G11/830 | FT18DL/830 | PL-L 18W/830 |
| F18BX/SPX35 | 16053 | FT18W/2G11/835 | FT18DL/835 | PL-L 18W/835 |
| F18BX/SPX41 | 16940 | FT18W/2G11/841 | FT18DL/841 | PL-L 18W/841 |
| F18BX/SPX30/RS | 17174 | FT18W/2G11/RS/830 | FT18DL/830/RS | — |
| F18BX/SPX35/RS | 17175 | FT18W/2G11/RS/835 | FT18DL/835/RS | — |
| F18BX/SPX65/RS | 12521 | FT18W/2G11/RS/865 | — | — |
| F27BX/SPX30/RS | 16944 | FT24W/2G11/830 | FT24DL/830 | PL-L 24W/830 |
| F27BX/SPX35/RS | 16948 | FT24W/2G11/835 | FT24DL/835 | PL-L 24W/835 |
| F27BX/SPX41/RS | 16951 | FT24W/2G11/841 | FT24DL/841 | PL-L 24W/841 |
| F39BX/SPX30/RS | 16538 | FT36W/2G11/830 | FT36DL/830 | PL-L 36W/830 |
| F39BX/SPX35/RS | 15867 | FT36W/2G11/835 | FT36DL/835 | PL-L 36W/835 |
| F39BX/SPX41/RS | 16952 | FT36W/2G11/841 | FT36DL/841 | PL-L 36W/841 |
| F40/25/BX830/IS/WM | 75399 | FT40W/2G11/IS/830 | F40DL/28W/830/SS/IS/ECO | PL-L 40W/830/XEW/4P/IS 25W |
| F40/25/BX835/IS/WM | 75400 | FT40W/2G11/IS/835 | F40DL/28W/835/SS/IS/ECO | PL-L 40W/835/XEW/4P/IS 25W |
| F40/25/BX841/IS/WM | 75401 | FT40W/2G11/IS/841 | F40DL/28W/841/SS/IS/ECO | PL-L 40W/841/XEW/4P/IS 25W |
| F40/25/BX850/IS/WM | 75402 | FT40W/2G11/IS/850 | — | — |
| F40/30BX/SPX30 | 16953 | FT40W/2G11/RS/830 | FT40DL/830/RS | PL-L 40W/830/RS/IS |
| F40/30BX/SPX35 | 16648 | FT40W/2G11/RS/835 | FT40DL/835/RS | PL-L 40W/835/RS/IS |
| F40/30BX/SPX41 | 16954 | FT40W/2G11/RS/841 | FT40DL/841/RS | PL-L 40W/841/RS/IS |
| F40/30BX/SPX50/RS | 10490 | FT40W/2G11/RS/850 | FT40DL/850/RS | — |
| F50BXSPX30RS | 20898 | FT50W/2G11/RS/830 | — | PL-L 50W/830/RS |
| F50BXSPX35RS | 20899 | FT50W/2G11/RS/835 | — | PL-L 50W/835/RS |
| F50BXSPX41RS | 20900 | FT50W/2G11/RS/841 | — | PL-L 50W/841/RS |
| F55BX/830 | 31951 | FT55W/2G11/RS/830 | FT55DL/830 | — |
| F55BX/835 | 31952 | FT55W/2G11/RS/835 | FT55DL/835 | — |
| F55BX/841 | 31953 | FT55W/2G11/RS/841 | FT55DL/841 | — |
| Double Biax® 2-Pin | | | | |
| F9DBX23/827/ECO | 97576 | CFQ9W/G23/827 | CF9DD/827 | — |
| F9DBX23/841/ECO | 97575 | CFQ9W/G23/841 | — | — |
| F13DBX23/827/ECO | 97586 | CFQ13W/GX23/827 | CF13DD/827 | PL-C 13W/827/USA/Alto |
| F13DBX23/830/ECO | 97587 | CFQ13W/GX23/830 | CF13DD/830 | PL-C 13W/830/USA/Alto |
| F13DBX23/835/ECO | 97588 | CFQ13W/GX23/835 | CF13DD/835 | PL-C 13W/835/USA/Alto |
| F13DBX23/841/ECO | 97589 | CFQ13W/GX23/841 | CF13DD/841 | PL-C 13W/841/USA/Alto |
| F13DBX/827/ECO | 97590 | CFQ13W/G24d/827 | — | PL-C 13W/827/Alto |
| F13DBX/830/ECO | 97591 | CFQ13W/G24d/830 | — | PL-C 13W/830/Alto |
| F13DBX/835/ECO | 97592 | CFQ13W/G24d/835 | — | — |
| F13DBX/841/ECO | 97593 | CFQ13W/G24d/841 | — | — |
| F18DBX/827/ECO | 97577 | CFQ18W/G24d/827 | CF18DD/827 | PL-C 18W/827/Alto |
| F18DBX/830/ECO | 97578 | CFQ18W/G24d/830 | CF18DD/830 | PL-C 18W/830/Alto |
| F18DBX/835/ECO | 97579 | CFQ18W/G24d/835 | CF18DD/835 | PL-C 18W/835/Alto |
| F18DBX/841/ECO | 97580 | CFQ18W/G24d/841 | CF18DD/841 | PL-C 18W/841/Alto |
| F26DBX/827/ECO | 97606 | CFQ26W/G24d/827 | CF26DD/827 | PL-C 26W/827/Alto |

| GE Description | GE Product Code | Generic Description | Osram/Sylvania Description | Philips Description |
|---------------------------------------|-----------------|---|----------------------------|------------------------|
| Order This GE Lamp | | If you currently use these lamps | | |
| Double Biax® 2-Pin (continued) | | | | |
| F26DBX/830/ECO | 97607 | CFQ26W/G24d/830 | CF26DD/830 | PL-C 26W/830/Alto |
| F26DBX/835/ECO | 97608 | CFQ26W/G24d/835 | CF26DD/835 | PL-C 26W/835/Alto |
| F26DBX/841/ECO | 97609 | CFQ26W/G24d/841 | CF26DD/841 | PL-C 26W/841/Alto |
| F26DBX/E/827/ECO | 97602 | CFQ26W/G24d/827 | — | — |
| F26DBX/E/835/ECO | 97604 | CFQ26W/G24d/835 | — | — |
| Double Biax® 4-Pin | | | | |
| F13DBX/827/ECO4P | 97594 | CFQ13W/G24q/827 | CF13DD/E/827 | PL-C 13W/827/4P/Alto |
| F13DBX/830/ECO4P | 97595 | CFQ13W/G24q/830 | CF13DD/E/830 | PL-C 13W/830/4P/Alto |
| F13DBX/835/ECO4P | 97596 | CFQ13W/G24q/835 | CF13DD/E/835 | PL-C 13W/835/4P/Alto |
| F13DBX/841/ECO4P | 97597 | CFQ13W/G24q/841 | CF13DD/E/841 | PL-C 13W/841/4P/Alto |
| F18DBX/827/ECO4P | 97598 | CFQ18W/G24q/827 | CF18DD/E/827 | PL-C 18W/827/4P/Alto |
| F18DBX/830/ECO4P | 97599 | CFQ18W/G24q/830 | CF18DD/E/830 | PL-C 18W/830/4P/Alto |
| F18DBX/835/ECO4P | 97600 | CFQ18W/G24q/835 | CF18DD/E/835 | PL-C 18W/835/4P/Alto |
| F18DBX/841/ECO4P | 97601 | CFQ18W/G24q/841 | CF18DD/E/841 | PL-C 18W/841/4P/Alto |
| F26DBX/827/ECO4P | 97610 | CFQ26W/G24q/827 | CF26DD/E/827 | PL-C 26W/827/4P/Alto |
| F26DBX/830/ECO4P | 97611 | CFQ26W/G24q/830 | CF26DD/E/830 | PL-C 26W/830/4P/Alto |
| F26DBX/835/ECO4P | 97612 | CFQ26W/G24q/835 | CF26DD/E/835 | PL-C 26W/835/4P/Alto |
| F26DBX/841/ECO4P | 97613 | CFQ26W/G24q/841 | CF26DD/E/841 | PL-C 26W/841/4P/Alto |
| Triple Biax® 4-Pin | | | | |
| F13TBX/827/4P/ECO | 97623 | CFTR13W/GX24q/827 | CF13DT/E/827 | PL-T 13W/827/X/4P/Alto |
| F13TBX/827/A/ECO | 97519 | CFTR13W/GX24q/827 | — | — |
| F13TBX/830/A/ECO | 97620 | CFTR13W/GX24q/830 | — | — |
| F13TBX/835/A/ECO | 97621 | CFTR13W/GX24q/835 | — | — |
| F13TBX/841/A/ECO | 97622 | CFTR13W/GX24q/841 | — | — |
| F18TBX/827/4P/ECO | 97628 | CFTR18W/GX24q/827 | CF18DT/E/827 | PL-T 18W/827/X/4P/Alto |
| F18TBX/827/A/ECO | 97624 | CFTR18W/GX24q/827 | CF18DT/E/IN/827 | PL-T 18W/827/4P/Alto |
| F18TBX/830/A/ECO | 97625 | CFTR18W/GX24q/830 | CF18DT/E/IN/830 | PL-T 18W/830/4P/Alto |
| F18TBX/835/A/ECO | 97626 | CFTR18W/GX24q/835 | CF18DT/E/IN/835 | PL-T 18W/835/4P/Alto |
| F18TBX/841/A/ECO | 97627 | CFTR18W/GX24q/841 | CF18DT/E/IN/841 | PL-T 18W/841/4P/Alto |
| F26TBX/827/4P/ECO | 97618 | CFTR26W/GX24q/827 | CF26DT/E/827 | PL-T 26W/827/X/4P/Alto |
| F26TBX/827/A/ECO | 97614 | CFTR26W/GX24q/827 | CF26DT/E/IN/827 | PL-T 26W/827/4P/Alto |
| F26TBX/830/A/ECO | 97615 | CFTR26W/GX24q/830 | CF26DT/E/IN/830 | PL-T 26W/830/4P/Alto |
| F26TBX/835/A/ECO | 97616 | CFTR26W/GX24q/835 | CF26DT/E/IN/835 | PL-T 26W/835/4P/Alto |
| F26TBX/841/A/ECO | 97617 | CFTR26W/GX24q/841 | CF26DT/E/IN/841 | PL-T 26W/841/4P/Alto |
| F32TBX/827/A/ECO | 97629 | CFTR32W/GX24q/827 | CF32DT/E/IN/827 | PL-T 32W/827/4P/Alto |
| F32TBX/830/A/ECO | 97630 | CFTR32W/GX24q/830 | CF32DT/E/IN/830 | PL-T 32W/830/4P/Alto |
| F32TBX/835/A/ECO | 97631 | CFTR32W/GX24q/835 | CF32DT/E/IN/835 | PL-T 32W/835/4P/Alto |
| F32TBX/841/A/ECO | 97632 | CFTR32W/GX24q/841 | CF32DT/E/IN/841 | PL-T 32W/841/4P/Alto |
| F42TBX/827/A/ECO | 97633 | CFTR42W/GX24q/827 | CF42DT/E/IN/827 | PL-T 42W/827/4P/Alto |
| F42TBX/830/A/ECO | 97634 | CFTR42W/GX24q/830 | CF42DT/E/IN/830 | PL-T 42W/830/4P/Alto |
| F42TBX/835/A/ECO | 97635 | CFTR42W/GX24q/835 | CF42DT/E/IN/835 | PL-T 42W/835/4P/Alto |
| F42TBX/841/A/ECO | 97636 | CFTR42W/GX24q/841 | CF42DT/E/IN/841 | PL-T 42W/841/4P/Alto |
| High Output Biax® 4-Pin | | | | |
| F57QBX827A4P/EOL | 48861 | CFM57W/GX24q/827 | CF57DT/E/IN/827 | — |
| F57QBX835A4P/EOL | 48863 | CFM57W/GX24q/835 | CF57DT/E/IN/835 | PL-T 57W/835/4P/A |
| F57QBX841A4P/EOL | 48864 | CFM57W/GX24q/841 | CF57DT/E/IN/841 | PL-T 57W/841/4P/A |
| F57QBX850A4P/EOL | 93404 | CFM57W/GX24q/850 | — | — |
| F70QBX827A4P/EOL | 48865 | CFM70W/GX24q/827 | — | — |
| F70QBX830A4P/EOL | 48866 | CFM70W/GX24q/830 | — | — |
| F70QBX835A4P/EOL | 48867 | CFM70W/GX24q/835 | — | — |
| F70QBX841A4P/EOL | 48868 | CFM70W/GX24q/841 | — | — |
| F70QBX850A4P/EOL | 93406 | CFM70W/GX24q/850 | — | — |

Compact Fluorescent Lamps

GE Enhanced Plug-in Product Conversion

| PC | PC Description | New PC | New Description |
|---|------------------|------------------------------|------------------|
| If you used to order GE product: | | Now order GE product: | |
| 37654 | F5BX/SPX27/827 | 97551 | F5BX/827/ECO |
| 37661 | F5BX/SPX41/840 | 97553 | F5BX/841/ECO |
| 37846 | F7BX/SPX27/827 | 97554 | F7BX/827/ECO |
| 37659 | F7BX/SPX35/835 | 97556 | F7BX/835/ECO |
| 37660 | F7BX/SPX41/840 | 97557 | F7BX/841/ECO |
| 37651 | F9BX/SPX27/827 | 97558 | F9BX/827/ECO |
| 37652 | F9BX/SPX35/835 | 97560 | F9BX/835/ECO |
| 37653 | F9BX/SPX41/840 | 97561 | F9BX/841/ECO |
| 41645 | F13BX/E/827 | 97562 | F13BX/E/827/ECO |
| 41646 | F13BX/E/830 | 97563 | F13BX/E/830/ECO |
| 17048 | F13BX/SPX35/835 | 97569 | F13BX/835/ECO |
| 20434 | F13BX/SPX41/840 | 97571 | F13BX/841/ECO |
| 11671 | F13BX/SPX50 | 97572 | F13BX/850/ECO |
| 14650 | F13BX/SPX27/827 | 97573 | F13BX/827/ECO |
| 17612 | F13BX/SPX30/830 | 97574 | F13BX/830/ECO |
| 42065 | F9DBX23T4/841 | 97575 | F9DBX23/841/ECO |
| 12409 | F9DBX23T4SPX27/8 | 97576 | F9DBX23/827/ECO |
| 18844 | F13DBX23T4/SPX27 | 97586 | F13DBX23/827/ECO |
| 10574 | F13DBX23T4/SPX30 | 97587 | F13DBX23/830/ECO |
| 18556 | F13DBX23T4/SPX35 | 97588 | F13DBX23/835/ECO |
| 20531 | F13DBX23T4/SPX41 | 97589 | F13DBX23/841/ECO |
| 18557 | F13DBXT4/SPX27 | 97590 | F13DBX/827/ECO |
| 12956 | F13DBXT4/SPX30 | 97591 | F13DBX/830/ECO |
| 18559 | F13DBXT4/SPX35 | 97592 | F13DBX/835/ECO |
| 20532 | F13DBXT4/SPX41 | 97593 | F13DBX/841/ECO |
| 30035 | F13DBX/SPX27/4P | 97594 | F13DBX/827/ECO4P |
| 10580 | F13DBX/SPX30/4P | 97595 | F13DBX/830/ECO4P |
| 30037 | F13DBX/SPX35/4P | 97596 | F13DBX/835/ECO4P |
| 30038 | F13DBX/SPX41/4P | 97597 | F13DBX/841/ECO4P |
| 12860 | F18DBXT4/SPX27 | 97577 | F18DBX/827/ECO |
| 12861 | F18DBXT4/SPX30 | 97578 | F18DBX/830/ECO |
| 12863 | F18DBXT4/SPX35 | 97579 | F18DBX/835/ECO |
| 12864 | F18DBXT4/SPX41 | 97580 | F18DBX/841/ECO |
| 12865 | F18DBX/SPX27/4P | 97598 | F18DBX/827/ECO4P |
| 12866 | F18DBX/SPX30/4P | 97599 | F18DBX/830/ECO4P |
| 12869 | F18DBX/SPX35/4P | 97600 | F18DBX/835/ECO4P |
| 12870 | F18DBX/SPX41/4P | 97601 | F18DBX/841/ECO4P |
| 46290 | F26DBX/E/827 | 97602 | F26DBX/E/827/ECO |
| 46292 | F26DBX/E/835 | 97604 | F26DBX/E/835/ECO |
| 35250 | F26DBXT4/SPX27 | 97606 | F26DBX/827/ECO |
| 35237 | F26DBXT4/SPX30 | 97607 | F26DBX/830/ECO |
| 35251 | F26DBXT4/SPX35 | 97608 | F26DBX/835/ECO |
| 35252 | F26DBXT4/SPX41 | 97609 | F26DBX/841/ECO |
| 35247 | F26DBXT4SPX27/4P | 97610 | F26DBX/827/ECO4P |
| 35235 | F26DBXT4SPX30/4P | 97611 | F26DBX/830/ECO4P |
| 35248 | F26DBXT4SPX35/4P | 97612 | F26DBX/835/ECO4P |
| 35236 | F26DBXT4SPX41/4P | 97613 | F26DBX/841/ECO4P |
| 34391 | F13TBX/SPX27/A/4 | 97619 | F13TBX/827/A/ECO |
| 34395 | F13TBX/SPX30/A/4 | 97620 | F13TBX/830/A/ECO |
| 34400 | F13TBX/SPX35/A/4 | 97621 | F13TBX/835/A/ECO |
| 34387 | F13TBX/SPX41/A/4 | 97622 | F13TBX/841/A/ECO |
| 47696 | F13TBX827/4P/EOL | 97623 | F13TBX827/4P/ECO |
| 34392 | F18TBX/SPX27/A/4 | 97624 | F18TBX/827/A/ECO |
| 34396 | F18TBX/SPX30/A/4 | 97625 | F18TBX/830/A/ECO |
| 34405 | F18TBX/SPX35/A/4 | 97626 | F18TBX/835/A/ECO |
| 34385 | F18TBX/SPX41/A/4 | 97627 | F18TBX/841/A/ECO |
| 48869 | F18TBX827/4P/EOL | 97628 | F18TBX827/4P/ECO |
| 34393 | F26TBX/SPX27/A/4 | 97614 | F26TBX/827/A/ECO |
| 34397 | F26TBX/SPX30/A/4 | 97615 | F26TBX/830/A/ECO |
| 34406 | F26TBX/SPX35/A/4 | 97616 | F26TBX/835/A/ECO |
| 34381 | F26TBX/SPX41/A/4 | 97617 | F26TBX/841/A/ECO |
| 48870 | F26TBX827/4P/EOL | 97618 | F26TBX827/4P/ECO |
| 39377 | F32TBX/SPX27A/4P | 97629 | F32TBX/827/A/ECO |

| PC | PC Description | New PC | New Description |
|---|---------------------|------------------------------|------------------|
| If you used to order GE product: | | Now order GE product: | |
| 39378 | F32TBX/SPX30A/4P | 97630 | F32TBX/830/A/ECO |
| 39379 | F32TBX/SPX35A/4P | 97631 | F32TBX/835/A/ECO |
| 39380 | F32TBX/SPX41A/4P | 97632 | F32TBX/841/A/ECO |
| 46312 | F42TBX827A4P/EOL | 97633 | F42TBX/827/A/ECO |
| 46313 | F42TBX830A4P/EOL | 97634 | F42TBX/830/A/ECO |
| 46314 | F42TBX835A4P/EOL | 97635 | F42TBX/835/A/ECO |
| 46315 | F42TBX841A4P/EOL | 97636 | F42TBX/841/A/ECO |
| 48861 | F57QBX/827/A/4P/EOL | 48861 | F57QBX/827/A/ECO |
| 48862 | F57QBX/830/A/4P/EOL | 48862 | F57QBX/830/A/ECO |
| 48863 | F57QBX/835/A/4P/EOL | 48863 | F57QBX/835/A/ECO |
| 48864 | F57QBX/841/A/4P/EOL | 48864 | F57QBX/841/A/ECO |
| 93404 | F57QBX/850/A/4P/EOL | 93404 | F57QBX/850/A/ECO |
| 48865 | F70QBX/827/A/4P/EOL | 48865 | F70QBX/827/A/ECO |
| 48866 | F70QBX/830/A/4P/EOL | 48866 | F70QBX/830/A/ECO |
| 48867 | F70QBX/835/A/4P/EOL | 48867 | F70QBX/835/A/ECO |
| 48868 | F70QBX/841/A/4P/EOL | 48868 | F70QBX/841/A/ECO |
| 93406 | F70QBX/850/A/4P/EOL | 93406 | F70QBX/850/A/ECO |

LED Lamps, Tubes and Modules

| | | |
|---|---|--|
| <p>Introduction 6-2</p> <p>Product Information..... 6-2</p> <p>LED Decorative Lamps</p> <p> Candles..... 6-3</p> <p> Globes 6-3</p> <p> Night Lights 6-3</p> <p> Filament Lamps..... 6-3</p> <p>LED A-Line Lamps</p> <p> A-15..... 6-3</p> <p> A-19..... 6-3</p> <p> A-21..... 6-4</p> <p> Bright Stik 6-4</p> <p>LED Reflector Lamps</p> <p> R20..... 6-4</p> <p> BR30..... 6-5</p> <p> BR40..... 6-5</p> <p>LED Directional Lamps (MR16)</p> <p> 12 Volt AC/DC MR16 and MRX16..... 6-5</p> <p> 120 Volt GU10 6-5</p> <p>LED Directional Lamps (PAR)</p> <p> Compact PAR16..... 6-5</p> <p> Compact PAR20..... 6-5</p> <p> Compact PAR30 – Low Glare – Visual Comfort Lens™ 6-6</p> <p> Compact PAR30 - Long Neck – Low Glare – Visual Comfort Lens™ 6-6</p> <p> Compact PAR30 6-6</p> <p> Compact PAR30 Long Neck..... 6-6</p> <p> PAR30 HO - Universal 120-277V..... 6-6</p> <p> PAR38 STIR..... 6-6</p> <p> PAR38 – Low Glare – Visual Comfort Lens™ 6-7</p> <p> reveal® Whiter White Technology 6-7</p> <p> Commercial PAR38 (Indoor/Outdoor)..... 6-7</p> <p>LED HID..... 6-8</p> <p>LED Plug-in 6-8</p> <p>High Lumen Biax..... 6-8</p> <p>RS Can 6-8</p> | <p>LED Tubes</p> <p> Integrated Plastic Tubes..... 6-9</p> <p> Integrated Glass Tubes 6-9</p> <p> Remote Plastic Tubes..... 6-10</p> <p> Remote Glass Tubes..... 6-10</p> <p> Ligtech™ Drivers..... 6-11</p> <p>Infusion™ LED Modules</p> <p> LED Modules..... 6-12</p> <p> Downlight (DLM) and Narrow Punch (NPM) Modules 6-12</p> <p> Optics and Collar..... 6-13</p> | <p>Incandescent</p> <p>Halogen</p> <p>High Intensity Discharge</p> <p>Fluorescent</p> <p>Compact Fluorescent</p> <p>LED Lamps, Tubes and Modules</p> <p>Stage and Studio</p> <p>Miniature, Sealed Beam and Automotive</p> <p>Projection</p> |
|---|---|--|

LED Lamps, Tubes and Modules

Introduction

A GE scientist invented the first visible LED in 1962, pioneering a technology that is revolutionizing the lighting industry. GE is also one of the largest LED systems companies in the world. But it's not only about size. We're dedicated to LED performance on your behalf. That's why we are helping to develop a universal set of performance measures so you can make an informed decision.

Product Information

LED Lamps and Tubes

Quality

The first time you turn on GE LED replacement lamps, you'll be amazed by the color, distribution, output and uniformity. The proof is in your "before and after" environment. In addition, every LED system comes with a product life rating that recognizes acceptable light output for its intended application, ensuring that you won't be left in the dark.

Long Life

GE's LED replacement lamps are sturdy, dependable and long lasting. Depending on the lamp, you can expect up to 50,000 hours of rated life. That's 12 hours a day, every day of the year, for over a decade.

Innovation

We continually invest in new products and are often the first to market with the latest upgrades, including light sources, luminaires and controls for a system that's both efficient and effective.



ENERGY STAR®

In addition to energy savings, ENERGY STAR® qualified LED lamps can further reduce the overall cost of ownership through lamp rebate incentives. Good news for you is that GE has the most ENERGY STAR® rated LEDs. According to ENERGY STAR® guidelines, the benefits of an ENERGY STAR® qualified LED lamp include:

- Uses about 75% less energy than a traditional incandescent lamp
- Lasts at least 6 times longer than an incandescent lamp
- Turns on instantly—there's no warm up time

Total System Solutions

Anyone can install a lamp. What we implement are lighting strategies and solutions. Our products are designed to benefit you from an overall performance perspective.

Proven Track Record

We've been here. We'll be here. Built into each of GE's LED replacement lamps is 125 years of experience, reliability and innovation. Every performance claim we make is supported by stringent, comprehensive testing—ensuring that your lighting investment pays off today and in the future.

Trusted Advisor

From the start, we provide a comprehensive lighting audit of existing systems, provide photometric analysis with 3D renderings of the new system, and forecast energy and maintenance savings. We also search out opportunities for improvement you may not have considered.

Short Payback Period

Decreased energy and maintenance costs, combined with utility rebates, deliver results that often exceed your expectations.




Family of Solutions

Directional. Omni-directional. Decorative. Dimming. Tight optical control. Accent. Task. Display. Indoor. Outdoor. You name it—we've got it in LED.

Infusion™ LED Module




GE Infusion™ is a game-changing technology and one of the most flexible LED lighting solutions on the market. As a designer, OEM, or end-users, you can choose from an extensive selection of modules. Plus, there's the assurance of GE reliability and performance.

- Built for the Future: If lighting needs change or LED technology advances, there is no need to buy new fixtures. Simply twist in the latest GE Infusion™ LED Module.
- Environmentally Conscious: The Infusion™ LED Module can use fewer materials than integral LED fixtures because only the module is replaced at the end of lamp life—not the entire light fixture.
- Customizable: Select the module with the light level or color quality that meets your needs. The Infusion™ LED Module dims using a variety of dimming protocols including 0-10V, Phase and DALI.
- Compatible: Ideal for fixture manufacturers designing for track, recessed, pendant or other types of luminaires around one compatible solution—no need for multiple base designs.

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | MOL (in) | Lumens Initial | CBCP | Initial Color Temp | CRI | †Wattage Equivalency | *Rated Life - Hours L70 | Dimmable | ††ENERGY STAR® | ‡Location Rating | Additional Information | |
|---|---|--|------------|------------------|-------|----------|----------|----------------|------|--------------------|-----|----------------------|-------------------------|----------|----------------|------------------|--------------------------------|--|
| LED Decorative Lamps | | | | | | | | | | | | | | | | | | |
| LED Candles (1.8W candles are 10-watt incandescent replacements – based on ENERGY STAR® requirements for lumens) | | | | | | | | | | | | | | | | | | |
|  | Med | 3.5 | 68168 | LED3DCAM-C/TP | 120 | 3 | 4.2 | 170 | | 2700 | 80 | 25W | 15,000 | ▲ | | Damp | Clear, Bent Tip | |
| | | 4 | 21250 | LED4DCAM-C3/827 | 120 | 6 | 4.2 | 300 | | 2700 | 80 | 40W | 15,000 | ▲ | ★ | Damp | Clear, Bent Tip | |
| | | 4 | 75554 | LED4DCAMCF/824 | 120 | 6 | 4.2 | 250 | | 2400 | 76 | 25W | 15,000 | ▲ | | Damp | Clear, Bent Tip | |
| | | 4.5 | 68167 | LED4DCAM-F/TP | 120 | 3 | 4.2 | 270 | | 2700 | 82 | 25W | 15,000 | ▲ | | Damp | Frost, Blunt Tip | |
| | | 7 | 21251 | LED7DCAM-C3/827 | 120 | 6 | 4.8 | 500 | | 2700 | 80 | 60W | 15,000 | ▲ | ★ | Damp | Clear, Bent Tip | |
| | E16 | 4 | 69111 | LED4DCAM-C3/850 | 120 | 6 | 4.2 | 300 | | 5000 | 80 | 40W | 15,000 | ▲ | | Damp | Clear, Bent Tip | |
| | Cand | 3.5 | 68166 | LED3DCAC-C/TP | 120 | 3 | 4.3 | 170 | | 2700 | 80 | 25W | 15,000 | ▲ | | Damp | Clear, Bent Tip | |
| | | 4 | 21231 | LED4DCAC-C3/827 | 120 | 6 | 4.3 | 300 | | 2700 | 80 | 40W | 15,000 | ▲ | ★ | Damp | Clear, Bent Tip | |
| | | 4 | 69109 | LED4DCAC-C3/850 | 120 | 6 | 4.3 | 300 | | 2700 | 80 | 40W | 15,000 | ▲ | | Damp | Clear, Bent Tip | |
| | | 4 | 75553 | LED4DCACCF/824 | 120 | 6 | 4.3 | 250 | | 2400 | 76 | 25W | 15,000 | ▲ | | Damp | Clear, Bent Tip | |
| | | 4.5 | 68165 | LED4DCAC-F/TP | 120 | 3 | 4.3 | 270 | | 2700 | 82 | 25W | 15,000 | ▲ | | Damp | Frost, Bent Tip | |
| | | 7 | 21233 | LED7DCAC-C3/827 | 120 | 6 | 4.8 | 500 | | 2700 | 80 | 60W | 15,000 | ▲ | ★ | Damp | Clear, Bent Tip | |
| | LED Globes (1.8W candles are 10-watt and 2.3W candles are 15-watt incandescent replacements – based on ENERGY STAR® requirements for lumens) | | | | | | | | | | | | | | | | | |
| G16.5 | Cand | 4.5 | 68169 | LED4DG16C-W/TP | 120 | 3 | 3.0 | 270 | | 2700 | 82 | 25W | 15,000 | ▲ | | Damp | White | |
| | | 4.5 | 68170 | LED4DG16C-C/TP | 120 | 3 | 3.0 | 270 | | 2700 | 82 | 25W | 15,000 | ▲ | | Damp | Clear | |
| G25 | Med | 4.5 | 68171 | LED4DG25M-W/TP | 120 | 3 | 4.3 | 280 | | 2700 | 82 | 25W | 15,000 | ▲ | | Damp | White | |
| | | 4.5 | 68172 | LED4DG25M-C/TP | 120 | 3 | 4.3 | 280 | | 2700 | 82 | 25W | 15,000 | ▲ | | Damp | Clear | |
| | | 5 | 21253 | LED5DG25-W3/827 | 120 | 6 | 4.3 | 350 | | 2700 | 80 | 40W | 15,000 | ▲ | ★ | Damp | White | |
| | | 7 | 21255 | LED7DG25-W3/827 | 120 | 6 | 4.3 | 500 | | 2700 | 80 | 60W | 15,000 | ▲ | ★ | Damp | White | |
| LED Night Lights | | | | | | | | | | | | | | | | | | |
| C7 | Cand | 0.5 | 13887 | LED0.5C7/C/CD2 | 120 | 6 | 2 | | | 2700 | 80 | | 25,000 | | | Dry | Clear | |
| | | 0.5 | 14150 | LED0.5C7/W/CD2 | 120 | 6 | 2 | | | 2700 | 80 | | 25,000 | | | Dry | White | |
| LED Filament Lamps | | | | | | | | | | | | | | | | | | |
| CA11 | E12 | 3 | 75915 | LED3DCAC-V | 120 | 6 | 4.4 | 300 | | 2500 | 80 | 40W | 15,000 | ▲ | | Damp | Bent Tip, Vintage Filament | |
| | Cand | 3 | 75914 | LED3DCAM-V | 120 | 6 | 4.4 | 300 | | 2500 | 80 | 40W | 15,000 | ▲ | | Damp | Bent Tip, Vintage Filament | |
| ST19 | Med | 3 | 76018 | LED3DST19-V | 120 | 6 | 5 | 440 | | 2500 | | 25W | 15,000 | ▲ | | Damp | Vintage Filament | |
| | | 5 | 33025 | LED5DST19-V-OT2P | 120 | 8 | 5 | 440 | | 2500 | | 40W | 15,000 | ▲ | | Damp | 4, 2-packs, Vintage Filament | |
| LED A-Line Lamps | | | | | | | | | | | | | | | | | | |
| LED A-15 | | | | | | | | | | | | | | | | | | |
|  | Med | 3 | 92122 | LED3A15RED | 120 | 3 | 3.5 | | | Red | | | 15,000 | | | Damp | Red | |
| | | 3 | 92125 | LED3A15BLUE | 120 | 3 | 3.5 | | | Blue | | | 15,000 | | | Damp | Blue | |
| | | 3 | 92126 | LED3A15GREEN | 120 | 3 | 3.5 | | | Green | | | 15,000 | | | Damp | Green | |
| | | 3 | 92132 | LED3A15PINK | 120 | 3 | 3.5 | | | Pink | | | 15,000 | | | Damp | Pink | |
| | | 3 | 23054 | LED3A15ORNG | 120 | 3 | 3.5 | | | Orange | | | 15,000 | | | Damp | Orange | |
| | | 4 | 34038 | LED4DA15-W3/827 | 120 | 6 | 3.5 | 300 | | 2700 | 80 | 40W | 15,000 | ▲ | | Damp | White | |
| | | 4 | 34051 | LED4DA15-C3/827 | 120 | 6 | 3.5 | 300 | | 2700 | 80 | 40W | 15,000 | ▲ | | Damp | Clear | |
| | | 4.5 | 83645 | LED4.5DA15C-FRIG | 120 | 3 | 3.5 | 350 | | 5000 | 80 | 40W | 15,000 | ▲ | | Damp | Clear Refrigerator Bulb | |
| | | LED A-19 (The 9W A-19s are 40-watt and the 13W A-19s are 60-watt incandescent replacements – based on ENERGY STAR® requirements for lumens) | | | | | | | | | | | | | | | | |
|  | Med | 6 | 69115 | LED6DA19/827 | 120 | 6 | 4.4 | 480 | | 2700 | 80 | 40W | 15,000 | ▲ | ★ | Damp | White, Omnidirectional, ES 2.0 | |
| | | 6 | 69118 | LED6DA19/830 | 120 | 6 | 4.4 | 480 | | 3000 | 80 | 40W | 15,000 | ▲ | ★ | Damp | White, Omnidirectional, ES 2.0 | |
| | | 6 | 69132 | LED6DA19/840 | 120 | 6 | 4.4 | 480 | | 4000 | 80 | 40W | 15,000 | ▲ | ★ | Damp | White, Omnidirectional, ES 2.0 | |
| | | 6 | 69144 | LED6DA19/850 | 120 | 6 | 4.4 | 480 | | 5000 | 80 | 40W | 15,000 | ▲ | ★ | Damp | White, Omnidirectional, ES 2.0 | |
| | | 7 | 89944 | LED7DAV3/5K/BX | 120 | 4 | 4.63 | 500 | | 5000 | 80 | 40W | 25,000 | ▲ | | Damp | White, Semi-Omni | |
| | | 7 | 14063 | LED7DAV3/827W | 120 | 6 | 4.63 | 470 | | 2700 | 80 | 40W | 25,000 | ▲ | | Damp | White, Semi-Omni | |
| | | 7 | 34238 | LED7DA19/824 | 120 | 6 | 4.44 | 450 | | 2400 | 80 | 40W | 25,000 | ▲ | | Damp | White | |
| | | 7 | 11332 | LED7DA19/827 | 120 | 6 | 4.43 | 450 | | 2700 | 80 | 40W | 25,000 | ▲ | | Damp | White, Omnidirectional | |
| | | 7 | 71208 | LED7DA19/830 | 120 | 6 | 4.43 | 450 | | 3000 | 80 | 40W | 25,000 | ▲ | | Damp | White, Omnidirectional | |
| | | 7 | 95928 | LED7DAV3/5K | 120 | 6 | 4.63 | 500 | | 5000 | 80 | 40W | 25,000 | ▲ | | Damp | White, Semi-Omni | |

* The life rating is based on the hours of operation the lamp will provide before reaching 70% of its original lumen rating (L70).
 ** Minimum order quantity = 6
 † Incandescent or halogen wattage equivalencies based on Energy Star guidelines using lumens or CBCP according to lamp type
 †† Energy Star status: Certified as meeting Energy Star guidelines.
 ‡ UL 1993 Environmental Requirements for LED Lamps.
 Location, damp – Exterior or interior location that is normally or periodically subject to condensation of moisture in, on, or adjacent to electrical equipment, and includes partially protected locations.
 Location, dry – Location not normally subject to dampness, may include a location subject to temporary dampness, i.e., building under construction, provided ventilation is adequate to prevent an accumulation of moisture.
 Location, wet – Location in which water or other liquid can drip, splash, or flow on or against electrical equipment.
 Note: Product descriptions ending in "TP" indicate a carded blister or clamshell package nested in a tray for shelf display. Cards also designed for hook display.

LED Lamps, Tubes and Modules

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | MOL (in) | Lumens Initial | CBCP | Initial Color Temp | CRI | †Wattage Equivalency | *Rated Life – Hours L70 | Dimmable | ††ENERGY STAR® | ‡Location Rating | Additional Information | | | |
|--|-----------|----------------------------|------------|------------------|------------------|----------|----------|----------------|------|--------------------|------|----------------------|-------------------------|----------|----------------|------------------|----------------------------------|------------------------|--|--|
| LED A-Line Lamps (continued) | | | | | | | | | | | | | | | | | | | | |
| LED A-19 (continued) (The 9W A-19s are 40-watt and the 13W A-19s are 60-watt incandescent replacements – based on ENERGY STAR® requirements for lumens) | | | | | | | | | | | | | | | | | | | | |
|  | Med | 10 | 69117 | LED10DA19/827 | 120 | 6 | 4.4 | 800 | | 2700 | 80 | 60W | 15,000 | ▲ | ★ | Damp | White, Omnidirectional, ES 2.0 | | | |
| | | 10 | 69119 | LED10DA19/830 | 120 | 6 | 4.4 | 800 | | 3000 | 80 | 60W | 15,000 | ▲ | ★ | Damp | White, Omnidirectional, ES 2.0 | | | |
| | | 10 | 69133 | LED10DA19/840 | 120 | 6 | 4.4 | 800 | | 4000 | 80 | 60W | 15,000 | ▲ | ★ | Damp | White, Omnidirectional, ES 2.0 | | | |
| | | 10 | 69146 | LED10DA19/850 | 120 | 6 | 4.4 | 800 | | 5000 | 80 | 60W | 15,000 | ▲ | ★ | Damp | White, Omnidirectional, ES 2.0 | | | |
| | | 10.5 | 95927 | LED11DA19/5K | 120 | 6 | 4.43 | 850 | | 5000 | 80 | 60W | 15,000 | ▲ | | Damp | White, Semi-Omni | | | |
| | | 10.5 | 13791 | LED11DAV3/827W | 120 | 6 | 4.63 | 800 | | 2700 | 80 | 60W | 15,000 | ▲ | | Damp | White, Semi-Omni | | | |
| | | 11 | 29268 | LED11DA19/824 | 120 | 6 | 4.44 | 800 | | 2400 | 80 | 60W | 25,000 | ▲ | | Damp | White, Omnidirectional | | | |
| | | 11 | 11328 | LED11DA19/827 | 120 | 6 | 4.43 | 800 | | 2700 | 80 | 60W | 25,000 | ▲ | | Damp | White, Omnidirectional | | | |
| | | 11 | 71209 | LED11DA19/830 | 120 | 6 | 4.43 | 800 | | 3000 | 80 | 60W | 25,000 | ▲ | | Damp | White, Omnidirectional | | | |
| | | GU24 | 11 | 74357 | LED11DA19827GU24 | 120 | 6 | 5.43 | 800 | | 2700 | 80 | 60W | 25,000 | ▲ | | Damp | White, Omnidirectional | | |
| LED A-21 | | | | | | | | | | | | | | | | | | | | |
|  | GU24 | 12 | 73384 | LED12DA21F/830FE | 120 | 6 | 5.31 | 1100 | | 3000 | 80 | 100W | 25,000 | ▲ | | Enclosed | White, Enclosed, Omnidirectional | | | |
| | | 12 | 73404 | LED12DA21/850FE | 120 | 6 | 5.31 | 1100 | | 5000 | 80 | 100W | 25,000 | ▲ | | Enclosed | White, Enclosed, Omnidirectional | | | |
| | Med | 13 | 12422 | LED13DA212/827 | 120 | 6 | 5.28 | 1100 | | 2700 | 80 | 75W | 25,000 | ▲ | | Damp | White, Omnidirectional | | | |
| | | 14 | 94936 | LED14DA21/827W | 120 | 6 | 5.28 | 1100 | | 2700 | 80 | 75W | 15,000 | ▲ | | | White, Semi-Omni | | | |
| | | 16 | 12349 | LED16DA212/827 | 120 | 6 | 5.28 | 1600 | | 2700 | 80 | 100W | 25,000 | ▲ | | Damp | White, Omnidirectional | | | |
| | | 16 | 12399 | LED16DA212/830 | 120 | 6 | 5.28 | 1600 | | 3000 | 80 | 100W | 25,000 | ▲ | | Damp | White, Omnidirectional | | | |
| | | GU24 | 16 | 92498 | LED16DA21827GU24 | 120 | 6 | 5.43 | 1600 | | 2700 | 80 | 100W | 25,000 | ▲ | | Damp | White, Omnidirectional | | |
| | Med | 16 | 92118 | LED16A30/100/5KB | 120 | 3 | 5.31 | 400/1600/1050 | | 5000 | 80 | 30W/70W/100W | 25,000 | | ★ | Damp | White, 3-Way | | | |
| | | 16 | 73376 | LED16A30/100/827 | 120 | 6 | 5.31 | 360/1400/900 | | 2700 | 80 | 30W/70W/100W | 25,000 | | ★ | Damp | White, 3-Way | | | |
| | | 17 | 34369 | LED17DA21/5K/BX | 120 | 4 | 5.28 | 1600 | | 5000 | 80 | 100W | 15,000 | ▲ | | Damp | White, Semi-Omni | | | |
| | | 17 | 16113 | LED17DA21/827 | 120 | 6 | 5.28 | 1600 | | 2700 | 78 | 100W | 15,000 | ▲ | | Damp | White, Semi-Omni | | | |
| | | 17 | 23006 | LED17DA21XSW | 120 | 4 | 5.28 | 1520 | | 2700 | 85 | 100W | 15,000 | ▲ | | Damp | White, Semi-Omni | | | |
| | | 22 | 73378 | LED22A50/150/827 | 120 | 6 | 5.31 | 700/2155/1600 | | 2700 | 80 | 50W/100W/150W | 25,000 | | | Damp | White, 3-Way | | | |
| | | 22 | 92120 | LED22A50/150/5KB | 120 | 3 | 5.31 | 700/2155/1600 | | 5000 | 80 | 50W/100W/150W | 25,000 | | | Damp | White, 3-Way | | | |
| | | LED Bright Stik | | | | | | | | | | | | | | | | | | |
| | Med | 5.5 | 66256 | LED5.5LS3/827 | 120 | 48 | 4.45 | 450 | | 2700 | 80 | 40W | 15,000 | | ★ | Damp | Case = 16 3-pack, ES 2.0 | | | |
| | | 5.5 | 75177 | LED5.5LS3/850 | 120 | 48 | 4.45 | 450 | | 5000 | 80 | 40W | 15,000 | | ★ | Damp | Case = 16 3-pack, ES 2.0 | | | |
| | | 6 | 35517 | LED6LS3/828 | 120 | 48 | 4.45 | 450 | | 2850 | 80 | 40W | 15,000 | | | Indoor | Case = 16 3-pack | | | |
| | | 6 | 35519 | LED6LS3/850 | 120 | 48 | 4.45 | 450 | | 5000 | 80 | 40W | 15,000 | | | Indoor | Case = 16 3-pack | | | |
| | | 9 | 75184 | LED9LS3/827 | 120 | 48 | 4.45 | 800 | | 2700 | 80 | 60W | 15,000 | | ★ | Damp | Case = 16 3-pack, ES 2.0 | | | |
| | | 9 | 75588 | LED9LS3/850 | 120 | 48 | 4.45 | 800 | | 5000 | 80 | 60W | 15,000 | | ★ | Damp | Case = 16 3-pack, ES 2.0 | | | |
| | | 10 | 28089 | LED10LS3/828 | 120 | 48 | 4.45 | 760 | | 2850 | 80 | 60W | 15,000 | | | Indoor | Case = 16 3-pack | | | |
| | | 10 | 32273 | LED10LS3/850 | 120 | 48 | 4.45 | 760 | | 5000 | 80 | 60W | 15,000 | | | Indoor | Case = 16 3-pack | | | |
| | | 14 | 35520 | LED14LS2/828 | 120 | 32 | 5.24 | 1060 | | 2850 | 80 | 75W | 15,000 | | | Indoor | Case = 16 2-pack | | | |
| | | 14 | 35522 | LED14LS2/850 | 120 | 32 | 5.24 | 1060 | | 5000 | 80 | 75W | 15,000 | | | Indoor | Case = 16 2-pack | | | |
| | | 16 | 35523 | LED16LS2/828 | 120 | 32 | 5.24 | 1520 | | 2850 | 80 | 100W | 15,000 | | | Indoor | Case = 16 2-pack | | | |
| | | 16 | 35524 | LED16LS2/850 | 120 | 32 | 5.24 | 1520 | | 5000 | 80 | 100W | 15,000 | | | Indoor | Case = 16 2-pack | | | |
| | | LED Reflector Lamps | | | | | | | | | | | | | | | | | | |
| | | LED R20 | | | | | | | | | | | | | | | | | | |
|  | Med | 7 | 38268 | LED7DR20/827 | 120 | 6 | 3.64 | 470 | | 2700 | 80 | | 25,000 | ▲ | | Damp | White | | | |
| | | 7 | 43233 | LED7DR20/830 | 120 | 6 | 3.64 | 470 | | 3000 | 80 | | 25,000 | ▲ | | Damp | White | | | |
| | | 7 | 38273 | LED7DR20/850 | 120 | 6 | 3.64 | 500 | | 5000 | 80 | | 25,000 | ▲ | | Damp | White | | | |

* The life rating is based on the hours of operation the lamp will provide before reaching 70% of its original lumen rating (L70).

** Minimum order quantity = 6

† Incandescent or halogen wattage equivalencies based on Energy Star guidelines using lumens or CBCP according to lamp type

†† Energy Star status: Certified as meeting Energy Star guidelines.

‡ UL 1993 Environmental Requirements for LED Lamps.

Location, damp – Exterior or interior location that is normally or periodically subject to condensation of moisture in, on, or adjacent to electrical equipment, and includes partially protected locations.

Location, dry – Location not normally subject to dampness, may include a location subject to temporary dampness, i.e., building under construction, provided ventilation is adequate to prevent an accumulation of moisture.


Location, wet – Location in which water or other liquid can drip, splash, or flow on or against electrical equipment.

Notes: Product descriptions ending in "/TP" indicate a corded blister or clamshell package nested in a tray for shelf display. Cards also designed for hook display.


| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | MOL (in) | Lumens Initial | CBCP | Initial Color Temp | CRI | †Wattage Equivalency | *Rated Life - Hours L70 | Dimmable | ††ENERGY STAR® | ‡Location Rating | Additional Information |
|------------|-----------|-------|------------|-------------|-------|----------|----------|----------------|------|--------------------|-----|----------------------|-------------------------|----------|----------------|------------------|------------------------|
|------------|-----------|-------|------------|-------------|-------|----------|----------|----------------|------|--------------------|-----|----------------------|-------------------------|----------|----------------|------------------|------------------------|

LED Reflector Lamps (continued)

LED BR30 (The 12W BR30s are 65-watt incandescent replacements - based on ENERGY STAR® requirements for lumens)




| | | | | | | | | | | | | | | | | | |
|---|-----|----|-------|------------------|-----|---|------|-----|--|------|----|-----|--------|---|---|------|---------------------|
|  | Med | 10 | 68160 | LED10DR303V/827W | 120 | 6 | 5.37 | 700 | | 2700 | 80 | 65W | 25,000 | ▲ | ★ | Damp | Frosted, White body |
| | | 10 | 68161 | LED10DR303V/830W | 120 | 6 | 5.37 | 700 | | 3000 | 80 | 65W | 25,000 | ▲ | ★ | Damp | Frosted, White body |
| | | 10 | 43234 | LED10DR303V/827W | 120 | 3 | 5.37 | 650 | | 2700 | 80 | 65W | 25,000 | ▲ | | Damp | Frosted, White body |
| | | 10 | 43237 | LED10DR30V/830W | 120 | 3 | 5.37 | 650 | | 3000 | 80 | 65W | 25,000 | ▲ | | Damp | Frosted, White body |
| | | 10 | 43241 | LED10DR30V/850W | 120 | 3 | 5.37 | 650 | | 5000 | 80 | 65W | 25,000 | ▲ | | Damp | Frosted, White body |
| | | 10 | 69107 | LED10DR303/850W | 120 | 6 | 5.37 | 700 | | 5000 | 80 | 65W | 25,000 | ▲ | ★ | Damp | Frosted, White body |

LED BR40


| | | | | | | | | | | | | | | | | | |
|---|-----|----|-------|-----------------|-----|---|------|------|--|------|----|-----|--------|---|---|------|---------------------|
|  | Med | 13 | 20445 | LED13BR40/5K/TP | 120 | 3 | 6.34 | 1070 | | 5000 | 80 | 85W | 25,000 | ▲ | ★ | Damp | Frosted, White body |
| | | 13 | 64176 | LED13DBR40/827 | 120 | 6 | 6.34 | 1070 | | 2700 | 80 | 85W | 25,000 | ▲ | ★ | Damp | Frosted, White body |
| | | 13 | 14708 | LED13DBR40/830 | 120 | 6 | 6.34 | 1070 | | 3000 | 80 | 85W | 25,000 | ▲ | ★ | Damp | Frosted, White body |

LED Directional Lamps (MR16)

LED 12 Volt AC/DC MR16 and MRX16 (35-watt Halogen replacements - based on ENERGY STAR® requirements for center beam candlepower)


| | | | | | | | | | | | | | | | | | |
|---|-------|-----|-------|------------------|----|---|------|-----|------|------|----|-----|--------|---|---|------|--------------------------------|
|  | GU5.3 | 7 | 69920 | LED7DMR160830/25 | 12 | 6 | 1.9 | 390 | 1900 | 3000 | 83 | 35W | 25,000 | ▲ | | Damp | Narrow Flood, 25° beam, Silver |
| | | 7 | 93412 | LED7DMR16S830/15 | 12 | 6 | 2.3 | 460 | 3800 | 3000 | 80 | 35W | 25,000 | ▲ | | Damp | Spot, 15° beam, Silver |
| | | 7 | 93433 | LED7DMR16S840/15 | 12 | 6 | 1.97 | 490 | 4200 | 4000 | 80 | 35W | 25,000 | ▲ | | Damp | Accent, 15° beam, Silver |
| | | 7 | 89947 | LED7XDMR16D/TP | 12 | 6 | 1.88 | 500 | 2500 | 3000 | 82 | 50W | 25,000 | ▲ | | Damp | Accent, 25° beam, Silver |
|  | GU5.3 | 7 | 35529 | LED7DMRX16827/15 | 12 | 6 | 2.2 | 400 | 3400 | 2700 | 80 | 35W | 25,000 | ▲ | | Damp | Spot, 15° beam, White |
| | | 7 | 35206 | LED7XDMRX1682725 | 12 | 6 | 2.2 | 500 | 2350 | 2700 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White |
| | | 7 | 35214 | LED7XDMRX1682735 | 12 | 6 | 2.2 | 500 | 1350 | 2700 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam, White |
| | | 7 | 35196 | LED7XDMRX1683025 | 12 | 6 | 2.2 | 500 | 1350 | 3000 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam, White |
| | | 7 | 35195 | LED7XDMRX1683025 | 12 | 6 | 2.2 | 500 | 2350 | 3000 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White |
|  | GU5.3 | 5.5 | 35540 | LED5.5DMR1682735 | 12 | 6 | 1.88 | 400 | 1000 | 2700 | 80 | 35W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam, White |
| | | 5.5 | 35535 | LED5.5DMR1683035 | 12 | 6 | 1.88 | 420 | 1000 | 3000 | 80 | 35W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam, White |
| | | 5.5 | 35542 | LED5.5DMR1684035 | 12 | 6 | 1.8 | 460 | 1100 | 4000 | 80 | 35W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam, White |
| | | 7 | 35543 | LED7XDMR16-28325 | 12 | 6 | 1.8 | 500 | 2350 | 3000 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White |
| | | 7 | 35544 | LED7XDMR16-28335 | 12 | 6 | 1.8 | 500 | 1350 | 3000 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Flood 35° beam, White |
| | | 7 | 39542 | LED7XDMR16-V2725 | 12 | 6 | 1.88 | 530 | 2400 | 2700 | 80 | 50W | 25,000 | ▲ | | Damp | Narrow Flood, 25° beam, White |
| | | 7 | 39567 | LED7XDMR16-V2735 | 12 | 6 | 1.88 | 530 | 1400 | 2700 | 80 | 50W | 25,000 | ▲ | | Damp | Flood, 35° beam, White |

LED 120 Volt GU10


| | | | | | | | | | | | | | | | | | |
|---|------|-----|-------|-------------------|-----|---|------|-----|------|------|----|-----|--------|---|---|------|--------------------------|
|  | GU10 | 1 | 73153 | LED1GU10/NFL/CD | 120 | 3 | 2.30 | 35 | 100 | 5500 | 70 | | 12,000 | | | Damp | Deco Light |
| | | 3.5 | 37114 | LED4D/GU1083035 | 120 | 6 | 2.1 | 250 | 550 | 3000 | 80 | 35W | 25,000 | ▲ | ★ | Dry | Flood, 35° beam, White |
| | | 4 | 75865 | LED4GU10/NFL/TP | 120 | 3 | 2.30 | 100 | 250 | 3050 | 82 | | 15,000 | | | Damp | Accent, 25° beam, Silver |
| | | 4 | 89020 | LED4D/GU10/NFLTP | 120 | 3 | 2.1 | 250 | 720 | 3000 | 80 | 35W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam, White |
| | | 4.5 | 62909 | LED5GU10/NFL/TP | 120 | 3 | 2.30 | 200 | 800 | 3000 | 82 | 35W | 25,000 | | | Damp | Accent, 25° beam, Silver |
| | | 6 | 26346 | LED6D/GU10/NFL/TP | 120 | 3 | 2.1 | 380 | 1100 | 3000 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam, White |

LED Directional Lamps (PAR)

LED Compact PAR16

| | | | | | | | | | | | | | | | | | |
|---|-----|---|-------|-----------------|-----|---|-----|-----|------|------|----|-----|--------|---|---|-----|------------------------|
|  | Med | 4 | 26383 | LED4D/P16/NFLTP | 120 | 3 | 2.8 | 250 | 720 | 3000 | 80 | 40W | 25,000 | ▲ | ★ | Dry | Flood, 35° beam, White |
| | | 6 | 26384 | LED6D/P16/NFLTP | 120 | 3 | 2.8 | 380 | 1100 | 3000 | 80 | 60W | 25,000 | ▲ | ★ | Dry | Flood, 35° beam, White |

LED Compact PAR20 (50-watt halogen replacements - based on ENERGY STAR® requirements for center beam candlepower)

| | | | | | | | | | | | | | | | | | |
|---|-----|---|-------|------------------|-----|---|-----|-----|------|------|----|-----|--------|---|---|------|-------------------------------------|
|  | Med | 7 | 92163 | LED7D0202NFL-OD | 120 | 3 | 3.5 | 500 | 3600 | 2700 | 80 | 50W | 25,000 | ▲ | | Wet | Accent, 20° beam, White, in/outdoor |
| | | 7 | 21282 | LED7DP202NFL5KOD | 120 | 3 | 3.5 | 550 | 3600 | 5000 | 80 | 50W | 25,000 | ▲ | | Wet | Accent, 20° beam, White, in/outdoor |
| | | 7 | 93327 | LED7DP203B830/20 | 120 | 6 | 3.5 | 520 | 3600 | 3000 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 20° beam Black |
| | | 7 | 92121 | LED7DP203NFL5KTP | 120 | 3 | 3.5 | 550 | 4000 | 5000 | 80 | 70W | 25,000 | ▲ | ★ | Damp | Accent, 20° beam, White |
| | | 7 | 74374 | LED7DP203W/NFLTP | 120 | 3 | 3.5 | 500 | 3600 | 2700 | 80 | 70W | 25,000 | ▲ | ★ | Damp | Accent, 20° beam, White |
| | | 7 | 93347 | LED7DP203W830/20 | 120 | 6 | 3.5 | 520 | 3600 | 3000 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 20° beam White |

* The life rating is based on the hours of operation the lamp will provide before reaching 70% of its original lumen rating (L70).

** Minimum order quantity = 6

† Incandescent or halogen wattage equivalencies based on Energy Star guidelines using lumens or CBCP according to lamp type

†† Energy Star status: Certified as meeting Energy Star guidelines.

‡ UL 1993 Environmental Requirements for LED Lamps.







Location, damp - Exterior or interior location that is normally or periodically subject to condensation of moisture in, on, or adjacent to electrical equipment, and includes partially protected locations.

Location, dry - Location not normally subject to dampness, may include a location subject to temporary dampness, i.e., building under construction, provided ventilation is adequate to prevent an accumulation of moisture.

Location, wet - Location in which water or other liquid can drip, splash, or flow on or against electrical equipment.

Note: Product descriptions ending in "/TP" indicate a cased blister or clamshell package nested in a tray for shelf display. Cards also designed for hook display.

LED Lamps, Tubes and Modules

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | MOL (in) | Lumens Initial | CBCP | Initial Color Temp | CRI | †Wattage Equivalency | *Rated Life - Hours L70 | Dimmable | ††ENERGY STAR® | ‡Location Rating | Additional Information |
|--|-----------|---|------------|------------------|---------|----------|----------|----------------|-------|--------------------|-----|----------------------|-------------------------|----------|----------------|------------------|--|
| LED Directional Lamps (PAR) (continued) | | | | | | | | | | | | | | | | | |
| LED Compact PAR20 (continued) (50-watt halogen replacements - based on ENERGY STAR® requirements for center beam candlepower) | | | | | | | | | | | | | | | | | |
|  | Med | 7 | 93348 | LED7DP203W830/35 | 120 | 6 | 3.5 | 520 | 1200 | 3000 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam White |
| | | 7 | 93349 | LED7DP203B827/20 | 120 | 6 | 3.5 | 500 | 3600 | 2700 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 20° beam Black |
| | | 7 | 93354 | LED7DP203B827/35 | 120 | 6 | 3.5 | 500 | 1150 | 2700 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam Black |
| | | 7 | 93360 | LED7DP203W827/20 | 120 | 6 | 3.5 | 500 | 3600 | 2700 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 20° beam White |
| | | 7 | 93362 | LED7DP203W827/35 | 120 | 6 | 3.5 | 500 | 1150 | 2700 | 80 | 50W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam White |
| LED Compact PAR30 - Low Glare - Visual Comfort Lens™ (Halogen replacement info below is based on ENERGY STAR® requirements for center beam candlepower) | | | | | | | | | | | | | | | | | |
|  | Med | 12 | 84374 | LED12DP30RW93015 | 120 | 6 | 3.74 | 860 | 9400 | 3000 | 90 | 75W | 25,000 | ▲ | ★ | Damp | Spot, 15° beam, White |
| | | 12 | 84379 | LED12DP30RW93025 | 120 | 6 | 3.74 | 900 | 3900 | 3000 | 90 | 75W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White |
| | | 12 | 84380 | LED12DP30RW93040 | 120 | 6 | 3.74 | 900 | 1800 | 3000 | 90 | 75W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, White |
| | | 12 | 84392 | LED12DP30RW92725 | 120 | 6 | 3.74 | 850 | 3500 | 2700 | 90 | 75W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White |
| | | 12 | 84395 | LED12DP30RW92740 | 120 | 6 | 3.74 | 850 | 1700 | 2700 | 90 | 75W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, White |
| | | 12 | 84384 | LED12DP30RW83025 | 120 | 6 | 3.74 | 1050 | 4800 | 3000 | 80 | 75W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White |
| | | 12 | 42131 | LED12DP30RW83040 | 120 | 6 | 3.74 | 1050 | 2400 | 3000 | 80 | 75W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, White |
| | | 12 | 42133 | LED12DP30RW82725 | 120 | 6 | 3.74 | 1000 | 4700 | 2700 | 80 | 75W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White |
| | | 12 | 42134 | LED12DP30RW82740 | 120 | 6 | 3.74 | 1000 | 2200 | 2700 | 80 | 75W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, White |
| | | 12 | 73583 | LED12DP30RB82740 | 120 | 6 | 3.74 | 1000 | 2200 | 2700 | 80 | 75W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, Black |
| LED Compact PAR30 - Long Neck - Low Glare - Visual Comfort Lens™ (Halogen replacement info below is based on ENERGY STAR® requirements for center beam candlepower) | | | | | | | | | | | | | | | | | |
|  | Med | 12 | 84399 | LED12DP3LRW93025 | 120 | 6 | 4.72 | 900 | 3900 | 3000 | 90 | 75W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White |
| | | 12 | 84400 | LED12DP3LRW93040 | 120 | 6 | 4.72 | 900 | 1800 | 3000 | 90 | 75W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, White |
| | | 12 | 84407 | LED12DP3LRW92740 | 120 | 6 | 4.72 | 850 | 1700 | 2700 | 90 | 75W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, White |
| | | 12 | 42136 | LED12DP3LRW83025 | 120 | 6 | 4.72 | 1050 | 4800 | 3000 | 80 | 75W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White |
| | | 12 | 42137 | LED12DP3LRW83040 | 120 | 6 | 4.72 | 1050 | 2400 | 3000 | 80 | 75W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, White |
| | | 12 | 42141 | LED12DP3LRW82725 | 120 | 6 | 4.72 | 1000 | 4700 | 2700 | 80 | 75W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White |
| | | 12 | 42144 | LED12DP3LRW82740 | 120 | 6 | 4.72 | 1000 | 2200 | 2700 | 80 | 75W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, White |
|  | | 17 | 20151 | LED17DP30LW93025 | 120 | 6 | 4.8 | 1100 | 4600 | 3000 | 90 | 75W | 25,000 | ▲ | ★ | Damp | Spot, 25° beam, White |
| | | LED Compact PAR30 (Halogen replacement info below is based on ENERGY STAR® requirements for center beam candlepower) | | | | | | | | | | | | | | | |
|  | Med | 12 | 89988 | LED12DP302/FL/TP | 120 | 3 | 3.66 | 850 | 2300 | 2700 | 84 | 75W | 25,000 | ▲ | | Damp | Accent, 35° beam, White |
| | | 12 | 98755 | LED12DP303W83035 | 120 | 6 | 3.66 | 950 | 2600 | 3000 | 80 | 75W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam, White, STIR |
| LED Compact PAR30 Long Neck (Halogen replacement info below is based on ENERGY STAR® requirements for center beam candlepower) | | | | | | | | | | | | | | | | | |
|  | Med | 12 | 89989 | LED12DP3L2/FL/TP | 120 | 3 | 4.61 | 850 | 2300 | 2700 | 84 | 75W | 25,000 | ▲ | | Damp | Accent, 35° beam, White |
| | | 12 | 22233 | LED12DP3L2FLSKTP | 120 | 3 | 4.61 | 1050 | 3000 | 5000 | 84 | 75W | 25,000 | ▲ | | Damp | Accent, 35° beam, White |
| | | 12 | 98811 | LED12DP3L3W83035 | 120 | 6 | 4.61 | 950 | 2600 | 3000 | 80 | 75W | 25,000 | ▲ | ★ | Damp | Flood, 35° beam, White, STIR |
| LED PAR30 HO - Universal 120-277V | | | | | | | | | | | | | | | | | |
| | | 18 | 75089 | LED18P30LW83015 | 120-277 | 6 | 4.6 | 1800 | 15500 | 3000 | 80 | 75W | 25,000 | | | Damp | Spot, 15° beam, White |
| | | 18 | 75091 | LED18P30LW83025 | 120-277 | 6 | 4.6 | 1800 | 7000 | 3000 | 80 | 75W | 25,000 | | | Damp | Narrow Flood, 25° beam, White |
| | | 18 | 75065 | LED18P30LW93015 | 120-277 | 6 | 4.6 | 1400 | 12500 | 3000 | 90 | 75W | 25,000 | | | Damp | Spot, 15° beam, MTO, 1000 Min. Qty, 12 Week Lead Time, White |
| | | 18 | 75078 | LED18P30LW93025 | 120-277 | 6 | 4.6 | 1400 | 5000 | 3000 | 90 | 75W | 25,000 | | | Damp | Narrow Flood, 25° beam, White |
| LED PAR38 STIR | | | | | | | | | | | | | | | | | |
| PAR38 | | 15 | 32213 | LED15DP38W830/40 | 120 | 6 | 5.04 | 1300 | 2300 | 3000 | 81 | 90W | 25,000 | ▲ | ★ | Wet | Flood, 40° beam, STIR |

* The life rating is based on the hours of operation the lamp will provide before reaching 70% of its original lumen rating (L70).

** Minimum order quantity = 6

† Incandescent or halogen wattage equivalencies based on Energy Star guidelines using lumens or CBCP according to lamp type

†† Energy Star status: Certified as meeting Energy Star guidelines.




‡ UL 1993 Environmental Requirements for LED Lamps.

Location, damp - Exterior or interior location that is normally or periodically subject to condensation of moisture in, on, or adjacent to electrical equipment, and includes partially protected locations.

Location, dry - Location not normally subject to dampness, may include a location subject to temporary dampness, i.e., building under construction, provided ventilation is adequate to prevent an accumulation of moisture.

Location, wet - Location in which water or other liquid can drip, splash, or flow on or against electrical equipment.

Note: Product descriptions ending in "/TP" indicate a carded blister or clamshell package nested in a tray for shelf display. Cards also designed for hook display.

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | MOL (in) | Lumens Initial | CBCP | Initial Color Temp | CRI | †Wattage Equivalency | *Rated Life - Hours L70 | Dimmable | ††ENERGY STAR® | ‡Location Rating | Additional Information | |
|---|-----------|-----------------|------------|-------------------|-------|----------|----------|----------------|--------|--------------------|--------|----------------------|-------------------------|----------|-------------------------------|------------------|--|--|
| LED Directional Lamps (PAR) (continued) | | | | | | | | | | | | | | | | | | |
| LED PAR38 - Low Glare - Visual Comfort Lens™ (90-watt halogen replacements - based on ENERGY STAR® requirements for center beam candlepower) | | | | | | | | | | | | | | | | | | |
|  | Med | 12 | 63323 | LED12DP38W827/25 | 120 | 6 | 5.32 | 960 | 4600 | 2700 | 80 | 90W | 25,000 | ▲ | | Dry | Narrow Flood, 25° beam, White | |
| | | 12 | 63334 | LED12DP38W927/25 | 120 | 6 | 5.32 | 820 | 3900 | 2700 | 91 | 90W | 25,000 | ▲ | | Dry | Narrow Flood, 25° beam, White | |
| | | 12 | 92971 | LED12D38W3827/40 | 120 | 6 | 5.31 | 1050 | 2300 | 2700 | 81 | 100W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, White | |
| | | 12 | 92972 | LED12D38W3830/25 | 120 | 6 | 5.31 | 1050 | 5500 | 3000 | 81 | 100W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White | |
| | | 12 | 92973 | LED12D38W03830/40 | 120 | 6 | 5.31 | 1050 | 2300 | 3000 | 80 | 100W | 25,000 | ▲ | ★ | Wet | Flood, 40° beam, White | |
| | | 18 | 94909 | LED18D38W830/15 | 120 | 6 | 5.31 | 1400 | 8700 | 3000 | 80 | 85W | 25,000 | ▲ | | Dry | Spot, 15° beam, White | |
| | | 18 | 92923 | LED18D38W3927/25 | 120 | 6 | 5.31 | 1250 | 4900 | 2700 | 92 | 100W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White | |
| | | 18 | 92927 | LED18D38W3930/15 | 120 | 6 | 5.32 | 1350 | 15,000 | 3000 | 92 | 75W | 25,000 | ▲ | ★ | Damp | Spot, 15° beam, White | |
| | | 18 | 92933 | LED18D38W3930/25 | 120 | 6 | 5.31 | 1350 | 5200 | 3000 | 92 | 100W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White | |
| | | 18 | 92934 | LED18D38W3930/40 | 120 | 6 | 5.12 | 1350 | 3200 | 3000 | 92 | 120W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, White | |
| | | 18 | 92950 | LED18D38W382725 | 120 | 6 | 5.12 | 1550 | 5800 | 2700 | 81 | 120W | 25,000 | ▲ | ★ | Wet | Narrow Flood, 25° beam, White | |
| | | 18 | 92958 | LED18D38W382740 | 120 | 6 | 5.12 | 1550 | 3800 | 2700 | 81 | 120W | 25,000 | ▲ | ★ | Wet | Flood, 40° beam, White | |
| | | 18 | 92963 | LED18D38W383025 | 120 | 6 | 5.12 | 1550 | 6000 | 3000 | 81 | 120W | 25,000 | ▲ | ★ | Wet | Narrow Flood, 25° beam, White | |
| | | 18 | 92967 | LED18D38W383040 | 120 | 6 | 5.12 | 1550 | 4000 | 3000 | 81 | 150W | 25,000 | ▲ | ★ | Wet | Flood, 40° beam, White | |
| | | 18 | 85085 | LED18D38W383525 | 120 | 6 | 5.31 | 1700 | 6500 | 3500 | 81 | 120W | 25,000 | ▲ | ★ | Wet | Narrow Flood, 25° beam, White | |
| | | 18 | 87917 | LED18D38W383540 | 120 | 6 | 5.31 | 1700 | 4400 | 3500 | 81 | 150W | 25,000 | ▲ | ★ | Wet | Flood, 40° beam, White | |
| | | 18 | 92961 | LED18D38W3830/15 | 120 | 6 | 5.12 | 1750 | 20,000 | 3000 | 81 | 150W | 25,000 | ▲ | ★ | Damp | Spot, 15° beam, White | |
| | | 18 | 92926 | LED18D38W3927/40 | 120 | 6 | 5.12 | 1250 | 2900 | 2700 | 92 | 120W | 25,000 | ▲ | ★ | Damp | Flood, 40° beam, White | |
| | | 18 | 93171 | LED18D38W384025 | 120 | 6 | 5.31 | 1700 | 6500 | 4000 | 81 | 120W | 25,000 | ▲ | ★ | Wet | Narrow Flood, 25° beam, White | |
| | | 18 | 93172 | LED18D38W384040 | 120 | 6 | 5.31 | 1700 | 4400 | 4000 | 81 | 150W | 25,000 | ▲ | ★ | Wet | Flood, 40° beam, White | |
| 18 | 65730 | LED18D38W385025 | 120 | 6 | 5.31 | 1700 | 6500 | 5000 | 81 | 120W | 25,000 | ▲ | ★ | Wet | Narrow Flood, 25° beam, White | | | |
| 18 | 65731 | LED18D38W385040 | 120 | 6 | 5.31 | 1700 | 4400 | 5000 | 81 | 150W | 25,000 | ▲ | ★ | Wet | Flood, 40° beam, White | | | |
| LED reveal® Whiter White Technology | | | | | | | | | | | | | | | | | | |
|  | Med | 18 | 31300 | LED18D38WW930/15 | 120 | 6 | 5.31 | 1170 | 10000 | 3000 | 91 | 100W | 25,000 | ▲ | ★ | Damp | Spot, 15° beam, MTO, 1000 Min. Qty, 12 Week Lead Time, White | |
| | | 18 | 31301 | LED18D38WW930/25 | 120 | 6 | 5.31 | 1170 | 4500 | 3000 | 91 | 100W | 25,000 | ▲ | ★ | Damp | Narrow Flood, 25° beam, White | |
| LED Commercial PAR38 (Indoor/Outdoor) (Halogen replacement info below is based on ENERGY STAR® requirements for center beam candlepower) | | | | | | | | | | | | | | | | | | |
|  | Med | 12 | 90132 | LED12DP382W82725 | 120 | 6 | 5.12 | 850 | 4000 | 2700 | 84 | 85W | 25,000 | ▲ | | Wet | Narrow Flood, 25° beam, White | |
| | | 12 | 89990 | LED12DP382WFL/TP | 120 | 3 | 5.12 | 950 | 2700 | 3000 | 84 | 85W | 25,000 | ▲ | | Wet | Flood, 35° beam, White | |
| | | 18 | 89992 | LED18DP38WFL/TP | 120 | 6 | 5.12 | 1300 | 2400 | 3000 | 84 | 100W | 25,000 | ▲ | | Wet | Flood, 40° beam, White | |
| | | 26 | 68183 | LED26DP38S830/12 | 120 | 6 | 5.31 | 1500 | 24000 | 3000 | 82 | 130W | 25,000 | ▲ | | Wet | Spot, 12° beam, Silver, 130-w Repl. | |
| | | 26 | 68184 | LED26DP38S830/25 | 120 | 6 | 5.31 | 1500 | 6800 | 3000 | 82 | 130W | 25,000 | ▲ | | Wet | Narrow Flood, 25° beam, Silver, 130-w Repl. | |
| | | 26 | 68185 | LED26DP38S830/40 | 120 | 6 | 5.31 | 1500 | 3100 | 3000 | 82 | 120W | 25,000 | ▲ | | Wet | Flood, 40° beam, Silver, 120-w Repl. | |
| | | 26 | 68182 | LED26DP38S840/40 | 120 | 6 | 5.31 | 1650 | 3200 | 4000 | 82 | 120W | 25,000 | ▲ | | Wet | Flood, 40° beam, Silver, 120-w Repl. | |
| | | 26 | 68181 | LED26DP38S-FL/TP | 120 | 6 | 5.31 | 1650 | 3200 | 4000 | 82 | 120W | 25,000 | ▲ | | Wet | Flood, 40° beam, Silver, 120-w Repl. | |
| | | 26 | 33647 | LED26DP38S835/12 | 120 | 6 | 5.31 | 1900 | 31,000 | 3500 | 82 | 160W | 25,000 | ▲ | ★ | Wet | Spot, 12° beam, Silver | |
| | | 26 | 70591 | LED26DP38S835/40 | 120 | 6 | 5.31 | 1900 | 4,000 | 3500 | 82 | 160W | 25,000 | ▲ | ★ | Wet | Flood, 40° beam, Silver | |
| | | 28 | 15139 | LED28P38S830/15 | 120 | 6 | 5.31 | 2500 | 20,000 | 3000 | 81 | 150W | 25,000 | | ★ | Damp | Spot, 15° beam, Silver, Non-Dimming | |
| | | 28 | 25844 | LED28P38S830/25 | 120 | 6 | 5.31 | 2400 | 11,000 | 3000 | 81 | 150W | 25,000 | | ★ | Damp | Narrow Flood, 25° beam, Silver, Non-Dimming | |
| | | 28 | 25953 | LED28P38S830/40 | 120 | 6 | 5.31 | 2400 | 5,600 | 3000 | 81 | 150W | 25,000 | | ★ | Damp | Flood, 40° beam, Silver, Non-Dimming | |

* The life rating is based on the hours of operation the lamp will provide before reaching 70% of its original lumen rating (L70).

** Minimum order quantity = 6

† Incandescent or halogen wattage equivalencies based on Energy Star guidelines using lumens or CBCP according to lamp type

†† Energy Star status: Certified as meeting Energy Star guidelines.

‡ UL 1993 Environmental Requirements for LED Lamps.



Location, damp - Exterior or interior location that is normally or periodically subject to condensation of moisture in, on, or adjacent to electrical equipment, and includes partially protected locations.

Location, dry - Location not normally subject to dampness, may include a location subject to temporary dampness, i.e., building under construction, provided ventilation is adequate to prevent an accumulation of moisture.

Location, wet - Location in which water or other liquid can drip, splash, or flow on or against electrical equipment.

Note: Product descriptions ending in "/TP" indicate a carded blister or clamshell package nested in a tray for shelf display. Cards also designed for hook display.

LED Lamps, Tubes and Modules

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | MOL (in) | Lumens Initial | CBCP | Initial Color Temp | CRI | †Wattage Equivalency | *Rated Life - Hours L70 | Dimmable | †ENERGY STAR® | ‡Location Rating | Additional Information |
|---|-----------|-------|------------|------------------|-------|----------|----------|----------------|------|--------------------|-----|----------------------|-------------------------|----------|---------------|------------------|--|
| LED HID – 400 Watt Metal Halide Replacement Lamp | | | | | | | | | | | | | | | | | |
| ED37 | EX39 | 60 | 43263 | LED60/2M175/740 | | 3 | 8.4 | 8,800 | - | 4000 | 70 | 175W | 50,000 | | | Damp | Open or Enclosed Rated, CWA ANSI-M57, M137, M152 |
| | | 60 | 88107 | LED60/2M175/750 | | 3 | 8.4 | 8,800 | - | 5000 | 70 | 175W | 50,000 | | | Damp | Open or Enclosed Rated, CWA ANSI-M57, M137, M152 |
| | | 80 | 43258 | LED80/2M250/740 | | 3 | 8.4 | 11,800 | - | 4000 | 70 | 250W | 50,000 | | | Damp | Open or Enclosed Rated, CWA ANSI-M58, M138, M153 |
| | | 80 | 88099 | LED80/2M250/750 | | 3 | 8.4 | 11,800 | - | 5000 | 70 | 250W | 50,000 | | | Damp | Open or Enclosed Rated, CWA ANSI-M58, M138, M153 |
| | | 165 | 21259 | LED165/M400/740 | | 3 | 11.42 | 20,000 | - | 4000 | 73 | 400W | 50,000 | | | Dry | Open Rated, ANSI - M59, M135, M155 |
| LED Plug-in | | | | | | | | | | | | | | | | | |
|  Vertical | G24q/GX24 | 12 | 96801 | LED12G24Q-V/827 | # | 6 | 5.31 | 950 | - | 2700 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White |
| | | 12 | 96775 | LED12G24Q-V/830 | # | 6 | 5.31 | 950 | - | 3000 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White |
| | | 12 | 96689 | LED12G24Q-V/835 | # | 6 | 5.31 | 1000 | - | 3500 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White |
| | | 12 | 96771 | LED12G24Q-V/840 | # | 6 | 5.31 | 1000 | - | 4000 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White |
| | GX24q | 18.5 | 39288 | LED19GX24q-V/827 | # | 6 | 6.42 | 1800 | - | 2700 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White |
| | | 18.5 | 39277 | LED19GX24q-V/830 | # | 6 | 6.42 | 1850 | - | 3000 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White |
| | | 18.5 | 39275 | LED19GX24q-V/835 | # | 6 | 6.42 | 1950 | - | 3500 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White |
| | | 18.5 | 39279 | LED19GX24q-V/840 | # | 6 | 6.42 | 1950 | - | 4000 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White |
|  Horizontal | G24q/GX24 | 12 | 96799 | LED12G24Q-H/827 | # | 6 | 5.31 | 950 | - | 2700 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White |
| | | 12 | 96798 | LED12G24Q-H/830 | # | 6 | 5.31 | 950 | - | 3000 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White |
| | | 12 | 96761 | LED12G24Q-H/835 | # | 6 | 5.31 | 1000 | - | 3500 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White |
| | | 12 | 96769 | LED12G24Q-H/840 | # | 6 | 5.31 | 1000 | - | 4000 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White |
| | GX24q | 18.5 | 39289 | LED19GX24q-H/827 | # | 6 | 6.7 | 1800 | - | 2700 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White |
| | | 18.5 | 39282 | LED19GX24q-H/830 | # | 6 | 6.7 | 1850 | - | 3000 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White |
| | | 18.5 | 39276 | LED19GX24q-H/835 | # | 6 | 6.7 | 1950 | - | 3500 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White |
| | | 18.5 | 39283 | LED19GX24q-H/840 | # | 6 | 6.7 | 1950 | - | 4000 | 80 | | 50,000 | | | Damp | Requires Electronic Ballast, White |
| High Lumen Biax | | | | | | | | | | | | | | | | | |
| HLBX | 2G11 | 17 | 39073 | LED172G11/830/10 | # | 10 | 22.3 | 2150 | - | 3000 | 80 | | 40,000 | | | Damp | Requires Electronic Ballast, White |
| | | 17 | 39074 | LED172G11/835/10 | # | 10 | 22.3 | 2150 | - | 3500 | 80 | | 40,000 | | | Damp | Requires Electronic Ballast, White |
| | | 17 | 39075 | LED172G11/840/10 | # | 10 | 22.3 | 2200 | - | 4000 | 80 | | 40,000 | | | Damp | Requires Electronic Ballast, White |
| | | 17 | 39076 | LED172G11/850/10 | # | 10 | 22.3 | 2200 | - | 5000 | 80 | | 40,000 | | | Damp | Requires Electronic Ballast, White, MTO |
| RS Can | | | | | | | | | | | | | | | | | |
| | E26 | 10 | 95853 | LED10RS4/827E26P | 120 | 12 | 5.88 | 700 | | 2700 | 80 | 65W | 50,000 | ▲ | ★ | Damp | 4" Can, Pigtail Attachment |
| | | 10 | 95854 | LED10RS4/830E26P | 120 | 12 | 5.88 | 700 | | 3000 | 80 | 65W | 50,000 | ▲ | ★ | Damp | 4" Can, Pigtail Attachment |
| | | 10 | 35365 | LED10RS4/840E26P | 102 | 12 | 7.5 | 700 | | 4000 | 80 | 65W | 50,000 | ▲ | ★ | Damp | 4" Can, Pigtail Attachment |
| | GU24 | 10 | 95855 | LED10RS4/827GUP | 120 | 12 | 5.88 | 700 | | 2700 | 80 | 65W | 50,000 | ▲ | ★ | Damp | 4" Can, Pigtail Attachment |
| | | 10 | 95856 | LED10RS4/830GUP | 120 | 12 | 5.88 | 700 | | 3000 | 80 | 65W | 50,000 | ▲ | ★ | Damp | 4" Can, Pigtail Attachment |

Check ballast compatibility at GELighting.com/LED4pin-compatibility.

* The life rating is based on the hours of operation the lamp will provide before reaching 70% of its original lumen rating (L70).

** Minimum order quantity = 6

† Incandescent or halogen wattage equivalencies based on Energy Star guidelines using lumens or CBCP according to lamp type

†† Energy Star status: Certified as meeting Energy Star guidelines.

‡ UL 1993 Environmental Requirements for LED Lamps.

Location, damp – Exterior or interior location that is normally or periodically subject to condensation of moisture in, on, or adjacent to electrical equipment, and includes partially protected locations.

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Location, wet – Location in which water or other liquid can drip, splash, or flow on or against electrical equipment.

Note: Product descriptions ending in "TTP" indicate a corded blister or clamshell package nested in a tray for shelf display. Cards also designed for hook display.

| Bulb Shape | Base Type | Watts | Order Code | Description | Volts | Case Qty | MOL (in) | Lumens Initial | CBCP | Initial Color Temp | CRI | †Wattage Equivalency | *Rated Life - Hours L70 | Dimmable | †ENERGY STAR® | ‡Location Rating | Additional Information |
|---------------------------|-----------|-------|------------------|-------------|-------|----------|----------|----------------|------|--------------------|-----|----------------------|-------------------------|----------|---------------|------------------|----------------------------|
| RS Can (continued) | | | | | | | | | | | | | | | | | |
| E26 | 10 | 85153 | LED10RS6/827E26P | 120 | 12 | 7.5 | 700 | | | 2700 | 80 | 65W | 50,000 | ▲ | ★ | Damp | 6" Can, Pigtail Attachment |
| | | 85160 | LED10RS6/830E26P | 120 | 12 | 7.5 | 700 | | | 3000 | 80 | 65W | 50,000 | ▲ | ★ | Damp | 6" Can, Pigtail Attachment |
| E26 | 10 | 30367 | LED10RS6/840E26P | 120 | 12 | 7.5 | 700 | | | 4000 | 80 | 65W | 50,000 | ▲ | ★ | Damp | 6" Can, Pigtail Attachment |
| | | 95851 | LED10RS6/827GUP | 120 | 12 | 7.5 | 700 | | | 2700 | 80 | 65W | 50,000 | ▲ | ★ | Damp | 6" Can, Pigtail Attachment |
| GU24 | 10 | 95852 | LED10RS6/830GUP | 120 | 12 | 7.5 | 700 | | | 3000 | 80 | 65W | 50,000 | ▲ | ★ | Damp | 6" Can, Pigtail Attachment |
| | | 70120 | LED13RS6/827E26P | 120 | 12 | 7.5 | 1000 | | | 2700 | 80 | 90W | 50,000 | ▲ | ★ | Damp | 6" Can, Pigtail Attachment |
| E26 | 13 | 70122 | LED13RS6/830E26P | 120 | 12 | 7.5 | 1000 | | | 3000 | 80 | 90W | 50,000 | ▲ | ★ | Damp | 6" Can, Pigtail Attachment |
| | | 70124 | LED13RS6/827GUP | 120 | 12 | 7.5 | 1000 | | | 2700 | 80 | 90W | 50,000 | ▲ | ★ | Damp | 6" Can, Pigtail Attachment |
| GU24 | 13 | 70127 | LED13RS6/830GUP | 120 | 12 | 7.5 | 1000 | | | 3000 | 80 | 90W | 50,000 | ▲ | ★ | Damp | 6" Can, Pigtail Attachment |

| Bulb | Watts | Order Code | Description | Base | Qty | MOL (in.) | Initial Lumens | Initial Color Temp | CRI | Life (L70) | DLC | UL | ‡Location Rating | Additional Information |
|------|-------|------------|-------------|------|-----|-----------|----------------|--------------------|-----|------------|-----|----|------------------|------------------------|
|------|-------|------------|-------------|------|-----|-----------|----------------|--------------------|-----|------------|-----|----|------------------|------------------------|

LED Tubes

Integrated 4 ft LED Plastic Tubes (Operates on Instant Start or Program Start Ballast)

| | | | | | | | | | | | | | | |
|----|-------|----------------|----------------|-----|----|------|-------|-------|-----|-----|-----|------|------------------------|------------------------|
| T8 | 18 | 31550 | LED18ET8/4/830 | G13 | 25 | 48 | 2150 | 3500K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 18 | 93133 | LED18ET8/4/835 | G13 | 25 | 48 | 2250 | 3500K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 18 | 93135 | LED18ET8/4/840 | G13 | 25 | 48 | 2250 | 4000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 18 | 93140 | LED18ET8/4/850 | G13 | 25 | 48 | 2350 | 5000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 15 | 62399 | LED15ET8/4/830 | G13 | 25 | 48 | 1850 | 3000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 15 | 62401 | LED15ET8/4/835 | G13 | 25 | 48 | 1950 | 3500K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 15 | 62402 | LED15ET8/4/840 | G13 | 25 | 48 | 1950 | 4000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 15 | 62409 | LED15ET8/4/850 | G13 | 25 | 48 | 2050 | 5000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 15 | 62410 | LED15ET8/4/865 | G13 | 25 | 48 | 1950 | 6500K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 12 | 61218 | LED12ET8/4/830 | G13 | 25 | 48 | 1550 | 3000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 12 | 61223 | LED12ET8/4/835 | G13 | 25 | 48 | 1600 | 3500K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 12 | 61271 | LED12ET8/4/840 | G13 | 25 | 48 | 1600 | 4000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 12 | 61327 | LED12ET8/4/850 | G13 | 25 | 48 | 1700 | 5000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| 12 | 61329 | LED12ET8/4/865 | G13 | 25 | 48 | 1600 | 6500K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast | |

Integrated 3 ft LED Plastic Tubes (Operates on Instant Start or Program Start Ballast)

| | | | | | | | | | | | | | | |
|----|----|-------|----------------|-----|----|----|------|-------|-----|-----|---|-----|------|------------------------|
| T8 | 12 | 31554 | LED12ET8/3/830 | G13 | 25 | 36 | 1350 | 3500K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 12 | 26544 | LED12ET8/3/835 | G13 | 25 | 36 | 1400 | 3500K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 12 | 26625 | LED12ET8/3/840 | G13 | 25 | 36 | 1400 | 4000K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 12 | 26627 | LED12ET8/3/850 | G13 | 25 | 36 | 1500 | 5000K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |

Integrated 2 ft LED Plastic Tubes (Operates on Instant Start or Program Start Ballast)

| | | | | | | | | | | | | | | |
|----|---|-------|---------------|-----|----|----|------|-------|-----|-----|-----|-----|------|------------------------|
| T8 | 9 | 31557 | LED9ET8/2/830 | G13 | 25 | 24 | 1100 | 3500K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 9 | 26635 | LED9ET8/2/835 | G13 | 25 | 24 | 1100 | 3500K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 9 | 26648 | LED9ET8/2/840 | G13 | 25 | 24 | 1100 | 4000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 9 | 26676 | LED9ET8/2/850 | G13 | 25 | 24 | 1100 | 5000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |

Integrated U6 LED Plastic Tubes (Operates on Instant Start or Program Start Ballast)

| | | | | | | | | | | | | | | |
|----|----|-------|-----------------|-----|----|------|------|-------|-----|-----|---|-----|------|------------------------|
| T8 | 13 | 43120 | LED13ET8/U6/830 | G13 | 12 | 22.5 | 1800 | 3000K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 13 | 43125 | LED13ET8/U6/835 | G13 | 12 | 22.5 | 1850 | 3500K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 13 | 43129 | LED13ET8/U6/840 | G13 | 12 | 22.5 | 1900 | 4000K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 13 | 43130 | LED13ET8/U6/850 | G13 | 12 | 22.5 | 1900 | 5000K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |

Integrated 4 ft LED Glass Tubes (Type A)

| | | | | | | | | | | | | | | |
|----|----|-------|------------------|-----|----|----|------|-------|-----|-----|-----|-----|------|------------------------|
| T8 | 18 | 35767 | LED18ET8/G/4/830 | G13 | 20 | 48 | 2200 | 3000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 18 | 35768 | LED18ET8/G/4/835 | G13 | 20 | 48 | 2300 | 3500K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 18 | 35769 | LED18ET8/G/4/840 | G13 | 20 | 48 | 2300 | 4000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 18 | 35772 | LED18ET8/G/4/850 | G13 | 20 | 48 | 2400 | 5000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 18 | 35773 | LED18ET8/G/4/865 | G13 | 20 | 48 | 2300 | 6500K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 15 | 35790 | LED15ET8/G/4/830 | G13 | 20 | 48 | 2000 | 3000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 15 | 35791 | LED15ET8/G/4/835 | G13 | 20 | 48 | 2000 | 3500K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 15 | 35793 | LED15ET8/G/4/840 | G13 | 20 | 48 | 2000 | 4000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 15 | 35797 | LED15ET8/G/4/850 | G13 | 20 | 48 | 2100 | 5000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |

Check ballast compatibility at gelighting.com/LED4pin-compatibility.

* The life rating is based on the hours of operation the lamp will provide before reaching 70% of its original lumen rating (L70).

** Minimum order quantity = 6

† Incandescent or halogen wattage equivalencies based on Energy Star guidelines using lumens or CBCP according to lamp type

†† Energy Star status: Certified as meeting Energy Star guidelines.

‡ UL 1993 Environmental Requirements for LED Lamps.

Location, damp - Exterior or interior location that is normally or periodically subject to condensation of moisture in, on, or adjacent to electrical equipment, and includes partially protected locations.

Location, dry - Location not normally subject to dampness, may include a location subject to temporary dampness, i.e., building under construction, provided ventilation is adequate to prevent an accumulation of moisture.

Location, wet - Location in which water or other liquid can drip, splash, or flow on or against electrical equipment.

Note: Product descriptions ending in "TTP" indicate a carded blister or clamshell package nested in a tray for shelf display. Cards also designed for hook display.

LED Lamps, Tubes and Modules

| Bulb | Watts | Order Code | Description | Base | Qty | MOL (in.) | Initial Lumens | Initial Color Temp | CRI | Life (L70) | DLC | UL | †Location Rating | Additional Information |
|--|--|------------|-------------------|------|-----|-----------|----------------|--------------------|-----|------------|-----|-----|------------------|------------------------------|
| LED Tubes (continued) | | | | | | | | | | | | | | |
| Integrated 4 ft LED Glass Tubes (Type A) (continued) | | | | | | | | | | | | | | |
| T8 | 15 | 35798 | LED15ET8/G/4/865 | G13 | 20 | 48 | 2000 | 6500K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 15 | 43284 | LED12ET8/G/4/830 | G13 | 20 | 48 | 1600 | 3000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 15 | 43288 | LED12ET8/G/4/835 | G13 | 20 | 48 | 1650 | 3500K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 15 | 43291 | LED12ET8/G/4/840 | G13 | 20 | 48 | 1650 | 4000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 15 | 43293 | LED12ET8/G/4/850 | G13 | 20 | 48 | 1750 | 5000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| Integrated 4 ft Value LED Glass Tubes (Type A) | | | | | | | | | | | | | | |
| T8 | 15 | 35896 | LED15ET8/835-V6P | G13 | 6 | 48 | 1750 | 3500K | 80+ | 36K | No | Yes | Damp | Instant or PRS Ballast |
| | 15 | 35900 | LED15ET8/840-V6P | G13 | 6 | 48 | 1750 | 4000K | 80+ | 36K | No | Yes | Damp | Instant or PRS Ballast |
| | 15 | 35911 | LED15ET8/850-V6P | G13 | 6 | 48 | 1800 | 5000K | 80+ | 36K | No | Yes | Damp | Instant or PRS Ballast |
| | 15 | 35913 | LED15ET8/865-V6P | G13 | 6 | 48 | 1800 | 6500K | 80+ | 36K | No | Yes | Damp | Instant or PRS Ballast |
| Integrated 3 ft LED Glass Tubes (Type A) | | | | | | | | | | | | | | |
| T8 | 11 | 35783 | LED11ET8/G/3/830 | G13 | 20 | 36 | 1350 | 3000K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 11 | 35784 | LED11ET8/G/3/835 | G13 | 20 | 36 | 1400 | 3500K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 11 | 35788 | LED11ET8/G/3/840 | G13 | 20 | 36 | 1400 | 4000K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| | 11 | 35789 | LED11ET8/G/3/850 | G13 | 20 | 36 | 1500 | 5000K | 80+ | 50K | - | Yes | Damp | Instant or PRS Ballast |
| Integrated 2 ft LED Glass Tubes (Type A) | | | | | | | | | | | | | | |
| T8 | 8 | 35775 | LED8ET8/G/2/830 | G13 | 20 | 24 | 1100 | 3000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 8 | 35776 | LED8ET8/G/2/835 | G13 | 20 | 24 | 1100 | 3500K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 8 | 35778 | LED8ET8/G/2/840 | G13 | 20 | 24 | 1100 | 4000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| | 8 | 35779 | LED8ET8/G/2/850 | G13 | 20 | 24 | 1100 | 5000K | 80+ | 50K | Yes | Yes | Damp | Instant or PRS Ballast |
| Remote 4 ft LED Plastic Tubes (Operates with Remote Driver) | | | | | | | | | | | | | | |
| T8 | 18 | 94381 | LED21T8/4/835 | G13 | 10 | 48 | 2400 | 3500K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 18 | 94382 | LED21T8/4/840 | G13 | 10 | 48 | 2500 | 4000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 18 | 94383 | LED21T8/4/850 | G13 | 10 | 48 | 2500 | 5000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 18 | 26059 | LED21T8/4/865 | G13 | 10 | 48 | 2400 | 6500K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 13 | 38954 | LED15T8/4/830 | G13 | 10 | 48 | 1700 | 3000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 13 | 38957 | LED15T8/4/835 | G13 | 10 | 48 | 1800 | 3500K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 13 | 38958 | LED15T8/4/840 | G13 | 10 | 48 | 1800 | 4000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 13 | 38962 | LED15T8/4/850 | G13 | 10 | 48 | 1800 | 5000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 13 | 38964 | LED15T8/4/865 | G13 | 10 | 48 | 1800 | 6500K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | Remote 3 ft LED Plastic Tubes (Operates with Remote Driver) | | | | | | | | | | | | | |
| T8 | 16 | 82343 | LED18T8/3/835 | G13 | 10 | 36 | 1800 | 3500K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 16 | 82345 | LED18T8/3/840 | G13 | 10 | 36 | 1800 | 4000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 16 | 82346 | LED18T8/3/850 | G13 | 10 | 36 | 1800 | 5000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| Remote 2 ft LED Plastic Tubes (Operates with Remote Driver) | | | | | | | | | | | | | | |
| T8 | 8 | 65706 | LED9T8/2/835 | G13 | 20 | 24 | 1000 | 3500K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 8 | 65707 | LED9T8/2/840 | G13 | 20 | 24 | 1100 | 4000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 8 | 65711 | LED9T8/2/850 | G13 | 20 | 24 | 1100 | 5000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 8 | 92997 | LED9T8/2/865 | G13 | 20 | 24 | 1000 | 6500K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| Remote LED Plastic U-Tubes (Operates with Remote Driver) | | | | | | | | | | | | | | |
| T8 | 12 | 28084 | LED14T8/U/835 | G13 | 15 | 22.5 | 1700 | 3500K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 12 | 28164 | LED14T8/U/840 | G13 | 15 | 22.5 | 1700 | 4000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| Remote 8 ft LED Glass Tubes (Operates on Remote Driver) | | | | | | | | | | | | | | |
| T8 | 30 | 62326 | LED36T8/G/8/830 | Fo8 | 20 | 96 | 4200 | 3000K | 80+ | 50K | - | Yes | Damp | Requires Driver, Made in USA |
| | 30 | 62327 | LED36T8/G/8/835 | Fo8 | 20 | 96 | 4400 | 3500K | 80+ | 50K | - | Yes | Damp | Requires Driver, Made in USA |
| | 30 | 62329 | LED36T8/G/8/840 | Fo8 | 20 | 96 | 4400 | 4000K | 80+ | 50K | - | Yes | Damp | Requires Driver, Made in USA |
| | 30 | 62349 | LED36T8/G/8/850 | Fo8 | 20 | 96 | 4500 | 5000K | 80+ | 50K | - | Yes | Damp | Requires Driver, Made in USA |
| Remote 4 ft LED Glass Tubes (Operates on Remote Driver) | | | | | | | | | | | | | | |
| T8 | 18 | 62428 | LED21T8/G/4/835 | G13 | 10 | 48 | 2400 | 3500K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 18 | 62485 | LED21T8/G/4/840 | G13 | 10 | 48 | 2500 | 4000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 18 | 62487 | LED21T8/G/4/850 | G13 | 10 | 48 | 2500 | 5000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 18 | 62406 | LED21T8/G/4/835HL | G13 | 10 | 48 | 2750 | 3500K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 18 | 62407 | LED21T8/G/4/840HL | G13 | 10 | 48 | 2800 | 4000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 18 | 62408 | LED21T8/G/4/850HL | G13 | 10 | 48 | 2800 | 5000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 18 | 91475 | LED21T8/G/4/830US | G13 | 10 | 48 | 2600 | 3000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver, Made in USA |
| | 18 | 91496 | LED21T8/G/4/835US | G13 | 10 | 48 | 2600 | 3500K | 80+ | 50K | Yes | Yes | Damp | Requires Driver, Made in USA |
| | 18 | 91497 | LED21T8/G/4/840US | G13 | 10 | 48 | 2600 | 4000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver, Made in USA |
| | 18 | 91498 | LED21T8/G/4/850US | G13 | 10 | 48 | 2600 | 5000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver, Made in USA |
| | 13 | 38944 | LED15T8/G/4/830 | G13 | 10 | 48 | 1700 | 3000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 13 | 38945 | LED15T8/G/4/835 | G13 | 10 | 48 | 1750 | 3500K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |

* The life rating is based on the hours of operation the lamp will provide before reaching 70% of its original lumen rating (L70).

** Minimum order quantity = 6

† Incandescent or halogen wattage equivalencies based on Energy Star guidelines using lumens or CBPB according to lamp type

†† Energy Star status: Certified as meeting Energy Star guidelines.

‡ UL 1993 Environmental Requirements for LED Lamps.

Location, damp - Exterior or interior location that is normally or periodically subject to condensation of moisture in, on, or adjacent to electrical equipment, and includes partially protected locations.

Location, dry - Location not normally subject to dampness, may include a location subject to temporary dampness, i.e., building under construction, provided ventilation is adequate to prevent an accumulation of moisture.

Location, wet - Location in which water or other liquid can drip, splash, or flow on or against electrical equipment.

Note: Product descriptions ending in "TTP" indicate a carded blister or clamshell package nested in a tray for shelf display. Cards also designed for hook display.

| Bulb | Watts | Order Code | Description | Base | Qty | MOL (in.) | Initial Lumens | Initial Color Temp | CRI | Life (L70) | DLC | UL | †Location Rating | Additional Information |
|------|-------|------------|-------------|------|-----|-----------|----------------|--------------------|-----|------------|-----|----|------------------|------------------------|
|------|-------|------------|-------------|------|-----|-----------|----------------|--------------------|-----|------------|-----|----|------------------|------------------------|

LED Tubes (continued)

Remote 4 ft LED Glass Tubes (Operates on Remote Driver) (continued)

| | | | | | | | | | | | | | | |
|----|----|-------|-----------------|-----|----|----|------|-------|-----|-----|-----|-----|------|-----------------|
| T8 | 13 | 38950 | LED15T8/G/4/840 | G13 | 10 | 48 | 1800 | 4000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 13 | 38951 | LED15T8/G/4/850 | G13 | 10 | 48 | 1800 | 5000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 13 | 38952 | LED15T8/G/4/865 | G13 | 10 | 48 | 1800 | 6500K | 80+ | 50K | - | YES | Damp | Requires Driver |
| | 10 | 76194 | LED12T8/G/4/830 | G13 | 10 | 48 | 1550 | 3000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 10 | 76264 | LED12T8/G/4/835 | G13 | 10 | 48 | 1600 | 3500K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 10 | 76265 | LED12T8/G/4/840 | G13 | 10 | 48 | 1650 | 4000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 10 | 76271 | LED12T8/G/4/850 | G13 | 10 | 48 | 1650 | 5000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 10 | 76278 | LED12T8/G/4/865 | G13 | 10 | 48 | 1650 | 6500K | 80+ | 50K | - | Yes | Damp | Requires Driver |

Remote 4 ft LED Glass T5 Tubes (Operates on Remote Driver)

| | | | | | | | | | | | | | | |
|----|----|-------|-----------------|----|----|----|------|-------|-----|-----|---|-----|------|-----------------|
| T5 | 31 | 91973 | LED36T5/G/4/830 | G5 | 20 | 46 | 4100 | 3000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 31 | 91976 | LED36T5/G/4/835 | G5 | 20 | 46 | 4200 | 3500K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 31 | 91977 | LED36T5/G/4/840 | G5 | 20 | 46 | 4400 | 4000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 31 | 91997 | LED36T5/G/4/850 | G5 | 20 | 46 | 4500 | 5000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 31 | 92006 | LED36T5/G/4/865 | G5 | 20 | 46 | 4500 | 6500K | 80+ | 50K | - | Yes | Damp | Requires Driver |

Remote 3 ft LED Glass Tubes (Operates on Remote Driver)

| | | | | | | | | | | | | | | |
|----|----|-------|-----------------|-----|----|----|------|-------|-----|-----|---|-----|------|-----------------|
| T8 | 16 | 38257 | LED18T8/G/3/830 | G13 | 10 | 36 | 1800 | 3000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 16 | 38258 | LED18T8/G/3/835 | G13 | 10 | 36 | 1800 | 3500K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 16 | 38260 | LED18T8/G/3/840 | G13 | 10 | 36 | 1900 | 4000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 16 | 38261 | LED18T8/G/3/850 | G13 | 10 | 36 | 1900 | 5000K | 80+ | 50K | - | Yes | Damp | Requires Driver |

Remote 2 ft LED Glass Tubes (Operates on Remote Driver)

| | | | | | | | | | | | | | | |
|----|---|-------|----------------|-----|----|----|------|-------|-----|-----|-----|-----|------|-----------------|
| T8 | 8 | 38933 | LED9T8/G/2/830 | G13 | 20 | 24 | 1000 | 3000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 8 | 38935 | LED9T8/G/2/835 | G13 | 20 | 24 | 1000 | 3500K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 8 | 38936 | LED9T8/G/2/840 | G13 | 20 | 24 | 1100 | 4000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 8 | 38939 | LED9T8/G/2/850 | G13 | 20 | 24 | 1100 | 5000K | 80+ | 50K | Yes | Yes | Damp | Requires Driver |
| | 8 | 38943 | LED9T8/G/2/865 | G13 | 20 | 24 | 1000 | 6500K | 80+ | 50K | - | Yes | Damp | Requires Driver |

Remote 2 ft LED Glass T5 Tubes (Operates on Remote Driver)

| | | | | | | | | | | | | | | |
|----|----|-------|-----------------|----|----|----|------|-------|-----|-----|---|-----|------|-----------------|
| T5 | 13 | 76150 | LED15T5/G/2/830 | G5 | 20 | 24 | 1800 | 3000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 13 | 76164 | LED15T5/G/2/835 | G5 | 20 | 24 | 1850 | 3500K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 13 | 76129 | LED15T5/G/2/840 | G5 | 20 | 24 | 1900 | 4000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 13 | 76167 | LED15T5/G/2/850 | G5 | 20 | 24 | 1900 | 5000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 13 | 76192 | LED15T5/G/2/865 | G5 | 20 | 24 | 1900 | 6500K | 80+ | 50K | - | Yes | Damp | Requires Driver |

Remote Glass U6 Tubes (Operates on Remote Driver)

| | | | | | | | | | | | | | | |
|----|----|-------|------------------|-----|----|------|------|-------|-----|-----|---|-----|------|-----------------|
| T8 | 13 | 43131 | LED15T8/G/U6/830 | G13 | 12 | 22.5 | 1700 | 3000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 13 | 43135 | LED15T8/G/U6/835 | G13 | 12 | 22.5 | 1800 | 3500K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 13 | 43143 | LED15T8/G/U6/840 | G13 | 12 | 22.5 | 1800 | 4000K | 80+ | 50K | - | Yes | Damp | Requires Driver |
| | 13 | 43145 | LED15T8/G/U6/850 | G13 | 12 | 22.5 | 1800 | 5000K | 80+ | 50K | - | Yes | Damp | Requires Driver |

| | Watts | Order Code | Description | Input Volts (V) | Qty | Output Current (A) | Fre- quency | Eff | Output | Output Voltage (V) | Temp (Min) | Temp (Max) | Dimmable | Additional Information |
|--|-------|------------|-------------|-----------------|-----|--------------------|-------------|-----|--------|--------------------|------------|------------|----------|------------------------|
|--|-------|------------|-------------|-----------------|-----|--------------------|-------------|-----|--------|--------------------|------------|------------|----------|------------------------|

Remote Drivers

Lightech™ Drivers - Non-dimming

| | | | | | | | | | | | | | | |
|--|----|-------|------------------|---------|----|--------|----------|-----|----|-------|------|-------|--|-----------------------------|
| | 18 | 93100 | LED9T8/DR/UN/2L | 120-277 | 10 | 0.27x2 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | | Maximum 2 Tube (non potted) |
| | 30 | 38970 | LED15T8/DR/UN/2L | 120-277 | 10 | .44x2 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | | Maximum 2 Tube (non potted) |
| | 36 | 82347 | LED18T8/DR/UN/2L | 120-277 | 10 | 0.53x2 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | | Maximum 2 Tube (non potted) |
| | 24 | 76289 | LED12T8/DR/2L | 120-277 | 10 | .21x2 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | | Maximum 2 Tube |
| | 21 | 94384 | LED21T8/DR/1L | 120-277 | 10 | 0.62 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | | Maximum 1 Tube |
| | 42 | 94385 | LED21T8/DR/2L | 120-277 | 10 | 0.62x2 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | | Maximum 2 Tube |

Lightech™ Drivers - Dimming

| | | | | | | | | | | | | | | |
|--|-----|-------|------------------|---------|----|--------|----------|-----|----|-------|------|-------|---|----------------|
| | 42 | 28174 | LED14/DR/D3L | 120-277 | 10 | 0.43x3 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 3 Tube |
| | 24 | 76290 | LED12T8/DR/D2L | 120-277 | 10 | .21x2 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 2 Tube |
| | 48 | 76318 | LED12T8/DR/D4L | 120-277 | 10 | .21x4 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 4 Tube |
| | 30 | 38974 | LED15T8/DR/D2L | 120-277 | 10 | .44x2 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 2 Tube |
| | 60 | 38975 | LED15T8/DR/D4L | 120-277 | 10 | .44x4 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 4 Tube |
| | 36 | 88141 | LED18T8/DR/D2L | 120-277 | 10 | 0.53x2 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 2 Tube |
| | 72 | 88139 | LED18T8/DR/D4L | 120-277 | 10 | 0.53x4 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 4 Tube |
| | 42 | 60041 | LED21T8/DR/D2L | 120-277 | 10 | 0.62x2 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 2 Tube |
| | 84 | 62030 | LED21T8/DR/D4L | 120-277 | 10 | 0.62x4 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 4 Tube |
| | 45 | 34016 | LED21T8/DR/VLC2L | 120-277 | 10 | 0.62x2 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 2 Tube |
| | 72 | 63126 | LED36T8/DR/D2L | 120-277 | 10 | 1.06x2 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 2 Tube |
| | 144 | 92013 | LED36T8/DR/D4L | 120-277 | 10 | 1.06x4 | 50/60 Hz | >.9 | DC | 26-34 | -4°F | 113°F | ▲ | Maximum 4 Tube |

* The life rating is based on the hours of operation the lamp will provide before reaching 70% of its original lumen rating (L70).

** Minimum order quantity = 6

† Incandescent or halogen wattage equivalencies based on Energy Star guidelines using lumens or CBPB according to lamp type

†† Energy Star status: Certified as meeting Energy Star guidelines.

‡ UL 1993 Environmental Requirements for LED Lamps.






Location, damp - Exterior or interior location that is normally or periodically subject to condensation of moisture in, on, or adjacent to electrical equipment, and includes partially protected locations.

Location, dry - Location not normally subject to dampness, may include a location subject to temporary dampness, i.e., building under construction, provided ventilation is adequate to prevent an accumulation of moisture.

Location, wet - Location in which water or other liquid can drip, splash, or flow on or against electrical equipment.

Note: Product descriptions ending in "TP" indicate a carded blister or clamshell package nested in a tray for shelf display. Cards also designed for hook display.

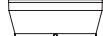
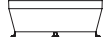
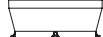


LED Lamps, Tubes and Modules


| Series | Order Code | Description | Body Color | Nominal Lumens ¹ | CCT (Kelvin) | CRI | Nominal Watts | Color Variation (MacAdam) | Rated Drive Current (mA) | Rated Life (hours) ² |
|--|------------|----------------|------------|-----------------------------|--------------|------|---------------|---------------------------|--------------------------|---------------------------------|
| Infusion™ LED Modules | | | | | | | | | | |
|  | 19192 | M1000/827/W/G4 | White | 1000 | 2700 | > 80 | 10.5 | < 4-step | 700 | 50,000 |
| | 19193 | M1000/830/W/G4 | White | 1100 | 3000 | > 80 | 10.5 | < 4-step | 700 | 50,000 |
| | 19195 | M1000/835/W/G4 | White | 1100 | 3500 | > 80 | 10.5 | < 4-step | 700 | 50,000 |
| | 19196 | M1000/930/W/G4 | White | 800 | 3000 | 90 | 10.5 | < 2-step | 700 | 50,000 |
| | 19197 | M1000/840/W/G4 | White | 1100 | 4000 | > 80 | 10.5 | < 4-step | 700 | 50,000 |
|  | 19198 | M1500/827/W/G4 | White | 1400 | 2700 | > 80 | 14.5 | < 4-step | 700 | 50,000 |
| | 19200 | M1500/830/W/G4 | White | 1500 | 3000 | > 80 | 14.5 | < 4-step | 700 | 50,000 |
| | 19201 | M1500/835/W/G4 | White | 1500 | 3500 | > 80 | 14.5 | < 4-step | 700 | 50,000 |
| | 19202 | M1500/930/W/G4 | White | 1200 | 3000 | 90 | 14.5 | < 2-step | 700 | 50,000 |
| | 19207 | M1500/840/W/G4 | White | 1500 | 4000 | > 80 | 14.5 | < 4-step | 700 | 50,000 |
|  | 19209 | M2000/827/W/G4 | White | 2000 | 2700 | > 80 | 21 | < 4-step | 1400 | 50,000 |
| | 19210 | M2000/830/W/G4 | White | 2100 | 3000 | > 80 | 21 | < 4-step | 1400 | 50,000 |
| | 19211 | M2000/835/W/G4 | White | 2200 | 3500 | > 80 | 21 | < 4-step | 1400 | 50,000 |
| | 19214 | M2000/930/W/G4 | White | 1700 | 3000 | 90 | 21 | < 2-step | 1400 | 50,000 |
| | 19215 | M2000/840/W/G4 | White | 2200 | 4000 | > 80 | 21 | < 4-step | 1400 | 50,000 |
|  | 19216 | M3000/827/W/G4 | White | 2800 | 2700 | > 80 | 29.5 | < 4-step | 1400 | 50,000 |
| | 19218 | M3000/830/W/G4 | White | 3000 | 3000 | > 80 | 29.5 | < 4-step | 1400 | 50,000 |
| | 19220 | M3000/835/W/G4 | White | 3000 | 3500 | > 80 | 29.5 | < 4-step | 1400 | 50,000 |
| | 19224 | M3000/930/W/G4 | White | 2300 | 3000 | 90 | 29.5 | < 2-step | 1400 | 50,000 |
| | 19225 | M3000/840/W/G4 | White | 3100 | 4000 | > 80 | 29.5 | < 4-step | 1400 | 50,000 |
|  | 19226 | M4500/827/W/G4 | White | 4300 | 2700 | > 80 | 46 | < 4-step | 1400 | 50,000 |
| | 19230 | M4500/830/W/G4 | White | 4500 | 3000 | > 80 | 46 | < 4-step | 1400 | 50,000 |
| | 19231 | M4500/835/W/G4 | White | 4600 | 3500 | > 80 | 46 | < 4-step | 1400 | 50,000 |
| | 19307 | M4500/930/W/G4 | White | 3600 | 3000 | 90 | 46 | < 2-step | 1400 | 50,000 |
| | 19337 | M4500/840/W/G4 | White | 4700 | 4000 | > 80 | 46 | < 4-step | 1400 | 50,000 |

¹Lumens are 'hot lumens' measured at steady state at a T_p temperature of 65°C

²Rated life refers to 70% lumen maintenance (L70).

Note: For use in dry location only or in luminaire which is designed and tested to an environmental location appropriate for intended operating conditions.


| Series | Order Code | Description | Body Color | Nominal Lumens ¹ | CCT (Kelvin) | CRI | Nominal Watts | Beam Angle (°) | Rated Drive Current (mA) | Rated Life (hours) ² |
|--|------------|-------------|------------|-----------------------------|--------------|-----|---------------|----------------|--------------------------|---------------------------------|
| Infusion™ LED Downlight Modules (DLM) | | | | | | | | | | |
|  | 99607 | DLM1000/927 | White | 1000 | 2700 | 92 | 13 | 90 | 700 | 50,000 |
| | 99608 | DLM1000/930 | White | 1000 | 3000 | 92 | 13 | 90 | 700 | 50,000 |
| | 99609 | DLM1000/935 | White | 1000 | 3500 | 92 | 13 | 90 | 700 | 50,000 |
| | 99610 | DLM1000/940 | White | 1000 | 4000 | 92 | 13 | 90 | 700 | 50,000 |
|  | 99611 | DLM1500/927 | White | 1475 | 2700 | 92 | 19 | 90 | 700 | 50,000 |
| | 99612 | DLM1500/930 | White | 1475 | 3000 | 92 | 19 | 90 | 700 | 50,000 |
| | 99613 | DLM1500/935 | White | 1475 | 3500 | 92 | 19 | 90 | 700 | 50,000 |
| | 99614 | DLM1500/940 | White | 1475 | 4000 | 92 | 19 | 90 | 700 | 50,000 |
|  | 99615 | DLM2000/927 | White | 2000 | 2700 | 92 | 25 | 90 | 700 | 50,000 |
| | 99616 | DLM2000/930 | White | 2000 | 3000 | 92 | 25 | 90 | 700 | 50,000 |
| | 99617 | DLM2000/935 | White | 2000 | 3500 | 92 | 25 | 90 | 700 | 50,000 |
| | 99618 | DLM2000/940 | White | 2000 | 4000 | 92 | 25 | 90 | 700 | 50,000 |
|  | 99619 | DLM3000/927 | White | 3000 | 2700 | 92 | 37 | 90 | 1,400 | 50,000 |
| | 99620 | DLM3000/930 | White | 3000 | 3000 | 92 | 37 | 90 | 1,400 | 50,000 |
| | 99621 | DLM3000/935 | White | 3000 | 3500 | 92 | 37 | 90 | 1,400 | 50,000 |
| | 99622 | DLM3000/940 | White | 3000 | 4000 | 92 | 37 | 90 | 1,400 | 50,000 |
|  | 99623 | DLM4000/927 | White | 3925 | 2700 | 92 | 49 | 90 | 1,400 | 50,000 |
| | 99624 | DLM4000/930 | White | 3925 | 3000 | 92 | 49 | 90 | 1,400 | 50,000 |
| | 99625 | DLM4000/935 | White | 3925 | 3500 | 92 | 49 | 90 | 1,400 | 50,000 |
| | 99626 | DLM4000/940 | White | 3925 | 4000 | 92 | 49 | 90 | 1,400 | 50,000 |


| Series | Order Code | Description | Body Color | Nominal Lumens ¹ | CCT (Kelvin) | CRI | Nominal Watts | Color Variation (MacAdam) | Rated Drive Current (mA) | Rated Life (hours) ² |
|--|------------|--------------|------------|-----------------------------|--------------|------|---------------|---------------------------|--------------------------|---------------------------------|
| Infusion™ LED Narrow Punch Modules (NPM) | | | | | | | | | | |
|  | 98471 | MP30/827/W/N | White | 1300 | 2700 | > 80 | 25 | < 4-step | 700 | 50,000 |
| | 98472 | MP30/830/W/N | White | 1400 | 3000 | > 80 | 25 | < 4-step | 700 | 50,000 |
| | 98473 | MP30/930/W/N | White | 1100 | 3000 | > 87 | 25 | < 2-step | 700 | 50,000 |
| | 98474 | MP30/840/W/N | White | 1500 | 4000 | > 80 | 25 | < 4-step | 700 | 50,000 |

¹Lumens are 'hot lumens' measured at steady state at a T_p temperature of 65°C

²Rated life refers to 70% lumen maintenance (L70).

Note: For use in dry location only or in luminaire which is designed and tested to an environmental location appropriate for intended operating conditions.

| | Order Code | Description | Body Color | Corresponding Module Series | Beam Category | Nominal Beam Angle (°) |
|---|------------------|-----------------------------------|------------|--------------------------------|---------------------|------------------------|
| Infusion™ Optics | | | | | | |
|  | 97204 | OP1000/SP/W | White | 1000 | Spot | 14 |
| | 97205 | OP1500/SP/W | White | 1500 | Spot | 14 |
| | 97208 | OP1000/1500/FL/W OP3000/WFL/W | White | 1000 and 1500 3000 and 4500 | Flood Wide Flood | 25 / 25 35 / 35 |
| | 65294 | OP1000/1500/FL/B, OP3000/WFL/B | Black | 1000 and 1500 3000 and 4500 | Flood Wide Flood | 25 / 25 35 / 35 |
| | 98480 | OP10001500FL100W | White | 1000 and 1500 | Flood | 25 / 25 |
| | 98486 | OP10001500FL100B | Black | 1000 and 1500 | Flood | 25 / 25 |
| | 99995 | OP10001500WFL50W | White | 1000 and 1500 | Wide Flood | 25 / 25 |
| | 99996 | OP10001500WFL50B | Black | 1000 and 1500 | Wide Flood | 25 / 25 |
| | 97206 | OP1000/1500/WFL | White | 1000 and 1500 | Wide Flood | 35 / 35 |
| | 65295 | OP1000/1500/WFLB | Black | 1000 and 1500 | Wide Flood | 35 / 35 |
| | 98483 | OP10/15/WFL/100W | White | 1000 and 1500 | Wide Flood | 35 / 35 |
| | 98489 | OP10/15/WFL/100B | Black | 1000 and 1500 | Wide Flood | 35 / 35 |
| | 97207 | OP1000/1500/WFL | White | 1000 and 1500 | Very Wide Flood | 55 / 55 |
| | 65296 | OP1000/1500WFLB | Black | 1000 and 1500 | Very Wide Flood | 55 / 55 |
| | 98485 | OP10-45/WVFL100W | White | 1000, 1500, 2000, 3000, 4500 | Very Wide Flood | 55 / 55 / 55 / 55 / 55 |
| | 98491 | OP10-45/WVFL100B | Black | 1000, 1500, 2000, 3000, 4500 | Very Wide Flood | 55 / 55 / 55 / 55 / 55 |
| | 64996 | OP2000/3000/FL | White | 2000, 3000, 4500 | Flood | 25 / 25 / 25 |
| | 65297 | OP2000/3000/FL/B | Black | 2000, 3000, 4500 | Flood | 25 / 25 / 25 |
| | 98481 | OP2000/FL/100/W | White | 2000 | Flood | 25 |
| | 98487 | OP2000/FL/100/B | Black | 2000 | Flood | 25 |
| | 64995 | OP2000/WFL | White | 2000 | Wide Flood | 35 |
| | 65298 | OP2000/WFL/B | Black | 2000 | Wide Flood | 35 |
| | 98484 | OP20-45/WFL/100W | White | 2000, 3000, 4500 | Wide Flood | 35 / 35 / 35 |
| | 98490 | OP20-45/WFL/100B | Black | 2000, 3000, 4500 | Wide Flood | 35 / 35 / 35 |
| | 64994 | OP2000/3000/WVFL | White | 2000, 3000, 4500 | Very Wide Flood | 55 / 55 |
| | 65301 | OP2000/3000WVFLB | Black | 2000, 3000, 4500 | Very Wide Flood | 55 / 55 |
| | 98482 | OP30004500FL100W | White | 3000 and 4500 | Flood | 25 / 25 |
| | 98488 | OP30004500FL100B | Black | 3000 and 4500 | Flood | 25 / 25 |
| | 94637 | OP30/SP/50MM/W | White | NPM | Narrow Spot | 13 |
| | 94638 | OP30/SP/50MM/B | Black | NPM | Narrow Spot | 13 |
| 94635 | OP30/SP/75MM/G2W | White | NPM | Narrow Spot | 11 | |
| 94636 | OP30/SP/75MM/G2B | Black | NPM | Narrow Spot | 11 | |
| 94633 | OP30/SP100MM/G2W | White | NPM | Narrow Spot | 8 | |
| 94634 | OP30/SP100MM/G2B | Black | NPM | Narrow Spot | 8 | |
| 98477 | OP30/SP/75MM/W | White | NPM | Narrow Spot | 12 | |
| 98478 | OP30/SP/100MM/W | White | NPM | Narrow Spot | 10 | |
| 98475 | OP30/SP/75MM/B | Black | NPM | Narrow Spot | 12 | |
| 98476 | OP30/SP/100MM/B | Black | NPM | Narrow Spot | 10 | |

| | Order Code | Description | Body Color | Lead Insulation | Lead Length (mm) |
|---|------------|-----------------|------------|-----------------|------------------|
| Infusion™ Collar | | | | | |
|  | 61450 | MACC07HOLDERW | White | None | n/a |
| | 78835 | MACC07HOLDERB | Black | None | n/a |
| | 66233 | MHOLDERW/PVC600 | White | PVC | 600 |
| | 66232 | MHOLDERB/PVC600 | Black | PVC | 600 |

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

Stage and Studio Lamps

Bulb Identification 7-2

Lamp Locator 7-2

Filament Identification 7-4

Base Identification 7-4

Introduction 7-5

General Information..... 7-5

Product Information..... 7-5

Section Headings 7-6

Halogen Double-Ended..... 7-7

Halogen Single-Ended..... 7-7

Halogen Sealed Beam 7-8

CSR Metal Halide Lamps

Discharge-CSR/CSD (Daylight) Metal Halide,
Single-Ended Cold Start..... 7-9

Discharge-CSR (Daylight) Metal Halide,
Single-Ended Short Arc 7-9

Discharge-CSR (Daylight) Metal Halide,
Single-Ended Hot Restrike 7-9

Discharge-CSR (Daylight) Metal Halide,
Double-Ended Hot Restrike..... 7-9

Discharge-CSR (Daylight) Metal Halide,
Single-Ended Hot Restrike UV-Control..... 7-9

Fluorescent Cinema Lighting

Cinema Biax® 7-10

ANSI Codes 7-10

Footnotes and Safety Notices..... 7-11

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
Fluorescent

LED Lamps,
Tubes and Modules

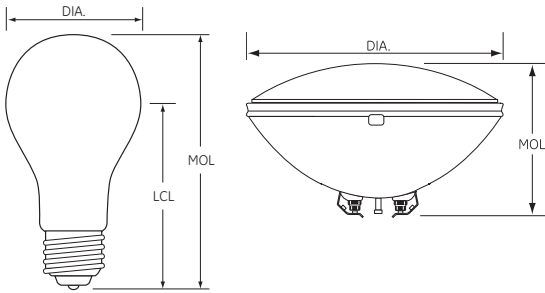
Stage and Studio

Miniature, Sealed
Beam and Automotive

Projection

Stage and Studio Lamps

Bulb Identification



DIA: Diameter of bulb at widest point.

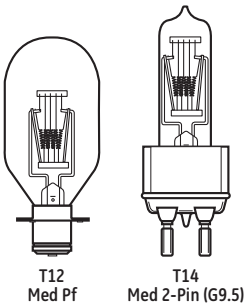
MOL: Maximum Overall Length including base or pins.

LCL: Distance between the center of the arc tube and the Light Center Length reference plane.

Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

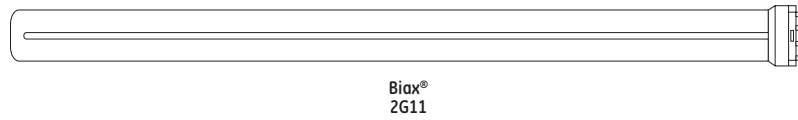
Lamp Locator



T12
Med Pf

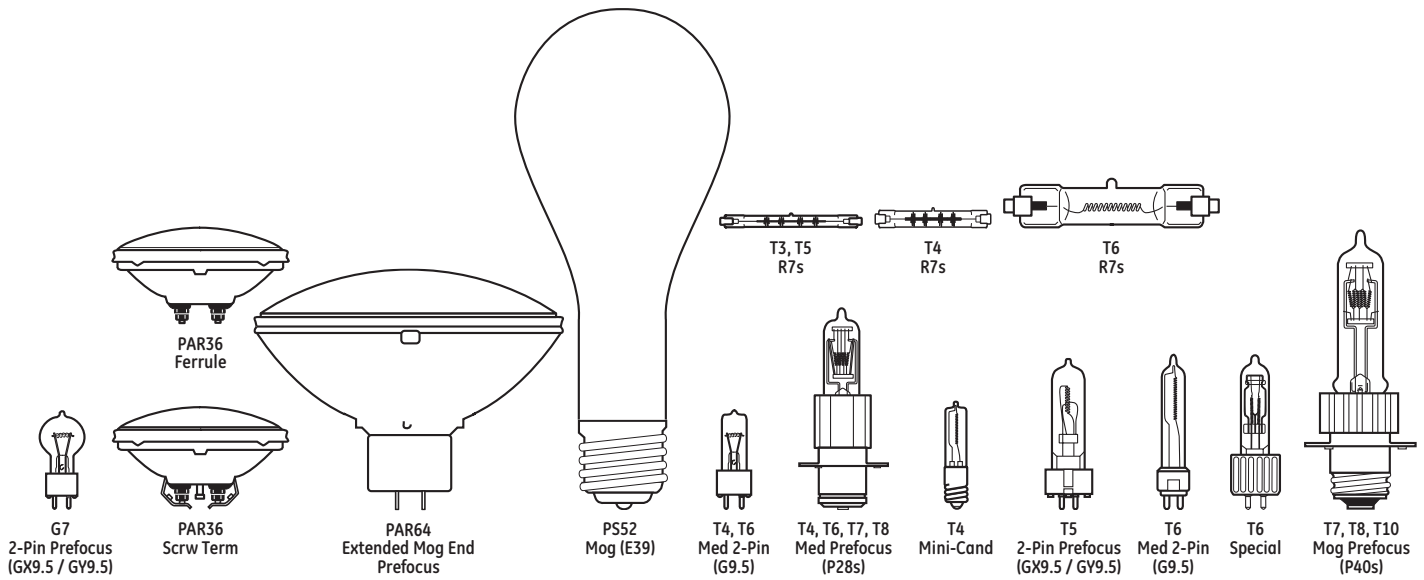
T14
Med 2-Pin (G9.5)

Incandescent Lamps



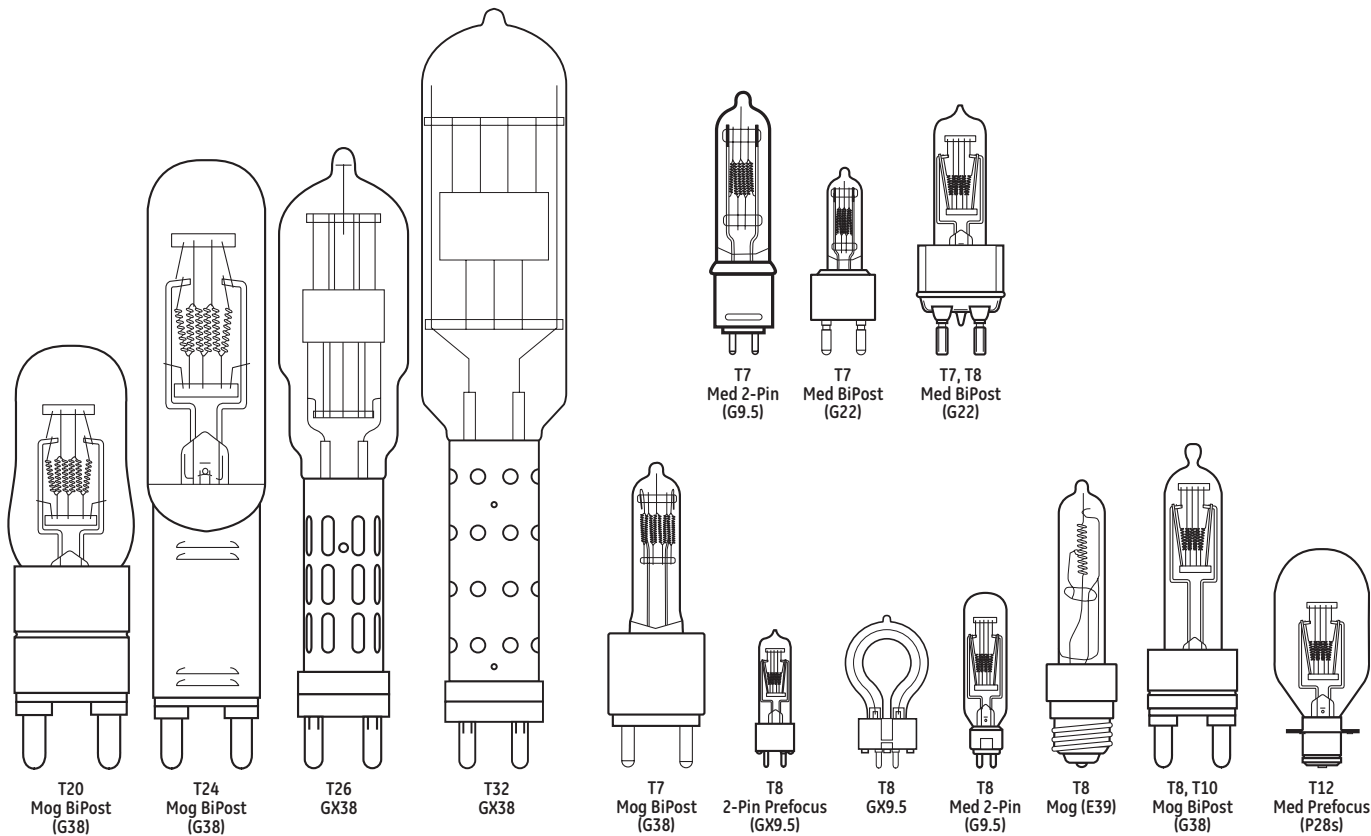
Biax®
2G11

Fluorescent Cinema Lamps

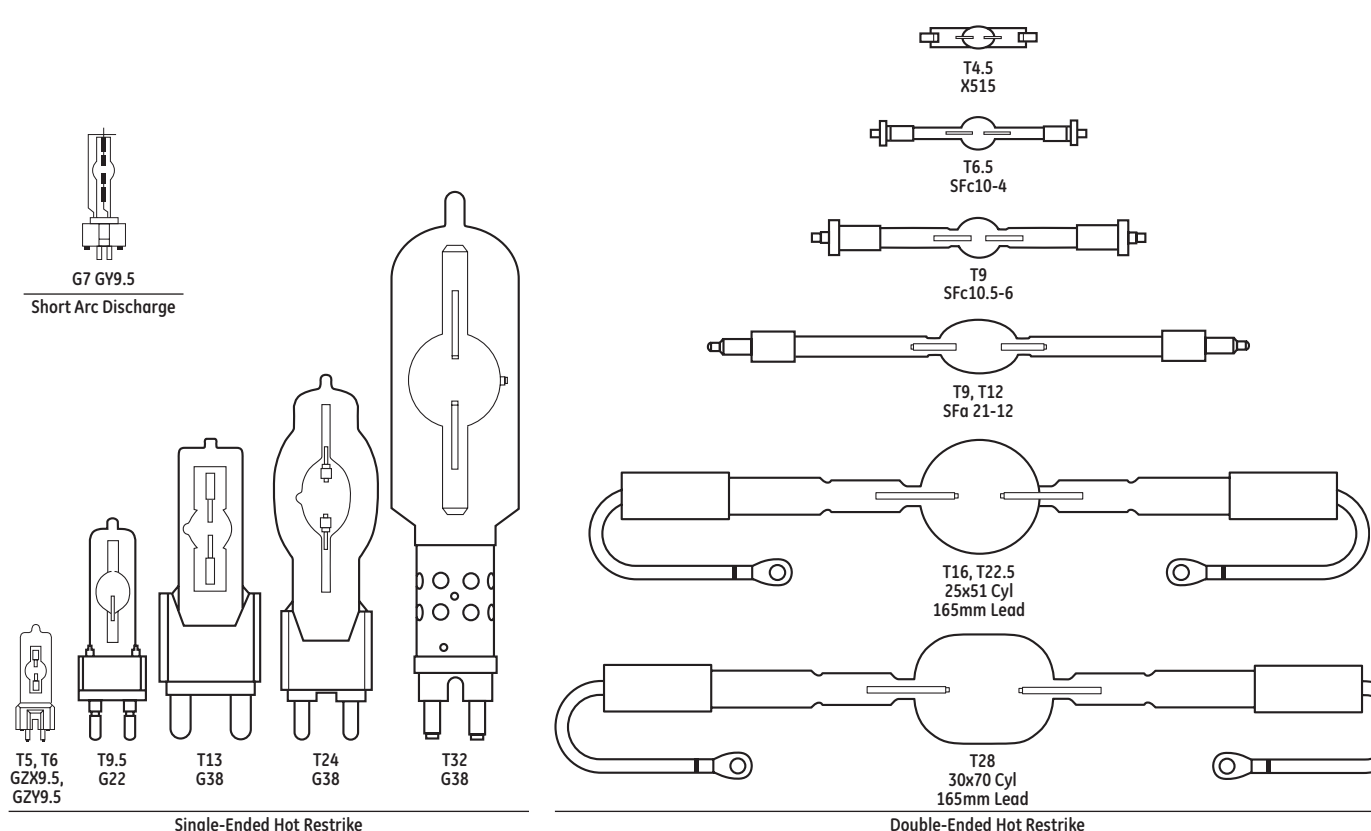


Quartzline® Tungsten Halogen

Lamp Locator (continued)



Quartzline® Tungsten Halogen (continued)



Single-Ended Hot Restrike

Double-Ended Hot Restrike

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

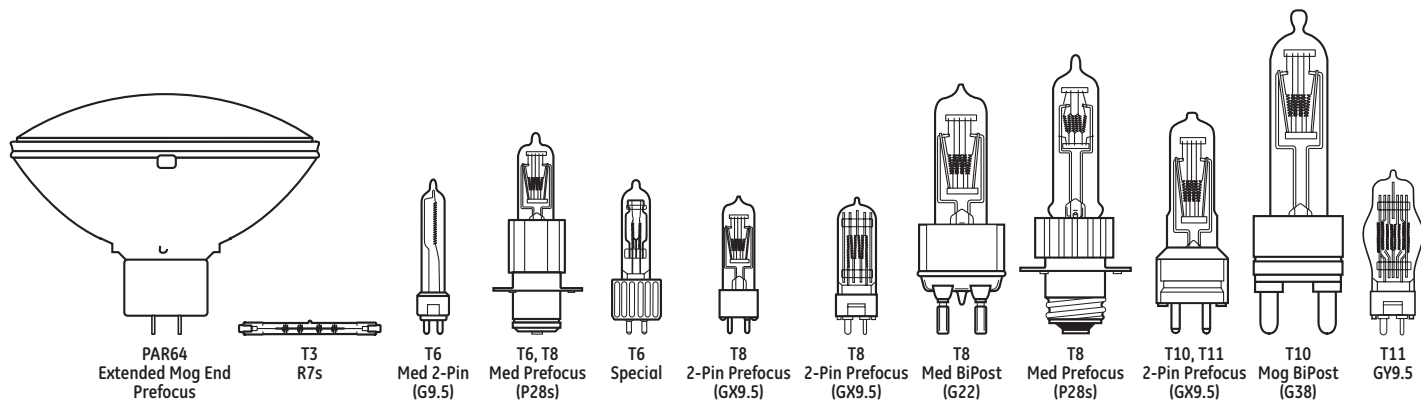
Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

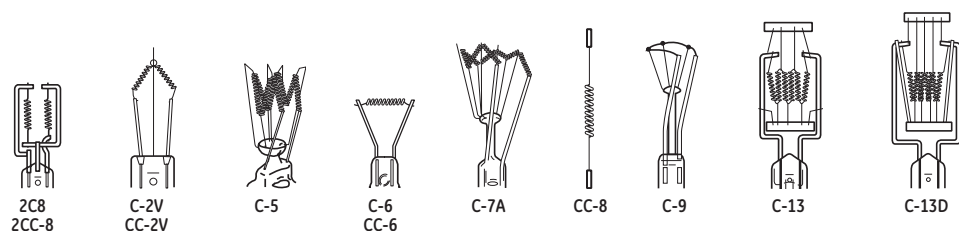
Stage and Studio Lamps

Lamp Locator (continued)

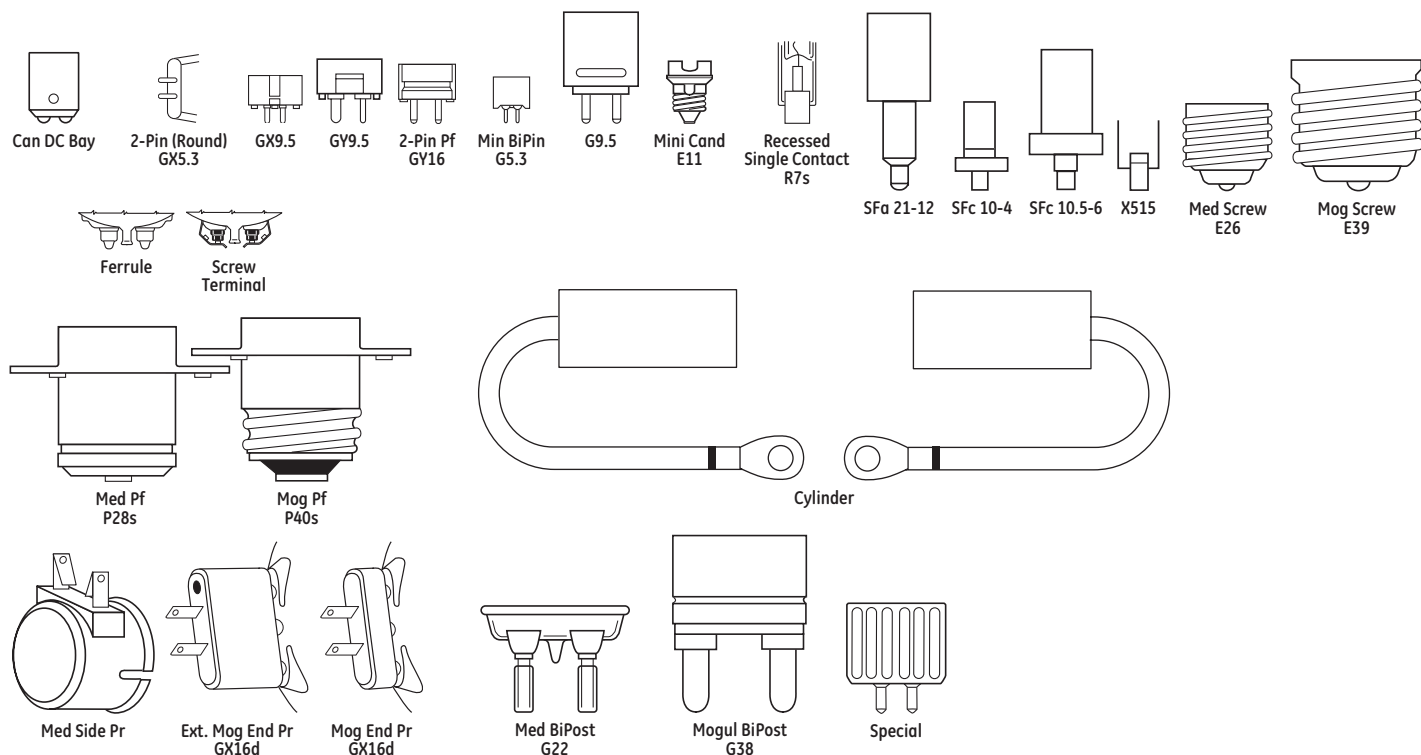


Quartzline® Tungsten Halogen High Voltage

Filament Identification



Base Identification



For the most up-to-date product information, see www.gelighting.com.

Introduction

GE has been a leading supplier to stage and studio users for many decades, and continues its pioneering work in the development of new and innovative light sources.

The primary change in recent years has been the migration from glass to quartz as the standard bulb material. The higher melting point of quartz enables bulb envelopes to be reduced in size and the halogen fillings to be run at higher pressures, leading to smaller, lighter, brighter, more energy-efficient and more reliable lamps.

GE's comprehensive range of single- and double-ended lamps is complemented by a group of PAR lamps, where the light source is enclosed in a sealed reflector unit.

The beam patterns of PAR lamps range from very narrow spot to wide-angle floods. This ensures consistency from lamp to lamp, interchangeability to suit the beam pattern needs of the moment and instant replaceability without the need to refocus and re-aim fixtures.

The sealed beam design prolongs the life of the inner lamp as well as protecting it from dust, vapor and other hazards, thereby ensuring high lumen maintenance over the life of the lamp.

PAR lamps may be used with very simple, lightweight, economical fixtures.

General Information

Operational Characteristics

Quartz halogen lamps are designed to be operated within close voltage tolerances, and excessive voltage can lead to drastically shortened life, albeit with significantly higher light output.

A second important variable is temperature. The tungsten halogen cycle does not operate properly below about 482°F (250°C) and quartz may begin to devitrify above about 1832°F (1000°C). Bulb envelopes should therefore be held in the range 482-1472°F (250-800°C).

The contact pins are plated to ensure good electrical connection with the lampholder. However, at temperatures above 350°C, the plating may lose adhesion, leading to deterioration in contact and possibly local hot spots, arcing and consequent irreparable damage to both lamp and holder. Note that if there is evidence that this has occurred, the lampholder should be replaced before the next lamp is fitted, otherwise it is likely to fail prematurely for the same reason.

Lamps normally fail by fusing of the filament. This is often followed by arcing, leading to very high currents which can cause the envelope and seals to fail and the lamp to shatter. A quick-acting, high-breaking capacity fuse should therefore be connected to the supply line in all applications. Suitable types are given in IEC 127, 241 and 269.

Chromised Seal Protection

Many Quartzline® Stage/Studio lamps have a special chromised seal protection, which allows lamp seal temperatures up to 500° C (vs traditional 350° C), which increases life and reliability.



If the package does not have this seal, lamp base temperatures for Quartzline® lamps should not exceed 350°C because, above that point, lead wires in the sealing area will deteriorate, and base cement can loosen, both causing premature lamp failure. Note overvoltageing a lamp will increase the seal heat.

Lamp Codes

GE Stage & Studio lamps are coded as such:

Lamp Description. This may be either an American National Standards Institute (ANSI) three-letter code such as EJJ, or a descriptive code in the general form Q750T3/4CL. ANSI codes are assigned to lamp specifications—mechanical, electrical and photometric characteristics—filed with the Institute.

They ensure interchangeability among similarly coded lamps from different manufacturers. Most of these lamps are rated for 120-volt operation. In a few cases a pair of ANSI codes are given (e.g. BFL/BFK), where the first is the official code for the lamp and the second code describes lamps the specifications of which are met or exceeded. In such cases, the lamps may be used to replace lamps with either code.

Base designations conform to IEC standards.

Product Information

GE CSR/CSD Metal Halide Lamps

New GE range of metal halide lamps for use in a variety of applications including TV and film, stage, concerts, photographic and large-screen presentation and color simulation.

- Excellent color rendering Ra >90
- Daylight color temperature, typically 6000K
- Universal burning position
- High efficiency up to 100 Lm/Watt
- Hot restrike and dimmable with stable color temperature
- Superior color stability
- Excellent lumen maintenance
- Use with electronic or AC magnetic ballast/ignitor control gear
- Applications include inside and outside TV and film production, stage, concerts, sporting events, photographic studios, overhead and large-screen projection and color simulation.

GE Cinema Fluorescent Lamps

- High CRI (Color Rendering Index)...traditional fluorescent lamps have not been widely used in photography and film making because of relatively low CRI and the prominent green spike found in typical fluorescent phosphors. GE Lighting Cinema 32 and Cinema 55 lamps have corrected these deficiencies with products that now have a CRI of 95 (out of 100 max.) and colors that respond to the spectral sensitivity curves of film and electronic imaging media.
- Optional Shatter Resistance...GE Cinema 32 and 55 offer the option of GE's exclusive *covRguard*® shatter resistance that helps contain glass fragments if the lamps are broken. Reduce the possibility of glass-related injuries to irreplaceable talent, damage to expensive sets, contamination of delicate equipment or missing critical deadlines because GE offers shatter resistance. GE's *covRguard*® process wraps the Cinema lamps in a full 15-ml-thick casing of GE's exclusive Lexan® polycarbonate that helps contain the glass, phosphor and chemicals if the lamp is broken. Unlike some other shatter-resistant lamps, GE's *covRguard*® lamps require no assembly.

Stage and Studio Lamps

Product Information (continued)

- Superior Light Output...the GE covRguard® process offers maximum protection with minimal light loss...the lowest loss of initial light of other shielded products.
- Dependable UV Blocking...the GE covRguard® process also offers excellent UV blocking. CovRguard® blocks 98% of the UV that is normally transmitted from an unprotected fluorescent lamp—all UVC, all UVB and most of UVA. This is critical for protecting expensive sets and wardrobe from the fading effects of UV exposure.

- Chromaticity...the Cinema 32 has a chromaticity of X=.415 and Y=.377 with a CRI of 95. The Cinema 32 mixes well with both incandescent and quartz halogen light sources without color corrections. The Cinema 55 is a broad band spectrum daylight lamp with a chromaticity of X=.325 and Y=.321 and a CRI of 96. The Cinema 55 mixes well with ambient daylight and short arc discharge HID light sources without color corrections.

For more detailed information on all GE Stage and Studio lighting order "Showbiz" 2008, PC 72475 from your GE sales representative.

Headings in this catalog section

The following terms and descriptions can help you when checking Stage/Studio lamp specifications and when ordering products. Within each product line, lamps are divided into families, within these families, lamps are then listed by wattage.

| | | | |
|---|--|---|--|
| Watts: Energy used. To find actual energy used (kWh) multiply power (watts shown) x time divided by 1000. | LIF Code: These are assigned by the Lighting Federation of London, U.K. They ensure electrical and mechanical interchangeability of similarly coded lamps. LIF codes are divided into groups according to the primary application of the lamps. | Approximate MBCP (Maximum Beam Candlepower): For reflector type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam. | Filament Type: Filaments are designated by a letter combination in which C is a coiled wire filament, CC is a coiled wire that is itself wound into a larger coil, and SR is a straight ribbon filament. Numbers represent the type of filament-support arrangement. |
| Bulb Shape: Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch). | Description: The lamp's identification code. | Design Color Temperature – Kelvins (K): A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value, the whiter or "cooler" the light appears. | MOL (in): Maximum Overall Length in inches. |
| Base: The type of base (ANSI). | ANSI Codes: These are 3-letter codes assigned by the American National Standards Institute. They provide a system of assuring mechanical and electrical interchangeability among similarly coded lamps from various manufacturers. General Electric uses the assigned ANSI Codes as Lamp Ordering Codes for most Projection Lamps. | Color Rendering Index (CRI): An indication of the ability of the lamp to render object colors in a normal, natural way. The higher the number (0-100), the better the color appearance. | Light Center Length (LCL): This dimension defines the location of the filament in relation to the base. It is measured from the geometric center of the filament to a specified point on, or plane through, the base. Light Center Length is subject to manufacturing tolerances. Reference points/planes from which LCL is measured are tabulated on page 7-4 for the various styles of lamp bases. |
| Volts: Lamp data is based on operation at rated voltage. | Pack/Case Quantity: Number of product units packed in a pack or case. | Initial Lumens: Initial light output. | Beam Spread: For reflector-type lamps. The total angle of the directed beam (in degrees) to where the intensity of the beam falls to 50% or 10% of the maximum value as indicated. |
| Order Code: It is important to use this five-digit code when ordering to ensure that you receive the exact product you require. | | | Rated Life – Hours: Lamp burning hours to rated life expectancy. |
| | | | Footnotes and Safety Notices: See pg 7-11 for information. |

| Watts | Bulb Shape | Base | Volts | Order Code | LIF Code | Description | ANSI Codes | Pack Qty | Initial Lumens | MBCP | Design Color Temp K | CRI | CIE x | Color y | Arc Length (mm) | Filament Type | MOL (in) | LCL (in) | Beam Spread 50% | | Rated Life (hrs) | Burning Position | Footnotes and Safety Notices |
|-------|------------|---------------|-------|------------|----------|------------------|------------|----------|----------------|------|---------------------|-----|-------|---------|-----------------|---------------|----------|----------|-----------------|--|------------------|------------------|------------------------------|
| 500 | T6 | Med PF (P28s) | 120 | 11966 | T17 | BTL-Q500 T6/CL/P | | 6 | 5500 | | 3200 | | | | | CC-2V | 2.43 | 1.37 | | | 50 | | 12 |

BTL- Q500 T6/CL/P

Identifies the lamp ANSI code.

Identifies the lamp's wattage. Q=Quartz Halogen

Identifies the lamp shape and the bulb diameter in eighths of inches.

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape by using tables on page 7-2.
2. Measure bulb diameter using ruler in Appendix section page D-1 to determine width in eighths of an inch.
3. Identify base type using table on page 7-4.
4. Find your lamp in the table containing the bulb shape, size and base.

| Watts | Bulb Shape | Base | Volts | Order Code | LIF Code | Description | ANSI Code | Pack Qty | Initial Lumens | Design Color Temp K | Rated Life (hrs) | Filament Type | MOL (in) | Burning Position | Footnotes and Safety Notices |
|-----------------------------|----------------|----------------|-------|--------------------|-------------------|---------------------|-----------|----------|----------------|---------------------|------------------|---------------|----------|------------------|------------------------------|
| Halogen Double-Ended | | | | | | | | | | | | | | | |
| 300 | T-3 | R7s | 120 | 43703 | | Q300T3/CL | EHM | 6 | 5950 | 2950 | 2000 | C-8 | 4.69 | H4 | 62 |
| 500 | T-3 | | | 23731 | | Q500T3/CL | FCL | 12 | 11100 | 3000 | 2000 | C-8 | 4.69 | H4 | 62 |
| | | | | 23744 | | Q500T3/CL/6 | | 12 | 10950 | 2950 | 1500 | C-8 | 4.69 | H4 | 62 |
| | | | | 23735 | P2/30 | FDN-Q500T3/4CL | FDN | 12 | 13250 | 3200 | 400 | C-8 | 4.69 | H4 | 62 |
| | | | | 23734 | P2/31 | FDN-Q500T3/4 | FDN | 12 | 12800 | 3200 | 400 | C-8 | 4.69 | H4 | 62,15 |
| | | | 130 | 23733 | | Q500T3/CL | DVS | 12 | 10550 | 3000 | 2000 | C-8 | 4.69 | H4 | 62 |
| 650 | T-4 | | 120 | 30325 | P2/6 | FAD-Q650T4/4CL | FAD | 24 | 16500 | 3200 | 100 | CC-8 | 3.13 | Any | 62 |
| 750 | T-3 | | | 23756 | - | EJG-Q750T3/4CL | EJG | 12 | 20600 | 3200 | 400 | C-8 | 4.69 | H4 | 62 |
| | | | | 23755 | - | EMD-Q750T3/4 | EMD | 12 | 19500 | 3200 | 400 | C-8 | 4.69 | H4 | 62,15 |
| 1000 | T-5 | | | 30157 | | DXW-Q1000T5/4CL | DXW | 24 | 28000 | 3200 | 150 | CC-8 | 3.75 | Any | 62,27 |
| | | 30374 | | | FBY-Q1000T5/4 | FBY | 24 | 26000 | 3200 | 150 | CC-8 | 3.75 | Any | 62,15 | |
| | | 33760 | | | FER-Q1000T6/4CL | FER | 6 | 27500 | 3200 | 500 | CC-8 | 5.63 | Any | 62 | |
| | T-6 | 23797 | | P2/28 | FCM-Q1000T3/4CL | FCM | 12 | 28000 | 3200 | 400 | C-8 | 4.69 | H4 | 62 | |
| | | T-3 | | 23792 | P2/29 | FHM-Q1000T3/4 | FHM | 12 | 27300 | 3200 | 400 | C-8 | 4.69 | H4 | 62,15,31 |
| 1500 | T-4 | | | 33280 | - | FFT-Q1000T3/1CL | FFT | 12 | 26400 | 3200 | 400 | C-8 | 6.56 | H4 | 62 |
| 2000 | T-10 | | | 23841 | - | FDB-Q1500T4/4CL | FDB | 12 | 41250 | 3200 | 400 | C-8 | 6.56 | H4 | 62 |
| | | | 88629 | P2/27 | FEY-Q2000T8/4CL | FEY | 12 | 57000 | 3200 | 400 | CC-8 | 5.63 | H4 | 62 | |
| Halogen Single-Ended | | | | | | | | | | | | | | | |
| 30 | T-3.5 | G5.3 | 10.8 | 37346 | | DZA | DZA | 24 | 530 | 3100 | 400 | C-6 | 2.00 | BDTHCH | 62 |
| 375 | T-6 | G9.5/Heat Sink | 115 | 88540 | | HPL375/C 115V | | 12 | 10540 | 3250 | 300 | 4-C8 | 4.17 | Any | 62 |
| | | | | 88539 | | HPL375/LL/C 115V | | 12 | 8000 | 3050 | 1000 | 4-C8 | 4.17 | Any | 62 |
| 500 | T-6 | G9.5 | 120 | 88624 | | EHD-Q500CL/TP | EHD | 24 | 10,000 | 2900 | 2000 | CC-8 | 4.13 | Any | 62 |
| | | | | 88628 | | EHC-Q500/5CL | EHC | 24 | 12,700 | 3150 | 500 | CC-8 | 4.13 | Any | 62 |
| | | | | 88467 | CP82 | FRG-Q500T8 | FRG | 24 | 13000 | 3200 | 150 | C-13 | 3.54 | BDTH | 62 |
| | T-8 | GY9.5 | | 88509 | | EGN-Q500T8 | EGN | 12 | 13000 | 3200 | 150 | C-13 | 5.51 | BDTH | 62 |
| | | | | 88547 | T17 | BTL-Q500T6/CL/P | BTL | 12 | 11000 | 3000 | 500 | C-13 | 5.25 | BDTH | 62 |
| | T-6 | P28s | | 88546 | - | BTM-Q500T6/4CL/2P | BTM | 12 | 13000 | 3200 | 150 | C-13 | 5.12 | BDTH | 62 |
| | | | | 88617 | - | EGE-Q500CL/P | EGE | 12 | 10450 | 2950 | 2000 | CC-8 | 6.00 | Any | 62 |
| 575 | T-6 | G9.5 | 115 | 88548 | | FLK-Q575T6 | FLK | 24 | 16500 | 3200 | 300 | CC-8 | 4.13 | Any | 62 |
| | | | | 88452 | | FLK/LL-Q575T6 | | 24 | 12800 | 3100 | 1500 | CC-8 | 4.13 | Any | 62 |
| | | | | 88424 | | GLA-Q575T6/4CL | GLA | 24 | 13000 | 3050 | 1500 | C-13D | 4.13 | Any | 62 |
| | | 88423 | | | GLC-Q575T6/5CL | GLC | 24 | 14500 | 3200 | 300 | C-13D | 4.13 | Any | 62 | |
| | | G9.5/Heat Sink | | 88438 | | HPL575/C 115V | | 12 | 16500 | 3200 | 300 | 4-C8 | 4.17 | Any | 62 |
| | | | | 88435 | | HPL575/LL/C 115V | | 12 | 12360 | 3050 | 2000 | 4-C8 | 4.17 | Any | 62 |
| | | 120 | 88436 | | HPL575/C 120V | | 12 | 16520 | 3200 | 300 | 4-C8 | 4.17 | Any | 62 | |
| | | | 88434 | | HPL575/LL/C 120V | | 12 | 12360 | 3050 | 2000 | 4-C8 | 4.17 | Any | 62 | |
| 600 | G-7 | G29.5 | 120 | 32955 | A1/264 | DYS/DVW/BHC | DYS | 24 | 17000 | 3200 | 75 | CC-6 | 2.50 | BDTHCH | 62 |
| 650 | T-8 | GY9.5 | | 88462 | CP89 | FRK-Q650T8 | FRK | 24 | 16900 | 3200 | 200 | C-13 | 3.54 | BDTH | 62 |
| 750 | T-6 | G9.5 | 115 | 88427 | | GLD-Q750T6/4CL | GLD | 24 | 19000 | 3200 | 300 | C-13D | 4.13 | Any | 62 |
| | | | | 88426 | | GLE-Q750T6/4CL | GLE | 24 | 17400 | 3050 | 1500 | C-13D | 4.13 | Any | 62 |
| | | | | 88437 | | HPL750/C 115V | | 12 | 22000 | 3200 | 300 | 4-C8 | 4.17 | Any | 62,7 |
| | | | | 88428 | | HPL750/LL/C | | 12 | 16400 | 3050 | 2000 | 4-C8 | 4.17 | Any | 62,7 |
| | G9.5/Heat Sink | 120 | 88626 | | EHG-Q750CL/TP | EHG | 24 | 15000 | 3000 | 2000 | CC-8 | 4.13 | Any | 62 | |
| | | | 88627 | | EHF-Q750/4CL | EHF | 24 | 20000 | 3200 | 300 | CC-8 | 4.13 | Any | 62 | |
| | | | 88621 | | EGR-Q750T7/4CL | EGR | 12 | 21000 | 3200 | 200 | C-13D | 5.00 | BDTH | 62,1 | |
| | T-7 | G22 | 88605 | - | BTN-Q750T7/CL/2P | BTN | 12 | 17600 | 3050 | 500 | C-13D | 4.75 | BD30 | 62,1 | |
| | | | 88606 | - | BTP-Q750T7/4CL/2P | BTP | 12 | 21000 | 3200 | 200 | C-13D | 4.75 | BD30 | 62,1 | |
| | T-6 | P28s | 88619 | - | EGG-Q750CL/P | EGG | 12 | 15750 | 3000 | 2000 | CC-8 | 6.00 | Any | 62 | |
| G9.5/Heat Sink | | | 230 | 88474 | | HPL750 | | 12 | 19750 | 3200 | 300 | 6-C8 | 4.17 | Any | 62,7 |
| 1000 | T-6 | G9.5 | 120 | 88625 | CP77 | FEL-Q1000/4CL | FEL | 24 | 27500 | 3200 | 300 | CC-8 | 4.13 | Any | 62 |
| | | | | 88622 | | EGT-Q1000T7/4CL | EGT | 12 | 28500 | 3200 | 250 | C-13D | 5.00 | BDTH | 62,1 |
| | T-7 | G22 | | 88630 | | CVV-Q1000T7/4CL/BP | CVV | 6 | 28500 | 3200 | 200 | C-13D | 8.00 | BDTH | 62,1 |
| | | | | G38 | | | | | | | | | | | |
| | PS-52 | E39 | | 39582 | - | DK2/DSE-Q1000PS52/4 | DKZ | 12 | 28000 | 3200 | 750 | CC-8 | 13.00 | Any | 1,62,51 |
| | ED-37 | E39 | | 19926 | | DSE/Q1000 | DSE | 10 | 28000 | 3200 | 750 | CC-8 | 13.00 | Any | 1,62 |
| | T-7 | P28s | | 88607 | - | BTR-Q1000T7/4CL/2P | BTR | 12 | 28500 | 3200 | 250 | C-13D | 4.75 | BD30 | 62,1 |
| | | | | 88615 | - | EGJ-Q1000/4CL/P | EGJ | 12 | 27500 | 3200 | 300 | CC-8 | 6.00 | Any | 62 |
| | T-6 | P28s | | 88614 | - | EKG-Q1000/4P | EKG | 12 | 26500 | 3200 | 300 | CC-8 | 6.00 | Any | 62 |
| | | | | 88608 | - | BVT-Q1000T7/CL/MP | BVT | 6 | 24500 | 3050 | 500 | C-13D | 7.25 | BDTH | 62,1 |
| T-7 | P40s | 88631 | - | BVV-Q1000T7/4CL/MP | BVV | 6 | 28500 | 3200 | 200 | C-13D | 7.25 | BDTH | 62,1 | | |

Stage and Studio Lamps

| Watts | Bulb Shape | Base | Volts | Order Code | LIF Code | Description | ANSI Code | Pack Qty | Initial Lumens | Design Color Temp K | Rated Life (hrs) | Filament Type | MOL (in) | Burning Position | Footnotes and Safety Notices | |
|---|------------|------|-------|------------|----------|---------------------|-------------|----------|----------------|---------------------|------------------|---------------|----------|------------------|------------------------------|----|
| Halogen Single-Ended (continued) | | | | | | | | | | | | | | | | |
| 1500 | T-10 | G38 | 120 | 88612 | | CXZ-Q1500T10/4CL | CXZ | 6 | 44500 | 3200 | 400 | C-13 | 8.50 | BDTH | 62,1 | |
| | PS-52 | E39 | | 40357 | - | DKX/DSF-Q1500PS52/4 | DKX | 12 | 41000 | 3200 | 1000 | C-8 | 13.00 | Any | 1,62,51 | |
| 2000 | T-10 | G38 | 120 | 88610 | | CYX-Q2000T10/4CL | CYX | 6 | 59000 | 3200 | 350 | C-13 | 8.50 | BDTH | 62,1 | |
| | T-8 | E39 | | 88611 | - | BWF-Q2000/4CL | BWF | 6 | 54000 | 3200 | 500 | CC-8 | 7.50 | Any | 62 | |
| | T-10 | P40s | | 88609 | CP53 | BVW-Q2000T10/4CL/MP | BVW | 6 | 59000 | 3200 | 350 | C-13 | 8.46 | BDTH | 62 | |
| 5000 | T-20 | G38 | 120 | 41736 | CP29 | DPY-Q5000T20/4CL | DPY | 6 | 143000 | 3200 | 500 | C-13 | 11.00 | BD45 | 62,1 | |
| | | | | 22959 | | HX5000 | | 6 | 147000 | 3200 | 250 | C-8 | 11.02 | Any | 62 | |
| 10000 | T-24 | G38 | 120 | 24886 | - | DTY-Q10M/T24/4CL | DTY | 4 | 290000 | 3200 | 300 | C-13 | 15.75 | BD45 | 62,1 | |
| 12000 | T-26 | GX38 | 120 | 48770 | | Q12MT26/4CL | | 1 | 420000 | 3400 | 150 | C-13 | 16.13 | BD45 | 62 | |
| | | | | 230 | 48771 | | Q12MT26/4CL | | 1 | 420000 | 3400 | 130 | C-13 | 16.13 | BD45 | 62 |
| | | | | 240 | 48779 | | Q12MT26/4CL | | 1 | 420000 | 3400 | 130 | C-13 | 16.13 | BD45 | 62 |
| 20000 | T-32 | GX38 | 208 | 48772 | | BCM-Q20MT32/4CL | BCM | 1 | 580000 | 3200 | 400 | C-13 | 22.05 | BD45 | 62 | |
| 24000 | T-32 | GX38 | 230 | 48776 | | Q24MT32/4CL | | 1 | 800000 | 3400 | 150 | C-13 | 22.05 | BD45 | 62 | |
| | | | | 240 | 48777 | | Q24MT32/4CL | | 1 | 800000 | 3400 | 150 | C-13 | 22.05 | BD45 | 62 |

| Watts | Bulb Shape | Base | Volts | Description | ANSI Code | LIF Code | Order Code | Pack Qty | MBCP | Design Color Temp K | Beam Spread 50% | | MOL (in) | Rated Life (hrs) | Footnotes and Safety Notices |
|----------------------------|-----------------|------------|------------------|------------------|-----------|----------|------------|----------|--------|---------------------|-----------------|------|----------|------------------|------------------------------|
| | | | | | | | | | | | H | V | | | |
| Halogen Sealed Beam | | | | | | | | | | | | | | | |
| 500 | PAR56 | Mog End Pr | 120 | Q500PAR56NSP | | | 43494 | 6 | 96000 | 2950 | 13 | 8 | 5 | 4000 | 63 |
| | | | 120 | Q500PAR56MFL | | | 43495 | 6 | 43000 | 2950 | 26 | 10 | 5 | 4000 | 63 |
| | | | 120 | Q500PAR56WFL | | | 43496 | 6 | 19000 | 2950 | 44 | 20 | 5 | 4000 | 63 |
| | PAR64 | ExMogEndPr | 120 | 500PAR64/NSP | | | 39406 | 12 | 110000 | 2800 | 12 | 7 | 6 | 2000 | 64 |
| | | | 120 | 500PAR64/MFL | | | 39409 | 12 | 37000 | 2800 | 23 | 11 | 6 | 2000 | 64 |
| | | | 120 | 500PAR64/WFL | | | 39412 | 12 | 13000 | 2800 | 42 | 20 | 6 | 2000 | 64 |
| | | MogEndPr | 230 | 500PAR64/MFL | | | 39411 | 12 | | 2700 | 21 | 10 | 6 | 2000 | 64 |
| | | | 230 | 500PAR64/WFL | | | 39414 | 12 | | 2700 | 42 | 20 | 6 | 2000 | 64 |
| 650 | PAR36 | Ferrule | 120 | FAY-Q650PAR36/3D | FAY | | 41668 | 12 | 36000 | 5000 | 25 | 15 | 2.75 | 30 | 63 |
| | | | 120 | FCW-Q650PAR36/6 | FCW | | 41672 | 12 | 9000 | 3200 | 60 | 55 | 2.75 | 100 | 63 |
| | | | 120 | FCX-Q650PAR36/7 | FCX | | 41673 | 12 | 24000 | 3200 | 40 | 30 | 2.75 | 100 | 63 |
| | Screw Terminals | 120 | DWE-Q650PAR36/1 | DWE | | 41667 | 12 | 24000 | 3200 | 40 | 30 | 2.75 | 100 | 63 | |
| | | 120 | FBE-Q650PAR36/5D | FBE | | 41669 | 12 | 36000 | 5000 | 25 | 15 | 2.75 | 30 | 63 | |
| | | 120 | FBO-Q650PAR36/5 | FBO | | 41671 | 12 | 67000 | 3400 | 25 | 15 | 2.75 | 30 | 63 | |
| 1000 | PAR64 | ExMogEndPr | 120 | FFN-Q1000PAR64/1 | FFN | | 13233 | 6 | 400000 | 3200 | 12 | 6 | 6 | 800 | 63 |
| | | | 120 | FFP-Q1000PAR64/2 | FFP | | 13229 | 6 | 330000 | 3200 | 14 | 7 | 6 | 800 | 63 |
| | | | 120 | FFR-Q1000PAR64/5 | FFR | | 13228 | 6 | 125000 | 3200 | 28 | 12 | 6 | 800 | 63 |
| | | | 120 | FFS-Q1000PAR64/6 | FFS | | 13227 | 6 | 40000 | 3200 | 48 | 24 | 6 | 800 | 63 |
| | | | 120 | Q1000PAR64NSP | | | 43497 | 6 | 200000 | 3000 | 15 | 8 | 6 | 4000 | 63 |
| | | | 120 | Q1000PAR64MFL | | | 43498 | 6 | 80000 | 3000 | 28 | 12 | 6 | 4000 | 63 |
| | | | 120 | Q1000PAR64/WFL | | | 43499 | 6 | 33000 | 3000 | 48 | 24 | 6 | 4000 | 63 |
| 1200 | PAR64 | ExMogEndPr | 120 | GFC-Q1200PAR64/1 | GFC | | 88487 | 6 | 540000 | 3200 | 8 | 10 | 6 | 400 | 63 |

| Watts | Bulb Shape | Base | Volts | Description | Order Code | Pack Qty | Initial Lumens | Design Color Temp K | CRI | CIE x | Color y | Arc Length (mm) | Rated Life (hrs) | LCL (in) | MOL (in) | Burning Position | Footnotes and Safety Notices |
|--|------------|-----------------|-------|--------------------|------------|----------|----------------|---------------------|-----|-------|---------|-----------------|------------------|----------|----------|------------------|------------------------------|
| CSR Metal Halide Lamps | | | | | | | | | | | | | | | | | |
| Discharge-CSR/CSD (Daylight) Metal Halide Single-Ended Cold Start | | | | | | | | | | | | | | | | | |
| 300 | | PGJX28 | 95 | CSR300/2/TAL | 76160 | 4 | 23000 | 7800 | 75+ | | | 5 | 750 | 2.64 | 4.96 | Any | 14.63 |
| 575 | T9 | GX9.5 | 97 | CSR575/2/SE | 15378 | 10 | 46000 | 7200 | 65+ | 0.302 | 0.320 | 7 | 1000 | 2.56 | 4.92 | Any | 14.63 |
| 700 | T9 | G22 | 70 | CSR700/2/SE | 49491 | 10 | 55000 | 7200 | 70+ | 0.312 | 0.325 | 7.5 | 1000 | 2.95 | 6.10 | Any | 14.63 |
| 1200 | T12 | G22 | 100 | CSR1200/2/SE | 49490 | 6 | 110000 | 7200 | 75+ | 0.305 | 0.315 | 10 | 800 | 3.35 | 6.90 | Any | 14.63 |
| 1500 | | PGJX50 | 100 | CSR1500/TAL/60/S | 74873 | 4 | 135000 | 6000 | 85+ | | | 5 | 750 | 2.56 | 5.12 | Any | 14.63 |
| Discharge-CSR (Daylight) Metal Halide, Single-Ended Short Arc | | | | | | | | | | | | | | | | | |
| 700 | G7 | GY9.5 | 70 | CSR700/SA | 15380 | 10 | 58000 | 5600 | 70+ | 0.330 | 0.342 | 4.3 | 500 | 1.53 | 3.35 | Any | 14.63 |
| 1200 | G8 | GY22 | 100 | CSR1200/SA | 21849 | 6 | 96000 | 5600 | 75+ | 0.326 | 0.330 | 7.5 | 750 | 2.32 | 5.31 | Any | 14.63 |
| Discharge-CSR (Daylight) Metal Halide, Single-Ended Hot Restrike | | | | | | | | | | | | | | | | | |
| 125 | T5 | GZX9.5 | 80 | CSR125/SE/HR | 48461 | 10 | 9400 | 5600 | 90+ | 0.323 | 0.328 | 4 | 200 | 1.53 | 2.95 | Any | 14.63 |
| 12000 | T32 | G38 | 160 | CSR12000/SE/HR | 48468 | 4 | 1100000 | 6000 | 90+ | 0.323 | 0.328 | 28 | 250 | 10.04 | 17.72 | Any | 14.63 |
| 18000 | T32 | G51 | 225 | CSR18000/SE/HR | 22496 | 1 | 1650000 | 6000 | 90+ | 0.323 | 0.328 | 35 | 250 | 10.04 | 18.00 | Any | 14.63 |
| Discharge-CSR (Daylight) Metal Halide, Double-Ended Hot Restrike | | | | | | | | | | | | | | | | | |
| 200 | T4.5 | X515 | 80 | CSR200/DE | 48450 | 10 | 16000 | 6000 | 90+ | 0.323 | 0.325 | 8 | 300 | | 2.95 | H15 | 14.63 |
| 575 | T6.5 | SfC 10-4 SI/M4 | 95 | CSR575/S/DE/70 | 70979 | 10 | 40000 | 7000 | 75+ | 0.307 | 0.309 | 7 | 750 | | 5.43 | Any | 14.63 |
| | | | 100 | CSR575/SS/DE/75 | 45231 | 10 | 44000 | 7500 | 70+ | 0.297 | 0.312 | 5 | 500 | | 3.62 | Any | 14.63 |
| 700 | T6.5 | | 70 | CSR700/S/DE/72 | 41357 | 10 | 59000 | 7200 | 75+ | 0.322 | 0.332 | 4 | 750 | | 5.43 | Any | 14.63 |
| 1200 | T6.5 | | 100 | CSR1200/S/DE/60 | 22494 | 10 | 110000 | 6000 | 90+ | 0.323 | 0.325 | 7 | 500 | | 5.43 | Any | 14.63 |
| 1500 | T6.5 | | 115 | CSR1500/S/DE/60 | 96800 | 10 | 135000 | 6000 | 85+ | 0.326 | 0.334 | 7 | 750 | | 5.43 | Any | 14.63 |
| 4000 | T12 | Sfa21-12 | 200 | CSR4000/DE | 48455 | 6 | 410000 | 6000 | 90+ | 0.323 | 0.325 | 34 | 500 | | 15.94 | H15 | 14.63 |
| 18000 | T28 | 30x70 Cyl 165mm | 225 | CSR18000/DE | 48459 | 4 | 1650000 | 6000 | 90+ | 0.323 | 0.325 | 45 | 300 | | 19.68 | H15 | 14.63 |
| Discharge-CSR (Daylight) Metal Halide, Single-Ended Hot Restrike UV Control | | | | | | | | | | | | | | | | | |
| 200 | T6 | GZY9.5 | 70 | CSR200/SE/HR/UVC | 48462 | 10 | 15000 | 5600 | 90+ | 0.323 | 0.328 | 5 | 200 | 1.53 | 3.15 | Any | 14.63 |
| 400 | T7 | GZZ9.5 | 70 | CSR400/SE/HR/UVC | 21853 | 10 | 32000 | 6000 | 85+ | 0.323 | 0.320 | 6.5 | 750 | 2.38 | 4.32 | Any | 14.63 |
| 575 | T9.5 | G22 | 95 | CSR575/SE/HR/UVC | 40460 | 10 | 49000 | 5600 | 80+ | 0.330 | 0.325 | 7 | 750 | | 5.71 | Any | 14.63 |
| 800 | T9.5 | G22 | 95 | CSR800/SE/HR/UVC | 22495 | 10 | 64000 | 5600 | 90+ | 0.325 | 0.327 | 7 | 1000 | | 5.71 | Any | 14.63 |
| 1200 | T13 | G38 | 100 | CSR1200/SE/HR/UVC | 27764 | 6 | 110000 | 5600 | 90+ | 0.333 | 0.333 | 10 | 750 | | 7.87 | Any | 14.63 |
| 1800 | | G38 | 140 | CSR1800/SE/HR/UVC | 77390 | 4 | 165000 | 6000 | 90+ | 0.333 | 0.333 | 12 | 750 | | 7.87 | Any | 14.63 |
| 2500 | T19.5 | G38 | 115 | CSR2500/SE/HR/UVC | 40482 | 6 | 220000 | 5600 | 90+ | 0.330 | 0.325 | 14 | 500 | | 9.45 | Any | 14.63 |
| 4000 | T24 | G38 | 200 | CSR4000/SE/HR/UVC | 27765 | 6 | 380000 | 5600 | 90+ | 0.330 | 0.325 | 24 | 500 | | 10.24 | Any | 14.63 |
| 6000 | T26.5 | G38 | 130 | CSR6000/SE/HR/UVC | 40492 | 6 | 540000 | 5600 | 90+ | 0.333 | 0.333 | 26 | 300 | | 14.17 | Any | 14.63 |
| 9000 | T26.5 | G38 | 160 | CSR9000/SE/HR | 65852 | 6 | 875000 | 5800 | 90+ | 0.333 | 0.333 | 26 | 250 | | 14.17 | Any | 14.63 |
| 12000 | T32 | G38 | 160 | CSR12000/SE/HR/UVC | 97272 | 4 | 1100000 | 6000 | 90+ | 0.323 | 0.328 | 28 | 250 | 18.04 | 17.72 | Any | 14.63 |

Stage and Studio Lamps

| Watts | Bulb Shape | Base | Footnotes and Safety Notices | Order Code | Description | Case Qty | Lumens Initial | Design Color Temp K | MOL (in) | Rated Life (hrs) | CRI | Burning Position |
|------------------------------------|------------|------------|------------------------------|------------|--------------------|----------|----------------|---------------------|----------|------------------|-----|------------------|
| Fluorescent Cinema Lighting | | | | | | | | | | | | |
| Cinema Biax® | | | | | | | | | | | | |
| 55 | T5 | 2G11-4 PIN | 171 | 41869 | F55BX/STUDIOBIAX32 | 10 | 4100 | 3200 | 21.10 | 8000 | 86 | Any |
| | | | 171 | 41873 | F55BX/STUDIOBIAX56 | 10 | 4100 | 5600 | 21.10 | 8000 | 86 | Any |
| | | | 171 | 41903 | F55BX/CINPLUS/32 | 10 | 2400 | 3200 | 21.10 | 2000 | 86 | Any |
| | | | 171 | 41911 | F55BX/CINPLUS/56 | 10 | 2400 | 5600 | 21.10 | 2000 | 86 | Any |

ANSI Codes

| ANSI Code | Order Code | Volts | Lamp Description |
|-----------|------------|-------|---------------------|
| BCM | 48772 | 208 | BCM-Q20MT32/4CL |
| BCM | 48773 | 230 | BCM-Q20MT32/4CL |
| BCM | 48774 | 240 | BCM-Q20MT32/4CL |
| BTL | 11966 | 120 | BTL-Q500T6/CL/P |
| BTM | 16465 | 120 | BTM-Q500T6/4CL/2P |
| BTN | 11953 | 120 | BTN-Q750T7/CL/2P |
| BTP | 11954 | 120 | BTP-Q750T7/4CL/2P |
| BTR | 11955 | 120 | BTR-Q1000T7/4CL/2P |
| BVT | 12554 | 120 | BVT-Q1000T7/CL/MP |
| BVV | 12553 | 120 | BVV-Q1000T7/4CL/MP |
| BVW | 12555 | 120 | BVW-Q2000T10/4CL/MP |
| BWA | 39587 | 120 | BWA-Q2000/4CL/BP |
| BWF | 37086 | 120 | BWF-Q2000/4CL |
| CXZ | 37564 | 120 | CXZ-Q1500T10/4CL |
| CYV | 42697 | 120 | CYV-Q1000T7/4CL/BP |
| CYX | 36636 | 120 | CYX-Q2000T10/4CL |
| DKX | 40357 | 120 | DKX/DSF-Q1500P552/4 |
| DKZ | 39582 | 120 | DKZ/DSE-Q1000P552/4 |
| DPY | 41736 | 120 | DPY-Q5000T20/4CL |
| DSE | 19926 | 120 | DSE/Q1000 |
| DSF | 19927 | 120 | DSF/Q1500 |
| DTY | 24886 | 120 | DTY-Q10M/T24/4CL |
| DVS | 23733 | 130 | Q500T3/CL |
| DWE | 41667 | 120 | DWE-Q650PAR36/1 |

| ANSI Code | Order Code | Volts | Lamp Description |
|-----------|------------|-------|------------------|
| DXW | 30157 | 120 | DXW-Q1000T5/4CL |
| DYS | 32955 | 120 | DYS/DYV/BHC |
| DZA | 37346 | 10.8 | DZA |
| EGE | 39135 | 120 | EGE-Q500CL/P |
| EGG | 39137 | 120 | EGG-Q750CL/P |
| EGJ | 38853 | 120 | EGJ-Q1000/4/CL/P |
| EGK | 38852 | 120 | EGK-Q1000/4/P |
| EGN | 30373 | 120 | EGN-Q500T8 |
| EGR | 39190 | 120 | EGR-Q750T7/4CL |
| EGT | 39191 | 120 | EGT-Q1000T7/4CL |
| EHC | 39789 | 120 | EHC-Q500/5CL |
| EHD | 39768 | 120 | EHD-Q500CL/TP |
| EHF | 39771 | 120 | EHF-Q750/4CL |
| EHG | 39770 | 120 | EHG-Q750CL/TP |
| EHM | 43703 | 120 | Q300T3/CL |
| EJG | 23756 | 120 | EJG-Q750T3/4CL |
| EKB | 33934 | 120 | EKB-Q420/4CL/2PP |
| EMD | 23755 | 120 | EMD-Q750T3/4 |
| FAD | 30325 | 120 | FAD-Q650T4/4CL |
| FAY | 41668 | 120 | FAY-Q650PAR36/3D |
| FBE | 41669 | 120 | FBE-Q650PAR36/5D |
| FBO | 41671 | 120 | FBO-Q650PAR36/5 |
| FBY | 30374 | 120 | FBY-Q1000T5/4 |
| FCL | 23731 | 120 | Q500T3/CL |

| ANSI Code | Order Code | Volts | Lamp Description |
|-----------|------------|-------|------------------|
| FCM | 23797 | 120 | FCM-Q1000T3/4CL |
| FCW | 41672 | 120 | FCW-Q650PAR36/6 |
| FCX | 41673 | 120 | FCX-Q650PAR36/7 |
| FDB | 23841 | 120 | FDB-Q1500T4/4CL |
| FDL | 23735 | 120 | FDL-Q500T3/4CL |
| FDN | 23734 | 120 | FDN-Q500T3/4 |
| FEL | 39769 | 120 | FEL-Q1000/4CL |
| FER | 33760 | 120 | FER-Q1000T6/4CL |
| FEY | 39790 | 120 | FEY-Q2000T8/4CL |
| FFN | 13233 | 120 | FFN-Q1000PAR64/1 |
| FFP | 13229 | 120 | FFP-Q1000PAR64/2 |
| FFR | 13228 | 120 | FFR-Q1000PAR64/5 |
| FFS | 13227 | 120 | FFS-Q1000PAR64/6 |
| FFT | 33280 | 120 | FFT-Q1000T3/1CL |
| FHM | 23792 | 120 | FHM-Q1000/T3/4 |
| FLK | 11450 | 115 | FLK-Q575T6 |
| FRG | 39623 | 120 | FRG-Q500T8 |
| FRK | 39637 | 120 | FRK-Q650T8 |
| GFC | 34808 | 120 | GFC-Q1200PAR64/1 |
| GLA | 93428 | 115 | GLA-Q575T6/4CL |
| GLC | 93429 | 115 | GLC-Q575T6/5CL |
| GLD | 92771 | 115 | GLD-Q750T6/4CL |
| GLE | 92773 | 115 | GLE-Q750T6/4CL |

Footnotes and Safety Notices

- 1 Filament with low noise construction.
- 2 New Product Code. See cross reference for previous code.
- 7 Pinned base to secure correct application.
- 14 Enclosed fixture only, per UL Standard 1572. In accordance to Federal Regulations (21CFR1040.30) the following notice applies:
- WARNING:** This lamp can cause serious skin burn and eye inflammation if the outer envelope is broken or punctured, and the arc tube continues to operate. Do not use where people will remain more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available.
- 15 Apparent lighted length slightly longer than similar clear lamp.
- 27 Has blackening collector grid on only one side of filament. Unless burned base down, install lamp so grid is above filament.
- 31 GE lamp is 240 volt; 250 volt lamp specified for Colortran.
- 51 Silica coated.
- 52 Rough service. 6 filament supports.
- 55 Burn BDTH, but avoid horizontal burning with support spine beneath filament to prevent premature arcing.
- 62 **Safety Notice for exposed unshielded lamps (if shielded fixture use footnote 63)**

⚠ Warning

Risk of electrical shock

- Turn power off before inspection, installation or removal

Risk of fire

- Keep combustible materials away from lamp
- Use in enclosed fixture rated for this product

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not touch glass with bare hands
- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken
- Operate lamp only in specified position
- Do not exceed 110% of rated voltage

⚠ Caution

Risk of burn

- Allow lamp/fixture to cool before handling
- Turn power off before installing lamp

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Wear safety glasses and gloves when handling lamp

Lamp emits UV radiation which may cause eye/skin irritation. RG-2.

- Limit unshielded exposure to less than 15 minutes per day

63 Safety Notice for PAR lamps and enclosed, shielded lamps

⚠ Warning

Risk of electrical shock

- Turn power off before inspection, installation or removal

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass is broken. Remove and dispose of lamp

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken
- Do not exceed 110% of rated voltage
- Avoid direct water/liquid contact

⚠ Caution

Risk of burn

- Allow lamp/fixture to cool before handling
- Turn power off before installing lamp

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

64 High Wattage Incandescent Par Lamps

⚠ Warning

Risk of electrical shock

- Turn power off before inspection, installation, or removal

Risk of fire

- Keep combustible materials away from lamp

Unexpected lamp rupture may cause injury, fire, or property damage

- Avoid direct water/liquid contact
- Use in enclosed fixtures rated for this product

Burning Position Key

| | |
|---------------|--|
| H4 | operate horizontally +-4 degrees |
| H15 | operate horizontally +-15 degrees |
| BDTH | operate base down to horizontal |
| BDTHCH | operate base down to horizontal with filament coil axis horizontal |
| ANYCH | base in any position, but with filament coil axis horizontal |
| BD30 | base down +-30 degrees |
| BD45 | base down +-45 degrees |

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
FluorescentLED Lamps,
Tubes and Modules

Stage and Studio

Miniature, Sealed
Beam and Automotive

Projection

Miniature, Sealed Beam and Automotive Lamps

North American Vehicles 8-7

Nighthawk® Automotive Lighting 8-9

Long Life and Discharge Automotive Lighting8-11

Heavy Duty Truck and Automotive Lighting8-13

Assortment Architecture Matrix.....8-15

Cross Reference8-17

Lamp Locator8-19

Miniature Bases8-20

Sealed Beam Lamps8-20

Sealed Beam Bases8-20

Introduction8-21

Section Headers.....8-22

Lamps

 Miniature Lamps8-22

 Sealed Beam and Automotive Lamps8-31

Footnotes8-34

Warning and Caution Notices8-35

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
Fluorescent

LED Lamps,
Tubes and Modules

Stage and Studio

**Miniature, Sealed
Beam and Automotive**

Projection

GE LIGHTING: INNOVATING TECHNOLOGY

A revolutionary advance from a leader in automotive lighting.

Every technological advance we make is backed by our global reputation as a trusted partner, and an unwavering commitment to the customers we serve. With a wide variety of quality options, you can be sure that there is a GE Automotive lighting product for everything on wheels.



imagination at work

GE HAS THE RIGHT LIGHT FOR YOUR VEHICLE



| Product Produit Producto | Feature Feature Características | Benefit Benefit Beneficios | Miniatures Miniatures Miniaturas | Sealed Beam Faisceau étanche Haz sellado | Fog Feu de brouillard Faro antiniebla | Halogen Composite Composite Halogène Compuestos Halógenos |
|--------------------------------|---|--|--|--|---|---|
| GE NIGHTHAWK™ LED | Superior LED technology Superior technologie LED Superior tecnología LED | Bright, white light that's virtually maintenance-free Lumineux, lumière blanche et pratiquement sans entretien Luz blanca brillante que es virtualmente libre de mantenimiento | | ✓ | | |
| GE NIGHTHAWK™ Xenon | HID caliber performance and style HID performance de calibre et de style HID calidad rendimiento y estilo | Exceptional visibility Une visibilité exceptionnelle Visibilidad excepcional | | | | ✓ |
| GE NIGHTHAWK™ Platinum | Up to 90% more light* Jusqu'à 90% de lumière en plus* Hasta un 90% más de luz* | Better visibility during night time driving Une meilleure visibilité en conduite de nuit Una mejor visibilidad durante la noche conducción | | | | ✓ |
| GE NIGHTHAWK™ Sport | Crisp, blue-white light Croustillant, bleu-blanc lumineux Crespo, luz blanca azulada | Increased contrast provides improved visibility Augmentation du contraste fournit une meilleure visibilité Mayor contraste para una mayor visibilidad | | ✓ | | ✓ |
| GE NIGHTHAWK™ | Up to 50% more light* Jusqu'à 50% de lumière en plus* Hasta un 50% más de luz* | Improved visibility during night time driving Visibilité améliorée pendant la nuit lors de la conduite Mejora de la visibilidad durante la noche conducción | ✓ | ✓ | ✓ | ✓ |
| Long Life | 2-6x the life of a standard** 2-6x plus longue durée de vie** Ya 2-6x vida** | Save time and money, less maintenance Économisez du temps et de l'argent, moins de maintenance Ahorre tiempo y dinero, menor mantenimiento | ✓ | ✓ | | ✓ |
| Standard | High quality OE value Haute qualité OE valeur OE valor Alta calidad | Dependable performance Performances fiables Rendimiento fiable | ✓ | ✓ | ✓ | ✓ |

*GE NIGHTHAWK™ halogen lamps focus more light in an area illuminated with more than 15,000 candelas in light intensity compared to a standard halogen headlamp bulb. Specific light levels vary by bulb type and headlamp assembly. See page 8-14 for illustration.

**Long Life lamps last up to 2-6x longer when compared to standard GE halogen lamps.

REVOLUTIONARY HEADLIGHT PERFORMANCE



GE NIGHTHAWK™ XENON: Get closer to the look and feel of HID lighting without the cost or hassle of conversion.

Few things attract an auto enthusiast's gaze like the cutting-edge look of HID headlamps. That is, until they see the high cost of conversion. Now there's a revolutionary solution that delivers performance and style close to HID-caliber lighting at a fraction of the cost: GE NIGHTHAWK™ XENON headlamps.

- up to **120%** more light*
- bright white light
- breakthrough performance
- exceptional visibility

GE NIGHTHAWK™ PLATINUM: High performance lamps for visibility, convenience and style.

No matter the nighttime driving conditions, GE NIGHTHAWK™ PLATINUM headlamps give you a better chance of seeing – and reacting to – what's ahead of you. The bottom line is: with more light on the road, you'll have more peace of mind.

- up to **90%** more light*
- improved reaction time
- greater visibility

THE RIGHT LIGHT

FOR NEARLY EVERYTHING ON WHEELS















| | GE NIGHTHAWK™ LED: 15,000 HOUR LAMP | GE NIGHTHAWK™ XENON: UP TO 120% MORE LIGHT** | GE NIGHTHAWK™ PLATINUM: UP TO 90% MORE LIGHT** | GE NIGHTHAWK™ SPORT: UP TO 50% MORE LIGHT** |
|-----------------|--|--|---|--|
| Feature/Benefit | <ul style="list-style-type: none"> 3 yr warranty* bright white light exceptional visibility | <ul style="list-style-type: none"> up to 120% more light* bright white light breakthrough performance exceptional visibility | <ul style="list-style-type: none"> up to 90% more light* improved reaction time greater visibility | <ul style="list-style-type: none"> up to 50% more light* more visibility blue white color |
| Available in: | LED 7" RND, LED 200 RECT, LED 4.5" RND | 9003, 9005, 9006, 9007, H1, H4, H7, H11 | 9003, 9004, 9005, 9006, 9007, H1, H4, H7, H11, H13 | 9003, 9004, 9005, 9006, 9007, H7, H13, H4656, H4666, H6024, H6054 |

*GE NIGHTHAWK™ halogen lamps focus more light in an area illuminated with more than 15,000 candelas in light intensity compared to a standard halogen headlamp bulb. Specific light levels vary by bulb type and headlamp assembly. See page 8-14 for illustration.

Miniature, Sealed Beam and Automotive Lamps



| GE NIGHTHAWK™: UP TO 50% MORE LIGHT** | LONG LIFE: 2-6X LONGER LIFE** | STANDARD | HID |
|---|--|---|--|
| <p>up to</p>  <p>50% more light*</p>  <p>improved reaction time</p>  <p>more visibility</p> |  <p>OEM quality</p>  <p>2-6X longer life*</p>  <p>less time on maintenance</p> |  <p>smart value</p>  <p>OEM quality</p> <p>meets</p>  <p>DOT requirements</p> |  <p>exceptional visibility</p>  <p>lasting performance</p>  <p>white light</p> |
| <p>9003, 9004, 9005, 9006, 9007, H1, H4, H7, H13, H4656, H4666, H6024, H6054</p> | <p>9003, 9004, 9005, 9006, 9007, H1, H7, H11, H5024, H5051, H5054, H5062</p> | <p>9003, 9004, 9005, 9006, 9007, 9008, H1, H3, H4, H7, H9, H11, H4656, H4666, H6024, H6054</p> | <p>D1S, D2R, D2S, D2S BLUE</p> |

Feature / Benefit

Available in:

*GE NIGHTHAWK™ halogen lamps focus more light in an area illuminated with more than 15,000 candelas in light intensity compared to a standard halogen headlamp bulb. Specific light levels vary by bulb type and headlamp assembly. See page 8-14 for illustration.
 **Long Life lamps last up to 2-6x longer when compared to standard GE halogen lamps.

North American Vehicles
Véhicules d'Amérique du Nord
Vehículos Norteamericanos

FRONT VIEW
VUE DE FACE
VISTA FRONTAL



Headlights and Discharge Lamps - Phares avant/Lampes à décharge
Faros y Lámparas de Descarga

Front Turn/Hazard - Feux clignotants avant/Détresse - Giro/Emergencia

Fog - Feux antibrouillards - Niebla

Dashboard - Tableau de bord - Tablero de Instrumentos

Side Marker - Feu de gabarit - Lateral

Side Marker - Feu de gabarit - Lateral

| | | |
|-----|----|------|
| 161 | 37 | 1893 |
| 194 | 74 | |

Headlights and Discharge Lamps - Phares avant/Lampes à décharge - Faros y Lámparas de Descarga

| | | | | | | | | | | | | |
|------|------|------|------|------|----|----|----|-----|-----|----|-----|-----|
| 9003 | 9004 | 9005 | 9006 | 9007 | H4 | H7 | H9 | H11 | H13 | D1 | D2S | D2R |
|------|------|------|------|------|----|----|----|-----|-----|----|-----|-----|

| | | | | | | | |
|----------------|----------------|-------|----------------|-------|-------|-------|-------|
| H4351 H4352 | H4701 H4703 | H4651 | H4656 H4666 | H5001 | H5006 | H6024 | H6054 |
|----------------|----------------|-------|----------------|-------|-------|-------|-------|

Front Turn/Hazard - Feux clignotants avant/
Détresse - Giro/Emergencia

| | | | |
|--------------|------------------|--------------|------------------|
| 2157 2057 | 1157NA 2057NA | 3057 3157 | 3057NA 3157NA |
|--------------|------------------|--------------|------------------|

Fog - Feux antibrouillards - Niebla

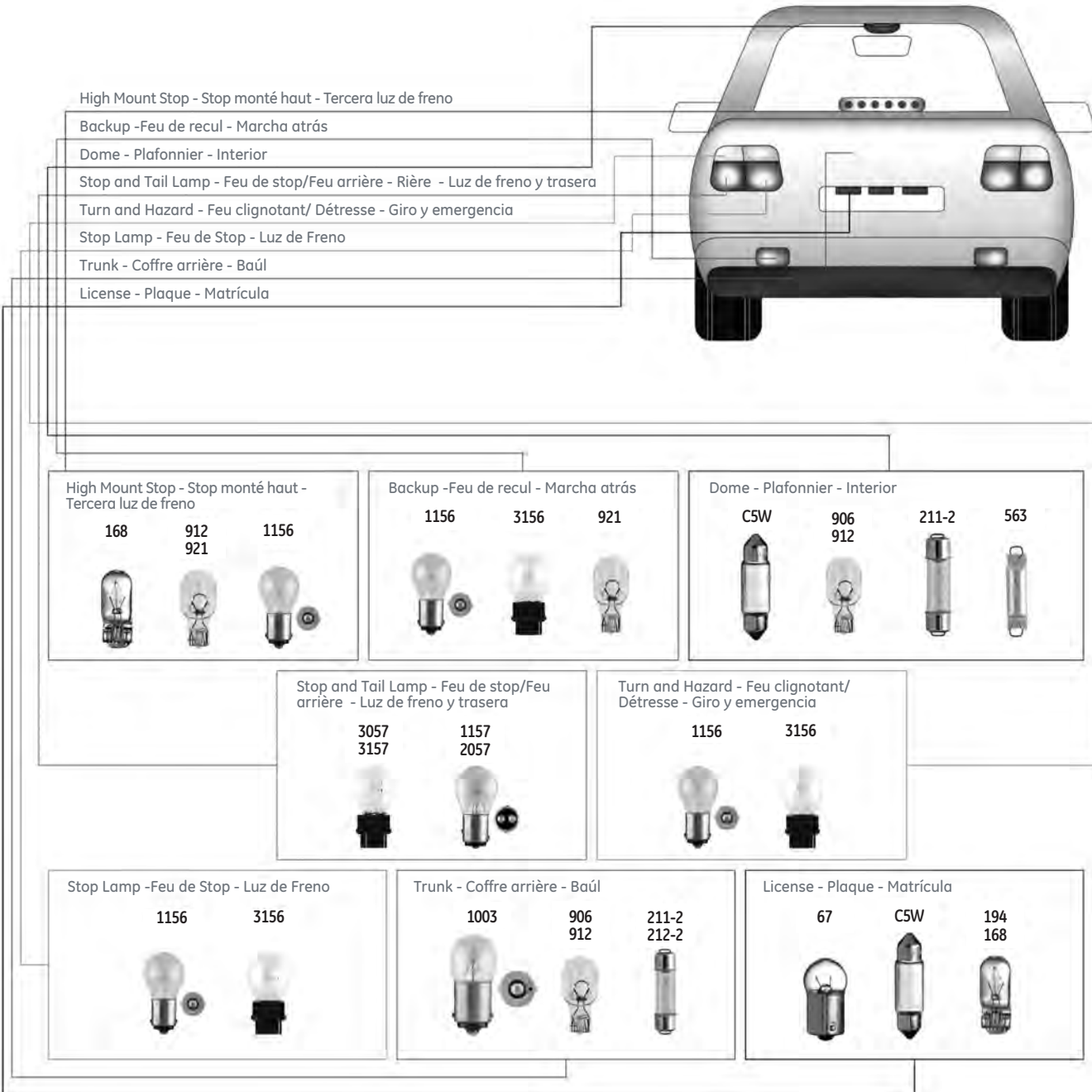
| | | | |
|----|----|-----------------|------|
| H1 | H3 | 880 885 893 | 9145 |
|----|----|-----------------|------|

Dashboard - Tableau de bord
Tablero de Instrumentos

| | |
|-----|-------|
| 194 | 194NA |
|-----|-------|

Miniature, Sealed Beam and Automotive Lamps

REAR VIEW
VUE DE DOS
VISTA POSTERIOR



GE NIGHTHAWK™ Automotive Lighting

Éclairage Automobile GE NIGHTHAWK™

Iluminación para automóviles GE NIGHTHAWK™

GE NIGHTHAWK LED™: 15,000 Hour Lamp

| Product Code | Lamp Description | Direct Replacement For | Color | Meets DOT Requirements | Lamps/ Card | Cards/ Inner | Cards/ Master |
|--------------|------------------|--|-------|------------------------|-------------|--------------|---------------|
| 69821 | NH LED 7" RND | 6012, 6014, 6015, 6016, 6017, H5024, H6024 | 5600K | ✓ | 1 | 6 | 24 |
| 69822 | NH LED 200 RECT | 6052, 6053, H5054, H6054 | 5600K | ✓ | 1 | 6 | 24 |
| 69823 | NH LED 4.5" RND | Coming 2014 | 5600K | ✓ | 1 | 6 | 24 |



GE NIGHTHAWK™ XENON: Up to 120% More Light†

| Product Code | Lamp Description | Lamps/ Card | Cards/ Inner | Cards/ Master |
|--------------|------------------|-------------|--------------|---------------|
| 69861 | 9003 NHX/BP2 | 2 | 3 | 12 |
| 69862 | 9005 NHX/BP2 | 2 | 3 | 12 |
| 69863 | 9006 NHX/BP2 | 2 | 3 | 12 |
| 69864 | 9007 NHX/BP2 | 2 | 3 | 12 |
| 69857 | H1 NHX/BP2 | 2 | 3 | 12 |
| 69858 | H4 NHX/BP2 | 2 | 3 | 12 |
| 69860 | H7 NHX/BP2 | 2 | 3 | 12 |
| 69865 | H11 NHX/BP2 | 2 | 3 | 12 |



GE NIGHTHAWK™ PLATINUM: Up to 90% More Light††

| Product Code | Lamp Description | Lamps/ Card | Cards/ Inner | Cards/ Master |
|--------------|------------------|-------------|--------------|---------------|
| 75814 | 9003NHP/BP2 | 2 | 3 | 12 |
| 75815 | 9004NHP/BP2 | 2 | 3 | 12 |
| 75816 | 9005NHP/BP2 | 2 | 3 | 12 |
| 75817 | 9006NHP/BP2 | 2 | 3 | 12 |
| 75818 | 9007NHP/BP2 | 2 | 3 | 12 |
| 78134 | H1-55NHP/BP2 | 2 | 3 | 12 |
| 75820 | H4-60NHP/BP2 | 2 | 3 | 12 |
| 75821 | H7-55NHP/BP2 | 2 | 3 | 12 |
| 62267 | H11-55NHP/BP2 | 2 | 3 | 12 |
| 62430 | H13NHP/BP2 | 2 | 3 | 12 |



†GE NIGHTHAWK™ XENON headlamps focus up to 120% more light on the road - flux projected to area with more than 15,000 candelas in light intensity compared to a standard halogen headlamp bulb. Specific light levels vary by bulb type and headlamp assembly.
 ††GE NIGHTHAWK™ PLATINUM headlamps focus up to 90% more light on the road - flux projected to area with more than 15,000 candelas in light intensity compared to a standard halogen headlamp bulb. Specific light levels vary by bulb type and headlamp assembly.

Miniature, Sealed Beam and Automotive Lamps

GE NIGHTHAWK SPORT™: Up to 50% More Light†

| Product Code | Lamp Description | Lamps/ Card | Cards/ Inner | Cards/ Master |
|--------------|------------------|-------------|--------------|---------------|
| 89139 | 9003NHS/BP | 1 | 3 | 24 |
| 66004 | 9003NHS/BP2 | 2 | 3 | 12 |
| 97698 | 9004NHS/BP | 1 | 3 | 24 |
| 97699 | 9004NHS/BP2 | 2 | 3 | 12 |
| 89140 | 9005NHS/BP | 1 | 3 | 24 |
| 66005 | 9005NHS/BP2 | 2 | 3 | 12 |
| 97700 | 9006NHS/BP | 1 | 3 | 24 |
| 97701 | 9006NHS/BP2 | 2 | 3 | 12 |
| 97696 | 9007NHS/BP | 1 | 3 | 24 |
| 97697 | 9007NHS/BP2 | 2 | 3 | 12 |
| 89141 | H7-55NHS/BP | 1 | 3 | 24 |
| 66006 | H7-55NHS/BP2 | 2 | 3 | 12 |
| 78654 | H13NHS/BP2 | 2 | 3 | 12 |
| 97695 | H4656NHS | 1 | - | 6 |
| 97694 | H4666NHS | 1 | - | 6 |
| 97693 | H6024NHS | 1 | - | 6 |
| 97692 | H6054NHS | 1 | - | 6 |



GE NIGHTHAWK™ Composite Headlamps: Up to 50% More Light on the Road‡

| Product Code | Lamp Description | Lamps/ Card | Cards/ Inner | Cards/ Master |
|--------------|------------------|-------------|--------------|---------------|
| 25150 | 9003NH/BP | 1 | 3 | 24 |
| 25107 | 9003NH/BP2 | 2 | 3 | 12 |
| 25149 | 9004NH/BP | 1 | 3 | 24 |
| 25106 | 9004NH/BP2 | 2 | 3 | 12 |
| 25148 | 9005NH/BP | 1 | 3 | 24 |
| 25105 | 9005NH/BP2 | 2 | 3 | 12 |
| 25147 | 9006NH/BP | 1 | 3 | 24 |
| 25104 | 9006NH/BP2 | 2 | 3 | 12 |
| 25146 | 9007NH/BP | 1 | 3 | 24 |
| 25103 | 9007NH/BP2 | 2 | 3 | 12 |
| 25159 | H1-55NH/BP | 1 | 3 | 24 |
| 25092 | H1-55NH/BP2 | 2 | 3 | 12 |
| 25094 | H4-60NH/BP1 | 1 | 3 | 24 |
| 25095 | H7-55NH/BP2 | 2 | 3 | 12 |
| 25160 | H7-55NH/BP | 1 | 3 | 24 |
| 78653 | H13NH/BP2 | 2 | 3 | 12 |



GE NIGHTHAWK™ Fog Lamps: Up to 30% More Light on the Road‡

| Product Code | Lamp Description | Lamps/ Card | Cards/ Inner | Cards/ Master |
|--------------|------------------|-------------|--------------|---------------|
| 25163 | 880NH/BP | 1 | 3 | 24 |
| 25101 | 880NH/BP2 | 2 | 3 | 12 |
| 25172 | 893NH/BP | 1 | 3 | 24 |
| 25102 | 893NH/BP2 | 2 | 3 | 12 |

GE NIGHTHAWK™ Sealed Beam Headlamps: Up to 30% More Light on the Road‡

| Product Code | Lamp Description | Lamps/ Card | Cards/ Inner | Cards/ Master |
|--------------|------------------|-------------|--------------|---------------|
| 25098 | H4656NH | 1 | - | 6 |
| 28157 | H4666NH | 1 | - | 6 |
| 28153 | H6024NH | 1 | - | 6 |
| 25097 | H6054NH | 1 | - | 6 |

†GE NIGHTHAWK™ SPORT halogen lamps focus up to 50% more light in an area illuminated with more than 15,000 candelas in light intensity compared to a standard halogen headlamp bulb.

‡These GE NIGHTHAWK™ lamps focus 30%-50% more light in an area illuminated with more than 15,000 candelas in light intensity compared to a standard halogen headlamp bulb. Specific light levels vary by bulb type and headlamp assembly. See page 8-14 for light distribution illustration.

Long Life and Discharge Automotive Lighting Long Life et Éclairage Automobile de Décharge Iluminación para Automóviles Long Life y Descarga

Long Life Headlamps: 2-6X Longer Life**

| Product Code | Lamp Description | Lamps/ Card | Cards/ Inner | Cards/ Master |
|--------------|------------------|-------------|--------------|---------------|
| 78935 | 9003LL/BP | 1 | 6 | 48 |
| 13993 | 9004LL/BP | 1 | 6 | 48 |
| 45866 | 9005XSLL/BP | 1 | 6 | 48 |
| 45868 | 9006XSLL/BP | 1 | 6 | 48 |
| 78639 | 9007LL/BP | 1 | 6 | 48 |
| 12777 | H1-LL | 1 | - | 300 |
| 78640 | H7-55LL/BP | 1 | 6 | 48 |
| 89255 | H11-55LL/BP | 1 | 6 | 48 |
| 19428 | H5024 | 1 | - | 6 |
| 19411 | H5051 | 1 | - | 6 |
| 19429 | H5054 | 1 | - | 6 |
| 19412 | H5062 | 1 | - | 6 |



HID

Ordering information

| Description | Characteristic | Watts | Color Temperature | Packaging | Product Code |
|-------------|--------------------------------|-------|-------------------|------------|--------------|
| D1S Unit | HID projection beam | 35 | 4200K | 1/4/12 box | 78734 |
| D2R Unit | HID reflector beam | 35 | 4000K | 1/6/24 box | 80851 |
| D2R Bulk | HID reflector beam | 35 | 4000K | 144 bulk | 46911 |
| D2S Unit | HID projection beam | 35 | 4200K | 1/6/24 box | 25088 |
| D2S Bulk | HID projection beam | 35 | 4200K | 144 bulk | 48504 |
| D2S Blue | Off road only - no highway use | 35 | 5100K | 1/32 box | 90057 |



**Long Life lamps last up to 2-6x longer when compared to standard GE halogen lamps.

Miniature, Sealed Beam and Automotive Lamps

Standard Headlamps

| Product Code | Lamp Description | Lamps/ Card | Cards/ Inner | Cards/ Master |
|--------------|------------------|-------------|--------------|---------------|
| 22389 | 9003 | 1 | - | 100 |
| 22432 | 9003/BP | 1 | 6 | 48 |
| 72252 | 9003/BP2 | 2 | - | 4 |
| 13382 | 9004 | 1 | - | 100 |
| 18508 | 9004/BP | 1 | 6 | 48 |
| 14604 | 9004/BP2 | 2 | - | 6 |
| 13384 | 9005 | 1 | - | 100 |
| 18509 | 9005/BP | 1 | 6 | 48 |
| 13397 | 9006 | 1 | - | 100 |
| 18510 | 9006/BP | 1 | 6 | 48 |
| 25135 | 9006/BP2 | 2 | - | 4 |
| 20551 | 9007 | 1 | - | 100 |
| 22388 | 9007/BP | 1 | 6 | 48 |
| 25136 | 9007/BP2 | 2 | - | 4 |
| 71342 | 9008 (H13)/BP | 1 | 6 | 48 |
| 40843 | 9145/BP | 1 | 6 | 48 |
| 40336 | H1-55/BP | 1 | 6 | 48 |
| 12339 | H3-55/BP | 1 | 6 | 48 |
| 12341 | H3-100/BP | 1 | 6 | 48 |
| 27334 | H4-60/55 | 1 | - | 10 |
| 18132 | H4-60/55/BP | 1 | 6 | 48 |
| 89256 | H4-60MS/BP | 1 | 3 | 24 |
| 26374 | H7-55/BP | 1 | 6 | 48 |
| 29047 | H8-35W BP | 1 | 6 | 48 |
| 29049 | H9-65W BP | 1 | 6 | 48 |
| 23762 | H11-55/BP | 1 | 6 | 48 |
| 18533 | H4656 | 1 | - | 6 |
| 18535 | H4666 | 1 | - | 6 |
| 18525 | H6024 | 1 | - | 6 |
| 18534 | H6054 | 1 | - | 6 |



Standard Fog Lamps

| Product Code | Lamp Description | Product Code | Lamp Description |
|--------------|------------------|--------------|------------------|
| 12320 | 880/BP | 22112 | 894/BP |
| 12334 | 881/BP | 22113 | 896/BP |
| 12335 | 885/BP | 98093 | 898/BP |
| 14689 | 886/BP | 22111 | 899/BP |
| 12336 | 889/BP | 40843 | 9145/BP |
| 12337 | 890/BP | 40336 | H1-55/BP |
| 12308 | 891/BP | 12339 | H3-55/BP |
| 12338 | 893/BP | 12341 | H3-100/BP |



Heavy Duty Truck Automotive Lighting Éclairage Automobile de Camions Iluminación de Alto Rendimiento para Camiones

GE NIGHTHAWK LED™: 15,000 Hour Lamp

| Product Code | Lamp Description | Direct Replacement For | Color | Meets DOT Requirements | Lamps/Card | Cards/Inner | Cards/Master |
|--------------|------------------|--|-------|------------------------|------------|-------------|--------------|
| 69821 | NH LED 7" RND | 6012, 6014, 6015, 6016, 6017, H5024, H6024 | 5600K | ✓ | 1 | 6 | 24 |
| 69822 | NH LED 200 RECT | 6052, 6053, H5054, H6054 | 5600K | ✓ | 1 | 6 | 24 |
| 69823 | NH LED 4.5" RND | Coming 2014 | 5600K | ✓ | 1 | 6 | 24 |



Long Life Headlamps: 2-6X Longer Life**

| Product Code | Lamp Description | Lamps/Card | Cards/Inner | Cards/Master |
|--------------|------------------|------------|-------------|--------------|
| 78935 | 9003LL/BP | 1 | 6 | 48 |
| 13993 | 9004LL/BP | 1 | 6 | 48 |
| 45866 | 9005XSLL/BP | 1 | 6 | 48 |
| 45868 | 9006XSLL/BP | 1 | 6 | 48 |
| 78639 | 9007LL/BP | 1 | 6 | 48 |
| 12777 | H1-LL | 1 | - | 300 |
| 78640 | H7-55LL/BP | 1 | 6 | 48 |
| 89255 | H11-55LL/BP | 1 | 6 | 48 |
| 19411 | H5051 | 1 | - | 6 |
| 19412 | H5062 | 1 | - | 6 |
| 19428 | H5024 | 1 | - | 6 |
| 19429 | H5054 | 1 | - | 6 |



**Long Life lamps last up to 2-6x longer when compared to standard GE halogen lamps.

Miniature, Sealed Beam and Automotive Lamps

Standard Replacement Sealed Beam Lamps

| Product Code | Lamp Description | Product Code | Lamp Description | Product Code | Lamp Description |
|--------------|------------------|--------------|----------------------|--------------|----------------------|
| 18511 | 4000 | 25114 | 6006 | 18525 | H6024 |
| 24448 | 4411 | 18519 | 6014 | 28153 | H6024NH* |
| 24454 | 4412 | 38416 | 6015 | 18534 | H6054 |
| 24460 | 4412A | 18521 | 6052 | 14752 | H6054HO ^o |
| 24478 | 4414 | 22386 | H4351 | 25097 | H6054NH* |
| 22982 | 4415 | 22387 | H4352 | 43576 | H7604 |
| 24499 | 4415A | 18532 | H4656 | 49695 | H7612 |
| 24539 | 4421 | 14753 | H4656HO ^o | 45058 | H7621-1 |
| 24572 | 4434A | 18535 | H4666 | 13426 | H7921-1 |
| 18517 | 4651 | 28157 | H4666NH* | 16484 | H9415 |
| 18518 | 4652 | 18536 | H4701 | 17988 | H9415A |
| 24973 | 4800 | 18538 | H4703 | 16976 | H9420 |
| 45110 | 4912-1 | 18522 | H5001 | 16482 | H9421 |
| 45116 | 4921-1 | 18523 | H5006 | | |

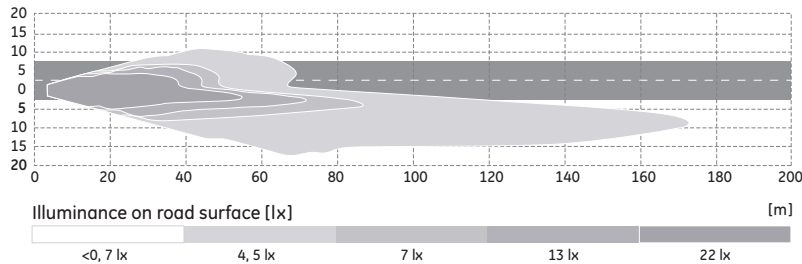


Standard Replacement Headlamps

| Product Code | Lamp Description | Product Code | Lamp Description | Product Code | Lamp Description |
|--------------|------------------|--------------|------------------|--------------|------------------|
| 22432 | 9003/BP | 45866 | 9005XSSL/BP | 27342 | H4-75/70 |
| 25150 | 9003NH/BP* | 18510 | 9006/BP | 26374 | H7-55/BP |
| 18508 | 9004/BP | 25147 | 9006NH/BP* | 29049 | H9 65W BP |
| 25149 | 9004NH/BP* | 45868 | 9006XSSL/BP | 23762 | H11-55/BP |
| 18509 | 9005/BP | 22388 | 9007/BP | 80851 | D2R UNIT |
| 25148 | 9005NH/BP* | 25146 | 9007NH/BP* | 25088 | D2S UNIT |
| | | 27334 | H4-60/55 | 78734 | D1S UNIT |



GE NIGHTHAWK™ PLATINUM



* GE NIGHTHAWK™ halogen lamps focus more light in an area illuminated with more than 15,000 candelas in light intensity compared to a standard halogen headlamp bulb. Specific light levels vary by bulb type and headlamp assembly.

^o High Output headlamps offer increased light output over standard halogen.

Assortment Architecture Matrix Assortiment D'ampoules Surtido De Arquitectura De Matriz

HID Discharge • HID Décharge • HID Descarga

| Bulb Type Type D'ampoule Tipo De Lápara | Projection Beam Faisceau de projection Proyección del Haz | Reflector Beam Réflecteur Reflector de Haz | Off Road Only - No Highway Hors route uniquement - Pas sur route Sólo Off Road - Momentos de Peligro |
|---|---|--|--|
| D1S | D1S | - | - |
| D2R | - | D2R | - |
| D2S | D2S | - | D2SBlue & D2S Superblue |

Halogen Composite • Halogène Composit • Halógeno Compuesto

| Bulb Type Type D'ampoule Tipo De Lápara | Long Life La Fiabilité Fiabilidad | GE NIGHTHAWK™ | GE NIGHTHAWK™ SPORT | GE NIGHTHAWK™ PLATINUM | GE NIGHTHAWK™ XENON |
|---|---|---------------|------------------------|---------------------------|------------------------|
| 9003 | 9003LL | 903NH | 9003NHS | 9003NHP | 9003NHX |
| 9004 | 9004LL | 9004NH | 9004NHS | 9004NHP | - |
| 9005 | 9005LL | 9005NH | 9005NHS | 9005NHP | 9005NHX |
| 9006 | 9006LL | 9006NH | 9006NHS | 9006NHP | 9006NHX |
| 9007 | 9007LL | 9007NH | 9007NHS | 9007NHP | 9007NHX |
| 9005XS | 9005XSLL | - | - | - | - |
| 9006XS | 9006XSLL | - | - | - | - |
| H1-55 | - | H1-55NH | - | H1-55NHP | H1-55NHX |
| H4-60 | - | H4-60NH | - | H4-60NHP | H4-60NHX |
| H7-55 | H7-55LL | H7-55NH | H7-55NHS | H7-55NHP | H7-55NHX |
| H11-55 | H11-55LL | H11-55NH | H11-55NHS | H11-55NHP | H11-55NHX |
| H13 (9008) | - | H13NH | H13NHS | H13NHP | - |

Halogen Sealed Beam • Halogène Faisceau Scelle • Halógeno Sellado Rayo

| Bulb Type Type D'ampoule Tipo De Lápara | Long Life La Fiabilité Fiabilidad | GE NIGHTHAWK™ | GE NIGHTHAWK™ SPORT |
|---|---|---------------|------------------------|
| H4656, H4656LL, H4740, 4652, HP4656 | H4656LL | H4656NH | H4656NHS |
| H6054, H6054LL, H6059, 6052, 6053, HP6054, H5054 | H6054LL | H6054NH | H6054NHS |
| H4666 HP4666, H6545, HP6545 | - | H4666NH | H4666NHS |
| H6024, H6026LL, 6014, 6015, 6016 | H6024LL | H6024NH | H6024NHS |
| 4651, H4651, H5051? | H5051 | - | - |
| 4652, H4656, H4662, 4739, H5062?, H5024? | H5062 | - | - |
| 6012, 6014, 6015, 6016, 6017, H6024, H6026 | H5024 | - | - |
| 6052, 6053, H6054 | H5054 | - | - |

Miniature, Sealed Beam and Automotive Lamps

Assortment Architecture Matrix Assortiment D'ampoules Surtido De Arquitectura De Matriz

Miniature • Miniature • Miniatura

| Lamp | Standard OEM Standard OEM Estándar OEM | | Long Life La fiabilidad Fiabilidad | | GE NIGHTHAWK™ | | Popular Applications |
|--------|--|------------------|--|------------------|---------------|------------------|---|
| | Product Code | Lamp Description | Product Code | Lamp Description | Product Code | Lamp Description | |
| 67 | 25652 | 67 | - | - | 71895 | 67 NH/BP2 | License, Cargo • Plaque, Cargo • Licencia, de Cargo |
| 89 | 12363 | 89/BP2 | 47797 | 89LL/BP2 | - | - | Instrument, License, Step/Courtesy, Underhood • Instrument, Plaque, Pied/Courtoisie, Sous le Capot • Instrumento, de Licencia, Paso/Coresía, Debajo del Capó |
| 93 | 25811 | 93 | - | - | 71904 | 93 NH/BP2 | Underhood, Backup • Sous le Capot, Backup • Bajo el Capó, de Copia de Seguridad |
| 161 | 23016 | 161/BP2 | - | - | 71902 | 161 NH/BP2 | Instrument • Instrument • Instrumento |
| 168 | 12327 | 168/BP2 | 47827 | 168LL/BP2 | 89239 | 168NH/BP2 | License, Courtesy, Map, Cargo, High Mount Stop • Plaque de Courtoisie, Carte, Cargo, Haute Arrêtez le Mont • Licencia, de Cortesía, Mapa, de Cargo, Alta Detener el Monte |
| 194 | 12328 | 194/BP2 | 25832 | 194LL/BP2 | 89240 | 194NH/BP2 | Instrument, License, Dome, Sidemarker • Instrument, Licnce, Dome, Sidemarker • Instrumento, Licencia, Cúpula, Sidemarker |
| 194NA | 12319 | 194NA/BP2 | 47794 | 194NA/LL/BP2 | 71894 | 194NA NH/BP2 | Front Sidemarker • Sidemarker Avant • Sidemarker Frente |
| 211-2 | 12673 | 211-2/BP2 | - | - | 71900 | 211-2 NH/BP2 | Cargo, Trunk, Dome • Cargo, Tranc, Dome • De Cargo, del Tranco, la Cúpula |
| 912 | 12365 | 912/BP2 | - | - | 89242 | 912NH/BP2 | Dome, High Mount Stop, Cargo • Dome, Butée Haute Montagne, Cargo • Dome, Parada de Alta Montaña, de Cargo |
| 921 | 12307 | 921/BP2 | - | - | 89238 | 921NH/BP2 | Backup, High Mount Stop, Cargo • Sauvegarde, Butée Haute Montagne, Cargo • Copia de Seguridad, Parada de Alta Montaña, de Cargo |
| 922 | 23027 | 922/BP2 | - | - | 71903 | 922 NH/BP2 | High Mount Stop, Courtesy • Butée Haute Montagne, Courtoisie • Parada de Alta Montaña, Cortesía |
| 1003 | 12367 | 1003/BP2 | 47800 | 1003LL/BP2 | - | - | License, Underhood • Plaque, Sous le Capot • Licencia, Debajo del Capó |
| 1073 | 26838 | 1073 | - | - | 71905 | 1073 NH/BP2 | Directional, Stop and Backup • Directionnel, Stop et de Sauvegarde • Deje de Dirección y Copia de Seguridad |
| 1141 | 12346 | 1141/BP2 | 47802 | 1141LL/BP2 | 71897 | 1141 NH/BP2 | Directional, Stop and Backup • Directionnel, Stop et de Sauvegarde • Deje de Dirección y Copia de Seguridad |
| 1154 | 12297 | 1154/BP2 | - | - | 71889 | 1154NH/BP2 | Directional, Stop and Tail Lamp • Directionnel, Stop et de Sauvegarde, et Feux Arriá • Deje de Dirección, Copia de Seguridad, Luces Traseras |
| 1156 | 12344 | 1156/BP2 | 23334 | 1156LL/BP2 | 89241 | 1156NH/BP2 | Directional, Stop and Backup • Directionnel, Stop et de Sauvegarde • Deje de Dirección y Copia de Seguridad |
| 1157 | 12294 | 1157/BP2 | 23337 | 1157LL/BP2 | 89236 | 1157NH/BP2 | Directional, Stop and Tail Lamp • Directionnel, Stop et de Sauvegarde, et Feux Arriá • Deje de Dirección, Copia de Seguridad, Luces Traseras |
| 1157NA | 12310 | 1157NA/BP2 | 47798 | 1157NALL/BP2 | 71891 | 1157NA NH/BP2 | Directional, Parking Lamp • Directionnel, Feu de Stationnement • Directionnelles, Luz de Estacionamiento |
| 1895 | 12330 | 1895/BP2 | - | - | 71896 | 1895 NH/BP2 | Instrument, Sidemarker • Instrument, Sidemarker • Instrumento, Sidemarker |
| 2057 | 12296 | 2057/BP2 | 23339 | 2057 LL/BP2 | 89237 | 2057NH/BP2 | Directional, Stop and Tail Lamp • Directionnel, Stop et de Sauvegarde, et Feux Arriá • Deje de Dirección, Copia de Seguridad, Luces Traseras |
| 2057NA | 12312 | 2057NA/BP2 | 47799 | 2057NALL/BP2 | 71892 | 2057NA NH/BP2 | Directional, Parking Lamp • Directionnel, Feu de Stationnement • Directionnelles, Luz de Estacionamiento |
| 2357 | 12298 | 2357/BP2 | - | - | 71890 | 2357NH/BP2 | Directional, Stop and Tail Lamp • Directionnel, Stop et de Sauvegarde, et Feux Arriá • Deje de Dirección, Copia de Seguridad, Luces Traseras |
| 3057 | 12305 | 3057/BP2 | 26378 | 3057LL/BP2 | 89243 | 3057NH/BP2 | Directional, Stop and Tail Lamp • Directionnel, Stop et de Sauvegarde, et Feux Arriá • Deje de Dirección, Copia de Seguridad, Luces Traseras |
| 3156 | 12351 | 3156/BP2 | 27565 | 3156LL/BP2 | 71898 | 3156 NH/BP2 | Backup, Cornering, Directional • Directionnel, Sauvegarde, les Virages • Copia de Seguridad, en Curvas, Directionnel |
| 3157 | 12306 | 3157/BP2 | 26377 | 3157LL/BP2 | 89244 | 3157NH/BP2 | Directional, Stop and Tail Lamp • Directionnel, Stop et de Sauvegarde, et Feux Arriá • Deje de Dirección, Copia de Seguridad, Luces Traseras |
| 3157NA | 12314 | 3157NA/BP2 | 26380 | 3157NA/LL/BP2 | 71893 | 3157NA NH/BP2 | Directional, Parking Lamp • Directionnel, Feu de Stationnement, Avant Sidemarker • Directionnelles, Luz de Estacionamiento, Frente Sidemarker |
| 3457 | 14387 | 3457/BP2 | 26379 | 3457/LL/BP2 | 71901 | 3457 NH/BP2 | Directional, Stop and Tail Lamp • Directionnel, Stop et de Sauvegarde, et Feux Arriá • Deje de Dirección, Copia de Seguridad, Luces Traseras |
| 4157 | - | - | 15657 | 4157LL/BP2 | - | - | Directional, Stop and Tail Lamp • Directionnel, Stop et de Sauvegarde, et Feux Arriá • Deje de Dirección, Copia de Seguridad, Luces Traseras |
| 4157NA | - | - | 47458 | 4157NA/LL/BP2 | - | - | Directional, Parking Lamp • Directionnel, Feu de Stationnement • Directionnelles, Luz de Estacionamiento |
| 7443 | 26201 | 7443/BP2 | - | - | 89248 | 7443NH/BP2 | Directional, Stop and Tail Lamp • Directionnel, Stop et de Sauvegarde, et Feux Arriá • Deje de Dirección, Copia de Seguridad, Luces Traseras |
| DE3175 | 12354 | DE3175/BP2 | - | - | 89245 | DE3175NH/BP2 | Dome, Courtesy • Dome, Courtoisie • Dome, Cortesía |
| P21W | 23306 | P21W/BP2 | - | - | 89247 | P21W NH/BP2 | Directional, Stop and Backup • Directionnel, Stop et de Sauvegarde • Deje de Dirección y Copia de Seguridad |
| P21/SW | 23303 | P21/SW/BP2 | - | - | 89246 | P21/SW NH/BP2 | Directional, Stop and Tail Lamp • Directionnel, Stop et de Sauvegarde, et Feux Arriá • Deje de Dirección, Copia de Seguridad, Luces Traseras |

Cross Reference Tables Tableau de Renvoi Referencias Cruzadas

Headlamps Phares - Raros

| GE | OSRAM | PHILIPS | WAGNER |
|----------|------------|------------|----------|
| H1-55 | H1 | H1-55W | 1255/H1 |
| H7-55 | H7 | H7-55W | 1255/H7 |
| H9-65 | H9W | H9-65W | 1265/H9 |
| H11-55 | H11 | H11 | 1255/H11 |
| H13 | H13 (9008) | H13 (9008) | 9008 |
| 4000 | 4000 | 4000 | 4000 |
| 4001 | 5001 | 5001 | 5001 |
| 4040 | 4040 | 4040 | 4040 |
| H4351 | H4351 | H4351 | H4351 |
| H4352 | H4352 | H4352 | H4352 |
| 4651 | 4651 | 4651 | 4651 |
| H4651 | H4651 | H4651 | H4651 |
| H4651 | H4651 | H4651 | HP4651 |
| 4652 | 4652 | 4652 | 4652 |
| H4656 | H4656 | H4656 | H4656 |
| H4656 | H4656 | H4656 | HP4656 |
| H4666 | H4666 | H4666 | H6545 |
| H4666 | H4666 | H4666 | HP6545 |
| H4701 | H4701 | H4701 | H4701 |
| H4703 | H4703 | H4703 | H4703 |
| H5001 | H5001 | H5001 | H5001 |
| H5006 | H5006 | H5006 | H5006 |
| H5024 | - | H6017LL | H6024LL |
| H5054 | H6054LL | H6054LL | H6054LL |
| 6006 | 6006 | 6006 | 6006 |
| 6014 | 6014 | 6014 | 6014 |
| 6015 | 6015 | 6015 | 6015 |
| H6024 | H6024 | H6017 | H6024 |
| 6052 | 6052 | 6052 | 6052 |
| H6054 | H6054 | H6054 | H6054 |
| H6054 | H6054 | H6054 | HP6054 |
| 9003 | 9003 | 9003 | 9003 |
| 9004 | 9004 | 9004 | 9004 |
| 9004LL | 9004LL | 9004LL | 9004LL |
| 9005 | 9005 | 9005 | 9005 |
| 9005LL | 9005 | 9005LL | 9005LL |
| 9005XSLL | 9005XS | 9005XS | 9005XS |
| 9005XSLL | 9005XS | 9005XSLL | 9005XS |
| 9006 | 9006 | 9006 | 9006 |
| 9006HO | 9006LL | 9006LL | 9006LL |
| 9006XSLL | 9006XS | 9006XS | 9006XS |
| 9006XSLL | 9006XS | 9006XSLL | 9006XSLL |
| 9007 | 9007 | 9007 | 9007 |
| 9007LL | 9007LL | 9007LL | 9007LL |
| 9011 | - | 9011 | 9011 |
| 9012 | - | - | - |



Miniature Lamps Ampoules Miniatures - Lámparas En Miniatura

| GE | OSRAM | PHILIPS | WAGNER |
|---------|---------|---------|---------|
| 12 | 12 | 12 | 12 |
| 24 | 24 | 24 | 24 |
| 24NA | 24NA | 24NA | 24NA |
| 37 | 37 | 37 | 37 |
| 53 | 53 | 53 | 53 |
| 57 | 57 | 57 | 57 |
| 67 | 67 | 67 | 67 |
| 68 | 68 | 68 | 68 |
| 70 | 70 | 70 | 70 |
| 73 | 73 | 73 | 73 |
| 74 | 74 | 74 | 74 |
| 89 | 89 | 89 | 89 |
| 90 | 90 | 90 | 90 |
| 93 | 93 | 93 | 93 |
| 94 | 94 | 94 | 94 |
| 97 | 97 | 97 | 97 |
| 98 | 98 | 98 | 98 |
| 105 | 105 | 105 | 105 |
| 158 | 158 | 194 | 158 |
| 161 | 161 | 161 | 161 |
| 168 | 168 | 168 | 168 |
| 193 | 193 | 193 | 193 |
| 194 | 194 | 194 | 194 |
| 194B | 194B | 194B | 194B |
| 194G | 194G | 194G | 194G |
| 194NA | 194NA | 194NA | 194NA |
| 194NALL | 194NALL | 194NALL | 194NALL |
| 194R | 194R | 194R | 194R |
| 198 | 1157 | 198 | 198 |
| 199 | 199 | 199 | 199 |
| 211-2 | 211-2 | 211-2 | 211-2 |
| 212-2 | 212-2 | 212-2 | 212-2 |
| 214-2 | 214-2 | 214-2 | 214-2 |
| 293 | 293 | 293 | 293 |
| 330 | 330 | - | 330 |
| 558 | - | 558 | 558 |
| 561 | 561 | 561 | 561 |
| 562 | 562 | 562 | 562 |
| 563 | 563 | 563 | 563 |
| 570 | 570 | 570 | - |
| 577 | 577 | 577 | - |
| 631 | 631 | 631 | 631 |
| 658 | 658 | 658 | 658 |
| 756 | 756 | - | 756 |
| 880 | 880 | 880 | 880 |
| 880LL | 880 | 880 | 880 |
| 881 | 881 | 881 | 881 |
| 881LL | 881 | 881 | 881 |
| 882 | 882 | 882 | 882 |
| 885 | 885 | 885 | 885 |
| 886 | 886 | 886 | 886 |

Miniature, Sealed Beam and Automotive Lamps

Cross Reference Tables Tableau de Renvoi Referencias Cruzadas



Miniature Lamps Ampoules Miniatures - Lámparas En Miniatura

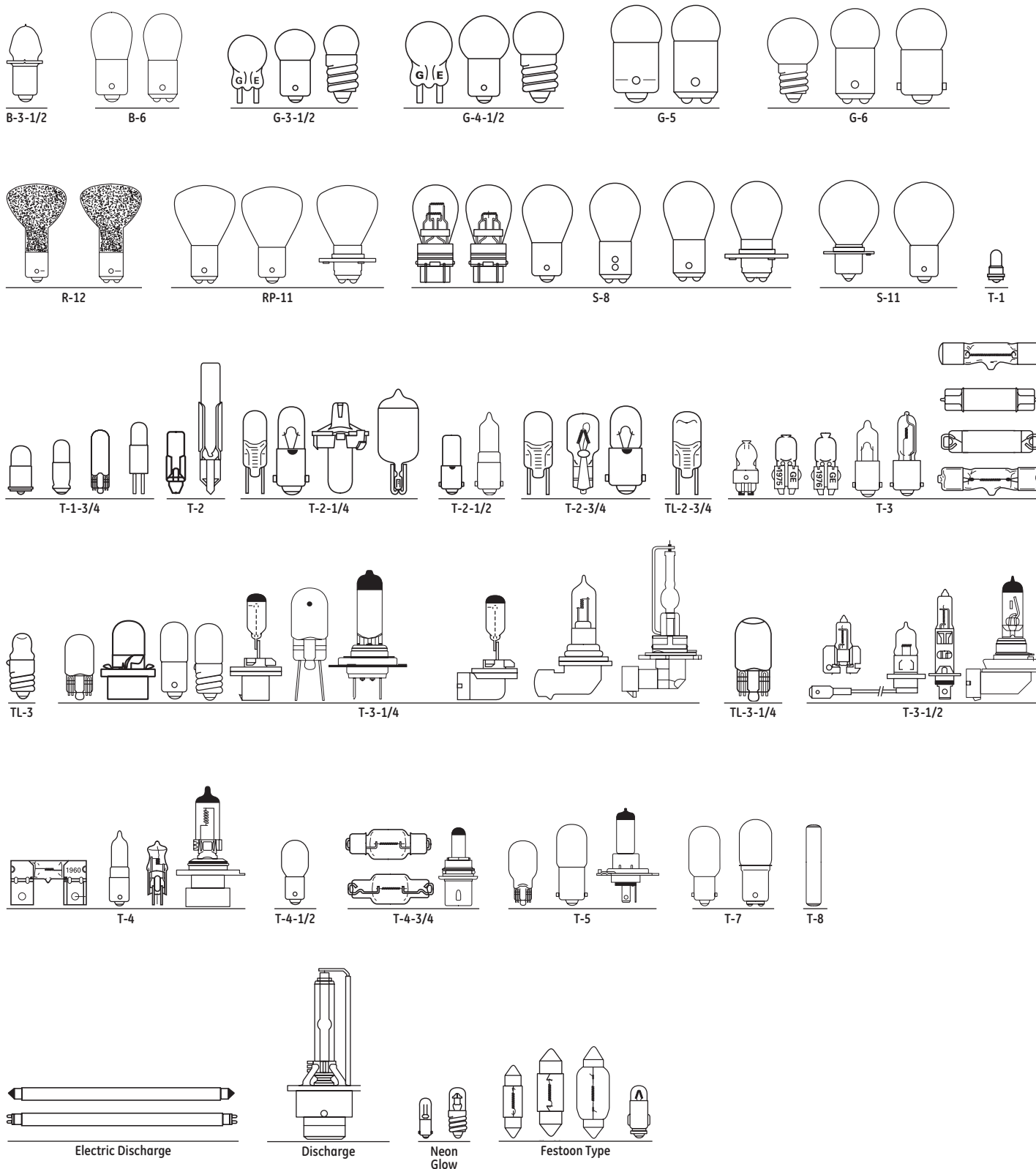
| GE | OSRAM | PHILIPS | WAGNER |
|--------|--------|---------|--------|
| 889 | 889 | 889 | 889 |
| 890 | 890 | 890 | 890 |
| 891 | 891 | 891 | 891 |
| 892 | 892 | 892 | - |
| 893 | 893 | 893 | 893 |
| 894 | 894 | 894 | 894 |
| 896 | 896 | 896 | 896 |
| 898 | 898 | 898 | 898 |
| 899 | 899 | 899 | 899 |
| 904 | 904 | 904 | 904 |
| 906 | 906 | 906 | 906 |
| 912 | 912 | 912 | 912 |
| 916 | 916 | 916 | 916 |
| 916NA | 916NA | 916NA | 916NA |
| 917 | 917 | 912 | 917 |
| 920 | 920 | 920 | 917 |
| 921 | 921 | 921 | 921 |
| 922 | 922 | 922 | 922 |
| 1003 | 1003 | 1003 | 1003 |
| 1004 | 1004 | 1004 | 1004 |
| 1034 | 1034 | 1157 | 1034 |
| 1073 | 1073 | 1156 | 1073 |
| 1141 | 1141 | 1141 | 1141 |
| 1142 | 1142 | 1142 | 1142 |
| 1155 | 1155 | 1155 | 1155 |
| 1156 | 1156 | 1156 | 1156 |
| 1156NA | 1156A | 1156NA | 1156NA |
| 1157 | 1157 | 1157 | 1157 |
| 1157NA | 1157A | 1157NA | 1157NA |
| 1295NA | 1295NA | 1295NA | 1295NA |
| 1445 | 1445 | 1445 | 1445 |
| 1815 | 1815 | 1815 | 1815 |
| 1816 | 1816 | 1816 | 1816 |
| 1889 | 1889 | 1889 | 1889 |
| 1891 | 1891 | 1891 | 1891 |
| 1892 | 1892 | 1892 | 1892 |
| 1893 | 1893 | 1893 | 1893 |
| 1895 | 1895 | 1895 | 1895 |
| 2040 | 2040 | 2040 | 2040 |
| 2057 | 2057 | 2057 | 2057 |
| 2057NA | 2057A | 2057NA | 2057NA |
| 2357 | 2357 | 2357 | 2357 |
| 2357NA | 2357A | 2357NA | 2357NA |
| 2396 | 2396 | 2396 | 2396 |
| 2397 | 2397 | 2397 | 2397 |
| 3057 | 3057 | 3057 | 3057 |
| 3057LL | 3057LL | 3057LL | 3057LL |
| 3057NA | 3057A | 3057NA | 3057NA |
| 3155 | 3155LL | 3155 | 3155 |
| 3156 | 3156 | 3156 | 3156 |

Miniature Lamps Ampoules Miniatures - Lámparas En Miniatura

| GE | OSRAM | PHILIPS | WAGNER |
|-----------|----------|-----------|------------|
| 3156LL | 3156LL | 3156LL | 3156LL |
| 3157 | 3157 | 3157 | 3157 |
| 3157LL | 3157LL | 3157LL | 3157LL |
| 3157NA | 3157A | 3157NA | 3157NA |
| 3157NALL | 3157NALL | 3157NALL | 3157NALL |
| 3457 | 3357 | 3457 | 3357 |
| 3457LL | 3357LL | 3457LL | 3357LL |
| 3457LL | 3457LL | 3457LL | 3457LL |
| 3457NA | 3357NA | 3457NA | 3357NA |
| 3457NA | 3457ALL | 3457NALL | 3457NALL |
| 3496 | 3496 | 3496 | 3496 |
| 3497 | 3497 | 3497 | 3497 |
| 3652 | 3652 | - | 3652 |
| 4157LL | 4157LL | 4157LL | 4157LL |
| 4157NALL | 4157NALL | 4157NALL | 4157NALL |
| 7440 | 7440 | 7440 | 7440 |
| 7443 | 7443 | 7443 | 7443 |
| 9145 | 9145 | 9145BP | 9145 |
| 56110 | 64115 | - | 47835 |
| 58540 | 64111 | 12023 | 47830 |
| C5W | 6418 | 12844 | 11005 |
| DE3021 | DE3021 | 12818 | 11006 |
| DE3022 | DE3022 | 12818 | 13050 |
| DE3175 | DE3175 | DE3175 | 12100 |
| DE3425 | DE3425 | 12854 | 11004 |
| DE757 | 66411 | 12866 | 17314 |
| H1-55 | H1-64150 | H1-55W | BP1255/H1 |
| H2-55 | H2-64173 | H2-55W | BP1255/H2 |
| H3-55 | H3-64151 | H3-55W | BP1255/H3 |
| H3-100 | H3-64153 | 12455 | BP1210/H3 |
| H4-60/55 | H4-64193 | 12342 | BP1260/H4 |
| H4-75/70 | H4-64196 | 13342 | BP2475/H4 |
| H7-55 | H7-64210 | H7-55W | BP1255/H7 |
| H8-35 | H8-35W | H8-35W | BP1235/H8 |
| H9-65 | H9-65W | H9-65W | BP1265/H9 |
| H11-55 | H11-55W | H11-55W | BP1255/H11 |
| P21W | 7506 | 12498 | 17635 |
| P21WLL | 7506 | LL12498LL | |
| P21/4W | 7225 | 12594 | 17881 |
| P21/5W | 7528 | 12499 | 17916 |
| P21/5W LL | 7528LL | - | - |
| PC168 | - | PC168 | - |
| PC194 | - | PC194 | PC194 |
| PY21W | 7507A | 12496 | 17638NA |
| R5W | 5007 | 12821 | 17171 |
| R5WLL | 5007LL | - | - |
| R10W | 5008 | 12814 | 17311 |
| T4W | 3893 | 12929 | 17131 |
| W3W | 2821 | 12256 | 17097 |
| W5W | 2825 | 12961 | 17177 |

Lamp Locator

The lamps listed here are not to scale. To determine the diameter of a bulb in inches, multiply the bulb number by one-eighth. For example T-2 means approximately 2/8" or 1/4" diameter.

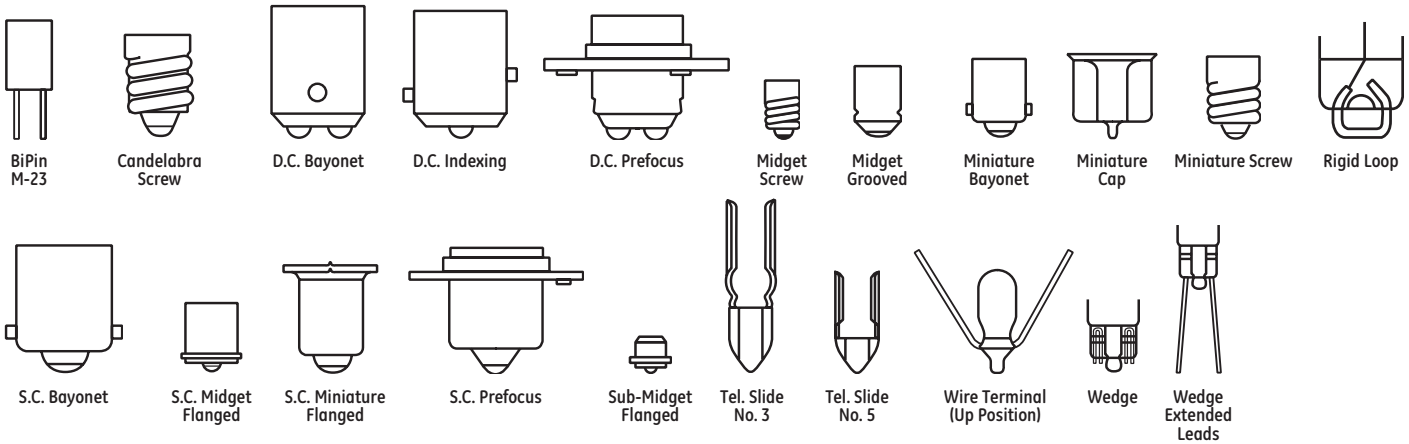


Miniature, Sealed Beam and Automotive Lamps

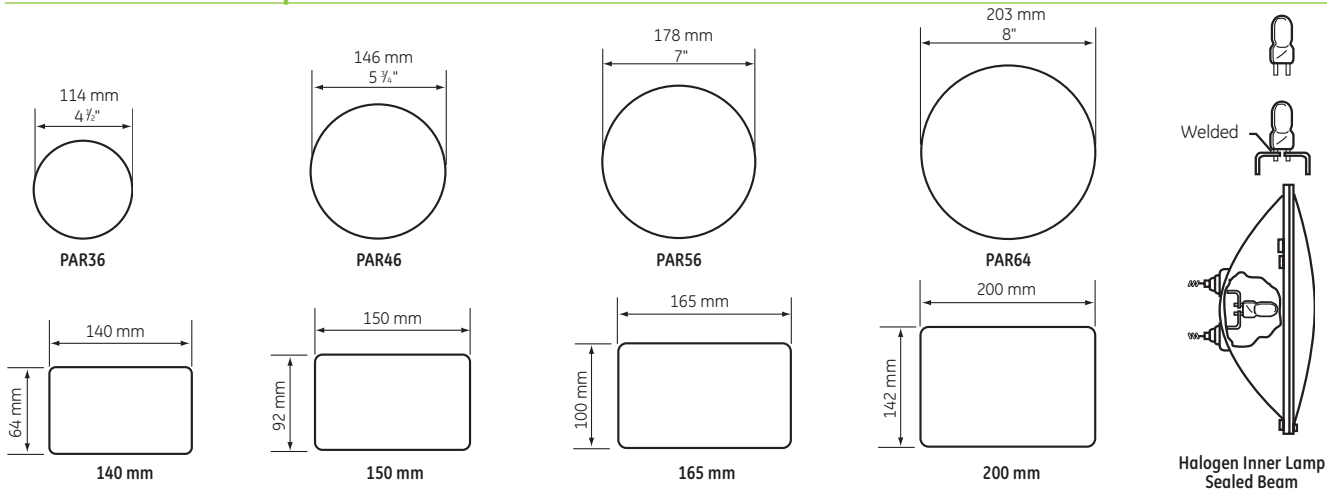
Miniature Bases

Bases provide electrical contact to the lamp and, in most cases, also support the lamp in the fixture. For miniature and subminiature lamps, bayonet or wedge base types are generally preferred over screw types when vibration is present.

In addition, wedge bases reduce socket size and complexity. Flanged or collared types are usually associated with requirements for filament location.

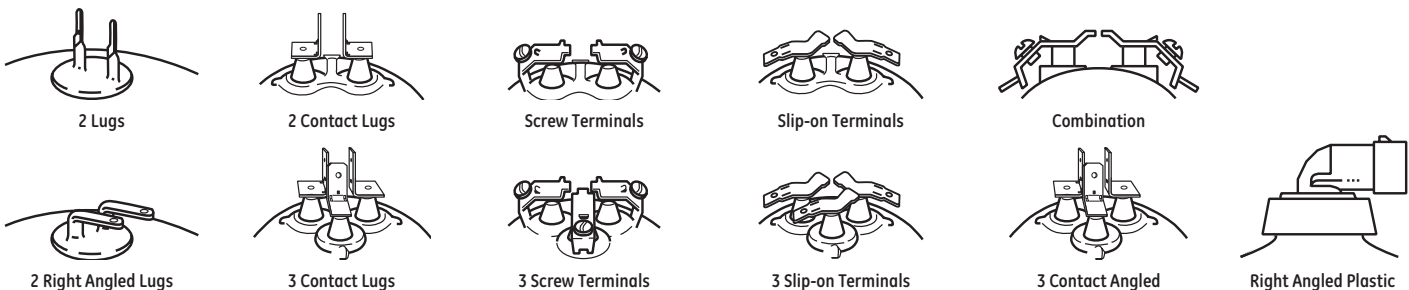


Sealed Beam Lamps



Sealed Beam Bases

Bases provide electrical contact to the lamp. The most common bases for sealed beam lamps are the screw terminal and contact lug types. Other types are also available, as illustrated.



Introduction

GE Miniature and Sealed Beam Product Ordering Information

GE Miniature and Sealed Beam Lamps are designed for those applications requiring specific bulb size, base, and voltage. These lamps are operated on vehicles (cars, trucks, boats, aircraft, tractors) or in special applications utilizing low voltage sources. Most lamps are designated by common ANSI (American National Standards Institute) lamp numbers and lamps in this section are arranged in numerical order. To assist you in identifying lamps, drawings (not to scale) are provided, along with descriptions of bulb and base sizes.

Specific market segments covered in this section are products used in:

| | | |
|-------------|-----------------------------|---------------------|
| Aircraft | Emergency Building Lighting | Marine |
| Automotive | Flashlight/Hand Lanterns | Medical/Instruments |
| Agriculture | Garden/Outdoor | Telephone |
| CIM/Tractor | Indicator | Toys/Entertainment |

For additional specifications refer to the Automotive Lamp Catalog obtained through your GE Sales Office. Automotive Selection Guide also available.

Finding and Ordering a Lamp

Most Miniature Lamps have a number on the base or bulb. Generally it will match the lamp number in this catalog, which is sorted in numeric order (prefixes last). The catalog is divided into Miniature and Sealed Beam sections. Sealed Beam lamps start on page 9-14. Often the first prefix is another lamp manufacturer's identification and can be ignored. You can verify the lamp using the drawings provided. Order codes for Blister, Unit, and Bulk Pack for OEM's are provided.

Formulas

The following are commonly used formulas to assist any calculations you may need. For further information, contact your GE Lamp Representative.

- Watts = Volts x Amps Candlepower
- Lumens = 12.57 x Mean Spherical
- Kelvin = Celsius + 273
- Footcandles = Candlepower/Distance squared (miniature lamps only)
- Hot Resistance (Ohms) = Volts/Amps

Abbreviations

The abbreviations used in this catalog include:

| | | | |
|--------|---|-------|--|
| A | Amperes | C.P. | Candlepower |
| ANSI | American National Standards Institute | Cand. | Candelabra |
| Bay. | Bayonet | PAR | Parabolic Aluminized Reflector |
| D.C. | Double Contact | Pf. | Prefocus |
| ECE | European Common Market (European Motor Vehicle Standards) | SAE | Society of Automotive Engineers (US Motor Vehicle Standards) |
| Flg. | Flanged | Sc. | Screw |
| HID | High Intensity Discharge | S.C. | Single Contact |
| LCL | Light Center Length | Spec. | Special |
| Min. | Miniature | Tel. | Telephone |
| MOL | Maximum Overall Length | Term. | Terminals |
| MSCP | Mean Spherical Candlepower | V | Volts |
| Nom. | Nominal | W | Watts |
| C.I.M. | Construction & Industrial Machinery | | |

GE Miniature Lamp Prefixes

| | | | |
|----|---|--------|----------------------|
| DE | Double-Ended | Q | Quartz Halogen |
| H | Halogen | W,T,R, | European Designation |
| K | Krypton Gas | C,P | |
| PC | Printed Circuit Application | D2 | Discharge |
| PR | Prefocus Base (e.g., "Flashlight Lamp") | | |

GE Miniature Lamp Suffixes

| | | | |
|------|---|----|--|
| A | Amber | TY | Letters after a quartz halogen lamp mean a deviation from the standard lamp - usually refers to the electrical terminals |
| AF | All Frost (on outside) | WW | Warm White (aircraft lighting) |
| AS15 | Ages and Selected to 15% (for candlepower) | X | Indicates some arbitrary deviation from the normal product |
| B | Blue | Y | Yellow |
| CW | Cool White (aircraft lighting) | -1 | Slip-on terminals |
| E-1 | Different lead wire material (NI plated) | -2 | Represents various deviations |
| G | Green | -3 | Represents deviations (e.g. combination terminal) |
| HD | Heavy Duty | W | European Designation (Watts) |
| HO | High Output | | |
| LL | Long Life | | |
| NH | Nighthawk™ | | |
| NHS | Nighthawk™ Sport | | |
| NA | Natural Amber (automotive lighting) | | |
| PSB | Pilot Indicator/Short Base | | |
| R | Red | | |
| SB | Silver Bowl (all or some portion of bulb is silver). Also blue halogen. | | |

Miniature, Sealed Beam and Automotive Lamps

Headings in this catalog section

The following terms and descriptions can help you when checking Halogen lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families,

lamps are listed by wattage. In each of these groups, lamps are listed alphabetically by bulb shape.

| | | | | | | | | |
|--|---|--|---|--|--|---|---|--|
| GE Lamp No.: In nearly all cases lamps are marked with a General Electric Trade Number recorded with the ANSI. See glossary of prefixes and suffixes on page 8-21. | Primary Application: Current uses of the lamp in general. Lamps are used in other applications than listed. | MSCP/MBCP: Approximate output expressed as initial mean spherical candlepower (see lumen conversion). For Sealed Beam MBCP is the maximum intensity of the beam in candelas, generally in the beam's center, and spread is beam size expressed in degrees. | Amps or Watts: Energy used expressed as amperes (A) or watts (W) at design voltage. | Bulb: The prefix letter describes the shape and the number is the approximate bulb diameter. | Filament Design: C = coiled, CC = coiled coil, -6 = horizontal, -8 = vertical to base. See Miniature and Sealed Beam Catalog for all variations. | MOL (in): In inches from the top of the bulb to the bottom of the base. | Rated Life (hrs): Lamp burning hours to medium life expectancy. | Footnotes, Warning and Caution Notices: See page 8-34 for explanation. |
| Order Code: Use this code when ordering to ensure that you receive the exact product you require. | Case Qty: Quantity of lamps per case if blister pack (BP), unit, or bulk (OEM's).* | Volts: Voltage at which the lamp is designed to provide the amperes, candlepower, and laboratory life characteristics. | | Base: Base types are depicted on the previous pages for both Miniature and Sealed Beam. | LCL (in): Distance in inches between base reference plane and filament center. | | | |

| Order Code | | | Case Qty | | | GE Lamp No. | Primary Application | Volts | Amps (A) or Watts (W) | MSCP | Bulb | Base | Filament | LCL (in) | MOL (in) | Rated Life (hrs) | Footnotes, Warning and Caution Notices |
|------------|-------|------|----------|------|------|-------------|---------------------|-------|-----------------------|------|--------|-------------------|----------|----------|----------|------------------|--|
| Blister | Unit | Bulk | BP | Unit | Bulk | | | | | | | | | | | | |
| 12325 | 17853 | | 48 | 50 | | 24 | Auto Sidemarker | 14.0 | .24A | 2.0 | T2 3/4 | Wedge (W2.1x9.5d) | C-2V | 0.46 | 0.91 | 1500 | |

T-2 is Tubular approximately 2/8" in diameter. Sealed Beam bulb sizes are also in eighths of an inch if round (PAR). PAR36 is 36/8" or 4-1/2" in diameter. If the Sealed Beam is rectangular in shape the longest side is measured in millimeters. A 165mm Sealed Beam measures 6-1/2" (165mm) across the top.

T 2-3/4

Identifies the shape (S= Pear, T=Tubular, G=Globe, R=Reflector)

Identifies the approximate bulb diameter in eighths of an inch.

*Miniature Incandescent BP is 2 lamps, Miniature Halogen BP is 1 lamp, selected miniature headlamps available in 2 pack BP; PC not shown.

Miniature Lamps

| Order Code | | | Case Qty | | | GE Lamp No. | Primary Application | Volts | Amps (A) or Watts (W) | MSCP | Bulb | Base | Filament | LCL (in) | MOL (in) | Rated Life (hrs) | Footnotes, Warning and Caution Notices |
|------------|-------|-------|----------|------|------|-------------|---------------------|-------|-----------------------|------|--------|--------------------------------|----------|----------|----------|------------------|--|
| Blister | Unit | Bulk | BP | Unit | Bulk | | | | | | | | | | | | |
| 12325 | 17853 | | 48 | 50 | | 24 | Auto Sidemarker | 14.0 | .24A | 2.0 | T2 3/4 | Wedge (W2.1x9.5d) | C-2V | 0.46 | 0.91 | 1500 | |
| 12316 | | | 48 | | | 24NA | Auto Sidemarker | 14.0 | .24A | 1.5 | T2 3/4 | Wedge (W2.1x9.5d) | C-2V | 0.46 | 0.91 | 1500 | |
| 26480 | 39220 | 17460 | 48 | 50 | 4000 | 37 | Auto | 14.0 | .09A | 0.5 | T1 3/4 | Wedge (W2.1x9.5d) | C-2F | 0.40 | 0.80 | 2500 | |
| | 25450 | | | 50 | | 44 | Indicator | 6.3 | .25A | 0.9 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2R | 0.78 | 1.19 | 3000 | |
| | 25485 | | | 50 | | 47 | Indicator | 6.3 | .15A | 0.5 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2R | 0.78 | 1.19 | 3000 | |
| | 25550 | 25552 | | 50 | 4000 | 53 | Auto and Indicator | 14.4 | .12A | 1.0 | G3 1/2 | Miniature Bayonet (Ba9s) | C-2V | 0.50 | 0.94 | 1000 | |
| 23218 | 25591 | | 48 | 50 | | 57 | Auto and Instrument | 14.0 | .24A | 2.0 | G4 1/2 | Miniature Bayonet (Ba9s) | C-2V | 0.56 | 1.07 | 500 | |
| 12324 | 25652 | 25654 | 48 | 50 | 1000 | 67 | Auto | 13.5 | .59A | 4.0 | G6 | Single Contact Bayonet (BA15s) | C-2R | 0.81 | 1.44 | 5000 | 4 |
| 71895 | | | 48 | | | 67NH | Auto, Nighthawk™ | 13.5 | .59A | 4.0 | G6 | Single Contact Bayonet (BA15s) | C-2R | 0.81 | 1.44 | | |
| | 25692 | | | 50 | | 68 | Auto and Marine | 13.5 | .59A | 4.0 | G6 | Double Contact Bayonet (BA15d) | C-2R | 0.81 | 1.44 | 5000 | 4 |
| 23015 | | 28770 | 48 | | 4000 | 73 | Indicator | 14.0 | .08A | 0.3 | T1 3/4 | Wedge (W2.1x9.5d) | C-2F | 0.40 | 0.80 | 15000 | 79 |
| 21029 | 38457 | 38458 | 48 | 50 | 4000 | 74 | Auto | 14.0 | .10A | 0.7 | T1 3/4 | Wedge (W2.1x9.5d) | C-2F | 0.40 | 0.80 | 1000 | |
| | 40969 | | | 50 | | 85 | Indicator | 28.0 | .04A | 0.3 | T1 3/4 | Wedge (W2.1x9.5d) | C-2F | 0.40 | 0.80 | 7000 | 79 |
| | 25772 | | | 10 | | 88 | Indicator | 6.8 | 1.91A | 15.0 | S8 | Double Contact Bayonet (BA15d) | C-6 | 1.12 | 2.00 | 300 | |
| 12363 | 25778 | | 48 | 50 | | 89 | Auto | 13.0 | .58A | 6.0 | G6 | Single Contact Bayonet (BA15s) | C-2R | 0.75 | 1.44 | 750 | |
| 47797 | | | 48 | | | 89 LL | Auto, Long Life | 13.0 | .58A | 6.0 | G6 | Single Contact Bayonet (BA15s) | C-2R | 0.75 | 1.44 | 1500 | |
| 12364 | 25794 | 25796 | 48 | 50 | 1000 | 90 | Auto and Marine | 13.0 | .58A | 6.0 | G6 | Double Contact Bayonet (BA15d) | C-2R | 0.75 | 1.44 | 750 | |
| 23217 | 25811 | 17461 | 48 | 50 | 500 | 93 | Auto | 12.8 | 1.04A | 15.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.12 | 2.00 | 700 | |
| 71904 | | | 48 | | | 93NH | Auto, Nighthawk™ | 12.8 | 1.04A | 15.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.12 | 2.00 | | |
| 00764 | 25829 | | 48 | 50 | | 94 | Auto and Marine | 12.8 | 1.04A | 15.0 | S8 | Double Contact Bayonet (BA15d) | C-6 | 1.12 | 2.00 | 700 | |
| 12322 | 25836 | 25838 | 48 | 50 | 1000 | 97 | Auto | 13.5 | .69A | 4.0 | G6 | Single Contact Bayonet (BA15s) | C-2V | 0.81 | 1.44 | 5000 | 4 |
| | 16287 | | | 50 | | 98 | Auto | 13.0 | .62A | 6.0 | G6 | Single Contact Bayonet (BA15s) | C-2V | 0.75 | 1.44 | 800 | |
| | 36147 | | | 50 | | 105 | Auto | 12.8 | 1.0A | 12.0 | B6 | Single Contact Bayonet (BA15s) | C-6 | 1.06 | 1.75 | 500 | |
| | 25931 | | | 50 | | 158 | Auto Instrument | 14.0 | .24A | 2.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2V | 0.56 | 1.06 | 500 | |
| 23016 | 25956 | 16489 | 48 | 50 | 4000 | 161 | Auto Instrument | 14.0 | .19A | 1.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | 4000 | |
| 71902 | | | 48 | | | 161 NH | Auto, Nighthawk™ | 14.0 | .19A | 1.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | | |
| 12327 | 25962 | 28757 | 48 | 50 | 4000 | 168 | Auto Instrument | 14.0 | .35A | 3.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | 1500 | |
| 47827 | | | 48 | | | 168 LL | Auto, Long Life | 14.0 | .35A | 3.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | 3000 | |
| 89239 | | | 48 | | | 168 NH | Auto, Nighthawk™ | 14.0 | .35A | 3.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | | |
| | 19553 | 19852 | | 50 | 4000 | 193 | Truck | 14.0 | .33A | 2.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | 15000 | |
| | | 11807 | | | 4000 | 193E1 | Truck Clearance | 14.0 | .33A | 2.0 | T3 1/4 | Wedge, Wire Terminal (122) | C-2F | | 1.06 | 15000 | 122 |
| 12328 | 25965 | 28758 | 48 | 50 | 4000 | 194 | Auto | 14.0 | .27A | 2.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | 2500 | |
| 89240 | | | 48 | | | 194 NH | Auto, Nighthawk™ | 14.0 | .27A | 2.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | | |
| 12357 | | | 48 | | | 194G | Auto, Green | 14.0 | .27A | | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | | 1.06 | 2500 | 132 |

Miniature Lamps (continued)

| Order Code | | | Case Qty | | | GE Lamp No. | Primary Application | Volts | Amps (A) or Watts (W) | MSCP | Bulb | Base | Filament | LCL (in) | MOL (in) | Rated Life (hrs) | Footnotes, Warning and Caution Notices |
|------------|-------|-------|----------|------|------|-------------|-------------------------|-----------|-----------------------|----------|--------|--------------------------------|----------|----------|----------|------------------|--|
| Blister | Unit | Bulk | BP | Unit | Bulk | | | | | | | | | | | | |
| 12319 | 44859 | 27470 | 48 | 50 | 4000 | 194NA | Auto Sidemarker | 14.0 | .27A | 1.5 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | | 1.06 | 2500 | |
| 47794 | | | 48 | | | 194NA LL | Auto Amber, Long Life | 14.0 | .27A | 1.5 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | | 1.06 | 5000 | |
| 71894 | | | 48 | | | 194NA LL NH | Auto, Amber, Nighthawk™ | 14.0 | .27A | 1.5 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | | 1.06 | | |
| 12355 | | | 48 | | | 194R | Auto, Red | 14.0 | .27A | 2.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | | 1.06 | 2500 | 132 |
| 25832 | | | 48 | | | 194LL | Auto, Long Life | 14.0 | .27A | 2.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | 12000 | |
| 00760 | 37983 | 37984 | 48 | 50 | 500 | 198 | Truck Stop, Signal | 12.8/14.0 | 2.25/59A | 32.0/3.0 | S8 | Double Contact Index (BA15d) | C-6/C-6 | 1.25 | 2.00 | 1200/1500 | 110,147 |
| | 37985 | 37986 | | 50 | 500 | 199 | Truck Stop | 12.8 | 2.25A | 32.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 1200 | 110 |
| | 25988 | | | 50 | | 210 | Instrument | 6.5 | 1.78A | 15.0 | B6 | Double Contact Bayonet (BA15d) | C-6 | 1.06 | 1.75 | 100 | |
| 12673 | 39224 | 11803 | 48 | 50 | 2520 | 211-2 | Auto | 12.8 | .97A | 12.0 | T3 | Miniature Cap | C-8 | | 1.72 | 1000 | |
| 71900 | | | 48 | | | 211-2 NH | Auto, Nighthawk™ | 12.8 | .97A | 12.0 | T3 | Miniature Cap | C-8 | | 1.72 | | |
| 23220 | | | 48 | | | 212-2 | Auto | 13.5 | .74A | 6.0 | T3 | Miniature Cap | C-8 | | 1.72 | 2000 | 4 |
| | 39356 | | | 50 | | 214-2 | Auto | 13.5 | .52A | 4.0 | T3 | Miniature Cap | C-8 | | 1.72 | 1000 | 4 |
| | 44719 | | | 50 | | 265 | Indicator | 28.0 | .08A | 0.8 | G3 1/2 | Miniature Bayonet (Ba9s) | C-2F | 0.50 | 0.94 | 5000 | |
| | 81642 | | | 50 | | 301 | Aircraft | 28.0 | .17A | 3.0 | G-5 | Single Contact Bayonet (BA15s) | C-2F | 0.69 | 1.25 | 500 | |
| | 81641 | | | 50 | | 303 | Aircraft | 28.0 | .30A | 6.0 | G-6 | Single Contact Bayonet (BA15s) | C-2F | 0.75 | 1.44 | 500 | |
| | 81643 | | | 50 | | 304 | Aircraft | 28.0 | .30A | 6.0 | G-6 | Double Contact Bayonet (BA15d) | C-2F | 0.75 | 1.44 | 500 | |
| | 26143 | | | 50 | | 305 | Aircraft | 28.0 | .51A | 15.0 | S8 | Single Contact Bayonet (BA15s) | C-2V | 1.12 | 2.00 | 300 | |
| | 26145 | | | 50 | | 305AF | Aircraft, Frosted | 28.0 | .51A | | S8 | Single Contact Bayonet (BA15s) | C-2V | | 2.00 | 300 | |
| | 26152 | | | 50 | | 306 | Aircraft | 28.0 | .51A | 15.0 | S8 | Double Contact Bayonet (BA15d) | C-2V | 1.12 | 2.00 | 300 | |
| | 81644 | | | 50 | | 307 | Aircraft | 28.0 | .67A | 21.0 | S-8 | Single Contact Bayonet (BA15s) | C-2V | 1.12 | 2.00 | 300 | |
| | 26161 | | | 50 | | 307AF | Aircraft, Frosted | 28.0 | .67A | 21.0 | S8 | Single Contact Bayonet (BA15s) | C-2V | | 2.00 | 300 | |
| | 81645 | | | 50 | | 308 | Aircraft | 28.0 | .67A | 21.0 | S8 | Double Contact Bayonet (BA15d) | C-2V | 1.12 | 2.00 | 300 | |
| | 81646 | | | 50 | | 308AF | Aircraft, Frosted | 28.0 | .67A | | S8 | Double Contact Bayonet (BA15d) | C-2V | | 2.00 | 300 | |
| | 26175 | | | 10 | | 309 | Aircraft, Frosted | 28.0 | .90A | 32.0 | S11 | Single Contact Bayonet (BA15s) | C-2V | 1.25 | 2.38 | 300 | |
| | 81647 | | | 10 | | 311 | Aircraft | 28.0 | 1.29A | 50.0 | S11 | Single Contact Bayonet (BA15s) | C-2V | 1.25 | 2.38 | 300 | |
| | 81649 | 81650 | | 50 | 4000 | 313 | Aircraft | 28.0 | .17A | 3.5 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 500 | |
| | 81651 | | | 50 | | 315 | Aircraft | 28.0 | .90A | 32.0 | S8 | Single Contact Bayonet (BA15s) | C-2V | 1.12 | 2.00 | 300 | |
| | 81652 | | | 50 | | 316 | Aircraft | 6.0 | .70A | 3.4 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2R | 0.62 | 1.19 | 500 | |
| | 80862 | | | 10 | | 317 | Aircraft | 28.0 | 3.50W | 2.6 | T3 | 2-Pin (G4) | C-2R | 0.78 | 1.16 | 1000 | |
| | 28519 | | | 50 | | 327 | Aircraft | 28.0 | .04A | 0.3 | T1 3/4 | Single Contact Midget Flanged | C-2F | 0.38 | 0.63 | 4000 | 79 |
| | 28546 | | | 50 | | 328 | Aircraft | 6.0 | .20A | 0.3 | T1 3/4 | Single Contact Midget Flanged | C-2R | 0.38 | 0.63 | 1000 | 10 |
| | 28567 | | | 50 | | 330 | Aircraft | 14.0 | .08A | 0.5 | T1 3/4 | Single Contact Midget Flanged | C-2F | 0.38 | 0.63 | 1500 | |
| | 28588 | | | 50 | | 334 | Aircraft | 28.0 | .04A | 0.3 | T1 3/4 | Midget Grooved | C-2F | 0.38 | 0.63 | 4000 | 79 |
| | 26255 | | | 50 | | 356 | Aircraft | 28.0 | .17A | 3.5 | G3 1/2 | Miniature Bayonet (Ba9s) | C-2F | 0.50 | 0.94 | 500 | 14 |
| | | 87381 | | | 1000 | 380 | Aircraft | 6.3 | .04A | 0.0 | T1 3/4 | Single Contact Midget Flanged | C-2V | | 0.64 | 50000 | 79 |
| | 28653 | | | 50 | | 381 | Indicator | 6.3 | .20A | 0.4 | T1 3/4 | Single Contact Midget Flanged | C-2F | 0.38 | 0.63 | 20000 | 79 |
| | 28657 | | | 50 | | 382 | Indicator | 14.0 | .08A | 0.3 | T1 3/4 | Single Contact Midget Flanged | C-2F | 0.38 | 0.63 | 40000 | 79 |
| | 28660 | | | 50 | | 385 | Indicator | 28.0 | .04A | 0.2 | T1 3/4 | Single Contact Midget Flanged | C-2F | 0.44 | 0.81 | 10000 | 78,79 |
| | 28662 | | | 50 | | 386 | Indicator | 14.0 | .08A | 0.3 | T1 3/4 | Midget Grooved | C-2F | 0.38 | 0.63 | 40000 | 79 |
| | 28664 | 25090 | | 50 | 1000 | 387 | Indicator | 28.0 | .04A | 0.3 | T1 3/4 | Single Contact Midget Flanged | C-2F | 0.38 | 0.63 | 7000 | |
| | 28672 | | | 50 | | 388 | Indicator | 28.0 | .04A | 0.3 | T1 3/4 | Midget Grooved | C-2F | 0.38 | 0.63 | 7000 | 79 |
| | | 87398 | | | 1000 | 394 | Aircraft | 12.0 | .04A | 0.1 | T1 3/4 | Single Contact Midget Flanged | C-2F | | 0.64 | 10000 | 79 |
| | 38918 | | | 50 | | 400 | Aircraft | 28.0 | .10A | 1.6 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | 1000 | |
| | 26441 | | | 50 | | 456 | Instrument | 28.0 | .17A | 2.0 | G4 1/2 | Miniature Bayonet (Ba9s) | C-2F | 0.56 | 1.07 | 5000 | |
| | 39645 | | | 50 | | 464 | Aircraft | 28.0 | .17A | 3.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | 1500 | |
| 12358 | 39746 | 11820 | 48 | 50 | 2520 | 561 | Auto | 12.8 | .97A | 12.0 | T3 | Rigid Loop | C-8 | | 1.72 | 1000 | |
| 23019 | | | 48 | | | 562 | Auto | 13.5 | .74A | 6.0 | T3 | Rigid Loop | C-8 | | 1.72 | 2000 | 4 |
| | | 11825 | | | 1000 | 563 | Auto | 13.5 | .52A | 4.0 | T3 | Rigid Loop | C-8 | | 1.72 | 1000 | 4 |
| | 18442 | | | 50 | | 590 | Strip Lighting | 13.5 | .37A | 4.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2V | 0.50 | 1.06 | 2000 | |
| | 81653 | 81654 | | 50 | 1000 | 623 | Instrument | 28.0 | .37A | 6.0 | G-6 | Single Contact Bayonet (BA15s) | 2C-2V | 0.75 | 1.44 | 1000 | |
| 23023 | 26570 | | 48 | 50 | | 631 | Auto | 14.0 | .63A | 6.0 | G6 | Single Contact Bayonet (BA15s) | 2C-2R | 0.75 | 1.44 | 1000 | |
| | 81670 | 81671 | | 50 | 4000 | 658 | Indicator | 14.0 | .08A | 0.3 | T3 1/4 | Wedge (W2.1x9.5d) | C-2F | 0.56 | 1.06 | 15000 | 79 |
| | | 87407 | | | 1000 | 680 | Aircraft | 5.0 | .06A | 0.03 | T1 | Wire Terminals | C-2R | | 0.24 | 100000 | 79 |
| | | 87336 | | | 1000 | 683 | Aircraft | 5.0 | .06A | 0.05 | T1 | Wire Terminals | C-2R | | 0.24 | 100000 | 79 |
| | | 87321 | | | 1000 | 683AS15 | Aircraft | 5.0 | .06A | 0.05 | T1 | Wire Terminals | C-2R | | 0.24 | 100000 | 79 |
| | | 28706 | | | 1000 | 685 | Aircraft | 5.0 | .06A | 0.1 | T1 3/4 | Sub-Midget Flanged | C-2R | 0.19 | 0.38 | 40000 | 79 |
| 43132 | | | | 50 | | 705 | Aircraft | 28.0 | .51A | 15.0 | S8 | Single Contact Bayonet (BA15s) | CC-6 | 1.12 | 2.00 | 900 | |
| | | 87411 | | | 1000 | 713 | Aircraft | 5.0 | .75A | 0.09 | T1 | Wire Terminals | C-2R | | 0.24 | 100000 | 79 |
| | | 29903 | | | 1000 | 715 | Aircraft | 5.0 | .115A | 0.15 | T1 | Wire Terminals | C-2R | | 0.25 | 40000 | 79 |
| | | 29901 | | | 1000 | 715AS15 | Aircraft | 5.0 | .115A | 0.15 | T1 | Wire Terminals | C-2R | | 0.25 | 40000 | 79 |
| | | 29916 | | | 1000 | 718 | Aircraft | 5.0 | .115A | 0.15 | T1 | Sub-Midget Flanged | C-2R | | 0.36 | 40000 | 79 |
| | | 29905 | | | 1000 | 718AS15 | Aircraft | 5.0 | .115A | 0.15 | T1 | Sub-Midget Flanged | C-2R | | 0.36 | 40000 | 79 |
| | 26591 | | | 50 | | 755 | Indicator | 6.3 | .15A | 0.3 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2R | 0.78 | 1.19 | 20000 | 79 |

For the most up-to-date product information, see www.gelighting.com. All footnotes, warning and caution notices found at the end of this section (page 8-34).

Miniature, Sealed Beam and Automotive Lamps

Miniature Lamps (continued)

| Blister | Order Code | | | Case Qty | | GE Lamp No. | Primary Application | Volts | Amps (A) or Watts (W) | MSCP | Bulb | Base | Filament | LCL (in) | MOL (in) | Rated Life (hrs) | Footnotes, Warning and Caution Notices |
|---------|------------|-------|-------|----------|------|-------------|----------------------|-------|-----------------------|-------|--------|--------------------------------|----------|----------|----------|------------------|--|
| | Unit | Bulk | BP | Unit | Bulk | | | | | | | | | | | | |
| | | 26593 | | | 50 | 756 | Indicator | 14.0 | .08A | 0.3 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 15000 | 79 |
| | | 81655 | | | 50 | 757 | Indicator | 28.0 | .08A | 0.6 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 15000 | 79 |
| | | 11014 | | | 20 | 767 | Instrument | 6.0 | 2.00A | 19.0 | T2 1/4 | Miniature Bayonet (Ba9s) | C-6 | 0.56 | 1.13 | 50 | 306 |
| | | 11250 | | | 10 | 773 | Instrument | 12.0 | .67A | 10.0 | T2 3/4 | 2-Pin (G4) | C-6 | 0.77 | 1.05 | 1000 | 124,306 |
| | | 12723 | 12724 | | 10 | 774 | Emergency Lighting | 12.0 | .67A | 13.0 | T2 1/4 | 2-Pin (G4) | C-6 | 0.77 | 1.00 | 50 | 124,306 |
| | | 49718 | | | 10 | 778 | Instrument | 6.0 | 3.33A | 32.0 | T2 3/4 | 2-Pin (G4) | C-6 | 0.77 | 1.05 | 100 | 124,306 |
| | | 18344 | | | 10 | 780 | Strip Lighting | 12.0 | 10.00W | 12.0 | T2 3/4 | 2-Pin (G4) | C-6 | 0.77 | 1.05 | 2000 | 124,306 |
| | | 44840 | 44841 | | 10 | 782 | Instrument | 12.0 | 1.66A | 25.0 | T2 3/4 | 2-Pin (G4) | C-6 | 0.77 | 1.05 | 2000 | 124,306 |
| | | 44500 | 44501 | | 10 | 783 | Emergency Lighting | 12.0 | 1.00A | 22.0 | T2 1/4 | 2-Pin (G4) | C-6 | 0.77 | 1.00 | 50 | 124,306 |
| | | 43760 | 43761 | | 10 | 784 | Emergency Lighting | 6.0 | 1.00A | 9.0 | T2 1/4 | 2-Pin (G4) | C-6 | 0.77 | 1.00 | 50 | 124,306 |
| | | 43762 | 43763 | | 10 | 785 | Emergency Lighting | 6.0 | 1.33A | 13.0 | T2 1/4 | 2-Pin (G4) | C-6 | 0.77 | 1.00 | 50 | 124,306 |
| | | 43764 | 43765 | | 10 | 786 | Emergency Lighting | 6.0 | 2.00A | 19.0 | T2 1/4 | 2-Pin (G4) | C-6 | 0.77 | 1.00 | 50 | 124,306 |
| | | 43115 | 43116 | | 10 | 787 | Instrument | 6.0 | 1.67A | 16.0 | T2 1/4 | 2-Pin (G4) | C-6 | 0.77 | 1.00 | 100 | 124,306 |
| | | 43117 | 43118 | | 10 | 788 | Instrument | 6.0 | 3.33A | 32.0 | T2 1/4 | 2-Pin (G4) | C-6 | 0.77 | 1.00 | 100 | 124,306 |
| | | 43119 | | | 10 | 789 | Instrument | 12.0 | 1.17A | 22.0 | T2 3/4 | 2-Pin (G4) | C-6 | 0.77 | 1.05 | 200 | 124,306 |
| | | 43121 | | | 10 | 790 | Instrument | 14.0 | 1.79A | 42.0 | T2 3/4 | 2-Pin (G4) | C-6 | 0.77 | 1.05 | 200 | 124,306 |
| | | 43123 | 43124 | | 10 | 791 | Instrument | 14.0 | 2.50A | 61.0 | T2 3/4 | 2-Pin (G4) | C-6 | 0.77 | 1.05 | 200 | 124,306 |
| | | 20469 | | | 10 | 795 | Signal | 12.8 | 50.00W | 108.0 | T4 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.50 | 200 | 4,306 |
| | | 40848 | 14132 | | 10 | 862 | Tractor | 12.8 | 2.93A | 60.0 | T3 1/4 | Right Angle Prefocus (PGJ13) | C-6 | 1.25 | 2.68 | 1900 | 306 |
| 12320 | | 20904 | 48 | | 540 | 880 | Auto Fog | 12.8 | 2.10A | 43.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.25 | 2.68 | 300 | 17,160,306 |
| | | 27582 | | | 540 | 880 LL | Auto Fog, Long Life | 12.8 | 2.10A | 43.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.25 | 2.68 | 1000 | 17,160,306 |
| 25101 | | | 12 | | | 880 NH | Auto Fog, Nighthawk™ | 12.8 | 2.10A | 43.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.25 | 2.68 | | 17,160,306 |
| 25163 | | | 24 | | | 880 NH | Auto Fog, Nighthawk™ | 12.8 | 2.10A | 43.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.25 | 2.68 | | 17,160,306 |
| 12334 | | 20905 | 48 | | 540 | 881 | Auto Fog | 12.8 | 2.10A | 43.0 | T3 1/4 | Right Angle Prefocus (PGJ13) | C-6 | 1.25 | 2.68 | 300 | 17,160,306 |
| | | 27583 | | | 540 | 881 LL | Auto Fog, Long Life | 12.8 | 2.10A | 43.0 | T3 1/4 | Right Angle Prefocus (PGJ13) | C-6 | 1.25 | 2.68 | 1000 | 17,160,306 |
| | | 13158 | 13161 | | 10 | 882 | Auto Instrument | 12.8 | .35A | 3.8 | T2 1/4 | Printed Circuit Socket | C-6 | 0.37 | 1.18 | 2000 | 306 |
| | | 18167 | | | 10 | 882X | Auto Instrument | 12.8 | .35A | 3.8 | T2 1/4 | 2-Pin (G4) | C-6 | 0.77 | 1.00 | 2000 | 124,306 |
| 12335 | | 20907 | 48 | | 540 | 885 | Auto Fog | 12.8 | 3.90A | 100.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.25 | 2.68 | 200 | 4,306 |
| 14689 | | 20909 | 48 | | 540 | 886 | Auto Fog | 12.8 | 3.90A | 100.0 | T3 1/4 | Right Angle Prefocus (PGJ13) | C-6 | 1.25 | 2.68 | 200 | 4,306 |
| | | 25639 | | | 540 | 887 | Tractor Work Light | 12.8 | 3.90A | 95.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.25 | 2.68 | 400 | 4,306 |
| | | 25703 | | | 540 | 888 | Tractor Work Light | 12.8 | 3.90A | 95.0 | T3 1/4 | Right Angle Prefocus (PGJ13) | C-6 | 1.25 | 2.68 | 400 | 4,306 |
| 12336 | | 20910 | 48 | | 540 | 889 | Auto Signal | 12.8 | 2.10A | 43.0 | T3 1/4 | Right Angle Prefocus (PGJ13) | C-6 | 1.00 | 2.68 | 300 | 306 |
| 12337 | | 20911 | 48 | | 540 | 890 | Auto Signal | 12.8 | 2.10A | 43.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.00 | 2.68 | 300 | 306 |
| 12308 | 15246 | 15248 | 48 | 10 | 500 | 891 | Auto Stop | 12.8 | .63A | 11.0 | T2 1/4 | 2-Pin (G4) | C-6 | 0.77 | 1.00 | 500 | 124,306 |
| 12338 | | 20913 | 48 | | 540 | 893 | Auto Fog | 12.8 | 2.93A | 75.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.25 | 2.68 | 200 | 4,17,160,306 |
| | | 89115 | | | 540 | 893CL | Tractor | 12.8 | 2.93A | 75.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.25 | 2.68 | 200 | 4,160,306 |
| 25172 | | | 24 | | | 893 NH | Auto Fog, Nighthawk™ | 12.8 | 2.93A | 75.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.25 | 2.68 | | 4,17,160,306 |
| 25102 | | | 12 | | | 893 NH | Auto Fog, Nighthawk™ | 12.8 | 2.93A | 75.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.25 | 2.68 | | 4,17,160,306 |
| 22112 | 20238 | 18455 | 48 | 10 | 540 | 894 | Tractor | 12.8 | 2.93A | 75.0 | T3 1/4 | Right Angle Prefocus (PGJ13) | C-6 | 1.25 | 2.68 | 200 | 4,306 |
| 22113 | | 20914 | 48 | | 540 | 896 | Auto Fog | 12.8 | 2.93A | 75.0 | T3 1/4 | Right Angle Prefocus (PGJ13) | C-6 | 1.25 | 2.68 | 200 | 4,17,160,306 |
| 98093 | | 12271 | 48 | | 540 | 898 | Auto Fog | 12.8 | 2.93A | 60.0 | T3 1/4 | Right Angle Prefocus (PGJ13) | C-6 | 1.25 | 2.68 | 1900 | 4,17,160,306 |
| 22111 | | 12272 | 48 | | 540 | 899 | Auto Fog | 12.8 | 2.93A | 60.0 | T3 1/4 | Axial Plastic (PG13) | C-6 | 1.25 | 2.68 | 1900 | 4,17,160,306 |
| 14273 | | | 48 | | | 901 | Garden | 12.8 | .31A | 2.9 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 500 | |
| 23024 | 40462 | 40463 | 48 | 50 | 1000 | 904 | Auto | 13.5 | .69A | 4.0 | T5 | Wedge (W2.1x9.5d) | C-2F | 0.81 | 1.49 | 5000 | 4 |
| 12366 | 40289 | 28763 | 48 | 50 | 1000 | 906 | Auto | 13.0 | .69A | 6.0 | T5 | Wedge (W2.1x9.5d) | C-2F | 0.81 | 1.49 | 1000 | |
| | 44754 | 16858 | | 50 | 1000 | 908 | Emergency Lighting | 6.0 | 1.50A | 12.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 50 | |
| | 44756 | 16859 | | 50 | 1000 | 909 | Emergency Lighting | 6.0 | .62A | 3.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 50 | |
| 12365 | 40504 | 28767 | 48 | 50 | 1000 | 912 | Auto | 12.8 | 1.00A | 12.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 1000 | |
| 67903 | | | 48 | | | 912 LL | Auto, Long Life | 12.8 | 1.00A | 12 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 2000 | |
| 89242 | | | 48 | | | 912 NH | Auto, Nighthawk™ | 12.8 | 1.00A | 12.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | | |
| | 44769 | | | 50 | | 914 | Emergency Lighting | 4.0 | .90A | 3.5 | T5 | Wedge (W2.1x9.5d) | C-6 | 0.75 | 1.49 | 50 | |
| | 44771 | 44772 | | 50 | 1000 | 915 | Emergency Lighting | 12.0 | .75A | 11.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 50 | |
| 23025 | | 28768 | 48 | | 1000 | 916 | Auto | 13.5 | .54A | 2.0 | T5 | Wedge (W2.1x9.5d) | C-2F | 0.81 | 1.49 | 10000 | |
| | 21860 | | | 50 | | 916NA | Auto, Amber | 13.0 | .54A | 1.5 | T5 | Wedge (W2.1x9.5d) | C-2F | 0.81 | 1.49 | 10000 | |
| 40179 | 17837 | | 30 | 50 | | 918 | Garden | 12.8 | .56A | 6.5 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 500 | |
| 12307 | 43374 | 45752 | 48 | 50 | 1000 | 921 | Auto | 12.8 | 1.40A | 21.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 500 | |
| 67907 | | | 48 | | | 921LL | Auto, Long Life | 12.8 | 1.40A | 21 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 1000 | |
| 89238 | | | 48 | | | 921 NH | Auto, Nighthawk™ | 12.8 | 1.40A | 21.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | | |
| 85938 | | | 25 | | | 921NE | Undercabinet | 12.8 | 18.00W | 21.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 10000 | 121 |
| 23027 | 13274 | 13275 | 48 | 50 | 1000 | 922 | Auto | 12.8 | .98A | 15.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 200 | |
| 71903 | | | 48 | | | 922 NH | Auto, Nighthawk™ | 12.8 | .98A | 15.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | | |

Miniature Lamps (continued)

| Blister | Order Code | | | Case Qty | | GE Lamp No. | Primary Application | Volts | Amps (A) or Watts (W) | MSCP | Bulb | Base | Filament | LCL (in) | MOL (in) | Rated Life (hrs) | Footnotes, Warning and Caution Notices | |
|---------|------------|-------|----|----------|------|-------------|---------------------|----------------------------|-----------------------|-----------|----------|--------------------------------|--------------------------------|-----------|----------|------------------|--|----------|
| | Unit | Bulk | BP | Unit | Bulk | | | | | | | | | | | | | |
| 40180 | | | 30 | | | 923 | Garden | 12.8 | .91A | 12.5 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 500 | | |
| | 13483 | | | 50 | | 926 | Emergency Lighting | 4.0 | 1.80A | 7.5 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 50 | | |
| | 13485 | 13486 | | 50 | 1000 | 927 | Emergency Lighting | 6.0 | 1.2A | 8.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 50 | | |
| | 16975 | 15285 | | 50 | 1000 | 939 | Emergency Lighting | 6.0 | .9A | 5.4 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 50 | | |
| | | 23684 | | | 2500 | 963 | Emergency Lighting | 6.0 | 2.00A | 15.0 | T5 | Wedge (W2.1x9.5d) | C-2R | 0.81 | 1.49 | 50 | | |
| 12367 | 26709 | | | 48 | 50 | 1003 | Auto | 12.8 | .94A | 15.0 | B6 | Single Contact Bayonet (BA15s) | C-6 | 1.06 | 1.75 | 200 | | |
| 47800 | | | | 48 | | 1003 LL | Auto, Long Life | 12.8 | .94A | 15.0 | B6 | Single Contact Bayonet (BA15s) | C-6 | 1.06 | 1.75 | 400 | | |
| 71899 | | | | 48 | | 1003 NH | Auto, Nighthawk™ | 12.8 | .94A | 15.0 | B6 | Single Contact Bayonet (BA15s) | C-6 | 1.06 | 1.75 | | | |
| 12373 | 26726 | | | 48 | 50 | 1004 | Auto | 12.8 | .94A | 15.0 | B6 | Double Contact Bayonet (BA15d) | C-6 | 1.06 | 1.75 | 200 | | |
| | 26775 | | | | 50 | 1034 | Auto Stop, Tail | 12.8/14 | 1.80/.59A | 32.0/3.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | 200/5000 | | |
| 40134 | 26838 | | | 48 | 50 | 1073 | Auto Signal | 12.8 | 1.8A | 32.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 200 | | |
| 71905 | | | | 48 | | 1073NH | Auto, Nighthawk™ | 12.8 | 1.8A | 32.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | | | |
| 00765 | 26854 | | | 48 | 50 | 1076 | Auto | 12.8 | 1.8A | 32.0 | S8 | Double Contact Bayonet (BA15d) | C-6 | 1.25 | 2.00 | 200 | | |
| | 26885 | | | | 10 | 1133 | Instrument | 6.2 | 3.91A | 32.0 | RP11 | Single Contact Bayonet (BA15s) | C-2R | 1.25 | 2.25 | 200 | 305 | |
| 12346 | 26903 | 26905 | | 48 | 50 | 500 | 1141 | Auto | 12.8 | 1.44A | 21.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 1000 | |
| 47802 | | | | 48 | | | 1141 LL | Auto, Long Life | 12.8 | 1.44A | 21.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 2000 | |
| 71897 | | | | 48 | | | 1141 NH | Auto, Nighthawk™ | 12.8 | 1.44A | 21.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | | |
| 00759 | 26917 | 26919 | | 48 | 50 | 500 | 1142 | Auto | 12.8 | 1.44A | 21.0 | S8 | Double Contact Bayonet (BA15d) | C-6 | 1.25 | 2.00 | 1000 | |
| 12297 | | | | 48 | | | 1154 | Auto Stop, Tail | 6.4/7.0 | 2.63/.75A | 21.0/3.0 | S8 | Double Contact Index (BAY15d) | C-6 | 1.25 | 2.00 | 200/1000 | |
| 71889 | | | | 48 | | | 1154 NH | Auto, Nighthawk™ | 6.4/7.0 | 2.63/.75A | 21.0/3.0 | S8 | Double Contact Index (BAY15d) | C-6 | 1.25 | 2.00 | | |
| | 26955 | | | | 50 | | 1155 | Truck Marker | 13.5 | .59A | 4.0 | G6 | Single Contact Bayonet (BA15s) | 2C-2R | 0.81 | 1.44 | 5000 | 4 |
| 12344 | 26960 | 26962 | | 48 | 50 | 500 | 1156 | Auto, Stop | 12.8 | 2.10A | 32.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 1200 | |
| 23334 | | 11666 | | 48 | | 1000 | 1156 LL | Auto, Stop, Long Life | 12.8 | 2.10A | 32.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 2400 | |
| 21028 | 20248 | | | 48 | 50 | | 1156NA | Auto, Amber | 12.8 | 2.10A | 24.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 1200 | |
| 89241 | | | | 48 | | | 1156 NH | Auto, Nighthawk™ | 12.8 | 2.10A | 32.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | | |
| 12294 | 26969 | 26971 | | 48 | 50 | 500 | 1157 | Auto Stop, Tail | 12.8/14 | 2.10/.59A | 32.0/3.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | 1200/5000 | |
| 23337 | | | | 48 | | | 1157 LL | Auto Stop, Tail, Long Life | 12.8/14 | 2.10/.59A | 32.0/3.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | 2400/10000 | |
| 89236 | | | | 48 | | | 1157 NH | Auto, Nighthawk™ | 12.8/14 | 2.10/.59A | 32.0/3.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | | |
| 12310 | 26975 | 26976 | | 48 | 50 | 500 | 1157NA | Auto, Amber | 12.8/14 | 2.10/.59A | 24.0/2.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | 1200/5000 | |
| 47798 | | | | 48 | | | 1157NA LL | Auto, Amber, Long Life | 12.8/14 | 2.10/.59A | 24.0/2.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | 2400/10000 | |
| 71891 | | | | 48 | | | 1157NA NH | Auto, Amber, Nighthawk™ | 12.8/14 | 2.10/.59A | 24.0/2.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | | |
| | 27004 | | | | 10 | | 1176 | Auto Stop, Tail | 12.8/14 | 1.34/.59A | 21.0/6.0 | S8 | Double Contact Bayonet (BA15d) | C-6/C-6 | 1.25 | 2.00 | 300/1500 | |
| | 27021 | 27023 | | | 10 | 500 | 1195 | Auto | 12.5 | 3.00A | 50.0 | RP11 | Single Contact Bayonet (BA15s) | C-2R | 1.25 | 2.25 | 300 | 305 |
| | 27026 | | | | 10 | | 1196 | Auto | 12.5 | 3.00A | 50.0 | RP11 | Double Contact Bayonet (BA15d) | C-2R | 1.25 | 2.25 | 300 | 305 |
| | 39904 | | | | 10 | | 1229 | Emergency Lighting | 40.0 | .38A | 15.0 | S8 | Double Contact Bayonet (BA15d) | C-2V | 1.12 | 2.00 | 400 | |
| | 81679 | | | | 50 | | 1251 | Instrument | 28.0 | .23A | 3.0 | G6 | Single Contact Bayonet (BA15s) | 2C-2V | 0.75 | 1.44 | 2000 | |
| | 22523 | | | 48 | 10 | | 1295NA | Auto, Amber | 12.5 | 3.00A | 37.0 | S8 | Single Contact Bayonet (BA15s) | C-2R | 1.25 | 2.00 | 200 | |
| | 12824 | | | | 50 | | 1308 | Aircraft, Reading | 28.0 | .56A | 16.0 | B6 | Single Contact Bayonet (BA15s) | CC-8 | 1.06 | 1.75 | 2000 | |
| | 81656 | | | | 50 | | 1309 | Aircraft | 28.0 | .52A | 15.0 | B6 | Single Contact Bayonet (BA15s) | CC-8 | 1.06 | 1.75 | 2000 | |
| | 81667 | | | | 50 | | 1315 | Aircraft, Emergency | 2.5 | 1.00A | 1.8 | G5 | Single Contact Bayonet (BA15s) | C-6 | 0.69 | 1.25 | 20 | 116 |
| | 34265 | | | | 50 | | 1317 | Aircraft, Emergency | 6.0 | .51A | 3.4 | B6 | Single Contact Bayonet (BA15s) | C-6 | 1.12 | 1.75 | 100 | 116 |
| | 27150 | | | | 10 | | 1383 | Aircraft, Reading | 13.0 | 20.0W | | R12 | Single Contact Bayonet (BA15s) | C-8 | | 2.63 | 300 | |
| | 27154 | | | | 10 | | 1385 | Aircraft, Reading | 28.0 | 20.0W | | R12 | Single Contact Bayonet (BA15s) | CC-8 | | 2.63 | 300 | |
| | 27179 | | | | 50 | | 1408 | Signal | 10.0 | .13A | 0.9 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2V | 0.62 | 1.19 | 250 | 13 |
| 12329 | 27207 | | | 48 | 50 | | 1445 | Auto | 14.4 | .135A | 0.7 | G3 1/2 | Miniature Bayonet (Ba9s) | C-2V | 0.50 | 0.94 | 2000 | 13 |
| | 27263 | | | | 50 | | 1450 | Indicator | 24.0 | .035A | 0.2 | G3 1/2 | Miniature Bayonet (Ba9s) | C-2F | 0.50 | 0.94 | 3000 | |
| | 81669 | | | | 10 | | 1460X | Microscope | 6.5 | 2.75A | 23.0 | S8 | Double Contact Prefocus | C-6 | 1.25 | 2.00 | 100 | 11 |
| | 81657 | | | | 10 | | 1495 | Aircraft | 28.0 | .30A | 6.0 | T4 1/2 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.38 | 500 | 11 |
| | 81678 | | | | 10 | | 1495X | Aircraft, Gas Filled | 28.0 | .30A | 6.0 | T4 1/2 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.38 | 500 | 14 |
| | 81672 | | | | 10 | | 1591 | Aircraft | 28.0 | .61A | 15.0 | S8 | Single Contact Bayonet (BA15s) | C-2V | 1.12 | 2.00 | 1000 | 13 |
| | 27461 | | | | 10 | | 1612 | Instrument | 5.4 | 1.90A | 10.0 | S8 | Double Contact Bayonet (BA15d) | C-6 | 1.25 | 2.00 | 1000 | 147 |
| | 27472 | | | | 10 | | 1619 | Instrument | 6.7 | 1.90A | 15.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.12 | 2.00 | 500 | |
| | 27488 | 27489 | | | 10 | 500 | 1630 | Instrument | 6.5 | 2.75A | 23.0 | S8 | Double Contact Prefocus | C-6 | 1.00 | 2.00 | 100 | 11 |
| | 27504 | | | | 50 | | 1638 | Marine | 28.0 | 1.02A | 32.0 | S8 | Double Contact Bayonet (BA15d) | 2C-6 | 1.25 | 2.00 | 500 | |
| | 27529 | | | | 10 | | 1662 | Aircraft | 28/28 | .93/.34A | 32.0/6.0 | S8 | Double Contact Index (BAY15d) | CC-6/C-2V | 1.25 | 2.00 | 400/1000 | 13,15,33 |
| | 27532 | | | | 50 | | 1665 | Aircraft | 28.0 | .80A | 21.0 | S8 | Single Contact Bayonet (BA15s) | C-2V | 1.12 | 2.00 | 1000 | 13 |
| | 81658 | | | | 50 | | 1665AF | Aircraft, Frosted | 28.0 | .80A | | S8 | Single Contact Bayonet (BA15s) | C-2V | | 2.00 | 1000 | 13 |
| | 81668 | | | | 10 | | 1680X | Aircraft | 6.0 | 4.10A | 32.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 300 | |
| | 27557 | | | | 50 | | 1683 | Aircraft, Series Filament | 28.0 | 1.02A | 32.0 | S8 | Single Contact Bayonet (BA15s) | 2C-6 | 1.25 | 2.00 | 500 | |

Miniature, Sealed Beam and Automotive Lamps

Miniature Lamps (continued)

| Order Code | | Case Qty | | | GE Lamp No. | Primary Application | Volts | Amps (A) or Watts (W) | MSCP | Bulb | Base | Filament | LCL (in) | MOL (in) | Rated Life (hrs) | Footnotes, Warning and Caution Notices | |
|------------|-------|----------|----|------|-------------|---------------------|-------------------------------|-----------------------|---------|----------|--------|--------------------------------|----------|----------|------------------|--|--------|
| Blister | Unit | Bulk | BP | Unit | | | | | | | | | | | | | Bulk |
| | 27566 | | | 50 | | 1691 | Aircraft, Series Filament | 28.0 | .61A | 15.0 | S8 | Single Contact Bayonet (BA15s) | 2C-2R | 1.12 | 2.00 | 1000 | |
| | 27568 | | | 50 | | 1691AF | Aircraft, Frosted | 28.0 | .61A | | S8 | Single Contact Bayonet (BA15s) | 2C-2R | | 2.00 | 1000 | |
| | 27571 | | | 10 | | 1692 | Marine | 28.0 | .61A | 15.0 | S8 | Double Contact Bayonet (BA15d) | 2C-2R | 1.12 | 2.00 | 1000 | |
| | 27630 | | | 10 | | 1777 | Aircraft | 12.8 | 1.52A | 26.0 | S8 | Single Contact Bayonet (BA15s) | C-2R | 1.12 | 2.00 | 400 | |
| | 27667 | | | 50 | | 1813 | Radio | 14.4 | .10A | 0.9 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2V | 0.62 | 1.19 | 1000 | 13 |
| 00758 | 27677 | 27679 | 48 | 50 | 4000 | 1815 | Indicator | 14.0 | .20A | 1.4 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.75 | 1.19 | 3000 | 147 |
| 12359 | 27688 | | 48 | 50 | | 1816 | Aircraft, Auto | 13.0 | .33A | 3.0 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2V | 0.62 | 1.19 | 1000 | 13 |
| | 81659 | | | 50 | | 1818 | Aircraft | 24.0 | .17A | 3.3 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 250 | 147 |
| | 81660 | 81661 | | 50 | 1000 | 1819 | Indicator | 28.0 | .04A | 0.3 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 2500 | |
| | 81663 | | | 50 | | 1820 | Indicator | 28.0 | .10A | 1.6 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 1000 | |
| | 27749 | | | 50 | | 1822 | Indicator | 36.0 | .10A | 2.1 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 1000 | |
| | 27772 | | | 50 | | 1828 | Indicator | 37.5 | .05A | 0.7 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 3000 | |
| | 81664 | | | 50 | | 1829 | Indicator | 28.0 | .07A | 1.0 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 1000 | |
| | 27804 | | | 50 | | 1835 | Indicator | 55.0 | .05A | 1.1 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 5000 | |
| | 81665 | 81666 | | 50 | 1000 | 1864 | Aircraft | 28.0 | .17A | 3.0 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 1500 | |
| | 27868 | | | 50 | | 1866 | Radio | 6.3 | .25A | 0.7 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2R | 0.78 | 1.19 | 5000 | 44 |
| | 40383 | | | 50 | | 1873 | Photo Scanner | 28.0 | .20A | 3.0 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 7000 | |
| 12331 | 27917 | | 48 | 50 | | 1891 | Auto | 14.0 | .24A | 2.0 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 500 | |
| 00767 | 27927 | | 48 | 50 | | 1892 | Auto | 14.4 | .12A | 0.8 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 1000 | |
| 12332 | 27935 | 27937 | 48 | 50 | 4000 | 1893 | Auto | 14.0 | .33A | 2.0 | T3 1/4 | Miniature Bayonet (Ba9s) | C-2F | 0.62 | 1.19 | 7500 | |
| 12330 | 27945 | 27948 | 48 | 50 | 4000 | 1895 | Auto | 14.0 | 14.2 | 14.3 | G4 1/2 | Miniature Bayonet (Ba9s) | C-2F | 0.56 | 1.07 | 2000 | |
| 71896 | | | 48 | | | 1895 NH | Auto, Nighthawk™ | 14.0 | 14.2 | 14.3 | G4 1/2 | Miniature Bayonet (Ba9s) | C-2F | 0.56 | 1.07 | | |
| | 34021 | | | 10 | | 1939X | Aircraft | 28.0 | 1.79A | 70.0 | T7 | Single Contact Bayonet (BA15s) | C-2V | 1.25 | 2.16 | 300 | 13,14 |
| | 28008 | | | 10 | | 1940 | Aircraft | 14.0 | 3.57A | 75.0 | T7 | Single Contact Bayonet (BA15s) | C-8Z | 1.25 | 2.16 | 300 | 14 |
| | 18617 | | | 10 | | 1946 | Aircraft | 28.0 | 250W | 660.0 | T3 | 2-Pin with Leads | CC-6 | 0.87 | 1.46 | 50 | |
| | 28011 | | | 10 | | 1958 | Aircraft | 28.0 | 150W | 250.0 | T4 | Tab | CC-8 | 0.75 | 2.25 | 300 | 304 |
| | 39641 | | | 10 | | 1962B | Special Service | 8.5 | 62W | 100.0 | T3 | Wire Terminals | C-6 | 0.29 | 1.14 | 50 | 304 |
| | 12859 | | | 10 | | 1962BG | Aircraft | 8.5 | 62W | 110.0 | T3 | Wire Terminals | C-6 | 0.29 | 1.14 | 50 | 304 |
| | 37947 | | | 10 | | 1962DX | Special Service | 8.5 | 62W | 80.0 | T3 | Wire Terminals | C-6 | 0.29 | 1.14 | 150 | 304 |
| | 44152 | | | 10 | | 1962DZ | Special Service | 8.5 | 62W | 80.0 | T3 | Wire Terminals | C-6 | 0.29 | 1.14 | 150 | 304 |
| | 13667 | | | 10 | | 1962TY | Medical | 8.5 | 62W | 110.0 | T3 | Wire Terminals | C-6 | 0.29 | 1.14 | 50 | 304 |
| | 28034 | | | 10 | | 1968 | Aircraft | 28.0 | 25W | 15.0 | T3 | Double Slide | C-2V | 0.41 | 1.17 | 500 | 13,304 |
| | 41938 | | | 100 | | 1970X | Aircraft | 28.0 | 100W | 140.0 | T3 | Special | CC-8 | | 2.25 | 1000 | 13,304 |
| | 32780 | | | 10 | | 1974 | Instrument | 6.0 | 20W | 10.0 | T3 | Wire Terminals | C-6 | 0.29 | 1.14 | 10000 | 304 |
| | 38545 | | | 100 | | 1978X | Aircraft | 10.0 | 100W | 130.0 | T3 | Bi-Pin (Special) | C-8 | | 2.15 | 2000 | 304 |
| | 38627 | | | 10 | | 1982 | Aircraft | 28.0 | 75W | 11.0 | T3 | Single Contact Bayonet (BA15s) | CC-8 | 1.06 | 1.88 | 1000 | 13,304 |
| | 21061 | | | 10 | | 1982SP | Aircraft | 28.0 | 75W | 107.0 | T3 | Single Contact Bayonet (BA15s) | CC-6 | 1.00 | 1.97 | 2000 | 304 |
| | 39718 | | | 10 | | 1983 | Aircraft | 10.0 | 100W | 130.0 | T4 | 2-Pin | C-8 | 1.25 | 1.80 | 2000 | 304 |
| | 44717 | | | 10 | | 1986 | Aircraft | 28.0 | 250W | 600.0 | T4 | Wire Terminals | CC-6 | 1.03 | 2.00 | 100 | 304 |
| | 47695 | | | 10 | | 1987 | Aircraft | 28.0 | 150W | 240.0 | T4 | Double Contact Bayonet (BA15d) | CC-6 | 1.18 | 2.44 | 700 | 304 |
| | 38535 | | | 10 | | 1988 | Aircraft | 10.0 | 100W | 130.0 | T3 | Special Wire Leads | C-8 | | 2.15 | 2000 | 304 |
| 12326 | 19280 | | 48 | 10 | | 2040 | Auto | 12.8 | .625A | 10.5 | T2 1/4 | Wedge (W2.1x9.5d) | C-6 | 0.40 | 1.25 | 500 | 306 |
| 12296 | 44760 | 18620 | 48 | 50 | 500 | 2057 | Auto, Stop, signal | 12.8/14.0 | 2.1/48A | 32.0/2.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | 1200/5000 | |
| 23339 | | | 48 | | | 2057 LL | Auto, Long Life | 12.8/14.0 | 2.1/48A | 32.0/2.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | 2400/10000 | |
| 89237 | | | 48 | | | 2057 NH | Auto, Nighthawk™ | 12.8/14.0 | 2.1/48A | 32.0/2.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | | |
| 12312 | 44763 | | 48 | 50 | | 2057NA | Auto, Amber | 12.8/14.0 | 2.1/48A | 24.0/1.5 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | 1200/5000 | |
| 47799 | | | 48 | | | 2057NA LL | Auto, Amber, Long Life | 12.8/14.0 | 2.1/48A | 24.0/1.5 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | 2400/10000 | |
| 71892 | | | 48 | | | 2057NA NH | Auto, Amber, Nighthawk™ | 12.8/14.0 | 2.1/48A | 24.0/1.5 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | | |
| | | 12899 | | | 600 | 2058U | Truck | 12.8/14.0 | 2.1/48A | 32.0/2.0 | S8 | Wire Terminals | C-6/C-6 | | 1.81 | 1200/5000 | 113 |
| | 26697 | | | 10 | | 2059 | Aircraft | 12.0 | .833A | 9.1 | T2 1/2 | Miniature Bayonet (Ba9s) | C-8 | 0.59 | 1.30 | 4000 | 304 |
| | 26698 | | | 10 | | 2059X | Aircraft | 12.0 | .833A | 8.0 | T2 1/2 | Miniature Bayonet (Ba9s) | C-8 | 0.59 | 1.30 | 4000 | 304 |
| | 21494 | | | 10 | | 2074 | Instrument | 7.0 | 25W | 24.0 | T3 | Wire Terminals | C-6 | 0.285 | 1.14 | 2700 | 304 |
| | 34763 | | | 50 | | 2232 | Aircraft | 28.0 | 18W | 18.0 | S8 | Single Contact Bayonet (BA15s) | CC-8 | 1.19 | 2.00 | 2000 | |
| | 26702 | | | 50 | | 2232LL | Aircraft, Long Life | 28.0 | 18W | 18.0 | S8 | Single Contact Bayonet (BA15s) | CC-8 | 1.19 | 2.00 | 4000 | |
| | 81677 | | | 10 | | 2232SB | Aircraft, Reflectorized | 28.0 | 18W | | S8 | Single Contact Bayonet (BA15s) | CC-8 | 1.19 | 2.00 | 2000 | |
| | 36906 | | | 10 | | 2233 | Aircraft | 28.0 | 21W | 21.0 | S8 | Single Contact Bayonet (BA15s) | CC-8 | 1.19 | 2.00 | 2000 | |
| 12298 | 16291 | | 48 | 50 | | 2357 | Auto, Stop, signal | 12.8/14.0 | 2.2/59A | 40.0/3.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | 400/5000 | |
| 67904 | | | 48 | | | 2357LL | Auto, Stop, signal, Long Life | 12.8/14.0 | 2.2/59A | 40.0/3.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2 | 800/10000 | |
| 71890 | | | 48 | | | 2357 NH | Auto, Nighthawk™ | 12.8/14.0 | 2.2/59A | 40.0/3.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | | |

For the most up-to-date product information, see www.gelighting.com.

All footnotes, warning and caution notices found at the end of this section (page 8-34).

Miniature Lamps (continued)

| Order Code | | Case Qty | | | | GE Lamp No. | Primary Application | Volts | Amps (A) or Watts (W) | MSCP | Bulb | Base | Filament | LCL (in) | MOL (in) | Rated Life (hrs) | Footnotes, Warning and Caution Notices |
|------------|-------|----------|----|------|------|-------------------|---------------------------|-----------|-----------------------|----------|---------|--------------------------------|----------|----------|----------|------------------|--|
| Blister | Unit | Bulk | BP | Unit | Bulk | | | | | | | | | | | | |
| 12299 | 15698 | | 48 | 50 | | 2357NA | Auto, Amber | 12.8/14.0 | 2.2/59A | 30.0/2.2 | S8 | Double Contact Index (BAY15d) | C-6 | 1.25 | 2.00 | 400/5000 | |
| | 18047 | | | 10 | | 2396 | Auto, Stop | 12.8 | 2.23A | 40.0 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 400 | |
| 27560 | | | 48 | | | 2397 | Auto, Stop, signal | 12.8/14.0 | 2.23/48A | 40.0/2.0 | S8 | Double Contact Index (BAY15d) | C-6/C-6 | 1.25 | 2.00 | 400/5000 | |
| | | 19792 | | | 100 | 2556 | Aircraft | 28.0 | 200W | 525.0 | T3 | 2-Pin | CC-6 | 0.87 | 1.46 | 50 | 304 |
| | | 19566 | | | 100 | 2586 | Aircraft | 28.0 | 250W | 600.0 | T4 | 2-Pin with Insulation Leads | CC-6 | 1.30 | 1.90 | 100 | 304 |
| | 43805 | | | 10 | | 2604X | Instrument, Lens end | 5.0 | 2.0A | | TL2 3/4 | 2-Pin (G4) | C-6 | | 1.18 | 5000 | 124,128,306 |
| | 36508 | | | 10 | | 3011 | Aircraft | 28.0 | 1.29A | 44.0 | S11 | Single Contact Bayonet (BA15s) | C-2V | 1.25 | 2.38 | 1000 | 13 |
| 12305 | 18389 | | 48 | 50 | | 3057 | Auto, Stop, signal | 12.8/14.0 | 2.1/48A | 32.0/2.0 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 1200/5000 | |
| 26378 | | | 48 | | | 3057 LL | Auto, Long Life | 12.8/14.0 | 2.1/48A | 32.0/2.0 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 2000/10000 | |
| 89243 | | | 48 | | | 3057 NH | Auto, Nighthawk™ | 12.8/14.0 | 2.1/48A | 32.0/2.0 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | | |
| 12313 | 18391 | | 48 | 50 | | 3057NA | Auto, Amber | 12.8/14.0 | 2.1/48A | 24.0/1.5 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 1200/5000 | |
| | 14698 | | | 10 | | 3078 | Aircraft | 10.0 | 100W | 95.0 | T3 | Special | C-8 | 1.10 | 2.15 | 4500 | 304 |
| 23028 | | | 48 | | | 3155 | Auto, Signal | 12.8 | 1.60A | 21.0 | S8 | Plastic Wedge | C-6 | 1.10 | 2.09 | 1500 | |
| 12351 | 21863 | | 48 | 50 | | 3156 | Auto, Stop | 12.8 | 2.1A | 32.0 | S8 | Plastic Wedge | C-6 | 1.10 | 2.09 | 1200 | |
| 27565 | | | 48 | | | 3156 LL | Auto, Long Life | 12.8 | 2.1A | 32.0 | S8 | Plastic Wedge | C-6 | 1.10 | 2.09 | 2000 | |
| 71898 | | | 48 | | | 3156 NH | Auto, Nighthawk™ | 12.8 | 2.1A | 32.0 | S8 | Plastic Wedge | C-6 | 1.10 | 2.09 | | |
| 12306 | 17172 | | 48 | 50 | | 3157 | Auto, Stop, signal | 12.8/14.0 | 2.1/59A | 32.0/3.0 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 1200/5000 | |
| 26377 | | | 48 | | | 3157 LL | Auto, Long Life | 12.8/14.0 | 2.1/59A | 32.0/3.0 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 2000/10000 | |
| 89244 | | | 48 | | | 3157 NH | Auto, Nighthawk™ | 12.8/14.0 | 2.1/59A | 32.0/3.0 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | | |
| 12314 | 17173 | | 48 | 50 | | 3157NA | Auto, Amber | 12.8/14.0 | 2.1/59A | 24.0/2.2 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 1200/5000 | |
| 26380 | | | 48 | | | 3157NA LL | Auto, Amber, Long Life | 12.8/14.0 | 2.1/59A | 24.0/2.2 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 2000/10000 | |
| 71893 | | | 48 | | | 3157NA NH | Auto, Amber, Nighthawk™ | 12.8/14.0 | 2.1/59A | 24.0/2.2 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | | |
| 14387 | 22525 | | 48 | 50 | | 3357/3457 | Auto, Stop, signal | 12.8/14.0 | 2.1/59A | 40.0/3.0 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 400/5000 | |
| 26379 | | | 48 | | | 3357/3457 LL | Auto, Long Life | 12.8/14.0 | 2.1/59A | 40.0/3.0 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 800/10000 | |
| 71901 | | | 48 | | | 3457NH | Auto, Nighthawk™ | 12.8/14.0 | 2.1/59A | 40.0/3.0 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | | |
| 14388 | 22526 | | 48 | 50 | | 3357NA/3457NA | Auto, Amber | 12.8/14.0 | 2.1/59A | 30.0/2.2 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 400/5000 | |
| 67910 | | | 48 | | | 3357NALL/3457NALL | Auto, Amber, Long Life | 12.8/14.0 | 2.1/59A | 30.0/2.2 | S8 | Plastic Wedge | C-6/C-6 | 1.1 | 2.09 | 800/10000 | |
| 25834 | | | 48 | | | 3496 | Auto, Japanese | 12.8/14.0 | 2.1/59A | 43.0/3.0 | T7 | Double Contact Index (BAY15d) | C-6/C-6 | | 2.00 | 600/5000 | |
| 25835 | | | 48 | | | 3497 | Auto, Japanese | 12.8 | 2.1A | 45.0 | T7 | Single Contact Bayonet (BA15s) | C-6 | | 2.00 | 600 | |
| 25837 | | | 48 | | | 3652 | Auto, Japanese | 13.5 | .37A | 6.0 | T3 1/4 | Wedge (W2.1x9.5d) | | | 1.06 | 700 | |
| 15657 | | | 48 | | | 4157LL | Auto, Stop, signal | 12.8/14.0 | 2.23/59A | 32.0/3.0 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 3600/10000 | |
| 47458 | | | 48 | | | 4157NA LL | Auto, Stop, signal, Amber | 12.8/14.0 | 2.23/59A | 24.0/2.2 | S8 | Plastic Wedge | C-6/C-6 | 1.10 | 2.09 | 3600/10000 | |
| | 28154 | | | 24 | | 5004 CW | Aircraft-Cool White | A.C. | 4W | 11.9 | T5 | Miniature Pinless | | | 6.00 | 7500 | 32,162,309 |
| | 28155 | | | 24 | | 5004 WW | Aircraft-Warm White | A.C. | 4W | 11.1 | T5 | Miniature Pinless | | | 6.00 | 7500 | 32,162,309 |
| | 28160 | | | 24 | | 5008 CW | Aircraft-Cool White | A.C. | 8W | 35.4 | T5 | Miniature Pinless | | | 12.00 | 7500 | 32,162,309 |
| | 28163 | | | 24 | | 5008 WW | Aircraft-Warm White | A.C. | 8W | 34.6 | T5 | Miniature Pinless | | | 12.00 | 7500 | 32,162,309 |
| | 28168 | | | 24 | | 5013 CW | Aircraft-Cool White | A.C. | 13W | 65.2 | T5 | Miniature Pinless | | | 21.00 | 7500 | 32,162,309 |
| | 28169 | | | 24 | | 5013 WW | Aircraft-Warm White | A.C. | 13W | 62.8 | T5 | Miniature Pinless | | | 21.00 | 7500 | 32,162,309 |
| | 27367 | | | 24 | | 5104 CW | Aircraft-Cool White | A.C. | 4W | 11.9 | T5 | Miniature Bi-Pin | | | 6.00 | 7500 | 32,162,309 |
| | 28173 | | | 24 | | 5104 WW | Aircraft-Warm White | A.C. | 4W | 11.1 | T5 | Miniature Bi-Pin | | | 6.00 | 7500 | 32,162,309 |
| | 12774 | | | 24 | | 5106 CW | Aircraft-Cool White | A.C. | 6W | 24.7 | T5 | Miniature Bi-Pin | | | 9.00 | 7500 | 32,162,309 |
| | 33612 | | | 24 | | 5106 WW | Aircraft-Warm White | A.C. | 6W | 23.9 | T5 | Miniature Bi-Pin | | | 9.00 | 7500 | 32,162,309 |
| | 27466 | | | 24 | | 5108 CW | Aircraft-Cool White | A.C. | 8W | 35.4 | T5 | Miniature Bi-Pin | | | 12.00 | 7500 | 32,162,309 |
| | 28175 | | | 24 | | 5108 WW | Aircraft-Warm White | A.C. | 8W | 34.6 | T5 | Miniature Bi-Pin | | | 12.00 | 7500 | 32,162,309 |
| | 12775 | | | 24 | | 5113 CW | Aircraft-Cool White | A.C. | 13W | 65.2 | T5 | Miniature Bi-Pin | | | 21.00 | 7500 | 32,162,309 |
| | 28178 | | | 24 | | 5113 WW | Aircraft-Warm White | A.C. | 13W | 62.8 | T5 | Miniature Bi-Pin | | | 21.00 | 7500 | 32,162,309 |
| | | 29897 | | | 1000 | 6034BP | Aircraft | 28.0 | .024A | 0.15 | T1 3/4 | Bi-Pin (M-23) | C-2F | | 0.64 | 5000 | |
| | | 29895 | | | 1000 | 6034BPGL | Aircraft | 28.0 | .024A | 0.15 | T1 3/4 | Bi-Pin (M-23) | C-2F | | 0.64 | 5000 | |
| | | 87360 | | | 1000 | 6832 | Aircraft | 5.0 | .06A | 0.05 | T1 | Short Wire Terminal | C-2R | | 0.14 | 100000 | |
| | | 87351 | | | 1000 | 6832AS15 | Aircraft | 5.0 | .06A | 0.05 | T1 | Short Wire Terminal | C-2R | | 0.14 | 100000 | |
| | | 87291 | | | 1000 | 6839 | Aircraft | 28.0 | .024A | 0.15 | T1 | Sub-Midget Flanged | CC-2F | | 0.36 | 16000 | |
| | | 29893 | | | 1000 | 6839BPE | Aircraft | 28.0 | .024A | 0.15 | T1 | Bi-Pin (M-23) | CC-2F | | 0.35 | 16000 | |
| | | 29894 | | | 1000 | 6839BPEGPL | Aircraft | 28.0 | .024A | 0.15 | T1 | Bi-Pin (M-23) | CC-2F | | 0.35 | 16000 | |
| | | 87274 | | | 1000 | 7132AS15 | Aircraft | 5.0 | .075A | 0.09 | T1 | Short Wire Terminal | C-2R | | 0.14 | 40000 | |

For the most up-to-date product information, see www.gelighting.com.

All footnotes, warning and caution notices found at the end of this section (page 8-34).

Miniature, Sealed Beam and Automotive Lamps

Miniature Lamps (continued)

| Order Code | | | Case Qty | | | GE Lamp No. | Primary Application | Volts | Amps (A) or Watts (W) | MSCP | Bulb | Base | Filament | LCL (in) | MOL (in) | Rated Life (hrs) | Footnotes, Warning and Caution Notices |
|------------|-------|-------|----------|------|------|-------------|------------------------------------|-----------|-----------------------|------------|--------|------------------------|----------|----------|----------|------------------|--|
| Blister | Unit | Bulk | BP | Unit | Bulk | | | | | | | | | | | | |
| | | 87402 | | | 1000 | 7152 | Aircraft | 5.0 | .115A | 0.15 | T1 | Short Wire Terminal | C-2R | | 0.14 | 40000 | |
| | | 97548 | | | 1000 | 7152AS15 | Aircraft | 5.0 | .115A | 0.15 | T1 | Short Wire Terminal | C-2R | | 0.14 | 40000 | |
| | 28926 | | | 50 | | 7387 | Indicator | 28.0 | .04A | 0.3 | T1 3/4 | Bi-Pin (M-23) | C-2F | 0.50 | 0.61 | 7000 | 79 |
| 26200 | | | 48 | | | 7440 | Auto, Japanese Vehicles | 13.5 | 1.85A | 37.0 | T7 | Wedge (103x16DQ) | C-6 | | 1.75 | 300 | |
| 67905 | | | 48 | | | 7440LL | Auto, Japanese Vehicles, Long Life | 13.5 | 1.85A | 37 | T7 | Wedge (103x16DQ) | C-6 | | 1.75 | 600 | |
| 26201 | | | 48 | | | 7443 | Auto, Japanese Vehicles | 13.5/13.5 | 1.85/4A | 35.0/3.0 | T7 | Wedge (103x16DQ) | C-6/C-6 | | 1.75 | 500/1000 | |
| 67906 | | | 48 | | | 7443LL | Auto, Japanese Vehicles, Long Life | 13.5/13.5 | 1.85/4A | 35.0/3.0 | T7 | Wedge (103x16DQ) | C-6/C-6 | | 1.75 | 1000/2000 | |
| 89248 | | | 48 | | | 7443 NH | Auto, Nighthawk™ | 13.5/13.5 | 1.85/4A | 35.0/3.0 | T7 | Wedge (103x16DQ) | C-6/C-6 | | 1.75 | | |
| 22432 | 22389 | 14542 | 48 | 100 | 200 | 9003/HB2 | Auto headlamp | 12.8/12.8 | 60/55W | 119.0/72.0 | T4 3/4 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 150/800 | 4,306 |
| 78935 | | | 48 | | | 9003 LL | Auto headlamp, Long Life | 12.8/12.8 | 67/60W | 119.0/72.0 | T4 3/4 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 300/1600 | 4,306 |
| 25107 | | | 12 | | | 9003 NH | Auto, Nighthawk™ | 12.8/12.8 | 67/60W | 119.0/72.0 | T4 3/4 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 160/260 | 4,306 |
| 25150 | | | 24 | | | 9003 NH | Auto, Nighthawk™ | 12.8/12.8 | 67/60W | 119.0/72.0 | T4 3/4 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 160/260 | 4,306 |
| 89139 | | | 24 | | | 9003 NHS | Auto, Nighthawk™ Sport | 12.8/12.8 | 67/60W | 119.0/72.0 | T4 3/4 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 100/200 | 4,306 |
| 89230 | | | 12 | | | 9003 NHS | Auto, Nighthawk™ Sport | 12.8/12.8 | 67/60W | 119.0/72.0 | T4 3/4 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 100/200 | 4,306 |
| 66004 | | | 3 | | | 9003 NHS | Auto, Nighthawk™ Sport | 12.8/12.8 | 67/60W | 119.0/72.0 | T4 3/4 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 100/200 | 4,306 |
| 75814 | | | 12 | | | 9003 NHP | Auto, Nighthawk™ Platinum | 12.8/12.8 | 67/60W | 119.0/72.0 | T4 3/4 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 125/125 | 4,306 |
| 69861 | | | 12 | | | 9003 NHX | Auto, Nighthawk™ Xenon | 12.8/12.8 | 67/60W | 119.0/72.0 | T4 3/4 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 125/125 | 4,306 |
| 18508 | 13382 | | 48 | 100 | | 9004/HB1 | Auto headlamp | 12.8/12.8 | 65/45A | 95.0/55.0 | T4 3/4 | Axial Plastic Prefocus | C-6/C-6 | 1.75 | 4.17 | 150/320 | 4,306 |
| 13993 | 11249 | 20559 | 48 | 100 | 250 | 9004 LL | Auto, Long Life | 12.8/12.8 | 65/47W | 95.0/55.0 | T4 3/4 | Axial Plastic Prefocus | C-6/C-6 | 1.75 | 4.17 | 150/850 | 4,306 |
| 25106 | | | 12 | | | 9004 NH | Auto, Nighthawk™ | 12.8/12.8 | 65/45A | 95.0/55.0 | T4 3/4 | Axial Plastic Prefocus | C-6/C-6 | 1.75 | 4.17 | 150/225 | 4,306 |
| 25149 | | | 24 | | | 9004 NH | Auto, Nighthawk™ | 12.8/12.8 | 65/45A | 95.0/55.0 | T4 3/4 | Axial Plastic Prefocus | C-6/C-6 | 1.75 | 4.17 | 150/225 | 4,306 |
| 97698 | | | 24 | | | 9004 NHS | Auto, Nighthawk™ Sport | 12.8/12.8 | 65/45A | 95.0/55.0 | T4 3/4 | Axial Plastic Prefocus | C-6/C-6 | 1.75 | 4.17 | 97/178 | 4,306 |
| 97699 | | | 12 | | | 9004 NHS | Auto, Nighthawk™ Sport | 12.8/12.8 | 65/45A | 95.0/55.0 | T4 3/4 | Axial Plastic Prefocus | C-6/C-6 | 1.75 | 4.17 | 97/178 | 4,306 |
| 75815 | | | 12 | | | 9004 NHP | Auto, Nighthawk™ Platinum | 12.8/12.8 | 65/45A | 95.0/55.0 | T4 3/4 | Axial Plastic Prefocus | C-6/C-6 | 1.75 | 4.17 | 50/150 | 4,306 |
| 18509 | 13384 | 36431 | 48 | 100 | 200 | 9005/HB3 | Auto headlamp | 12.8 | 65W | 135.0 | T4 | Right Angle (P20d) | C-8 | 1.24 | 3.13 | 800 | 4,306 |
| 25105 | | | 12 | | | 9005 NH | Auto, Nighthawk™ | 12.8 | 65W | 135.0 | T4 | Right Angle (P20d) | C-8 | 1.24 | 3.13 | 340 | 4,306 |
| 25148 | | | 24 | | | 9005 NH | Auto, Nighthawk™ | 12.8 | 65W | 135.0 | T4 | Right Angle (P20d) | C-8 | 1.24 | 3.13 | 340 | 4,306 |
| 89140 | | | 24 | | | 9005 NHS | Auto, Nighthawk™ Sport | 12.8 | 65W | 135.0 | T4 | Right Angle (P20d) | C-8 | 1.24 | 3.13 | 340 | 4,306 |
| 89232 | | | 12 | | | 9005 NHS | Auto, Nighthawk™ Sport | 12.8 | 65W | 135 | T4 | Right Angle (P20d) | C-8 | 1.24 | 3.13 | 120 | 4,306 |
| 75816 | | | 12 | | | 9005 NHP | Auto, Nighthawk™ Platinum | 12.8 | 65W | 135 | T4 | Right Angle (P20d) | C-8 | 1.24 | 3.13 | 100 | 4,306 |
| 69862 | | | 12 | | | 9005 NHX | Auto, Nighthawk™ Xenon | 12.8 | 65W | 135 | T4 | Right Angle (P20d) | C-8 | 1.24 | 3.13 | 100 | 4,306 |
| 45866 | | | 48 | | | 9005 XS LL | Auto, Axial Base, Long Life | 12.8 | 65W | 135.0 | T4 | Axial Plastic | C-8 | 1.24 | 3.13 | 700 | 4,306 |
| 18510 | 13397 | 36432 | 48 | 100 | 200 | 9006/HB4 | Auto headlamp | 12.8 | 51W | 80.0 | T4 | Right Angle (P22d) | C-8 | 1.24 | 3.13 | 850 | 4,306 |
| 25104 | | | 12 | | | 9006 NH | Auto, Nighthawk™ | 12.8 | 55W | 80.0 | T4 | Right Angle (P22d) | C-8 | 1.24 | 3.13 | 1200 | 4,306 |
| 25147 | | | 24 | | | 9006 NH | Auto, Nighthawk™ | 12.8 | 55W | 80.0 | T4 | Right Angle (P22d) | C-8 | 1.24 | 3.13 | 1200 | 4,306 |
| 97700 | | | 24 | | | 9006 NHS | Auto, Nighthawk™ Sport | 12.8 | 55W | 80.0 | T4 | Right Angle (P22d) | C-8 | 1.24 | 3.13 | 400 | 4,306 |
| 97701 | | | 12 | | | 9006 NHS | Auto, Nighthawk™ Sport | 12.8 | 55W | 80.0 | T4 | Right Angle (P22d) | C-8 | 1.24 | 3.13 | 400 | 4,306 |
| 75817 | | | 12 | | | 9006 NHP | Auto, Nighthawk™ Platinum | 12.8 | 55W | 80 | T4 | Right Angle (P22d) | C-8 | 1.24 | 3.13 | 125 | 4,306 |
| 69863 | | | 12 | | | 9006 NHX | Auto, Nighthawk™ Xenon | 12.8 | 55W | 80 | T4 | Right Angle (P22d) | C-8 | 1.24 | 3.13 | 125 | 4,306 |
| 45868 | | | 48 | | | 9006 XS LL | Auto, Axial Base, Long Life | 12.8 | 55W | 80.0 | T4 | Axial Plastic | C-8 | 1.24 | 3.13 | 1500 | 4,306 |
| 22388 | 20551 | 20552 | 48 | 100 | 250 | 9007/HB5 | Auto headlamp | 12.8/12.8 | 65/55W | 107.0/79.0 | T4 3/4 | Axial Plastic Prefocus | C-8/C-8 | 1.75 | 4.17 | 150/1,100 | 4,306 |
| 78639 | | | 48 | | | 9007 LL | Auto headlamp, Long Life | 12.8/12.8 | 65/55W | 107.0/79.0 | T4 3/4 | Axial Plastic Prefocus | C-8/C-8 | 1.75 | 4.17 | 300/2200 | 4,306 |
| 25103 | | | 12 | | | 9007 NH | Auto, Nighthawk™ | 12.8/12.8 | 65/55W | 107.0/79.0 | T4 3/4 | Axial Plastic Prefocus | C-8/C-8 | 1.75 | 4.17 | 250/250 | 4,306 |
| 25146 | | | 24 | | | 9007 NH | Auto, Nighthawk™ | 12.8/12.8 | 65/55W | 107.0/79.0 | T4 3/4 | Axial Plastic Prefocus | C-8/C-8 | 1.75 | 4.17 | 250/250 | 4,306 |
| 97696 | | | 24 | | | 9007 NHS | Auto, Nighthawk™ Sport | 12.8/12.8 | 65/55W | 107.0/79.0 | T4 3/4 | Axial Plastic Prefocus | C-8/C-8 | 1.75 | 4.17 | 131/370 | 4,306 |

Miniature Lamps (continued)

| Order Code | | | Case Qty | | | GE Lamp No. | Primary Application | Volts | Amps (A) or Watts (W) | MSCP | Bulb | Base | Filament | LCL (in) | MOL (in) | Rated Life (hrs) | Footnotes, Warning and Caution Notices |
|------------|-------|-------|----------|------|------|---------------|------------------------------------|-----------|-----------------------|------------|--------|--------------------------|----------|----------|----------|------------------|--|
| Blister | Unit | Bulk | BP | Unit | Bulk | | | | | | | | | | | | |
| 97697 | | | 12 | | | 9007 NHS | Auto, Nighthawk™ Sport | 12.8/12.8 | 65/55W | 107.0/79.0 | T4 3/4 | Axial Plastic Prefocus | C-8/C-8 | 1.75 | 4.17 | 131/370 | 4,306 |
| 75818 | | | | | | 9007 NHP | Auto, Nighthawk™ Platinum | 12.8/12.8 | 65/55W | 107.0/79.0 | T4 3/4 | Axial Plastic Prefocus | C-8/C-8 | 1.75 | 4.17 | 90/150 | 4,306 |
| 69864 | | | 12 | | | 9007 NHX | Auto, Nighthawk™ Xenon | 12.8/12.8 | 65/55W | 107.0/79.0 | T4 3/4 | Axial Plastic Prefocus | C-8/C-8 | 1.75 | 4.17 | 90/150 | 4,306 |
| 71342 | | | 48 | | | 9008(H13) | Auto headlamp | 12.8/12.8 | 65/55W | 119.0/79.6 | T4 5/8 | P26.4t | C-8/C-8 | 1.00 | 3.54 | 320/150 | 4,306 |
| 78653 | | | 12 | | | 9008(H13) NH | Auto headlamp, Nighthawk™ | 12.8/12.8 | 65/55W | 119.0/79.6 | T4 5/8 | P26.4t | C-8/C-8 | 1 | 3.54 | 320/150 | 4,306 |
| 78654 | | | 12 | | | 9008(H13) NHS | Auto headlamp, Nighthawk™ Sport | 12.8/12.8 | 65/55W | 119.0/79.6 | T4 5/8 | P26.4t | C-8/C-8 | 1 | 3.54 | 320/150 | 4,306 |
| 62430 | | | 12 | | | 9008(H13) NHP | Auto headlamp, Nighthawk™ Platinum | 12.8/12.8 | 65/55W | 119.0/79.6 | T4 5/8 | P26.4t | C-8/C-8 | 1 | 3.54 | 320/150 | 4,306 |
| 40843 | | 42382 | 48 | | 200 | 9145/H10 | Auto Fog | 12.8 | 45W | 65.0 | T4 | PY20D | C-8 | 1.24 | 3.01 | 1500 | 4,306 |
| 47461 | | | 48 | | | 58540 | Auto, Halogen | 13.5 | .37A | 63.0 | T3 | Miniature Bayonet (Ba9s) | C-2R | 0.59 | 1.22 | 240 | 308 |
| | 26696 | | | 10 | | A-103 | Aircraft | 28.0 | 50W | 60.0 | T3 | Bi-Pin (Special) | CC-8 | | 1.87 | 1000 | 304 |
| | 12064 | | | 10 | | B1A | Neon Glow-NE51 | 120.0 | 1/25W | | T3 1/4 | Miniature Bayonet (Ba9s) | | | 1.19 | 15000 | 164 |
| | 12065 | | | 10 | | B2A | Neon Glow-NE51H | 120.0 | 1/7W | | T3 1/4 | Miniature Bayonet (Ba9s) | | | 1.19 | 25000 | 164 |
| | 31675 | | | 10 | | B7A | Neon Glow-NE45 | 120.0 | 1/4W | | T4 1/2 | Candelabra Screw (E12) | | | 1.53 | 7500 | 164 |
| 23312 | | | 48 | | | C5W | Auto. ECE C5W | 13.5 | .37A | 3.6 | T3 1/2 | SV8.5MM | | | 1.45 | 450 | |
| | 78734 | | | 12 | | D1S | Auto Discharge-Projector | 85 | 35W | | | | | 1.06 | | 3000 | 1,2310 |
| | 80851 | 70603 | | 24 | 144 | D2R | Auto Discharge-Reflector | 85.0 | 35W | 114.0 | T3 | P32d-3 | | 1.06 | 3.09 | 1000 | 1,2310 |
| | 25088 | 70605 | | 24 | 144 | D2S | Auto Discharge-Projector | 85.0 | 35W | 254.0 | T3 | P32d-2 | | 1.06 | 3.09 | 1000 | 1,2310 |
| | 90057 | | | 32 | | D2S BLUE | Non-Auto Discharge | 85.0 | 35W | | T3 | P32d-2 | | 1.06 | 3.09 | 1000 | 1,2310 |
| | 90059 | | | 32 | | D2S SUPERBLUE | Non-Auto Discharge | 85.0 | 35W | | T3 | P32d-2 | | 1.06 | 3.09 | 1000 | 1,2310 |
| 25323 | | | 48 | | | DE3021 | Auto | 14.0 | .24A | 2.0 | T2 1/4 | #10 Spade | | | 1.15 | 1000 | |
| 12353 | | | 48 | | | DE3022 | Auto | 13.0 | .38A | 3.0 | T2 1/4 | #10 Spade | | | 1.18 | 1000 | |
| 12354 | 12084 | 28858 | 48 | 50 | 5000 | DE3175 | Auto | 13.0 | .77A | 9.6 | T3 1/4 | SV8.5MM | | | 1.25 | 400 | |
| 67909 | | | 48 | | | DE3175LL | Auto, Long Life | 13 | .77A | 9.6 | T3 1/4 | SV8.5MM | | | 1.25 | 800 | |
| 89245 | | | 48 | | | DE3175 NH | Auto, Nighthawk™ | 13.0 | .77A | 9.6 | T3 1/4 | SV8.5MM | | | 1.25 | | |
| | 12085 | | | 10 | | DE 3425 | Auto | 13.0 | .77A | 9.6 | T4 | SV8.5MM | | | 1.50 | 400 | |
| 23324 | | | 48 | | | DE7576 | Strip Lighting | 13.5 | .74A | 9.8 | T3 1/2 | SV8.5MM | | | 1.65 | 200 | |
| 40336 | 27328 | 32376 | 48 | 10 | 300 | H1-55 | Auto, GE 50310/1 | 13.2 | 62W | 123.0 | T3 1/2 | P14.5S | C-8 | 1.08 | 2.66 | 225 | 308 |
| 25159 | | | 24 | | | H1-55 NH | Auto, Nighthawk™ | 13.2 | 62W | 123.0 | T3 1/2 | P14.5S | C-8 | 1.08 | 2.66 | 1000 | 308 |
| 25092 | | | 12 | | | H1-55 NH | Auto, Nighthawk™ | 13.2 | 62W | 123.0 | T3 1/2 | P14.5S | C-8 | 1.08 | 2.66 | 1000 | 308 |
| 94193 | | | 12 | | | H1-55NHP | Auto, Nighthawk™ Platinum | 13.2 | 62W | 123 | T3 1/2 | P14.5S | C-8 | 1.08 | 2.66 | 250 | 308 |
| 69857 | | | 12 | | | H1-55NHX | Auto, Nighthawk™ Xenon | 13.2 | 62W | 123 | T3 1/2 | P14.5S | C-8 | 1.08 | 2.66 | 250 | 308 |
| 78134 | | | 12 | | | H1-55NHP | Auto, Nighthawk™ Platinum | 13.2 | 62W | 123 | T3 1/2 | P14.5S | C-8 | 1.08 | 2.66 | 250 | 308 |
| | 27569 | | | 10 | | H1-70 | Auto, GE50230/1 | 28.0 | 80W | 151.0 | T3 1/2 | P14.5S | C-8 | 1.08 | 2.46 | 600 | 308 |
| | 27330 | | | 10 | | H2-55 | Auto, GE 50410 | 13.2 | 62W | 143.0 | T3 1/2 | X511 | C-8 | 0.48 | 1.22 | 225 | 308 |
| | | 23442 | | | 400 | H3-35 | CIM, GE 50390 | 13.2 | 40W | 60.0 | T3 1/2 | PK22S | C-6 | 0.71 | 1.65 | 200 | 308 |
| 12339 | 27331 | 22132 | 48 | 10 | 400 | H3-55 | Auto, GE 50340 | 12 | 62W | 115.0 | T3 1/2 | PK22S | C-6 | 0.71 | 1.65 | 225 | 308 |
| | | 23445 | | | 400 | H3-55D | CIM, GE 50340D | 13.2 | 62W | 111.0 | T3 1/2 | PK22S | C-6 | 0.71 | 1.65 | 600 | 308 |
| | | 35044 | | | 400 | H3-55LL | Auto, GE50340, Long Life | 13.2 | 64W | 106.0 | T3 1/2 | PK22S | C-6 | 0.71 | 1.65 | 2000 | 308 |
| | | 23428 | | | 400 | H3-65/28V | CIM, GE 52590D | 28.0 | 66W | 102.0 | T3 1/2 | PK22S | C-6 | 0.71 | 1.65 | 1000 | 308 |
| | 27332 | | | 10 | | H3-70/28V | CIM, GE50350 | 28.0 | 75W | 135.0 | T3 1/2 | PK22S | CC-6 | 0.71 | 1.65 | 225 | 308 |
| 12341 | | | 48 | | | H3-100 | Off Road, GE52130 | 13.2 | 92W | 187.0 | T3 1/2 | PK22S | C-6 | 0.71 | 1.65 | 100 | 308 |
| 18132 | 27334 | 22133 | 48 | 10 | 200 | H4-60/55 | Auto H4, GE 50440 | 13.2/13.2 | 71/66W | 138.0/80.0 | T5 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 225/900 | 308 |
| 25094 | | | 24 | | | H4-60 NH | Auto, Nighthawk™ | 13.2/13.2 | 71/66W | 138.0/80.0 | T5 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 300 | |
| 75820 | | | 12 | | | H4-60NHP | Auto, Nighthawk™ Platinum | 13.2/13.2 | 71/66W | 138.0/80.0 | T5 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 250/250 | |
| 69858 | | | 12 | | | H4-60NHX | Auto, Nighthawk™ Xenon | 13.2/13.2 | 71/66W | 138.0/80.0 | T5 | P43T-38 | C-8/C-8 | 1.12 | 3.62 | 250/250 | |
| | 27342 | 93732 | | 10 | 200 | H4-75/70/24V | Bus, GE 50450 | 24.0/24.0 | 80/73W | 151.0/95.0 | T5 | P43T-38 | C-8/C-8 | 1.14 | 3.62 | 150/300 | 308 |
| 26374 | | 38641 | 48 | | 200 | H7-55 | Auto, ECE/DOT, GES8520 | 13.2 | 57W | 115.0 | T3 1/2 | PX26D | C-8 | 0.98 | 2.36 | 500 | 308 |
| 78640 | | | 48 | | | H7-55 LL | Auto, ECE/DOT, GES8520, Long Life | 13.2 | 57W | 115 | T3 1/2 | PX26D | C-8 | 0.98 | 2.36 | 1000 | 308 |
| | | 35755 | | | 200 | H7-55LL | Auto, ECE/DOT | 13.2 | 57W | 115.0 | T3 1/2 | PX26D | C-8 | 0.98 | 2.36 | 610 | |
| 25160 | | | 24 | | | H7-55 NH | Auto, Nighthawk™ | 13.2 | 57W | 115.0 | T3 1/2 | PX26D | C-8 | 0.98 | 2.36 | 250 | |

For the most up-to-date product information, see www.gelighting.com.

All footnotes, warning and caution notices found at the end of this section (page 8-34).

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

Stage and Studio

Miniature, Sealed Beam and Automotive

Projection

Miniature, Sealed Beam and Automotive Lamps

Miniature Lamps (continued)

| Order Code | | | Case Qty | | | GE Lamp No. | Primary Application | Volts | Amps (A) or Watts (W) | MSCP | Bulb | Base | Filament | LCL (in) | MOL (in) | Rated Life (hrs) | Footnotes, Warning and Caution Notices |
|------------|-------|-------|----------|------|------|----------------|------------------------------------|-----------|-----------------------|------------|--------|----------------------------------|----------|----------|----------|------------------|--|
| Blister | Unit | Bulk | BP | Unit | Bulk | | | | | | | | | | | | |
| 89141 | | | 24 | | | H7-55 NHS | Auto, Nighthawk™ Sport | 13.2 | 57W | 115.0 | T3 1/2 | PX26D | C-8 | 0.98 | 2.36 | 130 | 308 |
| 89235 | | | 12 | | | H7-55 NHS | Auto, Nighthawk™ Sport | 13.2 | 57W | 115 | T3 1/2 | PX26D | C-8 | 0.98 | 2.36 | 130 | 308 |
| 66006 | | | 3 | | | H7-55 NHS | Auto, Nighthawk™ Sport | 13.2 | 57W | 115 | T3 1/2 | PX26D | C-8 | 0.98 | 2.36 | 130 | 308 |
| 75821 | | | 12 | | | H7-55NHP | Auto, Nighthawk™ Platinum | 13.2 | 57W | 115 | T3 1/2 | PX26D | C-8 | 0.98 | 2.36 | 130 | 308 |
| 69860 | | | 12 | | | H7-55NHX | Auto, Nighthawk™ Xenon | 13.2 | 57W | 115 | T3 1/2 | PX26D | C-8 | 0.98 | 2.36 | 130 | 308 |
| 29047 | | 15765 | 48 | | 140 | H8 | Auto, ECE Fog | 13.2 | 40W | 64.0 | T3 1/2 | PGJ19-1 | C-8 | 1.06 | 2.63 | 400 | 2,308 |
| 29049 | | 15827 | 48 | | 140 | H9 | Auto, ECE headlamp | 13.2 | 65W | 167.0 | T3 1/2 | PGJ19-5 | C-8 | 1.08 | 2.63 | 125 | 2,308 |
| 23762 | | 15828 | 48 | | 140 | H11 | Auto, ECE headlamp | 13.2 | 55W | 107.0 | T3 1/2 | PGJ19-2 | C-8 | 1.07 | 2.63 | 550 | 2,308 |
| 89255 | | 15963 | 48 | | 140 | H11LL | Auto, ECE headlamp. Long Life | 13.2 | 55W | 107.0 | T3 1/2 | PGJ19-2 | C-8 | 1.07 | 2.63 | 1100 | 4,308 |
| 62267 | | | 12 | | | H11-55NHP | Auto, Nighthawk™ Platinum | 13.2 | 55W | 107 | T3 1/2 | PGJ19-2 | C-8 | 1.07 | 2.63 | 125 | 4,308 |
| 69865 | | | 12 | | | H11-55NHX | Auto, Nighthawk™ Xenon | 13.2 | 55W | 107 | T3 1/2 | PGJ19-2 | C-8 | 1.07 | 2.63 | 125 | 4,308 |
| 76189 | | | 12 | | | H11 C55NHP | Auto, Nighthawk™ Platinum | 13.2 | 55W | 107 | T3 1/2 | PGJ19-2 | C-8 | 1.07 | 2.63 | 125 | 4,308 |
| 71342 | | | 48 | | | H13 (9008) | Auto headlamp | 12.8/12.8 | 65/55W | 119.0/79.6 | T4 5/8 | P26.4t | C-8/C-8 | 1.00 | 3.54 | 320/150 | 308 |
| 78653 | | | 12 | | | H13 (9008) NH | Auto headlamp, Nighthawk™ | 12.8/12.8 | 65/55W | 119.0/79.6 | T4 5/8 | P26.4t | C-8/C-8 | 1 | 3.54 | 320/150 | 4,306 |
| 78654 | | | 12 | | | H13 (9008) NHS | Auto headlamp, Nighthawk™ Sport | 12.8/12.8 | 65/55W | 119.0/79.6 | T4 5/8 | P26.4t | C-8/C-8 | 1 | 3.54 | 320/150 | 4,306 |
| 62430 | | | 12 | | | H13 (9008) NHP | Auto headlamp, Nighthawk™ Platinum | 12.8/12.8 | 65/55W | 119.0/79.6 | T4 5/8 | P26.4t | C-8/C-8 | 1 | 3.54 | 320/150 | 4,306 |
| 22961 | | | 48 | | | KPR102 | Flashlight-2D Krypton | 2.4 | .7A | 3.0 | B3 1/2 | Single Contact Miniature Flanged | C-2R | 0.25 | 48.00 | 15 | 116 |
| 23153 | | | 48 | | | KPR 113 | Flashlight-4D Krypton | 4.8 | .47A | 4.1 | B3 1/2 | Single Contact Miniature Flanged | C-2R | 0.25 | 1.25 | 20 | 116 |
| 23306 | | | 48 | | | P21W | Auto, ECE Stop | 13.5 | 1.85A | 36.6 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 250 | |
| 89247 | | | 48 | | | P21W NH | Auto, Nighthawk™ | 13.5 | 1.85A | 36.6 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | | |
| 20695 | | 30852 | 48 | | 1000 | P21W LL | Auto, Long Life | 13.5 | 1.85A | 36.6 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 300 | |
| 67896 | | | 48 | | | P21W LL | Auto, Long Life | 13.5 | 1.85A | 36.6 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2 | 300 | |
| | 40778 | | | 10 | | P21W 24V | Bus, Stop | 28.0 | 1.0A | 36.6 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 150 | |
| 27561 | | | 48 | | | P21/4W | Auto, ECE, Stop, tail | 13.5/13.5 | 1.85/37A | 35.0/1.19 | S8 | Double Contact Index (BAV15d) | C-6/C-6 | 1.25 | 2.00 | 100/100 | |
| 23303 | | 30856 | 48 | | 1000 | P21/SW | Auto, ECE, Stop, tail | 13.5/13.5 | 1.85/44 | 35.0/2.78 | S8 | Double Contact Index (BAV15d) | C-6/C-6 | 1.25 | 2.00 | 250 1000 | |
| 67894 | | | 48 | | | P21/5WLL | Auto, ECE, Stop, tail, Long Life | 13.5/13.5 | 1.85/44 | 35.0/2.78 | S8 | Double Contact Index (BAV15d) | C-6/C-6 | 1.25 | 2 | 500/2000 | |
| | | 21274 | | | 1000 | P21/5W LL | Auto, Long Life | 13.5/13.5 | 1.85/44 | 35.0/2.78 | S8 | Double Contact Index (BAV15d) | C-6/C-6 | 1.25 | 2.00 | 600/3000 | |
| 89246 | | | 48 | | | P21/5W NH | Auto, Nighthawk™ | 13.5/13.5 | 1.85/44 | 35.0/2.78 | S8 | Double Contact Index (BAV15d) | C-6/C-6 | 1.25 | 2.00 | | |
| | 27222 | 23037 | | 10 | 1000 | PC168 | Auto Instrument | 14.0 | .35A | 3.0 | T3 1/4 | Printed Circuit Socket | C-2F | 0.45 | 1.11 | 1500 | |
| | 27221 | | | 10 | | PC194 | Auto Instrument | 14.0 | .27A | 2.0 | T3 1/4 | Printed Circuit Socket | C-2F | 0.45 | 1.11 | 2500 | |
| 12675 | 25181 | | 48 | 50 | | PR2 | Flashlight-2D cells | 2.4 | .5A | 0.8 | B3 1/2 | Single Contact Miniature Flanged | C-2R | 0.25 | 1.25 | 15 | 116 |
| 12676 | 25193 | | 48 | 50 | | PR3 | Flashlight-3D cells | 3.6 | .5A | 1.5 | B3 1/2 | Single Contact Miniature Flanged | C-2R | 0.25 | 1.25 | 15 | 116 |
| 12677 | | | 48 | | | PR4 | Flashlight-2C cells | 2.3 | .27A | 0.4 | B3 1/2 | Single Contact Miniature Flanged | C-2R | 0.25 | 1.25 | 15 | 116 |
| | 25222 | | | 50 | | PR6 | Flashlight-2D cells | 2.5 | .3A | 0.5 | B3 1/2 | Single Contact Miniature Flanged | C-2R | 0.25 | 1.25 | 30 | 116 |
| | 25235 | | | 50 | | PR7 | Flashlight-3D cells | 3.7 | .3A | 0.9 | B3 1/2 | Single Contact Miniature Flanged | C-2R | 0.25 | 1.25 | 30 | 116 |
| | 25252 | | | 50 | | PR12 | Flashlight-5D cells | 6.0 | .5A | 3.1 | B3 1/2 | Single Contact Miniature Flanged | C-2R | 0.25 | 1.25 | 15 | 116 |
| 12681 | 25262 | | 48 | 50 | | PR13 | Flashlight-4F cells | 4.8 | .5A | 2.2 | B3 1/2 | Single Contact Miniature Flanged | C-2R | 0.25 | 1.25 | 15 | 116 |
| | 25289 | | | 50 | | PR18 | Flashlight-6D cells | 7.2 | .55A | 5.5 | B3 1/2 | Single Contact Miniature Flanged | C-2R | 0.25 | 1.25 | 3 | 116 |
| 41370 | | 18294 | 48 | | 500 | PV21W | Auto, ECE, Stop, Tail, Amber | 13.5 | 1.85A | 22.3 | S8 | Single Contact Bayonet (BA15s) | C-6 | 1.25 | 2.00 | 250 | |
| 23314 | | | 48 | | | R5W | Auto, ECE, GE2619 | 13.5 | 5W | 4.0 | G6 | Single Contact Bayonet (BA15s) | C-2R | 0.75 | 1.47 | | |
| 23765 | | 30859 | | | 2000 | R5WLL | Auto, ECE | 13.5 | 5W | 4.0 | G6 | Single Contact Bayonet (BA15s) | C-2R | 0.75 | 1.47 | 500 | |
| 23322 | | 35417 | 48 | | 2000 | R10W | Auto, ECE, GE2641 | 13.5 | 10W | 10.0 | G6 | Single Contact Bayonet (BA15s) | C-2R | 0.75 | 1.47 | 400 | |
| 23318 | | | 48 | | | T4W | Auto, ECE, GE2662 | 13.5 | 4W | 2.8 | T2 3/4 | Miniature Bayonet (Ba9s) | C-2R | 0.59 | 1.08 | 450 | |
| | 12756 | | | 50 | | TEL/6PSB | Telephone Indicator | 6.0 | .14A | 550.0 | T2 | Tel. Slide No. 5 | C-2V | 1.11 | 1.11 | 20000 | 80 |
| | 12760 | | | 50 | | TEL/12PSB | Telephone Indicator | 12.0 | .17A | 2000.0 | T2 | Tel. Slide No. 5 | C-2F | 1.11 | 1.11 | 12000 | 80 |
| | 29001 | | | 50 | | TEL/24E2 | Telephone Indicator | 24.0 | .035A | 600.0 | T2 | Tel. Slide No. 3 | C-2F | 1.69 | 1.69 | 7000 | 80 |
| | 12071 | | | 50 | | TEL/24PSB | Telephone Indicator | 24.0 | .073A | 3000.0 | T2 | Tel. Slide No. 5 | C-2F | 1.11 | 1.11 | 10000 | 80 |
| | 12761 | | | 50 | | TEL/28MB | Telephone Indicator | 28.0 | .04A | 0.3 | T2 1/2 | Miniature Bayonet (Ba9s) | C-2F | 1.19 | 1.19 | 5000 | 80 |
| | 12072 | | | 50 | | TEL/28PSB | Telephone Indicator | 28.0 | .04A | 1600.0 | T2 | Tel. Slide No. 5 | C-2F | 1.11 | 1.11 | 5000 | 80 |
| | 29041 | | | 50 | | TEL/48C2 | Telephone Indicator | 48.0 | .035A | 750.0 | T2 | Tel. Slide No. 3 | C-2F | 1.69 | 1.69 | 5000 | 80 |
| | 12075 | | | 50 | | TEL/48PSB | Telephone Indicator | 48.0 | .05A | 1800.0 | T2 | Tel. Slide No. 5 | C-7A | 1.11 | 1.11 | 10000 | 80 |
| | 12076 | | | 50 | | TEL/60MB | Telephone Indicator | 60.0 | .05A | 0.7 | T2 1/2 | Miniature Bayonet (Ba9s) | C-7A | 1.19 | 1.19 | 7500 | 80 |
| | 12077 | | | 50 | | TEL/60PSB | Telephone Indicator | 60.0 | .05A | 1800.0 | T2 | Tel. Slide No. 5 | C-7A | 1.11 | 1.11 | 7500 | 80 |

Miniature Lamps (continued)

| Order Code | | | Case Qty | | | GE Lamp No. | Primary Application | Volts | Amps (A) or Watts (W) | MSCP | Bulb | Base | Filament | LCL (in) | MOL (in) | Rated Life (hrs) | Footnotes, Warning and Caution Notices |
|------------|-------|------|----------|------|------|-------------|----------------------|-------|-----------------------|--------|--------|--------------------------|----------|----------|----------|------------------|--|
| Blister | Unit | Bulk | BP | Unit | Bulk | | | | | | | | | | | | |
| | 12078 | | | 50 | | TEL/120MB | Telephone Indicator | 120.0 | .025A | 0.4 | T2 1/2 | Miniature Bayonet (Ba9s) | CC-7A | | 1.19 | 7500 | 80 |
| | 12080 | | | 50 | | TEL/120PSB | Telephone Indicator | 120.0 | .025A | 1000.0 | T2 | Tel. Slide No. 5 | CC-7A | | 1.11 | 7500 | 80 |
| | 27562 | | 35030 | 48 | 2000 | W3W | Auto, ECE | 13.5 | 3W | 1.8 | T3 1/4 | Wedge (W2.1x9.5d) | C-2V | 0.50 | 1.06 | 1000 | |
| | 27563 | | 28759 | 48 | 2000 | W5W | Auto, ECE | 13.5 | 5W | 4.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2V | 0.50 | 1.06 | 300 | |
| | 67895 | | | 48 | | W5WLL | Auto, ECE, Long Life | 13.5 | 5W | 4 | T3 1/4 | Wedge (W2.1x9.5d) | C-2V | 0.5 | 1.06 | 600 | |
| | | | 26353 | | 1000 | W16W | Auto, ECE | 13.5 | 16W | 24.6 | T5 | Wedge (W2.1x9.5d) | C-2F | 0.81 | 1.49 | 250 | 121 |
| | | | 20280 | | 1000 | W16W | Auto, ECE | 13.5 | 16W | 24.6 | T5 | Wedge (W2.1x9.5d) | C-2F | 0.81 | 1.49 | 250 | 121 |
| | | | 20279 | | 1000 | W5W | Auto, ECE, Amber | 13.5 | 5W | 3.0 | T3 1/4 | Wedge (W2.1x9.5d) | C-2V | 0.50 | 1.06 | 300 | |

Sealed Beam and Automotive Lamps

| Product Code | | Quantity | | GE Lamp No. | Bulb | Applications | Volts | Watts | MBCP | Base | MOL (in) | Rated Life (hrs) | Spread to 10% MBCP | | Footnotes, Warning and Caution Notices |
|--------------|-------|----------|------|-------------|-------|-----------------------------|-----------|-------|-----------|---------------------|-----------|------------------|--------------------|----------|--|
| Unit | Bulk | Unit | Bulk | | | | | | | | | | Horizontal | Vertical | |
| 18511 | | | 6 | 4000 | PAR46 | Headlamp-Low beam | 12.8/12.8 | 38/60 | SAE | 3 Contact Lugs | 4.00 | 200/320 | | | 4 |
| 24327 | | | 12 | 4013 | PAR46 | Tractor, Flood | 6.4 | 25 | 800 | Screw Terminals | 3.75 | 300 | 80° | 20° | |
| | 24338 | | 60 | 4014 | PAR36 | Emergency Building Light | 6.4 | 18 | 1500 | Screw Terminals | 2.75 | 200 | 50° | 25° | |
| 24369 | | | 12 | 4019 | PAR46 | Tractor | 6.2 | 30 | 1200 | Screw Terminals | 3.75 | 300 | Trapezoidal | | 23 |
| 38418 | | | 12 | 4040 | PAR46 | Truck, Low beam | 12.8/12.8 | 38/60 | SAE | 3 Contact Lugs | 4.00 | 300/500 | | | 4 |
| 39585 | 39586 | 12 | 60 | 4042 | PAR36 | Emergency Building Light | 6.4 | 12 | 1100 | Screw Terminals | 2.75 | 150 | 45° | 20° | |
| 40588 | 40589 | 12 | 60 | 4044 | PAR36 | Emergency Building Light | 12.0 | 12 | 1100 | Screw Terminals | 2.75 | 150 | 50° | 25° | |
| 10540 | 10541 | 12 | 60 | 4044-1 | PAR36 | Emergency Building Light | 12.0 | 12 | 1100 | Slip-on Terminals | 2.75 | 150 | 50° | 25° | |
| 25051 | | | 12 | 4313 | PAR36 | Aircraft Landing | 13.0 | 250 | 140000 | Screw Terminals | 2.75 | 25 h | 16° | 7° | 302 |
| 39366 | 39367 | 12 | 60 | 4340 | PAR36 | Electric Truck Worklight | 48.0 | 80 | 2500 | Slip-on Terminals | 2.75 | 400 | Trapezoidal | | 15 |
| 39362 | 39363 | 12 | 60 | 4350 | PAR36 | Electric Truck Worklight | 36.0 | 60 | 2100 | Slip-on Terminals | 2.75 | 400 | Trapezoidal | | 15 |
| 12961 | | | 12 | 4402A | PAR36 | CIM Signal | 28.0 | 50 | 1000 | Screw Terminals | 2.75 | 400 | 50° | 25° | |
| 24425 | 24423 | 12 | 60 | 4405 | PAR36 | Spotlamp | 12.8 | 30 | 50000 | Screw Terminals | 2.75 | 100 | 6° | 5° | 167 |
| 24430 | 24428 | 12 | 60 | 4406 | PAR36 | Tractor, Flood | 12.8 | 35 | 600 | Screw Terminals | 2.75 | 300 | 80° | 30° | 4 |
| 24439 | | | 12 | 4410 | PAR36 | Backup, Tractor Flood | 12.8 | 35 | 600 | Screw Terminals | 2.75 | 300 | 80° | 30° | 4 |
| 24448 | 24443 | 12 | 60 | 4411 | PAR36 | Tractor | 12.8 | 35 | 3000 | Screw Terminals | 2.75 | 300 | Trapezoidal | | 4 |
| 37889 | 37890 | 12 | 60 | 4411-1 | PAR36 | Tractor | 12.8 | 35 | 3000 | Slip-on Terminals | 2.75 | 300 | Trapezoidal | | 4 |
| 29040 | | | 12 | 4411-3 | PAR36 | Tractor | 12.8 | 35 | 3000 | Combination | 2.75 | 300 | Trapezoidal | | 4 |
| 24454 | 24453 | 12 | 24 | 4412 | PAR46 | Fog | 12.8 | 35 | 11000 | Screw Terminals | 3.75 | 300 | 40° | 7° | 167 |
| 24460 | 24459 | 12 | 24 | 4412A | PAR46 | Fog, yellow | 12.8 | 35 | 8800 | Screw Terminals | 3.75 | 300 | 40° | 7° | 167 |
| 22981 | 24464 | 12 | 24 | 4413 | PAR46 | Tractor, Flood | 12.8 | 35 | 1100 | Screw Terminals | 3.75 | 300 | 80° | 20° | 4 |
| 24478 | 24477 | 12 | 60 | 4414 | PAR36 | Garden | 12.8 | 18 | 1500 | Screw Terminals | 2.75 | 300 | 50° | 25° | |
| 24487 | | | 12 | 4414R | PAR36 | Warning Signal, Red Lens | 12.8 | 18 | 275 | Screw Terminals | 2.75 | 300 | 50° | 25° | |
| 22982 | 24490 | 12 | 60 | 4415 | PAR36 | Fog | 12.8 | 35 | 9000 | Screw Terminals | 2.75 | 300 | 40° | 5° | 167 |
| 24499 | 24497 | 12 | 60 | 4415A | PAR36 | Truck Fog, Amber Lens | 12.8 | 35 | 7000 | Screw Terminals | 2.75 | 300 | 40° | 5° | 167 |
| 22983 | 24503 | 12 | 60 | 4416 | PAR36 | Narrow Spot | 12.8 | 30 | 35000 | Screw Terminals | 2.75 | 300 | 11° | 4° | |
| | 34901 | | 60 | 4416-1 | PAR36 | Warning Signal, Narrow Spot | 12.8 | 30 | 35000 | Slip-on Terminals | 2.75 | 300 | 11° | 4° | |
| 24506 | | | 12 | 4416A | PAR36 | Signal, Amber | 12.8 | 30 | 26000 | Screw Terminals | 2.75 | 300 | 11° | 4° | |
| 24513 | | | 12 | 4416R | PAR36 | Signal, Red | 12.8 | 30 | 4000 | Screw Terminals | 2.75 | 300 | 11° | 4° | |
| 24531 | 24525 | 12 | 24 | 4419 | PAR46 | Tractor | 12.8 | 35 | 1600 | Screw Terminals | 3.75 | 300 | Trapezoidal | | 4 |
| 24539 | | | 12 | 4421 | PAR46 | Truck | 13.0 | 100 | 23000 | Slip-on Terminals | 3.75 | 300 | 50° | 7° | 109,167 |
| 24542 | | | 12 | 4422 | PAR36 | Tractor | 12.8 | 35 | 600 | Screw Terminals | 2.75 | 300 | 75° Cone | | 4 |
| 24572 | | | 12 | 4434A | PAR46 | Bus, Red Lens | 12.8 | 40 | 1000 | Screw Terminals | 3.75 | 100 | 55° | 25° | |
| 24577 | 24576 | 12 | 24 | 4435 | PAR46 | Pin Spotlight | 12.8 | 30 | 75000 | Screw Terminals | 3.75 | 100 | 5° | 5° | 167 |
| 24582 | | | 12 | 4436 | PAR46 | Signal | 12.8 | 35 | 60000 | Screw Terminals | 3.75 | 300 | 10° | 4° | |
| 39932 | 39933 | 12 | 60 | 4440X | PAR36 | Tractor | 12.8/12.8 | 40/40 | 6000/4500 | 3 Contact Lugs | 3.00 | 320/320 | 40°/33° | 7°/9° | 4 |
| 39748 | | | 12 | 4440X-1 | PAR36 | Tractor | 12.8/12.8 | 40/40 | 6000/4500 | 3 Slip-on Terminals | 2.75 | 320/320 | 40°/33° | 7°/9° | 4 |
| 37046 | 37047 | 12 | 60 | 4446 | PAR36 | Emergency Building Light | 12.8 | 25 | 400 | Screw Terminals | 2.75 | 300 | 80° | 80° | |
| 40176 | | | 12 | 4460X | PAR36 | Tractor | 12.8/12.8 | 40/40 | 0 | 3 Screw Terminals | 2.75 | 320/320 | 22° | 13° | 4 |
| 24592 | | | 12 | 4461 | PAR36 | Tractor | 12.8 | 60 | 6000 | Screw Terminals | 2.7500 cm | 300 | Trapezoidal | | 4 |
| 24596 | | | 12 | 4466 | PAR36 | Tractor | 12.8 | 60 | 1000 | Screw Terminals | 2.75 | 300 | 80° | 30° | 4 |
| 24613 | | | 12 | 4478 | PAR46 | CIM | 13.0 | 60 | 1600 | 2 Contact Lugs | 4.00 | 800 | 56° | 32° | 4 |
| 24627 | | | 12 | 4502 | PAR36 | Headlamp Military | 28.0 | 50 | 10000 | Screw Terminals | 2.75 | 400 | 40° | 7° | |
| 24640 | 24638 | 12 | 60 | 4505 | PAR36 | Aircraft Navigation | 28.0 | 50 | 45000 | Screw Terminals | 2.75 | 400 | 11° | 5° | |
| 24650 | 24649 | 12 | 60 | 4509 | PAR36 | Aircraft Landing | 13.0 | 100 | 110000 | Screw Terminals | 2.75 | 25 | 12° | 6° | 167 |
| 41503 | | | 12 | 4509X | PAR36 | Marine Spotlight | 13.0 | 100 | 110000 | Screw Terminals | 2.75 | 25 | 12° | 6° | 167 |
| 11524 | | | 12 | 4509Y | PAR36 | Emergency Vehicle | 13.0 | 100 | | Screw Terminals | 2.75 | 25 | 12° | 6° | |
| 24654 | 24653 | 12 | 60 | 4510 | PAR36 | Tractor | 6.4 | 25 | 800 | Screw Terminals | 2.75 | 300 | 80° | 20° | |
| 24663 | 24661 | 12 | 60 | 4511 | PAR36 | Tractor | 6.2 | 30 | 2300 | Screw Terminals | 2.75 | 300 | Trapezoidal | | 23 |
| 24673 | 24671 | 12 | 60 | 4515 | PAR36 | Pin Spot | 6.4 | 30 | 55000 | Screw Terminals | 2.75 | 100 | 5° | 5° | 167 |
| 24678 | | | 12 | 4516 | PAR36 | Narrow Spot | 6.2 | 30 | 45000 | Screw Terminals | 2.75 | 300 | 9° | 4° | |

For the most up-to-date product information, see www.gelighting.com. All footnotes, warning and caution notices found at the end of this section (page 8-34).

Miniature, Sealed Beam and Automotive Lamps

Sealed Beam and Automotive Lamps (continued)

| Product Code | Quantity | | GE Lamp No. | Bulb | Applications | Volts | Watts | MBCP | Base | MOL (in) | Rated Life (hrs) | Spread to 10% MBCP | | Footnotes, Warning and Caution Notices | |
|--------------|----------|------|-------------|--------|-------------------------|--------------------------|----------|---------------|-------------------|-------------------|------------------|--------------------|------------|--|--|
| | Unit | Bulk | | | | | | | | | | Horizontal | Vertical | | |
| 24690 | | 12 | 4519 | PAR36 | Marine | 13.0 | 100 | 30000 | Screw Terminals | 2.75 | 25 | 40° | 7° | | |
| 24700 | | 12 | 4522 | PAR46 | Aircraft Landing | 13.0 | 250 | 290000 | Screw Terminals | 3.13 | 25 | 12° | 10° | 92,138,167 | |
| 24721 | | 12 | 4530 | PAR46 | Signal, Flashing | 26.0 | 139 | 100000 | Screw Terminals | 3.75 | 50 | 11° | 11° | | |
| 24726 | | 12 | 4531 | PAR46 | Headlamp, Military | 12.5 | 40 | 30000 | Screw Terminals | 3.75 | 400 | 20° | 5° | | |
| 19628 | | 12 | 4532 | PAR46 | Aircraft | 28.0/28.0 | 250/150 | 75000/14500 | Screw Terminals | 3.75 | 100/100 | 12°/16° | 19°/19° | | |
| 24735 | | 12 | 4535 | PAR46 | Pin Spot | 6.4 | 30 | 95000 | Screw Terminals | 3.75 | 100 | 20° | 4° | 167 | |
| 24742 | 24775 | 12 | 4537 | PAR46 | Aircraft Landing | 13.0 | 100 | 200000 | Screw Terminals | 3.13 | 25 | 11° | 6° | 167 | |
| 40822 | | 12 | 4537-2 | PAR46 | Spotlamp | 13.0 | 100 | 200000 | Screw Terminals | 3.13 | 25 | 11° | 6° | | |
| 39022 | | 12 | 4537X | PAR46 | Marine | 13.0 | 100 | 200000 | Screw Terminals | 3.13 | 25 | 11° | 6° | 167 | |
| 24756 | | 12 | 4541 | PAR56 | Aircraft Landing | 28.0 | 450 | 470000 | Screw Terminals | 4.50 | 25 | 15° | 11° | 167,302 | |
| 24764 | | 12 | 4543 | PAR56 | Marine | 12.5 | 100 | 250000 | Screw Terminals | 4.50 | 50 | 9° | 5° | | |
| 24768 | | 12 | 4545 | PAR56 | Marine, Hand Lantern | 12.0 | 100 | 225000 | Screw Terminals | 4.50 | 100 | 9° | 5° | 167 | |
| 24780 | 24783 | 12 | 4546 | PAR36 | Hand Lantern | 4.7 | 2 | 6300 | Screw Terminals | 2.75 | 100 | 3° | 3° | | |
| 24770 | | 12 | 4546-1 | PAR36 | Hand Lantern | 4.7 | 2 | 6300 | Slip-on Terminals | 2.75 | 100 | 3° | 3° | | |
| 24795 | | 12 | 4551 | PAR46 | Aircraft Taxiing | 28.0 | 250 | 75000 | Screw Terminals | 3.75 | 25 | 50° | 10° | 138 | |
| 40576 | | 12 | 4552 | PAR64 | Aircraft Landing | 28.0 | 250 | 500000 | Screw Terminals | 3.75 | 25 | 7° | 8° | 138,167 | |
| 24799 | | 12 | 4553 | PAR46 | Aircraft Landing | 28.0 | 250 | 300000 | Screw Terminals | 3.13 | 25 | 11° | 12° | 138,167 | |
| 24802 | | 12 | 4554 | PAR46 | Aircraft Taxiing | 28.0 | 450 | 90000 | Screw Terminals | 3.13 | 25 | 50° | 16° | 302 | |
| 40581 | | 12 | 4557 | PAR64 | Aircraft Landing | 28.0/28.0 | 1000/400 | 540000/100000 | 3 Screw Terminals | 3.75 | 25/100 | 25°/100° | 11°/25° | 138,302 | |
| 40578 | | 12 | 4559 | PAR64 | Aircraft Landing | 28.0 | 600 | 600000 | Screw Terminals | 3.75 | 25 | 11° | 12° | 138,167 | |
| 24828 | | 12 | 4570 | PAR46 | Aircraft Taxiing | 28.0 | 150 | 32000 | Screw Terminals | 3.75 | 300 | 50° | 9° | | |
| 24830 | | 12 | 4571 | PAR46 | CIM Flood | 28.0 | 150 | 7000 | Screw Terminals | 3.75 | 300 | 80° | 25° | | |
| 24833 | | 12 | 4572 | PAR46 | Military | 28.0 | 150 | 4500 | Screw Terminals | 3.75 | 300 | 55° | 55° | | |
| 25005 | 25007 | 12 | 4578 | PAR46 | CIM Flood | 28.0 | 60 | 1600 | 2 Contact Lugs | 4.00 | 800 | 55° | 30° | | |
| 25009 | | 12 | 4579 | PAR46 | CIM Headlamp | 28.0/28.0 | 80/60 | 24000/11000 | 3 Contact Lugs | 4.00 | 400/400 | 25°/7° | 25°/7° | | |
| 24859 | | 12 | 4580 | PAR46 | Aircraft Landing | 28.0 | 450 | 400000 | Screw Terminals | 3.75 | 10 | 13° | 14° | 302 | |
| 24862 | | 12 | 4581 | PAR46 | Aircraft Landing | 28.0 | 450 | 400000 | Screw Terminals | 3.13 | 10 | 13° | 14° | 302 | |
| 24853 | | 12 | 4582 | PAR46 | Aircraft Flood | 28.0 | 450 | 20000 | Screw Terminals | 3.75 | 10 | 50° | 55° | 302 | |
| 24867 | | 12 | 4587 | PAR36 | Aircraft Taxiing | 28.0 | 250 | 40000 | Screw Terminals | 2.75 | 25 h | 40° | 13° | 302 | |
| 24873 | 24871 | 12 | 4589 | PAR36 | Aircraft Flood | 28.0 | 50 | 5000 | Screw Terminals | 2.75 | 400 | Trapezoidal | | | |
| | 23509 | | 4589-1 | PAR36 | Aircraft Flood | 28.0 | 50 | 5000 | Slip-on Terminals | 2.75 | 400 | Trapezoidal | | | |
| 24882 | | 12 | 4591 | PAR36 | Aircraft Landing | 28.0 | 100 | 90000 | Screw Terminals | 2.75 | 25 h | 12° | 6° | | |
| 24887 | | 12 | 4593 | PAR36 | Aircraft Refueling | 28.0 | 50 | 1500 | Screw Terminals | 2.75 | 400 | 80° | 30° | | |
| 24891 | | 12 | 4594 | PAR36 | Aircraft Navigation | 28.0 | 100 | 70000 | Screw Terminals | 2.75 | 300 | 13° | 7° | | |
| 24892 | | 12 | 4595 | PAR36 | Aircraft Navigation | 13.0 | 100 | 60000 | Screw Terminals | 2.75 | 300 | 14° | 6° | | |
| 24898 | | 12 | 4596 | PAR36 | Aircraft Landing | 28.0 | 250 | 150000 | Screw Terminals | 2.75 | 25 h | 11° | 12° | 302 | |
| 24964 | | 12 | 4626 | PAR36 | Aircraft Taxiing | 28.0 | 150 | 25000 | Screw Terminals | 2.75 | 300 | 40° | 9° | | |
| 24966 | | 12 | 4627 | PAR36 | Aircraft Flood | 28.0 | 100 | 3000 | Screw Terminals | 2.75 | 300 | 80° | 30° | | |
| 33284 | | 12 | 4635 | PAR46 | Aircraft Landing | 16.5 | 450 | 325000 | Screw Terminals | 3.75 | 25 h | 14° | 15° | 302 | |
| 19632 | 16407 | 12 | 4636-3 | PAR46 | Emergency Vehicle | 14.0 | 80 | 90000 | Combination | 3.75 | 200 | 9° | 7.5° | | |
| 18517 | | 6 | 4651 | 165mm | Headlamp-High beam | 12.8 | 50 | SAE | 2 Contact Lugs | 4.80 | 200 | | | 4,307 | |
| 18518 | | 6 | 4652 | 165mm | Headlamp-Low beam | 12.8/12.8 | 40/60 | SAE | 3 Contact Lugs | 4.80 | 200/320 | | | 4,307 | |
| 39906 | 39907 | 12 | 4700 | PAR36 | Spot/ Flood | 13.0/13.0 | 100/100 | 100000/50000 | 3 Screw Terminals | 2.75 | 25/250 | 12°/17° | 7°/18° | | |
| 46427 | | 12 | 4713 | PAR36 | Aircraft Logo | 28.0 | 150 | 4200 | Screw Terminals | 2.75 | 300 | 50° | 65° | | |
| 44724 | | 12 | 4752 | PAR36 | CIM Flood | 28.0 | 60 | 2000 | Screw Terminals | 2.75 | 800 | 50° | 25° | | |
| 24973 | | 12 | 4800 | PAR56 | Military Headlamp | 28.0/28.0 | 50/40 | SAE | 3 Contact Lugs | 5.00 | 400/400 | | | | |
| 24980 | | 12 | 4811 | PAR36 | Military Headlamp | 28.0/28.0 | 110/55 | SAE | 3 Contact Lugs | 3.00 | 400/400 | | | | |
| 24981 | 24982 | 12 | 4825R | PAR36 | CIM Stop/Tail, Red Lens | 28.0/28.0 | 50/18 | 200/40 | 3 Screw Terminals | 2.75 | 200/200 | | | | |
| 24995 | | 12 | 4880 | PAR46 | CIM Headlamp | 28.0 | 60 | 6000 | 2 Contact Lugs | 4.00 | 800 | | | | |
| 45110 | 45111 | 12 | 4912-1 | 165mm | Truck Fog | 12.8 | 50 | 14000 | Slip-on Terminals | 4.53 | 300 | 40° | 7° | 167,307 | |
| | 45113 | | 4913-1 | 165mm | Tractor Flood | 12.8 | 50 | | Slip-on Terminals | 4.53 | 400 | 80° | 20° | 4,307 | |
| 45116 | 16195 | 12 | 4921-1 | 165mm | Truck | 13.0 | 100 | 25000 | Slip-on Terminals | 4.53 | 300 | 40° | 7° | 109,307 | |
| 11639 | | 6 | 5001 | PAR46 | Headlamp-High beam | 12.8 | 50 | | 2 Contact Lugs | 4.00 | 200 | | | 4 | |
| 16152 | | 12 | 5557 | PAR64 | Aircraft Landing | 28.0/28.0 | 1000/40 | 540000/100000 | 3 Screw Terminals | 3.75 | 50/100 | 11° 25° | 15° 11° | 138,302 | |
| 25114 | | 12 | 6006 | PAR56 | Headlamp-High/Low beam | 6.1/6.2 | 50/40 | SAE | 3 Contact Lugs | 5.00 | 300/500 | | | | |
| 18519 | | 6 | 6014 | PAR56 | Headlamp-High/Low beam | 12.8/12.8 | 60/50 | SAE | 3 Contact Lugs | 5.00 | 320/150 | | | 4 | |
| 38416 | 38607 | 12 | 6015 | PAR56 | Truck-High/Low beam | 12.8/12.8 | 50/50 | SAE | 3 Contact Lugs | 5.00 | 300/500 | | | 4 | |
| 25153 | | 12 | 6045 | PAR56 | Signal | 26.0 | 170 | 230000 | Screw Terminals | 4.50 | 100 | 9° | 8° | | |
| 18521 | 43867 | 6 | 6052 | 200mm | Headlamp-High/Low beam | 12.8/12.8 | 65/55 | SAE | 3 Contact Lugs | 5.44 | 150/320 | | | 4,307 | |
| 69822 | 85695 | 1 | 24 | 200mm | LED Sealed Beam | 11/33 | | | 3 Contact Lugs | 5.44 | 15000 | | | | |
| 40190 | 40191 | 12 | 7400 | PAR36 | Signal-rotating beacon | 12.8 | 35 | 33000 | Slip-on Terminals | 2.75 | 300 | 12° | 5° | | |
| | 42385 | | 7400-1 | PAR36 | Signal-rotating beacon | 12.8 | 35 | 33000 | Screw Terminals | 2.75 | 300 | 12° | 5° | | |
| 39987 | | 12 | 7414Y | PAR36 | Signal-Amber Lens | 12.8 | 18 | 1000 | Screw Terminals | 2.75 | 300 | 50° | 25° | | |
| 41865 | 41866 | 12 | 60 | 7613 | PAR36 | Emergency Building Light | 6.0 | 8 | 400 | Screw Terminals | 2.75 | 50 | 30° | 20° | |
| 45101 | 45102 | 12 | 60 | 7613-1 | PAR36 | Emergency Building Light | 6.0 | 8 | 400 | Slip-on Terminals | 2.75 | 50 | 30° | 20° | |

For the most up-to-date product information, see www.gelighting.com.

All footnotes, warning and caution notices found at the end of this section (page 8-34).

Sealed Beam and Automotive Lamps (continued)

| Product Code | Quantity | | GE Lamp No. | Bulb | Applications | Volts | Watts | MBCP | Base | MOL (in) | Rated Life (hrs) | Spread to 10% MBCP | | Footnotes, Warning and Caution Notices | |
|--------------|----------|------|-------------|-----------|--------------|-----------------------------|-----------|-------|------------|--------------------|------------------|--------------------|-----------------|--|-----------|
| | Unit | Bulk | | | | | | | | | | Horizontal | Vertical | | |
| 11421 | 11422 | 12 | 60 | 7672-1 | PAR36 | Emergency Building Light | 6.0 | 7 | 350 | Slip-on Terminals | 2.75 | 50 | 30° | 20° | |
| 22386 | | 6 | | H4351 | 140mm | Headlamp-Low beam | 12.8 | 55 | SAE | Right Angle Lugs | 4.00 | 500 | | | 307 |
| 10211 | | 6 | | H4351LH | 140mm | Auto export only | 12.8 | 55 | | Right Angle Lugs | 4.00 | 500 | | | 307 |
| 22387 | | 6 | | H4352 | 140mm | Headlamp-High beam | 12.8 | 65 | SAE | Right Angle Lugs | 4.00 | 150 | | | 307 |
| | 18350 | | 48 | H4360 | 140mm | Tractor | 12.8 | 38 | 2000 | 2 Right Angle Lugs | 3.00 | 320 | Trapezoidal | | 307 |
| 15129 | | 12 | | H4405 | PAR36 | Very Narrow Spot | 12.8 | 30 | 66000 | Screw Terminals | 2.75 | 100 | 7° | 4° | 167,307 |
| | 17674 | | 60 | H4460X | PAR36 | Tractor | 12.8/12.8 | 40/40 | 11000/8500 | 3 Screw Terminals | 2.75 | 320/320 | 22°/22° | 10°/13° | 4,307 |
| 15133 | | 12 | | H4515 | PAR36 | Very Narrow Spot | 6.4 | 30 | 67000 | Screw Terminals | 2.75 | 100 | 5.5° | 4° | 167,307 |
| 18532 | 45027 | 6 | 576 | H4651 | 165mm | Headlamp-High beam | 12.8 | 50 | SAE | 2 Contact Lugs | 4.80 | 200 | | | 4,307 |
| 46375 | | 6 | | H4651SB | 165mm | Headlamp-High beam | 12.8 | 50 | SAE | 2 Contact Lugs | 4.80 | 200 | | | 4,307 |
| 18533 | 49810 | 6 | 576 | H4656 | 165mm | Headlamp-Low beam | 12.8/12.8 | 35/35 | SAE | 3 Contact Lugs | 4.80 | 200/320 | | | 4,307 |
| 14753 | | 6 | | H4656HO | 165mm | Headlamp-Low beam | 12.8/12.8 | 40/55 | SAE | 3 Contact Lugs | 4.80 | 200/700 | | | 4,307 |
| 45475 | | 6 | | H4656SB | 165mm | Headlamp-Low beam | 12.8/12.8 | 40/55 | SAE | 3 Contact Lugs | 4.80 | 75/200 | | | 4,307 |
| 25098 | | 6 | | H4656 NH | 165mm | Headlamp Nighthawk™ | 12.8/12.8 | 40/55 | SAE | 3 Contact Lugs | 4.80 | | | | 307 |
| 97695 | | 6 | | H4656 NHS | 165mm | Headlamp Nighthawk™ Sport | 12.8/12.8 | 40/55 | SAE | 3 Contact Lugs | 4.80 | | | | 307 |
| 18535 | 22879 | 6 | 576 | H4666 | 165mm | Headlamp-High/Low beam | 12.8/12.8 | 65/55 | SAE | 3 Contact Lugs | 4.80 | 150/320 | | | 4,166,307 |
| 28157 | | 6 | | H4666 NH | 165mm | Headlamp Nighthawk™ | 12.8/12.8 | 65/55 | SAE | 3 Contact Lugs | 4.80 | | | | 166,307 |
| 97694 | | 6 | | H4666 NHS | 165mm | Headlamp Nighthawk™ Sport | 12.8/12.8 | 65/55 | SAE | 3 Contact Lugs | 4.80 | | | | 166,307 |
| 18536 | 48533 | 6 | 480 | H4701 | 150mm | Headlamp-High beam | 12.8 | 65 | SAE | 2 Lugs | 3.40 | 150 | | | 307 |
| 18538 | 48534 | 6 | 480 | H4703 | 150mm | Headlamp-Low beam | 12.8 | 55 | SAE | 2 Lugs | 3.40 | 320 | | | 307 |
| 18522 | | 6 | | H5001 | PAR46 | Headlamp-High beam | 12.8 | 50 | SAE | 2 Contact Lugs | 4.00 | 200 | | | |
| 18523 | | 6 | | H5006 | PAR46 | Headlamp-Low beam | 12.8/12.8 | 35/35 | SAE | 3 Contact Lugs | 4.00 | 200/320 | | | 4,307 |
| 19428 | 19559 | 6 | 432 | H5024 | PAR56 | Truck-High/Low beam | 12.8/12.8 | 65/42 | SAE | 3 Contact Lugs | 5.00 | 400/2000 | | | 4,307 |
| 69821 | 85694 | 1 | 24 | | PAR56 | LED Sealed Beam | 11/33 | | | 3 Contact Lugs | 5 | 15000 | | | |
| 19411 | 19556 | 6 | 576 | H5051 | 165mm | Truck- High beam | 12.8 | 50 | SAE | 2 Contact Lugs | 4.80 | 500 | | | 4,307 |
| 19429 | 19558 | 6 | 448 | H5054 | 200mm | Truck-High/Low beam | 12.8/12.8 | 65/42 | SAE | 3 Contact Lugs | 5.44 | 400/2000 | | | 4,307 |
| 19412 | 19557 | 6 | 576 | H5062 | 165mm | Truck-High/Low beam | 12.8/12.8 | 40/55 | SAE | 3 Contact Lugs | 4.80 | 400/2000 | | | 4,307 |
| | 41453 | | 448 | H5360 | 140mm | Tractor Worklight | 12.8 | 38 | 2000 | 2 Right Angle Lugs | 3.00 | 900 | Trapezoidal | | 307 |
| 18525 | | 6 | | H6024 | PAR56 | Headlamp-High/Low beam | 12.8/12.8 | 65/35 | SAE | 3 Contact Lugs | 5.00 | 150/320 | | | 4,307 |
| 28153 | | 6 | | H6024 NH | PAR56 | Headlamp Nighthawk™ | 12.8/12.8 | 65/35 | SAE | 3 Contact Lugs | 5.00 | | | | 307 |
| 97693 | | 6 | | H6024 NHS | PAR56 | Headlamp Nighthawk™ Sport | 12.8/12.8 | 65/35 | SAE | 3 Contact Lugs | 5.00 | | | | 307 |
| 18534 | 11545 | 6 | 448 | H6054 | 200mm | Headlamp-High/Low beam | 12.8/12.8 | 65/35 | SAE | 3 Contact Lugs | 5.44 | 150/320 | | | 4,307 |
| 14752 | | 6 | | H6054HO | 200mm | Headlamp-High/Low beam | 12.8/12.8 | 65/55 | SAE | 3 Contact Lugs | 5.44 | 150/700 | | | 4,307 |
| 25097 | | 6 | | H6054 NH | 200mm | Headlamp Nighthawk™ | 12.8/12.8 | 65/55 | SAE | 3 Contact Lugs | 5.44 | | | | 307 |
| 97692 | | 6 | | H6054 NHS | 200mm | Headlamp Nighthawk™ Sport | 12.8/12.8 | 65/55 | SAE | 3 Contact Lugs | 5.44 | | | | 307 |
| 43561 | 43562 | 12 | 60 | H7550 | PAR36 | Hand Lantern | 6.0 | 8 | 25000 | Screw Terminals | 2.75 | 50 | 3° | 3° | 307 |
| | 23541 | | 60 | H7550-1 | PAR36 | Hand Lantern | 6.0 | 8 | 25000 | Slip-on Terminals | 2.75 | 50 | 3° | 3° | 307 |
| 43564 | 43565 | 12 | 60 | H7551 | PAR36 | Emergency Building Lighting | 6.0 | 8 | 550 | Screw Terminals | 2.75 | 50 | 30° | 20° | 307 |
| 43567 | | 12 | | H7552 | PAR36 | Emergency Building Lighting | 6.0 | 10 | 650 | Screw Terminals | 2.75 | 50 | 30° | 20° | 307 |
| 43570 | 43571 | 12 | 60 | H7553 | PAR36 | Emergency Building Lighting | 6.0 | 12 | 850 | Screw Terminals | 2.75 | 50 | 30° | 20° | 307 |
| | 43574 | | 60 | H7554 | PAR36 | Emergency Building Lighting | 6.0 | 20 | 1400 | Screw Terminals | 2.75 | 50 | 30° | 20° | 307 |
| 44642 | 44643 | 12 | 60 | H7555 | PAR36 | Emergency Building Lighting | 12.0 | 8 | 550 | Screw Terminals | 2.75 | 50 | 30° | 20° | 307 |
| 44924 | 44925 | 12 | 60 | H7556 | PAR36 | Emergency Building Lighting | 6.0 | 6 | 400 | Screw Terminals | 2.75 | 50 | 30° | 20° | 307 |
| 12720 | 12721 | 12 | 60 | H7557 | PAR36 | Emergency Building Lighting | 12.0 | 12 | 850 | Screw Terminals | 2.75 | 50 | 30° | 20° | 307 |
| 42841 | 42842 | 12 | 60 | H7600 | PAR36 | Signal, Rotating Beacon | 12.8 | 38 | 60000 | Screw Terminals | 2.75 | 300 | 9° | 4.5° | 307 |
| 43576 | 43577 | 12 | 60 | H7604 | PAR36 | Very Narrow Spot | 12.8 | 50 | 100000 | Screw Terminals | 2.75 | 100 | 7° | 5° | 307 |
| 14616 | 48580 | 6 | 60 | H7606 | PAR36 | Tractor Flood | 12.8 | 50 | 1000 | Screw Terminals | 2.75 | 400 | 80° | 30° | 4,307 |
| | 17672 | | 60 | H7607 | PAR36 | Tractor Flood | 12.8 | 65 | | Screw Terminals | 2.75 | 600 | Non-symmetrical | | 4,307 |
| 14617 | 43583 | 6 | 24 | H7609 | PAR46 | Tractor Flood | 12.8 | 50 | 2200 | Screw Terminals | 3.75 | 400 | 80° | 20° | 4,307 |
| 14618 | 43586 | 6 | 60 | H7610 | PAR36 | Tractor | 12.8 | 50 | 5200 | Screw Terminals | 2.75 | 400 | Trapezoidal | | 4,307 |
| 49695 | | 12 | | H7612 | PAR46 | Truck Fog | 12.8 | 38 | 15000 | Screw Terminals | 3.75 | 450 | 40° | 7° | 307 |
| 49731 | 49732 | 12 | 60 | H7614 | PAR36 | Wide Flood | 12.8 | 50 | 2000 | Screw Terminals | 2.75 | 100 | 70° | 30° | 307 |
| 42838 | 42839 | 12 | 60 | H7616 | PAR36 | Very Narrow Spot | 12.8 | 38 | 70000 | Screw Terminals | 2.75 | 300 | 7° | 4° | 307 |
| 14619 | 43589 | 6 | 24 | H7619 | PAR46 | Tractor | 12.8 | 50 | 6000 | Screw Terminals | 3.75 | 400 | Trapezoidal | | 4,307 |
| | 45058 | | 24 | H7621-1 | PAR46 | Truck | 12.8 | 50 | | Slip-on Terminals | 3.75 | 200 | 50° | 7° | 4,109,307 |
| 43591 | 43592 | 12 | 24 | H7635 | PAR46 | Very Narrow Spot | 12.8 | 50 | 160000 | Screw Terminals | 3.75 | 100 | 6.5° | 4° | 307 |
| | 18022 | | 24 | H7635X | PAR46 | Spot, Shielded Filament | 12.8 | 50 | 160000 | Screw Terminals | 3.75 | 100 | 6.5° | 4° | 167,307 |
| | 13426 | | 16 | H7921-1 | 165mm | Truck Special Service | 12.8 | 50 | | Slip-on Terminals | 4.53 | 200 | 35° | 5° | 4,109,307 |
| 47460 | 14892 | 6 | 16 | H7935-1 | 165mm | Narrow Spot | 12.8 | 50 | 175000 | Slip-on Terminals | 4.53 | 100 | 6.5° | 3.5° | 307 |
| 15767 | 15763 | 12 | 48 | H9405 | 150mm | Spotlamp | 12.8 | 50 | 100000 | 2 Right Angle Lugs | 3.00 | 100 | 7° | 4° | 307 |
| 15769 | 15768 | 12 | 48 | H9406 | 150mm | Tractor Flood | 12.8 | 50 | 1350 | 2 Right Angle Lugs | 3.00 | 400 | 70° | 30° | 4,307 |
| 15771 | 15770 | 12 | 48 | H9411 | 150mm | Tractor Trapezoidal Beam | 12.8 | 50 | 5400 | 2 Right Angle Lugs | 3.00 | 400 | Trapezoidal | | 4,307 |
| | 15772 | | 48 | H9414 | 150mm | Tractor Flood | 12.8 | 50 | | 2 Right Angle Lugs | 3.00 | 400 | 45° | 20° | 4,307 |

For the most up-to-date product information, see www.gelighting.com.

All footnotes, warning and caution notices found at the end of this section (page 8-34).

Miniature, Sealed Beam and Automotive Lamps

Sealed Beam and Automotive Lamps (continued)

| Product Code | | Quantity | | GE Lamp No. | Bulb | Applications | Volts | Watts | MBCP | Base | MOL (in) | Rated Life (hrs) | Spread to 10% MBCP | | Footnotes, Warning and Caution Notices |
|--------------|-------|----------|------|-------------|-------|------------------------|-------|-------|--------|--------------------|----------|------------------|--------------------|----------|--|
| Unit | Bulk | Unit | Bulk | | | | | | | | | | Horizontal | Vertical | |
| 16484 | 16483 | 12 | 48 | H9415 | 150mm | Truck Fog | 12.8 | 38 | 12000 | 2 Right Angle Lugs | 3.00 | 200 | 45° | 5° | 4,307 |
| 17988 | | 12 | | H9415A | 150mm | Truck Fog, Amber | 12.8 | 38 | | 2 Right Angle Lugs | 3.00 | 200 | 45° | 5° | 4,307 |
| 16976 | 16978 | 12 | 48 | H9420 | 150mm | Truck, Driving | 12.8 | 50 | 47000 | 2 Right Angle Lugs | 3.00 | 200 | 15° | 5° | 4,307 |
| 16482 | 16204 | 12 | 48 | H9421 | 150mm | Truck, Special Service | 12.8 | 50 | 4000 | 2 Right Angle Lugs | 3.00 | 200 | 45° | 8° | 4,109,307 |
| 22109 | | 12 | | Q4509 | PAR36 | Aircraft Landing | 13.0 | 100 | 140000 | Screw Terminals | 2.75 | 100 | 7° | 7° | 301 |
| 37706 | | 12 | | Q4554 | PAR46 | Aircraft Taxiing | 28.0 | 450 | 65000 | Screw Terminals | 2.63 | 100 | 50° | 11° | 301 |
| 40579 | | 12 | | Q4559 | PAR64 | Aircraft Landing | 28.0 | 600 | 600000 | Screw Terminals | 3.75 | 100 | 12° | 8° | 138,301 |
| 42552 | | 12 | | Q4559X | PAR64 | Aircraft Landing | 28.0 | 600 | 765000 | Screw Terminals | 3.75 | 100 | 11° | 7.5° | 139,301 |
| 41097 | | 12 | | Q4566 | PAR46 | Aircraft Logo | 28.0 | 450 | 150000 | Screw Terminals | 3.32 | 1000 | 16° | 12° | 301 |
| 37372 | | 12 | | Q4597 | PAR46 | Aircraft Flood | 28.0 | 450 | 16000 | Screw Terminals | 3.32 | 1000 | 60° | 35° | 301 |
| 34537 | | 12 | | Q4631 | PAR36 | Aircraft Landing | 13.0 | 250 | 80000 | Screw Terminals | 2.75 | 500 | 13° | 12° | 301 |
| 39112 | | 12 | | Q4632 | PAR36 | Aircraft Logo | 13.0 | 250 | 75000 | Screw Terminals | 2.75 | 500 | 14° | 12° | 301 |
| 36271 | | 12 | | Q4681 | PAR46 | Aircraft Landing | 28.0 | 450 | 310000 | Screw Terminals | 2.63 | 50 | 15° | 9° | 301 |
| 41452 | | 12 | | Q5551 | PAR46 | Aircraft Taxiing | 28.0 | 250 | 60000 | Screw Terminals | 3.32 | 100 | 48° | 12° | 301 |
| 16784 | | 12 | | Q5559 | PAR64 | Aircraft Landing | 28.0 | 600 | 650000 | Screw Terminals | 3.75 | 200 | 11° | 7.5° | 138,301 |
| 29130 | 22227 | 12 | 60 | Q7558 | PAR36 | Landscape Lighting | 12.0 | 18 | 365 | Screw Terminals | 2.75 | 5000 | 55° | 45° | 301 |
| 28113 | | 12 | | Q7559 | PAR36 | Landscape Lighting | 12.0 | 18 | 120 | Screw Terminals | 2.75 | 5000 | 70° | 70° | 301 |
| 28111 | | 12 | | Q7560 | PAR36 | Landscape Lighting | 12.0 | 18 | 1900 | Screw Terminals | 2.75 | 5000 | 24° | 23° | 301 |
| 28874 | | 12 | | Q7561 | PAR36 | Landscape Lighting | 12.0 | 18 | 11000 | Screw Terminals | 2.75 | 5000 | 9° | 8° | 301 |

Footnotes

- 1 Special ballast required per ECE R99.
- 2 B3 life, not average life.
- 4 Life at 14 volts.
- 10 Life at 5 volts.
- 11 Filament vertical.
- 12 Average overall length.
- 13 Filament supported.
- 14 This lamp may not be suitable for some uses because of its excessive wattage requirements for the bulb size.
- 15 This lamp may not be suitable for some uses because of its limited mechanical strength.
- 17 Filament shielded.
- 23 Life at 7 volts.
- 32 Designed and rated for operation in supplementary cathode preheat circuits.
- 33 Connections of major and minor filament to base are reversed from those for automotive lamps with Double Contact Index bases. Burn base down to horizontal.
- 44 Life at 6.6 volts.
- 78 ANSI specifies .38" LCL and .63" MOL.
- 79 Life shown is AC voltage only. DC life will be approx. 50% of AC.
- 80 Light output is approx. end foot candles, not spherical MSCP.
- 92 Filament segments parallel.
- 109 Special fixture required for highway use.
- 110 To be used with variable load flasher in applications where bulb outage indication is not required, or with an appropriate fixed load flasher. Flash rate may be altered if used with incorrect fixed load flasher.
- 113 This is a flange seal wire terminal lamp. When unbased lamps such as these are handled and wired into a device, damage can be kept to a minimum by allowing sufficient clearance so that no physical strain or excessive heat is placed on the exhaust tube, exhaust tube tip, or glass seal; by taking care in mounting lamp in equipment so that any material touching the glass is compatible in thermal expansion; and by avoiding excessive tensile strain on the lead wires.
- 116 Life tests are performed on DC voltage only.
- 121 To minimize the possible adverse effects on lamp life due to excessive wattage in relationship to bulb size: Burn Base Down to Base 45° Above Horizontal. Regardless of burning position, this excessive wattage will abnormally decrease light output during lamp life.
- 122 This is a wire terminal lamp. The glass-to-metal seal (and tip where applicable) are susceptible to damage by thermal shock, and soldering or welding within 1/8" of the glass should be avoided as glass cracks and air leaks may develop. Solderability may be adversely affected by storage for an extended period in excess of six months or by storage in a high-humidity environment. Lamps with tinned leads would be subject to these storage restrictions. Nickel-plated leads are not recommended for soldering; however, their ability to be welded is not affected by these storage restrictions.
- 124 .028" metal pins spaced 44mm (.157") apart. GE's two-pin lamps might not be compatible with all G-4 sockets since many sockets do not provide clearance for the exhaust tip.
- 128 Output is minimum 1/4" spot at .100" from bulb top.
- 132 Paint may peel, craze or discolor when subjected to excessive moisture, heat, and freezing in housings with plugged drain holes or which otherwise leak or trap moisture.
- 138 Life Test Conditions: Cycled 5 minutes on, 5 off.
- 139 Life Test Conditions: Cycled 20 minutes on, 20 off.
- 147 Differs from ANSI.
- 160 Filament will generate specified MSCP in a non-shielded bulb.
- 162 Life based on three hours of burning per start. MSCP at 100 hours. Designed and rated for operation in supplementary cathode preheat circuits. Use these lamps with auxiliary equipment specially designed to produce proper electrical values according to established specification. For total load, add auxiliary watts to lamp watts.
- 166 Contact Lugs are angled.
- 167 Filament shielded.

Warning and Caution Notices

301

⚠ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken

⚠ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

302

⚠ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Unexpected lamp rupture may cause injury, fire, or property damage

- Avoid contact with glass during operation
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product

304

⚠ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Lamp emits UV radiation which may cause eye/skin injury

- Avoid exposure of eyes and skin to unshielded lamp

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

⚠ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

For Best Performance

- Limit seal temperature to 350°C
- Maintain 250°C minimum bulb wall temperature
- Remove fingerprints from bulb with grease-free solvent
- Operate at design voltage

305

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Do not use excessive force when installing lamp

306

⚠ WARNING

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

⚠ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

307

⚠ WARNING

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

308

⚠ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

⚠ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

For Best Performance

- Limit seal temperature to 350°C
- Maintain 250°C minimum bulb wall temperature
- Remove fingerprints from bulb with grease-free solvent
- Operate at design voltage

Incandescent

Halogen

High Intensity
Discharge

Fluorescent

Compact
FluorescentLED Lamps,
Tubes and Modules

Stage and Studio

Miniature, Sealed
Beam and Automotive

Projection

Miniature, Sealed Beam and Automotive Lamps

Warning and Caution Notices (continued)

309

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

310

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

Risk of fire

- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed
- Turn power off before installing lamp

Lamp may rupture if used on wrong ballast

- Use only properly rated ballast

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Remove and install by grasping only plastic portion of the lamp
- Do not use excessive force when installing lamp

INSTRUCTIONS

FDA Warning

WARNING – This lamp can cause serious skin burn and eye inflammation from short-wave ultraviolet radiation if outer envelope of the lamp is broken or punctured and the arc tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available. 21 CFR 1040.30.

Hg – LAMP CONTAINS MERCURY

Manage in Accord with Disposal Laws

See: www.lamprecycle.org or 1-800-435-4448

Lamp should be installed by an automotive service specialist.

Projection Lamps

Lamp Locator 9-2

Base Identification 9-2

Light Center Length..... 9-2

Filament Identification 9-3

Introduction 9-3

Warning and Caution Notices Information 9-3

Important Notice 9-3

General Information..... 9-4

GE Multi-Mirror® Quartzline® Projection Lamps 9-4

Section Headings 9-5

Quartzline® Multi-Mirror® Reflectors

MR-16 Faceted Dichroic Reflector, 2" Diameter (51mm)..... 9-6

Quartzline® Single-Ended

Applications: Projection, Microfilm, Studio, Etc. 9-6

Quartzline® Single-Ended – Amp Rated 9-6

Quartzline® Double-Ended Projection..... 9-6

Incandescent Projection

Double Contact Bayonet Base, ANSI Base Designation: BA15D..... 9-6

Photoflood

Reflector 9-6

Footnotes 9-7

Warning and Caution Notices 9-7

ANSI-Coded GE Projection Lamps Index 9-7

Incandescent

Halogen

High Intensity Discharge

Fluorescent

Compact Fluorescent

LED Lamps, Tubes and Modules

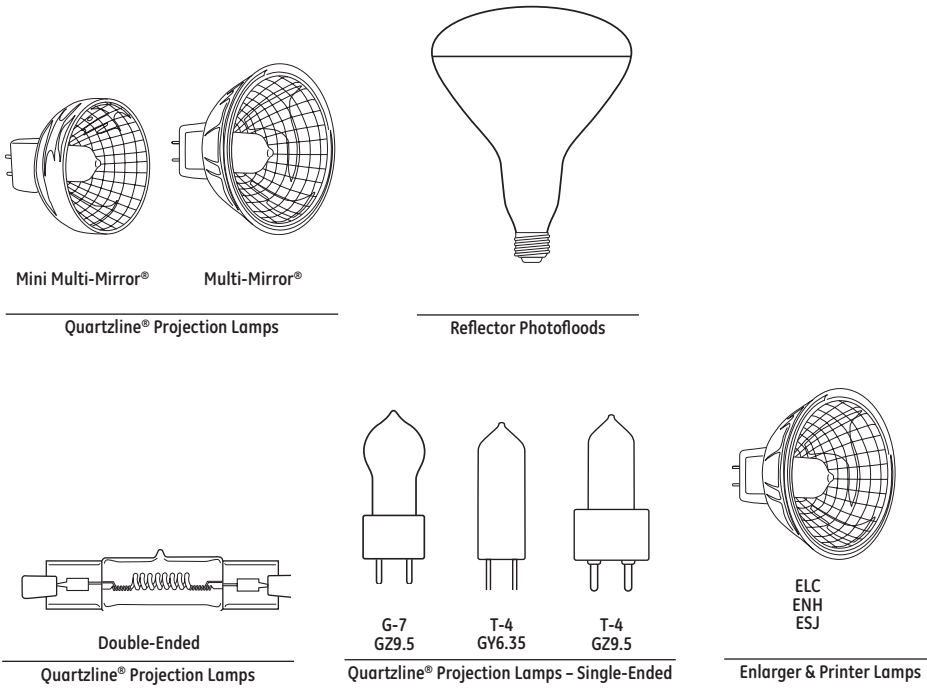
Stage and Studio

Miniature, Sealed Beams and Automotive

Projection

Projection Lamps

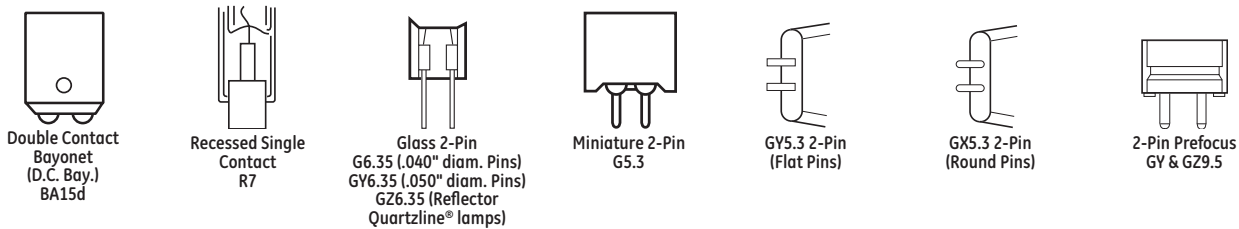
Lamp Locator



Base Identification

Typical bases used on Projection lamps in this catalog are shown below along with their names and common abbreviations. Where the base is an ANSI standard type, the ANSI reference code (which is the same as the IEC base code) is also shown. ANSI reference codes

conform to American National Standard C81.10, C81.30, C81.50 specifications for electric lamp bases and lampholders. Illustrations are not to scale.



Light Center Length (LCL)

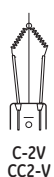
Light center length is the distance from the center of the light source to the point indicated below for the lamp base used. It is a measurement to which the lamp is designed and is subject to the manufacturer's tolerances.

| Base Type | LCL Reference |
|-----------------|------------------------|
| D.C. Bayonet | Top of base pins |
| 2-Pin Prefocus | Bottom of base ceramic |
| Miniature 2-Pin | Bottom of base pins |
| Glass 2-Pin | Bottom of base pins |

Filament Identification

The configuration of the filament in all tungsten filament lamps (including Quartzline®) is identified by a prefix letter and a suffix number. The prefix letter indicates whether the filament wire is a

single coil (C) or a coiled coil (CC). The suffix number indicates the form or arrangement of the filament coil or coils on its support structure. Illustrations are not to scale.



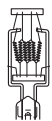
C-2V
CC2-V



C-9



2C-8
2CC-8



C-13



C-13D



C-6 Oval



C-6
CC-6



C-8
CC-8

Introduction

General Electric Projection Lamps are designed for a wide variety of applications...and now extending well beyond the original picture-taking and audio-visual projection uses into such fields as: fiber optical systems, graphic arts, video camera lights, airport runway markers, micrographics, photo printers and enlargers, medical/scientific instruments and many others.

The information contained in this section is designed to provide end-users, equipment manufacturers and lamp distributors and dealers with:

- Essential technical data on GE Projection Lamps (Quartzline®, Incandescent and Photoflood)
- Suggested substitutes for improved performance or discontinued lamps

The majority of Projection Lamps described herein are characterized by:

- Precisely manufactured, tailored filaments maximizing source brightness, optimum performance in precision optical devices

- High light-generating efficacy (lumens per watt)...to help minimize power requirements and heat generation
- Prefocus type bases, or rim-reference mounting for Multi-Mirror® lamps...to position the filament accurately in relation to the associated optics
- Design life Rated Life (per ANSI Standard)
- Lamps with internal or external reflectors (as in Multi-Mirror® and some 4-pin projection lamps) permitting high-efficiency illumination system designs with a minimum of additional optical control elements

Manufacturers and designers of equipment requiring lamps should select lamps of established design whenever possible for maximum economy, as well as for ease of replacement by their customers through regular trade channels. General Electric offers application engineering assistance to all customers for applying lamps in product design. Contact your local GE Lamp Representative for additional information or assistance.

Warning and Caution Notices Information

As with any product, certain precautions should be observed in the handling and use of GE Projection Lamps to provide optimum

performance and safety. These are given in the Caution Notices that are printed on page 9-7.

Important Notice

This catalog contains accumulated data to March 2008. Additional information is constantly being uncovered through research and testing, which may modify the data given herein. This is particularly true of newer lamps. For the latest lamp design data and information, contact your General Electric Lamp Representative.

The data and suggested applications contained in this catalog, as well as any additional information our representative may be able to furnish, are for general information only and are not intended and should not be taken as representations or warranties as to the suitability of a lamp for any particular application or use in any particular equipment, nor are our representatives authorized to make any such representations or give any such warranties.

Applications and conditions of use are many and varied, and beyond our control. We cannot possibly have the same degree of knowledge that the purchaser has with respect to the design of his equipment and the conditions of its use. Therefore, it is up to the purchaser to make its own determination as to the suitability of a lamp for his intended application or use and to assume the responsibility for that determination.

General Electric desires to supply the best possible products at all times. For this reason, General Electric reserves the right to make changes in its products when it believes such changes will improve its products.

Projection Lamps

General Information

General Electric Projection Lamps are briefly described in the ANSI lamp index (page 9-7). More extensive descriptive and performance data are found in the lamp tables, which are organized as "families" of lamps with one or more features in common – such

as Multi-Mirror® Quartzline®, Single-Ended Quartzline®, 4-Pin Based Incandescent, Photoflood, etc. Within each table, lamps are listed alphabetically by GE Lamp Code.

GE Multi-Mirror® Quartzline® Projection Lamps

Invented By GE For Optimized Projection System Performance, the Multi-Mirror® and its new companion, the Mini Multi-Mirror®, are reflector halogen Quartzline® lamps with innovative GE features that

result in better system efficiency, screen uniformity, lamp-to-lamp consistency and relamping convenience.

| Feature | Benefit | Applications |
|---|--|---|
| <ul style="list-style-type: none"> Dichroic reflector | <ul style="list-style-type: none"> Cool light beam Efficient light reflection | <ul style="list-style-type: none"> Slide Projection Front/Rear Screen Projection |
| <ul style="list-style-type: none"> Precise rim reference Accurate snap-in alignment | <ul style="list-style-type: none"> Quick lamp installation | <ul style="list-style-type: none"> Microfilm Overhead Projection |
| <ul style="list-style-type: none"> Faceted reflector | <ul style="list-style-type: none"> Efficient beam for brighter image Uniform screen image Precision beam control | <ul style="list-style-type: none"> 16mm Movie 8mm Movie Film Strip |
| <ul style="list-style-type: none"> Halogen Quartzline® lamp | <ul style="list-style-type: none"> Whiter and brighter light No bulb blackening/blistering Constant light output through life Stable color temperature | <ul style="list-style-type: none"> Enlargers/Printers Fiber Optics Medical/Scientific Instruments Video Camera Lights Airport Runways Display |

Each GE Multi-Mirror® lamp type is optically tailored to its application. First, the appropriate type of multi-faceted reflector is determined. Then a filament tube developed, using advanced

Quartzline® technology. Finally, the two are combined, using sophisticated, computerized precision-assembly techniques. The result – consistently high performance...lamp after lamp after lamp.

Headings in this catalog section

The following terms and descriptions can help you when checking Projection lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families, lamps are listed by ANSI code.

Bulb Shape:

Projection Lamp bulb designations use a combination of letters and numerals to indicate bulb shape and maximum diameter in eighths of an inch. For example: a "T12" bulb is Tubular-shaped and twelve-eighths of an inch, or 1-1/2" in diameter. Illustrations of typical Projector Lamps and their respective bulb designations are shown in the tables of lamp families, pages 9-2.

Base:

Projection Lamp base illustrations appear on page 9-2, along with their common trade names and abbreviations, plus their letter-number ANSI/IEC designations where applicable.

Watts (or Amps):

This column shows the rated power consumption (watts) of the lamp at its design voltage. A few lamps, in Table 5, are rated in terms of current (amperes) drawn initially at their rated voltage. The watts shown for the lamps in Table 5 are the approximate initial values for operation at rated amperes.

Order Code:

It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

Description:

This is a 3-letter or letter-number code uniquely identifying the lamp for ordering purposes. In some instances, lamps with 3-letter (ANSI) codes are offered in more than one design voltage, in which case the voltage required should also be specified when ordering.

Volts:

The voltage shown is the design voltage of the lamp, on which the life and wattage ratings are based. Lamps are available only in the design voltages shown. When ordering lamps listed for more than one voltage, be sure to specify the voltage required (supply voltage variation can significantly affect lamp life).

Case Quantity:

Number of product units packed in a case.

Filament Design:

Typical filament configurations for Projection Lamps are shown on page 9-3, along with an explanation of the filament designation system.

Maximum Overall Length (MOL):

This dimension includes the lamp bulb and all rigid parts of the base. Since the listed lengths include maximum tolerances, actual lamps are generally slightly shorter.

Light Center Length (LCL):

This dimension defines the location of the filament in relation to the base. It is measured from the geometric center of the filament to a specified point on, or plane through, the base. Light Center Length is subject to manufacturing tolerances. Reference points/planes from which LCL is measured are tabulated on page 9-2 for the various styles of lamp bases.

Rated Life:

Life ratings of Projection Lamps are based on closely controlled laboratory tests of lamps, at their rated voltage, over a long period of production time. Rated Life is not necessarily the same as service life; mechanical shock and vibration, voltage fluctuation, temperature and other environmental factors may result in shorter service life. As with any median value, some individual lamps will operate longer and some will operate shorter, than their Rated Life (supply voltage variation can significantly affect lamp life).

Initial Lumens:

The value shown is based on spherical photometry, at rated voltage, of lamps that have been seasoned for approximately 15% (or minimum of 2 hours) or more of their rated average life.

Color Temperature:

The radiation within the visible spectrum from tungsten filament lamps is similar in spectral distribution to that from a "blackbody" at specific color temperatures. The Color Temperatures shown are approximate initial values in degrees Kelvin (K) for lamps operated at rated voltage.

CBCP (Center Beam Candlepower):

For reflector type lamps, Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam.

Operating Position:

For good performance, lamps must be used within specified limitations on operating position. The following abbreviations are used in the lamp tables to indicate these limits:
 BD = Base Down. Operate only vertical, base down.
 HD = Base Down to Horizontal. Do not operate base above horizontal.
 H22 = Operate base down to 22° base up.
 U = Operate in any position.

Warning and Caution/Footnote:

See page 9-7 for explanation.

Additional Information:

Typical application and/or other important information.

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Initial Lumens | Color Temp K | CBCP | Burn Position | Additional Information | Warning and Caution/Footnote | Typical Working Distance | Source Size (W x H) |
|------------|------|-------|------------|-------------|-------|----------|-----------------|----------|----------|------------------|----------------|--------------|------|---------------|------------------------|------------------------------|--------------------------|---------------------|
|------------|------|-------|------------|-------------|-------|----------|-----------------|----------|----------|------------------|----------------|--------------|------|---------------|------------------------|------------------------------|--------------------------|---------------------|

Quartzline® Multi-Mirror® Reflectors

MR-11 Faceted Dichroic Reflector, 1-3/8" Diameter (35mm), Table 1.

| | | | | | | | | | | | | | | | | | | |
|------|-----------|----|-------|-----|----|----|------|------|--|------|--|------|--|----|-----------|--|---|--|
| MR11 | G24 2-Pin | 28 | 30894 | FLS | 12 | 10 | CC-6 | 1.38 | | 1000 | | 3000 | | HD | Microfilm | | A | |
|------|-----------|----|-------|-----|----|----|------|------|--|------|--|------|--|----|-----------|--|---|--|



Projection Lamps

| Bulb Shape | Base | Watts | Order Code | Description | Volts | Case Qty | Filament Design | MOL (in) | LCL (in) | Rated Life (hrs) | Lumens Initial | Color Temp K | CBCP | Burn Position | Additional Information | Warning and Caution/ Footnote | Typical Working Distance | Source Size (W x H) | |
|--|----------------|-------|------------|-------------|-------|----------|-----------------|----------|----------|------------------|----------------|--------------|-------|---------------|------------------------|--------------------------------|--------------------------|---------------------|-----------|
| Quartzline® Multi-Mirror® Reflectors | | | | | | | | | | | | | | | | | | | |
| MR-16 Faceted Dichroic Reflector, 2" Diameter (51mm) | | | | | | | | | | | | | | | | | | | |
| MR16 | GX5.3 2-Pin | 150 | 43537 | DDL | 20 | 20 | C-6 | 1.75 | | 500 | | 3150 | | HD | Microfilm | A | 7.75 | | |
| | | 85 | 43950 | DED | 13.8 | 20 | | C-6 | 1.75 | | 1000 | | 3150 | | HD | Microfilm | A | 6.50 | |
| | GX5.3 2-Pin | 150 | 35200 | EKE | 21 | 20 | | CC-6 | 1.75 | | 250 | | 3250 | | HD | 8mm Projection, Fiber Optics | A | 1.75 | |
| | | 250 | 37462 | ELC | 24 | 20 | | CC-6 | 1.75 | | 50 | | 3400 | | HD | Fiber Optics, Color Printer | A | 1.25 | |
| | GX5.3 2-Pin | 250 | 15377 | ELC/500 | 24 | 20 | | CC-6 | 1.75 | | 500 | | 3350 | | HD | Fiber Optics, Disco | A | 1.25 | |
| | | 50 | 25475 | ENL | 12 | 20 | | C-6 | 1.75 | | 4000 | | 3050 | | HD | Fiber Optics, Display Lighting | A | 1.50 | |
| | GY5.3 2-Pin | 360 | 41705 | ENX | 82 | 20 | | CC-8 | 1.75 | | 75 | | 3300 | | HD | Overhead Projection | A | 11.75 | |
| | | | 19475 | ENX-5 | 86 | 20 | | CC-8 | 1.75 | | 75 | | 3300 | | HD | Overhead Projection | A | | |
| | GX5.3 2-Pin | 42 | 41729 | EPT | 10.8 | 20 | | C-6 | 1.75 | | | 10000 | | 2900 | HD | Fiber Optics | A | 1.50 | |
| | GX5.3 2-Pin | 50 | 14887 | FML | 13.8 | 20 | | CC-6 | 1.75 | | 1000 | | 3150 | | HD | Microfilm | A | 8.44 | |
| GY5.3 2-Pin | 410 | 21613 | FXL | 82 | 20 | | CC-8 | 1.75 | | 38 | | 3300 | | HD | Overhead Projection | A | 11.75 | | |
| Quartzline® Single-Ended | | | | | | | | | | | | | | | | | | | |
| Applications: Projection, Microfilm, Studio, Etc. | | | | | | | | | | | | | | | | | | | |
| G7 | G29.5 2-Pin Pf | 650 | 33250 | DYR | 240 | 24 | 2CC-8 | 2.50 | 1.44 | 50 | 16500 | 3200 | | U | | A | | .45 x .45 | |
| | | 600 | 32955 | DYS/DYV/BHC | 120 | 24 | | CC-6 | 2.50 | 1.44 | 75 | 17000 | 3200 | | HD | | A | | .50 x .25 |
| T3.5 | G5.3 2-Pin | 30 | 37346 | DZA | 10.8 | 24 | C-6 | 2.00 | 1.06 | 400 | 530 | 3100 | | HD | | A | | .15 x .05 | |
| T4 | G6.35 2-Pin | 250 | 14874 | EHJ | 24 | 100 | C-6 Oval | 2.25 | 1.31 | 50 | 8000 | 3400 | | HD | | A | | .30 x .15 | |
| T3.5 | G5.3 2-Pin | 360 | 12696 | EVB | 82 | 24 | CC-8 | 2.25 | 1.25 | 75 | 10000 | 3300 | | HD | | A | | | |
| T3 | GY6.35 2-Pin | 100 | 14876 | FCR | 12 | 100 | C-6 Oval | 1.75 | 1.18 | 50 | 2800 | 3300 | | HD | | A | | | |
| T4 | G6.35 2-Pin | 150 | 13598 | FCS | 24 | 100 | C-6 Oval | 2.00 | 1.18 | 50 | 4500 | 3300 | | HD | | A | | | |
| T3 | G29.5 2-Pin Pf | 100 | 35321 | FDT | 12 | 24 | C-6 Oval | 2.12 | 1.06 | 50 | 2900 | 3300 | | HD | | A | | | |
| T4 | G6.35 2-Pin | 150 | 36878 | FDV | 24 | 24 | C-6 Oval | 2.00 | 1.19 | 100 | 4300 | 3050 | | U | | A | | | |
| Quartzline® Single-Ended - Amp Rated | | | | | | | | | | | | | | | | | | | |
| T4 | G29.5 2-Pin | 120 | 10099 | EWV | 6.6A | 24 | C-6 Oval | 2.50 | 1.54 | 500 | 3150 | 3200 | | BD | Airport | A | | | |
| | | 150 | 11427 | EWR | 6.6A | 24 | | C-6 Oval | 2.50 | 1.54 | 500 | 4100 | 3200 | | BD | Airport | A | | |
| T3.5 | G29.5 2-Pin | 30 | 11478 | EXL | 6.6A | 24 | C-8 | 1.75 | 1.00 | 1000 | 375 | 2900 | | HD | Airport | A | | | |
| | | 45 | 11482 | EXM | 6.6A | 24 | | C-8 | 1.75 | 1.00 | 1000 | 750 | 2950 | | HD | Airport | A | | |
| T4 | G29.5 2-Pin | 200 | 15243 | EZL | 6.6A | 24 | C-6 Oval | 2.50 | 1.54 | 500 | 5000 | 3100 | | BD | Airport | A | | | |
| Quartzline® Double-Ended Projection | | | | | | | | | | | | | | | | | | | |
| T5 | R7s | 1000 | 38311 | ETT | 120 | 24 | CC-8 | 3.75 | | 70 | | 3350 | | U | Spec. (PH1000H) | A | | | |
| Incandescent Projection | | | | | | | | | | | | | | | | | | | |
| Double Contact Bayonet Base, ANSI Base Designation: BA15D | | | | | | | | | | | | | | | | | | | |
| T8 | D. C. Bay. | 50 | 29171 | CAX | 118 | 24 | CC-2V | 3.13 | 1.38 | 50 | 775 | 2875 | | BD | Optical Projection | | | | |
| | | 50 | 29169 | CAX | 130 | 24 | | CC-2V | 3.13 | 1.38 | 50 | 775 | 2875 | | BD | Optical Projection | | | |
| Photoflood | | | | | | | | | | | | | | | | | | | |
| Reflector | | | | | | | | | | | | | | | | | | | |
| R40 | Medium | 500 | 30151 | DXB | 120 | 24 | CC-2V | 6.63 | | 6 | | 3300 | 45000 | | Spot Beam, 15 Degrees | A, Q | | | |

Footnotes

Q Approximate beam spread to 1/2 center-beam intensity.

Warning and Caution Notices

A

⚠ Warning

Risk of electrical shock

- Turn power off before inspection, installation or removal

Risk of fire

- Keep combustible material away from lamp
- Use in enclosed fixtures rated for this product

Pressurized lamp – unexpected rupture may cause injury, fire, or property damage

- Do not exceed 110% of rated voltage
- Avoid direct water/liquid contact
- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken

Caution

⚠ Risk of burn

- Allow lamp/fixture to cool before handling
- Turn off power before installing lamp

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in enclosed container

ANSI Coded GE Projection Lamps Index

| Order Code | Description | Watts | Volts | Bulb Shape | Base | Page No. |
|--|-------------|-------|-------|------------|----------------|----------|
| BHC USE DYS/DYV/BHC | | | | | | |
| 29171 | CAX | 50 | 118 | T8 | D. C. Bay. | 9-6 |
| 29169 | CAX | 50 | 130 | T8 | D. C. Bay. | 9-6 |
| DAB USE CZX/DAB DAK USE DAT/DAK | | | | | | |
| 43537 | DDL | 150 | 20 | MR16 | GX5.3 2-Pin | 9-6 |
| 43950 | DED | 85 | 13.8 | MR16 | GX5.3 2-Pin | 9-6 |
| DLG USE DLS/DLG/DHX | | | | | | |
| 30151 | DXB | 500 | 120 | R40 | Medium | 9-6 |
| 33250 | DYR | 650 | 240 | G7 | GZ9.5 2-Pin Pf | 9-6 |
| 32955 | DYS/DYV/BHC | 600 | 120 | G7 | GZ9.5 2-Pin Pf | 9-6 |
| DYV USE DYS/DYV/BHC | | | | | | |
| 37346 | DZA | 30 | 10.8 | T3.5 | G5.3 2-Pin | 9-6 |
| 14874 | EHJ | 250 | 24 | T4 | G6.35 2-Pin | 9-6 |
| EJN USE ELD/EJN | | | | | | |
| 35200 | EKE | 150 | 21 | MR16 | GX5.3 2-Pin | 9-6 |
| EKS USE EMM/EKS | | | | | | |
| 37462 | ELC | 250 | 24 | MR16 | GX5.3 2-Pin | 9-6 |
| 15377 | ELC/500 | 250 | 24 | MR16 | GX5.3 2-Pin | 9-6 |
| ENA USE EKP/ENA ENC USE ENW/ENC | | | | | | |
| 25475 | ENL | 50 | 12 | MR16 | GX5.3 2-Pin | 9-6 |
| 41705 | ENX | 360 | 82 | MR16 | GY5.3 2-Pin | 9-6 |
| 19475 | ENX-5 | 360 | 86 | MR16 | GY5.3 2-Pin | 9-6 |
| 41729 | EPT | 42 | 10.8 | MR16 | GX5.3 2-Pin | 9-6 |
| 38311 | ETT | 1000 | 120 | T5 | R7s | 9-6 |
| 10099 | EVV | 120 | 6.6A | T4 | GZ9.5 2-Pin | 9-6 |
| 11427 | EWR | 150 | 6.6A | T4 | GZ9.5 2-Pin | 9-6 |
| 11478 | EXL | 30 | 6.6A | T3.5 | GZ9.5 2-Pin | 9-6 |
| 11482 | EXM | 45 | 6.6A | T3.5 | GZ9.5 2-Pin | 9-6 |
| 12696 | EVB | 360 | 82 | T3.5 | G5.3 2-Pin | 9-6 |
| EZJ USE EZF/EZJ | | | | | | |
| 15243 | EZL | 200 | 6.6A | T4 | GZ9.5 2-Pin | 9-6 |
| FBD USE FBG/FBD | | | | | | |
| 14876 | FCR | 100 | 12 | T3 | GY6.35 2-Pin | 9-6 |
| 13598 | FCS | 150 | 24 | T4 | G6.35 2-Pin | 9-6 |
| FDS USE DZE/FDS | | | | | | |
| 35321 | FDT | 100 | 12 | T3 | GZ9.5 2-Pin Pf | 9-6 |
| 36878 | FDV | 150 | 24 | T4 | G6.35 2-Pin | 9-6 |
| FKT USE EVH/FKT | | | | | | |
| 14887 | FML | 50 | 13.8 | MR16 | GX5.3 2-Pin | 9-6 |
| 21613 | FXL | 410 | 82 | MR16 | GY5.3 2-Pin | 9-6 |

Table of Contents

T8 Instant Start Ballasts

Understanding the New Fluorescent Ballast Rule, EPCA 10 CFR 430 10-2

Understanding T8 Fluorescent Ballasts 10-3

Understanding Fluorescent Systems 10-4

Fluorescent Ballast Application Notes 10-5

UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency
 For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps 10-7
 For 46 – 59W 4 ft–8 ft Slimline Lamps 10-23

UltraMax® Professional Series MultiVolt High Output 120–277V
 For 44-86W 4ft-8ft HO Lamps 10-25

UltraMax® Professional Series 347V High-Efficiency 10-26

UltraMax® Professional Series 480V High-Efficiency 10-36

UltraMax® General Series T8 Multi-Voltage 120–277V
 For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps 10-39
 For 46 – 59W 4 ft–8 ft Slimline Lamps 10-49

UltraMax® General Series 347V Instant Start High Performance 10-51

ProLine® T8 Instant-Start 120V and 277V High-Performance
 For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamp 10-56
 For 46 – 59W 4 ft–8 ft Slimline Lamps 10-57

Residential Grade ProLine® T8 120V
 For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps 10-58

Electromagnetic T8 120V and 277V Ballasts
 For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps 10-60

Wiring Diagrams 10-61

Case Dimensions 10-62



Understanding the New Fluorescent Ballast Rule, EPCA 10 CFR 430



In 2008 Congress began the Rulemaking for Fluorescent Ballasts, and as it is a 3-year process, the New Rule was completed in November 2011, and will come into effect in November of 2014. The current rule covered only the Federally Regulated T12 lamp ballast for 4-foot and 8-foot T12 lamps and was based on Ballast Efficacy Factor (BEF) as the performance metric. The BEF measurement is a complicated photometric process with many opportunities for error in the measurements. In order to improve the accuracy of the rating process, a new metric was developed, Ballast Luminous Efficiency (BLE), a purely electrical measurement without the error prone photometric measurements.

The New Rule also expands the number and types of ballasts that will be under Federal Regulation. Currently, until November 2014, only the T12 types mentioned are under Regulation. In November 2014, many more types of ballasts will be under Regulation, including most T8 and T5 ballasts. Sign and Residential ballasts are also included in the New Rule. Ballast manufacturers are required to report the performance of these ballast types to the Department of Energy and certify that they meet the BLE requirements for the specific ballast types.

The test plan for the BLE metric measurement is based on the ballast operating a known lamp load. The total discharge or output power is measured and applied to an equation for the specific ballast type. The equation provides the minimum performance limit. The ratio of the output power divided by the input power defines the ballast efficiency, and the ballast efficiency must be greater than the calculated limit for the ballast to be compliant.

One other change that is coming is a new way to determine Ballast Factor, or the light output level of the ballast. The present way is a photometric ratio measurement requiring a controlled environment and reference ballasts and lamps. In the new method, a purely electrical measurement, the output the average output power for one lamp is compared to an Industry Standard (ANSI) rated lamp power. The ballast factor is simply the ratio of the measured power divided by the ANSI rated power.

The familiar BEF value can be calculated as it always has been, dividing the Ballast Factor by the input power. However, an existing BEF cannot be “back calculated” to arrive at an input wattage or ballast factor.

The increased performance requirements of the New Rule will cause some ballasts to be taken off the market. Many GE ballasts already meet the new 2014 requirements and will continue to be available for sale as the Rule becomes effective.

Understanding T8 Fluorescent Ballasts

A comprehensive range of solutions...from GE, the name you trust.

GE introduced the first fluorescent ballast more than 60 years ago. Today we are providing high-frequency electronic ballasts for almost every fluorescent application.

With our UltraMax® and UltraStart® ballasts, we are bringing you the future in ballast performance.

GE revolutionizes lighting again with breakthrough technology. Our patented UltraMax® instant-start and UltraStart® programmed start electronic ballasts transform the power of light into efficiency and savings from store shelves to the installation site. The foundation of the "Ultra" family of ballasts starts with its high efficiency ratings. High efficiency ballasts are a minimum of 90% efficiency with some ballasts nearly 95% efficient which means the ballast only consumes 5-10% of the total system power. These high efficiency ballasts exceed minimum high efficiency standards as established by almost all energy advocate groups, utility rebate programs and the NEMA Premium® ballast program. The ballasts are marked with the Ultra brand as well as the NEMA Premium® ballast mark. These ballasts have multi-voltage control (MVC), which automatically adjusts to handle voltage from 120V through 277V. That cuts the ballast models you need to stock from 40 down to 13, which can dramatically reduce inventory carrying costs. UltraMax® ballasts have ArcGuard Protection, too, with a UL Type CC Anti-Arc Rating. Plus, they're ultra-lamp-friendly, with a low lamp current crest factor of 1.4 for optimal lamp performance. Both UltraMax® and UltraStart® have anti-striation control for better light quality with no lamp striations (spiraling). And the small, low-profile design of these ballasts makes retrofits effortless at the job site. Also unique to our programmed start UltraStart® ballasts is parallel lamp operation which means that if one lamp fails the others remain on, and quick starting times of less than 700 milliseconds which is necessary in avoiding delays with automatic sensors.

GE Fluorescent Ballast Types

Electronic Instant Start

The most common fluorescent ballast is the instant start and is used typically in long 3 to 10-hour lamp cycle applications. These ballasts are energy efficient and can deliver 20% to 40% energy savings when installed with energy-efficient lamps in building retrofits. These ballasts deliver >550 open circuit volts when starting lamps and operate lamps at high frequencies which offers flicker-free operation and better lamp efficiencies. The ballasts are significantly quieter than conventional magnetic ballasts and are backed by GE's ultra system 5-year ballast limited warranty and extended lamp warranties.

UltraMax® Professional Series

A family of high-efficiency GE T8 instant-start electronic linear fluorescent ballasts designed to optimize GE's T8 Ultra lamps for optimal system energy savings. UltraMax® ballasts have a low lamp current crest factor and virtually "read" and adapt to incoming voltage from 108V to 305V. Other features include UL Type CC Anti-Arc Rating and anti-striation control to eliminate lamp striations and spiraling. These ballasts are offered in ballast factors: low wattage (.77), normal light (.87), normal-high (N+) (1.0) and high (>1.15).

UltraMax® General Series

Offered in dedicated or multi-volt (120-277V), these high-performance T8 instant-start ballasts also meet minimum efficiency requirements as established with the NEMA Premium® ballast program. These ballasts are offered in ballast factors: low wattage (.77), normal light (.87), and high (>1.15).

Programmed Start

Programmed Start electronic ballasts have a lamp starting method that preheats lamp filaments before applying an open circuit voltage (OCV) to start the lamp. Use Programmed Start ballasts to ensure long lamp life when turning lamps on and off more than five times in a day or in conjunction with any automatic light control or sensor. This type of starting circuit keeps lamp-end blackening to a minimum and improves lamp life performance, especially in applications where the lamps are frequently switched on and off.

UltraStart®

UltraStart® is a family of high-efficiency GE Programmed Start electronic linear fluorescent ballasts that also exceed NEMA Premium® ballast efficiency requirements but are designed to optimize GE's T8 Ultra lamps in frequently switched applications. Instant start ballasts provide 7,000-13,000 starts before 50% lamp failure. UltraStart® provides greater than 100,000 starts before 50% lamp failure. UltraStart® ballasts provide the same energy savings and convenience of instant start ballasts but with the longer lamp life offered a programmed start ballast. These ballasts are offered in ballast factors: programmed start x-low wattage (XL) (.60), low wattage (.71), normal light (.87), and high (>1.15).

Ballast Date Codes

Date Codes

GE electronic ballast manufacturing date codes are located on the upper right-hand corner of the label. The code lists the month, year and day of manufacture. A typical code is C16-073, where the month is listed as A (January), B (February), C (March) as in this code followed by the year 16 (2016) and the date of manufacture 073 (the 73rd day of 2016).

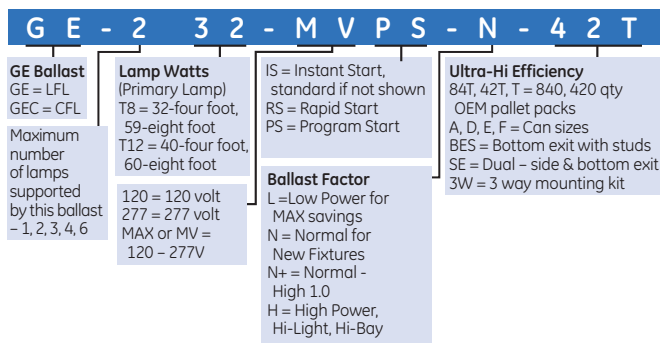
Ballast Life

GE electronic ballasts are designed and manufactured to an average life expectancy of 60,000 hours of operation at maximum rated case temperatures. As a rule of thumb, ballast life is doubled for every 10C reduction in ballast case temperature. However there are other variables such as transients, voltage sags and swells, ambient temperature, etc., which affect ballast life as well.

Instant Start vs. Rapid Start Sockets

When using programmed start or dimming ballasts in fixtures, sockets must be 2-pin rapid start type. Fixtures with T8 instant start ballasts must use jumpered rapid start sockets or shunted lamp holders (internal to the lamp holder) that bridge the lamp bi-pins together into one contact on each side of the lamp. If retrofitting from a instant start ballast fixture with shunted sockets to a dimming or programmed start ballast, rapid start type sockets must be used to properly start lamps and maintain rated lamp life.

GE Ballast Electronic nomenclature



Understanding Fluorescent Systems

GE introduced the first practical fluorescent lamp in 1938. All fluorescent lamps operate on electrical control gear called a ballast. Today, electronic ballasts have continued to replace the magnetic designs that were common previously. The 4-foot T8 lamp on an electronic ballast is the most common system. The generic version of this lamp is called the F32T8 and in recent years, energy saving reduced wattage lamps like the F28T8 and the F32T8/25W have become popular. These lamps typically operate on Instant Start (IS) or Programmed Rapid Start (PRS) ballasts and both types of ballasts are available in a variety of ballast factors ranging from 0.60 to 1.18.

Ballast Factor

The F32T8 lamp has a "nominal" wattage of 32 watts. Nominal means "in name only" because there are no ballasts commercially available that will operate this lamp at 32 watts! The "N" or "Normal" ballast factor ballast operates this at around 26 watts while the "L" operates the lamp around 23 watts; the "N+" operates it around 29 watts and the "H" around 34 watts. Electronic ballasts operate lamps at high frequencies of greater than 20 kHz, which results in more efficient lamp operation than at 60 kHz, like the magnetic ballasts they replace. This results in a lamp that is more efficient than the 32 nominal watts.

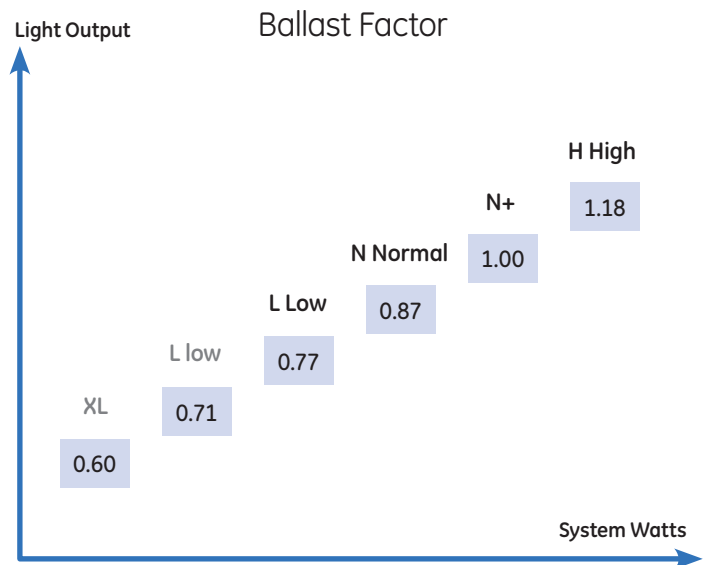
Unlike HID lamps and Incandescent/Halogen lamps which are designed for optimum performance at a specific wattage, linear fluorescent lamps can be operated over a reasonably wide range without sacrificing performance, such as life or efficacy. Therefore, there is no "optimum" wattage for a lamp, only a range. The F32T8 lamp can produce between 60% to 118% of its catalog lumens when operated on a ballast with a ballast factor of 0.60 to 1.18. The higher the operating wattage, the higher the lumen output within this range.

Consumers have a choice among ballasts, depending on how much light they desire from the lamp and how much energy they are trying to save. The ballast specification from the ballast manufacturer provides the "input wattage" of the ballast. A two lamp electronic ballast with input watts of 56 watts (BF of 0.88) is using 56 watts of power to operate 2 lamps--typically 26 watts in each lamp and 4 watts in the ballast. In contrast, a ballast with BF of 1.18 will consume 76 watts but also produce more light.

An engineer or designer will choose a high BF when trying to "squeeze" as much light as possible from the lamp, e.g. in high-bay applications or when they are trying to reduce the number of lamps used in the area. A lower BF reduces the light output and wattage of each lamp, so that more lamps (and more fixtures) are needed to achieve a certain footcandle level in the same area. Of course more fixtures also means closer spacing and more uniform lighting.

It must be noted that ballast factor (and any measure involving BF) requires a measurement of lamp lumens and is, therefore, not a pure electrical measurement. The uncertainty and variation associated with individual lamp performance is present in these measures.

$$\text{Actual Light Output of Lamp} = (\text{Catalog Lumens}) \times (\text{Ballast Factor})$$



Instant Start and Programmed Rapid Start Ballasts

There are two major families of ballasts. While the current limiting function is the same, these ballasts differ in how they start the lamp.

Instant Start (IS) Ballasts apply a relatively high voltage (e.g. 550 volts) to get the discharge going and the lamp starts instantaneously. (GE's UltraMax® family)

Programmed Rapid Start (PRS) Ballasts provide a gentler start through cathode heating prior to application of starting voltage, and are particularly useful when lamps are turned on and off frequently (motion sensors, occupancy sensors). However, they are being used even in one-start-a-day applications because they extend lamp life significantly. (GE's UltraStart® family)

Ballast Efficacy Factor (BEF)

BEF is BF (Ballast factor) divided by ballast input watts. For a given BF and a certain number of lamps operated on the ballast, the more efficient ballast will have lower watts and, therefore, a higher BEF.

$$\text{Ballast Efficacy (BEF) Factor} = \frac{\text{Ballast Factor}}{\text{Ballast Input Watts}} \times 100$$

Some industry groups write standards based on BEF in order to identify more efficient ballasts. However, this measure is somewhat obscure and an alternate measure that is simpler to understand is:

System Efficacy (Mean System LPW or MLPW)

This is the mean source lumens provided by the particular system divided by the watts the system is using.

$$\text{Mean Source Lumens} = \left(\text{Lamp Mean Lumen Rating} \right) \times \left(\text{Ballast Factor} \right) \times \left(\text{Number of Lamps} \right)$$

and

$$\text{System Efficacy (MLPW)} = \frac{\text{Mean Source Lumens}}{\text{Ballast Input Watts}}$$

The Consortium on Energy Efficiency (CEE) uses both BEF and MLPW in its documents on high performance T8 specifications and reduced wattage T8 specifications. The rebate programs of many utilities around the country currently use these two measures to determine which systems will qualify for rebates.

Ballast Electrical Efficiency (BE)

A simple electrical measure of how efficiently a ballast performs is:

$$\text{Ballast Efficiency} = \frac{\text{Watts Delivered to Lamps}}{\text{Ballast Input Watts}}$$

NEMA (National Electric Manufacturer's Association) uses Ballast Efficiency (BE) as an alternative method to designate "NEMA PREMIUM" ballasts as those having 90% or greater electrical efficiency. BE is gaining increasing acceptance as an objective and reproducible measure because it excludes the variability present in individual lamp performance and the difficulties associated with accurate determination of lumens.

Fluorescent Ballast Application Notes

Ballast Operating Lifetime

Heat is the enemy of modern electronic ballasts. As ballast case temperature increases, life expectancy decreases. GE ballast designs feature patented high efficiency circuits that have less losses and lower internal heat generation than competitive ballasts. Ballast lifetime is developed from thermal testing conducted per UL specified test conditions at a 40°C still air ambient condition. Some GE ballasts are even UL approved for use at 55°C ambient without exceeding the maximum permissible case temperature. Since GE ballasts typically operate well below the maximum temperature rating, the ballast lifetime will usually extend longer than the design life of 60,000 hours. Reducing the case temperature by 10°C will double the life expectancy, but this depends on the operating environment which includes ambient temperature, fixture thermal performance and input voltage conditions.

EMI and RFI

All electronic ballasts operate at frequencies that generate Electromagnetic Interference or Radio Frequency Interference. GE Ballasts are tested by FCC certified labs to ensure their emissions are well within the established limits for Class A Commercial and Industrial applications. Some GE ballasts are designed for Residential applications and meet a more stringent Class B Consumer FCC rating. The Consumer rating will minimize chances of the ballast interfering with radio and television reception. If interference results, ensure the ballast case is properly grounded to the metal fixture, and the fixture is grounded by a green ground wire that connects directly to the service panel. As the electromagnetic spectrum is increasing occupied, it is recommended to test a sample lamp and ballast system in the intended environment to ensure there are no undesired interactions with other equipment or systems operating in the same environment.

Energy Saving Lamps

Energy saving lamps lower the lamp operating wattage by use of special gas mixtures. These lamps are sometimes harder to strike or break down than full wattage lamps and due to the gas mixture, may be more susceptible to striations during operation. GE Ballasts feature proprietary anti striation circuitry that minimize or completely eliminate striation effect of energy saving lamps. Ballast remote mounting distance is specified for standard full wattage lamps only.

Fixture Wiring Techniques

Electronic ballasts are now much more popular than the old magnetic ballasts, offering superior energy efficiency, greater lamp efficacy, and cooler operation. The first electronic ballasts operated only slightly above the audible frequency range around 22 kHz. As today's ballasts operate at high frequency, typically 40 kHz and higher, some attention is needed to ensure the fixture wiring does not create any starting or operational issues due to wiring capacitance.

As ballasts decrease in size, the operation frequency increases. The increased frequency of operation makes capacitive effects more pronounced. Capacitive effects come from a high frequency lead wire being in proximity to another lead wire or the grounded metal of the fixture. Worse capacitive effects result when the lead wires are closer and the frequency is higher.

When installing ballasts into fixtures, the wiring needs to be routed point to point and if possible, the excess wire trimmed out. Occasionally, some installers tend to be too neat, twisting the wires together or bundling the wires together with wire ties. While this does make for a neat fixture, it may create capacitive effect issues for the lamp and ballast system.

Wire bundling can create unintended current flows from lead to lead and also from lead to ground in the fixture. These current flows are parasitic, and will reduce the available starting voltage, preheating current or discharge current in the lamp. The results can be poor or erratic starting or reduced system efficacy as some of the energy from the ballast is getting "short circuited" away from the intended lamp load. In T5 or CFL applications, excessive stray capacitance can also affect End Of Life circuit operation, causing the ballast to prematurely shut down.

In dual switched systems, or systems that use two or more ballasts within the same fixture, ballasts more subject to cross talk and interference due to capacitive effects. It is important the wiring be placed neatly without bunching up the excess in the wiring channel. Lamp leads can run parallel to each other but should not be bundled or tied together. Lamp leads should also be trimmed when possible to eliminate excess lead length. It is also good to keep the output leads from one ballast away from those of the other ballast. Lamp leads should also be kept away from the AC input leads as this can cause undesired interference or EMI, which can affect other devices operating on the same power source.

In summary, the lamp lead wiring should be laid parallel into the fixture with excess length trimmed. Do not twist or otherwise bundle the leads together, and ensure no leads are caught or crimped between the ballast channel cover and the fixture body.

Remote and Tandem Mounting of Ballasts

As today's economics drive lower first costs, many fixture manufacturers increasingly use only one ballast to operate lamps in two or more fixtures. This tandem mounting scheme decreases the total number of ballasts needed for a given installation. The fixtures are typically interconnected with a wiring "whip" of flexible metal conduit with a number of wires inside. The whip brings the high frequency lamp leads from the ballast in one fixture to the lamp or lamps in a satellite fixture. Tandem operation has lamps operating in the fixture that has the ballast and also in the satellite fixture.

Remote mounting is when a ballast is located in a separate enclosure without lamps and wires to all the lamps run through a conduit or flexible whip to a remote fixture which contains the lamps.

In past years, ballasts were magnetic and operated at 60 Hz, and tandem or remote mounting scheme was only occasionally used, so issues with remote or tandem mounting were not so frequent. In today's energy efficient electronic ballasts, the frequency is much higher, usually greater than 40 kHz, and more fixtures are being tandem operated to manage first costs of a system. Tandem operation can lead to system issues such as poor or erratic starting and differences in light level during steady state lamp operation.

These issues develop when the combination of high operating frequency and parasitic capacitance from the wiring create unintended coupling between conductors or to earth ground. Each wire in the fixture and the interconnect whip will have a certain capacitance to other wires running parallel to it, and also a capacitance to earth ground. This unintended capacitive coupling creates a shunt path taking away some energy that was intended for the lamp load. This causes reductions in the available open circuit voltage need to strike the lamp or a loss of preheating energy. Both cases lead to poor or erratic starting in the remote fixture(s).

For some multiple lamp ballasts, certain lamp leads are at higher potential and should be connected to lamps that reside in the same fixture as the ballast. The ballast manufacturer may have specific recommendations as to which of the lamp leads can be utilized for the remote fixture of a tandem set, and restrictions on how long the wiring from ballast to lamp may be. Ballasts may also have different permissible wiring lengths per lamp lead color based on the application. Remote mounting applications may permit a longer wiring length than some tandem applications as the remote situation presents a uniform loss to all lamp leads. The tandem operation scheme may present different capacitances to different lamp leads that could result in poor starting and differences in light level during operation.

In some cases, these issues are compounded because the interconnect whip is carrying wires connected to two different ballasts. Since the ballasts are not likely to be exactly in phase, there can be additional losses due to capacitive phase cancellation between leads of the two different ballasts. There may also be system interactions where either ballast will work fine separately, but will not work together. In these cases, the interconnect whip may need to be shorter, limiting the distance between the fixtures, or two separate whips could be used.

As the ballast operating frequency gets higher, the capacitive shunting effect become more pronounced. Dimming ballasts typically are at the highest frequency when in deep dimming. Due to the effects of capacitive losses, lamps may appear at different intensities or drop out and may flicker due to losses of cathode heating energy. It is recommended that dimming ballasts not be remote mounted or used in tandem operation, all lamp wiring must stay within the fixture containing the dimming ballast.

Energy saving lamps may be more susceptible to starting issues when used in remote or tandem fixture operation. These lamps utilize a gas mixture that does not ionize as easily as full wattage lamps, and are more likely to have starting issues due to the reduced starting voltage resulting from the capacitive losses.

Remote starting distances are specified at room temperature using standard life, full wattage lamps, with one ballast driving all lamps located in the remote fixture through a single conduit at the specified distance. In view of the possible differences related to any specific application, it is advised that any tandem or remote mount application using one or more ballasts be tested in the final configuration to ensure the system will perform as expected in the intended environment.

UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

72258 – GE132MAXP-L/ULTRA

UltraMax® P-Series Instant Start

Multi-Voltage High-Efficiency

1 – F32T8 120 to 277 "L" .77 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

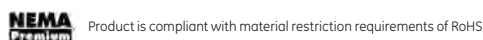
| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 72258 | | | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1A – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.6lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 1 | 120 | 25 | 0.22 | .78 | 3.12 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 25 | 0.10 | .78 | 3.12 | 94 | 1.5 | 10 | -22/-30 |
| F32T8/AWM | 1 | 120 | 24 | 0.21 | .77 | 3.21 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 24 | 0.09 | .77 | 3.21 | 94 | 1.5 | 10 | -22/-30 |
| F28T8 | 1 | 120 | 22 | 0.20 | .81 | 3.68 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 22 | 0.09 | .81 | 3.68 | 94 | 1.5 | 10 | -22/-30 |
| F32T8/25W | 1 | 120 | 21 | 0.18 | .77 | 3.67 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 21 | 0.08 | .77 | 3.67 | 93 | 1.5 | 10 | -22/-30 |
| F25T8 | 1 | 120 | 21 | 0.18 | .87 | 4.14 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 21 | 0.08 | .87 | 4.14 | 93 | 1.5 | 10 | -22/-30 |
| F17T8 | 1 | 120 | 15 | 0.13 | .92 | 6.13 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 15 | 0.07 | .92 | 6.13 | 89 | 1.5 | 10 | -22/-30 |
| FE15T8 | 1 | 120 | 14 | 0.10 | .77 | 5.5 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 14 | 0.05 | .77 | 5.5 | 87 | 1.5 | 10 | -22/-30 |
| F25T12 | 1 | 120 | 21 | 0.19 | .80 | 3.81 | 99 | 1.5 | 10 | 0/-18 |
| | 1 | 277 | 21 | 0.09 | .80 | 3.81 | 94 | 1.5 | 10 | 0/-18 |

Safety and performance



UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

72259 – GE132MAXP-N/ULTRA

UltraMax® P-Series Instant Start

Multi-Voltage High-Efficiency

1 – F32T8 120 to 277 “N” .87 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic - High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 72259 | | | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1A – see example on Page 10-61 | |
| Case dimensions – Ref Drawing – A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.6 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 1 | 120 | 28 | 0.24 | .88 | 3.14 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 28 | 0.11 | .88 | 3.14 | 98 | 1.5 | 10 | -22/-30 |
| F32T8/NM | 1 | 120 | 27 | 0.23 | .87 | 3.22 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 27 | 0.10 | .87 | 3.22 | 98 | 1.5 | 10 | -22/-30 |
| F28T8 | 1 | 120 | 25 | 0.22 | .89 | 3.56 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 25 | 0.10 | .89 | 3.56 | 98 | 1.5 | 10 | -22/-30 |
| F32T8/25W | 1 | 120 | 24 | 0.19 | .88 | 3.67 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 23 | 0.09 | .88 | 3.83 | 94 | 1.5 | 10 | -22/-30 |
| F25T8 | 1 | 120 | 23 | 0.19 | .94 | 4.09 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 24 | 0.09 | .94 | 3.92 | 94 | 1.5 | 10 | -22/-30 |
| F17T8 | 1 | 120 | 17 | 0.14 | .98 | 5.76 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 17 | 0.07 | .98 | 5.76 | 90 | 1.5 | 10 | -22/-30 |
| FE15T8 | 1 | 120 | 14 | 0.12 | .92 | 6.57 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 14 | 0.06 | .92 | 6.57 | 88 | 1.5 | 10 | -22/-30 |
| F25T12 | 1 | 120 | 25 | 0.21 | .94 | 3.76 | 99 | 1.5 | 10 | 0/-18 |
| | 1 | 277 | 25 | 0.10 | .94 | 3.76 | 94 | 1.5 | 10 | 0/-18 |

Safety and performance



UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

63885 – GE132MAXP-H/ULTRA

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency
1 – F32T8 120 to 277 “H” 1.18 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |






| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |


| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 63885 | | | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1A – see example on Page 10-61 | |
| Case dimensions – Ref Drawing – A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.6lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F32T8 | 1 | 120 | 38 | 0.32 | 1.18 | 3.11 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 37 | 0.14 | 1.18 | 3.19 | 97 | 1.5 | 10 | -22/-30 | |
| F32T8/NWM | 1 | 120 | 36 | 0.30 | 1.15 | 3.19 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 35 | 0.13 | 1.15 | 3.29 | 97 | 1.5 | 10 | -22/-30 | |
| F28T8 | 1 | 120 | 33 | 0.28 | 1.15 | 3.48 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 33 | 0.12 | 1.15 | 3.48 | 96 | 1.5 | 10 | -22/-30 | |
| F32T8/25W | 1 | 120 | 30 | 0.25 | 1.20 | 4.00 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 30 | 0.11 | 1.20 | 4.00 | 96 | 1.5 | 10 | -22/-30 | |
| F25T8 | 1 | 120 | 30 | 0.25 | 1.20 | 4.00 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 30 | 0.11 | 1.20 | 4.00 | 96 | 1.5 | 10 | -22/-30 | |
| F17T8 | 1 | 120 | 22 | 0.18 | 1.23 | 5.59 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 22 | 0.09 | 1.23 | 5.59 | 93 | 1.5 | 10 | -22/-30 | |
| FE15T8 | 1 | 120 | 19 | 0.16 | 1.20 | 6.32 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 19 | 0.08 | 1.20 | 6.32 | 91 | 1.5 | 10 | -22/-30 | |
| F25T12 | 1 | 120 | 33 | 0.27 | 1.20 | 3.64 | 99 | 1.5 | 10 | 0/-18 | |
| | 1 | 277 | 32 | 0.12 | 1.20 | 3.75 | 96 | 1.5 | 10 | 0/-18 | |

Safety and performance


 UL Class P
  UL Type 1 Outdoor
  UL Type CC
  UL Type HL
 FCC – CLASS A Non-Consumer


 Product is compliant with material restriction requirements of RoHS

Ballasts
T8 Instant Start
T8 Programmed Start
T8/T5 Dimming
T5 Electronic Programmed Start
T12 Electronic & High Output
Magnetic
Sign
Compact Fluorescent
HID Electronic & Electromagnetic

UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

73190 – GE232MAXP-H/ULTRA

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency

2 or 1 – F32T8 120 to 277 "H" 1.18 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

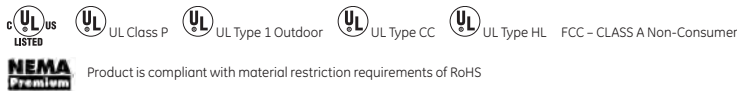
| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 73190 | 73191 | | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1B – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.7lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 2 | 120 | 74 | 0.62 | 1.19 | 1.61 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 73 | 0.26 | 1.19 | 1.63 | 98 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 47 | 0.40 | 1.38 | 2.94 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 46 | 0.18 | 1.38 | 3.00 | 96 | 1.5 | 20 | -22/-30 |
| | 2 | 120 | 70 | 0.59 | 1.16 | 1.66 | 99 | 1.5 | 10 | 22/-30 |
| | 2 | 277 | 69 | 0.26 | 1.16 | 1.68 | 98 | 1.5 | 10 | 22/-30 |
| F32T8/WM | 1 | 120 | 43 | 0.37 | 1.37 | 3.19 | 99 | 1.5 | 10 | 22/-30 |
| | 1 | 277 | 43 | 0.17 | 1.37 | 3.19 | 95 | 1.5 | 15 | 22/-30 |
| | 2 | 120 | 65 | 0.55 | 1.14 | 1.75 | 99 | 1.5 | 10 | 22/-30 |
| | 2 | 277 | 64 | 0.24 | 1.14 | 1.78 | 97 | 1.5 | 10 | 22/-30 |
| | 1 | 120 | 40 | 0.34 | 1.34 | 3.35 | 99 | 1.5 | 10 | 22/-30 |
| | 1 | 277 | 41 | 0.16 | 1.34 | 3.27 | 94 | 1.5 | 20 | 22/-30 |
| F28T8 | 2 | 120 | 60 | 0.51 | 1.16 | 1.93 | 99 | 1.5 | 10 | 22/-30 |
| | 2 | 277 | 60 | 0.22 | 1.16 | 1.93 | 97 | 1.5 | 15 | 22/-30 |
| | 1 | 120 | 38 | 0.32 | 1.37 | 3.60 | 99 | 1.5 | 15 | 22/-30 |
| | 1 | 277 | 38 | 0.15 | 1.37 | 3.60 | 94 | 1.5 | 20 | 22/-30 |
| | 2 | 120 | 62 | 0.52 | 1.16 | 1.87 | 99 | 1.5 | 10 | 22/-30 |
| | 2 | 277 | 61 | 0.22 | 1.16 | 1.90 | 97 | 1.5 | 15 | 22/-30 |
| F25T8 | 1 | 120 | 38 | 0.32 | 1.37 | 3.61 | 99 | 1.5 | 15 | 22/-30 |
| | 1 | 277 | 38 | 0.15 | 1.37 | 3.61 | 94 | 1.5 | 20 | 22/-30 |
| | 2 | 120 | 41 | 0.36 | 1.17 | 2.85 | 99 | 1.5 | 10 | 22/-30 |
| | 2 | 277 | 41 | 0.17 | 1.17 | 2.85 | 95 | 1.5 | 20 | 22/-30 |
| | 1 | 120 | 26 | 0.23 | 1.37 | 5.27 | 99 | 1.5 | 15 | 22/-30 |
| | 1 | 277 | 27 | 0.12 | 1.37 | 5.07 | 90 | 1.5 | 20 | 22/-30 |
| F17T8 | 2 | 120 | 32 | 0.29 | 1.02 | 3.19 | 99 | 1.5 | 15 | 22/-30 |
| | 2 | 277 | 33 | 0.14 | 1.02 | 3.09 | 93 | 1.5 | 20 | 22/-30 |
| | 1 | 120 | 23 | 0.19 | 1.21 | 5.26 | 98 | 1.5 | 15 | 22/-30 |
| | 1 | 277 | 22 | 0.10 | 1.21 | 5.50 | 87 | 1.5 | 20 | 22/-30 |
| | 1 | 120 | 56 | 0.46 | .66 | 1.18 | 99 | 1.5 | 10 | 22/-30 |
| | 1 | 277 | 55 | 0.21 | .66 | 1.20 | 94 | 1.5 | 15 | 22/-30 |
| F40T8 | 2 | 120 | 64 | 0.54 | 1.11 | 1.73 | 99 | 1.5 | 10 | 0/-18 |
| | 2 | 277 | 63 | 0.24 | 1.11 | 1.76 | 97 | 1.5 | 10 | 0/-18 |
| | 1 | 120 | 40 | 0.35 | 1.36 | 3.40 | 99 | 1.5 | 10 | 0/-18 |
| | 1 | 277 | 40 | 0.16 | 1.36 | 3.40 | 94 | 1.5 | 15 | 0/-18 |
| | 1 | 120 | 56 | 0.46 | .66 | 1.18 | 99 | 1.5 | 10 | 22/-30 |
| | 1 | 277 | 55 | 0.21 | .66 | 1.20 | 94 | 1.5 | 15 | 22/-30 |
| F25T12 | 2 | 120 | 64 | 0.54 | 1.11 | 1.73 | 99 | 1.5 | 10 | 0/-18 |
| | 2 | 277 | 63 | 0.24 | 1.11 | 1.76 | 97 | 1.5 | 10 | 0/-18 |
| | 1 | 120 | 40 | 0.35 | 1.36 | 3.40 | 99 | 1.5 | 10 | 0/-18 |
| | 1 | 277 | 40 | 0.16 | 1.36 | 3.40 | 94 | 1.5 | 15 | 0/-18 |
| | 1 | 120 | 56 | 0.46 | .66 | 1.18 | 99 | 1.5 | 10 | 22/-30 |
| | 1 | 277 | 55 | 0.21 | .66 | 1.20 | 94 | 1.5 | 15 | 22/-30 |

Safety and performance



UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

72262 – GE232MAXP-L/ULTRA

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency
2 or 1 – F32T8 120 to 277 “L” .77 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 72262 | 72263 | | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1B – see example on Page 10-61 | |
| Case dimensions – Ref Drawing –A– see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.7lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F32T8 | 2 | 120 | 48 | 0.42 | .78 | 1.63 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 48 | 0.19 | .78 | 1.63 | 98 | 1.5 | 10 | -22/-30 | |
| | 1 | 120 | 30 | 0.24 | .96 | 3.20 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 30 | 0.11 | .96 | 3.20 | 95 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 46 | 0.39 | .77 | 1.67 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 46 | 0.17 | .77 | 1.67 | 98 | 1.5 | 10 | -22/-30 | |
| F32T8/WM | 1 | 120 | 28 | 0.22 | .77 | 2.75 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 28 | 0.11 | .77 | 2.75 | 94 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 43 | 0.36 | .77 | 1.79 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 42 | 0.16 | .77 | 1.83 | 97 | 1.5 | 10 | -22/-30 | |
| F28T8 | 1 | 120 | 26 | 0.21 | .77 | 2.96 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 26 | 0.10 | .77 | 2.96 | 94 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 39 | 0.33 | .78 | 2.00 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 39 | 0.15 | .78 | 2.00 | 96 | 1.5 | 10 | -22/-30 | |
| F32T8/25W | 1 | 120 | 22 | 0.18 | .78 | 3.55 | 98 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 22 | 0.09 | .78 | 3.55 | 93 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 40 | 0.34 | .78 | 1.95 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 40 | 0.15 | .78 | 1.95 | 96 | 1.5 | 10 | -22/-30 | |
| F25T8 | 1 | 120 | 23 | 0.21 | .96 | 4.17 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 24 | 0.10 | .96 | 4.00 | 93 | 1.5 | 15 | -22/-30 | |
| | 2 | 120 | 28 | 0.24 | .79 | 2.82 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 29 | 0.11 | .79 | 2.72 | 94 | 1.5 | 10 | -22/-30 | |
| F17T8 | 1 | 120 | 17 | 0.15 | .98 | 5.76 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 18 | 0.08 | .98 | 5.44 | 90 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 23 | 0.20 | .78 | 3.39 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 23 | 0.10 | .78 | 3.39 | 91 | 1.5 | 15 | -22/-30 | |
| FE15T8 | 1 | 120 | 14 | 0.13 | .78 | 5.57 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 15 | 0.07 | .78 | 5.20 | 87 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 42 | 0.35 | .80 | 1.90 | 99 | 1.5 | 10 | 0/-18 | |
| | 2 | 277 | 41 | 0.15 | .80 | 1.95 | 97 | 1.5 | 10 | 0/-18 | |
| F25T12 | 1 | 120 | 24 | 0.21 | .80 | 3.33 | 99 | 1.5 | 10 | 0/-18 | |
| | 1 | 277 | 24 | 0.10 | .80 | 3.33 | 95 | 1.5 | 10 | 0/-18 | |

Safety and performance UL LISTED UL Class P UL Type 1 Outdoor UL Type CC UL Type HL FCC – CLASS A Non-Consumer

NEMA Premium Product is compliant with material restriction requirements of RoHS

Ballasts
T8 Instant Start
T8 Programmed Start
T8/T5 Dimming
T5 Electronic Programmed Start
T12 Electronic & High Output
Magnetic
Sign
Compact Fluorescent
HID Electronic & Electromagnetic

UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

72266 – GE232MAXP-N/ULTRA

UltraMax® P-Series Instant Start

Multi-Voltage High-Efficiency

2 or 1 – F32T8 120 to 277 “N” .87 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 72266 | 72267 | 72268 | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1B – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.7 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 2 | 120 | 54 | 0.47 | .88 | 1.63 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 53 | 0.20 | .88 | 1.66 | 98 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 31 | 0.26 | 1.08 | 3.48 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 31 | 0.12 | 1.08 | 3.48 | 96 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 52 | 0.44 | .87 | 1.67 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 51 | 0.19 | .87 | 1.71 | 98 | 1.5 | 10 | -22/-30 |
| F32T8/WM | 1 | 120 | 29 | 0.25 | 1.07 | 3.69 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 29 | 0.12 | 1.07 | 3.69 | 96 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 48 | 0.40 | .85 | 1.77 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 47 | 0.17 | .85 | 1.81 | 98 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 27 | 0.24 | 1.05 | 3.89 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 27 | 0.11 | 1.05 | 3.89 | 95 | 1.5 | 10 | -22/-30 |
| F28T8 | 2 | 120 | 44 | 0.37 | .87 | 1.98 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 43 | 0.16 | .87 | 2.02 | 98 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 25 | 0.23 | .87 | 3.48 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 25 | 0.10 | .87 | 3.48 | 94 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 44 | 0.38 | .87 | 1.98 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 44 | 0.16 | .87 | 1.98 | 98 | 1.5 | 10 | -22/-30 |
| F25T8 | 1 | 120 | 26 | 0.23 | 1.09 | 4.19 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 26 | 0.11 | 1.09 | 4.19 | 94 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 31 | 0.27 | .88 | 2.84 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 31 | 0.12 | .88 | 2.84 | 96 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 19 | 0.17 | 1.09 | 5.74 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 19 | 0.08 | 1.09 | 5.74 | 90 | 1.5 | 20 | -22/-30 |
| F17T8 | 2 | 120 | 25 | 0.21 | .91 | 3.64 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 25 | 0.10 | .91 | 3.64 | 93 | 1.5 | 15 | -22/-30 |
| | 1 | 120 | 16 | 0.14 | .91 | 5.69 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 16 | 0.07 | .91 | 5.69 | 88 | 1.5 | 15 | -22/-30 |
| | 2 | 120 | 46 | 0.39 | .93 | 2.02 | 99 | 1.5 | 10 | 0/-18 |
| | 2 | 277 | 46 | 0.17 | .93 | 2.02 | 98 | 1.5 | 10 | 0/-18 |
| FE15T8 | 1 | 120 | 27 | 0.24 | .93 | 3.44 | 99 | 1.5 | 10 | 0/-18 |
| | 1 | 277 | 27 | 0.11 | .93 | 3.44 | 95 | 1.5 | 10 | 0/-18 |
| | 1 | 277 | 27 | 0.11 | .93 | 3.44 | 95 | 1.5 | 10 | 0/-18 |

Safety and performance



UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

71421 – GE232MAXP-N+

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency
2 or 1 – F32T8 120 to 277 “N+” 1.0 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal-High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 71421 | | | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1B – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.7 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F32T8 | 2 | 120 | 63 | 0.53 | 1.01 | 1.60 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 62 | 0.22 | 1.01 | 1.63 | 98 | 1.5 | 10 | -22/-30 | |
| | 1 | 120 | 39 | 0.33 | 1.17 | 3.00 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 39 | 0.14 | 1.17 | 3.00 | 96 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 60 | 0.50 | 1.00 | 1.67 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 60 | 0.22 | 1.00 | 1.67 | 98 | 1.5 | 10 | -22/-30 | |
| F32T8/WM | 1 | 120 | 37 | 0.30 | 1.16 | 3.14 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 37 | 0.14 | 1.16 | 3.14 | 96 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 55 | 0.46 | 98 | 1.78 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 55 | 0.21 | 98 | 1.78 | 98 | 1.5 | 10 | -22/-30 | |
| | 1 | 120 | 34 | 0.28 | 1.16 | 3.41 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 34 | 0.13 | 1.16 | 3.41 | 95 | 1.5 | 10 | -22/-30 | |
| F28T8 | 2 | 120 | 51 | 0.43 | 1.00 | 1.96 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 51 | 0.19 | 1.00 | 1.96 | 98 | 1.5 | 10 | -22/-30 | |
| | 1 | 120 | 31 | 0.26 | 1.00 | 3.23 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 31 | 0.12 | 1.00 | 3.23 | 95 | 1.5 | 15 | -22/-30 | |
| | 2 | 120 | 51 | 0.43 | 1.00 | 1.96 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 51 | 0.19 | 1.00 | 1.96 | 98 | 1.5 | 10 | -22/-30 | |
| F32T8/25W | 1 | 120 | 31 | 0.26 | 1.19 | 3.84 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 31 | 0.12 | 1.19 | 3.84 | 95 | 1.5 | 15 | -22/-30 | |
| | 2 | 120 | 37 | 0.31 | 1.01 | 2.73 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 37 | 0.14 | 1.01 | 2.73 | 97 | 1.5 | 10 | -22/-30 | |
| | 1 | 120 | 24 | 0.20 | 1.19 | 4.96 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 24 | 0.10 | 1.19 | 4.96 | 91 | 1.5 | 20 | -22/-30 | |
| F17T8 | 2 | 120 | 30 | 0.26 | 1.00 | 3.33 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 31 | 0.12 | 1.00 | 3.23 | 94 | 1.5 | 15 | -22/-30 | |
| | 1 | 120 | 20 | 0.17 | 1.00 | 5.00 | 99 | 1.5 | 10 | -22/-30 | |
| | 1 | 277 | 21 | 0.09 | 1.00 | 4.76 | 89 | 1.5 | 15 | -22/-30 | |
| | 2 | 120 | 55 | 0.46 | 98 | 1.78 | 99 | 1.5 | 10 | 0/-18 | |
| | 2 | 277 | 54 | 0.20 | 98 | 1.81 | 98 | 1.5 | 10 | 0/-18 | |
| FE15T8 | 1 | 120 | 34 | 0.28 | 98 | 2.88 | 99 | 1.5 | 10 | 0/-18 | |
| | 1 | 277 | 34 | 0.13 | 98 | 2.88 | 96 | 1.5 | 10 | 0/-18 | |

Safety and performance FCC – CLASS A Non-Consumer

Product is compliant with material restriction requirements of RoHS

Ballasts
T8 Instant Start
T8 Programmed Start
T8/T5 Dimming
T5 Electronic Programmed Start
T12 Electronic & High Output
Magnetic
Sign
Compact Fluorescent
HID Electronic & Electromagnetic

UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

78619 – GE332MAXP-H/ULTRA

UltraMax® P-Series Instant Start

Multi-Voltage High-Efficiency

3 or 2 – F32T8 120 to 277 “H” 1.18 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 78619 | 78620 | | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1C – see example on Page 10-61 | |
| Case dimensions – Ref Drawing - A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.9 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|---------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F32T8 | 3 | 120 | 110 | 0.93 | 1.18 | 1.10 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 108 | 0.40 | 1.18 | 1.12 | 98 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 85 | 0.74 | 1.30 | 1.53 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 84 | 0.32 | 1.30 | 1.55 | 98 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 103 | 0.86 | 1.13 | 1.07 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 101 | 0.36 | 1.13 | 1.09 | 98 | 1.5 | 10 | -22/-30 | |
| F32T8/WM | 2 | 120 | 79 | 0.68 | 1.26 | 1.59 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 78 | 0.30 | 1.26 | 1.62 | 98 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 95 | 0.82 | 1.14 | 1.20 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 94 | 0.35 | 1.14 | 1.21 | 98 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 73 | 0.63 | 1.28 | 1.75 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 72 | 0.27 | 1.28 | 1.78 | 97 | 1.5 | 10 | -22/-30 | |
| F28T8 | 3 | 120 | 91 | 0.79 | 1.18 | 1.30 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 90 | 0.34 | 1.18 | 1.31 | 98 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 70 | 0.59 | 1.26 | 1.80 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 68 | 0.26 | 1.26 | 1.85 | 97 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 90 | 0.79 | 1.17 | 1.30 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 90 | 0.34 | 1.17 | 1.30 | 98 | 1.5 | 10 | -22/-30 | |
| F25T8 | 2 | 120 | 70 | 0.59 | 1.32 | 1.89 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 68 | 0.26 | 1.32 | 1.94 | 97 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 61 | 0.53 | 1.18 | 1.93 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 60 | 0.23 | 1.18 | 1.97 | 97 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 47 | 0.41 | 1.32 | 2.81 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 47 | 0.19 | 1.32 | 2.81 | 95 | 1.5 | 15 | -22/-30 | |
| F17T8 | 3 | 120 | 50 | 0.42 | 1.03 | 2.06 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 50 | 0.20 | 1.03 | 2.06 | 97 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 39 | 0.33 | 1.13 | 2.90 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 39 | 0.16 | 1.13 | 2.90 | 95 | 1.5 | 15 | -22/-30 | |
| | 2 | 120 | 102 | 0.85 | 1.24 | 1.22 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 101 | 0.37 | 1.24 | 1.23 | 97 | 1.5 | 10 | -22/-30 | |
| FE15T8 | 3 | 120 | 94 | 0.81 | 1.10 | 1.17 | 99 | 1.5 | 10 | 0/-18 | |
| | 3 | 277 | 92 | 0.35 | 1.10 | 1.20 | 98 | 1.5 | 10 | 0/-18 | |
| | 2 | 120 | 73 | 0.63 | 1.23 | 1.68 | 99 | 1.5 | 10 | 0/-18 | |
| | 2 | 277 | 73 | 0.27 | 1.23 | 1.68 | 97 | 1.5 | 10 | 0/-18 | |
| | F40T8 | 3 | 120 | 94 | 0.81 | 1.10 | 1.17 | 99 | 1.5 | 10 | 0/-18 |
| | | 3 | 277 | 92 | 0.35 | 1.10 | 1.20 | 98 | 1.5 | 10 | 0/-18 |
| 2 | | 120 | 73 | 0.63 | 1.23 | 1.68 | 99 | 1.5 | 10 | 0/-18 | |
| 2 | | 277 | 73 | 0.27 | 1.23 | 1.68 | 97 | 1.5 | 10 | 0/-18 | |
| F25T12 | | 2 | 120 | 102 | 0.85 | 1.24 | 1.22 | 99 | 1.5 | 10 | -22/-30 |
| | | 2 | 277 | 101 | 0.37 | 1.24 | 1.23 | 97 | 1.5 | 10 | -22/-30 |
| | 3 | 120 | 94 | 0.81 | 1.10 | 1.17 | 99 | 1.5 | 10 | 0/-18 | |
| | 3 | 277 | 92 | 0.35 | 1.10 | 1.20 | 98 | 1.5 | 10 | 0/-18 | |
| | 2 | 120 | 73 | 0.63 | 1.23 | 1.68 | 99 | 1.5 | 10 | 0/-18 | |
| | 2 | 277 | 73 | 0.27 | 1.23 | 1.68 | 97 | 1.5 | 10 | 0/-18 | |

Safety and performance



Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

78621 – GE332MAXP-L/ULTRA

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency
3 or 2 – F32T8 120 to 277 “L” .77 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 78621 | | | |

Dimensions

Wiring diagram – LFL 1C – see example on Page 10-61
Case dimensions – Ref Drawing –A– see Page 10-62

| | |
|------------|------------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.8lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

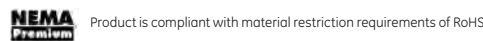
Lead lengths

| | |
|-------|----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 3 | 120 | 73 | 0.61 | .78 | 1.07 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 72 | 0.26 | .78 | 1.08 | 98 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 58 | 0.49 | .89 | 1.53 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 58 | 0.22 | .89 | 1.53 | 97 | 1.5 | 15 | -22/-30 |
| | 3 | 120 | 70 | 0.59 | .76 | 1.09 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 69 | 0.26 | .76 | 1.10 | 98 | 1.5 | 10 | -22/-30 |
| F32T8/WM | 2 | 120 | 54 | 0.45 | .87 | 1.61 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 54 | 0.20 | .87 | 1.61 | 97 | 1.5 | 15 | -22/-30 |
| | 3 | 120 | 64 | 0.54 | .75 | 1.17 | 99 | 1.5 | 10 | -22/-30 |
| F28T8 | 3 | 277 | 64 | 0.24 | .75 | 1.17 | 97 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 49 | 0.41 | .84 | 1.71 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 49 | 0.19 | .84 | 1.71 | 96 | 1.5 | 15 | -22/-30 |
| | 3 | 120 | 61 | 0.51 | .77 | 1.26 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 60 | 0.22 | .77 | 1.28 | 97 | 1.5 | 15 | -22/-30 |
| | 2 | 120 | 46 | 0.39 | .84 | 1.83 | 99 | 1.5 | 10 | -22/-30 |
| F32T8/25W | 2 | 277 | 46 | 0.18 | .84 | 1.83 | 95 | 1.5 | 15 | -22/-30 |
| | 3 | 120 | 61 | 0.51 | .78 | 1.28 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 60 | 0.22 | .78 | 1.30 | 97 | 1.5 | 15 | -22/-30 |
| F25T8 | 2 | 120 | 46 | 0.39 | .86 | 1.87 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 46 | 0.18 | .86 | 1.87 | 95 | 1.5 | 15 | -22/-30 |
| | 3 | 120 | 42 | 0.36 | .78 | 1.86 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 42 | 0.17 | .78 | 1.86 | 95 | 1.5 | 15 | -22/-30 |
| | 2 | 120 | 32 | 0.28 | .88 | 2.75 | 99 | 1.5 | 15 | -22/-30 |
| | 2 | 277 | 33 | 0.14 | .88 | 2.67 | 93 | 1.5 | 15 | -22/-30 |
| F17T8 | 3 | 120 | 33 | 0.29 | .70 | 2.12 | 99 | 1.5 | 15 | -22/-30 |
| | 3 | 277 | 33 | 0.14 | .70 | 2.12 | 93 | 1.5 | 15 | -22/-30 |
| | 2 | 120 | 26 | 0.23 | .77 | 2.96 | 99 | 1.5 | 15 | -22/-30 |
| FE15T8 | 2 | 277 | 26 | 0.12 | .77 | 2.96 | 90 | 1.5 | 15 | -22/-30 |
| | 3 | 120 | 61 | 0.52 | .70 | 1.15 | 99 | 1.5 | 10 | 0/-18 |
| | 3 | 277 | 61 | 0.23 | .70 | 1.15 | 97 | 1.5 | 10 | 0/-18 |
| F25T12 | 2 | 120 | 47 | 0.40 | .80 | 1.70 | 99 | 1.5 | 10 | 0/-18 |
| | 2 | 277 | 47 | 0.18 | .80 | 1.70 | 96 | 1.5 | 15 | 0/-18 |

Safety and performance



Ballasts
T8 Instant Start
T8 Programmed Start
T8/T5 Dimming
T5 Electronic Programmed Start
T12 Electronic & High Output
Magnetic
Sign
Compact Fluorescent
HID Electronic & Electromagnetic

UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

78623 – GE332MAXP-N/ULTRA

UltraMax® P-Series Instant Start

Multi-Voltage High-Efficiency

3 or 2 – F32T8 120 to 277 “N” .87 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Sound Rating | A (20-24 decibels) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 78623 | | 71722 | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1C – see example on Page 10-61 | |
| Case dimensions – Ref Drawing – A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.8lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |


| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 3 | 120 | 82 | 0.70 | .88 | 1.07 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 81 | 0.30 | .88 | 1.09 | 98 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 64 | 0.54 | .97 | 1.52 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 63 | 0.24 | .97 | 1.54 | 97 | 1.5 | 10 | -22/-30 |
| | 3 | 120 | 77 | 0.65 | .86 | 1.12 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 76 | 0.28 | .86 | 1.13 | 98 | 1.5 | 10 | -22/-30 |
| F32T8/WM | 2 | 120 | 59 | 0.50 | .98 | 1.66 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 58 | 0.22 | .98 | 1.69 | 97 | 1.5 | 15 | -22/-30 |
| | 3 | 120 | 70 | 0.60 | .84 | 1.20 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 70 | 0.26 | .84 | 1.20 | 98 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 54 | 0.45 | .94 | 1.74 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 53 | 0.20 | .94 | 1.77 | 97 | 1.5 | 15 | -22/-30 |
| F28T8 | 3 | 120 | 67 | 0.57 | .87 | 1.30 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 66 | 0.25 | .87 | 1.32 | 98 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 51 | 0.43 | .93 | 1.82 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 51 | 0.19 | .93 | 1.82 | 97 | 1.5 | 15 | -22/-30 |
| | 3 | 120 | 67 | 0.57 | .85 | 1.27 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 67 | 0.25 | .85 | 1.27 | 98 | 1.5 | 10 | -22/-30 |
| F32T8/25W | 2 | 120 | 51 | 0.43 | .97 | 1.90 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 51 | 0.19 | .97 | 1.90 | 97 | 1.5 | 15 | -22/-30 |
| | 3 | 120 | 45 | 0.40 | .86 | 1.91 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 45 | 0.18 | .86 | 1.91 | 97 | 1.5 | 15 | -22/-30 |
| | 2 | 120 | 35 | 0.30 | .99 | 2.83 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 36 | 0.14 | .99 | 2.75 | 95 | 1.5 | 15 | -22/-30 |
| F17T8 | 3 | 120 | 36 | 0.31 | .77 | 2.14 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 36 | 0.15 | .77 | 2.14 | 96 | 1.5 | 15 | -22/-30 |
| | 2 | 120 | 28 | 0.25 | .86 | 3.07 | 99 | 1.5 | 15 | -22/-30 |
| | 2 | 277 | 28 | 0.12 | .86 | 3.07 | 93 | 1.5 | 20 | -22/-30 |
| | 3 | 120 | 68 | 0.58 | .78 | 1.15 | 99 | 1.5 | 10 | 0/-18 |
| | 3 | 277 | 67 | 0.25 | .78 | 1.16 | 97 | 1.5 | 10 | 0/-18 |
| FE15T8 | 2 | 120 | 52 | 0.45 | .89 | 1.71 | 99 | 1.5 | 10 | 0/-18 |
| | 2 | 277 | 52 | 0.20 | .89 | 1.71 | 96 | 1.5 | 15 | 0/-18 |

Safety and performance






 FCC – CLASS A Non-Consumer


 Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

71422 – GE332MAXP-N+

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency
3 or 2 – F32T8 120 to 277 “N+” 1.0 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic - High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal-High |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |







| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 71422 | | | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1C – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.8lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F32T8 | 3 | 120 | 93 | 0.78 | 1.01 | 1.09 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 92 | 0.33 | 1.01 | 1.10 | 98 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 73 | 0.61 | 1.13 | 1.55 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 73 | 0.26 | 1.13 | 1.55 | 97 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 87 | 0.73 | 1.00 | 1.15 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 85 | 0.32 | 1.00 | 1.18 | 98 | 1.5 | 10 | -22/-30 | |
| F32T8/WM | 2 | 120 | 62 | 0.52 | 1.10 | 1.77 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 61 | 0.23 | 1.10 | 1.80 | 97 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 83 | 0.69 | 1.00 | 1.20 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 82 | 0.30 | 1.00 | 1.22 | 98 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 61 | 0.50 | 1.08 | 1.77 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 60 | 0.22 | 1.08 | 1.80 | 97 | 1.5 | 10 | -22/-30 | |
| F28T8 | 3 | 120 | 77 | 0.64 | 1.01 | 1.31 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 76 | 0.27 | 1.01 | 1.33 | 98 | 1.5 | 10 | -22/-30 | |
| | 2 | 120 | 59 | 0.49 | 1.01 | 1.71 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 58 | 0.21 | 1.01 | 1.74 | 96 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 77 | 0.64 | 1.01 | 1.31 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 76 | 0.27 | 1.01 | 1.33 | 98 | 1.5 | 10 | -22/-30 | |
| F25T8 | 2 | 120 | 59 | 0.49 | 1.14 | 1.93 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 58 | 0.21 | 1.14 | 1.97 | 96 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 54 | 0.46 | 1.03 | 1.91 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 54 | 0.20 | 1.03 | 1.91 | 96 | 1.5 | 15 | -22/-30 | |
| | 2 | 120 | 42 | 0.35 | 1.03 | 2.45 | 99 | 1.5 | 10 | -22/-30 | |
| | 2 | 277 | 42 | 0.16 | 1.03 | 2.45 | 94 | 1.5 | 15 | -22/-30 | |
| F17T8 | 3 | 120 | 44 | 0.37 | 1.00 | 2.27 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 44 | 0.17 | 1.00 | 2.27 | 95 | 1.5 | 15 | -22/-30 | |
| | 2 | 120 | 34 | 0.30 | 1.00 | 2.94 | 99 | 1.5 | 15 | -22/-30 | |
| | 2 | 277 | 35 | 0.14 | 1.00 | 2.86 | 92 | 1.5 | 15 | -22/-30 | |
| | 3 | 120 | 80 | 0.67 | .93 | 1.16 | 99 | 1.5 | 10 | 0/-18 | |
| | 3 | 277 | 79 | 0.29 | .93 | 1.18 | 98 | 1.5 | 10 | 0/-18 | |
| F25T12 | 2 | 120 | 60 | 0.51 | .93 | 1.55 | 99 | 1.5 | 10 | 0/-18 | |
| | 2 | 277 | 60 | 0.22 | .93 | 1.55 | 97 | 1.5 | 10 | 0/-18 | |

Safety and performance






 FCC – CLASS A Non-Consumer

 Product is compliant with material restriction requirements of RoHS

Ballasts
 T8 Instant Start
 T8 Programmed Start
 T8/T5 Dimming
 T5 Electronic Programmed Start
 T12 Electronic & High Output
 Magnetic
 Sign
 Compact Fluorescent
 HID Electronic & Electromagnetic

UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

71723 – GE432MAXP-H/ULTRA

UltraMax® P-Series Instant Start

Multi-Voltage High-Efficiency

4 or 3 – F32T8 120 to 277 “H” 1.18 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

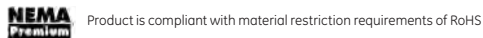
| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 71723 | 71724 | | |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1D – see example on Page 10-61 | |
| Case dimensions – Ref Drawing - A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.05 in (27 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.4lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Red & Blue | 31 in (787 mm) |
| Yellow | 39 in (991 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 4 | 120 | 148 | 1.30 | 1.18 | .80 | 99 | 1.4 | 10 | -22/-30 |
| | 4 | 277 | 146 | 0.55 | 1.18 | .81 | 98 | 1.4 | 10 | -22/-30 |
| | 3 | 120 | 119 | 1.07 | 1.28 | 1.08 | 99 | 1.4 | 10 | -22/-30 |
| | 3 | 277 | 117 | 0.46 | 1.28 | 1.09 | 97 | 1.4 | 15 | -22/-30 |
| | 4 | 120 | 139 | 1.21 | 1.18 | .85 | 99 | 1.4 | 10 | 50/10 |
| | 4 | 277 | 136 | 0.51 | 1.18 | .87 | 97 | 1.4 | 10 | 50/10 |
| F32T8/WM | 3 | 120 | 113 | 0.99 | 1.25 | 1.11 | 99 | 1.4 | 10 | 50/10 |
| | 3 | 277 | 112 | 0.41 | 1.25 | 1.12 | 97 | 1.4 | 16 | 50/10 |
| | 4 | 120 | 127 | 1.10 | 1.18 | .93 | 99 | 1.4 | 10 | 50/10 |
| | 4 | 277 | 125 | 0.48 | 1.18 | .94 | 98 | 1.4 | 10 | 50/10 |
| | 3 | 120 | 105 | 0.91 | 1.24 | 1.18 | 99 | 1.4 | 10 | 50/10 |
| | 3 | 277 | 102 | 0.40 | 1.24 | 1.22 | 97 | 1.4 | 16 | 50/10 |
| F28T8 | 4 | 120 | 120 | 1.06 | 1.18 | .98 | 99 | 1.4 | 10 | 60/16 |
| | 4 | 277 | 116 | 0.45 | 1.18 | 1.02 | 98 | 1.4 | 10 | 60/16 |
| | 3 | 120 | 99 | 0.88 | 1.24 | 1.25 | 99 | 1.4 | 10 | 60/16 |
| | 3 | 277 | 95 | 0.38 | 1.24 | 1.31 | 97 | 1.4 | 10 | 60/16 |
| | 4 | 120 | 119 | 0.45 | 1.16 | .97 | 97 | 1.4 | 10 | -22/-30 |
| | 4 | 277 | 121 | 1.06 | 1.16 | .96 | 99 | 1.4 | 10 | -22/-30 |
| F25T8 | 3 | 120 | 101 | 0.87 | 1.27 | 1.26 | 99 | 1.4 | 10 | -22/-30 |
| | 3 | 277 | 100 | 0.38 | 1.27 | 1.27 | 96 | 1.4 | 17 | -22/-30 |
| | 4 | 120 | 79 | 0.62 | 1.16 | 1.47 | 99 | 1.4 | 10 | -22/-30 |
| | 4 | 277 | 78 | 0.31 | 1.16 | 1.49 | 96 | 1.4 | 10 | -22/-30 |
| | 3 | 120 | 62 | 0.57 | 1.25 | 2.02 | 99 | 1.4 | 10 | -22/-30 |
| | 3 | 277 | 62 | 0.27 | 1.25 | 2.02 | 95 | 1.4 | 21 | -22/-30 |
| F17T8 | 4 | 120 | 62 | 0.54 | 1.03 | 1.66 | 99 | 1.4 | 10 | 0/-18 |
| | 4 | 277 | 62 | 0.26 | 1.03 | 1.66 | 95 | 1.4 | 20 | 0/-18 |
| | 3 | 120 | 51 | 0.45 | 1.12 | 2.20 | 99 | 1.4 | 10 | 0/-18 |
| | 3 | 277 | 52 | 0.22 | 1.12 | 2.15 | 92 | 1.4 | 20 | 0/-18 |
| | 3 | 120 | 146 | 1.27 | 1.22 | .84 | 99 | 1.4 | 10 | -22/-30 |
| | 3 | 277 | 142 | 0.54 | 1.22 | .86 | 97 | 1.4 | 14 | -22/-30 |
| F40T8 | 4 | 120 | 125 | 1.10 | 1.11 | .89 | 99 | 1.4 | 10 | 0/-18 |
| | 4 | 277 | 122 | 0.47 | 1.11 | .91 | 97 | 1.4 | 14 | 0/-18 |
| | 3 | 120 | 101 | 0.90 | 1.22 | 1.21 | 99 | 1.4 | 10 | 0/-18 |
| | 3 | 277 | 100 | 0.39 | 1.22 | 1.22 | 97 | 1.4 | 17 | 0/-18 |

Safety and performance



UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

78625 – GE432MAXP-L/ULTRA

UltraMax® P-Series Instant Start

Multi-Voltage High-Efficiency

4 or 3 – F32T8 120 to 277 “L” .77 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 78625 | | | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1D – see example on Page 10-61 | |
| Case dimensions – Ref Drawing - A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.9 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Red & Blue | 31 in (787 mm) |
| Yellow | 39 in (991 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F32T8 | 4 | 120 | 98 | 0.82 | .78 | .80 | 99 | 1.5 | 10 | -22/-30 | |
| | 4 | 277 | 96 | 0.35 | .78 | .81 | 98 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 84 | 0.72 | .88 | 1.05 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 83 | 0.31 | .88 | 1.06 | 98 | 1.5 | 10 | -22/-30 | |
| | 4 | 120 | 92 | 0.79 | .76 | .83 | 99 | 1.5 | 10 | -22/-30 | |
| | 4 | 277 | 91 | 0.34 | .76 | .84 | 98 | 1.5 | 10 | -22/-30 | |
| F32T8/WM | 3 | 120 | 77 | 0.66 | .83 | 1.08 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 76 | 0.28 | .83 | 1.09 | 97 | 1.5 | 10 | -22/-30 | |
| | 4 | 120 | 85 | 0.72 | .75 | .88 | 99 | 1.5 | 10 | -22/-30 | |
| | 4 | 277 | 84 | 0.31 | .75 | .89 | 98 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 68 | 0.59 | .81 | 1.19 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 67 | 0.26 | .81 | 1.21 | 97 | 1.5 | 10 | -22/-30 | |
| F28T8 | 4 | 120 | 78 | 0.66 | .77 | .99 | 99 | 1.5 | 10 | -22/-30 | |
| | 4 | 277 | 77 | 0.29 | .77 | 1.00 | 98 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 62 | 0.52 | .81 | 1.31 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 61 | 0.22 | .81 | 1.33 | 97 | 1.5 | 10 | -22/-30 | |
| | 4 | 120 | 80 | 0.67 | .76 | .95 | 99 | 1.5 | 10 | -22/-30 | |
| | 4 | 277 | 79 | 0.29 | .76 | .96 | 98 | 1.5 | 10 | -22/-30 | |
| F25T8 | 3 | 120 | 66 | 0.55 | .84 | 1.27 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 65 | 0.25 | .84 | 1.29 | 97 | 1.5 | 10 | -22/-30 | |
| | 4 | 120 | 56 | 0.47 | .79 | 1.41 | 99 | 1.5 | 10 | -22/-30 | |
| | 4 | 277 | 56 | 0.21 | .79 | 1.41 | 96 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 47 | 0.40 | .86 | 1.83 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 47 | 0.18 | .86 | 1.83 | 95 | 1.5 | 15 | -22/-30 | |
| F17T8 | 4 | 120 | 44 | 0.38 | .76 | 1.73 | 99 | 1.5 | 10 | -22/-30 | |
| | 4 | 277 | 44 | 0.18 | .76 | 1.73 | 95 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 36 | 0.32 | .76 | 2.11 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 37 | 0.15 | .76 | 2.05 | 93 | 1.5 | 15 | -22/-30 | |
| | 4 | 120 | 81 | 0.69 | .76 | .94 | 99 | 1.5 | 10 | 0/-18 | |
| | 4 | 277 | 81 | 0.30 | .76 | .94 | 98 | 1.5 | 10 | 0/-18 | |
| FE15T8 | 3 | 120 | 68 | 0.58 | .76 | 1.12 | 99 | 1.5 | 10 | 0/-18 | |
| | 3 | 277 | 67 | 0.25 | .76 | 1.13 | 97 | 1.5 | 10 | 0/-18 | |

Safety and performance



Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

78627 – GE432MAXP-N/ULTRA

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency

4 or 3 – F32T8 120 to 277 “N” .87 BF UltraMax P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 78627 | | 71730 | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 1D – see example on Page 10-61 | |
| Case dimensions – Ref Drawing – A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.9 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Red & Blue | 31 in (787 mm) |
| Yellow | 39 in (991 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 4 | 120 | 110 | 0.93 | .88 | .80 | 99 | 1.5 | 10 | -22/-30 |
| | 4 | 277 | 108 | 0.4 | .88 | .81 | 98 | 1.5 | 10 | -22/-30 |
| | 3 | 120 | 92 | 0.78 | .96 | 1.04 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 91 | 0.34 | .96 | 1.05 | 98 | 1.5 | 10 | -22/-30 |
| | 4 | 120 | 103 | 0.87 | .88 | .85 | 99 | 1.5 | 10 | -22/-30 |
| | 4 | 277 | 101 | 0.37 | .88 | .87 | 98 | 1.5 | 10 | -22/-30 |
| F32T8/WM | 3 | 120 | 85 | 0.73 | .97 | 1.14 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 84 | 0.31 | .97 | 1.15 | 98 | 1.5 | 10 | -22/-30 |
| | 4 | 120 | 94 | 0.80 | .84 | .89 | 99 | 1.5 | 10 | -22/-30 |
| F28T8 | 4 | 277 | 92 | 0.34 | .84 | .91 | 98 | 1.5 | 10 | -22/-30 |
| | 3 | 120 | 77 | 0.66 | .93 | 1.21 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 76 | 0.29 | .93 | 1.22 | 98 | 1.5 | 10 | -22/-30 |
| | 4 | 120 | 87 | 0.73 | .87 | 1.00 | 99 | 1.5 | 10 | -22/-30 |
| | 4 | 277 | 87 | 0.32 | .87 | 1.00 | 98 | 1.5 | 10 | -22/-30 |
| | 3 | 120 | 72 | 0.60 | .89 | 1.24 | 99 | 1.5 | 10 | -22/-30 |
| F32T8/25W | 3 | 277 | 71 | 0.26 | .89 | 1.25 | 97 | 1.5 | 10 | -22/-30 |
| | 4 | 120 | 89 | 0.74 | .86 | .97 | 99 | 1.5 | 10 | -22/-30 |
| | 4 | 277 | 88 | 0.32 | .86 | .98 | 98 | 1.5 | 10 | -22/-30 |
| F25T8 | 3 | 120 | 74 | 0.62 | .97 | 1.31 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 73 | 0.27 | .97 | 1.33 | 97 | 1.5 | 10 | -22/-30 |
| | 4 | 120 | 61 | 0.53 | .89 | 1.46 | 99 | 1.5 | 10 | -22/-30 |
| | 4 | 277 | 61 | 0.23 | .89 | 1.46 | 97 | 1.5 | 10 | -22/-30 |
| F17T8 | 3 | 120 | 51 | 0.44 | .99 | 1.94 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 51 | 0.20 | .99 | 1.94 | 96 | 1.5 | 10 | -22/-30 |
| | 4 | 120 | 48 | 0.42 | .77 | 1.60 | 99 | 1.5 | 10 | -22/-30 |
| FE15T8 | 4 | 277 | 48 | 0.19 | .77 | 1.60 | 96 | 1.5 | 10 | -22/-30 |
| | 3 | 120 | 41 | 0.35 | .85 | 2.07 | 99 | 1.5 | 10 | -22/-30 |
| | 3 | 277 | 40 | 0.17 | .85 | 2.13 | 94 | 1.5 | 10 | -22/-30 |
| | 4 | 120 | 91 | 0.78 | .79 | .87 | 99 | 1.5 | 10 | 0/-18 |
| | 4 | 277 | 90 | 0.33 | .79 | .88 | 98 | 1.5 | 10 | 0/-18 |
| | 3 | 120 | 76 | 0.65 | .87 | 1.14 | 99 | 1.5 | 10 | 0/-18 |
| F25T12 | 3 | 277 | 75 | 0.28 | .87 | 1.16 | 98 | 1.5 | 10 | 0/-18 |

Safety and performance



NEMA Premium Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

71423 – GE432MAXP-N+

UltraMax® P-Series Instant Start
Multi-Voltage High-Efficiency
4 or 3 – F32T8 120 to 277 “N+” 1.0 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal-High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |


| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |




| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 71423 | | | |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1D – see example on Page 10-61 | |
| Case dimensions – Ref Drawing – A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 2.4 in (61 mm) |
| Height (H) | 1.6 in (40 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.7 in (43 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 2.16lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 12 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Red & Blue | 31 in (787 mm) |
| Yellow | 47 in (1194 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F32T8 | 4 | 120 | 124 | 1.03 | 1.00 | .81 | 99 | 1.5 | 10 | -22/-30 | |
| | 4 | 277 | 121 | 0.45 | 1.00 | .83 | 98 | 1.5 | 10 | -22/-30 | |
| | 3 | 120 | 97 | 0.81 | 0.97 | 1.00 | 99 | 1.5 | 10 | -22/-30 | |
| | 3 | 277 | 113 | 0.45 | 1.15 | 1.02 | 97 | 1.5 | 10 | -22/-30 | |
| | 4 | 120 | 119 | 1 | 1.00 | .84 | 99 | 1.5 | 10 | 60/16 | |
| | 4 | 277 | 117 | 0.44 | 1.00 | .86 | 98 | 1.5 | 10 | 60/16 | |
| F32T8/WM | 3 | 120 | 92 | 0.77 | .99 | 1.08 | 99 | 1.5 | 10 | 60/16 | |
| | 3 | 277 | 92 | 0.35 | .99 | 1.08 | 97 | 1.5 | 10 | 60/16 | |
| | 4 | 120 | 114 | 0.95 | 1.00 | .88 | 99 | 1.5 | 10 | 60/16 | |
| | 4 | 277 | 96 | 0.36 | 1.00 | 1.04 | 97 | 1.5 | 10 | 60/16 | |
| | 3 | 120 | 89 | 0.74 | .99 | 1.12 | 99 | 1.5 | 10 | 60/16 | |
| | 3 | 277 | 88 | 0.33 | .99 | 1.13 | 96 | 1.5 | 10 | 60/16 | |
| F28T8 | 4 | 120 | 110 | 0.92 | .96 | .87 | 99 | 1.5 | 10 | 0/-18 | |
| | 4 | 277 | 108 | 0.14 | .96 | .89 | 97 | 1.5 | 10 | 0/-18 | |
| | 3 | 120 | 86 | 0.72 | .97 | 1.13 | 99 | 1.5 | 10 | 0/-18 | |
| | 3 | 277 | 86 | 0.32 | .97 | 1.13 | 96 | 1.5 | 10 | 0/-18 | |

Safety and performance



 FCC – CLASS A Non-Consumer

 Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series

Instant Start Multi-Voltage 120–277V High-Efficiency

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

74117 – GE632MAXP-H90

UltraMax® P-Series Instant Start

Multi-Voltage High-Efficiency

6 or 5 – F32T8 120 to 277 "H" 1.18 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>95%)
- Multi-voltage technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- High temperature 90°C max case
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A(20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-----------|
| Supply Current Frequency | 50Hz/60Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74117 | | | |

| Dimensions | |
|---|-------------------|
| Wiring diagram – LFL 6H – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 11.75 in (299 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 3.1lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Red & Blue | 34 in (864 mm) |
| Yellow | 36 in (914 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 6 | 120 | 221 | 1.94 | 1.18 | .53 | 99 | 1.5 | 10 | -20/-29 |
| | 6 | 277 | 215 | 0.82 | 1.18 | .55 | 97 | 1.5 | 10 | -20/-29 |
| | 5 | 120 | 197 | 1.73 | 1.25 | .63 | 99 | 1.5 | 10 | -20/-29 |
| | 5 | 277 | 192 | 0.73 | 1.25 | .65 | 97 | 1.5 | 13 | -20/-29 |
| | 6 | 120 | 205 | 1.8 | 1.18 | .58 | 99 | 1.5 | 10 | 60/16 |
| | 6 | 277 | 200 | 0.76 | 1.18 | .59 | 97 | 1.5 | 10 | 60/16 |
| F32T8/WM | 5 | 120 | 182 | 1.6 | 1.23 | .68 | 99 | 1.5 | 10 | 60/16 |
| | 5 | 277 | 178 | 0.68 | 1.23 | .69 | 96 | 1.5 | 16 | 60/16 |
| | 6 | 120 | 187 | 1.64 | 1.18 | .63 | 99 | 1.5 | 10 | 60/16 |
| | 6 | 277 | 184 | 0.7 | 1.18 | .64 | 96 | 1.5 | 13 | 60/16 |
| | 5 | 120 | 166 | 1.45 | 1.20 | .72 | 99 | 1.5 | 10 | 60/16 |
| | 5 | 277 | 164 | 0.63 | 1.20 | .73 | 96 | 1.5 | 16 | 60/16 |
| F28T8 | 6 | 120 | 178 | 1.57 | 1.18 | .66 | 99 | 1.5 | 10 | -20/-29 |
| | 6 | 277 | 176 | 0.68 | 1.18 | .67 | 96 | 1.5 | 16 | -20/-29 |
| | 5 | 120 | 159 | 1.4 | 1.16 | .73 | 99 | 1.5 | 10 | -20/-29 |
| | 5 | 277 | 157 | 0.61 | 1.16 | .74 | 95 | 1.5 | 18 | -20/-29 |
| | 6 | 120 | 122 | 1.08 | 1.17 | .96 | 99 | 1.5 | 10 | -20/-29 |
| | 6 | 277 | 121 | 0.5 | 1.17 | .97 | 90 | 1.5 | 24 | -20/-29 |
| F17T8 | 5 | 120 | 107 | 0.95 | 1.24 | 1.16 | 99 | 1.5 | 10 | -20/-29 |
| | 5 | 277 | 106 | 0.44 | 1.24 | 1.17 | 88 | 1.5 | 26 | -20/-29 |
| | 5 | 120 | 231 | 2.03 | 1.18 | .51 | 99 | 1.5 | 10 | 0/-18 |
| F40T8 | 5 | 277 | 225 | 0.86 | 1.18 | .52 | 97 | 1.5 | 10 | 0/-18 |

Safety and performance



NEMA Premium Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For 46–59W 4ft–8ft Slimline Lamps

49767 – GE259MAXP-N/ULTRA

UltraMax® P-Series Instant Start

Multi-Voltage High-Efficiency

2 or 1 – F96T8 120 to 277 “N” 0.87 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- Anti-striation control for better light quality
- Cold temperature 0°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20–24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |


| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|-------------------|---------|
| 10 Pack 49767 | Pallet Pack | DIY Pack 23954 | IP Pack |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1B – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.4 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 22 in (559 mm) |
| White | 22 in (559 mm) |
| Blue | 46 in (1168 mm) |
| Red | 78 in (1981 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F96T8 | 2 | 120 | 107 | 0.91 | .87 | .81 | 99 | 1.7 | 10 | 0/-18 | |
| | 2 | 277 | 105 | 0.4 | .87 | .83 | 98 | 1.7 | 15 | 0/-18 | |
| | 1 | 120 | 62 | 0.53 | .87 | 1.40 | 99 | 1.7 | 10 | 0/-18 | |
| | 1 | 277 | 62 | 0.24 | .87 | 1.40 | 97 | 1.7 | 20 | 0/-18 | |
| | 2 | 120 | 102 | 0.87 | .87 | .85 | 99 | 1.7 | 10 | 50/10 | |
| | 2 | 277 | 100 | 0.38 | .87 | .87 | 98 | 1.7 | 15 | 50/10 | |
| F96T8/WM | 1 | 120 | 59 | 0.5 | .87 | 1.47 | 99 | 1.7 | 10 | 50/10 | |
| | 1 | 277 | 59 | 0.23 | .87 | 1.47 | 97 | 1.7 | 20 | 50/10 | |
| | 2 | 120 | 85 | 0.78 | .89 | 1.05 | 99 | 1.7 | 10 | 50/10 | |
| | 2 | 277 | 84 | 0.32 | .89 | 1.06 | 98 | 1.7 | 15 | 50/10 | |
| | 1 | 120 | 59 | 0.5 | .87 | 1.47 | 99 | 1.7 | 10 | 50/10 | |
| | 1 | 277 | 59 | 0.23 | .87 | 1.47 | 97 | 1.7 | 20 | 50/10 | |
| F96T8/WMP | 2 | 120 | 79 | 0.72 | .89 | 1.13 | 99 | 1.7 | 10 | 0/-18 | |
| | 2 | 277 | 78 | 0.29 | .89 | 1.14 | 98 | 1.7 | 13 | 0/-18 | |
| | 1 | 120 | 44 | 0.39 | .87 | 1.98 | 99 | 1.7 | 10 | 0/-18 | |
| | 1 | 277 | 44 | 0.17 | .87 | 1.98 | 96 | 1.7 | 20 | 0/-18 | |

Safety and performance  UL US LISTED  UL Class P  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer

 **NEMA Premium** Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series Instant Start Multi-Voltage 120–277V High-Efficiency T8 Instant Start Ballasts For 46-59W 4ft-8ft Slimline Lamps

73199 – GE259MAXP-L/ULTRA

UltraMax® P-Series Instant Start

Multi-Voltage High-Efficiency

2 or 1 – F96T8 120 to 277 “L” 0.77 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Multi-voltage technology handles voltage from 120 to 277V
- Anti-striation control for better light quality
- Cold temperature 0°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

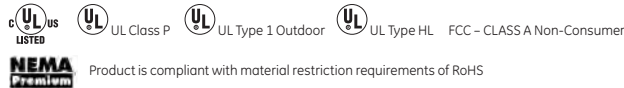
| Electrical characteristics | |
|----------------------------|------------|
| Supply Current Frequency | 50Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 73199 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F96T8 | 2 | 120 | 95 | 0.81 | .77 | .81 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 94 | 0.35 | .77 | .82 | 99 | 1.7 | 15 | 0/-18 |
| | 1 | 120 | 59 | 0.5 | .92 | 1.56 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 59 | 0.22 | .92 | 1.56 | 97 | 1.7 | 20 | 0/-18 |
| F96T8/WM | 2 | 120 | 93 | 0.79 | .77 | .83 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 91 | 0.34 | .77 | .85 | 98 | 1.7 | 15 | 60/16 |
| | 1 | 120 | 58 | 0.48 | .92 | 1.59 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 58 | 0.21 | .92 | 1.59 | 97 | 1.7 | 20 | 60/16 |
| F96T8/WMP | 2 | 120 | 89 | 0.74 | .77 | .87 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 87 | 0.32 | .77 | .89 | 98 | 1.7 | 15 | 60/16 |
| | 1 | 120 | 54 | 0.5 | .92 | 1.70 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 54 | 0.2 | .92 | 1.70 | 96 | 1.7 | 20 | 60/16 |
| F72T8 | 2 | 120 | 65 | 0.54 | .79 | 1.22 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 64 | 0.24 | .79 | 1.23 | 97 | 1.7 | 13 | 0/-18 |
| | 1 | 120 | 41 | 0.34 | .94 | 2.29 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 41 | 0.16 | .94 | 2.29 | 97 | 1.7 | 20 | 0/-18 |

Safety and performance



UltraMax® Professional Series MultiVolt High Output 120-277V T8 Instant Start Ballasts For 44-86W 4ft-8ft HO Lamps

63888 – GE286MAXP-HO-N

UltraMax® P-Series Multivolt High Output 120V-277V

2 or 1 – F96T8HO IS 120 to 277 “N” 0.87 BF

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 63888 | | | |

Dimensions

Wiring diagram – LFL 1B – see example on Page 10-61

Case dimensions – Ref Drawing - A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.05 in (27 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------|-----------------|
| Black | 22 in (559 mm) |
| White | 22 in (559 mm) |
| Blue | 46 in (1168 mm) |
| Red | 78 in (1981 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F96T849W | 2 | 120 | 111 | 0.95 | 1.37 | 1.23 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 110 | 0.41 | 1.37 | 1.25 | 97 | 1.7 | 10 | -22/-30 |
| | 1 | 120 | 70 | 0.58 | 1.63 | 2.33 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 70 | 0.26 | 1.63 | 2.33 | 95 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 124 | 1.10 | 1.37 | 1.10 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 122 | 0.46 | 1.37 | 1.12 | 98 | 1.7 | 10 | -22/-30 |
| F96T8WMP | 1 | 120 | 77 | 0.68 | 1.63 | 2.11 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 77 | 0.30 | 1.63 | 2.11 | 96 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 135 | 1.18 | 1.14 | .85 | 99 | 1.7 | 10 | -22/-30 |
| F96T8WM | 2 | 277 | 133 | 0.50 | 1.15 | .86 | 98 | 1.7 | 10 | -22/-30 |
| | 1 | 120 | 84 | 0.73 | 1.35 | 1.61 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 84 | 0.32 | 1.35 | 1.61 | 96 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 145 | 1.25 | .78 | .54 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 142 | 0.54 | .78 | .55 | 98 | 1.7 | 10 | -22/-30 |
| F96T8HO | 1 | 120 | 91 | 0.78 | .91 | 1.01 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 90 | 0.35 | .92 | 1.02 | 97 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 142 | 1.24 | 1.15 | .81 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 140 | 0.52 | 1.15 | .82 | 98 | 1.7 | 10 | -22/-30 |
| F96T8 | 1 | 120 | 88 | 0.76 | 1.35 | 1.54 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 87 | 0.34 | 1.36 | 1.56 | 97 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 115 | 1.02 | .82 | .71 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 114 | 0.43 | .82 | .72 | 97 | 1.7 | 16 | -22/-30 |
| F72T8HO | 1 | 120 | 73 | 0.64 | .95 | 1.30 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 72 | 0.28 | .95 | 1.31 | 95 | 1.7 | 22 | -22/-30 |
| | 2 | 120 | 95 | 0.84 | .81 | .86 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 92 | 0.35 | .81 | .88 | 97 | 1.7 | 18 | -22/-30 |
| F60T8HO | 1 | 120 | 60 | 0.53 | .95 | 1.58 | 99 | 1.7 | 11 | -22/-30 |
| | 1 | 277 | 62 | 0.24 | .95 | 1.53 | 94 | 1.7 | 23 | -22/-30 |
| | 2 | 120 | 78 | 0.68 | .79 | 1.01 | 99 | 1.7 | 10 | -22/-30 |
| F58T8 | 2 | 277 | 78 | 0.30 | .79 | 1.01 | 96 | 1.7 | 10 | -22/-30 |
| | 1 | 120 | 49 | 0.43 | .93 | 1.91 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 50 | 0.20 | .93 | 1.87 | 93 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 78 | 0.70 | .82 | 1.05 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 77 | 0.30 | .82 | 1.06 | 96 | 1.7 | 21 | -22/-30 |
| F48T8HO | 1 | 120 | 51 | 0.45 | .95 | 1.87 | 99 | 1.7 | 13 | -22/-30 |
| | 1 | 277 | 51 | 0.20 | .95 | 1.87 | 93 | 1.7 | 26 | -22/-30 |
| | 2 | 120 | 97 | 0.85 | 1.20 | 1.24 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 96 | 0.37 | 1.20 | 1.25 | 97 | 1.7 | 10 | -22/-30 |
| F40T8 | 1 | 120 | 62 | 0.52 | 1.39 | 2.24 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 62 | 0.24 | 1.37 | 2.21 | 95 | 1.7 | 10 | -22/-30 |

Safety and performance



UL Class P



UL Type 1 Outdoor



UL Type HL

FCC – CLASS A Non-Consumer

Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series 347V High-Efficiency T8 Instant Start Ballasts

74093 – GE232MAXP347-N

UltraMax® P-Series 347V High-Efficiency

2 or 1 – F32T8 347V “N” 0.87 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Instant start ballast for long lamp starting cycles and low initial cost
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature
- Parallel lamp operation means system maintenance is easier to manage

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |





| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 18 – see example on Page 10-61 | |
| Case dimensions – Ref Drawing – A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.04 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |


| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74093 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 2 | 347 | 53 | 0.15 | 0.87 | 1.65 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 347 | 34 | 0.10 | 1.02 | 3.03 | 97 | 1.7 | 10 | -22/-30 |
| F32T8/WM | 2 | 347 | 50 | 0.15 | 0.86 | 1.72 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 32 | 0.09 | 1.02 | 3.20 | 97 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 347 | 46 | 0.14 | 0.84 | 1.81 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 30 | 0.09 | 1.01 | 3.38 | 97 | 1.7 | 10 | 60/16 |
| F32T8/25W | 2 | 347 | 42 | 0.12 | 0.84 | 2.00 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 41 | 0.12 | 0.88 | 2.12 | 98 | 1.7 | 10 | -22/-30 |
| F25T8 | 2 | 347 | 26 | 0.08 | 1.03 | 3.89 | 90 | 1.7 | 25 | -22/-30 |
| | 1 | 347 | 35 | 0.11 | 0.88 | 2.51 | 98 | 1.7 | 10 | 60/16 |
| F25T8/WM | 2 | 347 | 30 | 0.09 | 0.83 | 2.78 | 96 | 1.7 | 10 | -22/-30 |
| | 1 | 347 | 20 | 0.07 | 0.98 | 5.00 | 80 | 1.7 | 50 | -22/-30 |
| F17T8 | 2 | 347 | 25 | 0.08 | 0.83 | 3.32 | 97 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 24 | 0.08 | 0.76 | 3.19 | 88 | 1.7 | 32 | -22/-30 |
| FE15T8 | 2 | 347 | 16 | 0.06 | 0.88 | 5.52 | 77 | 1.7 | 69 | -22/-30 |
| | 1 | 347 | 44 | 0.13 | 0.89 | 2.03 | 98 | 1.7 | 10 | -22/-30 |
| F25T12 | 1 | 347 | 29 | 0.09 | 1.08 | 3.76 | 96 | 1.7 | 10 | -22/-30 |

Safety and performance


 UL Class P
  UL Type 1 Outdoor
  UL Type HL
 ICES-005 for EMI and RFI
 FCC – CLASS A Non-Consumer


 ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991
 Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series 347V High-Efficiency T8 Instant Start Ballasts

67435 – GE232MAXP347-N+

UltraMax® P-Series 347V High-Efficiency

2 or 1 – F32T8 347V “N+” 1.0 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Instant start ballast for long lamp starting cycles and low initial cost
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature
- Parallel lamp operation means system maintenance is easier to manage

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal-High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 67435 | | | |

Dimensions

Wiring diagram – LFL 18 – see example on Page 10-61

Case dimensions – Ref Drawing – A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.04 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |






Lead lengths

| | |
|-------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 2 | 347 | 61 | 0.17 | 1.00 | 1.64 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 347 | 57 | 0.17 | .96 | 1.68 | 99 | 1.7 | 10 | 60/16 |
| F32T8/WM | 2 | 347 | 53 | 0.15 | .94 | 1.77 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 48 | 0.14 | .99 | 2.06 | 98 | 1.7 | 10 | -22/-30 |
| F28T8 | 2 | 347 | 34 | 0.11 | .94 | 2.76 | 91 | 1.7 | 29 | -22/-30 |
| | 1 | 347 | 25 | 0.08 | .85 | 3.40 | 88 | 1.7 | 46 | -22/-30 |
| F25T8 | 2 | 347 | 50 | 0.15 | 1.01 | 2.02 | 98 | 1.7 | 10 | -22/-30 |
| | 1 | 347 | | | | | | | | |

Safety and performance





 ICES-005 for EMI and RFI FCC – CLASS A Non-Consumer

 ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series 347V High-Efficiency T8 Instant Start Ballasts

74094 – GE332MAXP347-N

UltraMax® P-Series 347V High-Efficiency

3 or 2 – F32T8 347V “N” 0.87 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Instant start ballast for long lamp starting cycles and low initial cost
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature
- Parallel lamp operation means system maintenance is easier to manage

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 74094 | | | |

Dimensions

Wiring diagram – LFL 1C – see example on Page 10-61

Case dimensions – Ref Drawing – A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.15lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 3 | 347 | 79 | 0.23 | 0.87 | 1.10 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 347 | 60 | 0.17 | 0.98 | 1.63 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 347 | 75 | 0.22 | 0.86 | 1.15 | 99 | 1.7 | 10 | 60/16 |
| F32T8/WM | 2 | 347 | 57 | 0.17 | 0.96 | 1.68 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 70 | 0.20 | 0.84 | 1.20 | 99 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 347 | 53 | 0.15 | 0.94 | 1.77 | 99 | 1.7 | 10 | 60/16 |
| F32T8/25W | 3 | 347 | 63 | 0.18 | 0.84 | 1.33 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 62 | 0.18 | 0.88 | 1.42 | 99 | 1.7 | 10 | -22/-30 |
| F25T8 | 2 | 347 | 48 | 0.14 | 0.99 | 2.06 | 99 | 1.7 | 10 | -22/-30 |
| F25T8/WM | 3 | 347 | 53 | 0.15 | 0.88 | 1.66 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 43 | 0.13 | 0.84 | 1.95 | 98 | 1.7 | 10 | -22/-30 |
| F17T8 | 2 | 347 | 34 | 0.11 | 0.94 | 2.76 | 91 | 1.7 | 29 | -22/-30 |
| F17T8/WM | 3 | 347 | 36 | 0.11 | 0.84 | 2.33 | 98 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 33 | 0.10 | 0.76 | 2.30 | 97 | 1.7 | 13 | -22/-30 |
| FE15T8 | 2 | 347 | 25 | 0.08 | 0.85 | 3.40 | 89 | 1.7 | 46 | -22/-30 |
| | 3 | 347 | 65 | 0.19 | 0.89 | 1.37 | 99 | 1.7 | 10 | -22/-30 |
| F25T12 | 2 | 347 | 50 | 0.15 | 1.01 | 2.02 | 99 | 1.7 | 10 | -22/-30 |

Safety and performance





 ICES-005 for EMI and RFI FCC – CLASS A Non-Consumer


 ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series 347V High-Efficiency T8 Instant Start Ballasts

74095 – GE432MAXP347-N

UltraMax® P-Series 347V High-Efficiency

4 or 3 – F32T8 347V “N” 0.87 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Instant start ballast for long lamp starting cycles and low initial cost
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature
- Parallel lamp operation means system maintenance is easier to manage

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| | | | |
|----------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74095 | | | |

Dimensions

Wiring diagram – LFL 1D – see example on Page 10-61

Case dimensions – Ref Drawing -A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.15lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|------------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Red & Blue | 31 in (787 mm) |
| Yellow | 47 in (1194 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 4 | 347 | 106 | 0.30 | 0.88 | .83 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 347 | 87 | 0.25 | 0.94 | 1.08 | 99 | 1.7 | 10 | -22/-30 |
| | 4 | 347 | 100 | 0.29 | 0.86 | .86 | 99 | 1.7 | 10 | 60/16 |
| F32T8/W/M | 3 | 347 | 83 | 0.24 | 0.92 | 1.11 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 93 | 0.27 | 0.84 | .90 | 99 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 347 | 77 | 0.22 | 0.90 | 1.17 | 99 | 1.7 | 10 | 60/16 |
| F32T8/25W | 4 | 347 | 84 | 0.24 | 0.84 | 1.00 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 83 | 0.24 | 0.88 | 1.06 | 99 | 1.7 | 10 | -22/-30 |
| F25T8 | 3 | 347 | 69 | 0.20 | 0.95 | 1.38 | 99 | 1.7 | 10 | -22/-30 |
| F25T8/W/M | 4 | 347 | 71 | 0.21 | 0.88 | 1.24 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 58 | 0.17 | 0.83 | 1.43 | 99 | 1.7 | 10 | -22/-30 |
| F17T8 | 3 | 347 | 48 | 0.14 | 0.90 | 1.88 | 98 | 1.7 | 12 | -22/-30 |
| F17T8/W/M | 4 | 347 | 50 | 0.15 | 0.83 | 1.66 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 46 | 0.14 | 0.80 | 1.74 | 98 | 1.7 | 15 | -22/-30 |
| FE15T8 | 3 | 347 | 38 | 0.11 | 0.82 | 2.16 | 97 | 1.7 | 17 | -22/-30 |
| | 4 | 347 | 88 | 0.25 | 0.88 | 1.00 | 99 | 1.7 | 10 | -22/-30 |
| F25T12 | 3 | 347 | 73 | 0.21 | 0.96 | 1.32 | 99 | 1.7 | 10 | -22/-30 |

Safety and performance


 UL Class P
  UL Type 1 Outdoor
  UL Type HL
 ICES-005 for EMI and RFI
 FCC – CLASS A Non-Consumer


 ANSI - C82.11 - Cons 2002.
 ANSI - C62.41 - 1991
 Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series 347V High-Efficiency T8 Instant Start Ballasts

74096 – GE232MAXP347-L

UltraMax® P-Series 347V High-Efficiency

2 or 1 – F32T8 347V “L” 0.77 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Instant start ballast for long lamp starting cycles and low initial cost
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature
- Parallel lamp operation means system maintenance is easier to manage

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A(20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 74096 | | | |

Dimensions

Wiring diagram – LFL 18 – see example on Page 10-61

Case dimensions – Ref Drawing – A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.04 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |





Lead lengths

| | |
|-------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 2 | 347 | 48 | 0.14 | 0.77 | 1.60 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 347 | 30 | 0.10 | 0.90 | 3.00 | 87 | 1.7 | 37 | -22/-30 |
| F32T8/WM | 2 | 347 | 45 | 0.13 | 0.77 | 1.71 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 29 | 0.10 | 0.89 | 3.07 | 86 | 1.7 | 40 | 60/16 |
| F28T8 | 2 | 347 | 42 | 0.12 | 0.74 | 1.76 | 98 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 27 | 0.09 | 0.87 | 3.22 | 83 | 1.7 | 41 | 60/16 |
| F32T8/25W | 2 | 347 | 37 | 0.12 | 0.74 | 2.00 | 98 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 23 | 0.09 | 0.78 | 2.11 | 97 | 1.7 | 15 | -22/-30 |
| F25T8 | 2 | 347 | 31 | 0.10 | 0.78 | 2.52 | 97 | 1.7 | 15 | 60/16 |
| | 1 | 347 | 24 | 0.09 | 0.91 | 3.79 | 77 | 1.7 | 50 | -22/-30 |
| F25T8/WM | 2 | 347 | 27 | 0.09 | 0.70 | 2.59 | 84 | 1.7 | 50 | -22/-30 |
| | 1 | 347 | 18 | 0.08 | 0.86 | 4.78 | 68 | 1.7 | 53 | -22/-30 |
| F17T8 | 2 | 347 | 23 | 0.08 | 0.74 | 3.22 | 84 | 1.7 | 50 | 60/16 |
| | 1 | 347 | 22 | 0.08 | 0.67 | 3.05 | 79 | 1.7 | 54 | -22/-30 |
| FE15T8 | 2 | 347 | 15 | 0.06 | 0.77 | 5.13 | 66 | 1.7 | 56 | -22/-30 |
| | 1 | 347 | 39 | 0.11 | 0.77 | 1.97 | 98 | 1.7 | 10 | -22/-30 |
| F25T12 | 1 | 347 | 25 | 0.09 | 0.91 | 3.64 | 80 | 1.7 | 42 | -22/-30 |

Safety and performance


 UL Class P
  UL Type 1 Outdoor
  UL Type HL
 ICES-005 for EMI and RFI
 FCC – CLASS A Non-Consumer


 ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991
 Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series 347V High-Efficiency T8 Instant Start Ballasts

74097 – GE332MAXP347-L

UltraMax® P-Series 347V High-Efficiency

3 or 2 – F32T8 347V “L” 0.77 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Instant start ballast for long lamp starting cycles and low initial cost
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature
- Parallel lamp operation means system maintenance is easier to manage

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature [MAX] | 40°C (104°F) |
| Case Temperature [MAX] | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| | | | |
|----------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74097 | | | |

Dimensions

Wiring diagram – LFL 1C – see example on Page 10-61
 Case dimensions – Ref Drawing – A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.15 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |






Lead lengths

| | |
|-------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 3 | 347 | 71 | 0.21 | 0.77 | 1.08 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 347 | 55 | 0.16 | 0.86 | 1.56 | 99 | 1.7 | 10 | -22/-30 |
| F32T8/W/M | 3 | 347 | 68 | 0.20 | 0.76 | 1.12 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 52 | 0.15 | 0.85 | 1.63 | 99 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 347 | 63 | 0.18 | 0.74 | 1.17 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 48 | 0.14 | 0.82 | 1.71 | 99 | 1.7 | 10 | 60/16 |
| F32T8/25W | 3 | 347 | 55 | 0.16 | 0.73 | 1.33 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 43 | 0.13 | 0.86 | 2.00 | 98 | 1.7 | 10 | -22/-30 |
| F25T8 | 3 | 347 | 47 | 0.14 | 0.78 | 1.66 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 31 | 0.10 | 0.82 | 2.65 | 89 | 1.7 | 38 | -22/-30 |
| F17T8 | 3 | 347 | 40 | 0.12 | 0.74 | 1.85 | 98 | 1.7 | 10 | -22/-30 |
| | 2 | 347 | 30 | 0.09 | 0.67 | 2.23 | 96 | 1.7 | 13 | -22/-30 |
| F17T8/W/M | 3 | 347 | 35 | 0.11 | 0.74 | 2.11 | 98 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 23 | 0.07 | 0.74 | 3.22 | 93 | 1.7 | 19 | -22/-30 |
| FE15T8 | 3 | 347 | 58 | 0.17 | 0.77 | 1.33 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 347 | 46 | 0.13 | 0.87 | 1.89 | 99 | 1.7 | 10 | -22/-30 |

Safety and performance





 ICES-005 for EMI and RFI FCC – CLASS A Non-Consumer

 ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 Product is compliant with material restriction requirements of RoHS

Ballasts
 T8 Instant Start
 T8 Programmed Start
 T8/T5 Dimming
 T5 Electronic Programmed Start
 T12 Electronic & High Output
 Magnetic
 Sign
 Compact Fluorescent
 HID Electronic & Electromagnetic

UltraMax® Professional Series 347V High-Efficiency T8 Instant Start Ballasts

74098 – GE432MAXP347-L

UltraMax® P-Series 347V High-Efficiency

4 or 3 – F32T8 347V “L” 0.77 BF UltraMax®P

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature [MAX] | 40°C (104°F) |
| Case Temperature [MAX] | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| | | | |
|----------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74098 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 4 | 347 | 96 | 0.28 | 0.77 | .80 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 347 | 79 | 0.23 | 0.84 | 1.06 | 99 | 1.7 | 10 | -22/-30 |
| F32T8/WM | 4 | 347 | 90 | 0.26 | 0.76 | .84 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 73 | 0.21 | 0.82 | 1.12 | 99 | 1.7 | 10 | 60/16 |
| F28T8 | 4 | 347 | 84 | 0.24 | 0.74 | .88 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 69 | 0.20 | 0.81 | 1.17 | 99 | 1.7 | 10 | 60/16 |
| F32T8/25W | 4 | 347 | 74 | 0.21 | 0.74 | 1.00 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 74 | 0.21 | 0.78 | 1.05 | 99 | 1.7 | 10 | -22/-30 |
| F25T8 | 3 | 347 | 61 | 0.18 | 0.85 | 1.39 | 98 | 1.7 | 10 | -22/-30 |
| | 4 | 347 | 63 | 0.18 | 0.78 | 1.24 | 99 | 1.7 | 10 | 60/16 |
| F25T8/WM | 4 | 347 | 45 | 0.13 | 0.74 | 1.64 | 98 | 1.7 | 13 | -22/-30 |
| | 3 | 347 | 36 | 0.11 | 0.80 | 2.22 | 92 | 1.7 | 33 | -22/-30 |
| F17T8 | 4 | 347 | 38 | 0.12 | 0.74 | 1.95 | 98 | 1.7 | 13 | 60/16 |
| | 4 | 347 | 42 | 0.12 | 0.68 | 1.62 | 97 | 1.7 | 15 | -22/-30 |
| FE15T8 | 3 | 347 | 35 | 0.11 | 0.73 | 2.09 | 91 | 1.7 | 37 | -22/-30 |
| | 4 | 347 | 78 | 0.23 | 0.77 | .99 | 99 | 1.7 | 10 | -22/-30 |
| F25T12 | 3 | 347 | 65 | 0.19 | 0.84 | 1.29 | 99 | 1.7 | 10 | -22/-30 |

Safety and performance



UL Class P



UL Type 1 Outdoor



UL Type HL

ICES-005 for EMI and RFI FCC – CLASS A Non-Consumer



ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 Product is compliant with material restriction requirements of RoHS

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Instant start ballast for long lamp starting cycles and low initial cost
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature
- Parallel lamp operation means system maintenance is easier to manage

Dimensions

Wiring diagram – LFL 1D – see example on Page 10-61

Case dimensions – Ref Drawing –A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.15lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|------------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Red & Blue | 31 in (787 mm) |
| Yellow | 47 in (1194 mm) |

UltraMax® Professional Series 347V High-Efficiency T8 Instant Start Ballasts

74109 – GE232MAXP347-H

UltraMax® P-Series 347V High-Efficiency

2 or 1 – F32T8 347V “H” 1.18 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Instant start ballast for long lamp starting cycles and low initial cost
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature
- Parallel lamp operation means system maintenance is easier to manage

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74109 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 2 | 347 | 70 | 0.20 | 1.18 | 1.69 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 347 | 44 | 0.13 | 1.32 | 3.00 | 99 | 1.7 | 10 | -22/-30 |
| F32T8/WM | 2 | 347 | 67 | 0.19 | 1.15 | 1.72 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 42 | 0.12 | 1.29 | 3.07 | 99 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 347 | 63 | 0.12 | 1.30 | 2.06 | 99 | 1.7 | 17 | 60/16 |
| | 1 | 347 | 39 | 0.18 | 1.30 | 3.33 | 99 | 1.7 | 17 | 60/16 |
| F32T8/25W | 2 | 347 | 56 | 0.16 | 1.12 | 2.00 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 55 | 0.16 | 1.16 | 2.11 | 99 | 1.7 | 10 | -22/-30 |
| F25T8 | 1 | 347 | 36 | 0.11 | 1.32 | 3.67 | 99 | 1.7 | 30 | -22/-30 |
| | 2 | 347 | 47 | 0.14 | 1.16 | 2.47 | 98 | 1.7 | 10 | 60/16 |
| F25T8/WM | 2 | 347 | 37 | 0.11 | 1.10 | 2.97 | 97 | 1.7 | 12 | -22/-30 |
| | 1 | 347 | 23 | 0.08 | 1.25 | 5.43 | 87 | 1.7 | 52 | -22/-30 |
| F17T8 | 2 | 347 | 31 | 0.10 | 1.10 | 3.55 | 97 | 1.7 | 12 | 60/16 |
| | 2 | 347 | 30 | 0.09 | 1.00 | 3.33 | 94 | 1.7 | 30 | -22/-30 |
| FE15T8 | 1 | 347 | 19 | 0.07 | 1.15 | 6.05 | 82 | 1.7 | 55 | -22/-30 |
| | 1 | 347 | 53 | 0.16 | 1.24 | 2.34 | 99 | 1.7 | 10 | -22/-30 |
| F40T8 | 2 | 347 | 61 | 0.18 | 1.23 | 2.02 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 347 | 39 | 0.12 | 1.45 | 3.72 | 95 | 1.7 | 20 | -22/-30 |

Safety and performance





 ICES-005 for EMI and RFI FCC – CLASS A Non-Consumer


 ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 High Temperature Rated: Suitable for high temperature applications

70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series 347V High-Efficiency T8 Instant Start Ballasts

74111 – GE332MAXP347-H

UltraMax® P-Series 347V High-Efficiency

3 or 2 – F32T8 347V “H” 1.18 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Instant start ballast for long lamp starting cycles and low initial cost
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature
- Parallel lamp operation means system maintenance is easier to manage

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack 74111 | Pallet Pack | DIY Pack | IP Pack |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1C – see example on Page 10-61 | |
| Case dimensions – Ref Drawing - A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.15 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 3 | 347 | 105 | 0.30 | 1.18 | 1.12 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 347 | 79 | 0.23 | 1.29 | 1.63 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 347 | 100 | 0.29 | 1.15 | 1.15 | 99 | 1.7 | 10 | 60/16 |
| F32T8/WM | 2 | 347 | 76 | 0.22 | 1.27 | 1.67 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 93 | 0.27 | 1.13 | 1.22 | 99 | 1.7 | 17 | 60/16 |
| F28T8 | 2 | 347 | 71 | 0.20 | 1.26 | 1.77 | 99 | 1.7 | 17 | 60/16 |
| F32T8/25W | 3 | 347 | 85 | 0.25 | 1.13 | 1.33 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 82 | 0.24 | 1.17 | 1.43 | 99 | 1.7 | 10 | -22/-30 |
| F25T8 | 2 | 347 | 62 | 0.18 | 1.30 | 2.10 | 99 | 1.7 | 10 | -22/-30 |
| F25T8/WM | 3 | 347 | 70 | 0.20 | 1.17 | 1.67 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 60 | 0.17 | 1.10 | 1.83 | 99 | 1.7 | 10 | -22/-30 |
| F17T8 | 2 | 347 | 44 | 0.13 | 1.22 | 2.77 | 98 | 1.7 | 13 | -22/-30 |
| F17T8/WM | 3 | 347 | 52 | 0.15 | 1.10 | 2.12 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 46 | 0.14 | 1.00 | 2.17 | 98 | 1.7 | 12 | -22/-30 |
| FE15T8 | 2 | 347 | 36 | 0.11 | 1.11 | 3.08 | 91 | 1.7 | 33 | -22/-30 |
| F40T8 | 2 | 347 | 99 | 0.27 | 1.28 | 1.29 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 347 | 89 | 0.26 | 1.24 | 1.39 | 99 | 1.7 | 10 | -22/-30 |
| F25T12 | 2 | 347 | 68 | 0.20 | 1.40 | 2.06 | 99 | 1.7 | 10 | -22/-30 |

Safety and performance





 ICES-005 for EMI and RFI FCC – CLASS A Non-Consumer


 ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 High Temperature Rated: Suitable for high temperature applications

70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series 347V High-Efficiency T8 Instant Start Ballasts

74113 – GE432MAXP347-H

UltraMax® P-Series 347V High-Efficiency

4 or 3 – F32T8 347V “H” 1.18 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- Instant start ballast for long lamp starting cycles and low initial cost
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature
- Parallel lamp operation means system maintenance is easier to manage

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A(20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74113 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 4 | 347 | 137 | 0.39 | 1.18 | .86 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 347 | 114 | 0.33 | 1.25 | 1.10 | 99 | 1.7 | 10 | -22/-30 |
| | 4 | 347 | 134 | 0.39 | 1.15 | .86 | 99 | 1.7 | 10 | 60/16 |
| F32T8/W/M | 3 | 347 | 111 | 0.32 | 1.23 | 1.11 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 126 | 0.36 | 1.13 | .90 | 99 | 1.7 | 17 | 60/16 |
| F28T8 | 3 | 347 | 104 | 0.30 | 1.21 | 1.16 | 99 | 1.7 | 17 | 60/16 |
| F32T8/25W | 4 | 347 | 113 | 0.32 | 1.12 | .99 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 111 | 0.32 | 1.16 | 1.05 | 99 | 1.7 | 10 | -22/-30 |
| F25T8 | 3 | 347 | 92 | 0.27 | 1.26 | 1.37 | 99 | 1.7 | 10 | -22/-30 |
| F25T8/W/M | 4 | 347 | 96 | 0.28 | 1.16 | 1.21 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 78 | 0.23 | 1.10 | 1.41 | 99 | 1.7 | 10 | -22/-30 |
| F17T8 | 3 | 347 | 66 | 0.19 | 1.18 | 1.79 | 98 | 1.7 | 11 | -22/-30 |
| F17T8/W/M | 4 | 347 | 68 | 0.19 | 1.10 | 1.62 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 61 | 0.18 | 1.00 | 1.64 | 98 | 1.7 | 13 | -22/-30 |
| FE15T8 | 3 | 347 | 51 | 0.15 | 1.06 | 2.08 | 97 | 1.7 | 15 | -22/-30 |
| F40T8 | 3 | 347 | 147 | 0.41 | 1.33 | .90 | 99 | 1.7 | 10 | -22/-30 |
| F25T12 | 4 | 347 | 121 | 0.35 | 1.23 | 1.02 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 347 | 101 | 0.29 | 1.33 | 1.32 | 99 | 1.7 | 10 | -22/-30 |

Safety and performance


 UL Class P
  UL Type 1 Outdoor
  UL Type HL
 ICES-005 for EMI and RFI
 FCC – CLASS A Non-Consumer


 ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991
 High Temperature Rated: Suitable for high temperature applications

70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty
 Product is compliant with material restriction requirements of RoHS

| Dimensions | |
|---|-----------------|
| Wiring diagram – LFL 1D – see example on Page 10-61 | |
| Case dimensions – Ref Drawing - A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.05 in (27 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.5 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Red & Blue | 31 in (787 mm) |
| Yellow | 47 in (1194 mm) |

UltraMax® Professional Series 480V High-Efficiency T8 Instant Start Ballasts

62718 – GE232MAXP480-H

UltraMax® P-Series 480V High-Efficiency

2 or 1 – F32T8 480V “H” 1.18 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- 3-Stage 3G Transient Suppression –line to line transient capability up to 6KV
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 62718 | | | |

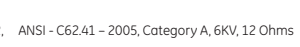
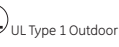
Dimensions

| | |
|--|------------------|
| Wiring diagram – LFL 18 – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 11.75 in (299mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Width (X or F) | 1.05 in (27 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 2.15lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 2 | 480 | 73 | 0.16 | 1.18 | 1.62 | 95 | 1.7 | 10 | -22/-30 |
| | 1 | 480 | 45 | 0.10 | 1.39 | 3.09 | 88 | 1.7 | 15 | -22/-30 |
| F32T8/WM | 2 | 480 | 68 | 0.15 | 1.16 | 1.71 | 92 | 1.7 | 10 | 10/-12 |
| | 1 | 480 | 42 | 0.10 | 1.37 | 3.26 | 88 | 1.7 | 15 | 10/-12 |
| F28T8 | 2 | 480 | 64 | 0.14 | 1.13 | 1.77 | 92 | 1.7 | 10 | 10/-12 |
| | 1 | 480 | 41 | 0.09 | 1.35 | 3.29 | 88 | 1.7 | 15 | 10/-12 |
| F32T8/25W | 2 | 480 | 59 | 0.13 | 1.11 | 1.88 | 92 | 1.7 | 10 | 10/-12 |
| | 1 | 480 | 38 | 0.09 | 1.34 | 3.53 | 88 | 1.7 | 15 | 10/-12 |
| F25T8 | 2 | 480 | 58 | 0.13 | 1.17 | 2.02 | 92 | 1.7 | 10 | -22/-30 |
| | 1 | 480 | 38 | 0.09 | 1.38 | 3.63 | 88 | 1.7 | 15 | -22/-30 |
| F17T8 | 2 | 480 | 42 | 0.09 | 1.18 | 2.81 | 88 | 1.7 | 15 | -22/-30 |
| | 1 | 480 | 28 | 0.07 | 1.39 | 4.96 | 80 | 1.7 | 20 | -22/-30 |
| F36T8 | 2 | 480 | 61 | 0.14 | 0.85 | 1.39 | 92 | 1.7 | 10 | 10/-12 |
| | 1 | 480 | 39 | 0.09 | 1.02 | 2.62 | 88 | 1.7 | 15 | 10/-12 |
| F40T8 | 1 | 480 | 58 | 0.13 | 1.32 | 2.28 | 92 | 1.7 | 10 | 60/16 |

Safety and performance



UL 55°C Ambient Temperature rating 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty Product is compliant with material restriction requirements of RoHS

UltraMax® Professional Series 480V High-Efficiency T8 Instant Start Ballasts

62719 – GE332MAXP480-H

UltraMax® P-Series 480V High-Efficiency

3 or 2- F32T8 480V "H" 1.18 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- 3-Stage 3G Transient Suppression –line to line transient capability up to 6KV
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A(20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|





Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 62719 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 3 | 480 | 108 | 0.23 | 1.18 | 1.09 | 95 | 1.7 | 10 | -22/-30 |
| | 2 | 480 | 82 | 0.18 | 1.31 | 1.60 | 95 | 1.7 | 10 | -22/-30 |
| F32T8/WM | 3 | 480 | 100 | 0.22 | 1.16 | 1.16 | 95 | 1.7 | 10 | 10/-12 |
| | 2 | 480 | 76 | 0.16 | 1.28 | 1.68 | 95 | 1.7 | 10 | 10/-12 |
| F28T8 | 3 | 480 | 94 | 0.20 | 1.13 | 1.20 | 95 | 1.7 | 10 | 10/-12 |
| | 2 | 480 | 72 | 0.16 | 1.26 | 1.75 | 95 | 1.7 | 10 | 10/-12 |
| F32T8/25W | 3 | 480 | 87 | 0.19 | 1.11 | 1.28 | 95 | 1.7 | 10 | 10/-12 |
| | 2 | 480 | 67 | 0.15 | 1.25 | 1.87 | 95 | 1.7 | 10 | 10/-12 |
| F25T8 | 3 | 480 | 84 | 0.18 | 1.17 | 1.39 | 95 | 1.7 | 10 | -22/-30 |
| | 2 | 480 | 65 | 0.14 | 1.29 | 1.98 | 95 | 1.7 | 10 | -22/-30 |
| F17T8 | 3 | 480 | 60 | 0.14 | 1.18 | 1.97 | 95 | 1.7 | 10 | -22/-30 |
| | 2 | 480 | 47 | 0.10 | 1.30 | 2.77 | 90 | 1.7 | 15 | -22/-30 |
| F36T8 | 3 | 480 | 90 | 0.19 | 0.85 | 0.94 | 95 | 1.7 | 10 | 10/-12 |
| | 2 | 480 | 68 | 0.15 | 0.95 | 1.40 | 95 | 1.7 | 10 | 10/-12 |
| F40T8 | 2 | 480 | 103 | 0.22 | 1.24 | 1.20 | 95 | 1.7 | 10 | 60/16 |

Safety and performance


 UL Class P
  UL Type 1 Outdoor
  UL Type HL
 FCC – CLASS A Non-Consumer ANSI - C82.11 - Cons 2002, ANSI - C62.41 – 2005, Category A, 6KV, 12 Ohms
 UL 55°C Ambient Temperature rating 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty Product is compliant with material restriction requirements of RoHS

Dimensions

Wiring diagram – LFL 1C – see example on Page 10-61

Case dimensions – Ref Drawing -A – see Page 10-62

| | |
|------------|------------------|
| Length (L) | 11.75 in (299mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|------------------|
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Width (X or F) | 1.05 in (27 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 2.15lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

UltraMax® Professional Series 480V High-Efficiency T8 Instant Start Ballasts

62720 – GE432MAXP480-H

UltraMax® P-Series 480V High-Efficiency

4 or 3– F32T8 480V “H” 1.18 BF UltraMax®P

- Energy-saving high-efficiency instant-start electronic ballast (>90%)
- 3-Stage 3G Transient Suppression –line to line transient capability up to 6KV
- Anti-striation control for better light quality
- UL 55°C Ambient Temperature rating
- Cold temperature -22°F Minimum Starting Temperature

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 62720 | | | |

Dimensions

Wiring diagram – LFL 1D – see example on Page 10-61

Case dimensions – Ref Drawing -A – see Page 10-62

| | |
|------------|------------------|
| Length (L) | 11.75 in (299mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|------------------|
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Width (X or F) | 1.05 in (27 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 2.15lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-----------------|-----------------|
| White and Black | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 31 in (787 mm) |
| Yellow | 47 in (1194 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 4 | 480 | 144 | 0.31 | 1.18 | 0.82 | 95 | 1.7 | 10 | -22/-30 |
| | 3 | 480 | 118 | 0.25 | 1.29 | 1.09 | 95 | 1.7 | 10 | -22/-30 |
| | 4 | 480 | 134 | 0.29 | 1.16 | 0.87 | 95 | 1.7 | 10 | 10/-12 |
| F32T8/WM | 3 | 480 | 110 | 0.24 | 1.26 | 1.15 | 95 | 1.7 | 10 | 10/-12 |
| | 4 | 480 | 125 | 0.27 | 1.13 | 0.90 | 95 | 1.7 | 10 | 10/-12 |
| F28T8 | 3 | 480 | 103 | 0.22 | 1.23 | 1.19 | 95 | 1.7 | 10 | 10/-12 |
| | 4 | 480 | 115 | 0.26 | 1.11 | 0.97 | 95 | 1.7 | 10 | 10/-12 |
| F32T8/25W | 3 | 480 | 96 | 0.21 | 1.22 | 1.27 | 95 | 1.7 | 10 | 10/-12 |
| | 4 | 480 | 110 | 0.24 | 1.17 | 1.06 | 95 | 1.7 | 10 | -22/-30 |
| F25T8 | 3 | 480 | 91 | 0.21 | 1.26 | 1.38 | 95 | 1.7 | 10 | -22/-30 |
| | 4 | 480 | 79 | 0.17 | 1.18 | 1.49 | 95 | 1.7 | 10 | -22/-30 |
| F17T8 | 3 | 480 | 66 | 0.14 | 1.27 | 1.92 | 95 | 1.7 | 10 | -22/-30 |
| | 4 | 480 | 119 | 0.26 | 0.85 | 0.71 | 95 | 1.7 | 10 | 10/-12 |
| F36T8 | 3 | 480 | 98 | 0.21 | 0.93 | 0.95 | 95 | 1.7 | 10 | 10/-12 |
| F40T8 | 3 | 480 | 148 | 0.32 | 1.21 | 0.82 | 95 | 1.7 | 10 | 60/16 |

Safety and performance



UL Class P



UL Type 1 Outdoor



UL Type HL

FCC – CLASS A Non-Consumer ANSI - C82.11 - Cons 2002, ANSI - C62.41 – 2005, Category A, 6KV, 12 Ohms

UL 55°C Ambient Temperature rating 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty Product is compliant with material restriction requirements of RoHS

UltraMax® General Series T8 Multi-Voltage 120-277V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

72269 – GE132MAX-G-N (Replaces GE-132-MV-N)

UltraMax® G-Series T8 Multivolt 120V-277V

1 – F32T8 120 to 277 "N" .87 BF Multivolt UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic - Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|






Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 72269 | 72270 | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 1 | 120 | 28 | 0.24 | .88 | 3.14 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 28 | 0.11 | .88 | 3.14 | 98 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 27 | 0.23 | .87 | 3.22 | 99 | 1.5 | 10 | -22/-30 |
| F32T8/WM | 1 | 277 | 27 | 0.10 | .87 | 3.22 | 98 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 25 | 0.22 | .89 | 3.56 | 99 | 1.5 | 10 | -22/-30 |
| F28T8 | 1 | 277 | 25 | 0.10 | .89 | 3.56 | 98 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 24 | 0.19 | .88 | 3.67 | 99 | 1.5 | 10 | -22/-30 |
| F32T8/25W | 1 | 277 | 23 | 0.09 | .88 | 3.83 | 94 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 23 | 0.19 | .94 | 4.09 | 99 | 1.5 | 10 | -22/-30 |
| F25T8 | 1 | 277 | 24 | 0.09 | .94 | 3.92 | 94 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 17 | 0.14 | .98 | 5.76 | 99 | 1.5 | 10 | -22/-30 |
| F17T8 | 1 | 277 | 17 | 0.07 | .98 | 5.76 | 90 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 14 | 0.12 | .92 | 6.57 | 99 | 1.5 | 10 | -22/-30 |
| FE15T8 | 1 | 277 | 14 | 0.06 | .92 | 6.57 | 88 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 25 | 0.21 | .94 | 3.76 | 99 | 1.5 | 10 | 0/-18 |
| F25T12 | 1 | 277 | 25 | 0.10 | .94 | 3.76 | 94 | 1.5 | 10 | 0/-18 |

Safety and performance





 FCC – CLASS A Non-Consumer

 Product is compliant with material restriction requirements of RoHS

Dimensions

Wiring diagram – LFL 1A – see example on Page 10-61

Case dimensions – Ref Drawing -A – see Page 10-62

| | |
|------------|------------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.6 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------|----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

UltraMax® General Series T8 Multi-Voltage 120–277V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

74803 – GE232MAX-G-H (Replaces GE232MV-H)

UltraMax® G-Series T8 Multivolt 120V-277V

2 or 1 – F32T8 120 to 277 “H” 1.18 BF Multivolt UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

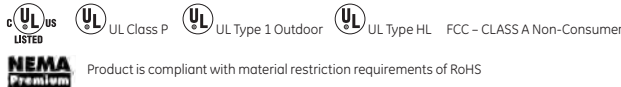
| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1B – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.06lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74803 | 74804 | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 2 | 120 | 77 | 0.65 | 1.18 | 1.53 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 76 | 0.28 | 1.18 | 1.55 | 98 | 1.7 | 10 | -22/-30 |
| | 1 | 120 | 48 | 0.44 | 1.34 | 2.79 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 48 | 0.2 | 1.34 | 2.79 | 97 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 70 | 0.63 | 1.13 | 1.61 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 69 | 0.28 | 1.13 | 1.64 | 98 | 1.7 | 10 | 60/16 |
| F32T8/WM | 1 | 120 | 45 | 0.42 | 1.30 | 2.89 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 45 | 0.19 | 1.30 | 2.89 | 96 | 1.7 | 10 | 60/16 |
| | 2 | 120 | 65 | 0.57 | 1.10 | 1.69 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 64 | 0.26 | 1.10 | 1.72 | 98 | 1.7 | 10 | 60/16 |
| | 1 | 120 | 42 | 0.39 | 1.28 | 3.05 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 42 | 0.18 | 1.28 | 3.05 | 96 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 120 | 60 | 0.51 | 1.10 | 1.83 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 60 | 0.22 | 1.10 | 1.83 | 98 | 1.7 | 15 | 60/16 |
| | 1 | 120 | 37 | 0.31 | 1.28 | 3.46 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 37 | 0.14 | 1.28 | 3.46 | 97 | 1.7 | 18 | 60/16 |
| | 2 | 120 | 57 | 0.51 | 1.16 | 2.04 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 57 | 0.23 | 1.16 | 2.04 | 97 | 1.7 | 10 | -22/-30 |
| F25T8 | 1 | 120 | 38 | 0.35 | 1.32 | 3.47 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 38 | 0.16 | 1.32 | 3.47 | 96 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 41 | 0.36 | 1.15 | 2.80 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 41 | 0.16 | 1.15 | 2.80 | 96 | 1.7 | 10 | -22/-30 |
| | 1 | 120 | 27 | 0.24 | 1.31 | 4.85 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 27 | 0.11 | 1.31 | 4.85 | 94 | 1.7 | 10 | -22/-30 |
| F17T8 | 1 | 120 | 57 | 0.53 | | | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 57 | 0.23 | | | 97 | 1.7 | 10 | 0/-18 |

Safety and performance



UltraMax® General Series T8 Multi-Voltage 120-277V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

72273 - GE232MAX-G-L (Replaces GE-232-MV-L)

UltraMax® G-Series T8 Multivolt 120V-277V

2 or 1 - F32T8 120 to 277 "L".77 BF Multivolt UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic - High-Efficiency Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 72273 | | | |

| Dimensions | |
|--|------------------|
| Wiring diagram - LFL 1B - see example on Page 10-61 | |
| Case dimensions - Ref Drawing - A - see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.7lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 37 in (940 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 2 | 120 | 48 | 0.42 | .78 | 1.63 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 48 | 0.19 | .78 | 1.63 | 98 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 30 | 0.24 | .96 | 3.20 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 30 | 0.11 | .96 | 3.20 | 95 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 46 | 0.39 | .77 | 1.67 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 46 | 0.17 | .77 | 1.67 | 98 | 1.5 | 10 | -22/-30 |
| F32T8/WM | 1 | 120 | 28 | 0.22 | .77 | 2.75 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 28 | 0.11 | .77 | 2.75 | 94 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 43 | 0.36 | .77 | 1.79 | 99 | 1.5 | 10 | -22/-30 |
| F28T8 | 2 | 277 | 42 | 0.16 | .77 | 1.83 | 97 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 26 | 0.21 | .77 | 2.96 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 26 | 0.10 | .77 | 2.96 | 94 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 39 | 0.33 | .78 | 2.00 | 99 | 1.5 | 10 | -22/-30 |
| F32T8/25W | 2 | 277 | 39 | 0.15 | .78 | 2.00 | 96 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 22 | 0.18 | .78 | 3.55 | 98 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 22 | 0.09 | .78 | 3.55 | 93 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 40 | 0.34 | .78 | 1.95 | 99 | 1.5 | 10 | -22/-30 |
| | 2 | 277 | 40 | 0.15 | .78 | 1.95 | 96 | 1.5 | 10 | -22/-30 |
| F25T8 | 1 | 120 | 23 | 0.21 | .96 | 4.17 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 24 | 0.10 | .96 | 4.00 | 93 | 1.5 | 15 | -22/-30 |
| | 2 | 120 | 28 | 0.24 | .79 | 2.82 | 99 | 1.5 | 10 | -22/-30 |
| F17T8 | 2 | 277 | 29 | 0.11 | .79 | 2.72 | 94 | 1.5 | 10 | -22/-30 |
| | 1 | 120 | 17 | 0.15 | .98 | 5.76 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 18 | 0.08 | .98 | 5.44 | 90 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 23 | 0.20 | .78 | 3.39 | 99 | 1.5 | 10 | -22/-30 |
| FE15T8 | 2 | 277 | 23 | 0.10 | .78 | 3.39 | 91 | 1.5 | 15 | -22/-30 |
| | 1 | 120 | 14 | 0.13 | .78 | 5.57 | 99 | 1.5 | 10 | -22/-30 |
| | 1 | 277 | 15 | 0.07 | .78 | 5.20 | 87 | 1.5 | 10 | -22/-30 |
| | 2 | 120 | 42 | 0.35 | .80 | 1.90 | 99 | 1.5 | 10 | 0/-18 |
| F25T12 | 2 | 277 | 41 | 0.15 | .80 | 1.95 | 97 | 1.5 | 10 | 0/-18 |
| | 1 | 120 | 24 | 0.21 | .80 | 3.33 | 99 | 1.5 | 10 | 0/-18 |
| | 1 | 277 | 24 | 0.10 | .80 | 3.33 | 95 | 1.5 | 10 | 0/-18 |

Safety and performance



UltraMax® General Series T8 Multi-Voltage 120-277V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

72275 - GE232MAX-G-N (Replaces GE-232-MV-N)

UltraMax® G-Series T8 Multivolt 120V-277V

2 or 1 - F32T8 120 to 277 "N" .87 BF Multivolt UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic - Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature [MAX] | 40°C (104°F) |
| Case Temperature [MAX] | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 72275 | 72276 | 93883 | |

Dimensions

Wiring diagram - LFL 18 - see example on Page 10-61

Case dimensions - Ref Drawing - A - see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.06 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 2 | 120 | 57 | 0.48 | .88 | 1.54 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 55 | 0.2 | .88 | 1.60 | 98 | 1.7 | 10 | -22/-30 |
| | 1 | 120 | 35 | 0.3 | 1.08 | 3.09 | 99 | 1.7 | 10 | -22/-30 |
| F32T8/NM | 1 | 277 | 35 | 0.13 | 1.08 | 3.09 | 97 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 53 | 0.44 | .86 | 1.62 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 51 | 0.19 | .87 | 1.71 | 97 | 1.7 | 10 | 60/16 |
| F32T8/25W | 1 | 120 | 33 | 0.28 | 1.05 | 3.18 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 33 | 0.12 | 1.05 | 3.18 | 96 | 1.7 | 10 | 60/16 |
| | 2 | 120 | 47 | 0.39 | .83 | 1.77 | 99 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 277 | 47 | 0.17 | .83 | 1.77 | 97 | 1.7 | 10 | 60/16 |
| | 1 | 120 | 31 | 0.26 | 1.02 | 3.29 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 31 | 0.11 | .02 | .06 | 95 | 1.7 | 10 | 60/16 |
| F32T8/25W | 2 | 120 | 43 | 0.36 | .83 | 1.93 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 43 | 0.16 | .83 | 1.93 | 97 | 1.7 | 10 | 60/16 |
| | 1 | 120 | 28 | 0.24 | 1.02 | 3.64 | 99 | 1.7 | 10 | 60/16 |
| F25T8 | 1 | 277 | 28 | 0.10 | 1.02 | 3.64 | 98 | 1.7 | 10 | 60/16 |
| | 2 | 120 | 44 | 0.37 | .90 | 2.05 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 44 | 0.16 | .91 | 2.07 | 97 | 1.7 | 10 | -22/-30 |
| F17T8 | 1 | 120 | 28 | 0.23 | 1.08 | 3.86 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 28 | 0.11 | 1.08 | 3.86 | 95 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 31 | 0.26 | .88 | 2.84 | 99 | 1.7 | 10 | -22/-30 |
| F40T8 | 2 | 277 | 31 | 0.12 | .88 | 2.84 | 95 | 1.7 | 10 | -22/-30 |
| | 1 | 120 | 20 | 0.17 | 1.05 | 5.25 | 99 | 1.7 | 10 | -22/-30 |
| | 1 | 277 | 21 | 0.08 | 1.05 | 5.00 | 92 | 1.7 | 14 | -22/-30 |
| F40T8 | 1 | 120 | 44 | 0.37 | 1.08 | 2.45 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 43 | 0.16 | 1.08 | 2.51 | 96 | 1.7 | 10 | 0/-18 |

Safety and performance



NEMA Product is compliant with material restriction requirements of RoHS

UltraMax® General Series T8 Multi-Voltage 120-277V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

74461 – GE332MAX-G-H (Replaces GE332MV-H)

UltraMax® G-Series T8 Multivolt 120V-277V

3 or 2 – F32T8 120 to 277 "H" 1.15 BF Multivolt UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic –Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74461 | 74462 | | |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1C – see example on Page 10-61 | |
| Case dimensions – Ref Drawing –A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 3 | 120 | 113 | 0.95 | 1.15 | 1.02 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 110 | 0.41 | 1.15 | 1.05 | 98 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 86 | 0.79 | 1.27 | 1.48 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 85 | 0.34 | 1.27 | 1.49 | 97 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 103 | 0.91 | 1.11 | 1.08 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 101 | 0.39 | 1.11 | 1.10 | 98 | 1.7 | 10 | 60/16 |
| F32T8/WM | 2 | 120 | 79 | 0.73 | 1.22 | 1.54 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 78 | 0.32 | 1.22 | 1.56 | 97 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 94 | 0.84 | 1.10 | 1.17 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 92 | 0.36 | 1.10 | 1.20 | 98 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 120 | 72 | 0.67 | 1.20 | 1.67 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 72 | 0.30 | 1.20 | 1.67 | 97 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 89 | 0.75 | 1.07 | 1.20 | 99 | 1.7 | 10 | 60/16 |
| F32T8/25W | 3 | 277 | 88 | 0.32 | 1.07 | 1.22 | 98 | 1.7 | 15 | 60/16 |
| | 2 | 120 | 68 | 0.57 | 1.20 | 1.76 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 69 | 0.26 | 1.20 | 1.74 | 97 | 1.7 | 18 | 60/16 |
| | 3 | 120 | 84 | 0.75 | 1.14 | 1.36 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 83 | 0.33 | 1.14 | 1.37 | 97 | 1.7 | 10 | -22/-30 |
| F25T8 | 2 | 120 | 65 | 0.61 | 1.14 | 1.75 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 65 | 0.26 | 1.14 | 1.75 | 97 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 59 | 0.52 | 1.13 | 1.92 | 99 | 1.7 | 10 | -22/-30 |
| F17T8 | 3 | 277 | 59 | 0.24 | 1.13 | 1.92 | 96 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 46 | 0.43 | 1.24 | 2.70 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 46 | 0.20 | 1.24 | 2.70 | 95 | 1.7 | 10 | -22/-30 |
| F40T8 | 2 | 120 | 102 | 0.95 | | | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 100 | 0.41 | | | 98 | 1.7 | 10 | 0/-18 |

Safety and performance   UL Class P  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer



Product is compliant with material restriction requirements of RoHS

UltraMax® General Series T8 Multi-Voltage 120–277V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

74459 – GE332MAX-G-L (Replaces GE332MV-L)

UltraMax® G-Series T8 Multivolt 120V-277V

3 or 2 – F32T8 120 to 277 “L”.77 BF Multivolt UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature [MAX] | 40°C (104°F) |
| Case Temperature [MAX] | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

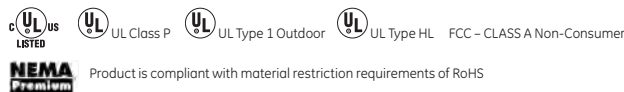
| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1C – see example on Page 10-61 | |
| Case dimensions – Ref Drawing – A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74459 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 3 | 120 | 74 | 0.70 | .78 | 1.05 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 73 | 0.31 | .78 | 1.07 | 98 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 60 | 0.55 | .87 | 1.45 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 59 | 0.24 | .87 | 1.47 | 97 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 69 | 0.62 | .75 | 1.09 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 68 | 0.27 | .75 | 1.10 | 98 | 1.7 | 10 | 60/16 |
| F32T8/WM | 2 | 120 | 55 | 0.50 | .83 | 1.51 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 55 | 0.22 | .83 | 1.51 | 97 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 63 | 0.57 | .75 | 1.19 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 63 | 0.25 | .75 | 1.19 | 98 | 1.7 | 10 | 60/16 |
| | 2 | 120 | 50 | 0.46 | .83 | 1.66 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 50 | 0.20 | .83 | 1.66 | 97 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 120 | 59 | 0.50 | .74 | 1.25 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 59 | 0.22 | .74 | 1.25 | 98 | 1.7 | 15 | 60/16 |
| | 2 | 120 | 46 | 0.39 | .83 | 1.80 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 47 | 0.17 | .83 | 1.77 | 97 | 1.7 | 18 | 60/16 |
| | 3 | 120 | 58 | 0.52 | .77 | 1.33 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 58 | 0.23 | .77 | 1.33 | 97 | 1.7 | 10 | -22/-30 |
| F32T8/25W | 2 | 120 | 45 | 0.42 | .86 | 1.91 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 45 | 0.19 | .86 | 1.91 | 96 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 41 | 0.36 | .77 | 1.88 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 41 | 0.16 | .77 | 1.88 | 96 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 32 | 0.30 | .85 | 2.66 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 33 | 0.14 | .85 | 2.58 | 95 | 1.7 | 10 | -22/-30 |
| F17T8 | 2 | 120 | 69 | 0.63 | | | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 68 | 0.27 | | | 98 | 1.7 | 10 | 0/-18 |

Safety and performance



UltraMax® General Series T8 Multi-Voltage 120-277V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

74456 – GE332MAX-G-N (Replaces GE332MV-N)

UltraMax® G-Series T8 Multivolt 120V-277V

3 or 2 – F32T8 120 to 277 “N” .87 BF Multivolt UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 74456 | 74457 | 93869 | |

Dimensions

Wiring diagram – LFL1C – see example on Page 10-61
Case dimensions – Ref Drawing – A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |


Lead lengths

| | |
|-------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 3 | 120 | 81 | 0.73 | .87 | 1.07 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 80 | 0.32 | .87 | 1.09 | 98 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 62 | 0.56 | .96 | 1.55 | 99 | 1.7 | 10 | -22/-30 |
| | 2 | 277 | 62 | 0.26 | .96 | 1.55 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 75 | 0.68 | .83 | 1.11 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 74 | 0.30 | .83 | 1.12 | 98 | 1.7 | 10 | 60/16 |
| F32T8/WM | 2 | 120 | 58 | 0.52 | .92 | 1.59 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 57 | 0.23 | .92 | 1.61 | 98 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 67 | 0.60 | .82 | 1.22 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 66 | 0.26 | .82 | 1.24 | 98 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 120 | 52 | 0.46 | .87 | 1.67 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 51 | 0.29 | .87 | 1.71 | 97 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 66 | 0.56 | .80 | 1.21 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 65 | 0.24 | .80 | 1.23 | 98 | 1.7 | 13 | 60/16 |
| F32T8/25W | 2 | 120 | 51 | 0.43 | .87 | 1.71 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 50 | 0.19 | .87 | 1.74 | 97 | 1.7 | 18 | 60/16 |
| | 3 | 120 | 63 | 0.57 | .86 | 1.37 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 62 | 0.25 | .86 | 1.39 | 98 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 48 | 0.43 | .94 | 1.96 | 99 | 1.7 | 10 | -22/-30 |
| F25T8 | 2 | 277 | 48 | 0.19 | .94 | 1.96 | 97 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 45 | 0.40 | .86 | 1.91 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 44 | 0.18 | .86 | 1.95 | 97 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 34 | 0.30 | .92 | 2.71 | 99 | 1.7 | 10 | -22/-30 |
| F17T8 | 2 | 277 | 35 | 0.15 | .92 | 2.63 | 96 | 1.7 | 10 | -22/-30 |
| | 2 | 120 | 75 | 0.67 | | | 99 | 1.7 | 10 | 0/-18 |
| F40T8 | 2 | 277 | 73 | 0.29 | | | 98 | 1.7 | 10 | 0/-18 |

Safety and performance   UL Class P  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer

 Product is compliant with material restriction requirements of RoHS

UltraMax® General-Series T8 Multi-Voltage 120–277V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

67911 – GE432MAX-G-H (Replaces GE432MAXA-H)

UltraMax® G-Series T8 Multivolt 120V-277V

4 or 3 – F32T8 120 to 277 “H” 1.18 BF Multivolt UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1D – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.05 in (27 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Red & Blue | 31 in (787 mm) |
| Yellow | 47 in (1194 mm) |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |


| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 67911 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 4 | 120 | 146 | 1.23 | 1.18 | .81 | 99 | 1.7 | 10 | -22/-30 |
| | 4 | 277 | 143 | 0.53 | 1.18 | .83 | 98 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 115 | 0.96 | 1.24 | 1.08 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 113 | 0.42 | 1.24 | 1.10 | 98 | 1.7 | 10 | -22/-30 |
| | 4 | 120 | 130 | 1.09 | 1.13 | .87 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 128 | 0.47 | 1.13 | .88 | 98 | 1.7 | 10 | 60/16 |
| F32T8/WM | 3 | 120 | 107 | 0.90 | 1.22 | 1.14 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 106 | 0.39 | 1.22 | 1.15 | 97 | 1.7 | 10 | 60/16 |
| | 4 | 120 | 123 | 1.03 | 1.10 | .89 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 121 | 0.44 | 1.11 | .92 | 98 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 101 | 0.85 | 1.20 | 1.19 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 100 | 0.37 | 1.20 | 1.20 | 97 | 1.7 | 10 | 60/16 |
| F28T8 | 4 | 120 | 123 | 1.03 | 1.11 | .90 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 121 | 0.44 | 1.11 | .92 | 98 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 101 | 0.85 | 1.22 | 1.21 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 100 | 0.37 | 1.22 | 1.22 | 97 | 1.7 | 10 | 60/16 |
| | 4 | 120 | 107 | 0.89 | 1.17 | 1.09 | 99 | 1.7 | 10 | 0/-18 |
| | 4 | 277 | 105 | 0.39 | 1.17 | 1.11 | 98 | 1.7 | 10 | 0/-18 |
| F32T8/25W | 3 | 120 | 88 | 0.76 | 1.25 | 1.42 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 88 | 0.37 | 1.25 | 1.42 | 97 | 1.7 | 10 | 0/-18 |
| | 4 | 120 | 76 | 0.64 | 1.13 | 1.49 | 99 | 1.7 | 10 | 0/-18 |
| | 4 | 277 | 76 | 0.28 | 1.13 | 1.49 | 97 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 63 | 0.53 | 1.25 | 1.98 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 64 | 0.24 | 1.25 | 1.95 | 96 | 1.7 | 10 | 0/-18 |
| F17T8 | 3 | 120 | 144 | 1.20 | | | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 141 | 0.52 | | | 98 | 1.7 | 10 | 0/-18 |

Safety and performance


 UL Class P
  UL Type 1 Outdoor
  UL Type HL
 FCC – CLASS A Non-Consumer


 Product is compliant with material restriction requirements of RoHS

UltraMax® General Series T8 Multi-Voltage 120-277V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

74466 – GE432MAX-G-L (Replaces GE432MV-L)

UltraMax® G-Series T8 Multivolt 120V-277V

4 or 3 – F32T8 120 to 277 “L”.77 BF Multivolt UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic - Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 74466 | | | |

Dimensions

Wiring diagram – LFL 1D – see example on Page 10-61
Case dimensions – Ref Drawing -A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|------------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Red & Blue | 31 in (787 mm) |
| Yellow | 47 in (1194 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 4 | 120 | 100 | 0.95 | .80 | .80 | 99 | 1.7 | 10 | -22/-30 |
| | 4 | 277 | 98 | 0.41 | .80 | .82 | 98 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 87 | 0.80 | .87 | 1.00 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 86 | 0.35 | .87 | 1.01 | 97 | 1.7 | 10 | -22/-30 |
| | 4 | 120 | 95 | 0.84 | .76 | .80 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 93 | 0.36 | .76 | .82 | 98 | 1.7 | 10 | 60/16 |
| F32T8/AWM | 3 | 120 | 79 | 0.73 | .83 | 1.05 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 78 | 0.32 | .83 | 1.06 | 97 | 1.7 | 10 | 60/16 |
| | 4 | 120 | 86 | 0.77 | .75 | .87 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 85 | 0.33 | .70 | .82 | 97 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 120 | 73 | 0.67 | .79 | 1.08 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 72 | 0.29 | .79 | 1.10 | 97 | 1.7 | 10 | 60/16 |
| | 4 | 120 | 77 | 0.65 | .70 | .91 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 77 | 0.28 | .73 | .95 | 98 | 1.7 | 15 | 60/16 |
| F32T8/25W | 3 | 120 | 65 | 0.55 | .79 | 1.22 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 65 | 0.24 | .79 | 1.22 | 97 | 1.7 | 18 | 60/16 |
| | 4 | 120 | 78 | 0.69 | .80 | 1.03 | 99 | 1.7 | 10 | -22/-30 |
| | 4 | 277 | 77 | 0.31 | .80 | 1.04 | 97 | 1.7 | 10 | -22/-30 |
| F25T8 | 3 | 120 | 66 | 0.61 | .86 | 1.30 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 65 | 0.27 | .86 | 1.32 | 97 | 1.7 | 10 | -22/-30 |
| | 4 | 120 | 55 | 0.49 | .79 | 1.44 | 99 | 1.7 | 10 | -22/-30 |
| | 4 | 277 | 55 | 0.23 | .79 | 1.44 | 96 | 1.7 | 10 | -22/-30 |
| F17T8 | 3 | 120 | 46 | 0.43 | .85 | 1.85 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 46 | 0.19 | .85 | 1.85 | 95 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 102 | 0.94 | | | 99 | 1.7 | 10 | 0/-18 |
| F40T8 | 3 | 277 | 100 | 0.41 | | | 97 | 1.7 | 10 | 0/-18 |

Safety and performance UL Class P UL Type 1 Outdoor UL Type HL FCC – CLASS A Non-Consumer

Product is compliant with material restriction requirements of RoHS

Ballasts
T8 Instant Start
T8 Programmed Start
T8/75 Dimming
T5 Electronic Programmed Start
T12 Electronic & High Output
Magnetic
Sign
Compact Fluorescent
HID Electronic & Electromagnetic

UltraMax® General Series T8 Multi-Voltage 120–277V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

74463 – GE432MAX-G-N (Replaces GE432MV-N)

UltraMax® G-Series T8 Multivolt 120V-277V

4 or 3 – F32T8 120 to 277 “N” .87 BF Multivolt UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality
- Cold temperature -22°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic - Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Auto-restart, Inherently Thermally Protected, UL Class P |



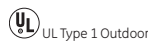

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1D – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Red & Blue | 31 in (787 mm) |
| Yellow | 47 in (1194 mm) |


| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74463 | 74464 | 93868 | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 4 | 120 | 113 | 0.99 | .88 | .78 | 99 | 1.7 | 10 | -22/-30 |
| | 4 | 277 | 110 | 0.43 | .88 | .80 | 98 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 93 | 0.83 | .93 | 1.00 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 92 | 0.36 | .93 | 1.01 | 98 | 1.7 | 10 | -22/-30 |
| | 4 | 120 | 103 | 0.90 | .83 | .81 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 103 | 0.40 | .83 | .81 | 98 | 1.7 | 10 | 60/16 |
| F32T8/WM | 3 | 120 | 87 | 0.77 | .91 | 1.05 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 86 | 0.33 | .91 | 1.06 | 98 | 1.7 | 10 | 60/16 |
| | 4 | 120 | 93 | 0.83 | .82 | .88 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 92 | 0.36 | .82 | .89 | 98 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 77 | 0.68 | .85 | 1.10 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 77 | 0.30 | .85 | 1.10 | 98 | 1.7 | 10 | 60/16 |
| F28T8 | 4 | 120 | 88 | 0.74 | .80 | .91 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 87 | 0.32 | .80 | .92 | 98 | 1.7 | 15 | 60/16 |
| | 3 | 120 | 73 | 0.61 | .85 | 1.16 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 73 | 0.27 | .85 | 1.16 | 97 | 1.7 | 16 | 60/16 |
| | 4 | 120 | 88 | 0.77 | .87 | .99 | 99 | 1.7 | 10 | -22/-30 |
| | 4 | 277 | 86 | 0.34 | .87 | 1.01 | 98 | 1.7 | 10 | -22/-30 |
| F32T8/25W | 3 | 120 | 73 | 0.64 | .93 | 1.27 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 72 | 0.28 | .93 | 1.29 | 98 | 1.7 | 10 | -22/-30 |
| | 4 | 120 | 60 | 0.53 | .87 | 1.45 | 99 | 1.7 | 10 | -22/-30 |
| | 4 | 277 | 60 | 0.23 | .87 | 1.45 | 97 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 51 | 0.45 | .91 | 1.78 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 51 | 0.20 | .91 | 1.78 | 97 | 1.7 | 10 | -22/-30 |
| F25T8 | 3 | 120 | 72 | 0.28 | .93 | 1.29 | 98 | 1.7 | 10 | -22/-30 |
| | 4 | 120 | 60 | 0.53 | .87 | 1.45 | 99 | 1.7 | 10 | -22/-30 |
| | 4 | 277 | 60 | 0.23 | .87 | 1.45 | 97 | 1.7 | 10 | -22/-30 |
| F17T8 | 3 | 120 | 51 | 0.45 | .91 | 1.78 | 99 | 1.7 | 10 | -22/-30 |
| | 3 | 277 | 51 | 0.20 | .91 | 1.78 | 97 | 1.7 | 10 | -22/-30 |
| | 3 | 120 | 112 | 0.99 | | | 99 | 1.7 | 10 | 0/-18 |
| F40T8 | 3 | 277 | 110 | 0.43 | | | 98 | 1.7 | 10 | 0/-18 |

Safety and performance





 FCC – CLASS A Non-Consumer


 Product is compliant with material restriction requirements of RoHS

UltraMax® General Series T8 Multi-Voltage 120-277V

T8 Instant Start Ballasts For 46-59W 4ft-8ft Slimline Lamps

72271 – GE159MAX-G-N (Replaces GE-159-MV-N)

UltraMax® G-Series T8 Multivolt 120V-277V

1 – F96T8 120 to 277 “N” 0.87 BF UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Cold temperature 0°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic -Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 72271 | 72272 | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F96T8 | 1 | 120 | 60 | 0.55 | .89 | 1.48 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 59 | 0.22 | .89 | 1.51 | 96 | 1.7 | 18 | 0/-18 |
| F96T8/WM | 1 | 120 | 56 | 0.51 | .85 | 1.52 | 99 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 54 | 0.22 | .85 | 1.57 | 96 | 1.7 | 18 | 50/10 |
| F96T8/WMP | 1 | 120 | 52 | 0.43 | .80 | 1.54 | 99 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 51 | 0.19 | .80 | 1.57 | 96 | 1.7 | 18 | 50/10 |

Safety and performance


 UL Class P
  UL Type 1 Outdoor
  UL Type HL
 FCC - CLASS A Non-Consumer
 Product is compliant with material restriction requirements of RoHS

Dimensions

Wiring diagram – LFL 1A – see example on Page 10-61

Case dimensions – Ref Drawing -A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.06lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------|-----------------|
| Black | 22 in (559 mm) |
| White | 22 in (559 mm) |
| Blue | 46 in (1168 mm) |
| Red | 78 in (1981 mm) |

UltraMax® General Series T8 Multi-Voltage 120–277V

T8 Instant Start Ballasts For 46-59W 4ft-8ft Slimline Lamps

74469 – GE259MAX-G-N (Replaces GE259MV-N)

UltraMax® G-Series T8 Multivolt 120V-277V

2 or 1 – F96T8 120 to 277 “N” 0.87 BF UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Cold temperature 0°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 74469 | 74470 | 93879 | |

Dimensions

Wiring diagram – LFL 1B – see example on Page 10-61

Case dimensions – Ref Drawing -A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------|-----------------|
| Black | 22 in (559 mm) |
| White | 22 in (559 mm) |
| Blue | 46 in (1168 mm) |
| Red | 78 in (1981 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp. (°F/°C) |
|----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|-----------------------------|
| F96T8 | 2 | 120 | 113 | 1.01 | .88 | .78 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 110 | 0.4 | .88 | .80 | 98 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 72 | 0.66 | .88 | 1.22 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 72 | 0.29 | .88 | 1.22 | 97 | 1.7 | 10 | 0/-18 |
| F96T8 | 2 | 120 | 104 | 0.93 | .86 | .83 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 101 | 0.42 | .86 | .85 | 98 | 1.7 | 10 | 60/16 |
| | 1 | 120 | 67 | 0.63 | 1.02 | 1.52 | 99 | 1.7 | 10 | 60/16 |
| F96T8/WM | 1 | 277 | 66 | 0.28 | 1.02 | 1.55 | 97 | 1.7 | 10 | 60/16 |

Safety and performance



UL Class P



UL Type 1 Outdoor



UL Type HL

FCC – CLASS A Non-Consumer

Product is compliant with material restriction requirements of RoHS

UltraMax® General Series 347V Instant Start High Performance T8 Instant Start Ballasts

74101 – GE132MAX-G-347 (Replaces GE132-N-347)

UltraMax® G-Series 347V Instant Start High-Efficiency

1 – F32T8 347V “N” 0.87 BF UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Light-weight, Slim Profile Mini Can Housing
- Parallel lamp operation means system maintenance is easier to manage
- Cold temperature 0°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

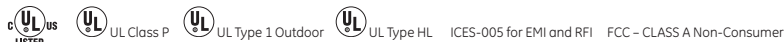
Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 74101 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 1 | 347 | 30 | 0.09 | .87 | 2.91 | 97 | 1.7 | 10 | 0/-18 |
| F32T8/WM | 1 | 347 | 28 | 0.08 | .86 | 3.10 | 96 | 1.7 | 10 | 0/-18 |
| F28T8 | 1 | 347 | 26 | 0.08 | .84 | 3.26 | 96 | 1.7 | 10 | 0/-18 |
| F32T8/25W | 1 | 347 | 24 | 0.07 | .84 | 3.50 | 96 | 1.7 | 10 | 0/-18 |
| F25T8 | 1 | 347 | 23 | 0.07 | .88 | 3.83 | 95 | 1.7 | 10 | 0/-18 |
| F25T8/WM | 1 | 347 | 20 | 0.07 | .88 | 4.40 | 95 | 1.7 | 10 | 0/-18 |
| F17T8 | 1 | 347 | 17 | 0.06 | .81 | 4.76 | 87 | 1.7 | 17 | 0/-18 |
| FE15T8 | 1 | 347 | 14 | 0.05 | .75 | 5.36 | 81 | 1.7 | 20 | 0/-18 |
| F25T12 | 1 | 347 | 24 | 0.07 | .88 | 3.67 | 95 | 1.7 | 10 | 0/-18 |

Safety and performance



ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 Product is compliant with material restriction requirements of RoHS

Dimensions

Wiring diagram – LFL 1A – see example on Page 10-61

Case dimensions – Ref Drawing -A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.04 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

UltraMax® General Series 347V Instant Start High Performance T8 Instant Start Ballasts

74103 – GE232MAX-G-347 (Replaces GE232-N-347)

UltraMax® G-Series 347V Instant Start
High-Efficiency

2 or 1– F32T8 347V “N” 0.87 BF UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Light-weight, Slim Profile Mini Can Housing
- Parallel lamp operation means system maintenance is easier to manage
- Cold temperature 0°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20–24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74103 | | | |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1B – see example on Page 10-61 | |
| Case dimensions – Ref Drawing -A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.04 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 2 | 347 | 55 | 0.16 | 0.87 | 1.58 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 347 | 34 | 0.11 | 1.03 | 3.03 | 97 | 1.7 | 10 | 0/-18 |
| F32T8/WM | 2 | 347 | 52 | 0.15 | 0.85 | 1.63 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 32 | 0.09 | 1.01 | 3.16 | 97 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 347 | 48 | 0.14 | 0.84 | 1.75 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 30 | 0.09 | 1.00 | 3.33 | 96 | 1.7 | 10 | 60/16 |
| F32T8/25W | 2 | 347 | 44 | 0.13 | 0.84 | 1.91 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 41 | 0.12 | 0.88 | 2.15 | 98 | 1.7 | 10 | 0/-18 |
| F25T8 | 1 | 347 | 26 | 0.08 | 1.04 | 4.00 | 95 | 1.7 | 11 | 0/-18 |
| | 2 | 347 | 35 | 0.11 | 0.88 | 2.51 | 98 | 1.7 | 10 | 60/16 |
| F25T8/WM | 2 | 347 | 29 | 0.09 | 0.83 | 2.86 | 96 | 1.7 | 10 | 0/-18 |
| | 1 | 347 | 19 | 0.07 | 0.99 | 5.21 | 84 | 1.7 | 50 | 0/-18 |
| F17T8 | 2 | 347 | 24 | 0.08 | 0.83 | 3.46 | 96 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 24 | 0.08 | 0.76 | 3.17 | 90 | 1.7 | 30 | 0/-18 |
| FE15T8 | 1 | 347 | 16 | 0.06 | 0.89 | 5.56 | 78 | 1.7 | 66 | 0/-18 |
| | 2 | 347 | 44 | 0.13 | 0.88 | 2.00 | 98 | 1.7 | 10 | 0/-18 |
| F25T12 | 1 | 347 | 28 | 0.08 | 1.07 | 3.82 | 96 | 1.7 | 10 | 0/-18 |

Safety and performance



ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 Product is compliant with material restriction requirements of RoHS

UltraMax® General Series 347V Instant Start High Performance T8 Instant Start Ballasts

74105 – GE332MAX-G-347 (Replaces GE332-N-347)

UltraMax® G-Series 347V Instant Start High-Efficiency

3 or 2 – F32T8 347V “N” 0.87 BF UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Light-weight, Slim Profile Mini Can Housing
- Parallel lamp operation means system maintenance is easier to manage
- Cold temperature 0°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 74105 | | | |

Dimensions

Wiring diagram – LFL 1C – see example on Page 10-61
Case dimensions – Ref Drawing –A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.15lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------|-----------------|
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 3 | 347 | 82 | 0.23 | 0.87 | 1.06 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 347 | 60 | 0.17 | 0.97 | 1.62 | 99 | 1.7 | 10 | 0/-18 |
| F32T8/WM | 3 | 347 | 78 | 0.22 | 0.85 | 1.09 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 57 | 0.17 | 0.98 | 1.72 | 99 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 347 | 73 | 0.20 | 0.83 | 1.14 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 53 | 0.15 | 0.94 | 1.77 | 99 | 1.7 | 10 | 60/16 |
| F32T8/25W | 3 | 347 | 66 | 0.19 | 0.83 | 1.26 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 62 | 0.18 | 0.88 | 1.42 | 99 | 1.7 | 10 | 0/-18 |
| F25T8 | 2 | 347 | 48 | 0.14 | 0.98 | 2.04 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 347 | 53 | 0.17 | 0.88 | 1.66 | 99 | 1.7 | 10 | 60/16 |
| F25T8/WM | 3 | 347 | 44 | 0.13 | 0.83 | 1.89 | 98 | 1.7 | 10 | 0/-18 |
| | 2 | 347 | 34 | 0.11 | 0.93 | 2.74 | 91 | 1.7 | 34 | 0/-18 |
| F17T8 | 3 | 347 | 37 | 0.11 | 0.83 | 2.24 | 98 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 32 | 0.10 | 0.76 | 2.38 | 96 | 1.7 | 14 | 0/-18 |
| FE15T8 | 2 | 347 | 25 | 0.08 | 0.85 | 3.40 | 91 | 1.7 | 41 | 0/-18 |
| | 3 | 347 | 65 | 0.19 | 0.83 | 1.28 | 99 | 1.7 | 10 | 0/-18 |
| F25T12 | 2 | 347 | 51 | 0.15 | 1.00 | 1.96 | 99 | 1.7 | 10 | 0/-18 |

Safety and performance



ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 Product is compliant with material restriction requirements of RoHS

UltraMax® General Series 347V Instant Start High Performance T8 Instant Start Ballasts

74107 – GE432MAX-G-347 (Replaces GE432-N-347)

UltraMax® G-Series 347V Instant Start High-Efficiency

4 or 3- F32T8 347V "N" 0.87 BF UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Light-weight, Slim Profile Mini Can Housing
- Parallel lamp operation means system maintenance is easier to manage
- Cold temperature 0°F Minimum Starting Temperature

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74107 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 4 | 347 | 109 | 0.30 | 0.88 | .81 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 347 | 87 | 0.25 | 0.95 | 1.09 | 99 | 1.7 | 10 | 0/-18 |
| | 4 | 347 | 103 | 0.29 | 0.86 | .83 | 99 | 1.7 | 10 | 60/16 |
| F32T8/WM | 3 | 347 | 83 | 0.24 | 0.94 | 1.13 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 96 | 0.27 | 0.84 | .88 | 99 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 347 | 76 | 0.22 | 0.92 | 1.21 | 99 | 1.7 | 10 | 60/16 |
| F32T8/25W | 4 | 347 | 87 | 0.25 | 0.84 | .97 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 83 | 0.24 | 0.88 | 1.06 | 99 | 1.7 | 10 | 0/-18 |
| F25T8 | 3 | 347 | 68 | 0.20 | 0.96 | 1.41 | 99 | 1.7 | 10 | 0/-18 |
| F25T8/WM | 4 | 347 | 71 | 0.20 | 0.88 | 1.24 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 52 | 0.17 | 0.84 | 1.62 | 99 | 1.7 | 10 | 0/-18 |
| F17T8 | 3 | 347 | 48 | 0.14 | 0.91 | 1.90 | 98 | 1.7 | 10 | 0/-18 |
| F17T8/WM | 4 | 347 | 44 | 0.13 | 0.84 | 1.91 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 47 | 0.14 | 0.76 | 1.62 | 98 | 1.7 | 12 | 0/-18 |
| FE15T8 | 3 | 347 | 38 | 0.12 | 0.82 | 2.16 | 91 | 1.7 | 36 | 0/-18 |
| | 4 | 347 | 87 | 0.25 | 0.89 | 1.02 | 99 | 1.7 | 10 | 0/-18 |
| F25T12 | 3 | 347 | 72 | 0.21 | 0.97 | 1.35 | 99 | 1.7 | 10 | 0/-18 |

Safety and performance



UL Class P



UL Type 1 Outdoor



UL Type HL

ICES-005 for EMI and RFI FCC – CLASS A Non-Consumer

ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 Product is compliant with material restriction requirements of RoHS

UltraMax® General Series 347V Instant Start High Performance T8 Instant Start Ballasts

74099 – GE259MAX-G-347 (Replaces GE259-N-347)

UltraMax® G-Series 347V Instant Start

High-Efficiency

2 or 1– F96T8 347V “N” 0.87 BF UltraMax®G

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Light-weight, Slim Profile Mini Can Housing
- Parallel lamp operation means system maintenance is easier to manage
- Cold temperature 0°F Minimum Starting Temperature

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic – High-Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 74099 | 74100 | | |

Dimensions

Wiring diagram – LFL 18 – see example on Page 10-61
Case dimensions – Ref Drawing -A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.04lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |


Lead lengths

| | |
|-------|-----------------|
| Black | 22 in (559 mm) |
| White | 22 in (559 mm) |
| Blue | 46 in (1168 mm) |
| Red | 78 in (1981 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F96T8 | 2 | 347 | 108 | 0.31 | 0.88 | 0.81 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 347 | 67 | 0.20 | 1.06 | 1.58 | 9798 | 1.7 | 10 | 0/-18 |
| F96T8/WM | 2 | 347 | 102 | 0.29 | 0.88 | 0.86 | 9999 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 64 | 0.19 | 1.05 | 1.64 | 9798 | 1.7 | 10 | 60/16 |
| F96T8/WMP | 2 | 347 | 95 | 0.27 | 1.05 | 1.11 | 9999 | 1.7 | 10 | 60/16 |
| | 1 | 347 | 60 | 0.17 | 1.26 | 2.10 | 9698 | 1.7 | 10 | 60/16 |

Safety and performance





 ICES-005 for EMI and RFI FCC – CLASS A Non-Consumer

ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991 Product is compliant with material restriction requirements of RoHS

ProLine® T8 Instant Start 120V and 277V High Performance

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps

23673 – GE-332-120-N

ProLine® T8 Instant Start High Performance

3 or 2 – F32T8 120V “N” .87 BF ProLine®

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic – Standard Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A(20-24 decibels) |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 23673 | 24165 | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 3 | 120 | 85 | 0.73 | 0.87 | 1.02 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 65 | 0.56 | 0.94 | 1.44 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 79 | 0.68 | 0.86 | 1.08 | 99 | 1.7 | 10 | 60/16 |
| F32T8/WM | 2 | 120 | 60 | 0.51 | 0.94 | 1.56 | 99 | 1.7 | 10 | 60/16 |
| F40T8 | 2 | 120 | 78 | 0.67 | | | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 72 | 0.62 | 0.84 | 1.16 | 99 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 120 | 54 | 0.47 | 0.91 | 1.68 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 69 | 0.60 | 0.87 | 1.26 | 99 | 1.7 | 10 | 0/-18 |
| F25T12 | 2 | 120 | 54 | 0.46 | 0.94 | 1.74 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 67 | 0.58 | 0.87 | 1.29 | 99 | 1.7 | 10 | 0/-18 |
| F25T8 | 2 | 120 | 51 | 0.44 | 0.97 | 1.90 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 47 | 0.41 | 0.91 | 1.93 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 30 | 0.31 | 0.97 | 3.23 | 99 | 1.7 | 12 | 0/-18 |
| F17T8 | 2 | 120 | 30 | 0.26 | 0.98 | 3.26 | 98 | 1.7 | 13 | 0/-18 |

Safety and performance



UL Type 1 Outdoor



UL Type HL

FCC – CLASS A Non-Consumer



UL Class P



US LISTED

Product is compliant with material restriction requirements of RoHS

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Lightweight, low-profile housing
- < 10% THD, > 99% power factor
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality, with no visible striations

Dimensions

Wiring diagram – LFL 1C – see example on Page 10-61

Case dimensions – Ref Drawing – A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-----------------|-----------------|
| Length (± 1 in) | |
| Black | 25 in (635 mm) |
| Red | 45 in (1143 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |

ProLine® T8 Instant Start 120V and 277V High Performance T8 Instant Start Ballasts For 46 – 59W 4 ft – 8 ft Slimline Lamps

23677 – GE-259-120-N

ProLine® T8 Instant Start High Performance

2 or 1 – F96T8 120V Normal Light .87 BF ProLine®

- High-performance electronic ballast for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Lightweight, low-profile housing
- < 10% THD, > 99% power factor
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation control for better light quality, with no visible striations

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic – Standard Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| | | | |
|----------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 23677 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F96T8 | 2 | 120 | 112 | 0.96 | 0.87 | 0.77 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 71 | 0.61 | 1.04 | 1.46 | 99 | 1.7 | 10 | 0/-18 |
| F96T8/WM | 2 | 120 | 104 | 0.89 | 0.87 | 0.83 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 65 | 0.56 | 1.04 | 1.60 | 99 | 1.7 | 10 | 0/-18 |
| F96T8/WMF | 1 | 120 | | | | | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | | | | | 99 | 1.7 | 10 | 0/-18 |

Dimensions

Wiring diagram – LFL 1B – see example on Page 10-61

Case dimensions – Ref Drawing - A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|----------------------------------|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------|------------------------|
| | Length (± 1 in) |
| Black | 25 in (635 mm) |
| Red | 66 in (1676 mm) |
| White | 25 in (635 mm) |
| Blue | 58 in (1473 mm) |

Safety and performance



UL Type 1 Outdoor



UL Type HL

FCC – CLASS A Non-Consumer



UL Class P



LISTED

Product is compliant with material restriction requirements of RoHS

Residential Grade ProLine® T8 120V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

97782 – GE232-120-RES

Residential Grade ProLine® T8 120V

2 or 1- F32T8 120V "N" 0.87 BF Residential ProLine®

| General characteristics | |
|------------------------------|--|
| Ballast Type | Electronic – Standard Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 97782 | | 93884 | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 2 | 120 | 54 | 0.8 | 0.83 | 1.54 | 55 | 1.7 | 79 | 0/-18 |
| | 1 | 120 | 33 | 0.55 | 0.99 | 3.00 | 51 | 1.7 | 82 | 0/-18 |
| F32T8/WM | 2 | 120 | 50 | 0.76 | 0.82 | 1.64 | 55 | 1.7 | 80 | 60/16 |
| | 1 | 120 | 32 | 0.53 | 0.99 | 3.09 | 50 | 1.7 | 83 | 60/16 |
| F28T8 | 2 | 120 | 47 | 0.72 | 0.81 | 1.72 | 54 | 1.7 | 81 | 60/16 |
| | 1 | 120 | 30 | 0.5 | 0.97 | 3.23 | 50 | 1.7 | 83 | 60/16 |
| F25T8 | 2 | 120 | 42 | 0.65 | 0.88 | 2.10 | 53 | 1.7 | 82 | 0/-18 |
| | 1 | 120 | 26 | 0.45 | 1.04 | 4.00 | 48 | 1.7 | 84 | 0/-18 |
| F17T8 | 2 | 120 | 30 | 0.49 | 0.88 | 2.93 | 49 | 1.7 | 85 | 0/-18 |
| | 1 | 120 | 19 | 0.35 | 1.03 | 5.42 | 45 | 1.7 | 85 | 0/-18 |

Safety and performance



UL Class P



UL Type 1 Outdoor



UL Type HL

FCC - CLASS B Consumer ANSI - C82.11 - Cons 2002, ANSI - C62.41 - 1991

Product is compliant with material restriction requirements of RoHS

- Residential grade -instant start
- EMI/RFI meets FCC Class B Consumer Limits
- Meets ballast requirements of Energy Star Residential Lighting Fixture program
- Light-weight, Slim Profile Mini Can Housing

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1B – see example on Page 10-61 | |
| Case dimensions – Ref Drawing - A – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.04 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 45 in (1143 mm) |

Residential Grade ProLine® T8 120V

T8 Instant Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

97783 – GE432-120-RES

Residential Grade ProLine® T8 120V

4 or 3 – F32T8 120V “N” .87 BF Residential ProLine®

- Residential grade -instant start
- EMI/RFI meets FCC Class B Consumer Limits
- Meets ballast requirements of Energy Star Residential Lighting Fixture program
- Light-weight, Slim Profile Mini Can Housing

General characteristics

| | |
|------------------------------|--|
| Ballast Type | Electronic - Standard Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation(+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-----------|
| Supply Current Frequency | 50Hz/60Hz |
|--------------------------|-----------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 97783 | | 93885 | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 4 | 120 | 105 | 1.62 | 0.83 | 0.79 | 57 | 1.7 | 78 | 0/-18 |
| | 3 | 120 | 86 | 1.38 | 0.88 | 1.02 | 55 | 1.7 | 79 | 0/-18 |
| | 4 | 120 | 98 | 1.50 | 0.81 | 0.82 | 56 | 1.7 | 80 | 60/16 |
| F32T8/W/M | 3 | 120 | 81 | 1.29 | 0.88 | 1.08 | 54 | 1.7 | 80 | 60/16 |
| | 4 | 120 | 90 | 1.42 | 0.79 | 0.87 | 55 | 1.7 | 80 | 60/16 |
| F28T8 | 3 | 120 | 75 | 1.23 | 0.87 | 1.16 | 53 | 1.7 | 80 | 60/16 |
| | 4 | 120 | 83 | 1.31 | 0.87 | 1.04 | 54 | 1.7 | 82 | 0/-18 |
| F25T8 | 3 | 120 | 68 | 1.13 | 0.94 | 1.38 | 52 | 1.7 | 81 | 0/-18 |
| | 4 | 120 | 58 | 0.98 | 0.86 | 1.48 | 51 | 1.7 | 85 | 0/-18 |
| F17T8 | 3 | 120 | 48 | 0.84 | 0.93 | 1.93 | 49 | 1.7 | 83 | 0/-18 |

Safety and performance



Product is compliant with material restriction requirements of RoHS

Dimensions

Wiring diagram – LFL 1D – see example on Page 10-61

Case dimensions – Ref Drawing – A – see Page 10-62

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.87 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.04 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-----------------|-----------------|
| White and Black | 25 in (635 mm) |
| Blue | 31 in (787 mm) |
| Red | 31 in (787 mm) |
| Yellow | 47 in (1194 mm) |

Ballasts

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

Electromagnetic T8 120V and 277V Ballasts

T8 Rapid Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

87125 – GEM232T8RS120

Electromagnetic T8 Ballasts

2 – F32T8, RS, 120V, Magnetic Ballast (M232SR120C)

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Magnetic – Rapid Start |
| Starting Method | Rapid start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 5% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 87125 | | | 87125 |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts (V) | System Watts (W) | Nom. Line Current (A) | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp. (°F/°C) |
|---------|------------|----------------|------------------|-----------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|-----------------------------|
| F32T8 | 2 | 120 | 73 | 0.65 | 0.92 | 1.25 | 93 | 1.7 | 6 | 50/10 |
| | 1 | 120 | 55 | 0.46 | 1.20 | 2.15 | 99 | 1.9 | 13 | 50/10 |
| F32T8/U | 2 | 277 | 73 | 0.65 | 0.92 | 1.25 | 93 | 1.7 | 6 | 50/10 |
| | 1 | 277 | 55 | 0.46 | 1.20 | 2.15 | 99 | 1.9 | 13 | 50/10 |
| F25T8 | 2 | 120 | 66 | 0.57 | 0.97 | 1.45 | 98 | 1.6 | 6 | 50/10 |
| | 1 | 120 | 50 | 0.43 | 1.00 | 2.00 | 99 | 1.9 | 16 | 50/10 |
| F25T8/U | 2 | 277 | 66 | 0.57 | 0.97 | 1.45 | 98 | 1.6 | 6 | 50/10 |
| | 1 | 277 | 50 | 0.43 | 1.00 | 2.00 | 99 | 1.9 | 16 | 50/10 |
| F17T8 | 2 | 120 | 53 | 0.45 | 1.00 | 1.90 | 99 | 1.9 | 12 | 50/10 |
| | 1 | 120 | 44 | 0.38 | 1.10 | 2.40 | 96 | 2.0 | 23 | 50/10 |
| F17T8/U | 2 | 277 | 53 | 0.45 | 1.00 | 1.90 | 99 | 1.9 | 12 | 50/10 |
| | 1 | 277 | 44 | 0.38 | 1.10 | 2.40 | 96 | 2.0 | 23 | 50/10 |

Safety and performance



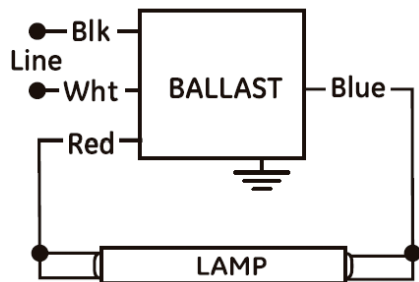
- Magnetic ballast construction for all general fluorescent lighting
- Extends lamp life in frequently switched applications
- Color coded ballast and package labels reduce misapplication errors (120V Yellow, 277V Red)
- Great for areas requiring no EMI/RFI noise
- Anti-striation control for better light quality, with no visible striations

| Dimensions | |
|---|-----------------|
| Wiring diagram – 87125 – see example on Page 10-61 | |
| Case dimensions – 87125 – see Page 10-62 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 2.4 in (61 mm) |
| Height (H) | 1.5 in (38 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.7 in (43 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 3.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Length (± 1 in) | |
| Blue and Red | 15 in (381 mm) |
| White and Black | 15 in (381 mm) |
| Yellow | 15 in (381 mm) |

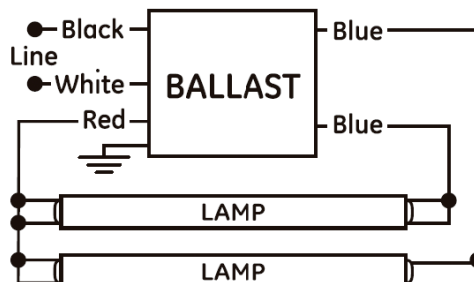
Wiring Diagrams

T8 Instant Start Ballasts

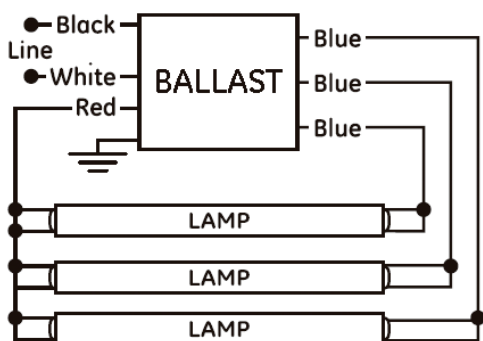
LFL 1A



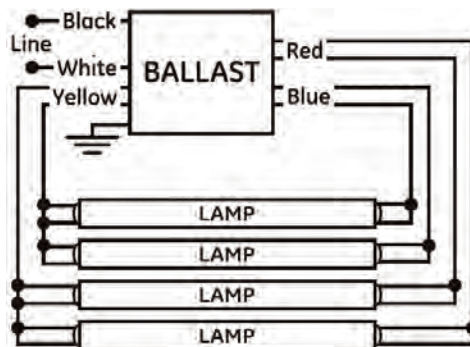
LFL 1B



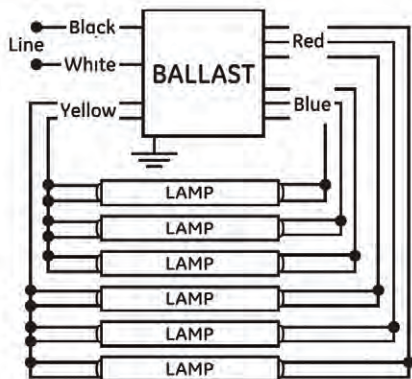
LFL 1C



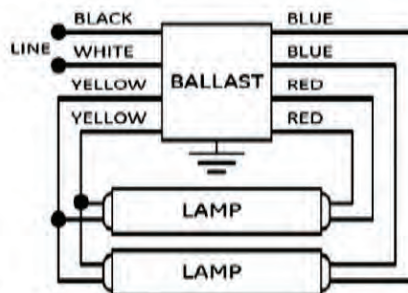
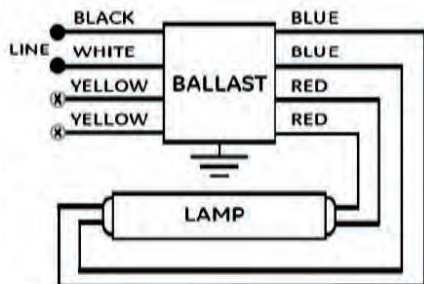
LFL 1D



LFL -6H



87125



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

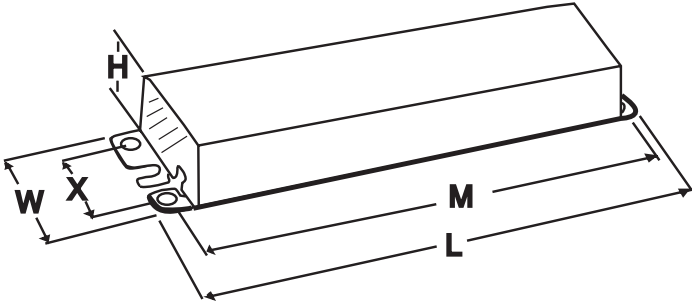
Compact Fluorescent

HID Electronic & Electromagnetic

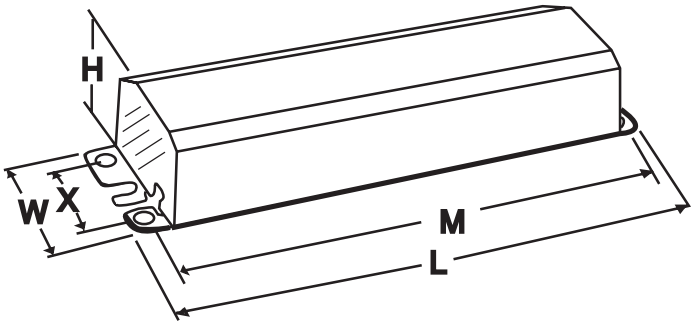
Case Dimensions

T8 Instant Start Ballasts

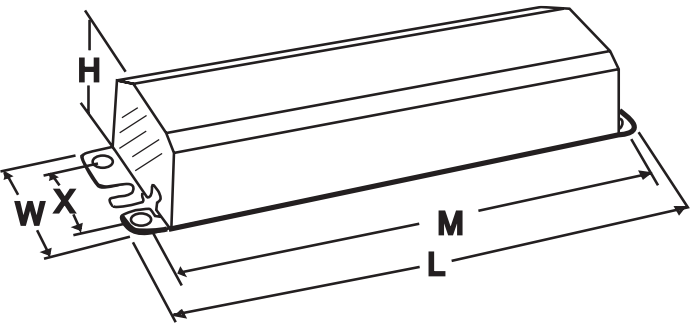
-A



ST



LG



87125

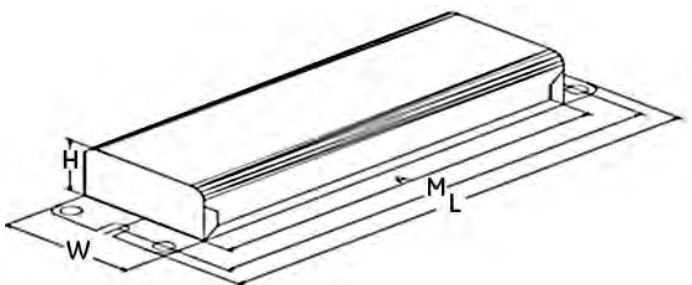


Table of Contents

T8 Programmed Start Ballasts

UltraStart® T8 120–277V Programmed Start
 For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps..... 11-2

Wiring Diagrams.....11-21

Case Dimensions11-22

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

75952 – GE132-MVPS-L

UltraStart® T8 Programmed Start

1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®

- A new generation of ultra-efficient Programmed Start ballasts
- Anti-striation circuitry reduces striations with energy saving lamps.
- Extends lamp life in frequently switched applications (>100,000 on/off cycles)
- Multi-voltage technology handles voltage from 120 to 277V
- Starting time visually the same as instant start
- Light-weight, Slim Profile Mini Can Housing

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic - Program/ Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10 % |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70 °C (158 °F) |
| Ballast Factor | Low-PS (.71) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Inherently Thermally Protected, UL Class P, Universal voltage |

| Electrical characteristics | |
|--------------------------------|------------|
| Supply Current Frequency (MIN) | 50Hz/60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75952 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 1 | 120 | 25 | 0.22 A | 0.72 | 2.88 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 25 | 0.10 A | 0.72 | 2.88 | 96 | 1.7 | 10 | 0/-18 |
| F32T8/WM | 1 | 120 | 23 | 0.20 A | 0.71 | 3.09 | 99 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 23 | 0.09 A | 0.71 | 3.09 | 95 | 1.7 | 10 | 50/10 |
| F28T8 | 1 | 120 | 22 | 0.19 A | 0.71 | 3.23 | 99 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 22 | 0.09 A | 0.71 | 3.23 | 94 | 1.7 | 10 | 50/10 |
| F32T8/25W | 1 | 120 | 20 | 0.18 A | 0.71 | 3.55 | 99 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 21 | 0.08 A | 0.71 | 3.38 | 94 | 1.7 | 10 | 50/10 |
| F25T8 | 1 | 120 | 19 | 0.17 A | 0.73 | 3.65 | 93 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 17 | 0.15 A | 0.71 | 4.18 | 99 | 1.7 | 10 | 50/10 |
| F25T8/WM | 1 | 120 | 18 | 0.07 A | 0.71 | 3.94 | 92 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 14 | 0.12 A | 0.75 | 5.36 | 99 | 1.7 | 10 | 0/-18 |
| F17T8 | 1 | 120 | 15 | 0.06 A | 0.75 | 5.00 | 89 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 13 | 0.11 A | 0.74 | 5.69 | 99 | 1.7 | 10 | 50/10 |
| F17T8/WM | 1 | 120 | 13 | 0.06 A | 0.74 | 5.69 | 87 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 12 | 0.10 A | 0.66 | 5.50 | 99 | 1.7 | 10 | 0/-18 |
| FE15T8 | 1 | 120 | 13 | 0.10 A | 0.66 | 5.08 | 86 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 29 | 0.25 A | 0.71 | 2.45 | 99 | 1.7 | 10 | 0/-18 |
| F40T8 | 1 | 120 | 29 | 0.11 A | 0.71 | 2.45 | 97 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 20 | 0.18 A | 0.72 | 3.60 | 99 | 1.7 | 10 | 0/-18 |
| F25T12 | 1 | 277 | 21 | 0.08 A | 0.72 | 3.43 | 94 | 1.7 | 10 | 0/-18 |

Safety and performance  UL Type 1 Outdoor  UL Type HL  FCC – CLASS A Non-Consumer  UL Class P  ANSI – C62.41  Product is compliant with material restriction requirements of RoHS

 cUL Listed  UL Listed 

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

75953 – GE132-MVPS-N

UltraStart® T8 Programmed Start

1 F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®

- < 10% THD, > 99% power factor
- A new generation of ultra-efficient Programmed Start ballasts
- Anti-striation circuitry reduces striations with energy saving lamps.
- Extends lamp life in frequently switched applications (>100,000 on/off cycles)
- Multi-voltage technology handles voltage from 120 to 277V
- Starting time visually the same as instant start
- Light-weight, Slim Profile Mini Can Housing

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic - Program/ Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10 % |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70 °C (158 °F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Inherently Thermally Protected, UL Class P, Universal voltage |

| Electrical characteristics | |
|--------------------------------|------------|
| Supply Current Frequency | 50Hz |
| Supply Current Frequency (MIN) | 50Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75953 | | | |

| Dimensions | |
|--|-------------------|
| Wiring diagram – LFL PS1 – see example on page 11-21 | |
| Case dimensions- Ref Drawing -A – see Page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Length (± 1 in.) | |
| Yellow | 47.0 in (1194 mm) |
| White | 25.0 in (635 mm) |
| Red | 33.0 in (838 mm) |
| Blue | 33.0 in (838 mm) |
| Black | 25.0 in (635 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F32T8 | 1 | 120 | 30 | 0.26 A | 0.89 | 2.97 | 99 | 1.7 | 10 | 0/-18 | |
| | 1 | 277 | 30 | 0.12 A | 0.89 | 2.97 | 95 | 1.7 | 10 | 0/-18 | |
| F32T8/WM | 1 | 120 | 28 | 0.24 A | 0.87 | 3.11 | 99 | 1.7 | 10 | 50/10 | |
| | 1 | 277 | 28 | 0.11 A | 0.87 | 3.11 | 94 | 1.7 | 10 | 50/10 | |
| F28T8 | 1 | 120 | 26 | 0.22 A | 0.87 | 3.35 | 99 | 1.7 | 10 | 50/10 | |
| | 1 | 277 | 26 | 0.10 A | 0.87 | 3.35 | 93 | 1.7 | 10 | 50/10 | |
| F32T8/25W | 1 | 120 | 24 | 0.21 A | 0.86 | 3.58 | 99 | 1.7 | 10 | 50/10 | |
| | 1 | 277 | 24 | 0.10 A | 0.86 | 3.58 | 93 | 1.7 | 10 | 50/10 | |
| F25T8 | 1 | 120 | 24 | 0.09 A | 0.89 | 3.71 | 92 | 1.7 | 10 | 0/-18 | |
| | 1 | 277 | 24 | 0.20 A | 0.89 | 3.71 | 99 | 1.7 | 10 | 0/-18 | |
| F25T8/WM | 1 | 120 | 20 | 0.18 A | 0.88 | 4.40 | 99 | 1.7 | 10 | 50/10 | |
| | 1 | 277 | 20 | 0.18 A | 0.88 | 4.40 | 99 | 1.7 | 10 | 50/10 | |
| F17T8 | 1 | 120 | 21 | 0.08 A | 0.88 | 4.19 | 90 | 1.7 | 10 | 50/10 | |
| | 1 | 277 | 17 | 0.15 A | 0.91 | 5.35 | 99 | 1.7 | 10 | 0/-18 | |
| F17T8/WM | 1 | 120 | 18 | 0.07 A | 0.91 | 5.06 | 87 | 1.7 | 10 | 0/-18 | |
| | 1 | 277 | 15 | 0.13 A | 0.90 | 6.00 | 99 | 1.7 | 10 | 50/10 | |
| FE15T8 | 1 | 120 | 15 | 0.07 A | 0.90 | 6.00 | 85 | 1.7 | 10 | 50/10 | |
| | 1 | 277 | 14 | 0.12 A | 0.80 | 5.71 | 99 | 1.7 | 10 | 0/-18 | |
| F40T8 | 1 | 120 | 15 | 0.06 A | 0.80 | 5.33 | 83 | 1.7 | 10 | 0/-18 | |
| | 1 | 277 | 35 | 0.31 A | 0.88 | 2.51 | 99 | 1.7 | 10 | 0/-18 | |
| F25T12 | 1 | 120 | 35 | 0.01 A | 0.88 | 2.51 | 96 | 1.7 | 10 | 0/-18 | |
| | 1 | 277 | 25 | 0.21 A | 0.89 | 3.56 | 99 | 1.7 | 10 | 0/-18 | |
| | 1 | 277 | 25 | 0.10 A | 0.89 | 3.56 | 93 | 1.7 | 10 | 0/-18 | |

Safety and performance

UL Type 1 Outdoor
 UL Type HL
 FCC – CLASS A Non-Consumer
 UL Class P
 ANSI – C62.41
 Product is compliant with material restriction requirements of RoHS

cUL Listed
 UL Listed
 NEMA Premium

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

75954 – GE132-MVPS-H

UltraStart® T8 Programmed Start

1 F32T8 120V-277V High Light 1.18 BF <10% THD UltraStart®






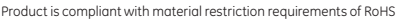




| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Program/ Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10 % |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70 °C (158 °F) |
| Ballast Factor | High (1.18) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency (MIN) | 60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75954 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 1 | 120 | 39 | 0.35 A | 1.18 | 3.03 | 98 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 39 | 0.15 A | 1.18 | 3.03 | 97 | 1.7 | 10 | 0/-18 |
| F32T8/WM | 1 | 120 | 36 | 0.32 A | 1.16 | 3.22 | 99 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 36 | 0.14 A | 1.16 | 3.22 | 96 | 1.7 | 10 | 50/10 |
| F28T8 | 1 | 120 | 33 | 0.29 A | 1.16 | 3.52 | 99 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 33 | 0.13 A | 1.16 | 3.52 | 96 | 1.7 | 10 | 50/10 |
| F32T8/25W | 1 | 120 | 31 | 0.27 A | 1.15 | 3.71 | 99 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 31 | 0.12 A | 1.15 | 3.71 | 95 | 1.7 | 10 | 50/10 |
| F25T8 | 1 | 120 | 30 | 0.27 A | 1.17 | 3.90 | 95 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 30 | 0.12 A | 1.17 | 3.90 | 99 | 1.7 | 10 | 0/-18 |
| F25T8/WM | 1 | 120 | 26 | 0.23 A | 1.16 | 4.46 | 99 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 27 | 0.10 A | 1.16 | 4.30 | 94 | 1.7 | 10 | 50/10 |
| F17T8 | 1 | 120 | 21 | 0.19 A | 1.19 | 5.67 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 22 | 0.09 A | 1.19 | 5.41 | 91 | 1.7 | 10 | 0/-18 |
| F17T8/WM | 1 | 120 | 19 | 0.17 A | 1.18 | 6.21 | 99 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 19 | 0.08 A | 1.18 | 6.21 | 89 | 1.7 | 10 | 50/10 |
| FE15T8 | 1 | 120 | 17 | 0.15 A | 1.05 | 6.18 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 18 | 0.08 A | 1.05 | 5.83 | 88 | 1.7 | 10 | 0/-18 |
| F40T8 | 1 | 120 | 48 | 0.42 A | 1.18 | 2.46 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 47 | 0.18 A | 1.18 | 2.51 | 98 | 1.7 | 10 | 0/-18 |
| F25T12 | 1 | 120 | 33 | 0.29 A | 1.25 | 3.79 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 33 | 0.13 A | 1.25 | 3.79 | 96 | 1.7 | 10 | 0/-18 |

Safety and performance

 UL Type 1 Outdoor
  UL Type HL
  FCC – CLASS A Non-Consumer
  UL Class P
  ANSI – C62.41
  NEMA Premium
  cUL Listed
  UL Listed
  NRCAN
  Product is compliant with material restriction requirements of RoHS

High Temperature Rated: Suitable for high temperature applications 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty

- A new generation of ultra-efficient Programmed Start ballasts
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Multi-voltage technology handles voltage from 120 to 277V
- Anti-striation circuitry reduces striations with energy saving lamps.

| Dimensions | |
|---|-------------------------|
| Wiring diagram – LFL PS1 – see example on page 11-21 | |
| Case dimensions- Ref Drawing -A – see Page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (+ 1 in.) |
| Yellow | 47.0 in (1194 mm) |
| White | 25.0 in (635 mm) |
| Black | 25.0 in (635 mm) |
| Blue | 33.0 in (838 mm) |

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

96714 – GE232-MVPS-N

UltraStart® T8 Programmed Start

2 or 1 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®

- < 10% THD, > 99% power factor
- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Anti-striation circuitry reduces striations with energy saving lamps
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Multi-voltage technology handles voltage from 120 to 277V
- Light-weight, Slim Profile Mini Can Housing

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature [MAX] | 104°F (40°C) |
| Case Temperature [MAX] | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Additional Info | Anti-striation control, Inherently Thermally Protected, UL Class P, Universal voltage |

| Electrical characteristics | |
|--------------------------------|---|
| Supply Current Frequency | 50 Hz/Supply Current Frequency (MIN)/ 50 Hz/ 60 (MIN) |
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 96714 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 2 | 120 | 59 | 0.48 A | 0.89 | 1.50 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 58 | 0.21 A | 0.89 | 1.53 | 96 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 37 | 0.30 A | 1.05 | 2.83 | 98 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 37 | 0.14 A | 1.05 | 2.83 | 93 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 55 | 0.45 A | 0.88 | 1.60 | 99 | 1.7 | 10 | 50/10 |
| | 2 | 277 | 54 | 0.20 A | 0.88 | 1.62 | 96 | 1.7 | 10 | 50/10 |
| F32T8/W/M | 1 | 120 | 34 | 0.28 A | 1.02 | 3.00 | 98 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 34 | 0.13 A | 1.02 | 3.00 | 93 | 1.7 | 10 | 50/10 |
| | 2 | 120 | 51 | 0.42 A | 0.86 | 1.68 | 99 | 1.7 | 10 | 50/10 |
| | 2 | 277 | 50 | 0.18 A | 0.86 | 1.72 | 95 | 1.7 | 10 | 50/10 |
| | 1 | 120 | 32 | 0.26 A | 1.00 | 3.12 | 98 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 32 | 0.12 A | 1.00 | 3.12 | 92 | 1.7 | 10 | 50/10 |

Other compatible lamps: F17T8, F25T8, F32T8/25W

Safety and performance

UL Type 1 Outdoor
 UL Type HL
 FCC – CLASS A Non-Consumer
 UL Class P
 ANSI – C62.41
 cUL Listed
 UL Listed
 NEMA Premium

Product is compliant with material restriction requirements of RoHS

96720 – GE232-MVPS-L

UltraStart® T8 Programmed Start

2 or 1 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Anti-striation circuitry reduces striations with energy saving lamps
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature [MAX] | 104°F (40°C) |
| Case Temperature [MAX] | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Additional Info | Anti-striation control, Inherently Thermally Protected, UL Class P, Universal voltage |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 96720 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 2 | 120 | 47 | 0.39 A | 0.71 | 1.51 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 47 | 0.17 A | 0.71 | 1.51 | 95 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 30 | 0.28 A | 0.81 | 2.70 | 98 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 30 | 0.11 A | 0.81 | 2.70 | 90 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 44 | 0.36 A | 0.67 | 1.52 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 44 | 0.16 A | 0.67 | 1.52 | 95 | 1.7 | 10 | 60/16 |
| F32T8/W/M | 1 | 120 | 28 | 0.26 A | 0.79 | 2.82 | 98 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 28 | 0.11 A | 0.79 | 2.82 | 90 | 1.7 | 10 | 60/16 |
| | 2 | 120 | 41 | 0.34 A | 0.65 | 1.58 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 41 | 0.15 A | 0.65 | 1.58 | 94 | 1.7 | 10 | 60/16 |
| | 1 | 120 | 26 | 0.24 A | 0.77 | 2.96 | 98 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 26 | 0.10 A | 0.77 | 2.96 | 90 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 277 | 38 | 0.14 A | 0.73 | 1.92 | 94 | 1.7 | 16 | 0/-18 |
| | 2 | 120 | 37 | 0.31 A | 0.73 | 1.97 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 25 | 0.09 A | 0.86 | 3.44 | 85 | 1.7 | 16 | 0/-18 |
| | 1 | 120 | 24 | 0.23 A | 0.86 | 3.58 | 97 | 1.7 | 10 | 0/-18 |

Other compatible lamps: F17T8, F32T8/25W

Safety and performance

UL Type 1 Outdoor
 UL Type HL
 UL Class P
 cUL Listed
 UL Listed
 Product is compliant with material restriction requirements of RoHS

See page E-1 for warranty information.

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

29675 – GE-232-MVPS-H

UltraStart® T8 Programmed Start

2 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic – Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20–24 decibels) |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 29675 | 29651 | | |

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Multi-voltage technology handles voltage from 120 to 277V (H and XL series)
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps

Dimensions

| | |
|---|-----------------|
| Wiring diagram – LFL PS2 – see example on page 11-21 | |
| Case dimensions – Ref Drawing – A – see Page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 2.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Length (± 1 in) | |
| Blue and Red | 33 in (838 mm) |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Yellow | 47 in (1194 mm) |
| Blue | 33 in (838 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|----------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 2 | 120 | 75 | 0.64 A | 1.15 | 1.53 | 98 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 74 | 0.28 A | 1.15 | 1.55 | 94 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 47 | 0.19 A | 1.37 | 2.91 | 90 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 46 | 0.40 A | 1.37 | 2.97 | 98 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 69 | 0.60 A | 1.14 | 1.65 | 98 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 69 | 0.27 A | 1.14 | 1.65 | 95 | 1.7 | 10 | 60/16 |
| F32T8/WM | 1 | 120 | 43 | 0.36 A | 1.34 | 3.11 | 98 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 43 | 0.18 A | 1.34 | 3.11 | 90 | 1.7 | 10 | 60/16 |
| | 2 | 120 | 63 | 0.54 A | 1.10 | 1.74 | 94 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 62 | 0.25 A | 1.11 | 1.79 | 98 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 39 | 0.16 A | 1.29 | 3.30 | 89 | 1.7 | 10 | 60/16 |
| | F28T8 | 1 | 120 | 38 | 0.32 A | 1.29 | 3.39 | 98 | 1.7 | 10 |
| 2 | | 120 | 59 | 0.50 A | 1.14 | 1.93 | 98 | 1.7 | 10 | 0/-18 |
| 2 | | 277 | 59 | 0.24 A | 1.14 | 1.93 | 93 | 1.7 | 16 | 0/-18 |
| 1 | | 120 | 37 | 0.32 A | 1.34 | 3.62 | 98 | 1.7 | 10 | 0/-18 |
| F25T8 | 1 | 277 | 37 | 0.15 A | 1.34 | 3.62 | 87 | 1.7 | 21 | 0/-18 |

Other compatible lamps: F17T8, F32T8/25W

Safety and performance

 UL Type 1 Outdoor
  UL Type HL
 FCC – CLASS A Non-Consumer
 ANSI – C62.41
 FCC – CLASS A Non-Consumer
 ANSI – C62.41
  UL Class P
 cUL Listed
  UL Listed



High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

29671 – GE-232-MVPS-XL

UltraStart® T8 Programmed Start

2 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD

- A new generation of ultra-efficient Programmed Start ballasts
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Multi-voltage technology handles voltage from 120 to 277V (H and XL series)
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic – Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Ultra low |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|--------------|
| Supply Current Frequency | 50 Hz/ 60 Hz |
|--------------------------|--------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 29671 | | | |

Dimensions

Wiring diagram – LFL PS2 – see example on page 11-21

Case dimensions – Ref Drawing – A – see Page 11-22

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |

Mounting dimensions

| | |
|--|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths **Length (± 1 in)**

| | |
|-----------------|-----------------|
| Blue and Red | 33 in (838 mm) |
| White and Black | 25 in (635 mm) |
| Yellow | 47 in (1194 mm) |




Specifications by lamp and wattage



| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|----------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 2 | 120 | 45 | 0.39 A | 0.60 | 1.33 | 98.0 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 44 | 0.19 A | 0.60 | 1.36 | 90.0 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 28 | 0.12 A | 0.70 | 2.50 | 83.0 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 27 | 0.24 A | 0.70 | 2.59 | 98.0 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 42 | 0.15 A | 0.59 | 1.40 | 99.0 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 42 | 0.24 A | 0.59 | 1.40 | 87.0 | 1.7 | 10 | 60/16 |
| F32T8/WM | 1 | 120 | 27 | 0.22 A | 0.68 | 2.51 | 0.9 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 27 | 0.20 A | 0.68 | 2.51 | 81.0 | 1.7 | 10 | 60/16 |
| | 2 | 120 | 39 | 0.12 A | 0.59 | 1.51 | 99.0 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 39 | 0.15 A | 0.59 | 1.51 | 86.0 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 25 | 0.12 A | 0.67 | 2.68 | 79.0 | 1.7 | 10 | 60/16 |
| | 1 | 120 | 24 | 0.20 A | 0.67 | 2.68 | 98.0 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 120 | 36 | 0.31 A | 0.61 | 1.69 | 98.0 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 36 | 0.15 A | 0.61 | 1.69 | 87.0 | 1.7 | 15 | 0/-18 |
| | 1 | 277 | 23 | 0.10 A | 0.68 | 2.95 | 79.0 | 1.7 | 16 | 0/-18 |
| | 1 | 120 | 22 | 0.20 A | 0.68 | 3.09 | 98.0 | 1.7 | 10 | 0/-18 |

Other compatible lamps: F17T8, F32T8/25W

Safety and performance

Product is compliant with material restriction requirements of RoHS

 UL Type 1 Outdoor
 ANSI – C62.41
  UL Type HL
  NRCan
 FCC Part 18 Class B at 120 Volts

 UL Class P
 cUL Listed
  UL Listed

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

29676 – GE-332-MVPS-H

UltraStart® T8 Programmed Start

3 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |






| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 29676 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 3 | 120 | 110 | 0.95 A | 1.15 | 1.04 | 98 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 108 | 0.41 A | 1.15 | 1.06 | 96 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 82 | 0.70 A | 1.28 | 1.56 | 98 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 82 | 0.32 A | 1.28 | 1.56 | 94 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 102 | 0.88 A | 1.13 | 1.10 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 100 | 0.39 A | 1.14 | 1.14 | 96 | 1.7 | 10 | 60/16 |
| F32T8/WM | 2 | 120 | 77 | 0.64 A | 1.26 | 1.63 | 98 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 76 | 0.30 A | 1.26 | 1.65 | 95 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 92 | 0.79 A | 1.09 | 1.18 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 91 | 0.35 A | 1.10 | 1.20 | 96 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 69 | 0.27 A | 1.23 | 1.78 | 94 | 1.7 | 10 | 60/16 |
| | 2 | 120 | 68 | 0.58 A | 1.23 | 1.81 | 98 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 120 | 86 | 0.74 A | 1.14 | 1.32 | 98 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 85 | 0.33 A | 1.14 | 1.34 | 96 | 1.7 | 14 | 0/-18 |
| | 2 | 120 | 65 | 0.56 A | 1.25 | 1.92 | 98 | 1.7 | 10 | 0/-18 |
| F25T8 | 2 | 277 | 64 | 0.26 A | | | 93 | 1.7 | 16 | 0/-18 |

Other compatible lamps: F17T8, F32T8/25W

Safety and performance

 UL Type 1 Outdoor
  UL Type HL
 Product is compliant with material restriction requirements of RoHS
  FCC – CLASS A Non-Consumer
  ANSI – C62.41
  UL Class P

cUL Listed  UL Listed  NEMA Premium

High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Multi-voltage technology handles voltage from 120 to 277V (H and XL series)
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps

| Dimensions | |
|---|------------------------|
| Wiring diagram – LFL PS3 – see example on page 11-21 | |
| Case dimensions – Ref Drawing – A – see Page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 2.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in) |
| White and Black | 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

96715 – GE332-MVPS-N

UltraStart® T8 Programmed Start

3 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 104°F (40°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Additional Info | Anti-striation control, TCLP compliant, Inherently Thermally Protected, UL Class P, Universal voltage |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 96715 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 3 | 120 | 86 | 0.72 A | 0.89 | 1.03 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 84 | 0.30 A | 0.89 | 1.05 | 97 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 66 | 0.54 A | 0.98 | 1.48 | 98 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 65 | 0.24 A | 0.98 | 1.50 | 95 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 80 | 0.66 A | 0.86 | 1.07 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 79 | 0.28 A | 0.86 | 1.08 | 97 | 1.7 | 10 | 60/16 |
| F32T8/W/M | 2 | 120 | 61 | 0.51 A | 0.96 | 1.57 | 98 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 61 | 0.22 A | 0.96 | 1.57 | 95 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 73 | 0.61 A | 0.84 | 1.15 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 72 | 0.26 A | 0.84 | 1.16 | 97 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 120 | 57 | 0.47 A | 0.93 | 1.63 | 98 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 57 | 0.21 A | 0.93 | 1.63 | 95 | 1.7 | 10 | 60/16 |

Other compatible lamps: F17T8, F25T8, F32T8/25W

Safety and performance

Product is compliant with material restriction requirements of RoHS

 UL Listed
  NEMA Premium
  UL Type 1 Outdoor
  ANSI – C62.41
  UL Type HL
  FCC – CLASS A Non-Consumer
  UL Class P

96721 – GE332-MVPS-L

UltraStart® T8 Programmed Start

3 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 104°F (40°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Additional Info | Anti-striation control, Inherently Thermally Protected, UL Class P, Universal voltage |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 96721 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 3 | 120 | 69 | 0.60 A | 0.71 | 1.02 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 68 | 0.26 A | 0.71 | 1.04 | 96 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 52 | 0.45 A | 0.77 | 1.48 | 98 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 52 | 0.19 A | 0.77 | 1.48 | 92 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 63 | 0.54 A | 0.67 | 1.06 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 62 | 0.24 A | 0.67 | 1.08 | 95 | 1.7 | 10 | 60/16 |
| F32T8/W/M | 2 | 120 | 48 | 0.40 A | 0.75 | 1.56 | 98 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 48 | 0.18 A | 0.75 | 1.56 | 92 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 58 | 0.49 A | 0.66 | 1.13 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 58 | 0.22 A | 0.66 | 1.13 | 95 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 120 | 45 | 0.38 A | 0.74 | 1.64 | 98 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 45 | 0.17 A | 0.74 | 1.64 | 92 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 58 | 0.22 A | 0.66 | 1.13 | 95 | 1.7 | 15 | 0/-18 |
| F25T8 | 3 | 120 | 54 | 0.45 A | 0.74 | 1.37 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 41 | 0.35 A | 0.82 | 2.00 | 98 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 41 | 0.158 A | 0.82 | 2.00 | 0.82 | 1.7 | 15 | 0/-18 |

Other compatible lamps: F17T8, F32T8/25W

Safety and performance

 UL Type 1 Outdoor
  UL Type HL
 Product is compliant with material restriction requirements of RoHS
  FCC – CLASS A Non-Consumer
  UL Class P
  ANSI – C62.41

See page E-1 for warranty information.

cUL Listed  UL Listed



- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Anti-striation circuitry reduces striations with energy saving lamps
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Parallel lamp operation means system maintenance is easier to manage
- Starting time visually the same as instant start

Dimensions

Wiring diagram – LFL P53 – see example on page 11-21

Case dimensions – Ref Drawing – A – see Page 11-22

| Length (L) | 9.5 in (241 mm) |
|--|-----------------|
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| | Length (± 1 in) |
| White and Black | 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Anti-striation circuitry reduces striations with energy saving lamps
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage

Dimensions

Wiring diagram – LFL P53 – see example on page 11-21

Case dimensions – Ref Drawing – A – see Page 11-22

| Length (L) | 9.5 in (241 mm) |
|--|-----------------|
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| | Length (± 1 in) |
| White and Black | 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

29672 – GE-332-MVPS-XL

UltraStart® T8 Programmed Start
3 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD

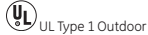



| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Ultra low |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 29672 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 3 | 120 | 67 | 0.58 A | 0.60 | 0.89 | 98 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 66 | 0.26 A | 0.60 | 0.90 | 93 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 50 | 0.21 A | 0.64 | 1.28 | 92 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 49 | 0.42 A | 0.64 | 1.30 | 98 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 61 | 0.53 A | 0.59 | 0.96 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 60 | 0.24 A | 0.59 | 0.98 | 94 | 1.7 | 10 | 60/16 |
| F32T8/MM | 2 | 120 | 45 | 0.04 A | 0.64 | 1.42 | 98 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 45 | 0.18 A | 0.64 | 1.42 | 92 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 57 | 0.49 A | 0.58 | 1.01 | 99 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 56 | 0.22 A | 0.58 | 1.03 | 94 | 1.7 | 10 | 60/16 |
| | 2 | 120 | 42 | 0.35 A | 0.63 | 1.50 | 98 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 42 | 0.17 A | 0.63 | 1.50 | 91 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 120 | 53 | 0.45 A | 0.60 | 1.13 | 98 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 53 | 0.21 A | 0.60 | 1.13 | 92 | 1.7 | 13 | 0/-18 |
| | 2 | 120 | 40 | 0.35 A | 0.64 | 1.60 | 98 | 1.7 | 10 | 0/-18 |
| F25T8 | 2 | 277 | 40 | 0.16 A | 0.64 | 1.60 | 89 | 1.7 | 14 | 0/-18 |

Other compatible lamps: F17T8, F32T8/25W

Safety and performance   Product is compliant with material restriction requirements of RoHS FCC – CLASS A Non-Consumer  
ANSI – C62.41 cUL Listed

29625 – GE-432-120-PS-N

UltraStart® T8 Programmed Start
4 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®

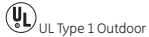



| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 29625 | 29635 | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 4 | 120 | 112 | 0.95 A | 0.89 | 0.79 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 92 | 0.79 A | 0.96 | 1.04 | 99 | 1.7 | 10 | 0/-18 |
| | 4 | 120 | 106 | 0.92 A | 0.87 | 0.82 | 99 | 1.7 | 10 | 60/16 |
| F32T8/MM | 3 | 120 | 87 | 0.75 A | 0.94 | 1.08 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 120 | 96 | 0.83 A | 0.84 | 0.87 | 99 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 120 | 79 | 0.68 A | 0.91 | 1.15 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 120 | 87 | 0.75 A | 0.88 | 1.01 | 99 | 1.7 | 10 | 0/-18 |
| F25T8 | 3 | 120 | 73 | 0.63 A | 0.95 | 1.30 | 99 | 1.7 | 10 | 0/-18 |
| | 4 | 120 | 61 | 0.53 A | 0.89 | 1.45 | 99 | 1.7 | 10 | 50/10 |
| F17T8 | 3 | 120 | 51 | 0.44 A | 0.96 | 1.88 | 99 | 1.7 | 10 | 0/-18 |

Other compatible lamps: F32T8/25W

Safety and performance Product is compliant with material restriction requirements of RoHS   ANSI – C62.41 FCC – CLASS A Non-Consumer  

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Multi-voltage technology handles voltage from 120 to 277V (H and XL series)
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL PS3 – see example on page 11-21 | |
| Case dimensions – Ref Drawing – A – see Page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Length (± 1 in) | |
| White and Black | 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Multi-voltage technology handles voltage from 120 to 277V (H and XL series)
- Parallel lamp operation means system maintenance is easier to manage

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL PS4 – see example on page 11-21 | |
| Case dimensions – Ref Drawing – A – see Page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Length (± 1 in) | |
| White and Black | 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Blue/White | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

96716 – GE432-MVPS-N

UltraStart® T8 Programmed Start

4 F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic - Programmed / Rapid Start |
| Starting Method | Rapid start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 104°F (40°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Inherently Thermally Protected, UL Class P, Universal voltage |

| Electrical characteristics | |
|--------------------------------|--------------|
| Supply Current Frequency (MIN) | 50 Hz/ 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 96716 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 4 | 120 | 114 | 0.97 A | 0.89 | 0.78 | 99 | 1.7 | 10 | 0/-18 |
| | 4 | 277 | 112 | 0.41 A | 0.89 | 0.79 | 97 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 93 | 0.78 A | 0.96 | 1.03 | 98 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 92 | 0.34 A | 0.96 | 1.04 | 95 | 1.7 | 10 | 0/-18 |
| | 4 | 120 | 105 | 0.88 A | 0.86 | 0.81 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 103 | 0.37 A | 0.86 | 0.83 | 97 | 1.7 | 10 | 60/16 |
| F32T8/WM | 3 | 120 | 86 | 0.72 A | 0.94 | 1.09 | 98 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 85 | 0.31 A | 0.94 | 1.10 | 95 | 1.7 | 10 | 60/16 |
| | 4 | 120 | 96 | 0.81 A | 0.83 | 0.86 | 99 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 95 | 0.35 A | 0.83 | 0.87 | 97 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 79 | 0.66 A | 0.92 | 1.16 | 98 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 78 | 0.29 A | 0.92 | 1.17 | 95 | 1.7 | 10 | 60/16 |

Other compatible lamps: F17T8, F25T8, F32T8/25W

Safety and performance Product is compliant with material restriction requirements of RoHS  UL Type 1 Outdoor  UL Type HL ANSI - C62.41 FCC - CLASS A Non-Consumer  UL Class P



71832 – GE432-MVPS-L

UltraStart® T8 Programmed Start

4 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic - Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 104°F (40°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low - PS |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Inherently Thermally Protected, UL Class P, Universal voltage |

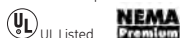
| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency | 50 Hz |
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 71832 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 4 | 120 | 90 | 0.39 A | 0.71 | 0.78 | 1 | 1.7 | 10 | 0/-18 |
| | 4 | 277 | 88 | 0.32 A | 0.71 | 0.80 | 1 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 72 | 0.68 A | 0.58 | 0.81 | 1 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 71 | 0.78 A | 0.58 | 0.82 | 1 | 1.7 | 10 | 0/-18 |
| | 4 | 120 | 85 | 0.71 A | 0.69 | 0.81 | 1 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 83 | 0.30 A | 0.69 | 0.83 | 1 | 1.7 | 10 | 60/16 |
| F32T8/WM | 3 | 120 | 68 | 0.58 A | 0.57 | 0.84 | 1 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 67 | 0.26 A | 0.57 | 0.85 | 1 | 1.7 | 10 | 60/16 |
| | 4 | 120 | 77 | 0.64 A | 0.68 | 0.88 | 1 | 1.7 | 10 | 60/16 |
| | 4 | 277 | 76 | 0.28 A | 0.68 | 0.89 | 1 | 1.7 | 10 | 60/16 |
| | 3 | 120 | 63 | 0.53 A | 0.55 | 0.88 | 1 | 1.7 | 10 | 60/16 |
| | 3 | 277 | 63 | 0.23 A | 0.55 | 0.88 | 1 | 1.7 | 10 | 60/16 |

Other compatible lamps: F17T8, F25T8, F32T8/25W

Safety and performance Product is compliant with material restriction requirements of RoHS  UL Type 1 Outdoor ANSI - C62.41  UL Type HL FCC - CLASS A Non-Consumer  UL Class P



See page E-1 for warranty information.

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Anti-striation circuitry reduces striations with energy saving lamps
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage

Dimensions

Wiring diagram - LFL PS4 - see example on page 11-21

Case dimensions - Ref Drawing - A - see Page 11-22

| Length (L) | 9.5 in (241 mm) |
|--|-----------------|
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| | Length (± 1 in) |
| White and Black | 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Blue/White | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Anti-striation circuitry reduces striations with energy saving lamps
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage

Dimensions

Wiring diagram - LFL PS4 - see example on page 11-21

Case dimensions - Ref Drawing - A - see Page 11-22

| Length (L) | 9.5 in (241 mm) |
|--|-----------------|
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| | Length (± 1 in) |
| White and Black | 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Blue/White | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

74476 – GE-432-MVPS-H (replaces 29678)

UltraStart® T8 Programmed Start
4 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Multi-voltage technology handles voltage from 120 to 277V
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic – Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|------------------------|----------|---------|
| 74476 | 74477 (replaces 29657) | | |

Dimensions

Wiring diagram – LFL PS4 – see example on page 11-21
Case dimensions – Ref Drawing LG – see Page 11-22

| | |
|--|------------------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 2.4 in (61 mm) |
| Height (H) | 1.6 in (40 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.7 in (43 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 3.10 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| | Length (± 1 in) |
| White | 25 in (635 mm) |
| Black | 25 in (635 mm) |
| Red | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Blue | 33 in (838 mm) |
| Blue/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F32T8 | 4 | 120 | 147 | 1.27 A | 1.16 | 0.79 | 99 | 1.7 | 10 | 0/-18 |
| | 4 | 277 | 144 | 0.55 A | 1.16 | 0.81 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 120 | 1.03 A | 1.26 | 1.05 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 120 | 0.45 A | 1.26 | 1.05 | 99 | 1.7 | 10 | 0/-18 |
| | 4 | 120 | 139 | 1.20 A | 1.15 | 0.83 | 99 | 1.7 | 10 | 50/10 |
| | 4 | 277 | 136 | 0.52 A | 1.15 | 0.85 | 99 | 1.7 | 10 | 50/10 |
| F32T8/WM | 3 | 120 | 114 | 0.95 A | 1.24 | 1.08 | 99 | 1.7 | 10 | 50/10 |
| | 3 | 277 | 112 | 0.43 A | 1.24 | 1.11 | 99 | 1.7 | 10 | 50/10 |
| | 4 | 120 | 125 | 1.08 A | 1.12 | 0.90 | 99 | 1.7 | 10 | 50/10 |
| | 4 | 277 | 123 | 0.47 A | 1.12 | 0.91 | 99 | 1.7 | 10 | 50/10 |
| | 3 | 120 | 103 | 0.86 A | 1.21 | 1.17 | 99 | 1.7 | 10 | 50/10 |
| | 3 | 277 | 101 | 0.39 A | 1.21 | 1.20 | 99 | 1.7 | 10 | 50/10 |
| F28T8 | 4 | 120 | 112 | 0.94 A | 1.12 | 1.00 | 99 | 1.7 | 10 | 50/10 |
| | 4 | 277 | 111 | 0.42 A | 1.12 | 1.01 | 99 | 1.7 | 10 | 50/10 |
| | 3 | 120 | 92 | 0.79 A | 1.21 | 1.32 | 99 | 1.7 | 10 | 50/10 |
| | 3 | 277 | 91 | 0.35 A | 1.21 | 1.33 | 99 | 1.7 | 10 | 50/10 |
| | 4 | 120 | 117 | 1.00 A | 1.15 | 0.98 | 99 | 1.7 | 10 | 0/-18 |
| | 4 | 277 | 115 | 0.44 A | 1.15 | 1.00 | 99 | 1.7 | 10 | 0/-18 |
| F32T8/25W | 3 | 120 | 97 | 0.83 A | 1.23 | 1.27 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 96 | 0.37 A | 1.23 | 1.28 | 99 | 1.7 | 10 | 0/-18 |
| | 4 | 120 | 81 | 0.69 A | 1.15 | 1.42 | 99 | 1.7 | 10 | 0/-18 |
| | 4 | 277 | 80 | 0.31 A | 1.15 | 1.44 | 98 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 67 | 0.58 A | 1.23 | 1.84 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 67 | 0.26 A | 1.23 | 1.84 | 99 | 1.7 | 10 | 0/-18 |

Safety and performance

Product is compliant with material restriction requirements of RoHS ANSI – C62.41  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer  UL Class P

cUL Listed  UL Listed 

High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

62721 - GE232PS347-L

UltraStart® T8 Programmed Start

2 or 1 F32T8 347V Low Watt .71 BF UltraStart®

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps
- < 10% THD, > 99% power factor

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low-PS (.71) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, Thermally protected, Universal voltage, TCLP compliant, Auto-restart |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 62721 | | | |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL PS2 – see example on page 11-21 | |
| Case dimensions – Ref Drawing -A – see page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.1 in (29 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| | Length (± 1 in) |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 33 in (838 mm) |
| Red | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F40T8 | 2 | 347 | 36 | 0.11 A | 0.81 | | 95 | 1.7 | 10 | 60/16 | |
| | 2 | 347 | 27 | 0.08 A | 0.83 | | 95 | 1.7 | 12 | 60/16 | |
| F32T8/WM | 1 | 347 | 43 | 0.13 A | 0.71 | | 95 | 1.7 | 10 | 60/16 | |
| | 2 | 347 | 24 | 0.07 A | 0.77 | | 95 | 1.7 | 12 | 60/16 | |
| F32T8/25W | 1 | 347 | 37 | 0.11 A | 0.71 | | 95 | 1.7 | 10 | 60/16 | |
| | 2 | 347 | 29 | 0.09 A | 0.85 | | 95 | 1.7 | 12 | 0/-18 | |
| | 2 | 347 | 25 | 0.08 A | 0.80 | | 95 | 1.7 | 12 | 60/16 | |
| F32T8 | 1 | 347 | 47 | 0.14 A | 0.71 | | 95 | 1.7 | 10 | 0/-18 | |
| | 1 | 347 | 40 | 0.12 A | 0.71 | | 95 | 1.7 | 10 | 60/16 | |
| F25T8/WM | 2 | 347 | 32 | 0.10 A | 0.71 | | 95 | 1.7 | 15 | 60/16 | |
| | 1 | 347 | 21 | 0.07 A | 0.78 | | 90 | 1.7 | 15 | 0/-18 | |
| F25T8 | 2 | 347 | 24 | 0.08 A | 0.85 | | 95 | 1.7 | 12 | 0/-18 | |
| | 1 | 347 | 37 | 0.11 A | 0.72 | | 95 | 1.7 | 10 | 0/-18 | |
| | 2 | 347 | 24 | 0.07 A | 0.71 | | 90 | 1.7 | 12 | 60/16 | |
| F17T8 | 2 | 347 | 18 | 0.06 A | 0.84 | | 95 | 1.7 | 15 | 0/-18 | |
| | 1 | 347 | 17 | 0.06 A | 0.78 | | 90 | 1.7 | 15 | 0/-18 | |
| | 1 | 347 | 27 | 0.08 A | 0.72 | | 95 | 1.7 | 15 | 0/-18 | |

Safety and performance

Product is compliant with material restriction requirements of RoHS ANSI – C62.41  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer  UL Class P

cUL Listed  UL Listed  NEMA Premium  NRCAN

High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

62722 - GE432PS347-L

UltraStart® T8 Programmed Start

4 or 3 F32T8 347V Low Watt .71 BF UltraStart®

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low-PS (.71) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, Thermally protected, Universal voltage, TCLP compliant, Auto-restart |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 62722 | | | |

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps
- < 10% THD, > 99% power factor

| Dimensions | |
|---|-----------------|
| Wiring diagram – LFL PS4 – see example on page 11-21 | |
| Case dimensions – Ref Drawing -A – see page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.1 in (29 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Length (± 1 in) | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 33 in (838 mm) |
| Blue/White | 33 in (838 mm) |
| Red | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F40T8 | 3 | 347 | 90 | 0.27 A | 0.74 | | 95 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 83 | 0.25 A | 0.71 | | 95 | 1.7 | 10 | 60/16 |
| F32T8/WM | 3 | 347 | 69 | 0.21 A | 0.79 | | 95 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 69 | 0.21 A | 0.71 | | 95 | 1.7 | 10 | 60/16 |
| F32T8/25W | 3 | 347 | 58 | 0.17 A | 0.73 | | 95 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 88 | 0.27 A | 0.71 | | 95 | 1.7 | 10 | 0/-18 |
| F32T8 | 3 | 347 | 76 | 0.22 A | 0.79 | | 95 | 1.7 | 10 | 0/-18 |
| | 4 | 347 | 76 | 0.23 A | 0.71 | | 95 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 347 | 63 | 0.19 A | 0.76 | | 95 | 1.7 | 10 | 60/16 |
| | 4 | 347 | 71 | 0.21 A | 0.72 | | 95 | 1.7 | 10 | 0/-18 |
| F25T8 | 3 | 347 | 59 | 0.18 A | 0.78 | | 95 | 1.7 | 10 | 0/-18 |
| | 4 | 347 | 51 | 0.15 A | 0.72 | | 95 | 1.7 | 10 | 0/-18 |
| F17T8 | 3 | 347 | 43 | 0.13 A | 0.78 | | 95 | 1.7 | 10 | 0/-18 |

Safety and performance

Product is compliant with material restriction requirements of RoHS ANSI – C62.41  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer  UL Class P

cUL Listed  UL Listed  NEMA Premium  NRCAN

High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

62723 - GE232PS347-N

UltraStart® T8 Programmed Start

2 or 1 F32T8 347V Normal Light .88 BF UltraStart®

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps
- < 10% THD, > 99% power factor

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, Thermally protected, Universal voltage, TCLP compliant, Auto-restart |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack 62723 | Pallet Pack | DIY Pack | IP Pack |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL PS2 – see example on page 11-21 | |
| Case dimensions – Ref Drawing -A – see page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.1 in (29 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Length (± 1 in) | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 33 in (838 mm) |
| Red | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F40T8 | 1 | 347 | 45 | 0.13 A | 0.99 | | 95 | 1.7 | 10 | 0/-18 | |
| | 2 | 347 | 54 | 0.16 A | 0.88 | | 95 | 1.7 | 10 | 60/16 | |
| F32T8/W/M | 1 | 347 | 34 | 0.10 A | 1.01 | | 95 | 1.7 | 10 | 0/-18 | |
| | 2 | 347 | 46 | 0.14 A | 0.88 | | 95 | 1.7 | 10 | 60/16 | |
| F32T8/25W | 1 | 347 | 29 | 0.09 A | 0.96 | | 95 | 1.7 | 12 | 60/16 | |
| | 2 | 347 | 57 | 0.17 A | 0.88 | | 95 | 1.7 | 10 | 0/-18 | |
| F32T8 | 1 | 347 | 35 | 0.11 A | 1.03 | | 95 | 1.7 | 10 | 60/16 | |
| | 2 | 347 | 50 | 0.15 A | 0.88 | | 95 | 1.7 | 10 | 60/16 | |
| F28T8 | 1 | 347 | 32 | 0.10 A | 0.99 | | 95 | 1.7 | 10 | 60/16 | |
| | 2 | 347 | 39 | 0.12 A | 0.88 | | 95 | 1.7 | 10 | 0/-18 | |
| F25T8/W/M | 1 | 347 | 25 | 0.08 A | 0.99 | | 90 | 1.7 | 12 | 0/-18 | |
| | 2 | 347 | 45 | 0.14 A | 0.90 | | 95 | 1.7 | 10 | 0/-18 | |
| F25T8 | 1 | 347 | 30 | 0.09 A | 1.03 | | 95 | 1.7 | 12 | 60/16 | |
| | 2 | 347 | 29 | 0.09 A | 0.88 | | 95 | 1.7 | 12 | 0/-18 | |
| F17T8/W/M | 1 | 347 | | | | | | | | | |
| | 2 | 347 | 32 | 0.10 A | 0.89 | | 95 | 1.7 | 10 | 0/-18 | |
| F17T8 | 1 | 347 | 22 | 0.07 A | 1.03 | | 95 | 1.7 | 15 | 0/-18 | |

Safety and performance

Product is compliant with material restriction requirements of RoHS ANSI – C62.41  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer  UL Class P

cUL Listed  UL Listed  NEMA Premium  NRCan

High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

62724 - GE332PS347-N

UltraStart® T8 Programmed Start

3 F32T8 347V Normal Light .88 BF UltraStart®

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps
- < 10% THD, > 99% power factor

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, Thermally protected, Universal voltage, TCLP compliant, Auto-restart |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 62724 | | | |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL PS3 – see example on page 11-21 | |
| Case dimensions – Ref Drawing -A – see page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.1 in (29 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Length (± 1 in) | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 33 in (838 mm) |
| Red | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F40T8 | 2 | 347 | 78 | 0.23 A | 0.94 | | 95 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 77 | 0.23 A | 0.88 | | 95 | 1.7 | 10 | 60/16 |
| F32T8/WM | 2 | 347 | 59 | 0.18 A | 0.98 | | 95 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 65 | 0.19 A | 0.88 | | 95 | 1.7 | 10 | 60/16 |
| F32T8/25W | 2 | 347 | 49 | 0.15 A | 0.91 | | 95 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 83 | 0.25 A | 0.88 | | 95 | 1.7 | 10 | 0/-18 |
| F32T8 | 2 | 347 | 63 | 0.19 A | 1.00 | | 95 | 1.7 | 10 | 0/-18 |
| | 3 | 347 | 70 | 0.21 A | 0.88 | | 95 | 1.7 | 10 | 60/16 |
| F28T8 | 2 | 347 | 54 | 0.16 A | 0.95 | | 95 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 65 | 0.19 A | 0.89 | | 95 | 1.7 | 10 | 0/-18 |
| F25T8 | 2 | 347 | 51 | 0.15 A | 0.99 | | 95 | 1.7 | 10 | 0/-18 |
| | 3 | 347 | 46 | 0.14 A | 0.88 | | 95 | 1.7 | 10 | 0/-18 |
| F17T8 | 2 | 347 | 36 | 0.11 A | 0.98 | | 95 | 1.7 | 10 | 0/-18 |

Safety and performance

Product is compliant with material restriction requirements of RoHS ANSI – C62.41  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer  UL Class P

cUL Listed  UL Listed  NEMA Premium  ETL NRCan

High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

62725 - GE432PS347-N

UltraStart® T8 Programmed Start

4 F32T8 347V Normal Light .88 BF UltraStart®

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps
- < 10% THD, > 99% power factor

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, Thermally protected, Universal voltage, TCLP compliant, Auto-restart |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 62725 | | | |

| Dimensions | |
|---|------------------------|
| Wiring diagram – LFL PS4 – see example on page 11-21 | |
| Case dimensions – Ref Drawing -A – see page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.1 in (29 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| | Length (± 1 in) |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 33 in (838 mm) |
| Blue/White | 33 in (838 mm) |
| Red | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|--|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
| F40T8 | 3 | 347 | | 0.31 A | 0.91 | | 95 | 1.7 | 10 | 60/16 | |
| | 4 | 347 | | 0.31 A | 0.88 | | 95 | 1.7 | 10 | 60/16 | |
| F32T8/W/M | 3 | 347 | | 0.25 A | 0.94 | | 95 | 1.7 | 10 | 60/16 | |
| | 4 | 347 | | 0.24 A | 0.88 | | 95 | 1.7 | 10 | 60/16 | |
| F32T8/25W | 3 | 347 | | 0.20 A | 0.89 | | 95 | 1.7 | 10 | 60/16 | |
| | 4 | 347 | | 0.33 A | 0.88 | | 95 | 1.7 | 10 | 0/-18 | |
| F32T8 | 3 | 347 | | 0.26 A | 1.00 | | 95 | 1.7 | 10 | 0/-18 | |
| | 4 | 347 | | 0.27 A | 0.88 | | 95 | 1.7 | 10 | 60/16 | |
| F28T8 | 3 | 347 | | 0.22 A | 0.91 | | 95 | 1.7 | 10 | 60/16 | |
| | 4 | 347 | | 0.25 A | 0.88 | | 95 | 1.7 | 10 | 0/-18 | |
| F25T8 | 3 | 347 | | 0.21 A | 0.95 | | 95 | 1.7 | 10 | 0/-18 | |
| | 4 | 347 | | 0.18 A | 0.88 | | 95 | 1.7 | 10 | 0/-18 | |
| F17T8 | 3 | 347 | | 0.15 A | 0.95 | | 95 | 1.7 | 12 | 0/-18 | |

Safety and performance

Product is compliant with material restriction requirements of RoHS ANSI – C62.41  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer  UL Class P

cUL Listed  UL Listed  NEMA Premium  NRCAN

High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

62726 - GE232PS347-H

UltraStart® T8 Programmed Start

2 or 1 F32T8 347V High Light 1.18 BF UltraStart®

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps
- < 10% THD, > 99% power factor

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High (1.18) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, Thermally protected, Universal voltage, TCLP compliant, Auto-restart |

| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 50 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 62726 | | | |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL PS2 – see example on page 11-21 | |
| Case dimensions – Ref Drawing -A – see page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.1 in (29 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 2.4 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Length (± 1 in) | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 33 in (838 mm) |
| Red | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F40T8 | 1 | 347 | 57 | 0.17 A | 1.28 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 61 | 0.18 A | 0.85 | | 95 | 1.7 | 10 | 60/16 |
| F36T8 | 1 | 347 | 39 | 0.12 A | 0.98 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 69 | 0.21 A | 1.16 | | 95 | 1.7 | 10 | 60/16 |
| F32T8/WM | 1 | 347 | 43 | 0.13 A | 1.32 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 58 | 0.17 A | 1.09 | | 95 | 1.7 | 10 | 60/16 |
| F32T8/25W | 1 | 347 | 37 | 0.11 A | 1.27 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 74 | 0.22 A | 1.18 | | 95 | 1.7 | 10 | 0/-18 |
| F32T8 | 1 | 347 | 45 | 0.14 A | 1.33 | | 95 | 1.7 | 10 | 0/-18 |
| | 2 | 347 | 62 | 0.19 A | 1.13 | | 95 | 1.7 | 10 | 60/16 |
| F28T8 | 1 | 347 | 40 | 0.12 A | 1.30 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 59 | 0.17 A | 1.17 | | 95 | 1.7 | 10 | 0/-18 |
| F25T8 | 1 | 347 | 38 | 0.11 A | 1.32 | | 95 | 1.7 | 10 | 0/-18 |
| | 2 | 347 | 62 | 0.13 A | 1.16 | | 95 | 1.7 | 10 | 0/-18 |
| F17T8 | 1 | 347 | 28 | 0.08 A | 1.31 | | 95 | 1.7 | 12 | 0/-18 |

Safety and performance

Product is compliant with material restriction requirements of RoHS ANSI – C62.41  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer  UL Class P

cUL Listed  UL Listed  NEMA Premium  ETL NRCan

High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

62727 - GE332PS347-H

UltraStart® T8 Programmed Start

3 F32T8 347V High Light 1.18 BF UltraStart®

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps
- < 10% THD, > 99% power factor

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High (1.18) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, Thermally protected, Universal voltage, TCLP compliant, Auto-restart |

| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 50 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack 62727 | Pallet Pack | DIY Pack | IP Pack |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL PS3 – see example on page 11-21 | |
| Case dimensions – Ref Drawing -A – see page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.1 in (29 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 2.4 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Length (± 1 in) | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 33 in (838 mm) |
| Red | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F40T8 | 2 | 347 | 102 | 0.30 A | 1.23 | | 95 | 1.7 | 10 | 60/16 |
| | 3 | 347 | 68 | 0.20 A | 0.94 | | 95 | 1.7 | 10 | 60/16 |
| F36T8 | 3 | 347 | 89 | 0.26 A | 0.85 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 77 | 0.23 A | 1.27 | | 95 | 1.7 | 10 | 60/16 |
| F32T8/WM | 3 | 347 | 102 | 0.30 A | 1.16 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 63 | 0.19 A | 1.21 | | 95 | 1.7 | 10 | 60/16 |
| F32T8/25W | 3 | 347 | 83 | 0.25 A | 1.10 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 83 | 0.25 A | 1.28 | | 95 | 1.7 | 10 | 0/-18 |
| F32T8 | 3 | 347 | 110 | 0.33 A | 1.18 | | 95 | 1.7 | 10 | 0/-18 |
| | 2 | 347 | 71 | 0.21 A | 1.25 | | 95 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 347 | 94 | 0.28 A | 1.13 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 66 | 0.19 A | 1.27 | | 95 | 1.7 | 10 | 0/-18 |
| F25T8 | 3 | 347 | 86 | 0.25 A | 1.17 | | 95 | 1.7 | 10 | 0/-18 |
| | 2 | 347 | 46 | 0.14 A | 1.26 | | 95 | 1.7 | 10 | 0/-18 |
| F17T8 | 3 | 347 | 61 | 0.18 A | 1.16 | | 95 | 1.7 | 10 | 0/-18 |

Safety and performance

Product is compliant with material restriction requirements of RoHS ANSI – C62.41  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer  UL Class P

cUL Listed  UL Listed  NEMA Premium  NRCan

High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

UltraStart® T8 120–277V Programmed Start

T8 Programmed Start Ballasts For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps

63041 - GE332PS347-L

UltraStart® T8 Programmed Start

2 or 1 F32T8 347V High Light 1.18 BF UltraStart®

- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Extends lamp life in frequently switched applications (> 100,000 on/off cycles)
- Starting time visually the same as instant start
- Parallel lamp operation means system maintenance is easier to manage
- Anti-striation circuitry reduces striations with energy saving lamps
- < 10% THD, > 99% power factor

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Low-PS (.71) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, Thermally protected, Universal voltage, TCLP compliant, Auto-restart |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 63041 | | | |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL PS3 – see example on page 11-21 | |
| Case dimensions – Ref Drawing -A – see page 11-22 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.1 in (29 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Length (± 1 in) | |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Blue | 33 in (838 mm) |
| Red | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F40T8 | 2 | 347 | 66 | 0.19 A | 0.77 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 50 | 0.15 A | 0.79 | | 95 | 1.7 | 10 | 60/16 |
| F32T8/WM | 3 | 347 | 66 | 0.20 A | 0.71 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 43 | 0.13 A | 0.75 | | 95 | 1.7 | 10 | 60/16 |
| F32T8/25W | 3 | 347 | 56 | 0.17 A | 0.71 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 52 | 0.16 A | 0.81 | | 95 | 1.7 | 10 | 0/-18 |
| F32T8 | 3 | 347 | 70 | 0.21 A | 0.71 | | 95 | 1.7 | 10 | 0/-18 |
| | 2 | 347 | 46 | 0.14 A | 0.77 | | 95 | 1.7 | 10 | 60/16 |
| F28T8 | 3 | 347 | 60 | 0.18 A | 0.71 | | 95 | 1.7 | 10 | 60/16 |
| | 2 | 347 | 43 | 0.13 A | 0.81 | | 95 | 1.7 | 10 | 0/-18 |
| F25T8 | 3 | 347 | 55 | 0.16 A | 0.73 | | 95 | 1.7 | 10 | 0/-18 |
| | 2 | 347 | 31 | 0.10 A | 0.81 | | 95 | 1.7 | 12 | 0/-18 |
| F17T8 | 3 | 347 | 40 | 0.12 A | 0.73 | | 95 | 1.7 | 10 | 0/-18 |

Safety and performance

Product is compliant with material restriction requirements of RoHS ANSI – C62.41  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer  UL Class P

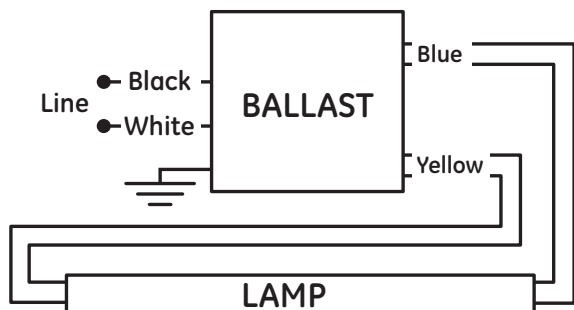
cUL Listed  UL Listed  NEMA Premium  ETL NRCan

High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

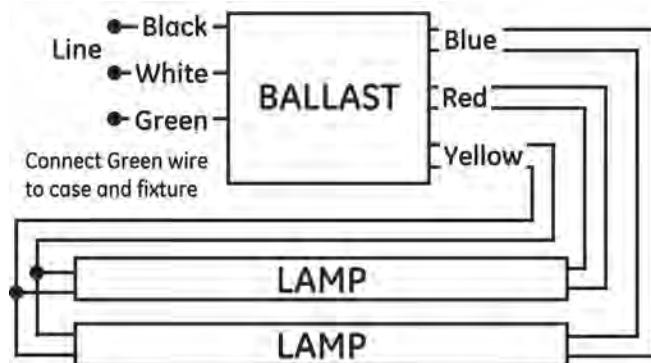
Wiring Diagrams

T8 Programmed Start Ballasts

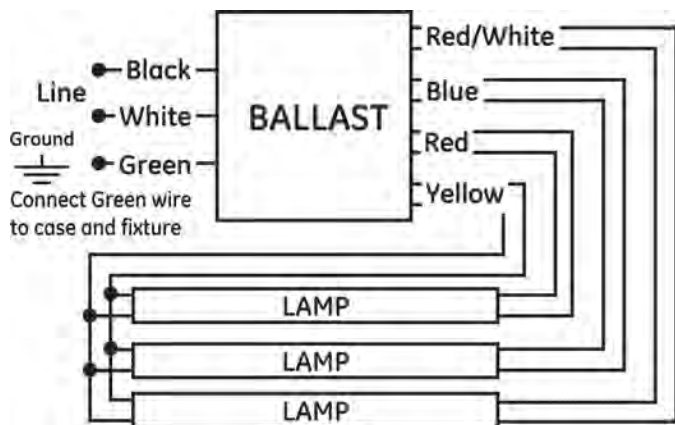
LFL PS1



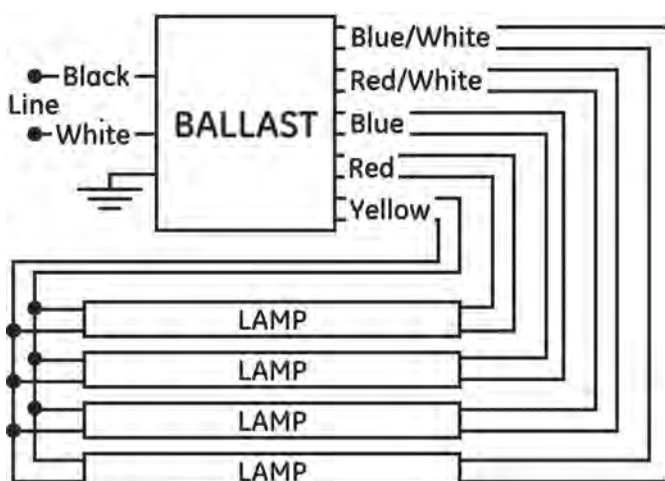
LFL PS2



LFL PS3



LFL PS4



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

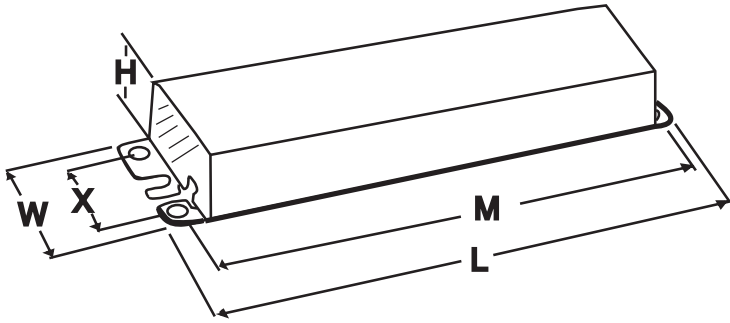
Compact Fluorescent

HID Electronic & Electromagnetic

Case Dimensions

T8 Programmed Start Ballasts

-A



LG

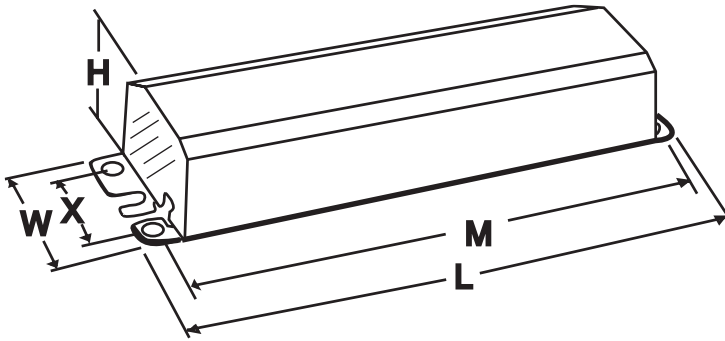


Table of Contents

T8/T5 Dimming Ballasts

Dimming Applications 12-2

UltraStart® T8 Step Dimming Program
Start Dimming Ballast..... 12-5

UltraMax® Bi-Level Dimming and Load Shed
Dimming Instant Start 120-277V High Efficiency 12-8

UltraStart® T8 100-3% 0-10V
120-277V Programmed Start Dimming.....12-16

UltraStart® T5
120-277V Step Dimming Program Start Ballast.....12-24

Wiring Diagrams.....12-26

Case Dimensions12-29

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic



Dimming Applications

UltraStart T8 Program Start Bi-level Switching Ballast 100% to 30% Light Output

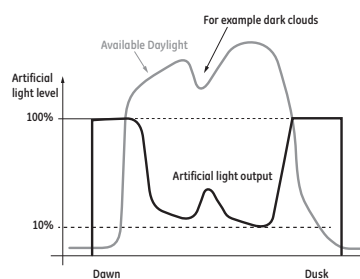
As ballast efficiency increases, controls and dimming ballasts will deliver the next level of energy savings. Proper installation and set up is needed to ensure the system will deliver the energy savings while maximizing lamp life. GE dimming ballasts are available for load shed as well as deep dimming operation. Dimming applications generally use full wattage lamps, but GE UltraMax® 28W lamps are also suitable for use on GE dimming ballasts. The ballast must be mounted in the same fixture as the lamps, no tandem or remote operation is permitted for programmed start dimming ballasts.

In order to achieve maximum lamp performance, the lamps should be seasoned at full power for 12 hours per NEMA guidelines prior to dimming operation. Ballasts for programmed start dimming must use rapid start type lampholders that accommodate two separate wires that connect one to each lamp pin. Shunted or shorted lampholders cannot be used with programmed start dimming systems. Load shed ballasts are instant start and can be used with shunted lampholders. The load shed ballast can be used in some tandem fixture applications with total lead length determined by the specific application.

GE programmed start dimming ballasts are compatible with 0-10V Class 1 or Class 2 wiring systems rated as ANSI Type 1. GE load shed ballasts feature step or variable 0-10V control. The step options include Class 1 compatible control and dual input leads for double switched applications such as classrooms.

Key Fluorescent Dimming Strategies

- Daylight harvesting.
Ideal for spaces occupied by users performing important stationary tasks, dimming enables the lighting system to reduce light output in response to daylight availability, saving energy.
- Adaptive compensation.
This strategy involves reducing light levels at night in spaces with non-critical tasks based on research that people prefer and need less light at night than during daytime.
- Demand response.
In this strategy, the control system responds to a signal from the local utility to reduce light levels during a grid emergency. The owner receives financial incentives such as special rates in return.



UltraStart® T8 100-3% Dimming Ballast in Normal and High Ballast Factor

GE UltraStart® 0-10V T8 electronic dimming fluorescent ballast offers the most efficient dimming system on the market today. They are available in 1-4 lamp normal ballast factor or 0.88 light output and 2-4 lamp high ballast factor or 1.18 light output for applications where more light is needed. UltraStart® dimming ballasts are multi-volt and operate in 120-277 voltage range.

Today's fixed light fluorescent systems are now 93% efficient and the next stage in additional energy savings is to either shut lights off with occupancy sensors or efficiently dim the lights with GE UltraStart® 0-10V dimming ballast. This ballast can be effectively incorporated in popular lighting energy reduction strategies such as daylight harvesting, load shedding and energy management systems to allow for a more affordable and flexible controllable lighting system.

UltraStart® T8 Program Start Bi-level Switching Ballast 100% to 30% Light Output

The new UltraStart® T8 hi-efficiency dimming ballast family dims from 100% to 30% light output. The ballast in the family operates at normal .88 ballast factor and low .78 ballast factors when used at 100% light output. We offer a 1- and 2-lamp ballast at normal light output, and 2-lamp ballast at low light output. The ballasts are designed to meet California Energy Efficiency Standards (Title 24) and ASRAE 2010 requirements for multi-level lighting. UltraStart® T8 Bi-level switching ballast reduce energy by over 50% when light is not needed and provides architectural dimming at 30% light output. The 1-lamp ballast is ideal for hallway and stairwell fixture applications and the 2-lamp L and N ballast are excellent applications for Office, School and Hospital patient rooms.

The Bi-level UltraStart® ballast is easy and inexpensive to install:

- The ballast can be switched manually by using 2 switch legs: the first switches on and the second switches off @ 30% light and both switches on for 100% light.
- Operates with a line voltage motion sensor when the space is not occupied
- Two black leads control the light level. Connection of both black leads to hot will result in 100% light. Connect 1 black lead to hot and dim to 30% light level.
- Can be switched between 100% and 30% continuously without reducing rated lamp life

UltraStart® T5 Program Start Step Dimming Ballast 100% to 35% Light Output:

Now available for F28T5 and F24T5HO lamps; Provides a simple solution to meet new California Title 24 reduced power requirements for locations that include corridors, stairwells, warehouses, classrooms, libraries, and parking garages.

0-10V Dimming Load Shed Instant Start Ballast

The 0-10V Dimming Load Shed Instant Start ballast is the second dimming ballast option from GE and can dim at any level between a high 1.18 ballast factor or 100% light to a low .71 ballast factor @ 60%.

It is also available in 2, 3, 4 and 6 lamp options.

Low voltage wiring is required to connect the ballast to the controller. A common low voltage wiring type is stranded- copper twisted pair 18AWG. Low voltage wiring is considered Class 2 and not recommended for placement in the same conduit as Class 1 wiring, which is the power, ground and neutral lines. Most codes allow Class 2 wiring to be run without conduit and junction boxes.

The user can save even more energy with this ballast because it is also compatible and warranted with F32/25, F28 and F32/WM energy efficient 4 ft T8 lamps. The ballast includes GE Patented anti-striation control capacitor that will prevent striations that are common for these lamps.

0-10V Dimming Load Shed Features:

- Operates using 0-10 VDC analog control dimmer and wiring – the most popular and cost efficient protocol
- Uses 4 wires: (hot and neutral) and two control wires (purple and gray) to control the voltage signal to the ballast. When the voltage is 10 VDC, then the lamps will be at full light output. As the voltage decreases, the ballast decreases light output. When the control voltage is 0 VDC, then the ballast will generate 60% light output.
- Compatible with 0-10V controllers that meet ANSI specifications

In addition to the outstanding operating efficiencies, these ballast are designed to operate in hot conditions. They are UL rated for operation in ambient temperatures of 55°C or 131°F, and feature UL Type CC Anti-Arc guard protection to prevent arcing if there is a bad or broken socket.

Both ballast are compliant with UL1598, which requires new and retrofitted fixtures to have ballasts with UL Type CC Anti Arc guard or special circle I sockets. Like all GE Electronic ballast, product is compliant with material restriction requirements of RoHS. The ballast operates utilizing 0-10 VDC analog control dimmer and wiring. This is the most popular and cost efficient protocol. The ballast uses 4 wires: (hot and neutral) and two control wires (purple and gray) to control the voltage signal to the ballast. When the voltage is 10 VDC then the lamp/ballast will be at full light output. As the voltage decreases the ballast decreases light out put. Low voltage wiring is required to connect the ballast to the controller. A common low voltage wiring type is stranded- copper twisted pair 18AWG. Low voltage wiring is considered Class 2 and not recommended for placement in the same conduit as Class 1 wiring, which is the power, ground and neutral lines. Most codes allow Class 2 wiring to be run without conduit and junction boxes. GE UltraStart® T8 dimming ballast is compatible with 0-10V controllers that meet ANSI specifications

GE UltraStart® 0-10V dimming ballast use less watts than other dimming ballast on the market today. Other dimming ballast manufacturers use more energy by continuously heating the lamps cathodes to maintain light. This is old technology. GE designed UltraStart® dimming ballast turn off the heat to the lamp cathodes after starting the lamp and keeps the heat off until dimmed to a 0.71 ballast factor. This saves watts through this range.

The Continuous Cathode cut-out technology allows for the essentially the same efficiency at 100% light output as our UltraMax® instant start and UltraStart® program start ballast. The ballast

is also in compliance with a new proposed standard from NEMA (National electrical manufacturers association) called NEMA-LL-9. This standard calls for cathode heating specifications on dimming levels from 35% light output to 1%. By maintaining these heating standards at lower dimming levels, we can assure the user of optimal lamp performance with minimal end blackening and full program start rated lamp warranties.

The new dimming ballast save money on maintenance cost because they operate in parallel. When a lamp fails in a multiple lamp fixture powered by GE's dimming ballast, the remaining lamps stay lit. The maintenance staff only needs to replace the failed lamp. In all other manufacturer's dimming ballast, if one lamp fails then the entire fixture will fail. The maintenance staff will typically replace all the lamps because they cannot identify the failed lamp.

Instant Start Bi-Level Switching Ballast

The new Instant Start Bi-Level Switching ballast operates at a high 1.18 ballast factor at 100% light output and can switch lamps to a low .71 ballast factor or 60% light output. The ballast is available in 2, 3, 4 and a 6-lamp configuration and is designed to reduce light levels within the fixture when maximum light levels are not needed.

The T8 UltraMax® 6-lamp Bi-level ballast has achieved 95% efficiency, setting new standards for ballast efficiency. The 4 and 6 lamp Bi-level ballast are perfect options for popular hi-bay fixtures and applications. Fixtures can dim when the space is not in use and lighted areas are maintained for safety and convenience. The 2 and 3 lamp Bi-level ballast are perfect for reducing lamps in a retrofitted fixture with the option of dimming the fixture when the light is not needed.

The user can save even more energy because the new ballast is compatible and warranted with F32/25, F28 and F32/WM energy efficient 4 ft T8 lamps. The ballast includes GE Patented anti-striation control capacitor that will prevent striations that are common for these lamps. The Bi-level switching ballast is the most efficient and easy to commission dimming option on the market today.

Bi-Level Switching Features:

- Can be operated manually with 2 switch legs: 1 switch on / 2 switch off @ 60% light and both switches on @ 100% light.
- Operates with a motion sensor and switch to the 60% light level when the space is not occupied
- Two black hot leads to control the light level. Connection of either black lead to hot will give 60% light level. Connection of both black leads to hot will result in 100% light level.
- Can be switched between 100% and 60% continuously without reducing rated lamp life.

UltraMax® Bi-Level (S60) Dimming and Load Shed (V60) Dimming

These extremely high efficiency multi-volt (120-277V) electronic ballasts offer the benefits of a low cost instant start design but the flexibility to dim from 100% to 60% or load shed dim with a 0-10V

controller anywhere between 100% and 60%. With F32T8 lamps there is a direct 40% energy reduction when dimming from 100% to 60% light level reduction. Lamp life is not impacted by dimming from high to low. For applications with more than 5 starts per day, a programmed start (PS) or PS dimming ballast is recommended.

GE Dimming Ballasts and NEMA LL-9

NEMA LL-9 is the first coordinated guidance on achieving industry lamp and ballast compatibility with T8 dimming systems and our UltraStart® T8 0-10V full range dimming ballasts are fully compliant. Parallel lamp operation ensures that each lamp is treated properly and within LL-9 specifications with consistent lamp-to-lamp results. Series wired dimming ballasts result in uneven cathode heating and inconsistent lamp to lamp performance and life. Using NEMA LL-9 compliant ballasts means adhering to an open standard that enables you to use different lamp and ballast manufacturers and still know that you will have a reliable system. The entire GE Dimming Ballast offering is NEMA LL-9 compliant. Demand it in your facility.

It is worth noting that when installing new fixtures with dimming capability or relamping with new lamps that GE recommends seasoning the lamps overnight at high ballast factor, or full light output, per NEMA guidelines.

Instant Start vs. Rapid Start Sockets

When using programmed start or dimming ballasts in fixtures, sockets must be 2-pin rapid start type. Fixtures with T8 instant start ballasts must use jumpered rapid start sockets or shunted lamp holders (internal to the lamp holder) that bridge the lamp bi-pins together into one contact on each side of the lamp. If retrofitting from a instant start ballast fixture with shunted sockets to a dimming or programmed start ballast, rapid start type sockets must be used to properly start lamps and maintain rated lamp life.

UltraStart® T8 Step Dimming Program Start Dimming Ballast

T8 Dimming Ballasts

68966-GE132-MVPS-N-S30

Ultrastart® Bi-level Dimming

Program Start Bi-level Dimming

1 F32T8 120-277V "N".88 BF UltraStart® 100/30% Bi-level Switching

- UL Type CC Rating provides protection against arcing in electrical devices
- Bi-level Switching 100 to 30%
- Program Start Bi-level Dimming
- Anti-striation Control for better light quality, with no striations
- 2 or 1 F32T8 120-277V "N".88 BF UltraStart® 100/30% Bi-level Switching
- UL 55C (131F) Ambient rating - High Temperature Protection Circuit
- Multi-Volt Technology handles voltage from 120-277
- Parallel Lamp operation

General characteristics

| | |
|-----------------------------|--|
| Ballast Type | Electronic-Dimming |
| Dimming Type | Step Dimming |
| Starting Method | Program Start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation +/- | 10% |
| Ambient Temperature (Max) | 55° C (131° F) |
| Case Temperature (Max) | 70° C (158° F) |
| Ballast Factor | .88 to .25 |
| Power Factor Correction | Active |
| Sound Rating | A |
| Enclosure Type | Metal |
| Additional Info | No PCB's Anti-striation control, Universal voltage inherent thermal protection |

Dimensions

Wiring diagram - LFL - 1N S30 - see example on Page 12-27

Case dimensions - Ref Drawing - A - see Page 12-29

| | |
|--|------------------|
| Length (L) | 9.5 in (241mm) |
| Width (W) | 1.7 in (43mm) |
| Height (H) | 1.2 in (31mm) |
| Mounting dimensions | |
| Mount Length | 8.9 in (226mm) |
| Mount Width | 1.18 in (30mm) |
| Mount Slots (MS) | .3 in (8mm) |
| Weight | 1.47 |
| Exit Type | Side |
| Remote Mounting Distance to lamp (F32T8) | 8 Ft |
| Remote Mounting Wire gage | 18 AWG |
| Lead lengths | |
| Black | 25.0 in (635mm) |
| Blue | 33.0 in (864mm) |
| Red | 33.0 in (864mm) |
| White | 25.0 in (635mm) |
| Yellow | 47.0 in (1194mm) |

Electrical characteristics

| | |
|--------------------------------|----------|
| Supply Current Frequency (MIN) | 50/60 Hz |
|--------------------------------|----------|

Order information

| | | | |
|---------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 68966 | | | |

Specifications by lamp and wattage

| Type | Lamps | # | Light Output | Input Watts | | UL Nominal line Amps | | Power Factor | | Ballast Factor | Harmonic Total | | Crest Factor | Min Starting Temp |
|-----------|-------|------|--------------|-------------|------|----------------------|------|--------------|------|----------------|----------------|------|--------------|-------------------|
| | | | | 120V | 277V | 120V | 277V | 120V | 277V | | 120V | 277V | | |
| F32T8/U | 1 | 100% | 30 | 29 | 0.26 | 0.12 | 0.99 | 0.94 | 0.88 | 5% | 10% | <1.7 | 0F | |
| | | 30% | 12 | 13 | 0.11 | 0.06 | 0.99 | 0.93 | 0.25 | 10% | 20% | <1.7 | 32F | |
| F32T8/WM | 1 | 100% | 28 | 28 | 0.25 | 0.11 | 0.99 | 0.93 | 0.88 | 5% | 10% | <1.7 | 32F | |
| | | 30% | 12 | 13 | 0.11 | 0.06 | 0.99 | 0.83 | 0.18 | 10% | 21% | <1.7 | 32F | |
| F28T8 | 1 | 100% | 25 | 26 | 0.22 | 0.10 | 0.99 | 0.92 | .87 | 5% | 11% | <1.7 | 32F | |
| | | 30% | 12 | 13 | 0.11 | 0.06 | 0.99 | 0.83 | .22 | 10% | 21% | <1.7 | 32F | |
| F32T8/25W | 1 | 100% | 25 | 24 | 0.22 | 0.10 | 0.99 | 0.91 | 0.84 | 5% | 11% | <1.7 | 32F | |
| | | 30% | 12 | 13 | 0.11 | 0.06 | 0.99 | 0.83 | 0.23 | 10% | 21% | <1.7 | 32F | |
| F25T8 | 1 | 100% | 25 | 24 | 0.21 | 0.10 | 0.99 | 0.92 | 0.9 | 5% | 11% | <1.7 | 0F | |
| | | 30% | 9 | 10 | 0.08 | 0.05 | 0.98 | 0.77 | 0.17 | 10% | 25% | <1.7 | 32F | |
| F17T8 | 1 | 100% | 18 | 18 | 0.16 | 0.08 | 0.99 | 0.87 | .95 | 10% | 14% | <1.7 | 0F | |
| | | 30% | 10 | 10 | 0.09 | 0.05 | 0.98 | 0.78 | .21 | 10% | 25% | <1.7 | 32F | |
| F15T8 | 1 | 100% | 15 | 15 | 0.13 | 0.07 | 0.99 | 0.84 | .92 | 10% | 17% | <1.7 | 0F | |
| | | 30% | 7 | 8 | 0.06 | 0.04 | 0.97 | 0.68 | .38 | 12% | 32% | <1.7 | 32F | |
| F36T8 | 1 | 100% | 25 | 25 | 0.22 | 0.10 | 0.99 | 0.92 | .88 | 5% | 11% | <1.7 | 32F | |
| | | 30% | 14 | 13 | 0.11 | 0.06 | 0.99 | 0.94 | .18 | 10% | 20% | <1.7 | 32F | |

Safety and performance



UL Type 1 Outdoor



UL Type HL ANSI - C82.11 Cons 2002, ANSI - C62.41 - 1991

Product is compliant with material restriction requirements of RoHS

FCC - Part 18 (Class A) for EMI and RFI Non-Consumer Limits cUL Listed



UL Type CC High Temperature Rated: Suitable for high temperature applications

70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty



UltraStart® T8 Step Dimming Program Start Dimming Ballast

T8 Dimming Ballasts

68968-GE232-MVPS-L-S30

Ultrastart® Bi-level Dimming Program Start Bi-level Dimming

2 or 1 F32T8 120-277V "L" .78 BF UltraStart® 100/30% Bi-level Switching

- UL Type CC Rating provides protection against arcing in electrical devices
- Bi-level Switching 100 to 30%
- Anti-striation Control for better light quality , with no striations
- UL 55C (131F) Ambient rating - High Temperature Protection Circuit
- Multi-Volt Technology handles voltage from 120-277
- Parallel Lamp operation

| General characteristics | |
|-----------------------------|--|
| Ballast Type | Electronic-Dimming |
| Dimming Type | Step Dimming |
| Starting Method | Program Start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation +/- | 10% |
| Ambient Temperature (Max) | 55° C (131° F) |
| Case Temperature (Max) | 70° C (158° F) |
| Ballast Factor | .78 to .20 |
| Power Factor Correction | Active |
| Sound Rating | A |
| Enclosure Type | Metal |
| Additional Info | No PCB's Anti-striation control, Universal voltage inherent thermal protection |

| Electrical characteristics | |
|--------------------------------|----------|
| Supply Current Frequency (MIN) | 50/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 68968 | | | |

| Dimensions | |
|---|-------------------|
| Wiring diagram - LFL-2N/L S30 - see example on Page 12-27 | |
| Case dimensions - Ref Drawing - A - see Page 12-29 | |
| Length (L) | 9.5 in (241mm) |
| Width (W) | 1.7 in (43mm) |
| Height (H) | 1.2 in (31mm) |
| Mounting dimensions | |
| Mount Length | 8.9 in (226mm) |
| Mount Width | 1.18 in (30mm) |
| Mount Slots (MS) | .3 in (8mm) |
| Weight | 1.47 |
| Exit Type | Side |
| Remote Mounting Distance to lamp (F32T8) | 8 Ft |
| Remote Mounting Wire gage | 18 AWG |
| Lead lengths | |
| Black | 25.0 in (635mm) |
| Blue | 33.0 in (864mm) |
| Red | 33.0 in (864mm) |
| White | 25.0 in (635mm) |
| Yellow | 47.0 in (1194mm) |

| Specifications by lamp and wattage | | | | | | | | | | | | | |
|------------------------------------|---------|--------------|-------------|------|----------------------|------|--------------|------|----------------|----------------|------|--------------|-------------------|
| Type | Lamps # | Light Output | Input Watts | | UL Nominal line Amps | | Power Factor | | Ballast Factor | Harmonic Total | | Crest Factor | Min Starting Temp |
| | | | 120V | 277V | 120V | 277V | 120V | 277V | | 120V | 277V | | |
| F32T8/U | 2 | 100% | 52 | 51 | 0.46 | 0.20 | 1.00 | 0.97 | 0.78 | 5% | 10% | <1.7 | 0F |
| | 2 | 30% | 19 | 20 | 0.11 | 0.08 | 0.99 | 0.88 | 0.2 | 10% | 19% | <1.7 | 32F |
| | 1 | 100% | 36 | 36 | 0.32 | 0.14 | 1.00 | 0.94 | 0.96 | 5% | 10% | <1.7 | 0F |
| F32T8/WM | 1 | 30% | 15 | 16 | 0.13 | 0.07 | 0.99 | 0.84 | 0.29 | 10% | 23% | <1.7 | 32F |
| | 2 | 100% | 51 | 50 | 0.44 | 0.19 | 1.00 | 0.97 | 0.78 | 5% | 5% | <1.7 | 32F |
| | 2 | 30% | 19 | 20 | 0.17 | 0.08 | 0.99 | 0.88 | 0.18 | 10% | 19% | <1.7 | 32F |
| F28T8 | 1 | 100% | 34 | 33 | 0.29 | 0.13 | 1.00 | 0.94 | 0.96 | 10% | 11% | <1.7 | 32F |
| | 1 | 30% | 15 | 16 | 0.13 | 0.07 | 0.99 | 0.84 | 0.29 | 10% | 23% | <1.7 | 32F |
| | 2 | 100% | 47 | 47 | 0.42 | 0.18 | 1.00 | 0.96 | 0.8 | 5% | 10% | <1.7 | 32F |
| F32T8/25W | 2 | 30% | 18 | 19 | 0.16 | 0.08 | 0.99 | 0.87 | .18 | 10% | 20% | <1.7 | 32F |
| | 1 | 100% | 32 | 32 | 0.28 | 0.13 | 1.00 | 0.93 | .98 | 5% | 12% | <1.7 | 32F |
| | 1 | 30% | 14 | 15 | 0.13 | 0.07 | 0.99 | 0.83 | .27 | 10% | 24% | <1.7 | 32F |
| F25T8 | 2 | 100% | 45 | 44 | 0.39 | 0.17 | 1.00 | 0.96 | .77 | 5% | 10% | <1.7 | 32F |
| | 2 | 30% | 19 | 19 | 0.16 | 0.08 | 0.99 | 0.88 | 0.23 | 10% | 20% | <1.7 | 32F |
| | 1 | 100% | 29 | 30 | 0.26 | 0.12 | 1.00 | 0.92 | 0.94 | 10% | 12% | <1.7 | 32F |
| F17T8 | 1 | 30% | 14 | 15 | 0.13 | 0.07 | 0.99 | 0.83 | 0.31 | 10% | 24% | <1.7 | 32F |
| | 2 | 100% | 43 | 42 | 0.38 | 0.16 | 1.00 | 0.96 | 0.82 | 5% | 10% | <1.7 | 0F |
| | 2 | 30% | 18 | 18 | 0.15 | 0.08 | 0.99 | 0.87 | 0.11 | 10% | 11% | <1.7 | 32F |
| F15T8 | 1 | 100% | 30 | 29 | 0.25 | 0.12 | 1.00 | 0.92 | 1.01 | 10% | 13% | <1.7 | 0F |
| | 1 | 30% | 15 | 16 | 0.13 | 0.07 | 0.99 | 0.84 | 0.22 | 10% | 23% | <1.7 | 32F |
| | 2 | 100% | 32 | 32 | 0.28 | 0.13 | 1.00 | 0.93 | .84 | 10% | 12% | <1.7 | 0F |
| F36T8 | 2 | 30% | 15 | 15 | 0.13 | 0.07 | 0.99 | 0.84 | .15 | 10% | 23% | <1.7 | 32F |
| | 1 | 100% | 22 | 23 | 0.20 | 0.10 | 0.99 | 0.89 | 1.02 | 10% | 16% | <1.7 | 0F |
| | 1 | 30% | 12 | 13 | 0.11 | 0.06 | 0.98 | 0.79 | .21 | 11% | 28% | <1.7 | 32F |
| F40T8 | 2 | 100% | 26 | 27 | 0.23 | 0.11 | 1.00 | 0.91 | .82 | 10% | 14% | <1.7 | 0F |
| | 2 | 30% | 12 | 12 | 0.10 | 0.06 | 0.98 | 0.77 | .32 | 12% | 29% | <1.7 | 32F |
| | 1 | 100% | 19 | 19 | 0.16 | 0.08 | 0.99 | 0.85 | 1.02 | 10% | 19% | <1.7 | 0F |
| F36T8 | 1 | 30% | 10 | 10 | 0.09 | 0.05 | 0.97 | 0.73 | .42 | 14% | 32% | <1.7 | 32F |
| | 2 | 100% | 46 | 45 | 0.40 | 0.17 | 1.00 | 0.96 | .78 | 5% | 10% | <1.7 | 32F |
| | 2 | 30% | 19 | 19 | 0.17 | 0.08 | 0.99 | 0.88 | .18 | 10% | 19% | <1.7 | 32F |
| F40T8 | 1 | 100% | 31 | 30 | 0.27 | 0.12 | 1.00 | 0.93 | .96 | 10% | 12% | <1.7 | 32F |
| | 1 | 30% | 14 | 15 | 0.13 | 0.07 | 0.99 | 0.83 | .29 | 10% | 24% | <1.7 | 32F |
| | 1 | 100% | 40 | 40 | 0.35 | 0.16 | 1.00 | 0.95 | .93 | 5% | 10% | <1.7 | 32F |
| F40T8 | 1 | 30% | 17 | 19 | 0.15 | 0.08 | 0.99 | 0.87 | .27 | 10% | 20% | <1.7 | 32F |

Safety and performance

 UL Type 1 Outdoor  UL Type HL ANSI - C82.11 Cons 2002, ANSI - C62.41 - 1991 Product is compliant with material restriction requirements of RoHS

FCC - Part 18 (Class A) for EMI and RFI Non-Consumer Limits  UL Type CC High Temperature Rated: Suitable for high temperature applications

70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty



UltraStart® T8 Step Dimming Program Start Dimming Ballast

T8 Dimming Ballasts

68967-GE232-MVPS-N-S30

Ultrastart® Bi-level Dimming

Program Start Bi-level Dimming

2 or 1 F32T8 120-277V "N" .88 BF UltraStart® 100/30% Bi-level Switching

- UL Type CC Rating provides protection against arcing in electrical devices
- Bi-level Switching 100 to 30%
- Anti-striation Control for better light quality, with no striations
- UL 55C (131F) Ambient rating - High Temperature Protection Circuit
- Multi-Volt Technology handles voltage from 120-277
- Parallel Lamp operation

General characteristics

| | |
|-----------------------------|--|
| Ballast Type | Electronic-Dimming |
| Dimming Type | Step Dimming |
| Starting Method | Program Start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation +/- | 10% |
| Ambient Temperature (Max) | 55° C (131° F) |
| Case Temperature (Max) | 70° C (158° F) |
| Ballast Factor | .88 to .25 |
| Power Factor Correction | Active |
| Sound Rating | A |
| Enclosure Type | Metal |
| Additional Info | No PCB's Anti-striation control, Universal voltage inherent thermal protection |

Electrical characteristics

| | |
|--------------------------------|----------|
| Supply Current Frequency (MIN) | 50/60 Hz |
|--------------------------------|----------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 68967 | | | |

Dimensions

Wiring diagram-LFL- 2N/L S30 - see example on Page 12-27

Case dimensions-Ref Drawing -A - see Page 12-29

| | |
|---|-------------------|
| Length (L) | 9.5 in (241mm) |
| Width (W) | 1.7 in (43mm) |
| Height (H) | 1.2 in (31mm) |
| Mounting dimensions | |
| Mount Length | 8.9 in (226mm) |
| Mount Width | 1.18 in (30mm) |
| Mount Slots (MS) | .3 in (8mm) |
| Weight | 1.47 |
| Exit Type | Side |
| Remote Mounting Distance to lamp (F32T8) | 8 Ft |
| Remote Mounting Wire gage | 18 AWG |
| Lead lengths | |
| Black | 25.0 in (635mm) |
| Blue | 33.0 in (864mm) |
| Red | 33.0 in (864mm) |
| White | 25.0 in (635mm) |
| Yellow | 47.0 in (1194mm) |

Specifications by lamp and wattage

| Type | Lamps # | Light Output | Input Watts | | UL Nominal Line Amps | | Power Factor | | Ballast Factor | Harmonic Total | | Crest Factor | Min Starting Temp |
|-----------|---------|--------------|-------------|------|----------------------|------|--------------|------|----------------|----------------|------|--------------|-------------------|
| | | | 120V | 277V | 120V | 277V | 120V | 277V | | 120V | 277V | | |
| F32T8/U | 2 | 100% | 59 | 57 | 0.51 | 0.22 | 0.97 | 0.96 | 0.88 | 5% | 10% | <1.7 | 0F |
| | 2 | 30% | 24 | 25 | 0.22 | 0.10 | 0.99 | 0.91 | 0.25 | 10% | 17% | <1.7 | 32F |
| | 1 | 100% | 39 | 39 | 0.34 | 0.15 | 0.99 | 0.94 | 1.13 | 5% | 12% | <1.7 | 0F |
| F32T8/WM | 1 | 30% | 20 | 20 | 0.17 | 0.08 | 0.99 | 0.88 | 0.39 | 10% | 20% | <1.7 | 32F |
| | 2 | 100% | 55 | 53 | 0.48 | 0.21 | 1.00 | 0.97 | 0.88 | 5% | 10% | <1.7 | 32F |
| | 2 | 30% | 23 | 24 | 0.21 | 0.10 | 0.99 | 0.91 | 0.23 | 10% | 18% | <1.7 | 32F |
| F28T8 | 1 | 100% | 36 | 36 | 0.32 | 0.14 | 1.00 | 0.94 | 1.13 | 5% | 13% | <1.7 | 32F |
| | 1 | 30% | 19 | 19 | 0.17 | 0.08 | 0.99 | 0.88 | 0.39 | 10% | 21% | <1.7 | 32F |
| | 2 | 100% | 51 | 50 | 0.45 | 0.19 | 1.00 | 0.97 | 0.87 | 5% | 10% | <1.7 | 32F |
| F32T8/25W | 2 | 30% | 22 | 23 | 0.20 | 0.09 | 0.99 | 0.90 | .27 | 10% | 18% | <1.7 | 32F |
| | 1 | 100% | 34 | 34 | 0.30 | 0.13 | 1.00 | 0.94 | 1.11 | 5% | 14% | <1.7 | 32F |
| | 1 | 30% | 18 | 18 | 0.16 | 0.08 | 0.99 | 0.87 | .44 | 10% | 22% | <1.7 | 32F |
| F25T8 | 2 | 100% | 49 | 48 | 0.42 | 0.18 | 1.00 | 0.96 | .84 | 5% | 10% | <1.7 | 32F |
| | 2 | 30% | 22 | 23 | 0.20 | 0.10 | 0.99 | 0.91 | 0.31 | 10% | 18% | <1.7 | 32F |
| | 1 | 100% | 32 | 32 | 0.29 | 0.13 | 1.00 | 0.93 | 1.07 | 10% | 14% | <1.7 | 32F |
| F17T8 | 1 | 30% | 17 | 18 | 0.16 | 0.08 | 0.99 | 0.87 | 0.43 | 10% | 22% | <1.7 | 32F |
| | 2 | 100% | 46 | 45 | 0.41 | 0.18 | 1.00 | 0.96 | 0.94 | 10% | 11% | <1.7 | 0F |
| | 2 | 30% | 21 | 21 | 0.19 | 0.09 | 0.99 | 0.89 | 0.32 | 10% | 20% | <1.7 | 32F |
| F15T8 | 1 | 100% | 31 | 31 | 0.28 | 0.13 | 1.00 | 0.93 | 1.14 | 10% | 15% | <1.7 | 0F |
| | 1 | 30% | 18 | 19 | 0.16 | 0.08 | 0.99 | 0.87 | 0.37 | 10% | 21% | <1.7 | 32F |
| | 2 | 100% | 35 | 34 | 0.30 | 0.14 | 1.00 | 0.94 | .95 | 5% | 13% | <1.7 | 0F |
| F36T8 | 2 | 30% | 17 | 17 | 0.15 | 0.08 | 0.99 | 0.86 | .15 | 10% | 23% | <1.7 | 32F |
| | 1 | 100% | 24 | 24 | 0.21 | 0.10 | 0.99 | 0.89 | 1.14 | 10% | 18% | <1.7 | 0F |
| | 1 | 30% | 15 | 15 | 0.13 | 0.07 | 0.99 | 0.83 | .36 | 10% | 24% | <1.7 | 32F |
| F40T8 | 2 | 100% | 28 | 28 | 0.25 | 0.12 | 1.00 | 0.92 | .92 | 10% | 15% | <1.7 | 0F |
| | 2 | 30% | 13 | 13 | 0.11 | 0.06 | 0.98 | 0.79 | .32 | 11% | 29% | <1.7 | 32F |
| | 1 | 100% | 21 | 21 | 0.18 | 0.09 | 0.99 | 0.88 | 1.15 | 10% | 19% | <1.7 | 0F |
| F36T8 | 1 | 30% | 11 | 11 | 0.09 | 0.06 | 0.98 | 0.75 | .45 | 12% | 32% | <1.7 | 32F |
| | 2 | 100% | 50 | 49 | 0.43 | 0.19 | 1.00 | 0.97 | .88 | 5% | 10% | <1.7 | 32F |
| | 2 | 30% | 24 | 24 | 0.21 | 0.10 | 0.99 | 0.91 | .23 | 10% | 18% | <1.7 | 32F |
| F40T8 | 1 | 100% | 33 | 33 | 0.29 | 0.13 | 1.00 | 0.93 | 1.13 | 10% | 14% | <1.7 | 32F |
| | 1 | 30% | 18 | 19 | 0.16 | 0.08 | 0.99 | 0.88 | .39 | 10% | 21% | <1.7 | 32F |
| | 1 | 100% | 45 | 44 | 0.39 | 0.17 | 1.00 | 0.96 | 1.04 | 5% | 11% | <1.7 | 32F |
| F40T8 | 1 | 30% | 24 | 24 | 0.21 | 0.10 | 0.99 | 0.91 | .42 | 10% | 18% | <1.7 | 32F |

Safety and performance



UL Type 1 Outdoor



UL Type HL ANSI - C82.11 Cons 2002, ANSI - C62.41 - 1991

Product is compliant with material restriction requirements of RoHS

FCC - Part 18 (Class A) for EMI and RFI Non-Consumer Limits cUL Listed



UL Type CC High Temperature Rated: Suitable for high temperature applications

70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty



UltraMax® Bi-Level Dimming & Load Shed Dimming Instant Start High-Efficiency T8 Dimming Ballasts

73233 – GE232MAX90-S60

UltraMax® Bi-Level Dimming Instant Start High-Efficiency

2 or 1 – F32T8 120 to 277 “H” 1.18 BF UltraMax® 100/60% step dim

- Bi-Level Switching 100 to 60%
- Anti-Striation Control for better light quality, with no striations.
- UL 55C Ambient Rating - High Temperature Protection Circuit
- Multi-Voltage Technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices.
- Cold temperature -22F Minimum Starting Temperature

| General characteristics | |
|-------------------------------|---------------------------------|
| Ballast Type | Electronic - Dimming |
| Dimming Type | Continuous |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10 % |
| Ambient Temperature (MAX) | 55° C (131° F) |
| Case Temperature (MAX) | 70° C (158° F) |
| Ballast Factor | High (1.18) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | No PCBs, Anti-striation control |



| Dimensions | |
|--|-------------------|
| Wiring diagram - LFL -2H S60- see example on Page 12-27 | |
| Case dimensions- Ref Drawing -A - see Page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25.0 in (635 mm) |
| Blue | 34.0 in (864 mm) |
| Red | 34.0 in (864 mm) |
| White | 25.0 in (635 mm) |
| Yellow | 41.0 in (1041 mm) |



| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency (MIN) | 60 Hz |


| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 73233 | | | |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|-----------|----------------------------|
| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F32T8 | 100% | 2 | 120 | 75 | 0.63 A | 1.18 | 1.57 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 74 | 0.27 A | 1.18 | 1.59 | 97 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 120 | 44 | 0.37 A | 0.71 | 1.61 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 44 | 0.17 A | 0.71 | 1.61 | 94 | 1.4 | 17 | -22/-30 |
| | 100% | 1 | 120 | 47 | 0.39 A | 1.38 | 2.94 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 1 | 277 | 47 | 0.18 A | 1.38 | 2.94 | 97 | 1.4 | 15 | -22/-30 |
| | 60% | 1 | 120 | 40 | 0.34 A | 1.26 | 3.15 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 1 | 277 | 40 | 0.15 A | 1.26 | 3.15 | 93 | 1.4 | 18 | -22/-30 |
| | 100% | 2 | 120 | 69 | 0.58 A | 1.18 | 1.71 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 2 | 277 | 68 | 0.16 A | 0.74 | 1.09 | 94 | 1.4 | 17 | 60/16 |
| | 60% | 2 | 120 | 43 | 0.36 A | 0.74 | 1.72 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 2 | 277 | 43 | 0.16 A | 0.74 | 1.72 | 94 | 1.4 | 17 | 60/16 |
| F32T8/AWM | 100% | 1 | 120 | 43 | 0.36 A | 1.37 | 3.19 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 1 | 277 | 43 | 0.16 A | 1.37 | 3.19 | 96 | 1.4 | 17 | 60/16 |
| | 60% | 1 | 120 | 39 | 0.33 A | 1.28 | 3.28 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 1 | 277 | 39 | 0.15 A | 1.28 | 3.28 | 96 | 1.4 | 18 | 60/16 |
| | 100% | 2 | 120 | 64 | 0.53 A | 1.18 | 1.84 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 63 | 0.23 A | 1.18 | 1.87 | 96 | 1.4 | 13 | -22/-30 |
| | 60% | 2 | 120 | 43 | 0.36 A | 0.76 | 1.77 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 43 | 0.16 A | 0.76 | 1.77 | 93 | 1.4 | 17 | -22/-30 |
| | 100% | 1 | 120 | 40 | 0.33 A | 1.35 | 3.38 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 1 | 277 | 40 | 0.15 A | 1.35 | 3.38 | 96 | 1.4 | 18 | -22/-30 |
| | 60% | 1 | 120 | 37 | 0.31 A | 1.32 | 3.57 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 1 | 277 | 37 | 0.14 A | 1.32 | 3.57 | 93 | 1.4 | 19 | -22/-30 |
| F28T8 | 100% | 2 | 120 | 59 | 0.49 A | 1.18 | 2.00 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 2 | 277 | 57 | 0.21 A | 1.18 | 2.07 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 2 | 120 | 43 | 0.36 A | 0.78 | 1.81 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 2 | 277 | 43 | 0.16 A | 0.78 | 1.81 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 1 | 120 | 36 | 0.31 A | 1.35 | 3.75 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 1 | 277 | 36 | 0.14 A | 1.35 | 3.75 | 95 | 1.4 | 19 | 60/16 |
| | 60% | 1 | 120 | 34 | 0.29 A | 1.33 | 3.91 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 1 | 277 | 34 | 0.13 A | 1.33 | 3.91 | 93 | 1.4 | 22 | 60/16 |
| | 100% | 2 | 120 | 42 | 0.35 A | 1.17 | 2.79 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 42 | 0.16 A | 1.17 | 2.79 | 96 | 1.4 | 17 | -22/-30 |
| | 60% | 2 | 120 | 38 | 0.32 A | 1.11 | 2.92 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 38 | 0.14 A | 1.11 | 2.92 | 96 | 1.4 | 18 | -22/-30 |
| F32T8/25W | 100% | 1 | 120 | 27 | 0.23 A | 1.37 | 5.07 | 99 | 1.4 | 11 | -22/-30 |
| | 100% | 1 | 277 | 27 | 0.11 A | 1.37 | 5.07 | 92 | 1.4 | 25 | -22/-30 |
| | 60% | 1 | 120 | 26 | 0.21 A | 1.36 | 5.23 | 99 | 1.4 | 12 | -22/-30 |
| | 60% | 1 | 277 | 26 | 0.10 A | 1.36 | 5.24 | 92 | 1.4 | 30 | -22/-30 |
| | 100% | 1 | 120 | 55 | 0.43 A | 1.28 | 2.33 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 1 | 277 | 55 | 0.20 A | 1.28 | 2.33 | 97 | 1.5 | 13 | -22/-30 |
| | 60% | 1 | 120 | 40 | 0.34 A | 1.13 | 2.82 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 1 | 277 | 40 | 0.15 A | 1.13 | 2.82 | 96 | 1.4 | 18 | -22/-30 |

Safety and performance

 UL Type 1 Outdoor
  UL Type HL ANSI - C82.11 Cons 2002, ANSI - C62.41 - 1991
 Product is compliant with material restriction requirements of RoHS

FCC – Part 18 (Class A) for EMI and RFI Non-Consumer Limits
  UL Listed
  UL Type CC
 High Temperature Rated: Suitable for high temperature applications

70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty
 

UltraMax® Bi-Level Dimming & Load Shed Dimming Instant Start High-Efficiency T8 Dimming Ballasts

73231 – GE332MAX90-S60

UltraMax® Bi-Level Dimming Instant Start High-Efficiency

3 – F32T8 120 to 277 “H” 1.18 BF UltraMax® 100/60% step dim

- Bi-Level Switching 100 to 60%
- Anti-Striation Control for better light quality, with no striations.
- UL 55C Ambient Rating - High Temperature Protection Circuit
- Multi-Voltage Technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices.
- Cold temperature -22F Minimum Starting Temperature

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Dimming |
| Dimming Type | Step dimming |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10 % |
| Ambient Temperature (MAX) | 55° C (131° F) |
| Case Temperature (MAX) | 70° C (158° F) |
| Ballast Factor | High (1.18) |
| Power Factor Correction | Active |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Universal voltage, Inherent thermal protection |


| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency (MIN) | 60 Hz |


| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 73231 | | | |


Specifications by lamp and wattage

| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|-----------|----------------------------|
| F32T8 | 100% | 3 | 120 | 113 | 0.94 A | 1.18 | 1.04 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 3 | 277 | 110 | 0.40 A | 1.18 | 1.07 | 97 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 120 | 66 | 0.55 A | 0.71 | 1.08 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 277 | 66 | 0.25 A | 0.71 | 1.08 | 94 | 1.4 | 17 | -22/-30 |
| | 100% | 2 | 120 | 86 | 0.72 A | 1.29 | 1.50 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 85 | 0.32 A | 1.29 | 1.52 | 97 | 1.4 | 13 | -22/-30 |
| | 60% | 2 | 120 | 61 | 0.51 A | 0.99 | 1.62 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 61 | 0.23 A | 0.99 | 1.62 | 93 | 1.4 | 18 | -22/-30 |
| | 100% | 3 | 120 | 103 | 0.86 A | 1.18 | 1.15 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 3 | 277 | 101 | 0.37 A | 1.18 | 1.17 | 97 | 1.4 | 10 | 60/16 |
| | 60% | 3 | 120 | 66 | 0.55 A | 0.75 | 1.14 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 3 | 277 | 62 | 0.23 A | 0.75 | 1.21 | 96 | 1.4 | 17 | 60/16 |
| F32T8/WM | 100% | 2 | 120 | 79 | 0.66 A | 1.26 | 1.59 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 2 | 277 | 78 | 0.29 A | 1.26 | 1.62 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 2 | 120 | 63 | 0.52 A | 1.05 | 1.67 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 2 | 277 | 63 | 0.24 A | 1.05 | 1.67 | 93 | 1.4 | 18 | 60/16 |
| | 100% | 3 | 120 | 95 | 0.79 A | 1.18 | 1.24 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 3 | 277 | 93 | 0.34 A | 1.18 | 1.27 | 96 | 1.4 | 13 | 60/16 |
| | 60% | 3 | 120 | 66 | 0.56 A | 0.75 | 1.14 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 3 | 277 | 65 | 0.24 A | 0.75 | 1.15 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 2 | 120 | 72 | 0.61 A | 1.26 | 1.75 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 71 | 0.27 A | 1.26 | 1.77 | 96 | 1.4 | 16 | -22/-30 |
| | 60% | 2 | 120 | 64 | 0.53 A | 1.05 | 1.64 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 63 | 0.24 A | 1.05 | 1.67 | 93 | 1.4 | 18 | -22/-30 |
| F28T8 | 100% | 3 | 120 | 91 | 0.77 A | 1.18 | 1.30 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 3 | 277 | 89 | 0.32 A | 1.18 | 1.33 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 3 | 120 | 67 | 0.56 A | 0.80 | 1.19 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 3 | 277 | 66 | 0.25 A | 0.80 | 1.21 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 2 | 120 | 67 | 0.56 A | 1.26 | 1.88 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 2 | 277 | 66 | 0.25 A | 1.26 | 1.91 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 2 | 120 | 64 | 0.53 A | 1.05 | 1.64 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 2 | 277 | 63 | 0.24 A | 1.05 | 1.67 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 3 | 120 | 62 | 0.52 A | 1.15 | 1.85 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 3 | 277 | 61 | 0.23 A | 1.15 | 1.89 | 96 | 1.4 | 17 | -22/-30 |
| | 60% | 3 | 120 | 59 | 0.50 A | 1.14 | 1.93 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 277 | 58 | 0.22 A | 1.14 | 1.97 | 96 | 1.4 | 17 | -22/-30 |
| F32T8/25W | 100% | 2 | 120 | 48 | 0.40 A | 1.27 | 2.65 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 48 | 0.19 A | 1.25 | 2.60 | 94 | 1.4 | 19 | -22/-30 |
| | 60% | 2 | 120 | 47 | 0.40 A | 1.25 | 2.66 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 47 | 0.18 A | 1.25 | 2.66 | 94 | 1.4 | 19 | -22/-30 |
| | 100% | 2 | 120 | 102 | 0.85 A | 1.22 | 1.20 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 100 | 0.37 A | 1.22 | 1.22 | 98 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 120 | 61 | 0.51 A | 0.68 | 1.11 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 61 | 0.23 A | 0.68 | 1.11 | 96 | 1.4 | 16 | -22/-30 |

Safety and performance

 UL Type 1 Outdoor
  UL Type HL ANSI - C82.11 Cons 2002, ANSI - C62.41 - 1991 Product is compliant with material restriction requirements of RoHS

FCC – Part 18 (Class A) for EMI and RFI Non-Consumer Limits
  UL Type CC High Temperature Rated: Suitable for high temperature applications

70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty
 

Ballasts
 T8 Instant Start
 T8 Programmed Start
 T8/75 Dimming
 T5 Electronic Programmed Start
 T12 Electronic & High Output
 Magnetic
 Sign
 Compact Fluorescent
 HID Electronic & Electromagnetic

UltraMax® Bi-Level Dimming & Load Shed Dimming Instant Start High-Efficiency T8 Dimming Ballasts

73229 – GE432MAX90-S60

UltraMax® Bi-Level Dimming

Instant Start High-Efficiency

4 – F32T8 120 to 277 “H” 1.18 BF UltraMax® 100/60% step dim

- Bi-Level Switching 100 to 60%
- Anti-Striation Control for better light quality, with no striations.
- UL 55C Ambient Rating - High Temperature Protection Circuit
- Multi-Voltage Technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices.
- Cold temperature -22F Minimum Starting Temperature

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Dimming |
| Dimming Type | Step dimming |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55° C (131° F) |
| Case Temperature (MAX) | 70° C (158° F) |
| Ballast Factor | High (1.18) |
| Power Factor Correction | Active |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Universal voltage, Inherent thermal protection |

| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency (MIN) | 60 Hz |



| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 73231 | | | |



| Dimensions | |
|--|-------------------|
| Wiring diagram - LFL -4H S60 – see example on Page 12-26 | |
| Case dimensions- Ref Drawing -A – see Page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Qty Exit | Length (± 1 in.) |
| Black | 25.0 in (635 mm) |
| Blue | 34.0 in (864 mm) |
| Red | 34.0 in (864 mm) |
| White | 25.0 in (635 mm) |
| Yellow | 41.0 in (1041 mm) |

Specifications by lamp and wattage


| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|-----------|----------------------------|
| F32T8 | 100% | 4 | 120 | 149 | 1.25 A | 1.18 | 0.79 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 4 | 277 | 146 | 0.54 A | 0.71 | 0.49 | 97 | 1.4 | 10 | -22/-30 |
| | 60% | 4 | 120 | 88 | 0.74 A | 0.71 | 0.81 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 4 | 277 | 87 | 0.34 A | 0.71 | 0.82 | 94 | 1.4 | 17 | -22/-30 |
| | 100% | 3 | 120 | 119 | 1.02 A | 1.28 | 1.08 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 3 | 277 | 116 | 0.46 A | 1.28 | 1.10 | 97 | 1.4 | 13 | -22/-30 |
| | 60% | 3 | 120 | 75 | 0.63 A | 0.78 | 1.04 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 277 | 75 | 0.28 A | 0.78 | 1.04 | 93 | 1.4 | 18 | -22/-30 |
| | 100% | 4 | 120 | 136 | 1.14 A | 0.73 | 0.54 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 4 | 277 | 133 | 0.49 A | 1.18 | 0.89 | 97 | 1.4 | 10 | 60/16 |
| | 60% | 4 | 120 | 83 | 0.70 A | 0.73 | 0.88 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 4 | 277 | 83 | 0.31 A | 0.73 | 0.88 | 94 | 1.4 | 17 | 60/16 |
| F32T8/AWM | 100% | 3 | 120 | 113 | 0.95 A | 1.25 | 1.11 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 3 | 277 | 112 | 0.41 A | 1.25 | 1.12 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 3 | 120 | 71 | 0.59 A | 0.79 | 1.11 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 3 | 277 | 71 | 0.27 A | 0.79 | 1.11 | 93 | 1.4 | 18 | 60/16 |
| | 100% | 4 | 120 | 127 | 1.07 A | 1.18 | 0.93 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 4 | 277 | 125 | 0.48 A | 1.18 | 0.94 | 96 | 1.4 | 13 | -22/-30 |
| | 60% | 4 | 120 | 78 | 0.65 A | 0.74 | 0.95 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 4 | 277 | 78 | 0.29 A | 0.74 | 0.95 | 93 | 1.4 | 17 | -22/-30 |
| | 100% | 3 | 120 | 103 | 0.86 A | 1.24 | 1.20 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 3 | 277 | 102 | 0.38 A | 1.24 | 1.22 | 96 | 1.4 | 16 | -22/-30 |
| | 60% | 3 | 120 | 68 | 0.26 A | 0.80 | 1.18 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 277 | 68 | 0.26 A | 0.80 | 1.18 | 93 | 1.4 | 18 | -22/-30 |
| F28T8 | 100% | 4 | 120 | 116 | 0.96 A | 1.18 | 1.02 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 4 | 277 | 114 | 0.43 A | 1.18 | 1.04 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 4 | 120 | 75 | 0.63 A | 0.75 | 1.00 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 4 | 277 | 75 | 0.28 A | 0.75 | 1.00 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 3 | 120 | 96 | 0.80 A | 1.24 | 1.29 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 3 | 277 | 95 | 0.35 A | 1.24 | 1.31 | 97 | 1.4 | 16 | 60/16 |
| | 60% | 3 | 120 | 66 | 0.55 A | 0.80 | 1.21 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 3 | 277 | 66 | 0.49 A | 0.80 | 1.21 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 4 | 120 | 81 | 0.69 A | 1.17 | 1.44 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 4 | 277 | 80 | 0.32 A | 1.17 | 1.46 | 96 | 1.4 | 14 | -22/-30 |
| | 60% | 4 | 120 | 64 | 0.54 A | 0.95 | 1.48 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 4 | 277 | 64 | 0.25 A | 0.95 | 1.48 | 94 | 1.4 | 17 | -22/-30 |
| F32T8/25W | 100% | 3 | 120 | 62 | 0.58 A | 1.25 | 2.02 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 3 | 277 | 62 | 0.24 A | 1.25 | 2.02 | 95 | 1.4 | 18 | -22/-30 |
| | 60% | 3 | 120 | 59 | 0.49 A | 1.24 | 2.10 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 277 | 59 | 0.23 A | 1.24 | 2.10 | 93 | 1.5 | 18 | -22/-30 |
| | 100% | 3 | 120 | 146 | 1.22 A | 1.22 | 0.84 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 3 | 277 | 143 | 0.53 A | 1.22 | 0.85 | 97 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 120 | 84 | 0.70 A | 0.66 | 0.79 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 277 | 83 | 0.31 A | 0.66 | 0.80 | 96 | 1.4 | 14 | -22/-30 |

Safety and performance

 UL Type 1 Outdoor
  UL Type HL ANSI - C82.11 Cons 2002, ANSI - C62.41 - 1991
 Product is compliant with material restriction requirements of RoHS

FCC – Part 18 (Class A) for EMI and RFI Non-Consumer Limits
  UL Listed
  UL Type CC
 High Temperature Rated: Suitable for high temperature applications

70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty



UltraMax® Bi-Level Dimming & Load Shed Dimming Instant Start High-Efficiency T8 Dimming Ballasts

71497 – GE632MAX-H90-S60

UltraMax® Bi-Level Dimming Instant Start High-Efficiency

6, 5, 4 – F32T8 120 to 277 “H” 1.18 BF UltraMax® 100/60% step dim

- Bi-Level Switching 100 to 60%
- Extreme 95% Electrical Efficiency
- UL 55C Ambient Rating - High Temperature Protection Circuit
- Cold temperature -20F Minimum Starting Temperature

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic - Dimming |
| Dimming Type | Step dimming |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10 % |
| Ambient Temperature (MAX) | 55° C (131° F) |
| Case Temperature (MAX) | 70° C (158° F) |
| Ballast Factor | High (1.18) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Universal voltage, Inherent thermal protection |

Electrical characteristics

| | |
|--------------------------------|-------|
| Supply Current Frequency (MIN) | 60 Hz |
|--------------------------------|-------|





Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 71497 | | | |

Specifications by lamp and wattage

| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) | |
|-----------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|-----------|----------------------------|--|
| F32T8 | 100% | 6 | 120 | 221 | 1.94 A | 1.18 | 0.53 | 99 | 1.4 | 10 | -20/-29 | |
| | 100% | 6 | 277 | 215 | 0.82 A | 1.18 | 0.55 | 97 | 1.4 | 10 | -20/-29 | |
| | 60% | 6 | 120 | 133 | 1.13 A | 0.71 | 0.53 | 99 | 1.4 | 1 | -20/-29 | |
| | 60% | 6 | 277 | 132 | 0.53 A | 0.71 | 0.54 | 94 | 1.4 | 17 | -20/-29 | |
| | 100% | 5 | 120 | 197 | 1.73 A | 1.25 | 0.63 | 99 | 1.4 | 10 | -20/-29 | |
| | 100% | 5 | 277 | 192 | 0.73 A | 1.25 | 0.65 | 97 | 1.4 | 13 | -20/-29 | |
| | 60% | 5 | 120 | 123 | 1.04 A | 0.77 | 0.63 | 99 | 1.4 | 10 | -20/-29 | |
| | 60% | 5 | 277 | 122 | 0.49 A | 0.77 | 0.63 | 93 | 1.4 | 18 | -20/-29 | |
| | 100% | 6 | 120 | 205 | 1.80 A | 1.18 | 0.58 | 99 | 1.4 | 10 | 60/16 | |
| | 100% | 6 | 277 | 200 | 0.76 A | 1.18 | 0.59 | 97 | 1.4 | 10 | 60/16 | |
| | 60% | 6 | 120 | 128 | 1.09 A | 0.71 | 0.55 | 99 | 1.4 | 10 | 60/16 | |
| | 60% | 6 | 277 | 127 | 0.51 A | 0.71 | 0.56 | 94 | 1.4 | 17 | 60/16 | |
| F32T8/WM | 100% | 5 | 120 | 182 | 1.60 A | 1.23 | 0.68 | 99 | 1.4 | 10 | 60/16 | |
| | 100% | 5 | 277 | 178 | 0.68 A | 1.23 | 0.69 | 96 | 1.4 | 16 | 60/16 | |
| | 60% | 5 | 120 | 121 | 1.03 A | 0.82 | 0.68 | 99 | 1.4 | 10 | 60/16 | |
| | 60% | 5 | 277 | 120 | 0.49 A | 0.82 | 0.68 | 93 | 1.4 | 18 | 60/16 | |
| | 100% | 6 | 120 | 187 | 1.64 A | 1.18 | 0.63 | 99 | 1.4 | 10 | 60/16 | |
| | 100% | 6 | 277 | 184 | 0.70 A | 1.18 | 0.64 | 96 | 1.4 | 13 | 60/16 | |
| | 60% | 6 | 120 | 123 | 1.05 A | 0.74 | 0.60 | 99 | 1.4 | 10 | 60/16 | |
| | 60% | 6 | 277 | 122 | 0.50 A | 0.74 | 0.61 | 93 | 1.4 | 17 | 60/16 | |
| | 100% | 5 | 120 | 166 | 1.45 A | 1.20 | 0.72 | 99 | 1.4 | 10 | 60/16 | |
| | 100% | 5 | 277 | 164 | 0.63 A | 1.20 | 0.73 | 96 | 1.4 | 16 | 60/16 | |
| | 60% | 5 | 120 | | | | | | | | | |
| | 60% | 5 | 277 | | | | | | | | | |
| F28T8 | 100% | 6 | 120 | 178 | 1.57 A | 1.18 | 0.66 | 99 | 1.4 | 10 | 60/16 | |
| | 100% | 6 | 277 | 176 | 0.68 A | 1.18 | 0.67 | 96 | 1.4 | 16 | 60/16 | |
| | 60% | 6 | 120 | 122 | 1.03 A | 0.70 | 0.57 | 99 | 1.4 | 10 | 60/16 | |
| F32T8/25W | 60% | 6 | 277 | 121 | 0.49 A | 0.70 | 0.58 | 93 | 1.4 | 17 | 60/16 | |
| | 100% | 5 | 120 | 159 | 1.40 A | 1.16 | 0.73 | 99 | 1.4 | 10 | -20/-29 | |
| | 100% | 5 | 277 | 157 | 0.61 A | 1.16 | 0.74 | 95 | 1.4 | 18 | -20/-29 | |
| F25T8 | 60% | 5 | 120 | 118 | 1.01 A | 0.87 | 0.74 | 99 | 1.4 | 10 | -20/-29 | |
| | 60% | 5 | 277 | 117 | 0.48 A | 0.87 | 0.74 | 93 | 1.4 | 20 | -20/-29 | |
| | 100% | 6 | 120 | 122 | 1.08 A | 1.17 | 0.96 | 99 | 1.4 | 10 | -20/-29 | |
| F17T8 | 100% | 6 | 277 | 121 | 0.50 A | 1.17 | 0.97 | 90 | 1.4 | 24 | -20/-29 | |
| | 60% | 6 | 120 | 104 | 0.88 A | 1.03 | 0.99 | 99 | 1.4 | 10 | -20/-29 | |
| | 60% | 6 | 277 | 103 | 0.43 A | 1.03 | 1.00 | 89 | 1.4 | 24 | -20/-29 | |
| | 100% | 5 | 120 | 107 | 0.95 A | 1.24 | 1.16 | 99 | 1.4 | 10 | -20/-29 | |
| | 100% | 5 | 277 | 106 | 0.44 A | 1.24 | 1.17 | 88 | 1.4 | 26 | -20/-29 | |
| | 60% | 5 | 120 | 98 | 0.83 A | 1.16 | 1.18 | 99 | 1.4 | 10 | -20/-29 | |
| | 60% | 5 | 277 | 98 | 0.42 A | 1.16 | 1.18 | 88 | 1.4 | 26 | -20/-29 | |
| | 100% | 5 | 120 | 231 | 2.03 A | 1.18 | 0.51 | 99 | 1.4 | 10 | 0/-18 | |
| | 100% | 5 | 277 | 225 | 0.86 A | 1.18 | 0.52 | 97 | 1.4 | 10 | 0/-18 | |
| | 60% | 5 | 120 | 131 | 1.12 A | 0.64 | 0.49 | 99 | 1.4 | 10 | 0/-18 | |
| | 60% | 5 | 277 | 130 | 0.53 A | 0.64 | 0.49 | 94 | 1.4 | 17 | 0/-18 | |

Safety and performance

 UL Type 1 Outdoor
  UL Type HL ANSI - C82.11 Cons 2002, ANSI - C62.41 - 1991
 Product is compliant with material restriction requirements of RoHS
 FCC - Part 18 (Class A) for EMI and RFI Non-Consumer Limits
  UL Type CC
 High Temperature Rated: Suitable for high temperature applications
 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty
 

UltraMax® Bi-Level Dimming & Load Shed Dimming Instant Start High-Efficiency T8 Dimming Ballasts

73234 – GE232MAX90-V60

UltraMax® Load Shed Dimming Instant Start High-Efficiency

2 or 1 – F32T8 120 to 277 “H” 1.18 BF UltraMax® 0-10V 100-60% dim

- Load Shed Variable Dimming 0-10V 100% to 60%
- Anti-Striation Control for better light quality, with no striations.
- UL 55C Ambient Rating - High Temperature Protection Circuit
- Multi-Voltage Technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices.
- Cold temperature -22F Minimum Starting Temperature

| General characteristics | |
|-------------------------------|---------------------------------|
| Ballast Type | Electronic - Dimming |
| Dimming Type | Continuous |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55° C (131° F) |
| Case Temperature (MAX) | 70° C (158° F) |
| Ballast Factor | High (1.18) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | No PCBs. Anti-striation control |

| Dimensions | |
|---|-------------------------|
| Wiring diagram - LFL -2H V60 – see example on Page 12-27 | |
| Case dimensions- Ref Drawing -A – see Page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in.) |
| Black | 25.0 in (635 mm) |
| Blue | 34.0 in (864 mm) |
| Gray | 25.0 in (635 mm) |
| Red | 34.0 in (864 mm) |
| Violet | 25.0 in (635 mm) |
| White | 25.0 in (635 mm) |
| Yellow | 41.0 in (1041 mm) |



| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency (MIN) | 60 Hz |


| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 73234 | | | |


Specifications by lamp and wattage

| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|-----------|----------------------------|
| F32T8 | 100% | 2 | 120 | 75 | 0.63 A | 1.18 | 1.57 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 74 | 0.28 A | 1.18 | 1.59 | 96 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 120 | 44 | 0.36 A | 0.71 | 1.61 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 43 | 0.17 A | 0.71 | 1.65 | 94 | 1.4 | 18 | -22/-30 |
| | 100% | 1 | 120 | 47 | 0.39 A | 1.38 | 2.94 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 1 | 277 | 47 | 0.18 A | 1.38 | 2.94 | 92 | 1.4 | 18 | -22/-30 |
| | 60% | 1 | 120 | 45 | 0.38 A | 1.34 | 2.98 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 1 | 277 | 45 | 0.18 A | 1.34 | 2.98 | 92 | 1.4 | 18 | -22/-30 |
| | 100% | 2 | 120 | 69 | 0.57 A | 1.18 | 1.71 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 2 | 277 | 68 | 0.25 A | 1.18 | 1.74 | 96 | 1.4 | 11 | 60/16 |
| | 60% | 2 | 120 | 46 | 0.39 A | 0.77 | 1.67 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 2 | 277 | 46 | 0.18 A | 0.77 | 1.67 | 92 | 1.4 | 18 | 60/16 |
| F32T8/AWM | 100% | 1 | 120 | 43 | 0.36 A | 1.37 | 3.19 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 1 | 277 | 43 | 0.17 A | 1.37 | 3.19 | 92 | 1.4 | 20 | 60/16 |
| | 60% | 1 | 120 | 42 | 0.35 A | 1.36 | 3.24 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 1 | 277 | 42 | 0.17 A | 1.36 | 3.24 | 91 | 1.4 | 21 | 60/16 |
| | 100% | 2 | 120 | 63 | 0.53 A | 1.18 | 1.87 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 62 | 0.24 A | 1.18 | 1.90 | 95 | 1.4 | 13 | -22/-30 |
| | 60% | 2 | 120 | 46 | 0.39 A | 0.79 | 1.72 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 46 | 0.18 A | 0.79 | 1.72 | 92 | 1.4 | 19 | -22/-30 |
| | 100% | 1 | 120 | 39 | 0.33 A | 1.35 | 3.46 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 1 | 277 | 39 | 0.16 A | 1.35 | 3.46 | 90 | 1.4 | 26 | -22/-30 |
| | 60% | 1 | 120 | 38 | 0.32 A | 1.34 | 3.53 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 1 | 277 | 38 | 0.16 A | 1.34 | 3.53 | 90 | 1.4 | 26 | -22/-30 |
| F28T8 | 100% | 2 | 120 | 59 | 0.48 A | 1.18 | 2.00 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 2 | 277 | 57 | 0.22 A | 1.18 | 2.07 | 94 | 1.4 | 16 | 60/16 |
| | 60% | 2 | 120 | 46 | 0.38 A | 0.81 | 1.76 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 2 | 277 | 46 | 0.18 A | 0.81 | 1.76 | 92 | 1.4 | 19 | 60/16 |
| | query | 1 | 120 | 36 | 0.30 A | 1.35 | 3.75 | 99 | 1.4 | 10 | 60/16 |
| | query | 1 | 277 | 36 | 0.15 A | 1.35 | 3.75 | 88 | 1.4 | 26 | 60/16 |
| | query | 1 | 120 | 36 | 0.30 A | 1.35 | 3.75 | 99 | 1.4 | 10 | 60/16 |
| | query | 1 | 277 | 36 | 0.15 A | 1.35 | 3.75 | 88 | 1.4 | 26 | 60/16 |
| | 100% | 2 | 120 | 42 | 0.35 A | 1.17 | 2.79 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 42 | 0.17 A | 1.17 | 2.79 | 90 | 1.4 | 24 | -22/-30 |
| | 60% | 2 | 120 | 41 | 0.34 A | 1.16 | 2.83 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 41 | 0.16 A | 1.16 | 2.83 | 90 | 1.4 | 24 | -22/-30 |
| F17T8 | 100% | 1 | 120 | 56 | 0.46 A | 1.28 | 2.29 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 1 | 277 | 55 | 0.21 A | 1.28 | 2.33 | 94 | 1.4 | 15 | -22/-30 |
| | 60% | 1 | 120 | 46 | 0.39 A | 1.18 | 2.57 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 1 | 277 | 46 | 0.18 A | 1.18 | 2.57 | 92 | 1.4 | 18 | -22/-30 |
| F40T8 | 60% | 1 | 277 | 46 | 0.18 A | 1.18 | 2.57 | 92 | 1.4 | 18 | -22/-30 |

Safety and performance

 UL Type 1 Outdoor
  UL Type HL ANSI - C82.11 Cons 2002, ANSI - C62.41 - 1991
 Product is compliant with material restriction requirements of RoHS

FCC - Part 18 (Class A) for EMI and RFI Non-Consumer Limits
  UL Type CC
 High Temperature Rated: Suitable for high temperature applications

70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty
 

UltraMax® Bi-Level Dimming & Load Shed Dimming Instant Start High-Efficiency T8 Dimming Ballasts

73232 – GE332MAX90-V60

UltraMax® Load Shed Dimming Instant Start High-Efficiency

3 – F32T8 120 to 277 “H” 1.18 BF UltraMax® 0-10V 100-60% dim

- Load Shed Variable Dimming 0-10V 100% to 60%
- Anti-Striation Control for better light quality, with no striations.
- UL 55C Ambient Rating - HighTemperature Protection Circuit
- Multi-Voltage Technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices.
- Cold temperature -22F Minimum Starting Temperature

| General characteristics | |
|-------------------------------|---------------------------------|
| Ballast Type | Electronic - Dimming |
| Dimming Type | Continuous |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10 % |
| Ambient Temperature (MAX) | 55° C (131° F) |
| Case Temperature (MAX) | 70° C (158° F) |
| Ballast Factor | High (1.18) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | No PCBs, Anti-striation control |

| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency (MIN) | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 73232 | | | |

| Dimensions | |
|--|-------------------|
| Wiring diagram - LFL -3H V60 – see example on Page 12-27 | |
| Case dimensions- Ref Drawing -A – see Page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Blue | 34.0 in (864 mm) |
| Violet | 25.0 in (635 mm) |
| Red | 34.0 in (864 mm) |
| Yellow | 41.0 in (1041 mm) |
| Black | 25.0 in (635 mm) |
| White | 25.0 in (635 mm) |
| Gray | 25.0 in (635 mm) |

Specifications by lamp and wattage

| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|-----------|----------------------------|
| F32T8 | 100% | 3 | 120 | 113 | 0.94 A | 1.18 | 1.04 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 3 | 277 | 110 | 0.41 A | 1.18 | 1.07 | 97 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 120 | 66 | 0.55 A | 0.71 | 1.08 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 277 | 65 | 0.25 A | 0.71 | 1.09 | 94 | 1.4 | 17 | -22/-30 |
| | 100% | 2 | 120 | 85 | 0.72 A | 1.29 | 1.52 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 84 | 0.32 A | 1.29 | 1.54 | 97 | 1.4 | 13 | -22/-30 |
| | 60% | 2 | 120 | 72 | 0.62 A | 1.05 | 1.46 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 72 | 0.28 A | 1.05 | 1.46 | 93 | 1.4 | 18 | -22/-30 |
| | 100% | 3 | 120 | 104 | 0.91 A | 1.18 | 1.13 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 3 | 277 | 102 | 0.38 A | 1.18 | 1.16 | 97 | 1.4 | 10 | 60/16 |
| | 60% | 3 | 120 | 72 | 0.61 A | 0.78 | 1.08 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 3 | 277 | 71 | 0.28 A | 0.78 | 1.10 | 94 | 1.4 | 17 | 60/16 |
| F32T8/WM | 100% | 2 | 120 | 79 | 0.67 A | 1.26 | 1.59 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 2 | 277 | 78 | 0.30 A | 1.26 | 1.62 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 2 | 120 | 65 | 0.61 A | 1.07 | 1.65 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 2 | 277 | 65 | 0.27 A | 1.07 | 1.65 | 93 | 1.4 | 18 | 60/16 |
| | 100% | 3 | 120 | 95 | 0.81 A | 1.18 | 1.24 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 3 | 277 | 94 | 0.35 A | 1.18 | 1.26 | 96 | 1.4 | 13 | 60/16 |
| | 60% | 3 | 120 | 71 | 0.64 A | 0.87 | 1.23 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 3 | 277 | 70 | 0.28 A | 0.87 | 1.24 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 2 | 120 | 73 | 0.61 A | 1.26 | 1.73 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 72 | 0.27 A | 1.26 | 1.75 | 95 | 1.4 | 16 | -22/-30 |
| | 60% | 2 | 120 | 68 | 0.57 A | 1.10 | 1.62 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 67 | 0.25 A | 1.10 | 1.64 | 93 | 1.4 | 18 | -22/-30 |
| F28T8 | 100% | 3 | 120 | 91 | 0.77 A | 1.18 | 1.30 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 3 | 277 | 89 | 0.33 A | 1.18 | 1.33 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 3 | 120 | 71 | 0.63 A | 0.89 | 1.25 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 3 | 277 | 70 | 0.28 A | 0.89 | 1.27 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 2 | 120 | 69 | 0.57 A | 1.26 | 1.83 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 2 | 277 | 68 | 0.26 A | 1.26 | 1.85 | 95 | 1.4 | 17 | 60/16 |
| | 60% | 2 | 120 | 64 | 0.54 A | 1.15 | 1.80 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 2 | 277 | 63 | 0.24 A | 1.15 | 1.83 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 3 | 120 | 61 | 0.54 A | 1.15 | 1.88 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 3 | 277 | 60 | 0.24 A | 1.15 | 1.92 | 95 | 1.4 | 17 | -22/-30 |
| | 60% | 3 | 120 | 58 | 0.51 A | 1.14 | 1.97 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 277 | 58 | 0.23 A | 1.14 | 1.97 | 94 | 1.4 | 17 | -22/-30 |
| F32T8/25W | 100% | 2 | 120 | 47 | 0.41 A | 1.27 | 2.70 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 47 | 0.20 A | 1.27 | 2.70 | 91 | 1.4 | 21 | -22/-30 |
| | 60% | 2 | 120 | 45 | 0.40 A | 1.25 | 2.78 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 45 | 0.19 A | 1.25 | 2.78 | 91 | 1.4 | 20 | -22/-30 |
| | 100% | 2 | 120 | 104 | 0.87 A | 1.22 | 1.17 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 2 | 277 | 102 | 0.38 A | 1.22 | 1.20 | 97 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 120 | 66 | 0.61 A | 0.68 | 1.03 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 2 | 277 | 65 | 0.27 A | 0.68 | 1.05 | 96 | 1.4 | 14 | -22/-30 |

Safety and performance

 UL Type 1 Outdoor
  UL Type HL ANSI - C82.11 Cons 2002, ANSI - C62.41 - 1991
 Product is compliant with material restriction requirements of RoHS

FCC - Part 18 (Class A) for EMI and RFI Non-Consumer Limits
  UL Type CC
  NEMA Premium

High Temperature Rated: Suitable for high temperature applications 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty

Ballasts T8 Instant Start T8 Programmed Start T8/T5 Dimming T5 Electronic Programmed Start T12 Electronic & High Output Magnetic Sign Compact Fluorescent HID Electronic & Electromagnetic

UltraMax® Bi-Level Dimming & Load Shed Dimming Instant Start High-Efficiency T8 Dimming Ballasts

73230 – GE432MAX90-V60

UltraMax® Load Shed Dimming Instant Start High-Efficiency

4 – F32T8 120 to 277 “H” 1.18 BF UltraMax® 0-10V 100-60% dim

| General characteristics | |
|-------------------------------|---------------------------------|
| Ballast Type | Electronic - Dimming |
| Dimming Type | Continuous |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55° C (131° F) |
| Case Temperature (MAX) | 70° C (158° F) |
| Ballast Factor | High (1.18) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | No PCBs, Anti-striation control |

| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency (MIN) | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 73230 | | | |

Specifications by lamp and wattage

| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy | Power Factor % (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|-------------|------------|------------|--------------|-------------------|-----------------------|------------------|---------------------|-------------------|-----------|----------------------------|
| F32T8 | 100% | 4 | 120 | 149 | 1.25 A | 1.18 | 0.79 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 4 | 277 | 146 | 0.54 A | 1.18 | 0.81 | 97 | 1.4 | 10 | -22/-30 |
| | 60% | 4 | 120 | 88 | 0.74 A | 0.71 | 0.81 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 4 | 277 | 87 | 0.34 A | 0.71 | 0.82 | 94 | 1.4 | 17 | -22/-30 |
| | 100% | 3 | 277 | 116 | 0.46 A | 1.28 | 1.10 | 96 | 1.4 | 13 | -22/-30 |
| | 100% | 3 | 120 | 119 | 1.02 A | 1.28 | 1.08 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 120 | 84 | 0.70 A | 0.89 | 1.06 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 277 | 83 | 0.32 A | 0.89 | 1.07 | 93 | 1.4 | 18 | -22/-30 |
| | 100% | 4 | 120 | 136 | 1.14 A | 0.73 | 0.54 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 4 | 277 | 133 | 0.49 A | 1.18 | 0.89 | 97 | 1.4 | 10 | 60/16 |
| | 60% | 4 | 120 | 93 | 0.78 A | 0.77 | 0.83 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 4 | 277 | 92 | 0.35 A | 0.77 | 0.84 | 94 | 1.4 | 17 | 60/16 |
| F32T8/WM | 100% | 3 | 120 | 113 | 0.95 A | 1.25 | 1.11 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 3 | 277 | 111 | 0.42 A | 1.25 | 1.13 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 3 | 120 | 89 | 0.75 A | 0.91 | 1.02 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 3 | 277 | 89 | 0.34 A | 0.91 | 1.02 | 93 | 1.4 | 18 | 60/16 |
| | 100% | 4 | 120 | 127 | 1.07 A | 1.18 | 0.93 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 4 | 277 | 125 | 0.48 A | 1.18 | 0.94 | 96 | 1.4 | 13 | 60/16 |
| | 60% | 4 | 120 | 95 | 0.79 A | 0.87 | 0.92 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 4 | 277 | 94 | 0.36 A | 0.87 | 0.93 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 3 | 120 | 104 | 0.86 A | 1.24 | 1.19 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 3 | 277 | 102 | 0.38 A | 1.24 | 1.22 | 95 | 1.4 | 16 | -22/-30 |
| | 60% | 3 | 120 | 89 | 0.74 A | 1.18 | 1.33 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 277 | 89 | 0.34 A | 1.18 | 1.33 | 93 | 1.4 | 18 | -22/-30 |
| F28T8 | 100% | 4 | 120 | 116 | 0.96 A | 1.18 | 1.02 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 4 | 277 | 114 | 0.43 A | 1.18 | 1.04 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 4 | 120 | 94 | 0.79 A | 0.87 | 0.93 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 4 | 277 | 93 | 0.36 A | 0.87 | 0.94 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 3 | 120 | 95 | 0.80 A | 1.24 | 1.31 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 3 | 277 | 94 | 0.36 A | 1.24 | 1.32 | 94 | 1.4 | 16 | 60/16 |
| | 60% | 3 | 120 | 90 | 0.75 A | 1.22 | 1.36 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 3 | 277 | 89 | 0.34 A | 1.22 | 1.37 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 4 | 120 | 81 | 0.69 A | 1.17 | 1.44 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 4 | 277 | 80 | 0.32 A | 1.17 | 1.46 | 96 | 1.4 | 14 | -22/-30 |
| | 60% | 4 | 120 | 64 | 0.54 A | 0.95 | 1.48 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 4 | 277 | 64 | 0.25 A | 0.95 | 1.48 | 94 | 1.4 | 17 | -22/-30 |
| F32T8/25W | 100% | 3 | 120 | 62 | 0.58 A | 1.25 | 2.02 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 3 | 277 | 62 | 0.24 A | 1.25 | 2.02 | 95 | 1.4 | 18 | -22/-30 |
| | 60% | 3 | 120 | 59 | 0.49 A | 1.24 | 2.10 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 277 | 59 | 0.23 A | 1.24 | 2.10 | 93 | 1.5 | 18 | -22/-30 |
| | 100% | 3 | 120 | 147 | 1.22 A | 1.22 | 0.83 | 99 | 1.4 | 10 | -22/-30 |
| | 100% | 3 | 277 | 144 | 0.53 A | 1.22 | 0.85 | 97 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 120 | 86 | 0.72 A | 0.66 | 0.77 | 99 | 1.4 | 10 | -22/-30 |
| | 60% | 3 | 277 | 86 | 0.33 A | 0.66 | 0.77 | 96 | 1.4 | 14 | -22/-30 |

Safety and performance

 UL Type 1 Outdoor
  UL Type HL
 ANSI - C82.11 Cons 2002, ANSI - C62.41 - 1991
 Product is compliant with material restriction requirements of RoHS

FCC - Part 18 (Class A) for EMI and RFI Non-Consumer Limits
  cUL Listed
  UL Type CC
 

High Temperature Rated: Suitable for high temperature applications 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty

- Load Shed Variable Dimming 0-10V 100% to 60%
- Anti-Striation Control for better light quality, with no striations.
- UL 55C Ambient Rating - High Temperature Protection Circuit
- Multi-Voltage Technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices.
- Cold temperature -22F Minimum Starting Temperature

| Dimensions | |
|---|-------------------|
| Wiring diagram - LFL - 4H V60 - see example on Page 12-26 | |
| Case dimensions- Ref Drawing -A - see Page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in.) |
| Black | 25.0 in (635 mm) |
| Blue | 34.0 in (864 mm) |
| Gray | 25.0 in (635 mm) |
| Red | 34.0 in (864 mm) |
| Violet | 25.0 in (635 mm) |
| White | 25.0 in (635 mm) |
| Yellow | 41.0 in (1041 mm) |

UltraMax® Bi-Level Dimming & Load Shed Dimming Instant Start High-Efficiency T8 Dimming Ballasts

71731 – GE632MAX-H90-V60

UltraMax® Load Shed Dimming Instant Start High-Efficiency

6 or 5 – F32T8 120 to 277 “H” 1.18 BF UltraMax® 0-10V 100-60% dim

- Load Shed Variable Dimming 0-10V 100% to 60%
- Anti-Striation Control for better light quality, with no striations.
- Extreme 95% Electrical Efficiency
- UL 55C Ambient Rating - High Temperature Protection Circuit
- Multi-Voltage Technology handles voltage from 120 to 277V
- UL Type CC Rating provides protection against arcing in electrical devices.
- Cold temperature -20F Minimum Starting Temperature

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Dimming |
| Dimming Type | Continuous |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55° C (131° F) |
| Case Temperature (MAX) | 70° C (158° F) |
| Ballast Factor | High (1.18) |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Universal voltage, Inherent thermal protection |

| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency (MIN) | 60 Hz |





| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 71731 | | | |

| Dimensions | |
|--|-------------------|
| Wiring diagram - LFL -6H V60 – see example on Page 12-26 | |
| Case dimensions- Ref Drawing -A – see Page 12-29 | |
| Length (L) | 11.75 in (299 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 3.10 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | 25.0 in (635 mm) |
| Blue | 34.0 in (864 mm) |
| Gray | 25.0 in (635 mm) |
| Red | 34.0 in (864 mm) |
| Violet | 25.0 in (635 mm) |
| White | 25.0 in (635 mm) |
| Yellow | 41.0 in (1041 mm) |

Specifications by lamp and wattage

| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|-----------|----------------------------|
| F32T8 | 100% | 6 | 120 | 221 | 1.94 A | 1.18 | 0.53 | 99 | 1.4 | 10 | -20/-29 |
| | 100% | 6 | 277 | 215 | 0.82 A | 1.18 | 0.55 | 97 | 1.4 | 10 | -20/-29 |
| | 60% | 6 | 120 | 133 | 1.13 A | 0.71 | 0.53 | 99 | 1.4 | 1 | -20/-29 |
| | 60% | 6 | 277 | 132 | 0.53 A | 0.71 | 0.54 | 94 | 1.4 | 17 | -20/-29 |
| | 100% | 5 | 120 | 197 | 1.73 A | 1.25 | 0.63 | 99 | 1.4 | 10 | -20/-29 |
| | 100% | 5 | 277 | 192 | 0.73 A | 1.25 | 0.65 | 97 | 1.4 | 13 | -20/-29 |
| | 60% | 5 | 120 | 123 | 1.04 A | 0.77 | 0.63 | 99 | 1.4 | 10 | -20/-29 |
| | 60% | 5 | 277 | 122 | 0.49 A | 0.77 | 0.63 | 93 | 1.4 | 18 | -20/-29 |
| | 100% | 6 | 120 | 205 | 1.80 A | 1.18 | 0.58 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 6 | 277 | 200 | 0.76 A | 1.18 | 0.59 | 97 | 1.4 | 10 | 60/16 |
| | 60% | 6 | 120 | 128 | 1.09 A | 0.71 | 0.55 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 6 | 277 | 127 | 0.51 A | 0.71 | 0.56 | 94 | 1.4 | 17 | 60/16 |
| F32T8/WM | 100% | 5 | 120 | 182 | 1.60 A | 1.23 | 0.68 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 5 | 277 | 178 | 0.68 A | 1.23 | 0.69 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 5 | 120 | 121 | 1.03 A | 0.82 | 0.68 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 5 | 277 | 120 | 0.49 A | 0.82 | 0.68 | 93 | 1.4 | 18 | 60/16 |
| | 100% | 6 | 120 | 187 | 1.64 A | 1.18 | 0.63 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 6 | 277 | 184 | 0.70 A | 1.18 | 0.64 | 96 | 1.4 | 13 | 60/16 |
| | 60% | 6 | 120 | 123 | 1.05 A | 0.74 | 0.60 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 6 | 277 | 122 | 0.50 A | 0.74 | 0.61 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 5 | 120 | 166 | 1.45 A | 1.20 | 0.72 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 5 | 277 | 164 | 0.63 A | 1.20 | 0.73 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 5 | 120 | 119 | 1.01 A | 0.86 | 0.72 | 99 | 1.4 | 10 | -20/-29 |
| | 60% | 5 | 277 | 118 | 0.48 A | 0.86 | 0.73 | 93 | 1.4 | 18 | 60/16 |
| F28T8 | 100% | 6 | 120 | 178 | 1.57 A | 1.18 | 0.66 | 99 | 1.4 | 10 | 60/16 |
| | 100% | 6 | 277 | 176 | 0.68 A | 1.18 | 0.67 | 96 | 1.4 | 16 | 60/16 |
| | 60% | 6 | 120 | 122 | 1.03 A | 0.70 | 0.57 | 99 | 1.4 | 10 | 60/16 |
| | 60% | 6 | 277 | 121 | 0.49 A | 0.70 | 0.58 | 93 | 1.4 | 17 | 60/16 |
| | 100% | 5 | 120 | 159 | 1.40 A | 1.16 | 0.73 | 99 | 1.4 | 10 | -20/-29 |
| | 100% | 5 | 277 | 157 | 0.61 A | 1.16 | 0.74 | 95 | 1.4 | 18 | -20/-29 |
| F32T8/25W | 60% | 5 | 120 | 118 | 1.01 A | 0.87 | 0.74 | 99 | 1.4 | 10 | -20/-29 |
| | 60% | 5 | 277 | 117 | 0.48 A | 0.87 | 0.74 | 93 | 1.4 | 20 | -20/-29 |
| | 100% | 6 | 120 | 122 | 1.08 A | 1.17 | 0.96 | 99 | 1.4 | 10 | -20/-29 |
| | 100% | 6 | 277 | 121 | 0.50 A | 1.17 | 0.97 | 99 | 1.4 | 24 | -20/-29 |
| | 60% | 6 | 120 | 104 | 0.88 A | 1.03 | 0.99 | 99 | 1.4 | 10 | -20/-29 |
| | 60% | 6 | 277 | 103 | 0.43 A | 1.03 | 1.00 | 89 | 1.4 | 24 | -20/-29 |
| F25T8 | 100% | 5 | 120 | 107 | 0.95 A | 1.24 | 1.16 | 99 | 1.4 | 10 | -20/-29 |
| | 100% | 5 | 277 | 106 | 0.44 A | 1.24 | 1.17 | 88 | 1.4 | 26 | -20/-29 |
| | 60% | 5 | 120 | 98 | 0.83 A | 1.16 | 1.18 | 99 | 1.4 | 10 | -20/-29 |
| | 60% | 5 | 277 | 98 | 0.42 A | 1.16 | 1.18 | 88 | 1.4 | 26 | -20/-29 |
| | 100% | 5 | 120 | 231 | 2.03 A | 1.18 | 0.51 | 99 | 1.4 | 10 | 0/-18 |
| | 100% | 5 | 277 | 225 | 0.86 A | 1.18 | 0.52 | 97 | 1.4 | 10 | 0/-18 |
| F17T8 | 60% | 5 | 120 | 131 | 1.12 A | 0.64 | 0.49 | 99 | 1.4 | 10 | 0/-18 |
| | 60% | 5 | 277 | 130 | 0.53 A | 0.64 | 0.49 | 94 | 1.4 | 17 | 0/-18 |
| | 60% | 5 | 277 | 130 | 0.53 A | 0.64 | 0.49 | 94 | 1.4 | 17 | 0/-18 |

Safety and performance

 UL Type 1 Outdoor
  UL Type HL
 ANSI - C82.11 Cons 2002, ANSI - C62.41 - 1991
 Product is compliant with material restriction requirements of RoHS
 FCC – Part 18 (Class A) for EMI and RFI Non-Consumer Limits
 cUL Listed
 UL Type CC
 High Temperature Rated: Suitable for high temperature applications
 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty


Ballasts
 T8 Instant Start
 T8 Programmed Start
 T8/75 Dimming
 T5 Electronic Programmed Start
 T12 Electronic & High Output
 Magnetic
 Sign
 Compact Fluorescent
 HID Electronic & Electromagnetic

UltraStart® T8 100-3% 0-10V 120-277V Programmed Start Dimming T8 Dimming Ballasts

75379 – GE132MVPS-N-V03

T8 Dimming/UltraStart® T8 100-3% 0-10V

Programmed Start Dimming

1 – F32T8 120V-277V “N” .88 BF UltraStart® 0-10V Dimming 100-3%

- High Efficiency 100-3% 0-10V Programmed Start Dimming
- Multi-Voltage Technology handles voltage from 120 to 277V
- Parallel Lamp Operation - reliable deep dimming performance
- NEMA LL-9 Compliant - GE programmed start life and warranty ratings
- Anti-striation control for use with F32T8/WM or F28T8 Lamps
- UL Type CC rating provides protection against arcing in electrical devices
- UL 55C Ambient Rating - high temperature protection circuit
- Compatible with Class 1 or Class 2 LV 0-10VDC controllers

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Dimming |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10 % |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70° C (158° F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Anti-striation control, Thermally protected, Universal voltage |

| Electrical characteristics | |
|--------------------------------|------------|
| Supply Current Frequency | 50Hz |
| Supply Current Frequency (MIN) | 50Hz/60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75379 | | | |

| Dimensions | |
|--|-------------------|
| Wiring diagram – LFL PSD1 – see example on page 12-28 | |
| Case dimensions – Ref Drawing - A – see page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 5 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Length (± 1 in.) | |
| Yellow | 47.0 in (1194 mm) |
| White | 25.0 in (635 mm) |
| Red | 33.0 in (838 mm) |
| Blue | 33.0 in (838 mm) |
| Black | 25.0 in (635 mm) |
| Violet | 25.0 in (635 mm) |
| Gray | 25.0 in (635 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|------------------|-----------|----------------------------|
| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (=) | THD % (=) | Min. Starting Temp (°F/°C) |
| F32T8 | 100% | 1 | 120 | 30 | 0.25 A | 0.88 | | 98 | 1.7 | 10 | |
| | 100% | 1 | 277 | 29 | 0.11 A | 0.88 | | 98 | 1.7 | 10 | |
| | 3% | 1 | 120 | 7 | 0.06 A | 0.01 | | 90 | 1.7 | 32 | |
| F32T8/WM | 100% | 1 | 277 | 7 | 0.03 A | 0.01 | | 90 | 1.7 | 32 | |
| | 100% | 1 | 120 | 28 | 0.24 A | 0.88 | | 98 | 1.7 | 10 | |
| | 100% | 1 | 277 | 28 | 0.10 A | 0.88 | | 98 | 1.7 | 10 | |
| F28T8 | 3% | 1 | 120 | 7 | 0.05 A | 0.01 | | 90 | 1.7 | 32 | |
| | 3% | 1 | 277 | 7 | 0.03 A | 0.01 | | 90 | 1.7 | 32 | |
| | 100% | 1 | 120 | 26 | 0.22 A | 0.88 | | 98 | 1.7 | 10 | |
| F28T8 | 100% | 1 | 277 | 26 | 0.09 A | 0.88 | | 98 | 1.7 | 10 | |
| | 3% | 1 | 120 | 7 | 0.05 A | 0.01 | | 90 | 1.7 | 32 | |
| | 3% | 1 | 277 | 7 | 0.03 A | 0.01 | | 90 | 1.7 | 32 | |

Safety and performance

 UL Type 1 Outdoor
  UL Type HL
  FCC – CLASS A Non-Consumer
  UL Class P
  ANSI – C62.41
  Product is compliant with material restriction requirements of RoHS

 cUL Listed
  UL Listed
  **NEMA Premium**

UltraStart® T8 100-3% 0-10V 120-277V Programmed Start Dimming T8 Dimming Ballasts

75380 – GE232MVPS-N-V03

T8 Dimming/UltraStart® T8 100-3% 0-10V Programmed Start Dimming

2 – F32T8 120V-277V Normal Light .88 BF UltraStart® 0-10V Dimming 100-3%

- High Efficiency 100-3% 0-10V Programmed Start Dimming
- Multi-Voltage Technology handles voltage from 120 to 277V
- Parallel Lamp Operation - reliable deep dimming performance
- NEMA LL-9 Compliant - GE programmed start life and warranty ratings
- Anti-striation control for use with F32T8/WM or F28T8 Lamps
- UL Type CC rating provides protection against arcing in electrical devices
- UL 55C Ambient Rating - high temperature protection circuit
- Compatible with Class 1 or Class 2 LV 0-10VDC controllers

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Dimming |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 104°F (40°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Additional Info | Anti-striation control, Thermally protected, Universal voltage |

| Electrical characteristics | |
|--------------------------------|---|
| Supply Current Frequency | 50 Hz/Supply Current Frequency (MIN)/ 50 Hz/ 60 (MIN) |
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75380 | | | |

| Dimensions | |
|--|------------------------|
| Wiring diagram – LFL PSD2 – see example on page 12-28 | |
| Case dimensions – Ref Drawing - A – see page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 5 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| | Length (± 1 in) |
| Black | 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| White | 25 in (635 mm) |
| Yellow | 47 in (1194 mm) |
| Violet | 25 in (635 mm) |
| Gray | 25 in (635 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | | |
|------------------------------------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|------------------|-----------|----------------------------|--|
| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (=) | THD % (=) | Min. Starting Temp (°F/°C) | |
| F32T8 | 100% | 2 | 120 | 58 | 0.50 A | 0.88 | | 98 | 1.7 | 10 | | |
| | 100% | 2 | 277 | 56 | 0.21 A | 0.88 | | 98 | 1.7 | 10 | | |
| | 3% | 2 | 120 | 10 | 0.09 A | 0.03 | | 90 | 1.7 | 32 | | |
| | 3% | 2 | 277 | 11 | 0.04 A | 0.03 | | 90 | 1.7 | 32 | | |
| | 100% | 1 | 120 | 40 | 0.33 A | 1.1 | | 98 | 1.7 | 10 | | |
| | 100% | 1 | 277 | 40 | 0.15 A | 1.1 | | 98 | 1.7 | 10 | | |
| | 3% | 1 | 120 | 8 | 0.06 A | 0.04 | | 80 | 1.7 | 32 | | |
| | 3% | 1 | 277 | 8 | 0.03 A | 0.03 | | 80 | 1.7 | 32 | | |
| | 100% | 2 | 120 | 54 | 0.45 A | 0.88 | | 98 | 1.7 | 10 | | |
| | 100% | 2 | 277 | 53 | 0.19 A | 0.88 | | 98 | 1.7 | 10 | | |
| | 3% | 2 | 120 | 10 | 0.09 A | 0.03 | | 90 | 1.7 | 32 | | |
| | 3% | 2 | 277 | 11 | 0.04 A | 0.03 | | 90 | 1.7 | 32 | | |
| F32T8/WM | 100% | 1 | 120 | 38 | 0.31 A | 1.1 | | 98 | 1.7 | 10 | | |
| | 100% | 1 | 277 | 37 | 0.14 A | 1.1 | | 90 | 1.7 | 10 | | |
| | 3% | 1 | 120 | 8 | 0.06 A | 0.04 | | 80 | 1.7 | 32 | | |
| | 3% | 1 | 277 | 8 | 0.03 A | 0.04 | | 89 | 1.7 | 32 | | |
| | 100% | 2 | 120 | 50 | 0.42 A | 0.88 | | 98 | 1.7 | 10 | | |
| | 100% | 2 | 277 | 49 | 0.18 A | 0.88 | | 98 | 1.7 | 10 | | |
| | 3% | 2 | 120 | 10 | 0.09 A | 0.03 | | 90 | 1.7 | 32 | | |
| | 3% | 2 | 277 | 11 | 0.04 A | 0.03 | | 90 | 1.7 | 32 | | |
| | 100% | 1 | 120 | 36 | 0.30 A | 1.1 | | 98 | 1.7 | 10 | | |
| | 100% | 1 | 277 | 35 | 0.13 A | 1.1 | | 98 | 1.7 | 10 | | |
| | 3% | 1 | 120 | 8 | 0.06 A | 0.04 | | 80 | 1.7 | 32 | | |
| | 3% | 1 | 277 | 8 | 0.03 A | 0.04 | | 80 | 1.7 | 32 | | |
| F28T8 | 3% | 1 | 277 | 8 | 0.03 A | 0.04 | | 80 | 1.7 | 32 | | |

Safety and performance

 UL Type 1 Outdoor
  UL Type HL
  UL Class P
 FCC – CLASS A Non-Consumer
 ANSI – C62.41
 Product is compliant with material restriction requirements of RoHS

cUL Listed
  UL Listed
  NEMA Premium

UltraStart® T8 100-3% 0-10V 120-277V Programmed Start Dimming T8 Dimming Ballasts

75381 – GE332MVPS-N-V03

T8 Dimming/UltraStart® T8 100-3% 0-10V

Programmed Start Dimming

3 – F32T8 120V-277V Normal Light .88 BF UltraStart® 0-10V Dimming 100-3%

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Dimming |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 104°F (40°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, TCLP compliant, Thermally protected, Universal voltage |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75381 | | | |

- High Efficiency 100-3% 0-10V Programmed Start Dimming
- Multi-Voltage Technology handles voltage from 120 to 277V
- Parallel Lamp Operation - reliable deep dimming performance
- NEMA LL-9 Compliant - GE programmed start life and warranty ratings
- Anti-striation control for use with F32T8/WM or F28T8 Lamps
- UL Type CC rating provides protection against arcing in electrical devices
- UL 55C Ambient Rating - high temperature protection circuit
- Compatible with Class 1 or Class 2 LV 0-10VDC controllers

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL PSD3 – see example on page 12-28 | |
| Case dimensions – Ref Drawing - A – see page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 5 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| White and Black | Length (± 1 in) |
| Blue and Red | 25 in (635 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 33 in (838 mm) |
| Violet | 47 in (1194 mm) |
| Gray | 25 in (635 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|------------------|-----------|----------------------------|
| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (=) | THD % (=) | Min. Starting Temp (°F/°C) |
| F32T8 | 100% | 3 | 120 | 87 | 0.71 A | 0.88 | | 98 | 1.7 | 10 | |
| | 100% | 3 | 277 | 85 | 0.30 A | 0.88 | | 98 | 1.7 | 10 | |
| | 3% | 3 | 120 | 16 | 0.15 A | 0.03 | | 90 | 1.7 | 32 | |
| | 3% | 3 | 277 | 16 | 0.07 A | 0.03 | | 90 | 1.7 | 32 | |
| | 100% | 2 | 120 | 69 | 0.60 A | 0.98 | | 98 | 1.7 | 10 | |
| | 100% | 2 | 277 | 68 | 0.25 A | 0.98 | | 98 | 1.7 | 10 | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.05 | | 80 | 1.7 | 32 | |
| | 3% | 2 | 277 | 14 | 0.06 A | 0.05 | | 80 | 1.7 | 32 | |
| | 100% | 3 | 120 | 78 | 0.65 A | 0.86 | | 98 | 1.7 | 10 | |
| | 100% | 3 | 277 | 76 | 0.28 A | 0.86 | | 98 | 1.7 | 10 | |
| | 3% | 3 | 120 | 16 | 0.15 A | 0.03 | | 90 | 1.7 | 32 | |
| | 3% | 3 | 277 | 16 | 0.07 A | 0.03 | | 90 | 1.7 | 32 | |
| F32T8/WM | 100% | 2 | 120 | 66 | 0.55 A | 0.96 | | 98 | 1.7 | 10 | |
| | 100% | 2 | 277 | 65 | 0.24 A | 0.96 | | 90 | 1.7 | 10 | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.06 | | 80 | 1.7 | 32 | |
| | 3% | 2 | 277 | 14 | 0.06 A | 0.06 | | 89 | 1.7 | 32 | |
| | 100% | 3 | 120 | 74 | 0.60 A | 0.85 | | 98 | 1.7 | 10 | |
| | 100% | 3 | 277 | 73 | 0.25 A | 0.85 | | 98 | 1.7 | 10 | |
| | 3% | 3 | 120 | 16 | 0.14 A | 0.03 | | 90 | 1.7 | 32 | |
| | 3% | 3 | 277 | 16 | 0.07 A | 0.03 | | 90 | 1.7 | 32 | |
| | 100% | 2 | 120 | 58 | 0.50 A | 0.94 | | 98 | 1.7 | 10 | |
| | 100% | 2 | 277 | 58 | 0.21 A | 0.94 | | 98 | 1.7 | 10 | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.07 | | 80 | 1.7 | 32 | |
| | 3% | 2 | 277 | 14 | 0.06 A | 0.06 | | 80 | 1.7 | 32 | |
| F28T8 | 3% | 2 | 277 | 14 | 0.06 A | 0.06 | | 80 | 1.7 | 32 | |

Safety and performance

Product is compliant with material restriction requirements of RoHS  UL Type 1 Outdoor ANSI – C62.41  UL Type HL FCC – CLASS A Non-Consumer  UL Class P



UltraStart® T8 100-3% 0-10V 120-277V Programmed Start Dimming T8 Dimming Ballasts

75382 – GE432-MVPS-N-V03

T8 Dimming/UltraStart® T8 100-3% 0-10V Programmed Start Dimming

4 F32T8 120V-277V Normal Light .88 BF UltraStart® 0-10V Dimming 100-3%

- High Efficiency 100-3% 0-10V Programmed Start Dimming
- Multi-Voltage Technology handles voltage from 120 to 277V
- Parallel Lamp Operation - reliable deep dimming performance
- NEMA LL-9 Compliant - GE programmed start life and warranty ratings
- Anti-striation control for use with F32T8/WM or F28T8 Lamps
- UL Type CC rating provides protection against arcing in electrical devices
- UL 55C Ambient Rating - high temperature protection circuit
- Compatible with Class 1 or Class 2 LV 0-10VDC controllers

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Dimming |
| Starting Method | Rapid start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 104°F (40°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, Thermally protected, Universal voltage |

| Electrical characteristics | |
|--------------------------------|--------------|
| Supply Current Frequency (MIN) | 50 Hz/ 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75382 | | | |

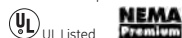
| Dimensions | |
|--|-----------------------------------|
| Wiring diagram – LFL PSD4 – see example on page 12-28 | |
| Case dimensions – Ref Drawing - A – see page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 5 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| White and Black | Length (± 1 in) 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Blue/White | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |
| Violet | 25 in (635 mm) |
| Gray | 25 in (635 mm) |

Specifications by lamp and wattage

| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (=) | THD % (=) | Min. Starting Temp (°F/°C) |
|----------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|------------------|-----------|----------------------------|
| F32T8 | 100% | 4 | 120 | 114 | 0.96 A | 0.88 | | 99 | 1.7 | 10 | |
| | 100% | 4 | 277 | 111 | 0.41 A | 0.88 | | 98 | 1.7 | 10 | |
| | 3% | 4 | 120 | 22 | 0.18 A | 0.03 | | 99 | 1.7 | 15 | |
| | 3% | 4 | 277 | 22 | 0.09 A | 0.03 | | 90 | 1.7 | 30 | |
| | 100% | 3 | 120 | 94 | 0.79 A | 0.90 | | 99 | 1.7 | 10 | |
| | 100% | 3 | 277 | 92 | 0.34 A | 0.90 | | 99 | 1.7 | 10 | |
| | 3% | 3 | 120 | 19 | 0.16 A | 0.03 | | 98 | 1.7 | 15 | |
| | 3% | 3 | 277 | 18 | 0.08 A | 0.03 | | 90 | 1.7 | 30 | |
| | 100% | 4 | 120 | 106 | 0.90 A | 0.86 | | 99 | 1.7 | 10 | |
| | 100% | 4 | 277 | 104 | 0.38 A | 0.86 | | 98 | 1.7 | 10 | |
| | 3% | 4 | 120 | 22 | 0.18 A | 0.03 | | 99 | 1.7 | 15 | |
| | 3% | 4 | 277 | 22 | 0.09 A | 0.03 | | 90 | 1.7 | 30 | |
| F32T8/WM | 100% | 3 | 120 | 87 | 0.73 A | 0.90 | | 99 | 1.7 | 10 | |
| | 100% | 3 | 277 | 85 | 0.32 A | 0.90 | | 99 | 1.7 | 10 | |
| | 3% | 3 | 120 | 19 | 0.16 A | 0.03 | | 98 | 1.7 | 15 | |
| | 3% | 3 | 277 | 19 | 0.08 A | 0.03 | | 90 | 1.7 | 30 | |
| | 100% | 4 | 120 | 98 | 0.82 A | 0.85 | | 99 | 1.7 | 10 | |
| | 100% | 4 | 277 | 95 | 0.36 A | 0.85 | | 98 | 1.7 | 10 | |
| | 3% | 4 | 120 | 22 | 0.18 A | 0.03 | | 99 | 1.7 | 15 | |
| | 3% | 4 | 277 | 22 | 0.09 A | 0.03 | | 90 | 1.7 | 30 | |
| | 100% | 3 | 120 | 79 | 0.70 A | 0.90 | | 99 | 1.7 | 10 | |
| | 100% | 3 | 277 | 78 | 0.30 A | 0.90 | | 99 | 1.7 | 10 | |
| | 3% | 3 | 120 | 19 | 0.16 A | 0.03 | | 98 | 1.7 | 15 | |
| | 3% | 3 | 277 | 19 | 0.08 A | 0.03 | | 90 | 1.7 | 30 | |
| F28T8 | 3% | 3 | 120 | 19 | 0.16 A | 0.03 | | 98 | 1.7 | 15 | |
| | 3% | 3 | 277 | 19 | 0.08 A | 0.03 | | 90 | 1.7 | 30 | |

Safety and performance

Product is compliant with material restriction requirements of RoHS  UL Type 1 Outdoor ANSI - C62.41  UL Type HL FCC - CLASS A Non-Consumer  UL Class P



UltraStart® T8 100-3% 0-10V 120-277V Programmed Start Dimming T8 Dimming Ballasts

75383 – GE232-MVPS-H-V03

T8 Dimming/UltraStart® T8 100-3% 0-10V

Programmed Start Dimming

2 or 1 – F32T8 120V-277V High Light 1.18 BF UltraStart® 0-10V Dimming 100-3%

| General characteristics | |
|-------------------------------|-----------------------------------|
| Ballast Type | Electronic – Dimming |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Thermally protected |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75383 | | | |





- High Efficiency 100-3% 0-10V Programmed Start Dimming
- Multi-Voltage Technology handles voltage from 120 to 277V
- Parallel Lamp Operation - reliable deep dimming performance
- NEMA LL-9 Compliant - GE programmed start life and warranty ratings
- Anti-striation control for use with F32T8/WM or F28T8 Lamps
- UL Type CC rating provides protection against arcing in electrical devices
- UL 55C Ambient Rating - high temperature protection circuit
- Compatible with Class 1 or Class 2 LV 0-10VDC controllers



| Dimensions | |
|--|------------------------|
| Wiring diagram – LFL PSD2 – see example on page 12-28 | |
| Case dimensions – Ref Drawing – A – see page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 5 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in) |
| Blue and Red | 33 in (838 mm) |
| Black | 25 in (635 mm) |
| White | 25 in (635 mm) |
| Yellow | 47 in (1194 mm) |
| Blue | 33 in (838 mm) |
| Violet | 25 in (635 mm) |
| Gray | 25 in (635 mm) |

Specifications by lamp and wattage

| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (=) | THD % (=) | Min. Starting Temp (°F/°C) |
|----------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|------------------|-----------|----------------------------|
| F32T8 | 100% | 2 | 120 | 76 | 0.64 A | 1.18 | | 98 | 1.7 | 10 | |
| | 100% | 2 | 277 | 74 | 0.27 A | 1.18 | | 98 | 1.7 | 10 | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.03 | | 90 | 1.7 | 32 | |
| | 3% | 2 | 277 | 12 | 0.05 A | 0.03 | | 90 | 1.7 | 32 | |
| | 100% | 1 | 120 | 46 | 0.40 A | 1.34 | | 98 | 1.7 | 10 | |
| | 100% | 1 | 277 | 46 | 0.17 A | 1.33 | | 98 | 1.7 | 10 | |
| | 3% | 1 | 120 | 8 | 0.07 A | 0.07 | | 80 | 1.7 | 32 | |
| | 3% | 1 | 277 | 8 | 0.04 A | 0.07 | | 80 | 1.7 | 32 | |
| | 100% | 2 | 120 | 72 | 0.60 A | 1.16 | | 98 | 1.7 | 10 | |
| | 100% | 2 | 277 | 70 | 0.25 A | 1.16 | | 98 | 1.7 | 10 | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.03 | | 90 | 1.7 | 32 | |
| | 3% | 2 | 277 | 12 | 0.05 A | 0.03 | | 90 | 1.7 | 32 | |
| F32T8/WM | 100% | 1 | 120 | 44 | 0.36 A | 1.33 | | 98 | 1.7 | 10 | |
| | 100% | 1 | 277 | 44 | 0.16 A | 1.33 | | 90 | 1.7 | 10 | |
| | 3% | 1 | 120 | 8 | 0.07 A | 0.08 | | 80 | 1.7 | 32 | |
| | 3% | 1 | 277 | 8 | 0.04 A | 0.08 | | 89 | 1.7 | 32 | |
| | 100% | 2 | 120 | 66 | 0.55 A | 1.15 | | 98 | 1.7 | 10 | |
| | 100% | 2 | 277 | 65 | 0.24 A | 1.15 | | 98 | 1.7 | 10 | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.03 | | 90 | 1.7 | 32 | |
| | 3% | 2 | 277 | 12 | 0.05 A | 0.03 | | 90 | 1.7 | 32 | |
| | 100% | 1 | 120 | 41 | 0.34 A | 1.33 | | 98 | 1.7 | 10 | |
| | 100% | 1 | 277 | 41 | 0.15 A | 1.33 | | 98 | 1.7 | 10 | |
| | 3% | 1 | 120 | 8 | 0.07 A | 0.08 | | 80 | 1.7 | 32 | |
| | 3% | 1 | 277 | 8 | 0.04 A | 0.08 | | 80 | 1.7 | 32 | |
| F28T8 | 3% | 1 | 120 | 8 | 0.04 A | 0.08 | | 80 | 1.7 | 32 | |

Safety and performance

 UL Type 1 Outdoor
  UL Type HL
 Product is compliant with material restriction requirements of RoHS
 FCC – CLASS A Non-Consumer
 ANSI – C62.41
  UL Class P
 

 UL Listed
  UL Listed
 High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

UltraStart® T8 100-3% 0-10V 120-277V Programmed Start Dimming T8 Dimming Ballasts

75384 – GE332MVPS-H-V03

T8 Dimming/UltraStart® T8 100-3% 0-10V Programmed Start Dimming

3 – F32T8 120V-277V High Light 1.18 BF UltraStart® 0-10V Dimming 100-3%

- High Efficiency 100-3% 0-10V Programmed Start Dimming
- Multi-Voltage Technology handles voltage from 120 to 277V
- Parallel Lamp Operation - reliable deep dimming performance
- NEMA LL-9 Compliant - GE programmed start life and warranty ratings
- Anti-striation control for use with F32T8/WM or F28T8 Lamps
- UL Type CC rating provides protection against arcing in electrical devices
- UL 55C Ambient Rating - high temperature protection circuit
- Compatible with Class 1 or Class 2 LV 0-10VDC controllers

| General characteristics | |
|-------------------------------|-----------------------------------|
| Ballast Type | Electronic - Dimming |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A120-24 decibels |
| Additional Info | Auto-restart, Thermally protected |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75384 | | | |

| Dimensions | |
|--|-----------------------------------|
| Wiring diagram – LFL PSD3 – see example on page 12-28 | |
| Case dimensions – Ref Drawing - A – see page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 5 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| White and Black | Length (± 1 in) 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |
| Violet | 25 in (635 mm) |
| Gray | 25 in (635 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | |
|------------------------------------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|------------------|-----------|----------------------------|
| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (=) | THD % (=) | Min. Starting Temp (°F/°C) |
| F32T8 | 100% | 3 | 120 | 116 | 0.97 A | 1.18 | | 98 | 1.7 | 10 | |
| | 100% | 3 | 277 | 113 | 0.41 A | 1.18 | | 98 | 1.7 | 10 | |
| | 3% | 3 | 120 | 17 | 0.14 A | 0.03 | | 90 | 1.7 | 32 | |
| | 3% | 3 | 277 | 17 | 0.07 A | 0.03 | | 90 | 1.7 | 32 | |
| | 100% | 2 | 120 | 87 | 0.73 A | 1.26 | | 98 | 1.7 | 10 | |
| | 100% | 2 | 277 | 86 | 0.31 A | 1.26 | | 98 | 1.7 | 10 | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.05 | | 80 | 1.7 | 32 | |
| | 3% | 2 | 277 | 14 | 0.06 A | 0.05 | | 80 | 1.7 | 32 | |
| | 100% | 3 | 120 | 103 | 0.86 A | 1.16 | | 98 | 1.7 | 10 | |
| | 100% | 3 | 277 | 104 | 0.38 A | 1.16 | | 98 | 1.7 | 10 | |
| | 3% | 3 | 120 | 17 | 0.14 A | 0.03 | | 90 | 1.7 | 32 | |
| | 3% | 3 | 277 | 17 | 0.07 A | 0.03 | | 90 | 1.7 | 32 | |
| F32T8/WM | 100% | 2 | 120 | 81 | 0.67 A | 1.26 | | 98 | 1.7 | 10 | |
| | 100% | 2 | 277 | 80 | 0.30 A | 1.26 | | 90 | 1.7 | 10 | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.05 | | 80 | 1.7 | 32 | |
| | 3% | 2 | 277 | 14 | 0.06 A | 0.05 | | 89 | 1.7 | 32 | |
| | 100% | 3 | 120 | 88 | 0.73 A | 1.15 | | 98 | 1.7 | 10 | |
| | 100% | 3 | 277 | 96 | 0.35 A | 1.15 | | 98 | 1.7 | 10 | |
| | 3% | 3 | 120 | 17 | 0.14 A | 0.03 | | 90 | 1.7 | 32 | |
| | 3% | 3 | 277 | 17 | 0.07 A | 0.03 | | 90 | 1.7 | 32 | |
| | 100% | 2 | 120 | 73 | 0.62 A | 1.25 | | 98 | 1.7 | 10 | |
| | 100% | 2 | 277 | 71 | 0.26 A | 1.25 | | 98 | 1.7 | 10 | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.06 | | 80 | 1.7 | 32 | |
| | 3% | 2 | 277 | 14 | 0.06 A | 0.06 | | 80 | 1.7 | 32 | |
| F28T8 | 3% | 2 | 277 | 14 | 0.06 A | 0.06 | | 80 | 1.7 | 32 | |

Safety and performance UL Type 1 Outdoor UL Type HL Product is compliant with material restriction requirements of RoHS FCC – CLASS A Non-Consumer ANSI – C62.41 UL Class P cUL Listed

UL Listed High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty.

UltraStart® T8 100-3% 0-10V 120-277V Programmed Start Dimming T8 Dimming Ballasts

75385 – GE432-MVPS-H-V03

T8 Dimming/UltraStart® T8 100-3% 0-10V Programmed Start Dimming

4 – F32T8 120V-277V High Light 1.18 BF UltraStart® 0-10V Dimming 100-3%

| General characteristics | |
|-------------------------------|-----------------------------------|
| Ballast Type | Electronic – Dimming |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | High |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Thermally protected |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75385 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts |
|----------|------------|------------|
| | 4 | 120 |
| | 4 | 277 |
| | 3 | 120 |
| F32T8 | 3 | 277 |
| | 4 | 120 |
| | 4 | 277 |
| F32T8/WM | 3 | 120 |
| | 3 | 277 |
| | 4 | 120 |
| F28T8 | 4 | 277 |
| | 3 | 120 |
| | 4 | 277 |
| F25T8 | 4 | 120 |
| | 4 | 277 |
| | 3 | 120 |
| F17T8 | 3 | 277 |

- High Efficiency 100-3% 0-10V Programmed Start Dimming
- Multi-Voltage Technology handles voltage from 120 to 277V
- Parallel Lamp Operation - reliable deep dimming performance
- NEMA LL-9 Compliant - GE programmed start life and warranty ratings
- Anti-striation control for use with F32T8/WM or F28T8 Lamps
- UL Type CC rating provides protection against arcing in electrical devices
- UL 55C Ambient Rating - high temperature protection circuit
- Compatible with Class 1 or Class 2 LV 0-10VDC controllers

Dimensions

Wiring diagram – LFL PSD4 see example on page 12-28
Case dimensions – Ref Drawing -A – see page 12-29

| | |
|------------|-------------------|
| Length (L) | 11.75 in (299 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |

| Mounting dimensions | |
|--|------------------|
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Width (X or F) | 1.6 in (40 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 2.4 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 5 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Length (± 1 in) | |
| White and Black | 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Blue/White | 33 in (838 mm) |
| Red/White | 33 in (838 mm) |
| Yellow | 47 in (1194 mm) |
| Violet | 25 in (635 mm) |
| Gray | 25 in (635 mm) |

Safety and performance

Product is compliant with material restriction requirements of RoHS ANSI – C62.41  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer  UL Class P
cUL Listed  UL Listed High Temperature Rated: Suitable for high temperature applications 70°C max case temp 5 yr warranty or 90°C max case temp 3 yr warranty. 

UltraStart® T8 100-3% 0-10V 120-277V Programmed Start Dimming T8 Dimming Ballasts

62044 – GE432MVPS-N-V03W

T8 Dimming/UltraStart® T8 100-3% 0-10V Programmed Start Dimming

3 – F32T8 120V-277V Normal Light .88 BF UltraStart® 0-10V Dimming 100-3%

- High Efficiency 100-3% 0-10V Programmed Start Dimming
- Multi-Voltage Technology handles voltage from 120 to 277V
- Parallel Lamp Operation - reliable deep dimming performance
- NEMA LL-9 Compliant - GE programmed start life and warranty ratings
- Anti-striation control for use with F32T8/WM or F28T8 Lamps
- UL Type CC rating provides protection against arcing in electrical devices
- UL 55C Ambient Rating - high temperature protection circuit
- Compatible with Class 1 or Class 2 LV0-10VDC controllers

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic - Dimming |
| Starting Method | Rapid start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 104°F (40°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Additional Info | Anti-striation control, No PCBs, Thermally protected, Universal voltage |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 62044 | | | |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL PSD3 – see example on page 12-28 | |
| Case dimensions – Ref Drawing - A – see page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.65 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F32T8) | 5 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Length (± 1 in) | |
| White and Black | 25 in (635 mm) |
| Blue and Red | 19 in (483 mm) |
| Red/White | 19 in (483 mm) |
| Yellow | 100 in (2540 mm) |
| Violet | 25 in (635 mm) |
| Gray | 25 in (635 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | | |
|------------------------------------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|------------------|-----------|----------------------------|--|
| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (=) | THD % (=) | Min. Starting Temp (°F/°C) | |
| F32T8 | 100% | 4 | 120 | 87 | 0.71 A | 0.88 | | 98 | 1.7 | 10 | | |
| | 100% | 4 | 277 | 85 | 0.30 A | 0.88 | | 98 | 1.7 | 10 | | |
| | 3% | 3 | 120 | 16 | 0.15 A | 0.03 | | 90 | 1.7 | 32 | | |
| | 3% | 3 | 277 | 16 | 0.07 A | 0.03 | | 90 | 1.7 | 32 | | |
| | 100% | 2 | 120 | 69 | 0.60 A | 0.98 | | 98 | 1.7 | 10 | | |
| | 100% | 2 | 277 | 68 | 0.25 A | 0.98 | | 98 | 1.7 | 10 | | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.05 | | 80 | 1.7 | 32 | | |
| | 3% | 2 | 277 | 14 | 0.06 A | 0.05 | | 80 | 1.7 | 32 | | |
| | 100% | 3 | 120 | 78 | 0.65 A | 0.86 | | 98 | 1.7 | 10 | | |
| | 100% | 3 | 277 | 76 | 0.28 A | 0.86 | | 98 | 1.7 | 10 | | |
| | 3% | 3 | 120 | 16 | 0.15 A | 0.03 | | 90 | 1.7 | 32 | | |
| | 3% | 3 | 277 | 16 | 0.07 A | 0.03 | | 90 | 1.7 | 32 | | |
| F32T8/WM | 100% | 2 | 120 | 66 | 0.55 A | 0.96 | | 98 | 1.7 | 10 | | |
| | 100% | 2 | 277 | 65 | 0.24 A | 0.96 | | 90 | 1.7 | 10 | | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.06 | | 80 | 1.7 | 32 | | |
| | 3% | 2 | 277 | 14 | 0.06 A | 0.06 | | 89 | 1.7 | 32 | | |
| | 100% | 3 | 120 | 74 | 0.60 A | 0.85 | | 98 | 1.7 | 10 | | |
| | 100% | 3 | 277 | 73 | 0.25 A | 0.85 | | 98 | 1.7 | 10 | | |
| | 3% | 3 | 120 | 16 | 0.14 A | 0.03 | | 90 | 1.7 | 32 | | |
| | 3% | 3 | 277 | 16 | 0.07 A | 0.03 | | 90 | 1.7 | 32 | | |
| | 100% | 2 | 120 | 58 | 0.50 A | 0.94 | | 98 | 1.7 | 10 | | |
| | 100% | 2 | 277 | 58 | 0.21 A | 0.94 | | 98 | 1.7 | 10 | | |
| | 3% | 2 | 120 | 14 | 0.12 A | 0.07 | | 80 | 1.7 | 32 | | |
| | 3% | 2 | 277 | 14 | 0.06 A | 0.06 | | 80 | 1.7 | 32 | | |
| F28T8 | 3% | 2 | 277 | 14 | 0.06 A | 0.06 | | 80 | 1.7 | 32 | | |

Safety and performance

Product is compliant with material restriction requirements of RoHS  UL Type 1 Outdoor ANSI – C62.41  UL Type HL FCC – CLASS A Non-Consumer



UltraStart® T5 120–277V Step Dimming Program Start Ballast

T5 Dimming Ballasts

90903 – GE228MVPS-N-S35

T5 Dimming/UltraStart® T5 120-277V

Step Dimming Program Start

2 or 1 F28T5HE lamps

- Line Voltage: Multi-Voltage 120 to 277 VAC, +/-10%, 50/60Hz
- Bi-Level Switching 100 to 35%
- Anti-Striation Control for better light quality, with no striations
- UL55C Ambient Rating – High Temperature Protection Circuit

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Dimming |
| Starting Method | Program start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Additional Info | Anti-striation control, No PCBs, Thermally protected, Universal voltage |

| Electrical characteristics | |
|--------------------------------|-------------|
| Supply Current Frequency (MIN) | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 90903 | | | |

| Dimensions | |
|---|------------------|
| Wiring diagram – LFL-2N/L S30 – see example on page 12-27 | |
| Case dimensions – Ref Drawing -A – see page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30.5 mm) |
| Mounting dimensions | |
| Mount Length (M) | 9.0 in (229 mm) |
| Mount Width (X or F) | 1.0 in (27 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.73 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F24T5H0) | 8 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in) |
| White | 20 in (508 mm) |
| Black | 20 in (508 mm) |
| Red | 26 in (660 mm) |
| Blue | 26 in (660 mm) |
| Yellow | 37 in (940 mm) |

Specifications by lamp and wattage

| Lamp | Light Level | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (=) | THD % (=) | Min. Starting Temp (°F/°C) | | |
|---------|-------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|------------------|-----------|----------------------------|------|------|
| F28T5WM | 2 | 2 | 120 | 60 | 0.53 A | 0.95 | 1.58 | 99 | 1.7 | 10 | 32/0 | | |
| | | 2 | 277 | 58 | 0.22 A | 0.95 | 1.64 | 97 | 1.7 | 10 | 32/0 | | |
| | 1 | 2 | 120 | 30 | 0.25 A | 0.35 | 1.17 | 99 | 1.7 | 10 | 32/0 | | |
| | | 2 | 277 | 30 | 0.11 A | 0.35 | 1.17 | 93 | 1.7 | 20 | 32/0 | | |
| | F28T5HL | 2 | 1 | 120 | 30 | 0.26 A | 0.95 | 3.17 | 99 | 1.7 | 10 | 32/0 | |
| | | | 1 | 277 | 29 | 0.12 A | 0.95 | 3.28 | 92 | 1.7 | 20 | 32/0 | |
| | | 1 | 1 | 120 | 14 | 0.12 A | 0.35 | 2.50 | 99 | 1.7 | 20 | 32/0 | |
| | | | 1 | 277 | 15 | 0.06 A | 0.35 | 2.33 | 82 | 1.7 | 25 | 32/0 | |
| | | F28T5HE | 2 | 2 | 120 | 63 | 0.55 A | 0.95 | 1.50 | 99 | 1.7 | 10 | 32/0 |
| | | | | 2 | 277 | 62 | 0.24 A | 0.95 | 1.53 | 97 | 1.7 | 10 | 32/0 |
| | | | 2 | 2 | 120 | 31 | 0.26 A | 0.35 | 1.13 | 99 | 1.7 | 10 | 32/0 |
| | | | | 2 | 277 | 32 | 0.12 A | 0.35 | 1.09 | 94 | 1.7 | 20 | 32/0 |
| F21T5HE | | | 1 | 1 | 120 | 31 | 0.27 A | 0.95 | 3.06 | 99 | 1.7 | 10 | 32/0 |
| | | | | 1 | 277 | 31 | 0.12 A | 0.95 | 3.06 | 92 | 1.7 | 20 | 32/0 |
| | | | 1 | 1 | 120 | 15 | 0.12 A | 0.35 | 2.33 | 99 | 1.7 | 20 | 32/0 |
| | | | | 1 | 277 | 15 | 0.07 A | 0.35 | 2.33 | 83 | 1.7 | 25 | 32/0 |
| | F21T5HE | | 2 | 2 | 120 | 64 | 0.55 A | 0.95 | 1.48 | 99 | 1.7 | 10 | 32/0 |
| | | | | 2 | 277 | 62 | 0.24 A | 0.95 | 1.53 | 97 | 1.7 | 10 | 32/0 |
| | | | 2 | 2 | 120 | 34 | 0.28 A | 0.35 | 1.03 | 99 | 1.7 | 10 | 32/0 |
| | | | | 2 | 277 | 33 | 0.13 A | 0.35 | 1.06 | 94 | 1.7 | 20 | 32/0 |
| | | F21T5HE | 1 | 1 | 120 | 31 | 0.27 A | 0.95 | 3.06 | 99 | 1.7 | 10 | 32/0 |
| | | | | 1 | 277 | 31 | 0.12 A | 0.95 | 3.06 | 92 | 1.7 | 20 | 32/0 |
| | | | 1 | 1 | 120 | 15 | 0.13 A | 0.35 | 2.33 | 98 | 1.7 | 20 | 32/0 |
| | | | | 1 | 277 | 16 | 0.07 A | 0.35 | 2.19 | 83 | 1.7 | 25 | 32/0 |
| F21T5HE | | | 2 | 2 | 120 | 48 | 0.42 A | 0.95 | 1.98 | 99 | 1.7 | 10 | 32/0 |
| | | | | 2 | 277 | 47 | 0.18 A | 0.95 | 2.02 | 96 | 1.7 | 10 | 32/0 |
| | | | 2 | 2 | 120 | 23 | 0.22 A | 0.35 | 1.52 | 99 | 1.7 | 20 | 32/0 |
| | | | | 2 | 277 | 24 | 0.10 A | 0.35 | 1.46 | 91 | 1.7 | 10 | 32/0 |
| | F21T5HE | | 1 | 1 | 120 | 24 | 0.21 A | 0.95 | 3.96 | 99 | 1.7 | 10 | 32/0 |
| | | | | 1 | 277 | 24 | 0.10 A | 0.95 | 3.96 | 89 | 1.7 | 20 | 32/0 |
| | | | 1 | 1 | 120 | 12 | 0.10 A | 0.35 | 2.92 | 98 | 1.7 | 20 | 32/0 |
| | | | | 1 | 277 | 12 | 0.06 A | 0.35 | 2.92 | 77 | 1.7 | 30 | 32/0 |

Safety and performance

Product is compliant with material restriction requirements of RoHS  UL Type 1 Outdoor  UL Type HL ANSI – C62.41 FCC – CLASS A Non-Consumer
 UL Class P  UL Listed  UL Class CC ANSI – C82.11 Cons 2002 No PCB's

UltraStart® T5 120-277V Step Dimming Program Start Ballast

T5 Dimming Ballasts

90904 – GE224MVPS-N-S35

T5 Dimming/UltraStart® T5 120-277V

Step Dimming Program Start

2 or 1 F24T5HO lamps

- Line Voltage: Multi-Voltage 120 to 277 VAC, +/-10%, 50/60Hz
- Series Lamp Operation
- Bi-Level Switching 100 to 35%
- Programmed Rapid Start
- Active Power Factor Correction

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Dimming |
| Starting Method | Program start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 131°F (55°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Anti-striation control, No PCBs, Thermally protected, Universal voltage |

| Electrical characteristics | |
|--------------------------------|--------------|
| Supply Current Frequency (MIN) | 50 Hz/ 60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 90904 | | | |

| Dimensions | |
|---|------------------|
| Wiring diagram – LFL-2N/L S30 – see example on page 12-27 | |
| Case dimensions – Ref Drawing – A – see page 12-29 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30.5 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.45 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp (F24T5HO) | 8 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Length (± 1 in) | |
| White | 18 in (457 mm) |
| Black | 18 in (457 mm) |
| Red | 18 in (457 mm) |
| Blue | 18 in (457 mm) |
| Yellow | 26 in (660 mm) |

| Specifications by lamp and wattage | | | | | | | | | | | | | | | |
|------------------------------------|-------------|------------|--------------|------|-------------------|--------|-----------------------|-------------------------|------|---------------------|------|-------------------|-----------|------|---------------------------|
| Lamp | Light Level | # of Lamps | System Watts | | Nom. Line Current | | System Ballast Factor | Ballast Efficacy Factor | | Power Factor % (<=) | | Crest Factor (<=) | THD% (<=) | | Min Starting Temp (°F/°C) |
| | | | 120V | 277V | 120V | 277V | | 120V | 277V | 120V | 277V | | 120V | 277V | |
| F24T5/HO | 100% | 2 | 51 | 50 | 0.44 A | 0.19 A | 1.00 | 1.97 | 2.02 | 99 | 97 | 1.7 | 10 | 10 | 0/-18 |
| | 35% | 2 | 23 | 23 | 0.19 A | 0.09 A | 0.35 | 1.54 | 1.52 | 99 | 90 | 1.7 | 10 | 20 | 0/-18 |
| | 100% | 1 | 27 | 27 | 0.24 A | 0.11 A | 1.00 | 3.73 | 3.73 | 99 | 91 | 1.7 | 10 | 20 | 32/0 |
| | 35% | 1 | 12 | 12 | 0.10 A | 0.06 A | 0.35 | 2.97 | 2.82 | 98 | 78 | 1.7 | 20 | 30 | 32/0 |
| FT24W/2G11 | 100% | 2 | 51 | 50 | 0.44 A | 0.19 A | 1.00 | 1.96 | 2.00 | 99 | 97 | 1.7 | 10 | 10 | 32/0 |
| | 35% | 2 | 24 | 24 | 0.20 A | 0.10 A | 0.35 | 1.44 | 1.43 | 99 | 91 | 1.7 | 10 | 20 | 32/0 |
| | 100% | 1 | 27 | 27 | 0.24 A | 0.11 A | 1.00 | 3.71 | 3.72 | 99 | 91 | 1.7 | 10 | 20 | 32/0 |
| | 35% | 1 | 13 | 13 | 0.11 A | 0.06 A | 0.35 | 2.77 | 2.65 | 98 | 80 | 1.7 | 20 | 30 | 32/0 |
| FT36W/2G11 | 100% | 1 | 35 | 35 | 0.31 A | 0.14 A | 1.00 | 2.85 | 2.88 | 99 | 94 | 1.7 | 10 | 20 | 32/0 |
| | 35% | 1 | 16 | 16 | 0.13 A | 0.07 A | 0.35 | 2.24 | 2.18 | 99 | 84 | 1.7 | 20 | 25 | 32/0 |
| | 100% | 1 | 40 | 39 | 0.35 A | 0.15 A | 1.00 | 2.49 | 2.54 | 99 | 95 | 1.7 | 10 | 20 | 32/0 |
| F39T5/HO | 35% | 1 | 17 | 17 | 0.14 A | 0.07 A | 0.35 | 2.08 | 2.05 | 99 | 85 | 1.7 | 10 | 25 | 32/0 |

Safety and performance

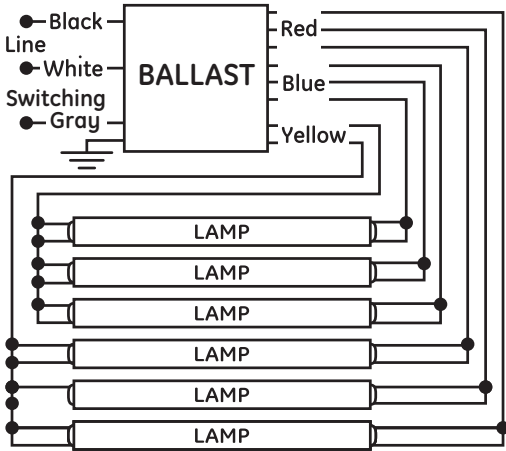
Product is compliant with material restriction requirements of RoHS  UL Type 1 Outdoor  UL Type HL ANSI – C62.41 FCC – CLASS A Non-Consumer  UL Class P  UL Listed  UL Class CC ANSI – C82.11 Cons 2002

For N-1 operation individually insulate each unused blue lamp lead for 600 Vrms. Install and Ground Per National Electric Code

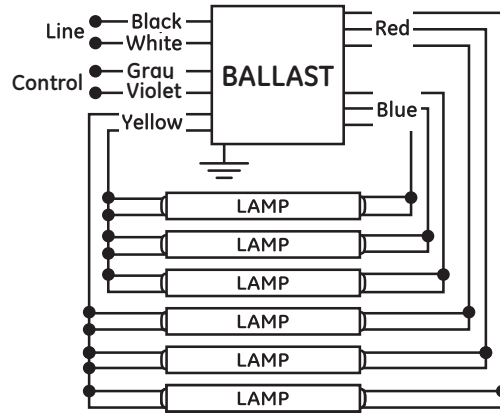
Wiring Diagrams

T8 Dimming Ballasts

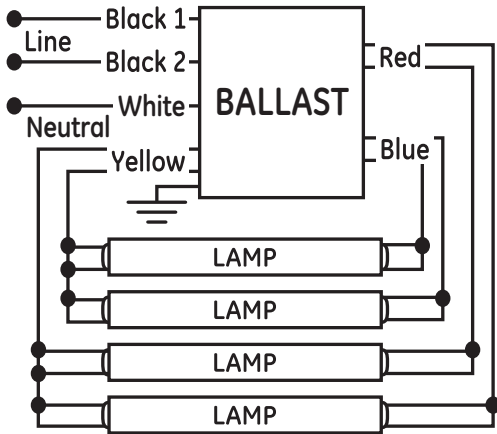
LFL -6H S60



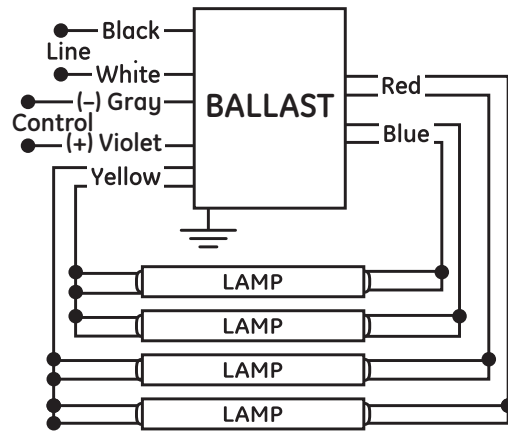
LFL -6H V60



LFL -4H S60



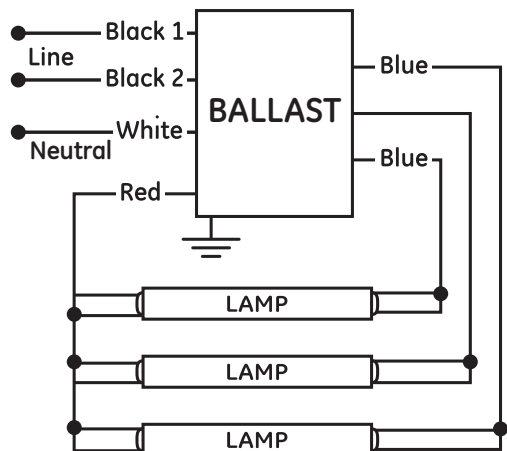
LFL -4H V60



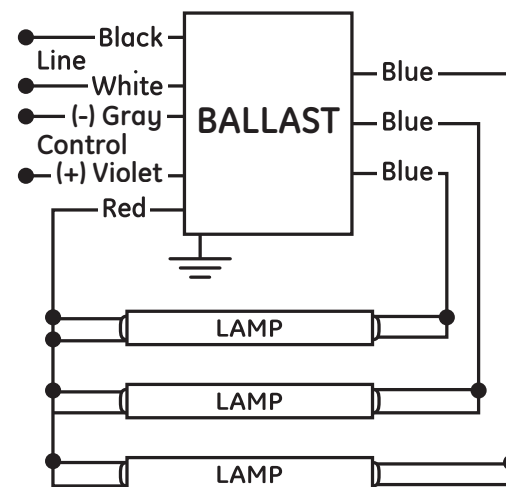
Wiring Diagrams

T8 Dimming Ballasts

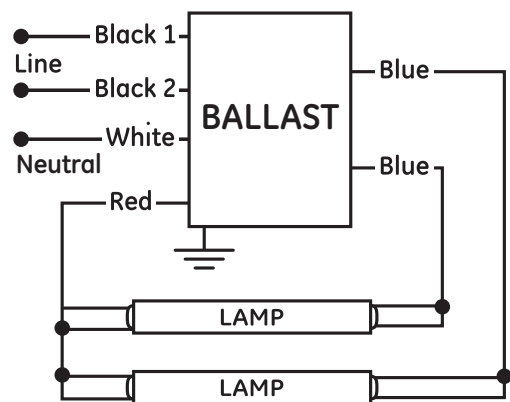
LFL -3H S60



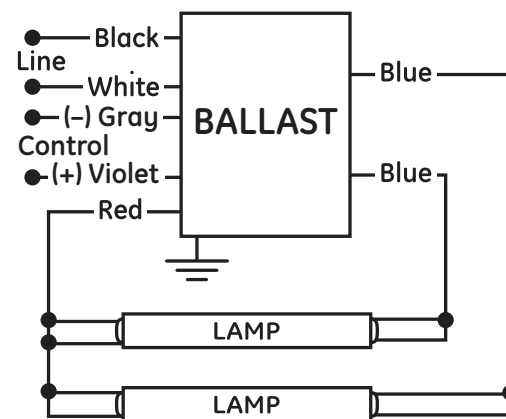
LFL -3H V60



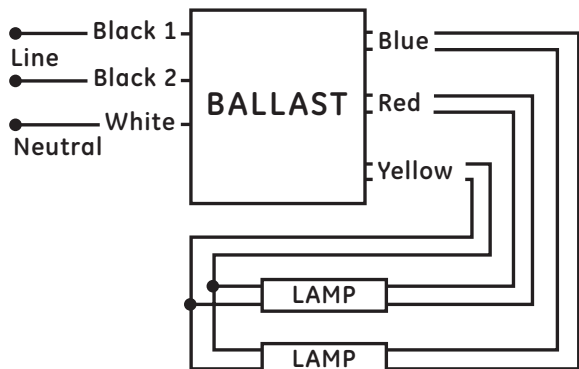
LFL -2H S60



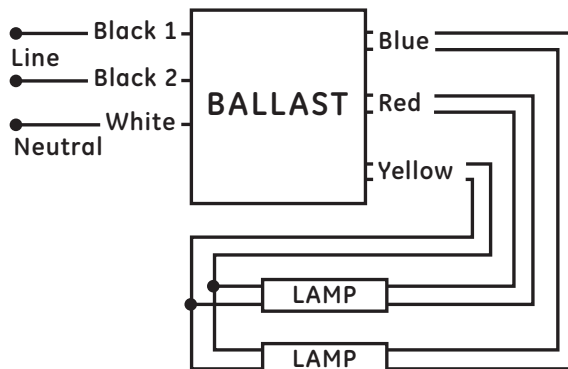
LFL -2H V60



LFL - 1N S30



LFL - 2N/L S30



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

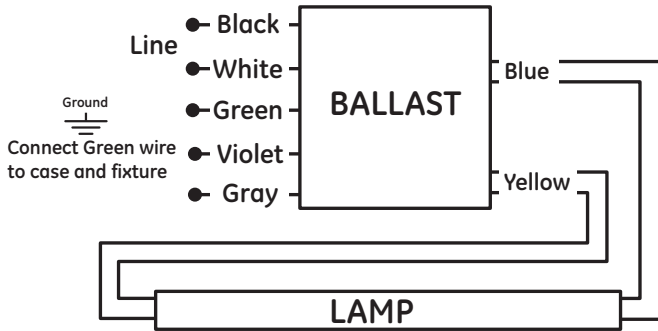
Compact Fluorescent

HID Electronic & Electromagnetic

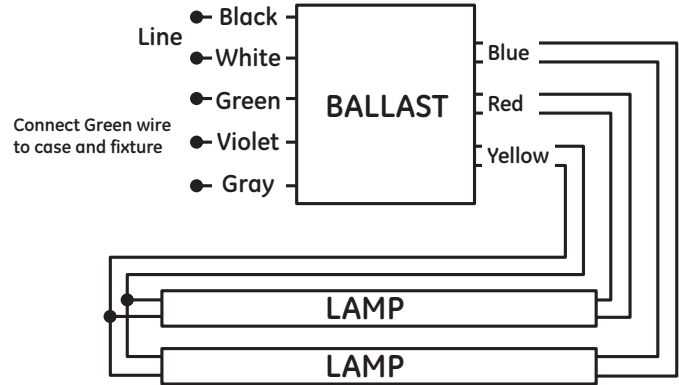
Wiring Diagrams

T8 Dimming Ballasts

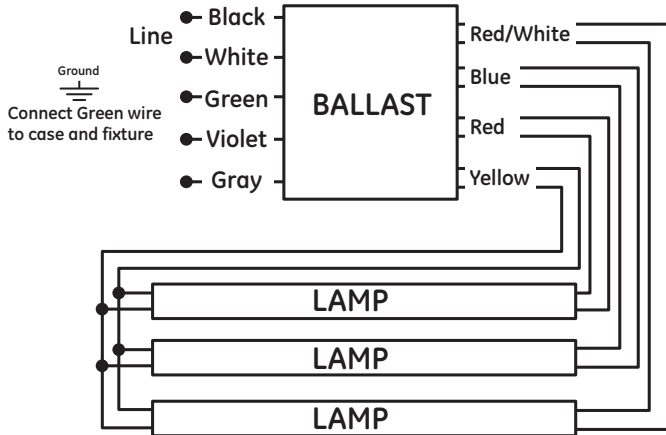
LFL PSD1



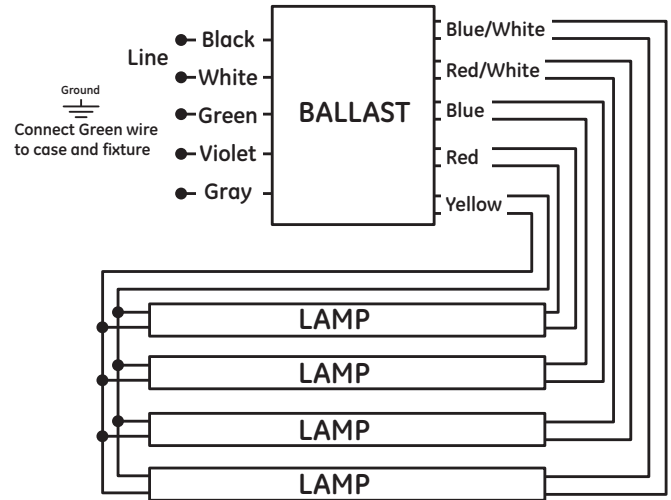
LFL PSD2



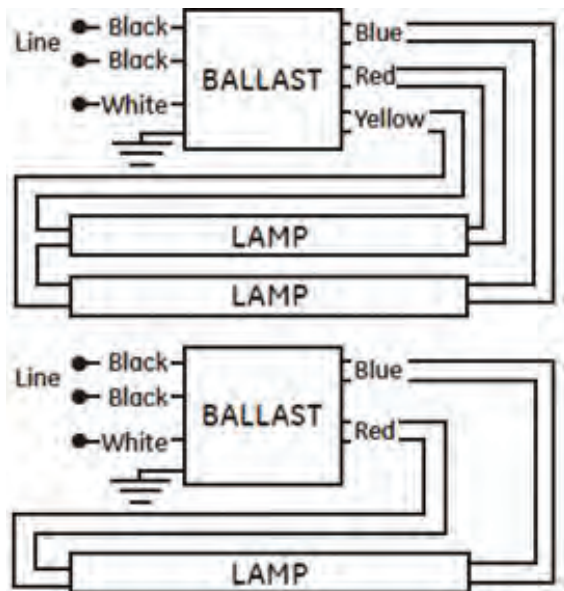
LFL PSD3



LFL PSD4



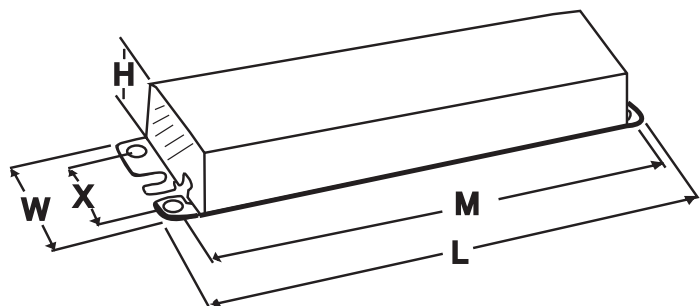
LFL PSD5



Case Dimensions

T8 Dimming Ballasts

-A



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

Table of Contents

T5 Electronic Programmed Start Ballasts

Understanding T5 Electronic Programmed Start Ballasts 13-2

T5 High Efficiency – Rapid Start 120V Residential Ballast
 For F13T5, F14T5, F21T5 and F28T5 13-3

T5 High Efficiency – Programmed Start
 For F14 (2 ft), F21 (3 ft), F28 (4 ft),
 F35 (5 ft) HE T5 Lamps* 13-4

T5 High Output – Programmed Start
 For T5 HO Lamps* 13-5

T5 Watt-Miser Electronic Program / Rapid Start Ballast.....13-11

Step Down Transformers13-15

Wiring Diagrams.....13-17

Case Dimensions13-19

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic



Understanding T5 Electronic Programmed Start Ballasts

UltraStart® T5 programmed start ballasts for T5 fluorescent lamps.

GE has developed a line of T5 ballasts that incorporate the benefits of programmed start ballasts with the energy savings, fast starting and parallel lamp operation of instant start ballasts. GE's UltraStart® T5 ballasts use low energy loss, high efficiency components along with continuous cathode cutout (CCC) technology—resulting in 8 fewer watts than standard 4-lamp 54 watt T5 ballasts. GE's UltraStart® T5 ballasts offer a 44% improvement over standard T5 ballasts and a new industry threshold for high efficiency ballasts.

The GE UltraStart® Watt-Miser® T5 Lamp and Ballast System Advantage

- 18 watts lower than standard 4-lamp, 54 watt T5 systems with the same light output
- Operates lamps in parallel (which means if one lamp fails, the other lamps remain on)
 - significantly reduces lamp maintenance costs
- Fast starting programmed start ballast < 700 milliseconds compared to standard T5 at > 1.1 to 1.5 seconds

GE UltraStart® T5 programmed start ballasts use a control circuit to apply very precise cathode heat to ensure lamp cathodes have reached optimum temperature during lamp starting. Precise starting reduces the amount of cathode degradation associated with each start and increases lamp life significantly. After starting the lamps, continuous cathode cutout technology (CCC) is applied—which eliminates wasted power to the lamps, resulting in high efficiencies. GE UltraStart® systems also have the advantage of operating lamps in parallel. Parallel (versus series) lamp operation ballasts typically reduce spot relamping costs by 50% or extend group relamping by 15% or more due to average lamp mortality early failures.

T5 Lamps

GE T5 lamps can be electrically characterized into two groups:

High Efficiency (HE) Lamps (F14T5, F21T5, F28T5, F35T5 – standard, high-lumen and Watt-Miser®)

These lamps are high efficiency (HE), delivering around 100 lumens per watt and, while operating at the same lamp arc current, can be operated on the same ballast if the ballast system power and starting voltage are appropriate for the lamp load.

High Output (HO) Lamps (F24T5, F39T5, F54T5, F49T5, F80T5 – standard and Watt-Miser®)

These lamps are driven for high light output and are slightly less efficient (LPW) than HE lamps. They have unique lamp arc currents and starting voltages by wattage that require a specific ballast for each HO lamp wattage.



T5 High Efficiency – Rapid Start 120V Residential Ballast

T5 Electronic Programmed Start For F13T5, F14T5, F21T5 and F28T5

78518 - GE21T5-120-RES

T5 High Efficiency - Rapid Start

Electronic ballast for (1) F21T5; or (1) F14T5; or (1) F13T5




- Line Voltage: 120 VAC, 60Hz
- Lamp End of Life Protection
- Rapid Start

| General characteristics | |
|----------------------------|--------------|
| Starting Temperature (MIN) | -18°C (0°F) |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 75°C (167°F) |
| Sound Rating | A |
| Starting time | 0.5s<t<2s |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1a – see example on page 13-18 | |
| Case dimensions – Ref Drawing - | |
| Length (L) | 5.9 in (150 mm) |
| Width (W) | 0.93 in (24 mm) |
| Height (H) | 0.75 in (19 mm) |
| Mounting dimensions | |
| Mount Length (M) | 5.6 in (143 mm) |
| Weight | 0.29 lbs |
| Lead lengths Length (± 1 in) | |
| Black/White | 12 in (305 mm) |
| Blue | 31 in (787 mm) |
| Red | 19 in (483 mm) |

| Specifications by lamp and wattage | | | | | | | |
|------------------------------------|------------|------------|-------------|----------------|---------------------|-------------------|----------------------------|
| Lamp | # of Lamps | Line Volts | Input Watts | Nom. Line Amps | Power Factor % (>=) | Crest Factor (<=) | Min. Starting Temp (°F/°C) |
| F21T5 | 1 | 120 | 21 | 0.33 | 0.50 | 1.7 | 0/-18 |
| F14T5 | 1 | 120 | 16 | 0.26 | 0.50 | 1.7 | 0/-18 |
| F13T5 | 1 | 120 | 16 | 0.26 | 0.50 | 1.7 | 0/-18 |

Safety and performance

 UL/cUL Listed
  UL/cUL Listed Class P
  UL/cUL Listed Type 1 Outdoor
 Meets FCC Part 18 Consumer Limits
 Meets ANSI Standard C62.41-2002
 OCV 300V Product is compliant with material restriction requirements of RoHS Meets November 14 DOE standards No PCB's

78811 - GE28T5-120-RES

T5 High Efficiency - Rapid Start

Electronic ballast for (1) F28T5; or (1) F21T5; or (1) F14T5




- Line Voltage: 120 VAC, 60Hz
- Lamp End of Life Protection
- Rapid Start
- Series Lamp Operation

| General characteristics | |
|----------------------------|--------------|
| Starting Temperature (MIN) | -18°C (0°F) |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 75°C (167°F) |
| Sound Rating | A |
| Starting time | 0.8s<t<1.3s |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 1b – see example on page 13-18 | |
| Case dimensions – Ref Drawing - | |
| Length (L) | 5.9 in (150 mm) |
| Width (W) | 0.93 in (24 mm) |
| Height (H) | 0.75 in (19 mm) |
| Mounting dimensions | |
| Mount Length (M) | 5.6 in (143 mm) |
| Weight | 0.29 lbs |
| Lead lengths Length (± 1 in) | |
| Black/White | 19 in (483 mm) |
| Blue | 31 in (787 mm) |
| Red | 19 in (483 mm) |

| Specifications by lamp and wattage | | | | | | | |
|------------------------------------|------------|------------|-------------|----------------|---------------------|-------------------|----------------------------|
| Lamp | # of Lamps | Line Volts | Input Watts | Nom. Line Amps | Power Factor % (>=) | Crest Factor (<=) | Min. Starting Temp (°F/°C) |
| F28T5 | 1 | 120 | 30.5 | 0.475 | 0.50 | 1.7 | 0/-18 |
| F21T5 | 1 | 120 | 24.3 | 0.39 | 0.50 | 1.7 | 0/-18 |
| F14T5 | 2 | 120 | 30.5 | 0.47 | 0.50 | 1.7 | 0/-18 |

Safety and performance

 UL/cUL Listed
  UL/cUL Listed Class P
  UL/cUL Listed Type 1 Outdoor
 Meets FCC Part 18 Consumer Limits
 Meets ANSI Standard C62.41-2002
 OCV 300V Product is compliant with material restriction requirements of RoHS Meets November 14 DOE standards No PCB's Type HL

80021 - GE28T5/2-120-RES

T5 High Efficiency - Rapid Start

Electronic ballast for (2) F28T5; or (2) F21T5; or (2) F14T5




- Line Voltage: 120 VAC, 60Hz
- Lamp End of Life Protection
- Rapid Start
- Normal Power Factor Correction

| General characteristics | |
|----------------------------|------------------------------|
| Starting Temperature (MIN) | -18°C (0°F) |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 75°C (167°F) |
| Sound Rating | A |
| Remote Mounting | 18 ft max Lead Length, 18AWG |

| Dimensions | |
|--|-------------------|
| Wiring diagram – LFL 2a – see example on page 13-18 | |
| Case dimensions – Ref Drawing - | |
| Length (L) | 9 in (230 mm) |
| Width (W) | 0.88 in (22.5 mm) |
| Height (H) | 0.88 in (22.5 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.75 in (222 mm) |
| Weight | 0.67 lbs |
| Lead lengths Length (± 1 in) | |
| Black/White | 18 in (457 mm) |
| Blue | 27 in (686 mm) |
| Red | 27 in (686 mm) |
| Yellow | 27 in (686 mm) |

| Specifications by lamp and wattage | | | | | | | |
|------------------------------------|------------|------------|-------------|----------------|---------------------|-------------------|----------------------------|
| Lamp | # of Lamps | Line Volts | Input Watts | Nom. Line Amps | Power Factor % (>=) | Crest Factor (<=) | Min. Starting Temp (°F/°C) |
| F28T5 | 2 | 120 | 60 | 0.96 | 0.50 | 1.7 | 0/-18 |
| F21T5 | 2 | 120 | 44 | 0.78 | 0.50 | 1.7 | 0/-18 |
| F14T5 | 2 | 120 | 31 | 0.62 | 0.50 | 1.7 | 0/-18 |

Safety and performance

 UL/cUL Listed
  UL/cUL Listed Class P
  UL/cUL Listed Type 1 Outdoor
 Meets FCC Part 18 Consumer Limits
 Meets ANSI Standard C62.41-2002
 OCV 300V Product is compliant with material restriction requirements of RoHS Meets November 14 DOE standards No PCB's Meets Energy Star Version 1.0 Type HL

T5 High Efficiency – Programmed Start

T5 Electronic Programmed Start For F14 (2 ft), F21 (3 ft), F28 (4 ft), F35 (5 ft) HE T5 Lamps*

68994 – GE228MVPS-MC-H (replaces 99653)

T5 High Efficiency - UltraStart® Programmed Start

2 – F21-F28T5HE, 120 to 277 UltraStart® PRS High Light 1.15 BF A Can

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 131°F (55°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | High (1.15) |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Additional Info | Auto-restart, End-of-Life Protection (EOL), Thermally protected, Universal voltage, Anti-striation control |

| Electrical characteristics | |
|----------------------------|----------|
| Supply Current Frequency | 50/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 68994 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F28T5HE | 2 | 277 | 71 | 0.26 A | 1.15 | 1.61 | 99 | 1.4 | 6 | 0/-18 |
| | 2 | 120 | 73 | 0.61 A | 1.15 | 1.57 | 99 | 1.4 | 6 | 0/-18 |
| | 2 | 277 | 69 | 0.25 A | 1.16 | 1.68 | 99 | 1.4 | 6 | 0/-18 |
| F28T5HL | 2 | 120 | 73 | 0.61 A | 1.16 | 1.59 | 99 | 1.4 | 7 | 0/-18 |
| | 2 | 277 | 69 | 0.25 A | 1.12 | 1.63 | 98 | 1.4 | 6 | 32/0 |
| | 2 | 120 | 71 | 0.59 A | 1.12 | 1.58 | 99 | 1.4 | 7 | 32/0 |
| F28T5WM | 2 | 277 | 56 | 0.21 A | 1.24 | 2.21 | 98 | 1.4 | 7 | 32/0 |
| | 2 | 120 | 57 | 0.48 A | 1.24 | 2.18 | 99 | 1.4 | 7 | 32/0 |

Safety and performance UL Type CC UL Type 1 Outdoor UL Listed UL Type HL FCC – CLASS A Non-Consumer UL Class P Meets ANSI Standard C62.41-1991
Product is compliant with material restriction requirements of RoHS Meets ANSI Standard C82.11- cons 2002 No PCB's

68993 – GE228MVPS-MC (replaces 99655)

T5 High Efficiency - UltraStart® Programmed Start

2 or 1 – F14-F28T5HE, 120 – 277 UltraStart® PRS Normal Light - .95 BF A Can

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 131°F (55°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A [20-24 decibels] |
| Additional Info | Auto-restart, End-of-Life Protection (EOL), Thermally protected, Universal voltage, Anti-striation control |

| Electrical characteristics | |
|----------------------------|----------|
| Supply Current Frequency | 50/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 68993 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F28T5HE | 2 | 277 | 60 | 0.22 A | 0.96 | 1.60 | 99 | 1.4 | 6 | 0/-18 |
| | 1 | 277 | 41 | 0.16 A | 1.21 | 2.95 | 97 | 1.4 | 9 | 0/-18 |
| | 2 | 120 | 62 | 0.53 A | 0.96 | 1.55 | 99 | 1.4 | 7 | 0/-18 |
| | 1 | 120 | 41 | 0.35 A | 1.21 | 2.95 | 99 | 1.4 | 8 | 0/-18 |
| | 2 | 277 | 60 | 0.23 A | 0.96 | 1.60 | 98 | 1.4 | 6 | 32/0 |
| | 1 | 277 | 41 | 0.15 A | 1.21 | 2.95 | 97 | 1.4 | 10 | 32/0 |
| F28T5HL | 2 | 120 | 62 | 0.52 A | 0.96 | 1.55 | 99 | 1.4 | 7 | 32/0 |
| | 1 | 120 | 41 | 0.35 A | 1.21 | 2.95 | 99 | 1.4 | 8 | 32/0 |
| | 2 | 277 | 58 | 0.22 A | 0.98 | 1.69 | 98 | 1.4 | 6 | 32/0 |
| F28T5WM | 2 | 120 | 59 | 0.50 A | 0.98 | 1.66 | 99 | 1.4 | 7 | 32/0 |
| | 2 | 277 | 50 | 0.18 A | 1.04 | 2.08 | 98 | 1.4 | 7 | 32/0 |
| F21T5HE | 2 | 120 | 51 | 0.43 A | 1.04 | 2.04 | 99 | 1.4 | 8 | 32/0 |
| | 2 | 277 | 37 | 0.14 A | 1.10 | 2.97 | 97 | 1.4 | 10 | 32/0 |
| F14T5HE | 2 | 120 | 37 | 0.32 A | 1.10 | 2.97 | 99 | 1.4 | 9 | 32/0 |
| | 2 | 277 | 36 | 0.13 A | 1.10 | 3.06 | 97 | 1.4 | 11 | 32/0 |
| F14T5WM | 2 | 120 | 36 | 0.30 A | 1.10 | 3.06 | 99 | 1.4 | 9 | 32/0 |

Safety and performance UL Type CC UL Type 1 Outdoor UL Listed UL Type HL FCC – CLASS A Non-Consumer UL Class P UL Listed Meets ANSI Standard C62.41-1991
Product is compliant with material restriction requirements of RoHS Meets ANSI Standard C82.11- cons 2002 No PCB's

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- Multi-Voltage technology means a single ballast handles voltage from 108V to 305V
- Auto-Restart withstands temporary losses in power without the need to cycle power

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 4a – see example on page 13-17 | |
| Case dimensions – Ref Drawing - A Can – see page 13-19 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.0 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 8 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (+ 1 in) |
| White and Black | 20 in (508 mm) |
| Blue and Red | 26 in (660 mm) |
| Yellow | 37 in (940 mm) |

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- Multi-Voltage technology means a single ballast handles voltage from 108V to 305V
- Auto-Restart withstands temporary losses in power without the need to cycle power

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 4a – see example on page 13-17 | |
| Case dimensions – Ref Drawing - A Can – see page 13-19 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.4 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.0 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 8 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (+ 1 in) |
| White and Black | 20 in (508 mm) |
| Blue and Red | 26 in (660 mm) |
| Yellow | 37 in (940 mm) |

T5 High Output – Programmed Start

T5 Electronic Programmed Start For T5 HO Lamps*

68976 – GE224MVPS-N

T5 High Output - Programmed Start

2 – F24T5HO PRS UNV 50/60 Hz C Can

- Electronic ballasts for all general fluorescent applications
- Extends lamp life in frequently switched applications
- Reduced lamp replacement cost; ideal for use with occupancy sensors

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 131°F (55°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, End-of-Life Protection (EOL), Thermally protected, Universal voltage |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 68976 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| F24T5HO | 2 | 277 | 50 | 0.18 A | 0.98 | 1.96 | 98 | 1.4 | 5 | 0/-18 |
| | 1 | 277 | 32 | 0.11 A | 1.14 | 3.56 | 96 | 1.4 | 6 | 0/-18 |
| | 2 | 120 | 51 | 0.42 A | 0.98 | 1.92 | 99 | 1.4 | 6 | 0/-18 |
| | 1 | 120 | 32 | 0.27 A | 1.14 | 3.56 | 99 | 1.4 | 7 | 0/-18 |
| | 2 | 277 | 47 | 0.17 A | 1.09 | 2.32 | 98 | 1.4 | 5 | 32/0 |
| | 1 | 277 | 29 | 0.11 A | 1.20 | 4.14 | 96 | 1.4 | 6 | 32/0 |
| FT24W/2G11 | 2 | 120 | 48 | 0.40 A | 1.09 | 2.27 | 99 | 1.4 | 6 | 32/0 |
| | 1 | 120 | 29 | 0.24 A | 1.20 | 4.14 | 99 | 1.4 | 7 | 32/0 |
| | 1 | 277 | 36 | 0.13 A | 1.13 | 3.14 | 97 | 1.4 | 5 | 32/0 |
| FT36W/2G11 | 1 | 120 | 37 | 0.31 A | 1.13 | 3.05 | 99 | 1.4 | 6 | 32/0 |
| | 1 | 277 | 46 | 0.17 A | 1.08 | 2.35 | 98 | 1.4 | 5 | 32/0 |
| F39T5/HO | 1 | 120 | 47 | 0.39 A | 1.08 | 2.30 | 99 | 1.4 | 6 | 32/0 |

Safety and performance UL Type 1 Outdoor UL Type HL FCC - CLASS A Non-Consumer UL Class P UL Listed No PCB's UL Type CC ANSI Standard C82.11 - Cons 2002
ANSI Standard C62.41 - 1991 Product is compliant with material restriction requirements of RoHs

47540 – B239PUNV-DOG1C

T5 High Output - Programmed Start

2 – F39T5HO PRS UNV 50/60 Hz D Can

- Electronic ballasts for all general fluorescent applications
- Extends lamp life in frequently switched applications
- Reduced lamp replacement cost; ideal for use with occupancy sensors

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, End-of-Life Protection (EOL), Thermally protected, Universal voltage |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 47540 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| F39T5/HO | 2 | 120 | 89 | 0.74 A | 0.98 | 1.10 | | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 88 | 0.32 A | 0.98 | 1.11 | | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 47 | 0.39 A | 0.98 | 2.08 | | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 47 | 0.17 A | 0.95 | 2.02 | | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 71 | 0.59 A | 0.98 | 1.38 | 97 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 70 | 0.25 A | 0.95 | 1.35 | 97 | 1.7 | 10 | 0/-18 |
| FT39W/4P | 1 | 120 | 38 | 0.31 A | 0.98 | 2.57 | | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 38 | 0.14 A | 0.90 | 2.36 | | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 59 | 0.51 A | 0.98 | 1.66 | | 1.7 | 10 | 0/-18 |
| F24T5/HO | 2 | 277 | 59 | 0.22 A | 0.95 | 1.61 | | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 32 | 0.26 A | 0.98 | 3.06 | | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 32 | 0.12 A | 0.90 | 2.81 | | 1.7 | 10 | 0/-18 |

Safety and performance UL Type 1 Outdoor UL Type HL FCC - CLASS A Non-Consumer UL Class P CSA UL Listed

T5 High Output – Programmed Start

T5 Electronic Programmed Start For T5 HO Lamps*

67562 – GE254MVPS90-A

T5 High Output - UltraStart® Programmed Start

2 or 1 – F54T5HO 120 to 277V UltraStart® PRS High Temp A Can





| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Programmed / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 131°F (55°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, End-of-Life Protection (EOL), Thermally protected, Universal voltage, Anti-striation control |

| Electrical characteristics | |
|----------------------------|----------|
| Supply Current Frequency | 50/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 67562 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F54T5HO | 2 | 120 | 117 | 0.98 | 1.00 | 0.85 | 1.00 | 1.4 | 4.4 | -20/-29 |
| | 2 | 277 | 114 | 0.41 | 1.10 | 0.96 | 0.99 | 1.4 | 5.4 | -20/-29 |
| | 1 | 120 | 63 | 0.53 | 1.00 | 1.59 | 1.00 | 1.4 | 6.4 | -20/-29 |
| | 1 | 277 | 62 | 0.23 | 1.10 | 1.77 | 0.97 | 1.4 | 6.6 | -20/-29 |
| F54T5WM | 2 | 120 | 109 | 0.90 | 1.00 | 0.92 | 1.00 | 1.4 | 4.6 | 0/-18 |
| | 2 | 277 | 107 | 0.40 | 1.12 | 1.05 | 0.99 | 1.4 | 5.2 | 0/-18 |
| | 1 | 120 | 61 | 0.51 | 1.00 | 1.64 | 1.00 | 1.4 | 6.7 | 0/-18 |
| | 1 | 277 | 60 | 0.22 | 1.12 | 1.87 | 0.97 | 1.4 | 7.7 | 0/-18 |
| F54T5/47W | 2 | 120 | 105 | 0.88 | 1.00 | 0.95 | 1.00 | 1.4 | 4.8 | -20/-29 |
| | 2 | 277 | 104 | 0.40 | 1.10 | 1.06 | 0.99 | 1.4 | 5.3 | -20/-29 |
| | 1 | 120 | 58 | 0.48 | 1.00 | 1.72 | 1.00 | 1.4 | 6.9 | -20/-29 |
| | 1 | 277 | 57 | 0.22 | 1.10 | 1.93 | 0.96 | 1.4 | 8.0 | -20/-29 |
| F58T8 | 2 | 120 | 110 | 0.90 | 0.95 | 0.86 | 1.00 | 1.4 | 4.7 | -20/-29 |
| | 2 | 277 | 107 | 0.39 | 0.95 | 0.89 | 0.99 | 1.4 | 5.4 | -20/-29 |
| | 1 | 120 | 59 | 0.49 | 1.08 | 1.83 | 1.00 | 1.4 | 6.6 | -20/-29 |
| | 1 | 277 | 59 | 0.22 | 1.08 | 1.83 | 0.96 | 1.4 | 7.3 | -20/-29 |
| FT55W/4P | 2 | 120 | 116 | 0.97 | 0.86 | 0.74 | 1.00 | 1.4 | 4.9 | 0/-18 |
| | 2 | 277 | 112 | 0.41 | 0.86 | 0.77 | 0.99 | 1.4 | 5.4 | 0/-18 |
| | 1 | 120 | 61 | 0.51 | 1.03 | 1.69 | 1.00 | 1.4 | 6.8 | 0/-18 |
| | 1 | 277 | 60 | 0.23 | 1.03 | 1.72 | 0.97 | 1.4 | 8.0 | 0/-18 |
| FT50W/4P | 2 | 120 | 118 | 1.00 | 1.05 | 0.89 | 1.00 | 1.4 | 4.6 | 0/-18 |
| | 2 | 277 | 116 | 0.43 | 1.06 | 0.91 | 0.99 | 1.4 | 5.2 | 0/-18 |
| | 1 | 120 | 64 | 0.53 | 1.18 | 1.84 | 1.00 | 1.4 | 6.6 | 0/-18 |
| FT50W/4P | 1 | 277 | 63 | 0.24 | 1.18 | 1.87 | 0.97 | 1.4 | 7.4 | 0/-18 |

Safety and performance

 UL Type 1 Outdoor
  UL Type CC
  UL Listed Meets ANSI Standard G62.41-1991
  UL Class P Meets ANSI Standard C82.11- cons 2002
 FCC – CLASS A Non-Consumer Product is compliant with material restriction requirements of RoHS
 High Temperature Rated: Suitable for high temperature applications 80°C max case temp 5 yr warranty.

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- Multi-Voltage technology means a single ballast handles voltage from 108V to 305V
- Auto-Restart withstands temporary losses in power without the need to cycle power

| Dimensions | |
|---|-------------------|
| Wiring diagram – LFL 4a (One lamp operation) & T51 – see example on page 13-18 | |
| Case dimensions – Ref Drawing - F – see page 13-19 | |
| Length (L) | 9.5 in (241.3 mm) |
| Width (W) | 1.7 in (43.2 mm) |
| Height (H) | 1.2 in (30.5 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Slots (MS) | 0.25 in (6 mm) |
| Weight | 1.50 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 12 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| White and Black | 25 in (635 mm) |
| Blue and Red | 34 in (864 mm) |
| Yellow | 45 in (1143 mm) |

T5 High Output – Programmed Start

T5 Electronic Programmed Start For T5 HO Lamps*

33957 - GE254MVPS-D-1

T5 High Output - UltraStart® Programmed Start

2 or 1 – F54T5HO 120 to 277V UltraStart® PRS High Temp D Can

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Fast Starting Time <700ms
- Multi-Voltage technology means a single ballast handles voltage from 108V to 305V
- Auto-Restart withstands temporary losses in power without the need to cycle power
- Anti-Striation Control for better light quality, with no striations.
- Cold temperature -20°F Minimum Starting Temperature



| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic -Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 40°C (104°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, End of Life Protection (EOL), Thermally protected, Universal voltage |

| Dimensions | |
|--|------------------|
| Wiring diagram – LFL 4a – see example on page 13-17 | |
| Case dimensions – Ref Drawing -A Can – see page 13-19 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.0 in (25.5 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 0.9 in (22 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.1 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

| Electrical characteristics | |
|----------------------------|----------|
| Supply Current Frequency | 50/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 33957 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F54T5/47W | 2 | 120 | 106 | 0.93 A | 1.00 | 0.94 | 99 | 1.7 | 5 | -20/-29 |
| | 2 | 277 | 105 | 0.40 A | 1.00 | 0.95 | 98 | 1.7 | 8 | -20/-29 |
| | 1 | 120 | 67 | 0.60 A | 0.13 | 0.19 | 99 | 1.5 | 6 | -20/-29 |
| | 1 | 277 | 67 | 0.26 A | 1.13 | 1.69 | 98 | 1.5 | 8 | -20/-29 |
| F54T5/49W | 2 | 120 | 106 | 0.88 A | 0.99 | 0.93 | 98 | 1.7 | 10 | -20/-29 |
| | 2 | 277 | 105 | 0.38 A | 0.98 | 0.95 | 97 | 1.7 | 10 | -20/-29 |
| | 1 | 120 | 53 | 0.44 A | 0.90 | 1.70 | 99 | 1.7 | 10 | -20/-29 |
| | 1 | 277 | 58 | 0.21 A | 1.04 | 1.70 | 90 | 1.7 | 10 | -20/-29 |
| F54T5/HO | 2 | 120 | 120 | 1.00 A | 1.00 | 0.84 | 98 | 1.7 | 10 | -20/-29 |
| | 2 | 277 | 117 | 0.43 A | 1.00 | 0.85 | 97 | 1.7 | 10 | -20/-29 |
| | 1 | 120 | 62 | 0.52 A | 1.03 | 1.46 | 98 | 1.7 | 10 | -20/-29 |
| | 1 | 277 | 62 | 0.23 A | 1.03 | 1.49 | 90 | 1.7 | 10 | -20/-29 |
| F54T5/WM | 2 | 120 | 112 | 0.94 A | 1.00 | 0.89 | 99 | 1.7 | 5 | 0/-18 |
| | 2 | 277 | 111 | 0.41 A | 1.00 | 0.90 | 98 | 1.7 | 8 | 0/-18 |
| | 1 | 120 | 71 | 0.59 A | 1.13 | 1.59 | 99 | 1.5 | 6 | 0/-18 |
| | 1 | 277 | 71 | 0.26 A | 1.13 | 1.59 | 98 | 1.5 | 8 | 0/-18 |
| F58T8 | 2 | 120 | 108 | 0.91 A | 0.95 | 0.88 | 99 | 1.6 | 7 | -20/-29 |
| | 2 | 277 | 105 | 0.38 A | 0.95 | 0.90 | 98 | 1.6 | 8 | -20/-29 |
| | 1 | 120 | 69 | 0.58 A | 1.09 | 1.58 | 99 | 1.6 | 7 | -20/-29 |
| | 1 | 277 | 69 | 0.25 A | 1.09 | 1.58 | 97 | 1.6 | 11 | -20/-29 |
| FT39W/4P | 2 | 120 | 89 | 0.75 A | 1.17 | 1.31 | 99 | 1.6 | 7 | -20/-29 |
| | 2 | 277 | 84 | 0.31 A | 1.17 | 1.39 | 98 | 1.6 | 9 | -20/-29 |
| | 1 | 120 | 55 | 0.46 A | 1.29 | 2.35 | 99 | 1.6 | 7 | -20/-29 |
| | 1 | 277 | 55 | 0.21 A | 1.28 | 2.33 | 96 | 1.6 | 15 | -20/-29 |
| FT50W/4P | 2 | 120 | 118 | 1.01 A | 1.12 | 0.85 | 98 | 1.7 | 10 | -20/-29 |
| | 2 | 277 | 115 | 0.43 A | 1.12 | 0.91 | 98 | 1.7 | 10 | -20/-29 |
| | 1 | 120 | 61 | 0.52 A | 1.15 | 1.58 | 98 | 1.7 | 10 | -20/-29 |
| | 1 | 277 | 61 | 0.23 A | 1.15 | 1.61 | 90 | 1.7 | 10 | -20/-29 |
| FT55W/4P | 2 | 120 | 112 | 0.94 A | 0.91 | 0.80 | 98 | 1.7 | 10 | -20/-29 |
| | 2 | 277 | 109 | 0.4 A | 0.91 | 0.80 | 98 | 1.7 | 10 | -20/-29 |
| | 1 | 120 | 58 | 0.51 A | 0.93 | 1.49 | 98 | 1.7 | 10 | -20/-29 |
| | 1 | 277 | 58 | 0.22 A | 0.93 | 1.51 | 90 | 1.7 | 10 | -20/-29 |

Safety and performance Product is compliant with material restriction requirements of RoHS  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer ANSI-C62.41-1991

ANSI-C82.11-Cons 2002  UL Class P  UL Type CC  UL Listed  CSA

High Temperature Rated: Suitable for high temperature applications 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty

T5 High Output – Programmed Start

T5 Electronic Programmed Start For T5 HO Lamps*

94131 – GE454MVPS90-E-S (replaces 73192)

T5 High Output - UltraStart® Programmed Start

4/2 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Multi-Voltage technology means a single ballast handles voltage from 108V to 305V
- Auto-Restart withstands temporary losses in power without the need to cycle power
- UltraCool® Operation 90°C case rating
- Anti-Striation Control for better light quality, with no striations.
- Individual lamp End of Lamp Life protection - only one lamp shuts down at end of life.
- Cold temperature -20F Minimum Starting Temperature
- The ballast should have the step dimming features and be able to provide 50% input power (+/-15%) in the dimming mode by shutdown 2 of the 4 lamps.

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic - Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, End of Life Protection (EOL), Thermally protected |

| Electrical characteristics | |
|----------------------------|------------|
| Supply Current Frequency | 50Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 94131 | | | |

| Dimensions | |
|---|-------------------|
| Wiring diagram – LFL 4c – see example on page 13-17 | |
| Case dimensions – Ref Drawing – G Can – see page 13-19 | |
| Length (L) | 16.7 in (424 mm) |
| Width (W) | 1.7 in (41 mm) |
| Height (H) | 1.2 in (30.5 mm) |
| Mounting dimensions | |
| Mount Length (M) | 16.1 in (410 mm) |
| Weight | 2.73 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 12 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Length (± 1 in.) | |
| Black/White | 25.0 in (635 mm) |
| Blue | 34.0 in (864 mm) |
| Blue/White | 34.0 in (864 mm) |
| Gray | 25.0 in (635 mm) |
| Orange | 47.0 in (1195 mm) |
| Red | 34.0 in (864 mm) |
| Red/White | 34.0 in (864 mm) |
| Yellow | 47.0 in (1195 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F54T5/HO | 4 | 277 | 222 | 0.84 A | 1.00 | 0.45 | 99 | 1.7 | 4 | -20/-29 |
| | 3 | 277 | 171 | 0.66 A | 1.01 | 0.59 | 99 | 1.7 | 5 | -20/-29 |
| | 2 | 277 | 114 | 0.44 A | 1.00 | 0.87 | 98 | 1.7 | 8 | -20/-29 |
| | 4 | 120 | 227 | 2.02 A | 0.99 | 0.44 | 99 | 1.7 | 6 | -20/-29 |
| | 3 | 120 | 174 | 1.59 A | 0.99 | 0.57 | 99 | 1.7 | 7 | -20/-29 |
| | 2 | 120 | 114 | 1.02 A | 1.00 | 0.87 | 99 | 1.7 | 8 | -20/-29 |
| | 4 | 277 | 204 | 0.76 A | 1.00 | 0.49 | 99 | 1.7 | 4 | -20/-29 |
| | 3 | 277 | 160 | 0.61 A | 1.00 | 0.62 | 99 | 1.7 | 6 | -20/-29 |
| | 2 | 277 | 105 | 0.39 A | 1.00 | 0.95 | 98 | 1.7 | 7 | -20/-29 |
| | 4 | 120 | 208 | 1.83 A | 1.00 | 0.48 | 99 | 1.7 | 4 | -20/-29 |
| | 3 | 120 | 162 | 1.44 A | 1.00 | 0.62 | 99 | 1.7 | 7 | -20/-29 |
| | 2 | 120 | 105 | 0.92 A | 1.00 | 0.95 | 99 | 1.7 | 9 | -20/-29 |
| F54T5/47W | 4 | 277 | 210 | 0.76 A | 1.03 | 0.49 | 99 | 1.7 | 4 | -20/-29 |
| | 3 | 277 | 164 | 0.61 A | 1.03 | 0.63 | 99 | 1.7 | 5 | -20/-29 |
| | 2 | 277 | 109 | 0.39 A | 1.03 | 0.95 | 98 | 1.7 | 7 | -20/-29 |
| | 4 | 120 | 215 | 1.83 A | 1.04 | 0.48 | 99 | 1.7 | 6 | -20/-29 |
| | 3 | 120 | 166 | 1.44 A | 1.04 | 0.63 | 99 | 1.7 | 7 | -20/-29 |
| | 2 | 120 | 109 | 0.92 A | 1.05 | 0.97 | 99 | 1.7 | 9 | -20/-29 |
| | 4 | 277 | 211 | 0.78 A | 1.01 | 0.48 | 99 | 1.7 | 4 | -20/-29 |
| | 3 | 277 | 165 | 0.63 A | 1.02 | 0.62 | 99 | 1.7 | 5 | -20/-29 |
| | 2 | 277 | 109 | 0.41 A | 1.04 | 0.95 | 98 | 1.7 | 7 | -20/-29 |
| | 4 | 120 | 216 | 1.89 A | 1.04 | 0.48 | 99 | 1.7 | 6 | -20/-29 |
| | 3 | 120 | 168 | 1.49 A | 1.03 | 0.61 | 99 | 1.7 | 7 | -20/-29 |
| | 2 | 120 | 109 | 0.96 A | 1.03 | 0.94 | 99 | 1.7 | 9 | -20/-29 |
| F54T5/WM | 4 | 277 | 208 | 0.77 A | | 0.00 | 99 | 1.7 | 4 | -20/-29 |
| | 3 | 277 | 161 | 0.61 A | | 0.00 | 99 | 1.7 | 6 | -20/-29 |
| | 2 | 277 | 107 | 0.40 A | | 0.00 | 98 | 1.7 | 8 | -20/-29 |
| | 4 | 120 | 213 | 1.85 A | | 0.00 | 99 | 1.7 | 6 | -20/-29 |
| | 3 | 120 | 164 | 1.44 A | | 0.00 | 99 | 1.7 | 7 | -20/-29 |
| | 2 | 120 | 107 | 0.94 A | | 0.00 | 99 | 1.7 | 9 | -20/-29 |
| | 4 | 277 | 210 | 0.77 A | 0.92 | 0.44 | 99 | 1.7 | 4 | 0/-18 |
| | 3 | 277 | 162 | 0.62 A | 0.91 | 0.56 | 99 | 1.7 | 5 | 0/-18 |
| | 2 | 277 | 109 | 0.40 A | 0.92 | 0.85 | 98 | 1.7 | 7 | 0/-18 |
| | 4 | 120 | 215 | 1.87 A | 0.91 | 0.42 | 99 | 1.7 | 6 | 0/-18 |
| | 3 | 120 | 165 | 1.47 A | 0.91 | 0.55 | 99 | 1.7 | 7 | 0/-18 |
| | 2 | 120 | 109 | 0.93 A | 0.93 | 0.85 | 99 | 1.7 | 9 | 0/-18 |
| FT55W/2G11 | 4 | 277 | 219 | 0.83 A | 0.90 | 0.41 | 99 | 1.7 | 4 | 0/-18 |
| | 3 | 277 | 170 | 0.66 A | 0.90 | 0.53 | 99 | 1.7 | 5 | 0/-18 |
| | 2 | 277 | 112 | 0.43 A | 0.90 | 0.80 | 98 | 1.7 | 8 | 0/-18 |
| | 4 | 120 | 224 | 2.01 A | 0.89 | 0.40 | 99 | 1.7 | 6 | 0/-18 |
| | 3 | 120 | 172 | 1.57 A | 0.89 | 0.52 | 99 | 1.7 | 7 | 0/-18 |
| | 2 | 120 | 112 | 1.00 A | 0.90 | 0.80 | 99 | 1.7 | 9 | 0/-18 |

Safety and performance

Product is compliant with material restriction requirements of RoHS  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer ANSI-C62.41-1991

ANSI-C82.11-Cons 2002  UL Class P  UL Type CC  UL Listed  cUL Listed No PCB's For one lamp operation, safety only DOE 2014 ballast rule - 10 CFR Part 430

High Temperature Rated: Suitable for high temperature applications 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty

T5 High Output – Programmed Start

T5 Electronic Programmed Start For T5 HO Lamps*

67566 – GE454MVPS90-F (replaces 77114)

T5 High Output - UltraStart® Programmed Start

4-1 – F54T5HO 120 to 277 UltraStart® PS F Can

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- Multi-Voltage technology means a single ballast handles voltage from 108V to 305V
- Auto-Restart withstands temporary losses in power without the need to cycle power
- Anti-Striation Control for better light quality, with no striations
- 90°C case rating/UL Approved 55C Ambient Rating
- Individual lamp End of Lamp Life protection - only one lamp shuts down at end of life
- Cold temperature -20°F Minimum Starting Temperature

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic - Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, End of Life Protection (EOL), Thermally protected |

| Dimensions | |
|--|-------------------|
| Wiring diagram – LFL PS4- see example on page 13-18 | |
| Case dimensions – Ref Drawing - E Can – see page 13-19 | |
| Length (L) | 11.75 in (298 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 16.7 in (424 mm) |
| Weight | 2.79 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 8 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in.) |
| Black | 25.0 in (635 mm) |
| White | 25.0 in (635 mm) |

| Electrical characteristics | |
|----------------------------|------------|
| Supply Current Frequency | 50Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 65766 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| FT55W/4P | 4 | 120 | 206 | 1.73 A | 0.86 | 0.42 | 99 | 1.4 | 5 | 0/-18 |
| | 4 | 277 | 203 | 0.75 A | 0.86 | 0.42 | 97 | 1.4 | 8 | 0/-18 |
| | 3 | 120 | 168 | 1.41 A | 0.91 | 0.54 | 99 | 7.0 | 6 | 0/-18 |
| | 3 | 277 | 168 | 0.63 A | 0.91 | 0.54 | 97 | 1.4 | 10 | 0/-18 |
| | 2 | 120 | 125 | 1.04 A | | | 99 | 1.4 | 7 | 0/-18 |
| | 2 | 277 | 124 | 0.48 A | | | 94 | 1.4 | 16 | 0/-18 |
| | 1 | 120 | 64 | 0.54 A | | | 99 | 1.4 | 10 | 0/-18 |
| | 1 | 277 | 66 | 0.28 A | | | 84 | 1.4 | 25 | 0/-18 |
| | 4 | 120 | 222 | 1.86 A | 1.06 | 0.48 | 99 | 1.4 | 5 | 0/-18 |
| | 4 | 277 | 218 | 0.81 A | 1.06 | 0.49 | 98 | 1.4 | 8 | 0/-18 |
| | 3 | 120 | 187 | 1.56 A | 1.11 | 0.59 | 99 | 1.4 | 6 | 0/-18 |
| | 3 | 277 | 184 | 0.68 A | 1.11 | 0.60 | 97 | 1.4 | 9 | 0/-18 |
| FT50W/4P | 2 | 120 | 130 | 1.09 A | | | 99 | 1.4 | 7 | 0/-18 |
| | 2 | 277 | 130 | 0.50 A | | | 95 | 1.4 | 15 | 0/-18 |
| | 1 | 120 | 72 | 0.60 A | | | 99 | 1.4 | 10 | 0/-18 |
| | 1 | 277 | 73 | 0.31 A | | | 85 | 1.4 | 26 | 0/-18 |
| | 4 | 120 | 208 | 1.73 A | 0.95 | 0.46 | 99 | 1.4 | 5 | -20/-29 |
| | 4 | 277 | 204 | 0.76 A | 0.95 | 0.47 | 97 | 1.4 | 9 | -20/-29 |
| | 3 | 120 | 176 | 1.47 A | 0.99 | 0.56 | 99 | 1.4 | 6 | -20/-29 |
| | 3 | 277 | 173 | 0.65 A | 0.99 | 0.57 | 94 | 1.4 | 10 | -20/-29 |
| | 2 | 120 | 128 | 1.07 A | | | 99 | 1.4 | 7 | -20/-29 |
| | 2 | 277 | 127 | 0.49 A | | | 94 | 1.4 | 16 | -20/-29 |
| | 1 | 120 | 67 | 0.57 A | | | 99 | 1.4 | 10 | -20/-29 |
| | 1 | 277 | 68 | 0.29 A | | | 85 | 1.4 | 25 | -20/-29 |
| F58T8 | 4 | 120 | 214 | 1.79 A | 1.00 | 0.47 | 99 | 1.4 | 5 | 0/-18 |
| | 4 | 277 | 210 | 0.78 A | 1.00 | 0.48 | 98 | 1.4 | 8 | 0/-18 |
| | 3 | 120 | 181 | 1.51 A | 1.01 | 0.56 | 99 | 1.4 | 6 | 0/-18 |
| | 3 | 277 | 178 | 0.66 A | 1.01 | 0.57 | 97 | 1.4 | 9 | 0/-18 |
| | 2 | 120 | 130 | 1.09 A | 0.96 | 0.74 | 99 | 1.4 | 7 | 0/-18 |
| | 2 | 277 | 135 | 0.51 A | 0.96 | 0.71 | 95 | 1.4 | 15 | 0/-18 |
| | 1 | 120 | 69 | 0.58 A | 1.12 | 1.62 | 99 | 1.4 | 10 | 0/-18 |
| | 1 | 277 | 70 | 0.30 A | 1.12 | 1.60 | 85 | 1.4 | 26 | 0/-18 |
| | 4 | 120 | 220 | 1.84 A | 1.00 | 0.45 | 99 | 1.4 | 5 | -20/-29 |
| | 4 | 277 | 216 | 0.80 A | 1.00 | 0.46 | 98 | 1.4 | 8 | -20/-29 |
| | 3 | 120 | 185 | 1.55 A | 1.01 | 0.55 | 99 | 1.4 | 6 | -20/-29 |
| | 3 | 277 | 182 | 0.68 A | 1.01 | 0.55 | 97 | 1.4 | 9 | -20/-29 |
| F54T5/WM | 2 | 120 | 133 | 0.58 A | 0.96 | 0.72 | 99 | 1.4 | 7 | -20/-29 |
| | 2 | 277 | 132 | 0.50 A | 0.96 | 0.72 | 95 | 1.4 | 15 | -20/-29 |
| | 1 | 120 | 69 | 0.58 A | 1.11 | 1.61 | 99 | 1.4 | 10 | -20/-29 |
| | 1 | 277 | 70 | 0.30 A | 1.11 | 1.59 | 85 | 1.4 | 26 | -20/-29 |

Safety and performance Product is compliant with material restriction requirements of RoHS UL Type 1 Outdoor UL Type HL FCC – CLASS A Non-Consumer ANSI-C62.41-1991

ANSI-C82.11-Cons 2002 UL Class P UL Type CC UL Listed CSA

High Temperature Rated: Suitable for high temperature applications 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty

T5 High Output – Programmed Start

T5 Electronic Programmed Start For T5 HO Lamps*

72280 – GE180MVPS-D

T5 High Output - UltraStart® Programmed Start

1 – F80T5HO 120 to 277 UltraStart® PRS D Can

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- Multi-Voltage technology means a single ballast handles voltage from 108V to 305V
- Auto-Restart withstands temporary losses in power without the need to cycle power
- Anti-Striation Control for better light quality, with no striations.
- Cold temperature -20°F Minimum Starting Temperature

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic - Program / Rapid Start |
| Starting Method | Programmed start |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, End of Life Protection (EOL), Thermally protected, Universal voltage |

Dimensions

Wiring diagram – LFL PS1b – see example on page 13-18

Case dimensions – Ref Drawing - D Can – see page 13-19

| | |
|----------------------------------|------------------|
| Length (L) | 16.7 in (424 mm) |
| Width (W) | 1.18 in (30 mm) |
| Height (H) | 1.0 in (25 mm) |
| Mounting dimensions | |
| Mount Length (M) | 16.4 in (417 mm) |
| Weight | 1.85 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 8 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Electrical characteristics

| | |
|--------------------------|------------|
| Supply Current Frequency | 50Hz/60 Hz |
|--------------------------|------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 72280 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|---------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F80T5HO | 1 | 120 | 93 | 0.78 A | 1.00 | 1.08 | 99 | 1.6 | 5 | -20/-29 |
| | 1 | 277 | 91 | 0.34 A | 1.00 | 1.10 | 98 | 1.6 | 8 | -20/-29 |

Safety and performance

Product is compliant with material restriction requirements of RoHS  UL Type 1 Outdoor  UL Type HL FCC – CLASS A Non-Consumer ANSI-C62.41-1991

ANSI-C82.11-Cons 2002



T5 Watt-Miser Electronic Program / Rapid Start Ballast

T5 Electronic Programmed Start

62728 – GE254PS347/480-F

T5 High Output - UltraStart® Programmed Rapid Start

2 or 1 – F54T5HO 347 to 480V PS High Temperature F Can LFL

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- GE 3-Stage 3G Transient Suppression - Meets IEEE/ANSI C Low line to line transient capability up to 6KV
- Auto-Restart withstands temporary losses in power without the need to cycle power
- Anti-Striation Control for better light quality, with no striations.
- 90°C case rating/UL Approved 55C Ambient Rating
- Individual lamp End of Lamp Life protection - only one lamp shuts down at end of life
- Cold temperature -20°F Minimum Starting Temperature

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Program / Rapid Start |
| Starting Method | Programmed Rapid Start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal Can |
| Additional Info | Lamp End-of-Life Safety Shutdown Circuit/Auto-restart/ Anti-striation control |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 62728 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F54T5/HO | 2 | 347 | 118 | 0.36 A | 1.00 | 1.69 | 98 | 1.4 | 5 | -22/-30 |
| | 2 | 480 | 118 | 0.26 A | 1.00 | 1.69 | 99 | 1.4 | 6 | -22/-30 |
| | 1 | 347 | 73 | 0.22 A | 1.10 | 1.37 | 98 | 1.4 | 5 | -22/-30 |
| | 1 | 480 | 73 | 0.16 A | 1.10 | 1.37 | 96 | 1.4 | 8 | -22/-30 |
| | 2 | 347 | 113 | 0.33 A | 1.06 | 1.77 | 99 | 1.4 | 5 | 0/-18 |
| | 2 | 480 | 114 | 0.24 A | 1.06 | 1.75 | 97 | 1.4 | 6 | 0/-18 |
| FT50W/2G11 | 1 | 347 | 69 | 0.20 A | 1.18 | 1.45 | 98 | 1.4 | 5 | 0/-18 |
| | 1 | 480 | 69 | 0.15 A | 1.18 | 1.45 | 95 | 1.4 | 8 | 0/-18 |
| | 2 | 347 | 113 | 0.33 A | 1.00 | 1.77 | 99 | 1.4 | 5 | 0/-18 |
| | 2 | 480 | 113 | 0.24 A | 1.00 | 1.77 | 97 | 1.4 | 6 | 0/-18 |
| | 1 | 347 | 69 | 0.20 A | 1.12 | 1.45 | 98 | 1.4 | 6 | 0/-18 |
| | 1 | 480 | 69 | 0.15 A | 1.12 | 1.43 | 95 | 1.4 | 8 | 0/-18 |
| F54T5/WM | 2 | 347 | 109 | 0.32 A | 0.86 | 1.83 | 99 | 1.4 | 5 | 0/-18 |
| | 2 | 480 | 109 | 0.24 A | 0.86 | 1.83 | 97 | 1.4 | 6 | 0/-18 |
| | 1 | 347 | 68 | 0.20 A | 1.03 | 1.47 | 98 | 1.4 | 6 | 0/-18 |
| | 1 | 480 | 68 | 0.15 A | 1.03 | 1.47 | 95 | 1.4 | 8 | 0/-18 |
| | 2 | 347 | 107 | 0.31 A | 1.00 | 1.87 | 99 | 1.4 | 5 | 0/-18 |
| | 2 | 480 | 107 | 0.23 A | 1.00 | 1.87 | 97 | 1.4 | 6 | 0/-18 |
| F54T5/49W | 1 | 347 | 65 | 0.19 A | 1.10 | 1.56 | 98 | 1.4 | 5 | 0/-18 |
| | 1 | 480 | 65 | 0.14 A | 1.10 | 1.54 | 95 | 1.4 | 8 | 0/-18 |
| | 2 | 347 | 104 | 0.31 A | 1.00 | 1.92 | 99 | 1.4 | 5 | 0/-18 |
| | 2 | 480 | 104 | 0.22 A | 1.00 | 1.92 | 97 | 1.4 | 6 | 0/-18 |
| | 1 | 347 | 63 | 0.19 A | 1.10 | 1.59 | 98 | 1.4 | 6 | 0/-18 |
| | 1 | 480 | 64 | 0.14 A | 1.10 | 1.56 | 95 | 1.4 | 8 | 0/-18 |
| F54T5/47W | 2 | 347 | 101 | 0.33 A | 0.95 | 1.98 | 99 | 1.4 | 5 | -22/-30 |
| | 2 | 480 | 10 | 0.24 A | 0.95 | 1.98 | 97 | 1.4 | 6 | -22/-30 |
| | 1 | 347 | 68 | 0.20 A | 1.08 | 1.47 | 98 | 1.4 | 6 | -22/-30 |
| | 1 | 480 | 69 | 0.15 A | 1.08 | 1.45 | 95 | 1.4 | 6 | -22/-30 |

| Dimensions | |
|--|-------------------|
| Wiring diagram – LFL 4a – see example on page 13-17 | |
| Case dimensions – Ref Drawing – F Can – see page 13-19 | |
| Length (L) | 11.8 in (298 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.1 in (282 mm) |
| Weight | 2.15 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 12 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in.) |
| Black | 25.0 in (635 mm) |
| Black/White | 25.0 in (635 mm) |
| Blue | 34.0 in (864 mm) |
| Red | 34.0 in (864 mm) |
| Yellow | 45.0 in (1143 mm) |

Safety and performance

Product is compliant with material restriction requirements of RoHS UL Type 1 Outdoor UL Type HL FCC – CLASS A Non-Consumer ANSI-C62.41-1991 ANSI-C82.11-Cons 2002
 ANSI-C62.41-2002 UL Class P UL Type CC UL 55C Ambient Approved CSA
 High Temperature Rated: Suitable for high temperature applications No PCB's 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty

Ballasts
T8 Instant Start
T8 Programmed Start
T8/T5 Dimming
T5 Electronic Programmed Start
T12 Electronic & High Output
Magnetic
Sign
Compact Fluorescent
HID Electronic & Electromagnetic

T5 Watt-Miser Electronic Program / Rapid Start Ballast

T5 Electronic Programmed Start

62729 – GE254PS347-F

T5 High Output - UltraStart® Programmed Rapid Start

2 or 1 – F54T5HO 347V F Can LFL

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- Auto-Restart withstands temporary losses in power without the need to cycle power
- Anti-Striation Control for better light quality, with no striations.
- 90°C case rating/UL Approved 55C Ambient Rating
- Individual lamp End of Lamp Life protection - only one lamp shuts down at end of life
- Cold temperature -20°F Minimum Starting Temperature

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic - Program / Rapid Start |
| Starting Method | Programmed Rapid Start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal Can |
| Additional Info | Lamp End-of-Life Safety Shutdown Circuit/Auto-restart/ Anti-striation control |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 62729 | | | |

Dimensions

Wiring diagram - LFL 4a- see example on page 13-17

Case dimensions - Ref Drawing - F Can - see page 13-19

| | |
|------------|------------------|
| Length (L) | 11.8 in (298 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |

Mounting dimensions

| | |
|------------------|------------------|
| Mount Length (M) | 11.1 in (282 mm) |
| Weight | 2.15 lbs |
| Exit Type | Side |

| | |
|----------------------------------|--------|
| Remote Mounting Distance to Lamp | 12 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths





| Lead lengths | Length (± 1 in.) |
|--------------|-------------------|
| Black | 25.0 in (635 mm) |
| Black/White | 25.0 in (635 mm) |
| Blue | 34.0 in (864 mm) |
| Red | 34.0 in (864 mm) |
| Yellow | 45.0 in (1143 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (*F/*C) |
|------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F54T5/HO | 2 | 347 | 118 | 0.36 A | 1.00 | 1.69 | 99 | 1.4 | 5 | -22/-30 |
| | 1 | 347 | 73 | 0.22 A | 1.10 | 1.37 | 98 | 1.4 | 5 | -22/-30 |
| FT50W/2G11 | 2 | 347 | 113 | 0.33 A | 1.06 | 1.77 | 99 | 1.4 | 5 | 0/-18 |
| | 1 | 347 | 69 | 0.20 A | 1.18 | 1.45 | 98 | 1.4 | 5 | 0/-18 |
| F54T5/WM | 2 | 347 | 113 | 0.33 A | 1.00 | 1.77 | 99 | 1.4 | 5 | -22/-30 |
| | 1 | 347 | 69 | 0.20 A | 1.12 | 1.45 | 98 | 1.4 | 6 | -22/-30 |
| FT55W/4P | 2 | 347 | 109 | 0.32 A | 0.86 | 1.83 | 99 | 1.4 | 5 | 0/-18 |
| | 1 | 347 | 68 | 0.20 A | 1.03 | 1.47 | 98 | 1.4 | 6 | 0/-18 |
| F54T5/49W | 2 | 347 | 107 | 0.31 A | 1.00 | 1.87 | 99 | 1.4 | 5 | 0/-18 |
| | 1 | 347 | 64 | 0.19 A | 1.10 | 1.56 | 98 | 1.4 | 6 | 0/-18 |
| F54T5/47W | 2 | 347 | 104 | 0.31 A | 1.00 | 1.92 | 99 | 1.4 | 5 | 0/-18 |
| | 1 | 347 | 63 | 0.19 A | 1.10 | 1.59 | 98 | 1.4 | 6 | 0/-18 |
| F58T8 | 2 | 347 | 101 | 0.33 A | 0.95 | 1.98 | 99 | 1.4 | 5 | -22/-30 |
| | 1 | 347 | 68 | 0.20 A | 1.08 | 1.47 | 98 | 1.4 | 6 | -22/-30 |

Safety and performance

Product is compliant with material restriction requirements of RoHS  UL Type 1 Outdoor  UL Type HL FCC - CLASS A Non-Consumer ANSI-C62.41-1991 ANSI-C82.11-Cons 2002

ANSI-C62.41-2002  UL Class P  UL Type CC  UL 55C Ambient Approved  CSA

High Temperature Rated: Suitable for high temperature applications No PCB's 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty

TT5 Watt-Miser Electronic Program / Rapid Start Ballast

T5 Electronic Programmed Start

62730 – GE454PS347/480-E

T5 High Output - UltraStart® Programmed Rapid Start

4-1 - F54T5HO 347 to 480V High Temperature E Can LFL

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- GE 3-Stage 3G Transient Suppression - Meets IEEE/ANSI C Low line to line transient capability up to 6KV
- Auto-Restart withstands temporary losses in power without the need to cycle power
- Anti-Striation Control for better light quality, with no striations.
- 90°C case rating/UL Approved 55C Ambient Rating
- Individual lamp End of Lamp Life protection - only one lamp shuts down at end of life
- Cold temperature -20°F Minimum Starting Temperature

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Program / Rapid Start |
| Starting Method | Programmed Rapid Start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A(20-24 decibels) |
| Enclosure Type | Metal Can |
| Additional Info | Lamp End-of-Life Safety Shutdown Circuit/Auto-restart/ Anti-striation control |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 8 Pack | Pallet Pack | DIY Pack | IP Pack |
| 62730 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|----------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F54T5/HO | 4 | 347 | 229 | 0.68 A | 1.00 | 1.75 | 99 | 1.4 | 5 | -22/-30 |
| | 4 | 480 | 228 | 0.49 A | 1.00 | 1.75 | 98 | 1.4 | 7 | -22/-30 |
| | 3 | 347 | 176 | 0.53 A | 1.01 | 1.70 | 99 | 1.4 | 5 | -22/-30 |
| | 3 | 480 | 177 | 0.38 A | 1.01 | 1.69 | 98 | 1.4 | 8 | -22/-30 |
| | 2 | 347 | 125 | 0.37 A | 0.96 | 1.60 | 99 | 1.4 | 7 | -22/-30 |
| | 2 | 480 | 125 | 0.27 A | 0.96 | 1.60 | 96 | 1.4 | 12 | -22/-30 |
| | 1 | 347 | 68 | 0.21 A | 1.12 | 1.47 | 94 | 1.4 | 16 | -22/-30 |
| | 1 | 480 | 69 | 0.18 A | 1.12 | 1.45 | 81 | 1.4 | 35 | -22/-30 |
| | 4 | 347 | 227 | 0.68 A | 1.06 | 1.76 | 99 | 1.4 | 5 | 0/-18 |
| | 4 | 480 | 226 | 0.49 A | 1.06 | 1.77 | 98 | 1.4 | 7 | 0/-18 |
| | 3 | 347 | 177 | 0.53 A | 1.11 | 1.69 | 99 | 1.4 | 5 | 0/-18 |
| | 3 | 480 | 177 | 0.38 A | 1.11 | 1.69 | 98 | 1.4 | 8 | 0/-18 |
| FT50W/4P | 2 | 347 | 126 | 0.37 A | 1.59 | 1.59 | 99 | 1.4 | 6 | 0/-18 |
| | 2 | 480 | 126 | 0.28 A | 1.59 | 1.59 | 96 | 1.4 | 12 | 0/-18 |
| | 1 | 347 | 69 | 0.22 A | 1.47 | 1.47 | 94 | 1.4 | 16 | 0/-18 |
| | 1 | 480 | 69 | 0.19 A | 1.45 | 1.45 | 80 | 1.4 | 34 | 0/-18 |
| | 4 | 347 | 221 | 0.66 A | 0.86 | 1.81 | 99 | 1.4 | 5 | 0/-18 |
| | 4 | 480 | 220 | 0.47 A | 0.86 | 1.82 | 98 | 1.4 | 7 | 0/-18 |
| | 3 | 347 | 173 | 0.51 A | 0.91 | 1.73 | 99 | 1.4 | 5 | 0/-18 |
| | 3 | 480 | 173 | 0.37 A | 0.91 | 1.73 | 98 | 1.4 | 8 | 0/-18 |
| | 2 | 347 | 123 | 0.37 A | 1.63 | 1.63 | 99 | 1.4 | 7 | 0/-18 |
| | 2 | 480 | 123 | 0.27 A | 1.24 | 1.61 | 96 | 1.4 | 12 | 0/-18 |
| | 1 | 347 | 68 | 0.22 A | 1.47 | 1.47 | 92 | 1.4 | 19 | 0/-18 |
| | 1 | 480 | 69 | 0.19 A | 1.45 | 1.45 | 77 | 1.4 | 40 | 0/-18 |
| FT55W/4P | 4 | 347 | 219 | 0.65 A | 1.00 | 1.83 | 99 | 1.4 | 5 | 0/-18 |
| | 4 | 480 | 218 | 0.47 A | 1.00 | 1.83 | 98 | 1.4 | 7 | 0/-18 |
| | 3 | 347 | 171 | 0.51 A | 1.01 | 1.75 | 99 | 1.4 | 5 | 0/-18 |
| | 3 | 480 | 171 | 0.37 A | 1.01 | 1.75 | 98 | 1.4 | 8 | 0/-18 |
| | 2 | 347 | 121 | 0.36 A | 0.96 | 1.65 | 99 | 1.4 | 6 | 0/-18 |
| | 2 | 480 | 122 | 0.27 A | 0.96 | 1.64 | 96 | 1.4 | 12 | 0/-18 |
| | 1 | 347 | 66 | 0.21 A | 1.12 | 1.52 | 94 | 1.4 | 14 | 0/-18 |
| | 1 | 480 | 67 | 0.17 A | 1.12 | 1.49 | 82 | 1.4 | 37 | 0/-18 |
| | 4 | 347 | 209 | 0.62 A | 0.95 | 1.91 | 99 | 1.4 | 5 | -22/-30 |
| | 4 | 480 | 208 | 0.45 A | 0.95 | 1.92 | 98 | 1.4 | 7 | -22/-30 |
| | 3 | 347 | 164 | 0.49 A | 0.99 | 1.83 | 99 | 1.4 | 5 | -22/-30 |
| | 3 | 480 | 165 | 0.36 A | 0.99 | 1.82 | 97 | 1.4 | 8 | -22/-30 |
| F54T5/WM | 2 | 347 | 117 | 0.35 A | 0.96 | 1.71 | 99 | 1.4 | 6 | -22/-30 |
| | 2 | 480 | 118 | 0.26 A | 0.96 | 1.69 | 96 | 1.4 | 12 | -22/-30 |
| | 1 | 347 | 65 | 0.20 A | 1.12 | 1.54 | 97 | 1.4 | 9 | -22/-30 |
| | 1 | 480 | 66 | 0.15 A | 1.12 | 1.52 | 91 | 1.4 | 16 | -22/-30 |
| | 4 | 347 | 206 | 0.63 A | 1.00 | 1.94 | 99 | 1.4 | 5 | 0/-18 |
| | 4 | 480 | 205 | 0.44 A | 1.00 | 1.95 | 98 | 1.4 | 7 | 0/-18 |
| | 3 | 347 | 161 | 0.48 A | 1.04 | 1.86 | 99 | 1.4 | 5 | 0/-18 |
| | 3 | 480 | 162 | 0.35 A | 1.04 | 1.85 | 97 | 1.4 | 8 | 0/-18 |
| | 2 | 347 | 117 | 0.35 A | 1.06 | 1.71 | 99 | 1.4 | 6 | 0/-18 |
| | 2 | 480 | 118 | 0.26 A | 1.06 | 1.69 | 96 | 1.4 | 12 | 0/-18 |
| | 1 | 347 | 65 | 0.20 A | 1.08 | 1.54 | 97 | 1.4 | 10 | 0/-18 |
| | 1 | 480 | 66 | 0.15 A | 1.08 | 1.52 | 90 | 1.4 | 18 | 0/-18 |

Safety and performance

Product is compliant with material restriction requirements of RoHS UL Type 1 Outdoor UL Type HL FCC - CLASS A Non-Consumer ANSI-C62.41-1991 ANSI-C82.11-Cons 2002

ANSI-C62.41-2002 UL Class P UL Type CC UL 55C Ambient Approved

High Temperature Rated: Suitable for high temperature applications No PCB's

T5 Watt-Miser Electronic Program / Rapid Start Ballast

T5 Electronic Programmed Start

62731 – GE454PS347-E

T5 High Output - UltraStart® Programmed

Rapid Start

4-1 - F54T5HO 347V LFL E Can

- High Efficiency T5 ballast with Continuous Cathode Cutout Technology
- Lower Maintenance Costs with Parallel Lamp Operation
- Fast Starting Time <700ms
- Auto-Restart withstands temporary losses in power without the need to cycle power
- Anti-Striation Control for better light quality, with no striations.
- 90°C case rating/UL Approved 55C Ambient Rating
- Individual lamp End of Lamp Life protection - only one lamp shuts down at end of life
- Cold temperature -20°F Minimum Starting Temperature

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Program / Rapid Start |
| Starting Method | Programmed Rapid Start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal Can |
| Additional Info | Lamp End-of-Life Safety Shutdown Circuit/Auto-restart/ Anti-striation control |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|--------------------|-----------------|----------------|
| 8 Pack | Pallet Pack | DIY Pack | IP Pack |
| 62731 | | | |

| Dimensions | |
|--|-------------------------|
| Wiring diagram – LFL 4b – see example on page 13-17 | |
| Case dimensions – Ref Drawing - E Can – see page 13-19 | |
| Length (L) | 16.7 in (424 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 16.1 in (409 mm) |
| Weight | 2.5 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 12 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| | Length (± 1 in.) |
| Black | 25.0 in (635 mm) |
| White | 25.0 in (635 mm) |
| Blue | 34.0 in (864 mm) |
| Blue/White | 34.0 in (864 mm) |
| Red | 34.0 in (864 mm) |
| Red/White | 34.0 in (864 mm) |
| Yellow | 35.0 in (889 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
| F54T5/HO | 4 | 347 | 229 | 0.68 A | 1.00 | 1.75 | 99 | 1.4 | 5 | -22/-30 |
| | 3 | 347 | 176 | 0.53 A | 1.01 | 1.70 | 99 | 1.4 | 5 | -22/-30 |
| | 2 | 347 | 125 | 0.37 A | 0.96 | 1.60 | 99 | 1.4 | 7 | -22/-30 |
| | 1 | 347 | 68 | 0.21 A | 1.12 | 1.47 | 94 | 1.4 | 16 | -22/-30 |
| | 4 | 347 | 227 | 0.68 A | 1.06 | 1.76 | 99 | 1.4 | 5 | 0/-18 |
| F54T5/W4P | 3 | 347 | 177 | 0.53 A | 1.11 | 1.69 | 99 | 1.4 | 5 | 0/-18 |
| | 2 | 347 | 126 | 0.37 A | | 1.59 | 99 | 1.4 | 6 | 0/-18 |
| | 1 | 347 | 69 | 0.22 A | | 1.47 | 94 | 1.4 | 16 | 0/-18 |
| | 4 | 347 | 221 | 0.66 A | 0.86 | 1.81 | 99 | 1.4 | 5 | 0/-18 |
| | 3 | 347 | 173 | 0.51 A | 0.91 | 1.73 | 99 | 1.4 | 5 | 0/-18 |
| F54T5/W4P | 2 | 347 | 123 | 0.37 A | | 1.63 | 99 | 1.4 | 7 | 0/-18 |
| | 1 | 347 | 68 | 0.22 A | | 1.47 | 92 | 1.4 | 19 | 0/-18 |
| | 4 | 347 | 219 | 0.65 A | 1.00 | 1.83 | 99 | 1.4 | 5 | 0/-18 |
| | 3 | 347 | 171 | 0.51 A | 1.01 | 1.75 | 99 | 1.4 | 5 | 0/-18 |
| | 2 | 347 | 121 | 0.36 A | 0.96 | 1.65 | 99 | 1.4 | 6 | 0/-18 |
| F54T5/WM | 1 | 347 | 66 | 0.21 A | 1.12 | 1.52 | 94 | 1.4 | 14 | 0/-18 |
| | 4 | 347 | 209 | 0.62 A | 0.95 | 1.91 | 99 | 1.4 | 5 | -22/-30 |
| | 3 | 347 | 164 | 0.49 A | 0.99 | 1.83 | 99 | 1.4 | 5 | -22/-30 |
| | 2 | 347 | 117 | 0.35 A | 0.96 | 1.71 | 99 | 1.4 | 6 | -22/-30 |
| | 1 | 347 | 65 | 0.20 A | 1.12 | 1.54 | 97 | 1.4 | 9 | -22/-30 |
| F58T8 | 4 | 347 | 206 | 0.63 A | 1.00 | 1.94 | 99 | 1.4 | 5 | 0/-18 |
| | 3 | 347 | 161 | 0.48 A | 1.04 | 1.86 | 99 | 1.4 | 5 | 0/-18 |
| | 2 | 347 | 117 | 0.35 A | 1.06 | 1.71 | 99 | 1.4 | 6 | 0/-18 |
| F54T5/47W | 1 | 347 | 65 | 0.20 A | 1.08 | 1.54 | 97 | 1.4 | 10 | 0/-18 |

Safety and performance Product is compliant with material restriction requirements of RoHS UL Type 1 Outdoor UL Type HL FCC – CLASS A Non-Consumer ANSI-C62.41-1991 ANSI-C82.11-Cons 2002
 ANSI-C62.41-2002 UL Class P UL Type CC UL 55C Ambient Approved
 High Temperature Rated: Suitable for high temperature applications No PCB's 70C max case temp 5 yr warranty or 90C max case temp 3 yr warranty

Step Down Transformers

T5 Electronic Programmed Start Ballasts

74119 – GETR480/277-250W

Step Down Transformers

Non-Isolated Autotransformer 480 to 277V, <250 Watts (VA), A Can

- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity.
- Non-Isolated Autotransformer designed specifically for lighting applications to step down 480V to 277V
- For use with one or more electronic 277V or universal voltage ballasts within max total system power of autotransformer
- 480Vrms Input, 60Hz Only, 277Vrms Full Load Output or 347Vrms Input
- For loads with total system power <250VA
- Internal Auto Reset Thermal Protector Rated 100C
- For use on single phase or ground referred systems
- Five Year Limited Warranty
- 93% electrical efficiency

| General characteristics | |
|-------------------------|------------------------|
| Ballast Type | Magnetic - Core & Coil |
| Case Temperature (MAX) | 100°C (212°F) |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Thermally protected |

| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74119 | | | |

| Specifications by lamp and wattage | |
|------------------------------------|--|
| Line Volts | |
| 480V to 277V | |
| 347V to 200V | |

Safety and performance  UL Type 1 Outdoor  UL Listed  UL Listed Autotransformer  cUL US cUL

| Dimensions | |
|---|-------------------------|
| Wiring diagram – TR1 – see example on page 13-18 | |
| Case dimensions – Ref Drawing – A Can – see page 13-19 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Exit Type | Side |
| Remote Mounting Wire Gauge | 14 AWG |
| Lead lengths | |
| | Length (± 1 in.) |
| Black | 14.0 in (356 mm) |
| Blue | 14.0 in (356 mm) |
| Red | 14.0 in (356 mm) |

74120 – GETR480/277-375W

Step Down Transformers

Non-Isolated Autotransformer 480 to 277V, <375 Watts (VA), F Can

- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity.
- Non-Isolated Autotransformer designed specifically for lighting applications to step down 480V to 277V
- For use with one or more electronic 277V or universal voltage ballasts within max total system power of autotransformer
- 480Vrms Input, 60Hz Only, 277Vrms Full Load Output or 347Vrms Input
- For loads with total system power <375VA
- Internal Auto Reset Thermal Protector Rated 100C
- For use on single phase or ground referred systems
- Five Year Limited Warranty
- 93% electrical efficiency

| General characteristics | |
|-------------------------|------------------------|
| Ballast Type | Magnetic - Core & Coil |
| Case Temperature (MAX) | 100°C (212°F) |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Thermally protected |

| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 74120 | | | |

| Specifications by lamp and wattage | |
|------------------------------------|--|
| Line Volts | |
| 480V to 277V | |
| 347V to 200V | |

Safety and performance  UL Type 1 Outdoor  UL Listed  cUL US cUL

| Dimensions | |
|---|-------------------------|
| Wiring diagram – TR1 – see example on page 13-18 | |
| Case dimensions – Ref Drawing – F Can – see page 13-19 | |
| Length (L) | 11.75 in (299 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Exit Type | Side |
| Remote Mounting Wire Gauge | 14 AWG |
| Lead lengths | |
| | Length (± 1 in.) |
| Black | 14.0 in (356 mm) |
| Blue | 14.0 in (356 mm) |
| Red | 14.0 in (356 mm) |

Step Down Transformers

T5 Electronic Programmed Start Ballasts

85857 - GETR277/120-175W

Step Down Transformers

Non-Isolated Autotransformer 277 to 120V, <175 Watts (VA), A Can

| General characteristics | |
|-------------------------|------------------------|
| Ballast Type | Magnetic - Core & Coil |
| Case Temperature (MAX) | 100°C (212°F) |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Thermally protected |

| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 6 Pack | Pallet Pack | DIY Pack | IP Pack |
| 85857 | | | |

| Specifications by lamp and wattage | | |
|------------------------------------|------------|------------|
| Lamp | # of Lamps | Line Volts |
| F54T5/HO | 1 | 277 |
| F32T8 | 1 | 277 |

Safety and performance  UL Environmental Type 1 Enclosure  UL Listed  UL Listed Autotransformer

- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity.
- Non-Isolated Autotransformer designed specifically for lighting applications to step down 277V to 120V.
- For use with one or more electronic 120V or universal voltage ballasts within max total system power of autotransformer.
- 277Vrms Input, 60Hz Only, 120Vrms Full Load Output
- For loads with total system power <175VA
- Internal Auto Reset Thermal Protector Rated 100°C
- For use on single phase
- Five Year Limited Warranty
- 93% electrical efficiency

| Dimensions | |
|---|-------------------------|
| Wiring diagram - TR1 - see example on page 13-18 | |
| Case dimensions - Ref Drawing - A Can - see page 13-19 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30.5 mm) |
| Mounting dimensions | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.1 in (29 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Exit Type | Side |
| Remote Mounting Wire Gauge | 14 AWG |
| Lead lengths | |
| | Length (± 1 in.) |
| Black | 14.0 in (356 mm) |
| Blue | 14.0 in (356 mm) |
| Red | 14.0 in (356 mm) |

90896 - GETR347/277-375W

Step Down Transformers

Non-Isolated Autotransformer 347 to 277V, <375 Watts (VA), F Can

| General characteristics | |
|-------------------------|------------------------|
| Ballast Type | Magnetic - Core & Coil |
| Case Temperature (MAX) | 100°C (212°F) |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Thermally protected |

| Electrical characteristics | |
|--------------------------------|-------|
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 6 Pack | Pallet Pack | DIY Pack | IP Pack |
| 90896 | | | |

| Specifications by lamp and wattage | | |
|------------------------------------|------------|------------|
| Lamp | # of Lamps | Line Volts |
| F54T5/HO | 1 | 347 |
| F32T8 | 1 | 347 |

Safety and performance  UL Environmental Type 1 Enclosure  UL Listed  UL Listed Autotransformer

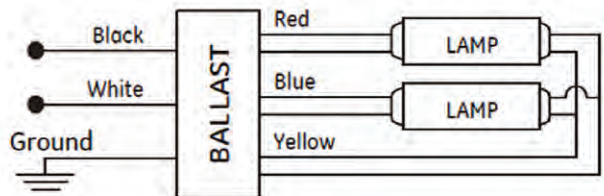
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity.
- Non-Isolated Autotransformer designed specifically for lighting applications to step down 347V to 277V.
- For use with one or more electronic 277V or universal voltage ballasts within max total system power of autotransformer.
- 347Vrms Input, 60Hz Only, 277Vrms Full Load Output
- For loads with total system power <375VA
- Internal Auto Reset Thermal Protector Rated 100°C
- For use on single phase
- Five Year Limited Warranty
- 93% electrical efficiency

| Dimensions | |
|---|-------------------------|
| Wiring diagram - TR1 - see example on page 13-18 | |
| Case dimensions - Ref Drawing - F Can - see page 13-19 | |
| Length (L) | 11.8 in (298.5 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.2 in (30.5 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.2 in (6 mm) |
| Exit Type | Side |
| Remote Mounting Wire Gauge | 14 AWG |
| Lead lengths | |
| | Length (± 1 in.) |
| Black | 14.0 in (356 mm) |
| Blue | 14.0 in (356 mm) |
| Red | 14.0 in (356 mm) |

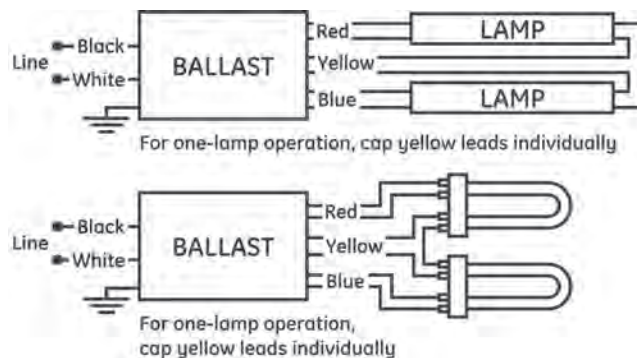
Wiring Diagrams

T5 Electronic Programmed Start Ballasts

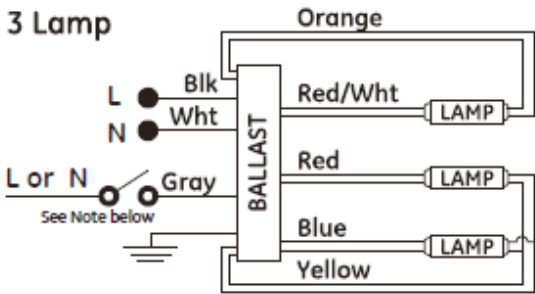
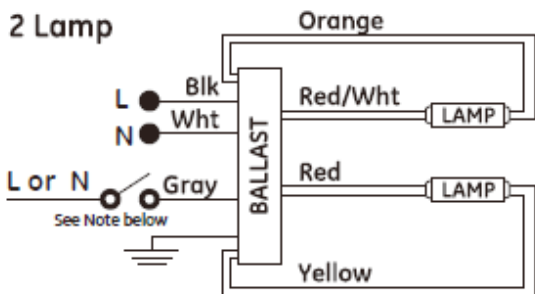
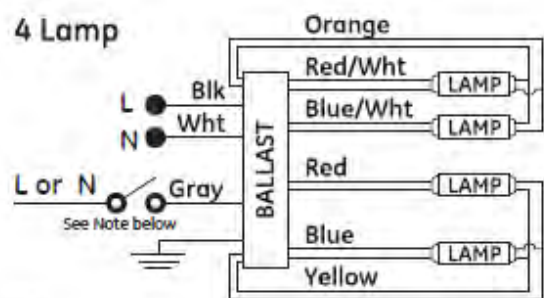
LFL 4a



LFL 4b

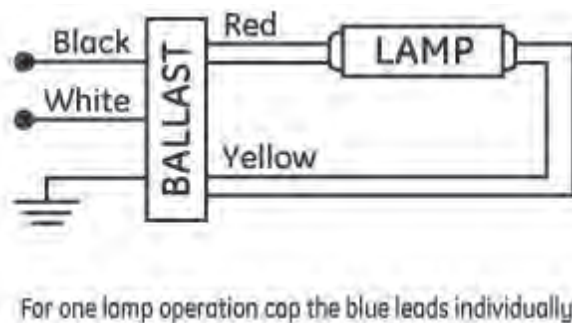


LFL 4c



Note:
Connect gray wire to line or neutral for full output with all lamps on. Leave gray wire open for dimmed output, only lamps connected to Red-White and Blue-White will be operated. Use dry contact switch or relay for high/low control.

T51



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

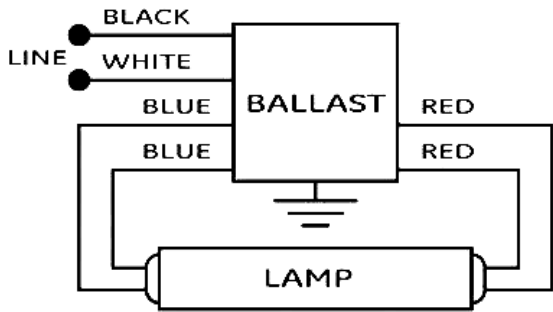
Compact Fluorescent

HID Electronic & Electromagnetic

Wiring Diagrams

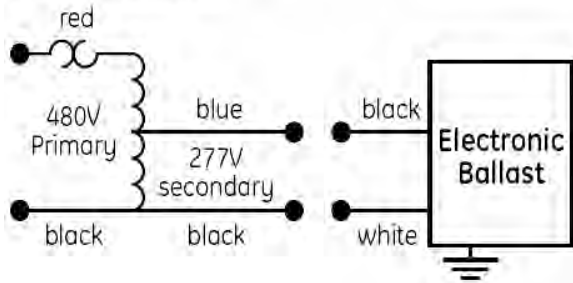
T5 Electronic Programmed Start Ballasts

LFL PS1b



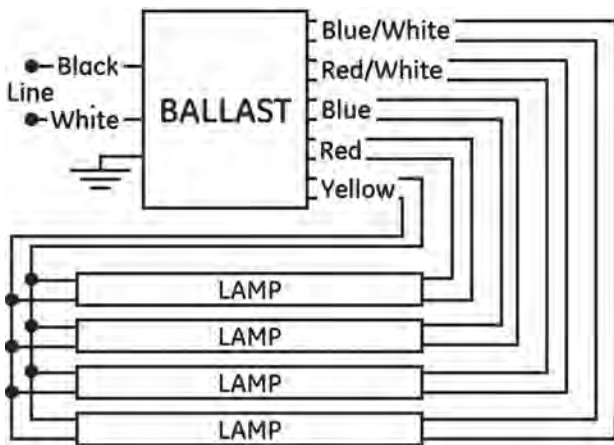
TR1

Autotransformer

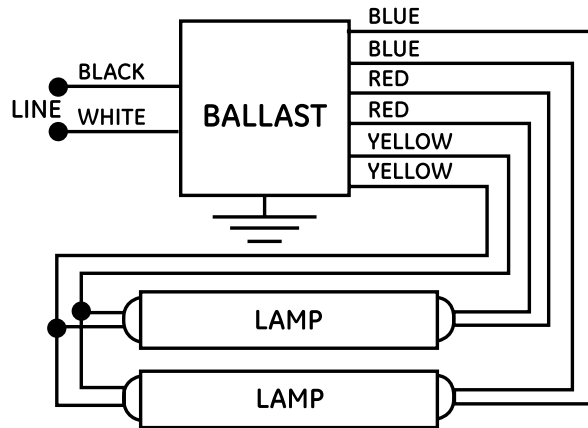


Grounded 277V, 347V or 480V systems only

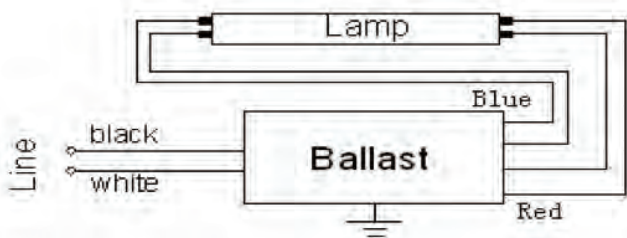
LFL PS4



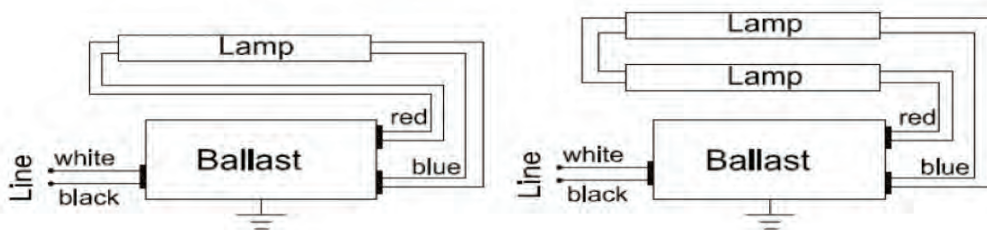
LFL 2a



LFL 1a



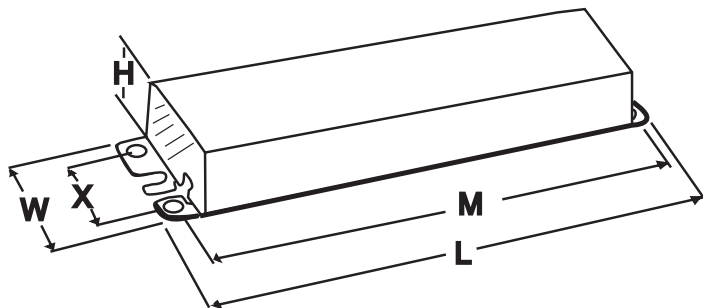
LFL 1b



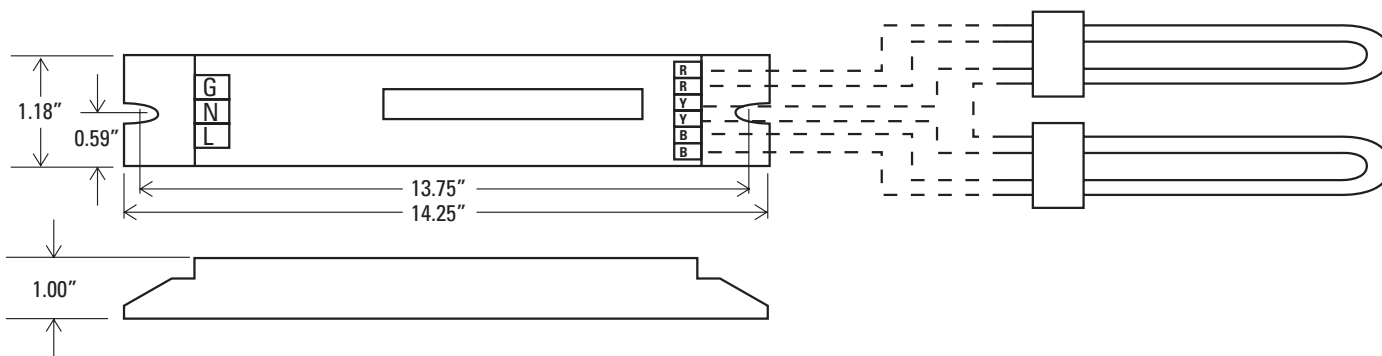
Case Dimensions

T5 Electronic Programmed Start Ballasts

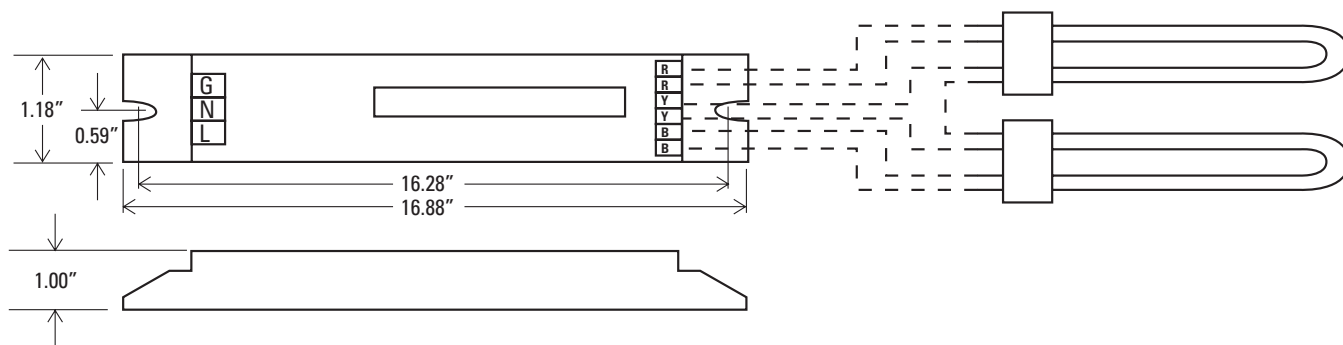
-A Can, -E, -F, -G



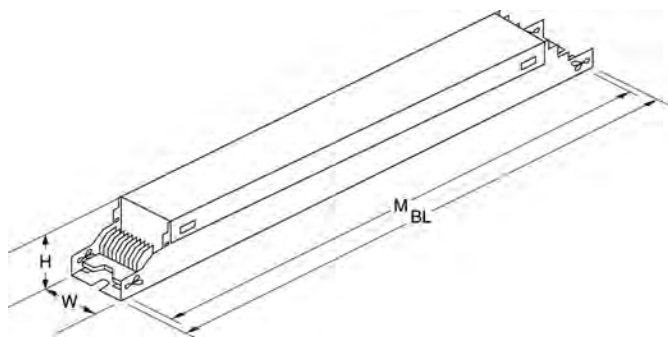
-C Can



-D Can



-J



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

Table of Contents

T12 Electronic and High Output Ballasts

Understanding T12 Electronic Ballasts 14-2

ProLine® T12

For F20 (2 ft), F30 (3 ft),
F34/F40 (4 ft) T12 Lamps 14-3

For T12 4 ft – 8 ft
Slimline Lamps 14-4

T12 High Output..... 14-5

Wiring Diagrams..... 14-6

Case Dimensions 14-7

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

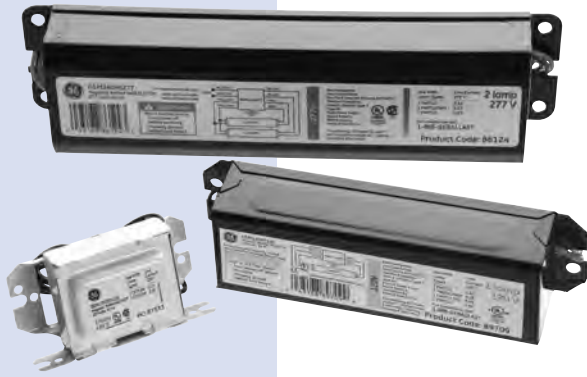
T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic



Understanding T12 Electronic Ballasts

Electronic T12

GE multivolt and dedicated voltage ProLine® T12 high-performance ballasts are designed for replacement of magnetic T12 electronic ballasts during maintenance or retrofits. GE multivolt ProLine® T12 ballasts have the same wiring and mounting requirements as standard magnetic ballasts and provide up to 20% energy savings by simply replacing the ballast.

The DOE ballast ruling effective April 1, 2005, prevents the sale of 4 foot and 8 foot lamp electromagnetic ballasts that operate T12 lamps and do not meet federal ballast efficiency requirements. GE ProLine® T12 electronic ballasts meet the DOE minimum ballast efficiency requirements and also allow facility managers to reduce ballast maintenance inventories by consolidating the number of ballasts needed. GE ProLine® T12 ballasts operate both energy-saving and standard wattage lamps and are also multi-voltage (120-277V). With 2 ballasts, the multi-voltage ProLine® T12 can consolidate over 40 different magnetic ballasts.

Performance Features

- GE240RSMVN and GE240RS120 comply with FCC for residential use
- Low-profile and lightweight housing simplifies installation and reduces transportation costs (GE240 = 1.3 lbs. lighter than magnetic; GE260 = 5.3 lbs. lighter than magnetic)
- Parallel operation — if one lamp fails, others remain lit
- Significantly quieter than magnetic
- High-frequency operation virtually eliminates lamp flickering typical in T12 electromagnetic systems
- Five-year limited ballast warranty

Electromagnetic T12

- Complete line of ballasts for 2-to-8 foot lamps, circleline and high-output lamps
- 100% thermally protected
- High-grade lamination steel assures lowest wattage loss
- UL, CSA and/or cUL approved
- 888-GEBALLAST on every ballast
- Two-year limited ballast warranty

Color-Coded Ballast and Outer Box Labels

120V – Yellow
277V – Red

Packaging

- Standard 10 packs
- IP Packs – individually packed with instructions
- DIY – shrink-wrapped and tray-packed with instructions

GE Ballast LFL magnetic nomenclature

| G E M - 2 3 2 - H O - R S - 1 2 0 - D I Y | | | | |
|--|--|---|--|--|
| GE Ballast M = Electromagnetic Ballast GEH = HID Maximum number of lamps supported by this ballast: 1, 2, 3, 4 | Lamp Watts (Primary Lamp) T8 = 32 – 4 foot, 59 – 8 foot T12 = 40 – 4 foot, 60 – 8 foot T12 Electronic = 40 – 2-4 foot, 2 pin 60 – 4-8 foot, 1 pin 96 – 4-8 foot HO, 2 pin T12 Magnetic = 40 – 2-4 foot, 2 pin 96 – 4-8 foot, 2 pin | IS = Instant Start, default if not shown RS = Rapid Start PH = Preheat PT= Preheat/Trigger H = Hybrid D50 = Dimming (min level) HO = High Output VHO = Very High Output | 120V – Yellow 277V – Red 220V – Green 240V – Orange 347 – Gray | Pack Type IP = Individual corrugated box per ballast 84T = Pallet bulk pack (84=840, 42=420 ballasts) DIY = Shrinkwrap ballast in tray pack DIV72 = Shrinkwrap ballast in pallet pack (Qty) No extension = 10 pack |



ProLine® T12

T12 Electronic and High Output Ballasts For F20 (2 ft), F30 (3 ft), F34/F40 (4 ft) T12 Lamps

74472 – GE240PS-MV-N (replaces 24107)

ProLine® T12 Multivolt 120V – 277V

2 or 1 – F40 or F34T12 Rapid Start 120 to 277 “N” BF ProLine® T12

- High-performance electronic ballast for all general fluorescent applications
- Multi-voltage technology handles voltage from 120 to 277V
- Light weight, low-profile housing
- Parallel lamp operation means system maintenance is easier to manage

General characteristics

| | |
|-------------------------------|--------------------------------------|
| Ballast Type | Electronic – Programmed/ Rapid Start |
| Starting Method | Rapid start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70°C (158°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Thermally protected |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| Std. pack | Pallet Pack | DIY Pack | IP Pack |
|-----------|-------------|------------------------|---------|
| 74472 | | 74473 (replaces 24773) | |

Dimensions

Wiring diagram – LFL P52 – see example on page 14-6
Case dimensions – Ref Drawing B1 – see page 14-7

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.3 in (33 mm) |
| Height (H) | 1.2 in (30 mm) |

Mounting dimensions

| | |
|----------------------------------|-----------------|
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.1 in (28 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.06 lbs |
| Exit Type | Side |
| Remote mounting distance to lamp | 18 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|--------|-------------------|
| Yellow | 48.0 in (1219 mm) |
| Blue | 33.0 in (838 mm) |
| Red | 33.0 in (838 mm) |
| Black | 25.0 in (635 mm) |
| White | 25.0 in (635 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F40T12 | 2 | 120 | 74 | 0.67 A | 0.89 | 1.20 | 99 | 1.7 | 6 | 50/10 |
| | 2 | 277 | 73 | 0.30 A | 0.89 | 1.22 | 97 | 1.7 | 10 | 50/10 |
| | 1 | 120 | 48 | 0.41 A | | | 99 | 1.7 | 7 | 50/10 |
| | 1 | 277 | 48 | 0.19 A | | | 95 | 1.7 | 10 | 50/10 |
| | 2 | 120 | 75 | 0.63 A | 0.88 | 1.17 | 99 | 1.7 | 7 | 50/10 |
| | 2 | 277 | 72 | 0.27 A | 0.88 | 1.22 | 94 | 1.7 | 16 | 50/10 |
| F40T10 | 1 | 120 | 42 | 0.35 A | | | 99 | 1.7 | 10 | 50/10 |
| | 1 | 277 | 42 | 0.17 A | | | 88 | 1.7 | 16 | 50/10 |
| | 2 | 120 | 63 | 0.56 A | 0.87 | 1.38 | 99 | 1.7 | 7 | 50/10 |
| F34T12 | 2 | 277 | 62 | 0.26 A | 0.87 | 1.40 | 96 | 1.7 | 10 | 50/10 |
| | 1 | 120 | 41 | 0.35 A | | | 99 | 1.7 | 8 | 50/10 |
| | 1 | 277 | 41 | 0.17 A | | | 94 | 1.7 | 11 | 50/10 |
| | 2 | 120 | 50 | 0.42 A | 0.95 | 1.90 | 99 | 1.7 | 9 | 50/10 |
| | 2 | 277 | 50 | 0.20 A | 0.95 | 1.90 | 91 | 1.7 | 18 | 50/10 |
| | 1 | 120 | 30 | 0.26 A | | | 99 | 1.7 | 12 | 50/10 |
| F30T12/WM | 1 | 277 | 30 | 0.13 A | | | 82 | 1.7 | 27 | 50/10 |
| | 2 | 120 | 60 | 0.31 A | 0.95 | 1.58 | 99 | 1.7 | 7 | 50/10 |
| | 2 | 277 | 58 | 0.22 A | 0.95 | 1.64 | 96 | 1.7 | 10 | 50/10 |
| F30T12 | 1 | 120 | 37 | 0.31 A | | | 99 | 1.7 | 8 | 50/10 |
| | 1 | 277 | 37 | 0.16 A | | | 94 | 1.7 | 11 | 50/10 |
| | 2 | 120 | 46 | 0.39 A | 1.00 | 2.17 | 99 | 1.7 | 8 | 50/10 |
| | 2 | 277 | 45 | 0.18 A | 1.00 | 2.22 | 94 | 1.7 | 11 | 50/10 |
| | 1 | 120 | 28 | 0.24 A | | | 99 | 1.7 | 9 | 50/10 |
| F20T12 | 1 | 277 | 29 | 0.13 A | | | 92 | 1.7 | 17 | 50/10 |

Safety and performance



Product is compliant with material restriction requirements of RoHS

ProLine® T12

T12 Electronic and High Output Ballasts For T12 4 ft – 8 ft Slimline Lamps

74474 – GE-260IS-MV-N (replaces 24108)

ProLine® T12 Multivolt 120V – 277V

2 or 1 – F96T12 Instant Start 120 to 277

- High-performance electronic ballasts for all general fluorescent applications
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Multi-voltage technology handles voltage from 120 to 277V
- Lightweight, low-profile housing
- Parallel lamp operation means system maintenance is easier to manage

General characteristics

| | |
|-------------------------------|--------------------------------------|
| Ballast Type | Electronic - Multivolt Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10 % |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 70 °C (158 °F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Additional Info | Auto-restart, Thermally protected |

Electrical characteristics

| | |
|--------------------------|------------|
| Supply Current Frequency | 50Hz/60 Hz |
|--------------------------|------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|------------------------|---------|
| 74474 | | 74475 (replaces 24776) | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor% (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|--------------------|-------------------|-----------|----------------------------|
| F96T12/WMP | 2 | 120 | 107 | 0.94 A | 0.88 | 0.82 | 99 | 1.7 | 8 | 60/16 |
| | 2 | 277 | 106 | 0.40 A | 0.88 | 0.83 | 96 | 1.7 | 10 | 60/16 |
| | 1 | 120 | 68 | 0.60 A | 1.00 | 1.47 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 68 | 0.27 A | 1.00 | 1.47 | 95 | 1.7 | 12 | 60/16 |
| | 2 | 120 | 112 | 0.98 A | 0.90 | 0.80 | 99 | 1.7 | 8 | 60/16 |
| | 2 | 277 | 110 | 0.42 A | 0.90 | 0.82 | 97 | 1.7 | 10 | 60/16 |
| F96T12/WM | 1 | 120 | 72 | 0.63 A | 1.00 | 1.39 | 99 | 1.7 | 10 | 60/16 |
| | 1 | 277 | 71 | 0.28 A | 1.00 | 1.41 | 95 | 1.7 | 12 | 60/16 |
| | 2 | 120 | 141 | 1.24 A | 0.90 | 0.64 | 99 | 1.7 | 8 | 0/-18 |
| | 2 | 277 | 138 | 0.53 A | 0.90 | 0.65 | 98 | 1.7 | 10 | 0/-18 |
| F96T12 | 1 | 120 | 90 | 0.79 A | 1.02 | 1.13 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 89 | 0.34 A | 1.02 | 1.15 | 96 | 1.7 | 12 | 0/-18 |
| | 2 | 120 | 125 | 1.10 A | 0.90 | 0.72 | 99 | 1.7 | 8 | 0/-18 |
| F84T12 | 2 | 277 | 123 | 0.47 A | 0.90 | 0.73 | 97 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 80 | 0.70 A | 1.04 | 1.30 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 79 | 0.30 A | 1.04 | 1.32 | 96 | 1.7 | 12 | 0/-18 |
| | 2 | 120 | 107 | 0.94 A | 0.90 | 0.84 | 99 | 1.7 | 8 | 0/-18 |
| | 2 | 277 | 106 | 0.40 A | 0.90 | 0.85 | 97 | 1.7 | 10 | 0/-18 |
| F72T12 | 1 | 120 | 69 | 0.60 A | 1.04 | 1.51 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 69 | 0.27 A | 1.04 | 1.51 | 95 | 1.7 | 12 | 0/-18 |
| | 2 | 120 | 97 | 0.86 A | 0.90 | 0.93 | 99 | 1.7 | 8 | 0/-18 |
| | 2 | 277 | 96 | 0.37 A | 0.90 | 0.94 | 97 | 1.7 | 10 | 0/-18 |
| F64T12 | 1 | 120 | 63 | 0.55 A | 1.08 | 1.71 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 63 | 0.25 A | 1.08 | 1.71 | 95 | 1.7 | 12 | 0/-18 |
| | 2 | 120 | 92 | 0.81 A | 0.90 | 0.98 | 99 | 1.7 | 8 | 0/-18 |
| | 2 | 277 | 91 | 0.35 A | 0.90 | 0.99 | 96 | 1.7 | 10 | 0/-18 |
| F60T12 | 1 | 120 | 60 | 0.53 A | 1.08 | 1.80 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 60 | 0.28 A | 1.08 | 1.80 | 94 | 1.7 | 12 | 0/-18 |
| | 2 | 120 | 73 | 0.65 A | 0.90 | 1.23 | 99 | 1.7 | 8 | 0/-18 |
| | 2 | 277 | 73 | 0.29 A | 0.90 | 1.23 | 95 | 1.7 | 10 | 0/-18 |
| F48T12 | 1 | 120 | 49 | 0.43 A | 1.10 | 2.24 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 48 | 0.20 A | 1.10 | 2.29 | 89 | 1.7 | 12 | 0/-18 |

Safety and performance



Product is compliant with material restriction requirements of RoHS

T12 High Output

T12 Electronic and High Output Ballasts

35727 – GE296HO-MVPS-N

T12 High Output ProLine® T12 Multivolt 120V – 277V

2 or 1 – F96T12 HO RS 120 to 277 Multivolt ProLine®

General characteristics

| | |
|-------------------------------|--------------------------------------|
| Ballast Type | Electronic – Programmed/ Rapid Start |
| Starting Method | Rapid start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 75°C (167°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Thermally protected |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| Std. pack | Pallet Pack | DIY Pack | IP Pack |
|-----------|-------------|----------|---------|
| 35727 | | 72109 | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD% (<=) | Min. Starting Temp (°F/°C) |
|------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|-----------|----------------------------|
| F96T12/HO/ WM | 2 | 120 | 164 | 1.38 A | 0.90 | 0.55 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 277 | 164 | 0.62 A | 0.90 | 0.55 | 99 | 1.7 | 10 | 60/16 |
| | 2 | 120 | 196 | 1.65 A | 0.90 | 0.46 | 99 | 1.7 | 10 | -20/-29 |
| | 2 | 277 | 196 | 0.73 A | 0.90 | 0.46 | 97 | 1.7 | 10 | -20/-29 |
| F96T12/HO | 1 | 120 | 104 | 0.88 A | 0.92 | 0.88 | 99 | 1.7 | 15 | -20/-29 |
| | 1 | 277 | 104 | 0.42 A | 0.92 | 0.88 | 95 | 1.7 | 15 | -20/-29 |
| | 2 | 120 | 154 | 1.30 A | 0.90 | 0.58 | 99 | 1.7 | 10 | -20/-29 |
| F72T12/HO | 2 | 277 | 154 | 0.57 A | 0.90 | 0.58 | 96 | 1.7 | 10 | -20/-29 |
| | 2 | 120 | 120 | 1.17 A | 0.90 | 0.75 | 99 | 1.7 | 10 | -20/-29 |
| F70T8 | 2 | 277 | 119 | 0.52 A | 0.90 | 0.76 | 97 | 1.7 | 10 | -20/-29 |
| | 2 | 120 | 132 | 0.50 A | 0.90 | 0.68 | 96 | 1.7 | 10 | -20/-29 |
| F60T12/HO | 2 | 277 | 132 | 0.50 A | 0.90 | 0.68 | 96 | 1.7 | 10 | -20/-29 |
| | 2 | 120 | 112 | 0.95 A | 0.90 | 0.80 | 99 | 1.7 | 15 | -20/-29 |
| F48T12/HO | 2 | 277 | 113 | 0.43 A | 0.90 | 0.80 | 95 | 1.7 | 15 | -20/-29 |

Safety and performance

cUL Listed  UL Listed FCC Part 18 (Class A) Non Consumer

Dimensions

Wiring diagram – LFL PS2 – see example on page 14-6

Case dimensions – Ref Drawing SL – see page 14-7

| | |
|------------|-------------------|
| Length (L) | 11.75 in (299 mm) |
| Width (W) | 2.15 in (55 mm) |
| Height (H) | 1.61 in (41 mm) |

Mounting dimensions

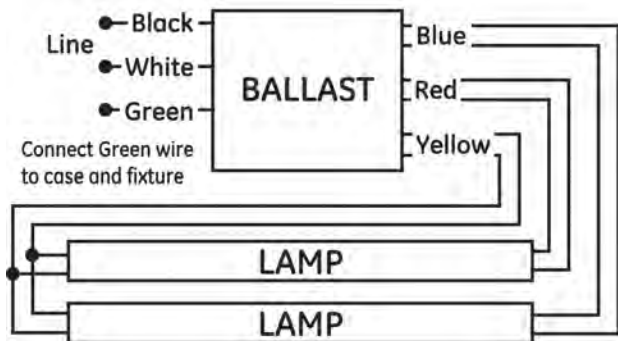
| | |
|-----------------------------------|------------------|
| Mount Length (M) | 11.0 in (279 mm) |
| Mount Width (X or F) | 2.15 in (55 mm) |
| Mount Slots (MS) | |
| Weight | |
| Exit Type | Side |
| Remote Mounting Distance to Lamp* | |
| Remote Mounting Wire Gauge | |

* See gelighting.com for wire lengths. Different for 10 pg vs. DIY pack.

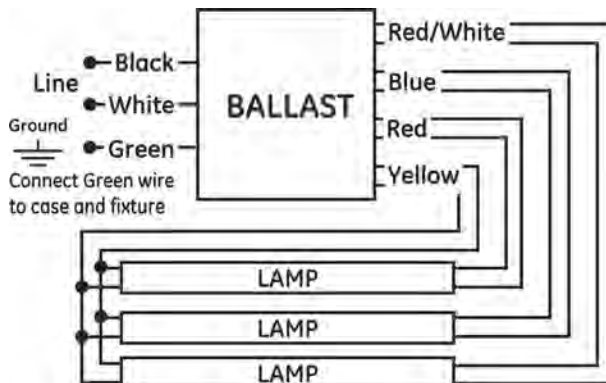
Wiring Diagrams

T12 Electronic and High Output Ballasts

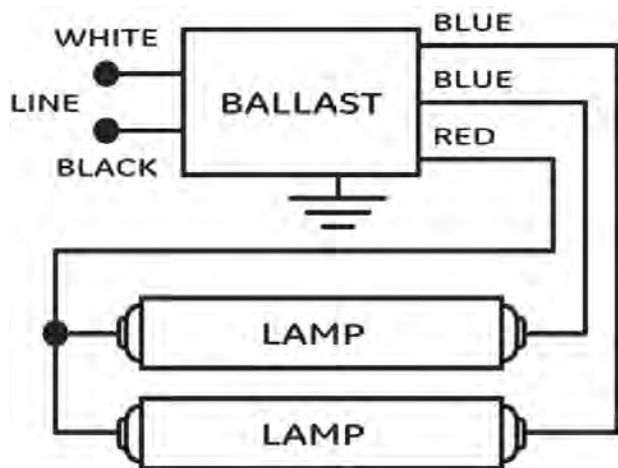
LFL PS2



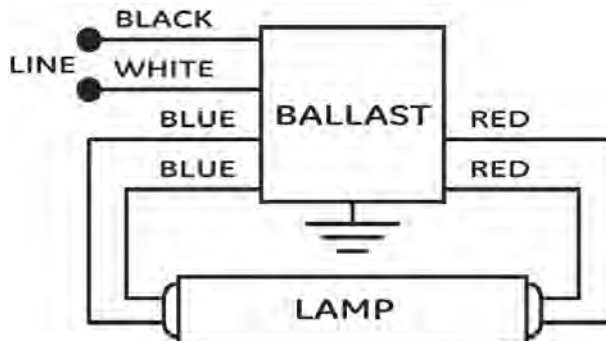
LFL PS3



LFL 14



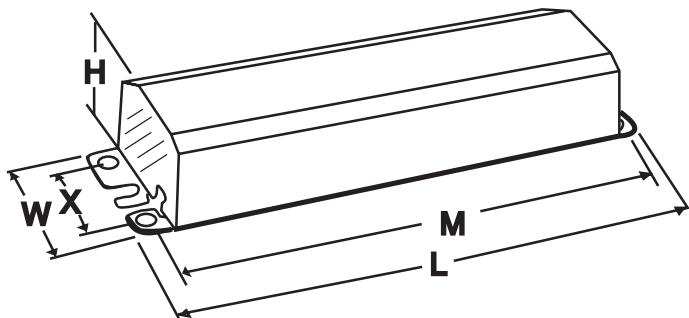
LFL 2



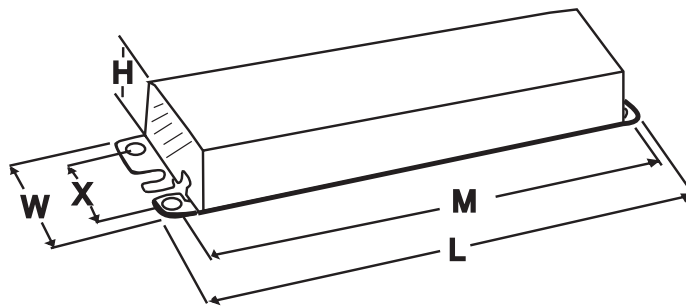
Case Dimensions

T12 Electronic and High Output Ballasts

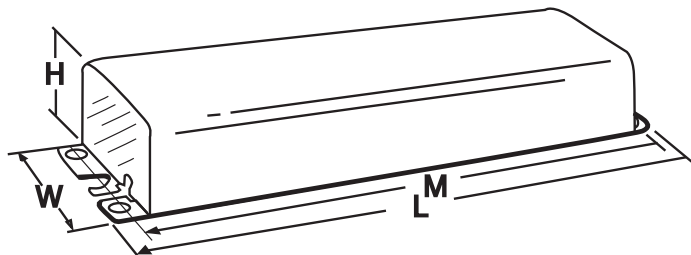
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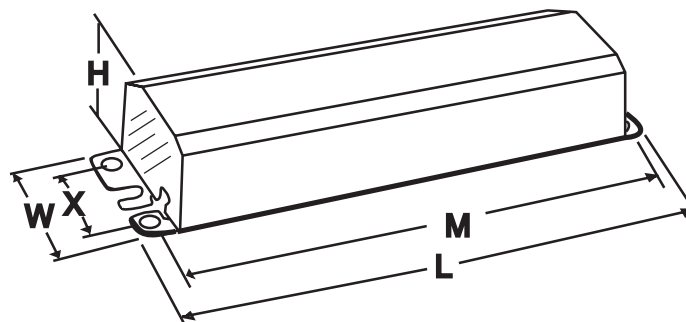
B1



D10, 15, 29



SL



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

Table of Contents

Magnetic Ballasts

Magnetic Ballasts

For T12 and T8 Preheat Lamps 15-2

For T9 Circleline Lamps 15-3

For T8 and T12 Straight Lamps,
and 2 Pin CFL Lamps..... 15-5

Fluorescent Accessories

Starters 15-6

Sockets..... 15-6

Wiring Diagrams..... 15-7

Case Dimensions 15-8

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

Magnetic Ballasts

For T12 and T8 Preheat Lamps

68186 – GEM120PH120DIY

Magnetic Ballasts

1 – F20T12, F15T8, F1512, F14T8, F18T8, 120V, Magnetic Ballast (200H2)

| | |
|-------------------------------|------------------------|
| Ballast Type | Magnetic – Rapid Start |
| Starting Method | Preheat |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 5% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | A (20-24 decibels) |
| Additional Info | |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| | | | |
|-----------|-------------|----------|---------|
| Std. pack | Pallet Pack | DIY Pack | IP Pack |
| | | 68186 | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
|--------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| F15T12 | 1 | 120 | 17 | 0.29 A | 0.84 | 5.1 | 47 | 1.6 | 15 | 50 / 10 |
| F15T8 | 1 | 120 | 16.5 | 0.28 A | 0.89 | 5.3 | 47 | 1.6 | 15 | 50 / 10 |
| F20T12 | 1 | 120 | 17 | 0.25 A | 0.70 | 4.0 | 55 | 1.6 | 15 | 50 / 10 |

Safety and performance



- Magnetic ballast construction for all general fluorescent lighting
- Extends lamp life in frequently switched applications
- Color-coded ballast and package labels reduce misapplication errors (120V Yellow, 277V Red)

Wiring diagram – LFL 21 – see example on page 15-7

Case dimensions – Ref Drawing 2 – see page 15-8

| | |
|------------|-----------------|
| Length (L) | 3.06 in (78 mm) |
| Width (W) | 1.81 in (46 mm) |
| Height (H) | 1.5 in (38 mm) |

Mounting dimensions

| | |
|----------------------------------|-----------------|
| Bracket Length (BL) | 3.0 in (77 mm) |
| Mount Length (M) | 2.75 in (70 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.2 in (6 mm) |
| Weight | 0.66 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in) |
| Black | 12 in (305 mm) |

68187 – GEM120TC120DIY

Magnetic Ballasts

1 – F20T12, F15T8, F15T12, F14T12, 120V, Magnetic Ballast (546BTCP)

General characteristics

| | |
|-------------------------------|-----------------------------------|
| Ballast Type | Magnetic – Rapid Start |
| Starting Method | Preheat |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 5% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Thermally protected |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| | | | |
|-----------|-------------|----------|---------|
| Std. pack | Pallet Pack | DIY Pack | IP Pack |
| | | 68187 | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
|--------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| F20T12 | 1 | 120 | 18.6 | 0.31 | 0.76 | 2.0 | 0.51 | 1.7 | 30 | 50 / 10 |
| F15T8 | 1 | 120 | 18.3 | 0.32 | 0.93 | 2.6 | 0.48 | 1.7 | 30 | 50 / 10 |
| F14T12 | 1 | 120 | 18.1 | 0.32 | 0.94 | 2.6 | 0.47 | 1.7 | 30 | 50 / 10 |
| F15T12 | 1 | 120 | 18.2 | 0.31 | 0.91 | 2.6 | 0.49 | 1.7 | 30 | 50 / 10 |

Safety and performance



Dimensions

Wiring diagram – LFL 22 – see example on page 15-7

Case dimensions – Ref Drawing 9 – see page 15-8

| | |
|------------|-----------------|
| Length (L) | 6.5 in (165 mm) |
| Width (W) | 1.75 in (44 mm) |
| Height (H) | 1.38 in (35 mm) |

Mounting dimensions

| | |
|----------------------------------|-----------------|
| Bracket Length (BL) | 6.4 in (164 mm) |
| Mount Length (M) | 6.0 in (152 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| Weight | 2.10 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in) |
| Black | 20 in (508 mm) |
| Blue | 15 in (381 mm) |
| Red | 15 in (381 mm) |

- Magnetic ballast construction for all general fluorescent lighting
- Extends lamp life in frequently switched applications
- Color-coded ballast and package labels reduce misapplication errors (120V Yellow, 277V Red)

Magnetic Ballasts

For Two Circleline T9 Preheat Lamps

68190 – GEM1FC16T9RS120

Magnetic Ballasts

2 – FC12T9, FC16T9, FC8T9, FC12T9, 120V, Magnetic (726VLHWSTCP)

- Magnetic ballast construction for all general fluorescent lighting
- Extends lamp life in frequently switched applications
- Color-coded ballast and package labels reduce misapplication errors (120V Yellow, 277V Red)

General characteristics

| | |
|-------------------------------|-----------------------------------|
| Ballast Type | Magnetic – Rapid Start |
| Starting Method | Preheat |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 5% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Thermally protected |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| Std. pack | Pallet Pack | DIY Pack | IP Pack |
|-----------|-------------|----------|---------|
| | | 68190 | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
|---------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| FC16T9/FC12T9 | 2 | 120 | 53 | 0.60 A | 1.70 | 2.30 | 75 | 1.7 | 30 | 50 / 10 |
| FC8T9/FC12T9 | 2 | 120 | 43 | 0.60 A | 1.70 | 2.30 | 60 | 1.7 | 30 | 50 / 10 |

Safety and performance



Dimensions

Wiring diagram – LFL 037 – see example on page 15-7

Case dimensions – Ref Drawing 9 – see page 15-8

| | |
|------------|-----------------|
| Length (L) | 6.5 in (167 mm) |
| Width (W) | 1.75 in (44 mm) |
| Height (H) | 1.38 in (35 mm) |

Mounting dimensions

| | |
|----------------------------------|-----------------|
| Bracket Length (BL) | 6.5 in (167 mm) |
| Mount Length (M) | 6.0 in (152 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.60 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-------------------|-----------------------------------|
| White | Length (± 1 in) 15 in (381 mm) |
| Black | 15 in (381 mm) |
| Red, Blue, Yellow | 11 in (280 mm) |

Magnetic Ballasts

For One Circleline T9 Preheat Lamp

68193 – GEM1FC8T9RS120IP

Magnetic Ballasts

1 – FC8T9, FC6T9, RS, 120V, Magnetic Ballast (547RSWSTCP)

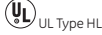


| General characteristics | |
|-------------------------------|-----------------------------------|
| Ballast Type | Magnetic - Rapid Start |
| Starting Method | Preheat |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 5% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Thermally protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| Std. pack | Pallet Pack | DIY Pack | IP Pack |
| | | | 68193 |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
|-------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| FC8T9 | 1 | 120 | 20 | 0.32 A | 0.76 | 3.8 | 52 | 1.8 | 30 | 50 / 10 |
| FC6T9 | 1 | 120 | 20 | 0.31 A | 0.78 | 3.7 | 53 | 1.8 | 30 | 50 / 10 |

Safety and performance    

- Magnetic ballast construction for all general fluorescent lighting
- Extends lamp life in frequently switched applications
- Color-coded ballast and package labels reduce misapplication errors (120V Yellow, 277V Red)

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 29 – see example on page 15-7 | |
| Case dimensions – Ref Drawing 9 – see page 15-8 | |
| Length (L) | 6.5 in (165 mm) |
| Width (W) | 1.75 in (44 mm) |
| Height (H) | 1.38 in (35 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | 6.4 in (164 mm) |
| Mount Length (M) | 6.0 in (152 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| Weight | 1.0 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Length (± 1 in) | |
| Black | 15 in (381 mm) |
| White | 15 in (381 mm) |
| Blue | 9 in (229 mm) |
| Red | 9 in (229 mm) |

68191 – GEM1FC8T9RS120DI

Magnetic Ballasts

1 – FC8T9, RS, 120V Magnetic Ballast (547RSWSTCP)


| General characteristics | |
|-------------------------------|-----------------------------------|
| Ballast Type | Magnetic - Rapid Start |
| Starting Method | Preheat |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 5% |
| Ambient Temperature (MAX) | 219°F (104°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto restart, Thermally protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| Std. pack | Pallet Pack | DIY Pack | IP Pack |
| | | | 68191 |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
|-------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| FC8T9 | 1 | 120 | 20 | 0.32 A | 0.76 | 3.8 | 52 | 1.8 | 30 | 50 / 10 |
| FC6T9 | 1 | 120 | 20 | 0.31 A | 0.78 | 3.7 | 53 | 1.8 | 30 | 50 / 10 |

Safety and performance    

- Magnetic ballast construction for all general fluorescent lighting
- Extends lamp life in frequently switched applications
- Color-coded ballast and package labels reduce misapplication errors (120V Yellow, 277V Red)

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 29 – see example on page 15-7 | |
| Case dimensions – Ref Drawing 9 – see page 15-8 | |
| Length (L) | 6.5 in (167 mm) |
| Width (W) | 1.75 in (44 mm) |
| Height (H) | 1.38 in (35 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | 6.4 in (164 mm) |
| Mount Length (M) | 6.0 in (152 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.0 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Length (± 1 in) | |
| Black | 15 in (381 mm) |
| White | 15 in (381 mm) |
| Red | 9 in (229 mm) |
| Blue | 9 in (229 mm) |

Magnetic Ballasts

For T8 and T12 Straight Lamps and 2 Pin CFL Lamps

68192 – GEM220TS120DIY

Magnetic Ballasts

2 – F20T12, F15T8, F15T12, F14T12, 120V, Magnetic Ballast (447LRVLHTCP)

- Magnetic ballast construction for all general fluorescent lighting
- Extends lamp life in frequently switched applications
- Color-coded ballast and package labels reduce misapplication errors (120V Yellow, 277V Red)





| General characteristics | |
|-------------------------------|-----------------------------------|
| Ballast Type | Magnetic - Rapid Start |
| Starting Method | Preheat |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 5% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Thermally protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| Std. pack | Pallet Pack | DIY Pack | IP Pack |
| | | 68192 | |

| Dimensions | |
|---|-----------------|
| Wiring diagram – LFL PS2 – see example on page 15-7 | |
| Case dimensions – Ref Drawing 9 – see page 15-8 | |
| Length (L) | 6.5 in (167 mm) |
| Width (W) | 1.75 in (44 mm) |
| Height (H) | 1.38 in (35 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | 6.5 in (167 mm) |
| Mount Length (M) | 6.0 in (152 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.30 in (8 mm) |
| Weight | 1.55 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Length (± 1 in) | |
| Black | 15 in (381 mm) |
| Red | 15 in (381 mm) |
| Blue | 15 in (381 mm) |
| Yellow | 15 in (381 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| F20T12 | 2 | 120 | 32 | 0.50 A | 0.75 | 2.05 | 52 | 1.7 | 30 | 50 / 10 |
| F15T12 | 2 | 120 | 31 | 0.52 A | 0.88 | 2.51 | 50 | 1.7 | 30 | 50 / 10 |
| F15T8 | 2 | 120 | 30.5 | 0.52 A | 0.85 | 2.54 | 51 | 1.7 | 30 | 50 / 10 |

Safety and performance  UL Type 1 Outdoor  UL Type HL  UL Class P  UL US

68188 – GEM1CF13PH120

Magnetic Ballasts

120V Magnetic Ballast For one 2 Pin 13W CFL Lamp

- Magnetic ballast construction for all general fluorescent lighting
- Extends lamp life in frequently switched applications
- Color-coded ballast and package labels reduce misapplication errors (120V Yellow, 277V Red)

| General characteristics | |
|-------------------------------|-----------------------------------|
| Ballast Type | Magnetic - Rapid Start |
| Starting Method | Preheat |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 5% |
| Ambient Temperature (MAX) | 219°F (104°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto restart, Thermally protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| Std. pack | Pallet Pack | DIY Pack | IP Pack |
| | | | 68188 |

| Dimensions | |
|--|-----------------|
| Wiring diagram – LFL 24 – see example on page 15-7 | |
| Case dimensions – Ref Drawing 2 – see page 15-8 | |
| Length (L) | 3.06 in (78 mm) |
| Width (W) | 1.81 in (46 mm) |
| Height (H) | 1.5 in (38 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | 6.4 in (163 mm) |
| Mount Length (M) | 2.75 in (70 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 0.66 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths Length (± 1 in) | |
| Black | 12 in (305 mm) |
| Black | 12 in (305 mm) |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| CF1/013W/GX23 | 1 | 120 | 15.5 | 0.24 A | 0.93 | 6.00 | 50 | 1.6 | 15 | 50 / 10 |

Safety and performance  UL Type 1 Outdoor  UL Type HL  UL Class P

Magnetic Ballasts

Accessories

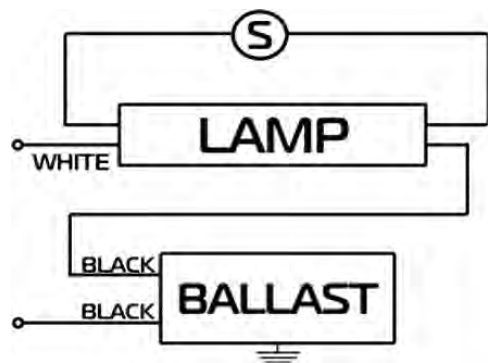
Fluorescent Accessories

| Fluorescent Accessories | Prod Code | Description | Application | Pack Qty. | Pack Type |
|-------------------------|-----------|-------------|--|-----------|-----------|
| Starters | 64818 | FS-2-C/TP | Starters for 14, 15 & 20 Watt Flu. Lamps | 6 | Tray Pack |
| | 64819 | FS-4-C/TP | Starters for 30 & 40 Watt Flu. Lamps | 6 | Tray Pack |
| | 64820 | FS-25-C/TP | Starters for 22 & 25 Watt Flu. Lamps | 6 | Tray Pack |
| | 64821 | FS-5-C/TP | Starters for 4, 6 & 8 Watt Flu. Lamps | 6 | Tray Pack |
| Sockets | 64822 | BP-LP/TP | Low Profile Socket Set for Bi-Pin Flu. Lamps | 7 | Tray Pack |
| | 64823 | BP/TP | Socket Set for Bi-Pin Flu. Lamps | 7 | Tray Pack |
| | 64824 | BP-FM/TP | Face Mount Socket Set for Bi-Pin Flu. Lamps | 7 | Tray Pack |
| | 64825 | SL-SS/TP | Socket Set for Slimline Flu. Lamps | 3 | Tray Pack |

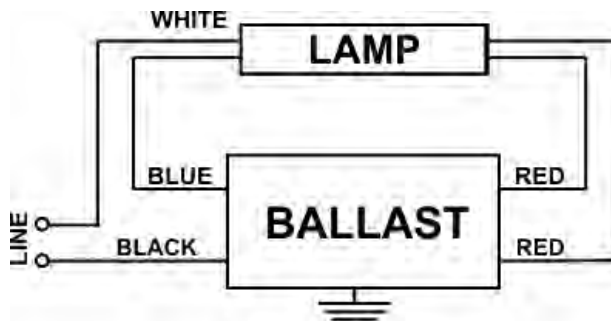
Wiring Diagrams

Magnetic Ballasts

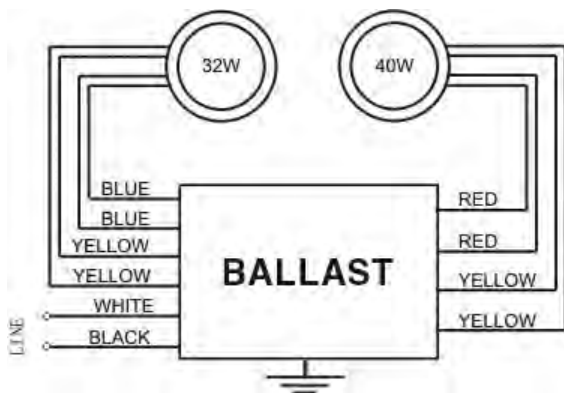
LFL 21



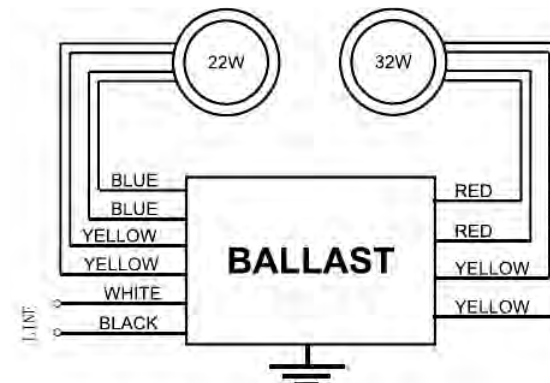
LFL 22



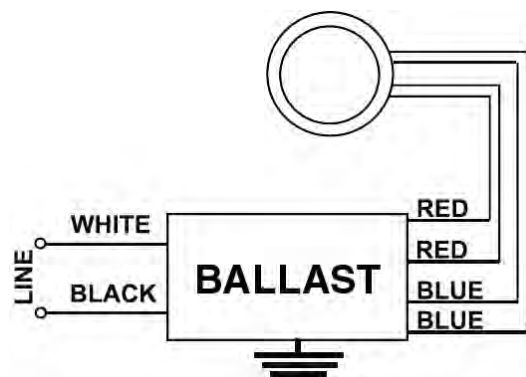
LFL 037



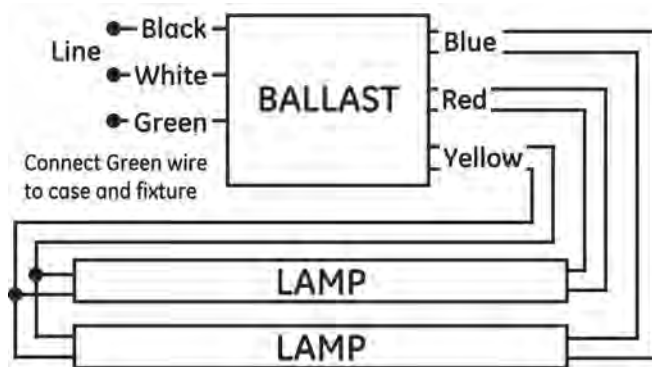
LFL 038



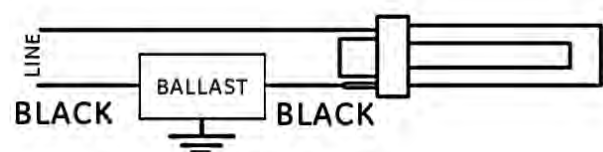
LFL 29



LFL PS2



LFL 24



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

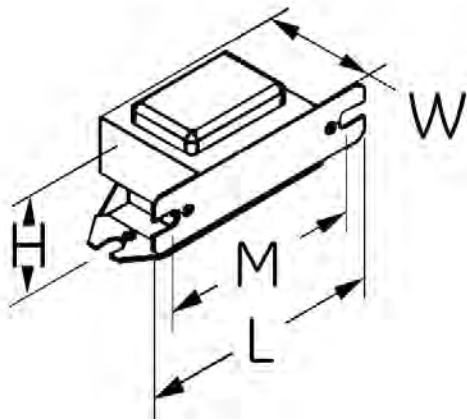
Compact Fluorescent

HID Electronic & Electromagnetic

Case Dimensions

Magnetic Ballasts

Drawing 2



Drawing 9

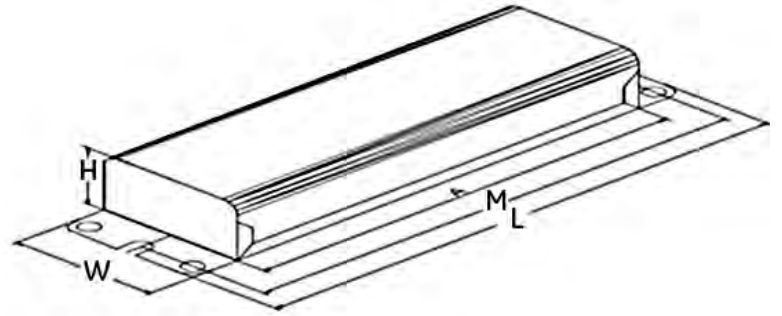


Table of Contents

Sign Ballasts

Understanding Sign Ballasts 16-2

Sign Ballasts

 For T12 High Output Lamps..... 16-3

Wiring Diagrams..... 16-7

Case Dimensions 16-9

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

Sign Ballasts

For T12 High Output Lamps

72103 – GESB-0412-12-IP

Sign Ballasts

T12HO Sign Ballast 4 to 12 ft, 1 to 2 lamps

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Magnetic – T12 Sign Illuminating |
| Starting Method | Rapid start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | |
| Additional Info | Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 72103 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| | 2 | 120 | 170 | 1.48 A | 0.89 | 0.52 | 98 | 1.9 | 15 | -20/-30 |
| F72T12/HO | 1 | 120 | 100 | 0.92 A | 0.81 | 0.81 | 92 | 2.0 | 35 | -20/-30 |
| F96T12/HO | 1 | 120 | 120 | 1.03 A | 0.84 | 0.70 | 96 | 2.0 | 25 | -20/-30 |
| | 2 | 120 | 130 | 1.13 A | 0.85 | 0.65 | 97 | 2.0 | 20 | -20/-30 |
| F48T12/HO | 1 | 120 | 80 | 0.82 A | 0.77 | 0.96 | 84 | 2.1 | 55 | -20/-30 |
| F24T12/HO | 2 | 120 | 90 | 0.90 A | 0.78 | 0.87 | 84 | 2.1 | 55 | -20/-30 |

Safety and performance  UL Type 2 Outdoor  UL Listed cUL Listed 3-Year Warranty

- High-output ballasts for rugged outdoor sign cabinet applications
- Reliable low-temperature starting – as low as -20°F
- Ideal for high-moisture environments – UL Type 2 Outdoor and HL rating
- Class P thermal protection

| Dimensions | |
|--|-------------------|
| Wiring diagrams – Sign 0412 – see example on page 16-7 | |
| Case dimensions – Ref Drawing S1 – see page 16-9 | |
| Length (L) | 11.75 in (298 mm) |
| Width (W) | 3.19 in (81 mm) |
| Height (H) | 2.6 in (68 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | |
| Mount Length (M) | 11.0 in (279 mm) |
| Mount Width (X or F) | 3.19 in (81 mm) |
| Mount Slots (MS) | |
| Weight | 8.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | Varies |
| Remote Mounting Wire Gauge | Varies |
| Lead lengths | Length (± 1 in) |
| White and Black | 24 in (610 mm) |
| Brown and Blue | 80 in (2032 mm) |
| Orange/Black | 60 in (1524 mm) |
| Orange, Red and Yellow | 60 in (1524 mm) |
| Blue/White | 72 in (1829 mm) |

72104 – GESB-0620-24-IP

Sign Ballasts

T12HO Sign Ballast 6 to 20 ft, 2 to 4 lamps

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Magnetic – T12 Sign Illuminating |
| Starting Method | Rapid start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | |
| Additional Info | Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 72104 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| F60T12/HO | 4 | 120 | 300 | 2.56 A | 1.06 | 0.35 | 95 | 1.7 | 15 | -20 / -30 |
| F72T12/HO | 3 | 120 | 240 | 2.34 A | 0.96 | 0.40 | 99 | 1.8 | 15 | -20 / -30 |
| F36T12/HO | 2 | 120 | 115 | 1.41 A | 0.87 | 0.76 | 87 | 2.0 | 45 | -20 / -30 |

Safety and performance  UL Type 2 Outdoor  UL Listed cUL Listed 3-Year Warranty

- High-output ballasts for rugged outdoor sign cabinet applications
- Reliable low-temperature starting – as low as -20°F
- Ideal for high-moisture environments – UL Type 2 Outdoor and HL rating
- Class P thermal protection

| Dimensions | |
|--|-------------------|
| Wiring diagrams – Sign 0620 – see example on page 16-8 | |
| Case dimensions – Ref Drawing S1 – see page 16-9 | |
| Length (L) | 11.75 in (298 mm) |
| Width (W) | 3.19 in (81 mm) |
| Height (H) | 2.6 in (68 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | |
| Mount Length (M) | 11.0 in (279 mm) |
| Mount Width (X or F) | 3.19 in (81 mm) |
| Mount Slots (MS) | |
| Weight | 16.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | Varies |
| Remote Mounting Wire Gauge | Varies |
| Lead lengths | Length (± 1 in) |
| White and Black | 24 in (610 mm) |
| Brown and Blue | 80 in (2032 mm) |
| Orange/Black | 60 in (1524 mm) |
| Orange, Red and Yellow | 60 in (1524 mm) |
| Blue/White | 72 in (1829 mm) |

Sign Ballasts

For T12 High Output Lamps

72105 – GESB-1224-24-IP

Sign Ballasts

T12HO Sign Ballast 12 to 24 ft, 2 to 4 lamps

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Magnetic - T12 Sign Illuminating |
| Starting Method | Rapid start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | |
| Additional Info | Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 72105 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| F72T12/HO | 4 | 120 | 285 | 2.70 A | 0.84 | 0.29 | 99 | 1.7 | 10 | -20 / -30 |
| | 3 | 120 | 230 | 2.10 A | 0.82 | 0.36 | 96 | 1.7 | 15 | -20 / -30 |
| | 2 | 120 | 170 | 1.60 A | 0.82 | 0.48 | 87 | 1.7 | 25 | -20 / -30 |

Safety and performance  UL Type 2 Outdoor  UL Listed  cUL Listed  Class P 3-Year Warranty

- High-output ballasts for rugged outdoor sign cabinet applications
- Reliable low-temperature starting - as low as -20°F
- Ideal for high-moisture environments - UL Type 2 Outdoor and HL rating
- Class P thermal protection

| Dimensions | |
|--|-------------------|
| Wiring diagrams - Sign 1224 - see example on page 16-8 | |
| Case dimensions - Ref Drawing S1 - see page 16-9 | |
| Length (L) | 11.75 in (298 mm) |
| Width (W) | 3.19 in (81 mm) |
| Height (H) | 2.6 in (68 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | |
| Mount Length (M) | 11.0 in (279 mm) |
| Mount Width (X or F) | 3.19 in (81 mm) |
| Mount Slots (MS) | |
| Weight | 16.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | Varies |
| Remote Mounting Wire Gauge | Varies |
| Lead lengths | Length (± 1 in) |
| White and Black | 24 in (610 mm) |
| Brown and Blue | 80 in (2032 mm) |
| Orange/Black | 60 in (1524 mm) |
| Orange, Red and Yellow | 60 in (1524 mm) |
| Blue/White | 72 in (1829 mm) |

72106 – GESB-1240-46-IP

Sign Ballasts


T12HO Sign Ballast 12 to 40 ft, 4 to 6 lamps

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Magnetic - T12 Sign Illuminating |
| Starting Method | Rapid start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | |
| Additional Info | Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 72106 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| (2) F96T12/HO + (4) F72T12/HO | 6 | 120 | 466 | 4.00 A | 0.78 | 0.17 | 98 | 1.6 | 10 | -20 / -30 |
| F72T12/HO | 5 | 120 | 372 | 3.50 A | 0.77 | 0.21 | 90 | 1.7 | 15 | -20 / -30 |
| F48T12/HO | 5 | 120 | 237 | 2.90 A | 0.72 | 0.30 | 69 | 1.8 | 20 | -20 / -30 |
| F36T12/HO | 4 | 120 | 196 | 2.80 A | 0.62 | 0.32 | 59 | 1.9 | 35 | -20 / -30 |

Safety and performance  UL Type 2 Outdoor  UL Listed  cUL Listed 3-Year Warranty

- High-output ballasts for rugged outdoor sign cabinet applications
- Reliable low-temperature starting - as low as -20°F
- Ideal for high-moisture environments - UL Type 2 Outdoor and HL rating
- Class P thermal protection

| Dimensions | |
|--|-------------------|
| Wiring diagrams - Sign 1240 - see example on page 16-8 | |
| Case dimensions - Ref Drawing S1 - see page 16-9 | |
| Length (L) | 11.75 in (298 mm) |
| Width (W) | 3.19 in (81 mm) |
| Height (H) | 2.6 in (68 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | |
| Mount Length (M) | 11.0 in (279 mm) |
| Mount Width (X or F) | 3.19 in (81 mm) |
| Mount Slots (MS) | |
| Weight | 18.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | Varies |
| Remote Mounting Wire Gauge | Varies |
| Lead lengths | Length (± 1 in) |
| White and Black | 24 in (610 mm) |
| Brown and Blue | 80 in (2032 mm) |
| Orange/Black | 60 in (1524 mm) |
| Orange, Red and Yellow | 60 in (1524 mm) |
| Blue/White | 72 in (1829 mm) |

Sign Ballasts

For T12 High Output Lamps

72107 – GESB-2040-24-IP

Sign Ballasts

T12HO Sign Ballast 20 to 40 ft, 2 to 4 lamps

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Magnetic - T12 Sign Illuminating |
| Starting Method | Rapid start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 15% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Enclosure Type | Metal Can |
| Additional Info | Inherently Thermally Protected, UL Class P |

Electrical characteristics


| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 72107 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
|------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| F120T12/HO | 4 | 120 | 464 | 4.00 A | 0.85 | 0.18 | 97 | 1.7 | 12 | -22 / -30 |
| | 3 | 120 | 357 | 3.40 A | 0.82 | 0.23 | 89 | 1.7 | 15 | -22 / -30 |
| | 2 | 120 | 255 | 3.00 A | 0.75 | 0.29 | 71 | 1.8 | 30 | -22 / -30 |

Safety and performance  UL Type 2 Outdoor  UL Listed UL Type HL 3-Year Warranty

- High-output ballasts for rugged outdoor sign cabinet applications
- Reliable low-temperature starting - as low as -20°F
- Ideal for high-moisture environments - UL Type 2 Outdoor and HL rating
- Class P thermal protection

Dimensions

Wiring diagrams – Sign 2040 – see example on page 16-8

Case dimensions – Ref Drawing S1 – see page 16-9

| | |
|------------|------------------|
| Length (L) | 19.5 in (495 mm) |
| Width (W) | 3.2 in (81 mm) |
| Height (H) | 2.4 in (62 mm) |

Mounting dimensions

| | |
|----------------------------------|------------------|
| Bracket Length (BL) | |
| Mount Length (M) | 18.6 in (473 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| Weight | 22.2 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | Varies |
| Remote Mounting Wire Gauge | Varies |

Lead lengths **Length (± 1 in)**

| | |
|------------------|-----------------|
| White and Black | 24 in (610 mm) |
| Brown and Yellow | 72 in (1829 mm) |
| Blue and Red | 80 in (2032 mm) |
| Blue/White | 54 in (1372 mm) |

72108 – GESB-2448-46-IP

Sign Ballasts

T12HO Sign Ballast 6 to 12 ft, 4 to 6 lamps

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Magnetic - T12 Sign Illuminating |
| Starting Method | Rapid start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 15% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Enclosure Type | Metal Can |
| Additional Info | Inherently Thermally Protected, UL Class P |

Electrical characteristics

| | |
|--------------------------|-------|
| Supply Current Frequency | 60 Hz |
|--------------------------|-------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 72108 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
|-----------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| F96T12/HO | 6 | 120 | 621 | 5.20 A | 0.86 | 0.14 | 99 | 1.6 | 10 | -20 / -30 |
| | 5 | 120 | 546 | 4.70 A | 0.87 | 0.16 | 96 | 1.6 | 10 | -20 / -30 |
| F72T12/HO | 5 | 120 | 453 | 4.30 A | 0.80 | 0.18 | 87 | 1.7 | 15 | -20 / -30 |
| | 4 | 120 | 373 | 4.00 A | 0.72 | 0.19 | 78 | 1.7 | 20 | -20 / -30 |

Safety and performance  UL Type 2 Outdoor  UL Listed UL Type HL 3-Year Warranty

- High-output ballasts for rugged outdoor sign cabinet applications
- Reliable low-temperature starting - as low as -20°F
- Ideal for high-moisture environments - UL Type 2 Outdoor and HL rating
- Class P thermal protection

Dimensions

Wiring diagrams – Sign 2448 – see example on page 16-8

Case dimensions – Ref Drawing S1 – see page 16-9

| | |
|------------|------------------|
| Length (L) | 19.5 in (495 mm) |
| Width (W) | 3.2 in (81 mm) |
| Height (H) | 2.4 in (62 mm) |

Mounting dimensions

| | |
|----------------------------------|------------------|
| Bracket Length (BL) | |
| Mount Length (M) | 18.6 in (473 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| Weight | 22.2 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | Varies |
| Remote Mounting Wire Gauge | Varies |

Lead lengths **Length (± 1 in)**

| | |
|------------------------|-----------------|
| White and Black | 24 in (610 mm) |
| Orange, Brown and Blue | 50 in (1270 mm) |
| Orange/Black | 50 in (1270 mm) |
| Red | 80 in (2032 mm) |
| Blue/White | 72 in (1829 mm) |
| Yellow | 70 in (1778 mm) |

Sign Ballasts

For T12 High Output Lamps

88921 – USB-0412-12-IP

Sign Ballasts



4 to 12 ft, 1 to 2 lamps

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Magnetic – T12 Sign Illuminating |
| Starting Method | Rapid start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | |
| Additional Info | Inherently Thermally Protected, UL Class P |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 88921 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| F72T12/HO | 2 | 120 | 160 | 1.35 A | 1.00 | 0.62 | 90 | | | -20 / -29 |

Safety and performance  UL Type 2 Outdoor  UL Type HL  CSA  UL Listed

Note: This product is no longer manufactured. Remaining stock will be sold.

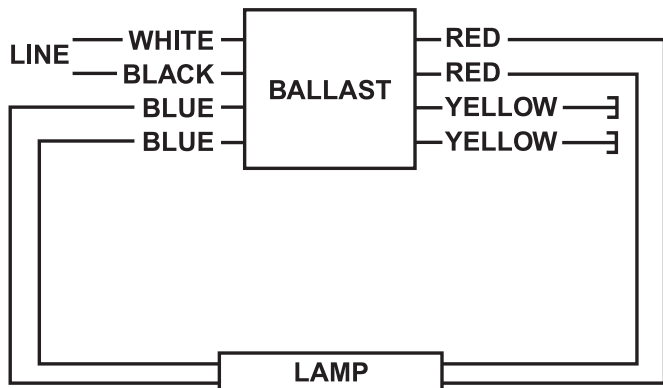
- High-output ballasts for rugged outdoor sign cabinet applications
- Reliable low-temperature starting – as low as -20°F
- Ideal for high-moisture environments – UL Type 2 Outdoor and HL rating
- Class P thermal protection

| Dimensions | |
|--|------------------------|
| Wiring diagrams – Sign S1A, Sign S2A – see example on page 16-7 | |
| Case dimensions – Ref Drawing S1 – see page 16-9 | |
| Length (L) | 10.5 in (269 mm) |
| Width (W) | 3.19 in (81 mm) |
| Height (H) | 1.75 in (44 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | 11.7 in (297 mm) |
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| Weight | 8.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | Varies |
| Remote Mounting Wire Gauge | Varies |
| Lead lengths | Length (± 1 in) |
| White and Black | 24 in (610 mm) |
| Blue and Red | 38 in (965 mm) |
| Yellow | 48 in (1219 mm) |

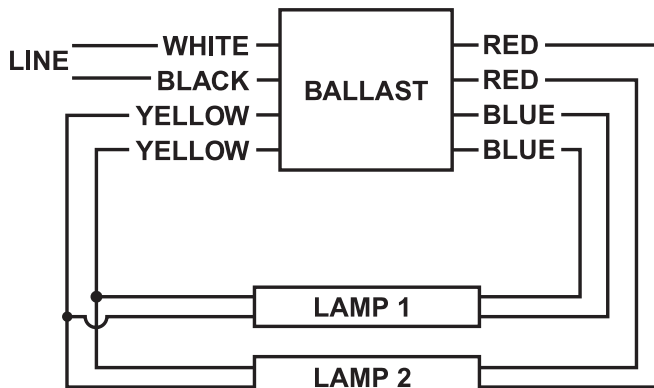
Wiring Diagrams

Sign Ballasts

SIGN S1A

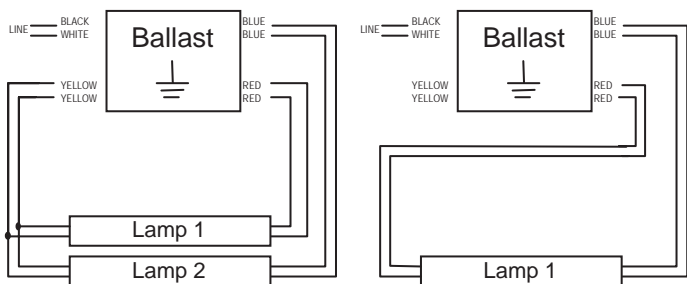


SIGN S2A



MOUNT LAMPS WITHIN 1 OF GROUNDED METAL REFLECTOR

SIGN 0412



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

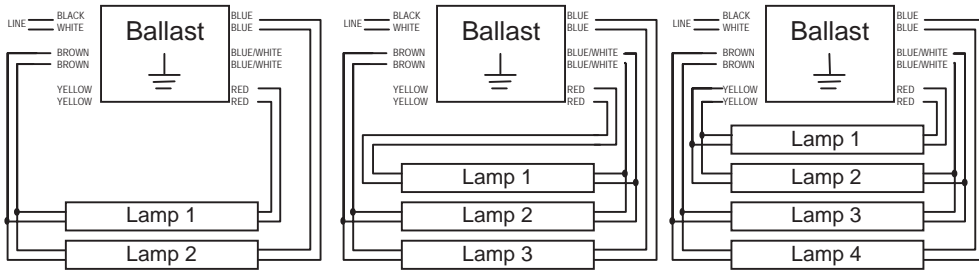
Compact Fluorescent

HID Electronic & Electromagnetic

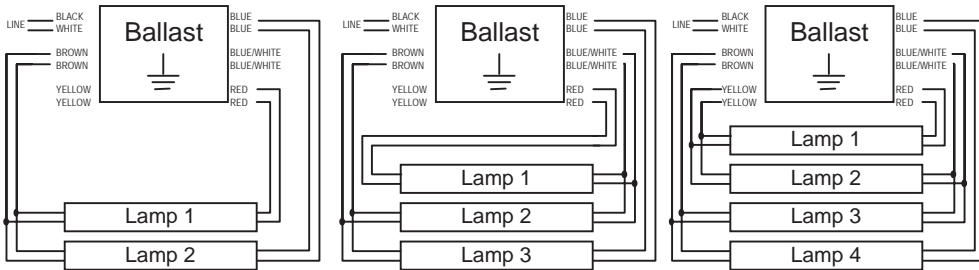
Wiring Diagrams

Sign Ballasts

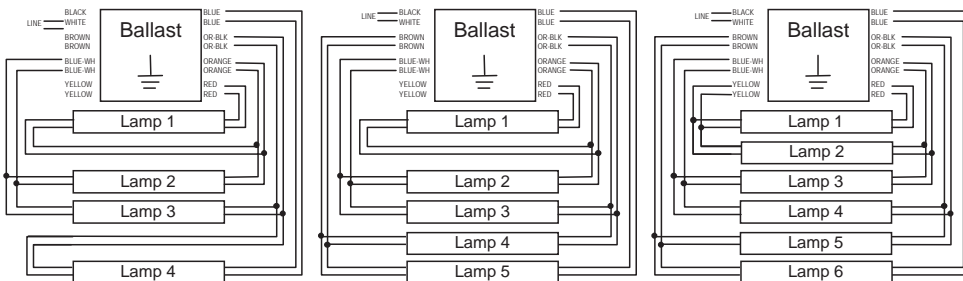
SIGN 0620



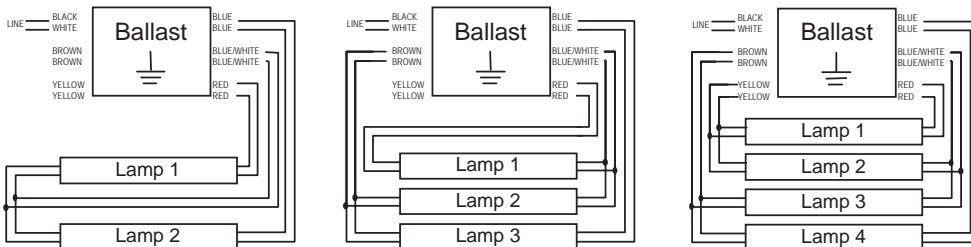
SIGN 1224



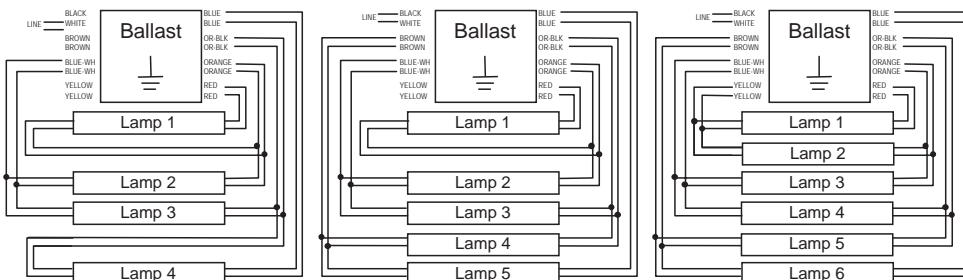
SIGN 1240



SIGN 2040



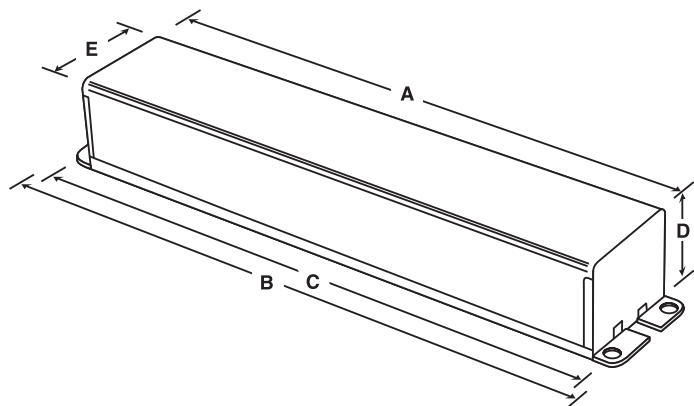
SIGN 2448



Case Dimensions

Sign Ballasts

S1



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

Table of Contents

Compact Fluorescent Ballasts

Understanding Compact Fluorescent Ballasts17-2

ProLine® CFL Electronic Ballasts
 For 13 – 70W T4 CFL Lamps 17-6

High-Lumen Biax® UltraMax® Instant Start Ballasts17-10

High-Lumen Biax® UltraStart® Programmed Start Ballasts17-13

CFL Magnetic Ballasts
 For 5 – 26W Preheat CFL Lamps.....17-14

Wiring Diagrams.....17-15

Case Dimensions17-17

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic



Understanding Compact Fluorescent Ballasts

GE compact fluorescent (CFL) ballasts provide energy saving alternatives to halogen, incandescent or HID light sources. GE Multivolt ProLine® CFL programmed start ballasts combine universal voltage (108-305V) technology with multi-lamp capability, dual entry color-coded connectors and ultra system reliability to create an industry leading CFL solution for commercial and residential applications.

UltraMax® and UltraStart® High Lumen Biax® ballasts with the High Lumen WattMiser® Biax® lamp provides the perfect solution for high efficiency and high lumen output in a small space.

UltraMax® Instant Start Ballasts:

- For use in long burn cycles (>10 hr cycles) to maintain lamp life
- High efficiency (>90%) design
- Universal voltage (120-277V)
- Striation control circuitry
- Small compact housing

UltraStart® Programmed Start Ballasts:

- For use in shorter burn cycles (<3 hr cycles) to extend lamp life
- High efficiency (>90%) cathode cutout design
- Universal voltage (120-277V)
- Striation control circuitry
- Small compact housing
- Parallel lamp operation
- <700ms fast starting time
- Ballasts available for both F40/30W and F40/25W lamps

Multivolt ProLine® CFL ballasts are offered in three different configurations:

1) -SE description – dual entry (side or bottom) connectors, 2) -BES – bottom entry with studs for mounting to junction boxes and 3) -3W – 3-way mounting kits that allow you to have all three mounting options with one kit.

Multivolt ProLine® CFL ballasts come with a five-year ballast and one-year lamp limited warranty. These ballasts also meet the EPA's ENERGY STAR® fixture program requirements with a Consumer Class B EMI rating for residential applications, as well as a high power factor ballast design.

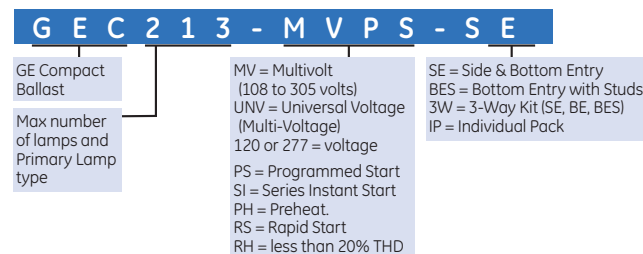
Use the GE Multivolt ProLine® CFL Multi-Lamp compatibility chart (page 17-3) to find the right ballast for your need.

ProLine® CFL Date Code System

Date Code Format: 01 200801 = Week2008 = Year

UltraMax® and UltraStart® Biax® ballasts have the same date code system as all linear fluorescent ballasts.

GE Compact Fluorescent Ballast nomenclature



GE Multivolt ProLine® CFL Multi-Lamp Capability

| | Lamp Type | GEC213-MVPS | GEC218-MVPS | GEC226-MVPS | GEC242-MVPS | GEC140MAX-A | GEC240MAX-A | GEC340MAX-A | GEC225MVPS-A | GEC240MVPS-A |
|---|-----------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|
| T4 | 1 x CFQ13W (G24q) CFTR13W (GX24q) | x | | | | | | | | |
| | 2 x CFQ13W (G24q) CFTR13W (GX24q) | x | | | | | | | | |
| | 1 x CFQ18W (G24q) CFTR18W (GX24q) | x | x | | | | | | | |
| | 2 x CFQ18W (G24q) CFTR18W (GX24q) | | x | | | | | | | |
| | 1 x CFQ26W (G24q) CFTR26W (GX24q) | | x | x | x | | | | | |
| | 2 x CFQ26W (G24q) CFTR26W (GX24q) | | | x | x | | | | | |
| | 1 x CFQ32W (G24q) CFTR32W (GX24q) | | | x | x | | | | | |
| | 2 x CFQ32W (G24q) CFTR32W (GX24q) | | | | x | | | | | |
| | 1 x CFQ42W (G24q) CFTR42W (GX24q) | | | x | x | | | | | |
| | 2 x CFQ42W (G24q) CFTR42W (GX24q) | | | | x | | | | | |
| 1 x 57W (CFTR/GX24q) | | | | x | | | | | | |
| 1 x 70W (CFTR/GX24q) | | | | x | | | | | | |
| 1 x FC9T5-22W (G10q) | | | | x | | | | | | |
| 2 x FC9T5-22W (G10q) | | | | x | | | | | | |
| 1 x FC12T5-40W (G10q) | | | | x | | | | | | |
| 2 x FC12T5-40W (G10q) | | | | x | | | | | | |
| 1 x 22W + 1 x 40W (FC9T5 + FC12T5) (G10q) | | | | x | | | | | | |
| 1 x FC16T9 (G10q) | | | x | | | | | | | |
| 1 x FC16T9 40W (G10q) | | | | | | | | | | |
| 2 x F14T5 (G5) | | | | | | | | | | |
| 2 x F13T5 (G5) | | | | | | | | | | |
| 2 x F24T5/HO (G5) | | | | x | | | | | | |
| 1 x F28T5/HE (G5) | | | | | | x | x | | | |
| 2 x F28T5/HE (G5) | | | | | | | x | x | | |
| 3 x F28T5/HE (G5) | | | | | | | | x | | |
| 1 x FT18W (2G11) | | | | | | | | | | |
| 2 x FT18W (2G11) | | | | x | | | | | | |
| 1 x FT24W (2G11) | | | | | x | | | | | |
| 2 x FT24W (2G11) | | | | x | x | | | | | |
| 1 x FT36W (2G11) or CFM36W (2G11) | | | | | x | | | | | |
| 2 x FT36W (2G11) or CFM36W (2G11) | | | | | x | | | | | |
| 1 x FT39W (2G11) | | | | | x | | | | | |
| 2 x FT39W (2G11) | | | | | x | | | | | |
| 1 x FT40/25W or FT40/28W (2G11) | | | | | | x | x | | x | |
| 2 x FT40/25W or FT40/28W (2G11) | | | | | | | x | x | x | |
| 3 x FT40/25W or FT40/28W (2G11) | | | | | | | | x | | |
| 1 x FT40W (2G11) | | | | | x | | x | | x | |
| 2 x FT40W (2G11) | | | | | x | | x | | x | |
| 3 x FT40W (2G11) | | | | | | | | x | | |
| 1 x FT55W (2G11) | | | | | x | | | x | | |
| 1 x F32T8 (G13) | | | | | | x* | x* | | | |
| 2 x F32T8 (G13) | | | | | | | x* | x* | | |
| 3 x F32T8 (G13) | | | | | | | | x* | | |
| T8 | 1 x CFS10W (GR10q) | x | | | | | | | | |
| | 2 x CFS10W (GR10q) | x | | | | | | | | |
| | 1 x CFS16W (GR10q) | x | | | | | | | | |
| 2D | 2 x CFS16W (GR10q) | | x | | | | | | | |
| | 1 x CFS21W (GR10q) | | x | | | | | | | |
| | 2 x CFS21W (GR10q) | | x | x | | | | | | |
| | 1 x CFS28W (GR10q) | | x | | x | | | | | |
| | 2 x CFS28W (GR10q) | | | | x | | | | | |
| | 1 x CFS38W (GR10q) | | | | | | | | | |
| | 2 x CFS38W (GR10q) | | | | | | | | | |
| | 1 x CFS55W (GR10q) | | | | | x | | | | |

* GEC ballast offers End of Lamp Life (EOL) protection with F32T8 lamps

Ballasts

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

CFL – Cross Reference Chart

| GE | Universal | Advance | Osram | Robertson |
|---------------|-------------------|---|--|------------------|
| GE213-MVPS-3W | C213UNVSE/BE/BES | ICF-2513-H1-LD | QTP 1/2X13CF/UNV | PSM213CQMY |
| GE218-MVPS-3W | C218UNVSE/BE/BES | ICF-2518H1-LD REL-2Q18 VEL-2Q18 R-2Q18-4P-TP V-2Q18-4P-TP | QTP1/2X18CF/UNV | PSM218CQMY |
| GE226MVPS-3W | C218UNVSE/BE/BES | ICF-2526-H1-LD REL-1T32 VEL-1T32 REL-1T32 VEL-1T42 | QTP 1X26/32/42CF/UNV QTP 2X26/UNV QTP 1/2XCF/UNV | PSM226CQMY |
| GE242-MVPS-3W | C2642UNVSE/BE/BES | ICF-2S26-M1-BS-QS ICF-2S26-M1-BS-QS ICF-2S42-M2-BS | QTP 2X26/32/42CF/UNV | PSM226CQMVDWCE/S |

Specifications: Multivolt ProLine® CFL Quick Reference Chart

| Preliminary | Lamp Type | # of Lamps | Input Volts | Dual Side/ Bottom Exit-SE | Bottom Exit with Studs - BES | 3-Way Mount Kit - 3W | Input Watts 2Lamp/ 1Lamp | Line Current 2Lamp/ 1Lamp | Power Factor 2Lamp/ 1Lamp | MAX THD % 2Lamp/ 1Lamp | Ballast Factor 2Lamp/ 1Lamp | Ballast Efficiency Factor 2Lamp/ 1Lamp |
|----------------|-----------------|-------------|-------------|---------------------------------|------------------------------------|----------------------------|--------------------------------|------------------------------------|------------------------------------|---------------------------------|--------------------------------------|--|
| GEC213-MVPS-xx | CFQ13W/G24q | 2 or 1 lamp | 120 | 63101 | 63091 | 63089 | 29/16 | 0.25/16 | 0.99/96 | 10 | 1.00 | 3.45/6.25 |
| | | | 277 | | | | 29/16 | 0.11/06 | 0.99/96 | 10 | 1.00 | 3.45/6.25 |
| | | | 120 | | | | 29/16 | 0.25/16 | 0.99/96 | 10 | 1.00 | 3.45/6.25 |
| | CFTR13W/GX24q | 2 or 1 lamp | 277 | | | | 29/16 | 0.11/06 | 0.99/96 | 10 | 1.00 | 3.45/6.25 |
| | | | 120 | | | | 20 | 0.17 | 0.99 | 12 | 1.00 | 5.00 |
| | | | 277 | | | | 20 | 0.07 | 0.97 | 12 | 1.00 | 5.00 |
| | CFQ18W/GX24q | 1 | 120 | | | | 20 | 0.17 | 0.99 | 12 | 1.00 | 5.00 |
| | | | 277 | | | | 20 | 0.07 | 0.97 | 12 | 1.00 | 5.00 |
| | | | 120 | | | | 31 | 0.26 | 0.99 | 10 | 1.00 | 3.22 |
| | F14T5 | 1 | 277 | | | | 31 | 0.12 | 0.98 | 10 | 1.00 | 3.22 |
| | | | 120 | | | | 30 | 0.25 | 0.99 | 10 | 1.00 | 3.33 |
| | | | 277 | | | | 30 | 0.11 | 0.98 | 10 | 1.00 | 3.33 |
| | F13T5 | 1 | 120 | | | | 23/13 | 0.19/11 | 0.97/96 | 11/14 | 0.95/1.05 | 4.13/8.08 |
| | | | 277 | | | | 23/13 | 0.09/05 | 0.97/96 | 11/14 | 0.95/1.05 | 4.13/8.08 |
| | | | 120 | | | | 17 | 0.14 | 0.96 | 12 | 1.00 | 5.88 |
| CFS10W/GR10q | 2 or 1 lamp | 277 | 17 | 0.06 | 0.96 | 12 | 1.00 | 5.88 | | | | |
| | | 120 | 35/19 | 0.3/16 | 0.99/97 | 10 | 0.95/1.00 | 2.71/5.26 | | | | |
| | | 277 | 35/19 | 0.13/07 | 0.99/97 | 10 | 0.95/1.0 | 2.71/5.26 | | | | |
| GEC218-MVPS-xx | CFQ26W/G24q | 2 or 1 lamp | 120 | 63096 | 63098 | 63093 | 39/20 | 0.33/17 | 0.97 | 10 | 1.05 | 2.69/5.25 |
| | | | 277 | | | | 39/20 | 0.14/08 | 0.99/97 | 10 | 1.05 | 2.69/5.25 |
| | | | 120 | | | | 28 | 0.24 | 0.99 | 12 | 1.00 | 3.57 |
| | CFTR18W/GX24q | 2 or 1 lamp | 277 | | | | 28 | 0.10 | 0.96 | 12 | 1.00 | 3.57 |
| | | | 120 | | | | 28 | 0.24 | 0.99 | 12 | 1.00 | 3.57 |
| | | | 277 | | | | 28 | 0.10 | 0.96 | 12 | 1.00 | 3.57 |
| | CFQ26W/G24q | 1 | 120 | | | | 40/20 | 0.33/16 | 0.99/97 | 10/15 | 0.91/9 | 2.28/4.5 |
| | | | 277 | | | | 40/20 | .14/07 | 0.99/97 | 10/15 | 0.91/90 | 2.28/4.5 |
| | | | 120 | | | | 37 | 0.31 | 0.99 | 10 | 1.00 | 2.70 |
| | CFTR26W/GX24q | 1 | 277 | | | | 37 | 0.13 | 0.99 | 10 | 1.00 | 2.70 |
| | | | 120 | | | | 31 | 0.26 | 0.99 | 10 | 1.00 | 3.23 |
| | | | 277 | | | | 31 | 0.11 | 0.97 | 10 | 1.00 | 3.23 |
| | CFS21W/GR10q | 2 or 1 lamp | 120 | | | | 51/27 | 0.43/23 | 0.99/98 | 10 | 1.00 | 1.96/3.7 |
| | | | 277 | | | | 51/27 | 0.19/1 | 0.99/98 | 10 | 1.00 | 1.96/3.7 |
| | | | 120 | | | | 54/29 | 0.45/24 | 0.99 | 10 | 1/1.1 | 1.85/3.79 |
| CFS16W/GR10q | 2 | 277 | 54/29 | 0.2/11 | 0.99/98 | 10 | 1/1.1 | 1.85/3.79 | | | | |
| | | 120 | 46 | 0.38 | 0.98 | 10 | 0.98 | 2.13 | | | | |
| | | 277 | 46 | 0.17 | 0.98 | 10 | 0.98 | 2.13 | | | | |
| CFS28W/GR10q | 1 | 120 | 36 | 0.31 | 0.98 | 10 | 0.98 | 2.72 | | | | |
| | | 277 | 36 | 0.13 | 0.98 | 10 | 0.98 | 2.72 | | | | |
| | | 120 | 51 | 0.04 | 0.99 | 10 | 1.12 | 2.20 | | | | |
| CFQ26W/G24q | 2 or 1 lamp | 277 | 51 | 0.18 | 0.99 | 10 | 1.12 | 2.20 | | | | |
| | | 120 | 36 | 0.30 | 0.99 | 10 | 0.93 | 2.58 | | | | |
| | | 277 | 36 | 0.13 | 0.97 | 12 | 0.93 | 2.58 | | | | |
| CFTR26W/GX24q | 2 or 1 lamp | 277 | 48 | 0.41 | 0.99 | 10 | 0.93 | 1.94 | | | | |
| | | 120 | 48 | 0.18 | 0.9 | 10 | 0.93 | 1.94 | | | | |
| | | 277 | 51 | 0.44 | 0.99 | 10 | 1.00 | 1.96 | | | | |
| CFTR42W/GX24q | 1 | 120 | 51 | 0.19 | 0.98 | 10 | 1.00 | 1.96 | | | | |
| | | 277 | 43 | 0.36 | 0.99 | 10 | 1.00 | 2.33 | | | | |
| | | 120 | 43 | 0.16 | 0.97 | 10 | 1.00 | 2.33 | | | | |
| CFTR32W/GX24q | 1 | 277 | 94/47 | 0.77/4 | 1.00 | 10 | 1.00 | 1.14/2.13 | | | | |
| | | 120 | 93/47 | 0.38/18 | 1.00 | 10 | 1.00 | 1.08/2.13 | | | | |
| | | 277 | 63/42 | 0.53/35 | 0.95/96 | 10 | 0.95/96 | 1.51/2.29 | | | | |
| CFS21W/GR10q | 2 | 277 | 63/42 | 0.23/13 | 0.95/96 | 12 | 0.95/96 | 1.51/2.29 | | | | |
| | | 120 | 54/32 | 0.45/27 | 0.9/1.0 | 10 | 0.9/1.0 | 1.67/3.12 | | | | |
| | | 277 | 54/32 | 0.21/13 | 0.9/1.0 | 12 | 0.9/1.0 | 1.67/3.12 | | | | |
| FT18W/2G11 | 2 | 120 | 63/33 | 0.52/27 | 0.78/8 | 10 | 0.78/8 | 1.25/2.45 | | | | |
| | | 277 | 62/33 | 0.23/13 | 0.79/80 | 10/15 | 0.79/8 | 1.27/2.44 | | | | |
| | | 120 | 82/45 | 0.69/37 | 0.95/1.0 | 10 | 0.95/1.0 | 1.16/2.22 | | | | |
| FT24W/2G11 | 2 | 277 | 82/45 | 0.3/17 | 0.95/1.0 | 10/12 | 0.95/1.0 | 1.16/2.22 | | | | |
| | | 120 | 70/37 | 0.59/31 | 0.8/84 | 10 | 0.8/84 | 1.13/2.24 | | | | |
| | | 277 | 70/37 | 0.26/14 | 0.81/84 | 10/15 | 0.81/84 | 1.15/2.24 | | | | |
| FT24W/2G11 | 2 or 1 lamp | 120 | 52/28 | 0.44/23 | 1.10 | 10 | 1.10 | 2.11/3.97 | | | | |
| | | 277 | 52/28 | 0.19/11 | 1.1/1.11 | 12 | 1.1/1.11 | 2.11/3.92 | | | | |
| | | 120 | 58 | 0.49 | 1.00 | 10 | 1.00 | 1.72 | | | | |
| F24T5 HO | 2 | 277 | 58 | 0.22 | 1.00 | 12 | 1.00 | 1.72 | | | | |
| | | 120 | 73 | 0.61 | 1.00 | 10 | 1.00 | 1.37 | | | | |
| | | 277 | 73 | 0.27 | 1.00 | 12 | 1.00 | 1.37 | | | | |
| FC12T5 40W | 2 or 1 lamp | 277 | 43 | 0.36 | 0.71 | 10 | 0.71 | 1.65 | | | | |
| | | 120 | 44 | 0.16 | 0.72 | 12 | 0.72 | 1.66 | | | | |
| | | 277 | 82/45 | 0.69/37 | 0.95/1.00 | 10 | 0.95/1.00 | 1.16/2.22 | | | | |
| FC9T6 22W | 2 or 1 lamp | 277 | 82/45 | 0.3/17 | 0.95/1.00 | 10/12 | 0.95/1.00 | 1.16/2.22 | | | | |
| | | 120 | 63/33 | 0.52/27 | 0.78/80 | 10 | 0.78/80 | 1.25/2.45 | | | | |
| | | 277 | 62/33 | 0.23/13 | 0.79/80 | 10/15 | 0.79/8 | 1.27/2.44 | | | | |
| CFTR57W/GX24q | 1 | 277 | 54/26 | 0.45/22 | 1/92 | 10 | 1/92 | 1.85/3.56 | | | | |
| | | 120 | 54/27 | 0.2/1 | 1/92 | 12/15 | 1/92 | 1.85/3.48 | | | | |
| | | 277 | 60/34 | 0.5/29 | 0.95/1.0 | 10 | 0.95/1 | 1.6/2.94 | | | | |
| CFTR70W/GX24q | 1 | 277 | 60/34 | 0.22/14 | 0.97/1.00 | 10/15 | 0.97/1.0 | 1.62/2.94 | | | | |
| | | 120 | 67 | 0.55 | 0.90 | 10 | 0.90 | 1.34 | | | | |
| | | 277 | 67 | 0.25 | 0.90 | 10 | 0.90 | 1.34 | | | | |
| FT55W/2G11 | 1 | 277 | 33 | 0.28 | 0.49 | 10 | 0.49 | 1.48 | | | | |
| | | 120 | 32 | 0.13 | 0.49 | 10 | 0.49 | 1.53 | | | | |
| | | 277 | | | | | | | | | | |
| FT40W/2G11 | 2 or 1 lamp | 277 | | | | | | | | | | |
| | | 120 | | | | | | | | | | |
| | | 277 | | | | | | | | | | |
| FT36W/2G11 | 2 or 1 lamp | 277 | | | | | | | | | | |
| | | 120 | | | | | | | | | | |
| | | 277 | | | | | | | | | | |
| FT24W/2G11 | 2 or 1 lamp | 277 | | | | | | | | | | |
| | | 120 | | | | | | | | | | |
| | | 277 | | | | | | | | | | |
| CFS28W/GR10q | 2 or 1 lamp | 277 | | | | | | | | | | |
| | | 120 | | | | | | | | | | |
| | | 277 | | | | | | | | | | |
| FC9T5+FC12T5 | 1+1 | 277 | | | | | | | | | | |
| | | 120 | | | | | | | | | | |
| | | 277 | | | | | | | | | | |
| GEC242-MVPS-xx | CFS55W/GRY10Q-3 | 1 | 277 | 63101 | 63102 | 63100 | | | | | | |
| | | | 120 | | | | | | | | | |
| | | | 277 | | | | | | | | | |

Ballasts
T8 Instant Start
T8 Programmed Start
T8/T5 Dimming
T5 Electronic Programmed Start
T12 Electronic & High Output
Magnetic
Sign
Compact Fluorescent
HID Electronic & Electromagnetic

ProLine® CFL Electronic Ballasts

Compact Fluorescent Ballasts For 13 – 70W T4 CFL Lamps

63091 – GEC213-MVPS-BES
63092 – GEC213-MVPS-SE
63089 – GEC213-MVPS-3W

ProLine® CFL Electronic Ballasts
 2 or 1 – CFQ13W/G24q 120-227V ProLine® PS

- Multi-voltage technology means a single ballast handles voltage from 108V to 305V
- Programmed starting for extended lamp life
- End-of-Lamp-Life protection
- Color coded poke-in connectors simplifies wiring

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 104°F (40°C) |
| Case Temperature (MAX) | 70 °C (158 °F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | End-of-Life Protection (EOL), Thermally protected, Universal voltage |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|---------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 63089, 63092, 63091 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | TOH % (<=) | Min. Starting Temp (°F/°C) |
|---------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|------------|----------------------------|
| CFQ13W/G24q | 2 | 120 | 32 | 0.26 A | 1.04 | 3.30 | 99 | 1.7 | 10 | -20 / -29 |
| | 2 | 277 | 32 | 0.12 A | 1.04 | 3.30 | 96 | 1.7 | 10 | -20 / -29 |
| | 1 | 120 | 15 | 0.19 A | 1.09 | 7.30 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 15 | 0.06 A | 1.09 | 7.30 | 89 | 1.7 | 18 | -20 / -29 |
| CFTR13W/GX24q | 2 | 120 | 32 | 0.27 A | 1.07 | 3.30 | 99 | 1.7 | 10 | -20 / -29 |
| | 2 | 277 | 32 | 0.12 A | 1.07 | 3.30 | 96 | 1.7 | 10 | -20 / -29 |
| | 1 | 120 | 16 | 0.13 A | 1.10 | 6.90 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 16 | 0.07 A | 1.10 | 6.90 | 88 | 1.7 | 18 | -20 / -29 |
| CFS10W/GR10q | 2 | 120 | 26 | 0.22 A | 1.06 | 4.10 | 99 | 1.7 | 10 | -20 / -29 |
| | 2 | 277 | 25 | 0.10 A | 1.06 | 4.20 | 94 | 1.7 | 11 | -20 / -29 |
| | 1 | 120 | 13 | 0.10 A | 1.09 | 8.40 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 13 | 0.07 A | 1.09 | 8.40 | 84 | 1.7 | 21 | -20 / -29 |
| CFQ18W/G24q | 1 | 120 | 19 | 0.16 A | 0.99 | 5.20 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 19 | 0.07 A | 0.99 | 5.20 | 89 | 1.7 | 16 | -20 / -29 |
| CFTR18W/GX24q | 1 | 120 | 19 | 0.16 A | 0.96 | 5.10 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 19 | 0.08 A | 0.96 | 5.10 | 88 | 1.7 | 15 | -20 / -29 |
| CFS16W/GR10q | 1 | 120 | 17 | 0.14 A | 1.00 | 5.90 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 17 | 0.07 A | 1.00 | 5.90 | 90 | 1.7 | 16 | -20 / -29 |

Safety and performance

FCC Part 18 Class B  UL Class P  UL Type 1 Outdoor No PCB's ANSI Standard C82.11-Cons 2002 ANSI Standard C62.41-1991

Dimensions

Wiring diagram – CFL 1-2 – see example on page 17-15

Case dimensions – Ref Drawing -13 – see page 17-17

| Physical Parameters | 3W | BES | SE |
|---------------------|-----------------|------------------|-----------------|
| Length (L) | 5.0 in (127 mm) | 4.26 in (107 mm) | 5.0 in (127 mm) |
| Width (W) | 2.4 in (61 mm) | 2.4 in (61 mm) | 2.4 in (61 mm) |
| Height (H) | 1.0 in (25 mm) | 1.0 in (25 mm) | 1.0 in (25 mm) |

Mounting dimensions

| | |
|----------------------------------|-----------------------------------|
| Bracket Length (BL) | |
| Mount Length (M) | 4.63 in (118 mm) |
| Mount Width (X or F) | 2.4 in (61 mm) |
| Mount Slots (MS) | |
| Weight | 0.381 lbs 0.423 lbs 0.395 lbs |
| Exit Type | Dual Entry (SE/BE, BES, 3W) |
| Remote Mounting Distance to Lamp | 20 ft |
| Remote Mounting Wire Gauge | 18 AWG |

ProLine® CFL Electronic Ballasts

Compact Fluorescent Ballasts For 13 – 70W T4 CFL Lamps

- 63094 – GEC218-MVPS-BES
- 63096 – GEC218-MVPS-SE
- 63093 – GEC218-MVPS-3W

ProLine® CFL Electronic Ballasts

2 or 1 – CFQ18W/G24q 120-227V ProLine® PS

- Multi-voltage technology means a single ballast handles voltage from 108V to 305V
- Programmed starting for extended lamp life
- End-of-Lamp-Life protection
- Color coded poke-in connectors simplifies wiring

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid start |
| Starting Method | Programmed start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 104°F (40°C) |
| Case Temperature (MAX) | 70°C (158 °F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Thermally protected, Universal voltage |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------------------|-------------|----------|---------|
| 63093, 63096, 63094 | | | |

Dimensions

Wiring diagram – CFL 1-2 – see example on page 17-15

Case dimensions – Ref Drawing -13 – see page 17-17

| Physical Parameters | 3W | BES | SE |
|---------------------|-----------------|------------------|-----------------|
| Length (L) | 5.0 in (127 mm) | 4.26 in (107 mm) | 5.0 in (127 mm) |
| Width (W) | 2.4 in (61 mm) | 2.4 in (61 mm) | 2.4 in (61 mm) |
| Height (H) | 1.0 in (25 mm) | 1.0 in (25 mm) | 1.0 in (25 mm) |

| Mounting dimensions | | | |
|----------------------------------|-----------------------------|-----------|-----------|
| Bracket Length (BL) | | | |
| Mount Length (M) | 4.63 in (118 mm) | | |
| Mount Width (X or F) | 2.4 in (61 mm) | | |
| Mount Slots (MS) | | | |
| Weight | 0.412 lbs | 0.454 lbs | 0.426 lbs |
| Exit Type | Dual Entry (SE/BE, BES, 3W) | | |
| Remote Mounting Distance to Lamp | 20 ft | | |
| Remote Mounting Wire Gauge | 18 AWG | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | TQH % (<=) | Min. Starting Temp (°F/°C) |
|---------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|------------|----------------------------|
| CFQ18W/G24q | 2 | 120 | 43 | 0.35 A | 1.05 | 2.40 | 99 | 1.7 | 10 | -20 / -29 |
| | 2 | 277 | 42 | 0.15 A | 1.05 | 2.50 | 96 | 1.7 | 10 | -20 / -29 |
| | 1 | 120 | 21 | 0.17 A | 1.08 | 5.10 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 21 | 0.08 A | 1.08 | 5.10 | 88 | 1.7 | 15 | -20 / -29 |
| | 2 | 120 | 44 | 0.37 A | 1.04 | 2.40 | 99 | 1.7 | 10 | -20 / -29 |
| | 2 | 277 | 43 | 0.16 A | 1.04 | 2.40 | 96 | 1.7 | 10 | -20 / -29 |
| CFTR18W/GX24q | 1 | 120 | 22 | 0.19 A | 1.07 | 4.90 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 22 | 0.08 A | 1.07 | 4.90 | 87 | 1.7 | 14 | -20 / -29 |
| | 2 | 120 | 45 | 0.38 A | 0.86 | 1.90 | 99 | 1.7 | 10 | -20 / -29 |
| | 2 | 277 | 44 | 0.16 A | 0.86 | 2.00 | 96 | 1.7 | 10 | -20 / -29 |
| | 1 | 120 | 22 | 0.19 A | 0.93 | 4.20 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 22 | 0.09 A | 0.93 | 4.20 | 88 | 1.7 | 15 | -20 / -29 |
| CFS21W/GR10q | 2 | 120 | 39 | 0.32 A | 1.00 | 2.60 | 99 | 1.7 | 10 | -20 / -29 |
| | 2 | 277 | 38 | 0.14 A | 1.00 | 2.60 | 95 | 1.7 | 10 | -20 / -29 |
| CFS16W/GR10q | 1 | 120 | 22 | 0.19 A | 0.91 | 4.10 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 22 | 0.09 A | 0.92 | 4.20 | 89 | 1.7 | 14 | -20 / -29 |
| CFQ26W/GX24q | 1 | 120 | 26 | 0.21 A | 0.85 | 3.30 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 26 | 0.10 A | 0.85 | 3.30 | 89 | 1.7 | 14 | -20 / -29 |
| CFTR26W/GX24q | 1 | 120 | 25 | 0.21 A | 0.87 | 3.50 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 25 | 0.10 A | 0.87 | 3.50 | 91 | 1.7 | 13 | -20 / -29 |

Safety and performance

FCC Part 18 Class B  UL Class P  UL Type 1 Outdoor No PCB's ANSI Standard C82.11-Cons 2002 ANSI Standard C62.41-1991

ProLine® CFL Electronic Ballasts

Compact Fluorescent Ballasts For 13 – 70W T4 CFL Lamps

63098 – GEC226-MVPS-BES

63099 – GEC226-MVPS-SE

63097 – GEC226-MVPS-3W

ProLine® CFL Electronic Ballasts

2 – CFQ26W, FT24 or 1 – 24W CFTR32 120-227V ProLine® PS

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid start |
| Starting Method | Programmed start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 104°F (40°C) |
| Case Temperature (MAX) | 75°C (167°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto restart, Thermally protected, Universal voltage |

Electrical characteristics

| | |
|--------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |
|--------------------------|-------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------------------|-------------|----------|---------|
| 63098, 63099, 63097 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | TQH % (<=) | Min. Starting Temp (°F/°C) |
|---------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|------------|----------------------------|
| CFQ26W/G24q | 2 | 120 | 56 | 0.47 A | 1.02 | 1.82 | 99 | 1.7 | 10 | -20 / -29 |
| | 2 | 277 | 54 | 0.20 A | 1.02 | 1.89 | 97 | 1.7 | 11 | -20 / -29 |
| | 1 | 120 | 30 | 0.25 A | 1.04 | 3.47 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 30 | 0.12 A | 1.04 | 3.47 | 93 | 1.7 | 13 | -20 / -29 |
| | 2 | 120 | 64 | 0.53 A | 0.97 | 1.52 | 99 | 1.7 | 10 | -20 / -29 |
| | 2 | 277 | 64 | 0.23 A | 0.88 | 1.38 | 97 | 1.7 | 12 | -20 / -29 |
| CFTR26W/GX24q | 1 | 120 | 32 | 0.26 A | 10.01 | 3.16 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 32 | 0.12 A | 1.00 | 3.16 | 94 | 1.7 | 13 | -20 / -29 |
| CFS21W/GR10q | 2 | 120 | 56 | 0.47 A | 1.12 | 2.00 | 99 | 1.7 | 10 | -20 / -29 |
| | 2 | 277 | 55 | 0.20 A | 1.11 | 2.02 | 96 | 1.7 | 11 | -20 / -29 |
| CFTR42W/GX24q | 1 | 120 | 51 | 0.42 A | 0.92 | 1.80 | 99 | 1.7 | 10 | -20 / -29 |
| | 1 | 277 | 50 | 0.18 A | 0.92 | 1.84 | 97 | 1.7 | 12 | -20 / -29 |
| | 1 | 120 | 39 | 0.33 A | 1.24 | 3.18 | 99 | 1.7 | 10 | -20 / -29 |
| CFTR32W/GX24q | 1 | 277 | 39 | 0.15 A | 1.23 | 3.15 | 95 | 1.7 | 13 | -20 / -29 |
| | 1 | 120 | 40 | 0.33 A | 0.89 | 2.23 | 99 | 1.7 | 10 | -20 / -29 |
| FC16T9 40W | 1 | 277 | 40 | 0.14 A | 0.94 | 2.35 | 95 | 1.7 | 13 | -20 / -29 |
| | 1 | 120 | 27 | 0.23 A | 1.04 | 3.85 | 99 | 1.7 | 10 | -20 / -29 |
| FT24W/2G11 | 1 | 277 | 27 | 0.11 A | 1.10 | 4.07 | 91 | 1.7 | 14 | -20 / -29 |
| | 1 | 120 | 35 | 0.29 A | 0.94 | 2.69 | 99 | 1.7 | 10 | -20 / -29 |
| FT36W/2G11 | 1 | 277 | 35 | 0.13 A | 0.94 | 2.69 | 94 | 1.7 | 13 | -20 / -29 |
| | 1 | 120 | 33 | 0.27 A | 0.97 | 2.94 | 99 | 1.7 | 10 | -20 / -29 |
| FT39W/2G11 | 1 | 277 | 33 | 0.12 A | 0.98 | 2.97 | 94 | 1.7 | 14 | -20 / -29 |

Safety and performance

FCC Part 18 Class B  UL Class P  UL Type 1 Outdoor No PCB's ANSI Standard C82.11-Cons 2002 ANSI Standard C62.41-1991

- Multi-voltage technology means a single ballast handles voltage from 108V to 305V
- Programmed starting for extended lamp life
- End-of-Lamp-Life protection
- Color coded poke-in connectors simplifies wiring

Dimensions

Wiring diagram – CFL 1-2 – see example on page 17-15

Case dimensions – Ref Drawing -13 – see page 17-17

| Physical Parameters | 3W | BES | SE |
|---------------------|-----------------|------------------|-----------------|
| Length (L) | 5.0 in (127 mm) | 4.26 in (107 mm) | 5.0 in (127 mm) |
| Width (W) | 2.4 in (61 mm) | 2.4 in (61 mm) | 2.4 in (61 mm) |
| Height (H) | 1.0 in (25 mm) | 1.0 in (25 mm) | 1.0 in (25 mm) |

Mounting dimensions

| | | | |
|----------------------------------|-----------------------------|-----------|-----------|
| Bracket Length (BL) | | | |
| Mount Length (M) | 4.63 in (118 mm) | | |
| Mount Width (X or F) | 2.4 in (61 mm) | | |
| Mount Slots (MS) | | | |
| Weight | 0.419 lbs | 0.461 lbs | 0.434 lbs |
| Exit Type | Dual Entry (SE/BE, BES, 3W) | | |
| Remote Mounting Distance to Lamp | 12 ft | | |
| Remote Mounting Wire Gauge | 18 AWG | | |

ProLine® CFL Electronic Ballasts

Compact Fluorescent Ballasts For 13 – 70W T4 CFL Lamps

63101 – GEC242-MVPS-BES (replaces 47506)

63102 – GEC242-MVPS-SE (replaces 47509)

63100 – GEC242-MVPS-3W

ProLine® CFL Electronic Ballasts

2 – 42/36/32/28/26/24 watt 120-277V Proline® PS

- Electronic compact fluorescent ballasts for all general fluorescent applications
- Low-profile case

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid start |
| Starting Method | Programmed start |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 122°F (50°C) |
| Case Temperature (MAX) | 75°C (167°F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto restart, Thermally protected, Universal voltage |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | | |
|---------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 63101, 63102, 63100 | | | |

| Dimensions | |
|--|-----------------------------|
| Wiring diagram – CFL 1-2 – see example on page 17-15 | |
| Case dimensions – Ref Drawing 13 – see page 17-17 | |
| Length (L) | 5 in (127 mm) |
| Width (W) | 3.0 in (76 mm) |
| Height (H) | 1.38 in (35 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | 4.63 in (118 mm) |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| Weight | 0.90 lbs |
| Exit Type | Dual Entry (SE/BE, BES, 3W) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
|---------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| CFTR42W/GX24q | 2 | 120 | 94 | 0.77 A | 1.00 | 1.14 | 0.99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 93 | 0.38 A | 1.00 | 1.08 | 0.98 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 47 | 0.40 A | 1.00 | 2.13 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 47 | 0.18 A | 1.00 | 2.13 | 0.96 | 1.7 | 10 | 0/-18 |
| CFTR32W/GX24q | 2 | 120 | 63 | 0.53 A | 0.95 | 1.51 | 0.99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 63 | 0.23 A | 0.95 | 1.51 | 0.98 | 1.7 | 12 | 0/-18 |
| | 1 | 120 | 42 | 0.35 A | 0.96 | 2.29 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 42 | 0.13 A | 0.96 | 2.29 | 0.96 | 1.7 | 12 | 0/-18 |
| CFQ26W/G24q | 2 | 120 | 54 | 0.45 A | 0.90 | 1.67 | 0.99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 54 | 0.21 A | 0.90 | 1.67 | 0.97 | 1.7 | 12 | 0/-18 |
| CFTR26W/GX24q | 1 | 120 | 32 | 0.27 A | 1.00 | 3.12 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 32 | 0.13 A | 1.00 | 3.12 | 0.95 | 1.7 | 12 | 0/-18 |
| CFM36W/2G10 | 2 | 120 | 63 | 0.52 A | 0.78 | 1.25 | 0.99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 62 | 0.23 A | 0.79 | 1.27 | 0.98 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 33 | 0.27 A | 0.80 | 2.45 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 33 | 0.13 A | 0.80 | 2.44 | 0.94 | 1.7 | 15 | 0/-18 |
| ET39W/2G11 | 2 | 120 | 82 | 0.69 A | 0.95 | 1.16 | 0.99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 82 | 0.30 A | 0.95 | 1.16 | 0.98 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 45 | 0.37 A | 1.00 | 2.22 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 45 | 0.17 A | 1.00 | 2.22 | 0.96 | 1.7 | 12 | 0/-18 |
| FC12T5 40W | 2 | 120 | 70 | 0.59 A | 0.80 | 1.13 | 0.99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 70 | 0.26 A | 0.81 | 1.15 | 0.98 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 37 | 0.31 A | 0.84 | 2.24 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 37 | 0.14 A | 0.84 | 2.24 | 0.95 | 1.7 | 15 | 0/-18 |
| FC9T5 22W | 2 | 120 | 52 | 0.44 A | 1.10 | 2.11 | 0.99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 52 | 0.19 A | 1.10 | 2.11 | 0.97 | 1.7 | 12 | 0/-18 |
| | 1 | 120 | 28 | 0.23 A | 1.10 | 3.97 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 28 | 0.11 A | 1.11 | 3.92 | 0.93 | 1.7 | 12 | 0/-18 |
| CFTR57W/GX24q | 1 | 120 | 58 | 0.49 A | 1.0 | 1.72 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 58 | 0.22 A | 1.0 | 1.72 | 0.97 | 1.7 | 12 | 0/-18 |
| CFTR70W/GX24q | 1 | 120 | 73 | 0.61 A | 1.0 | 1.37 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 73 | 0.27 A | 1.0 | 1.37 | 0.97 | 1.7 | 12 | 0/-18 |
| FT55W/2G11 | 1 | 120 | 43 | 0.36 A | 0.71 | 1.65 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 44 | 0.16 A | 0.72 | 1.66 | 0.96 | 1.7 | 12 | 0/-18 |
| FT40W/2G11 | 2 | 120 | 82 | 0.69 A | 0.95 | 1.16 | 0.99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 82 | 0.30 A | 0.95 | 1.16 | 0.98 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 45 | 0.37 A | 1.00 | 2.22 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 45 | 0.17 A | 1.00 | 2.22 | 0.96 | 1.7 | 12 | 0/-18 |
| FT36W/2G11 | 2 | 120 | 63 | 0.52 A | 0.78 | 1.25 | 0.99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 62 | 0.23 A | 0.79 | 1.27 | 0.98 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 33 | 0.27 A | 0.80 | 2.45 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 33 | 0.13 A | 0.80 | 2.44 | 0.94 | 1.7 | 15 | 0/-18 |
| FT24W/2G11 | 2 | 120 | 54 | 0.45 A | 1.00 | 1.85 | 0.99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 54 | 0.20 A | 1.00 | 1.85 | 0.97 | 1.7 | 12 | 0/-18 |
| | 1 | 120 | 26 | 0.22 A | 0.92 | 3.56 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 27 | 0.10 A | 0.92 | 3.48 | 0.92 | 1.7 | 15 | 0/-18 |
| CFS28W/GR10q | 2 | 120 | 60 | 0.50 A | 0.95 | 1.60 | 0.99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 60 | 0.22 A | 0.97 | 1.62 | 0.98 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 34 | 0.29 A | 1.00 | 2.94 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 34 | 0.14 A | 1.00 | 2.94 | 0.93 | 1.7 | 15 | 0/-18 |
| FC9T5+FC12T5 | 1+1 | 120 | 67 | 0.55 A | 0.90 | 1.34 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1+1 | 277 | 67 | 0.25 A | 0.90 | 1.34 | 0.98 | 1.7 | 10 | 0/-18 |
| GRY10q-3 | 1 | 120 | 33 | 0.28 A | 0.49 | 1.48 | 0.99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 32 | 0.13 A | 0.49 | 1.53 | 0.94 | 1.7 | 10 | 0/-18 |

Safety and performance FCC Part 18 Class B at 120 volts  UL Class P  UL Listed  cUL

High-Lumen Biax® UltraMax® Instant Start Compact Fluorescent Ballasts

75948 – GEC140MAX-A

High-Lumen Biax® UltraMax® Instant Start

1 – FT40W-25W/2G11 Biax - 120-277V UltraMax® Instant Start

- Electronic compact fluorescent ballasts for all general fluorescent applications
- Low-profile case
- Multi-Voltage technology handles voltage from 120 to 277V
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Anti-Striation Control for better light quality, with no striations
- Lamp End-of-Life Safety Shutdown Circuit with Re-Lamping Auto-reset



| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Standard Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70 °C (158 °F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | End-of-Life Protection (EOL), Thermally protected |

| Electrical characteristics | |
|----------------------------|--------------|
| Supply Current Frequency | 50 Hz /60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75948 | | | |

| Dimensions | |
|--|-----------------|
| Wiring diagram – CFL IS1 – see example on page 17-16 | |
| Case dimensions – Ref Drawing -A – see page 17-17 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (+ 1 in) |
| Blue | 31 in (787 mm) |
| Red | 31 in (787 mm) |
| White | 25 in (635 mm) |
| Black | 25 in (635 mm) |

| Specifications by lamp and wattage | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|----------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | Ballast Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (*F/°C) |
| FT40W/4P | 1 | 120 | 38 | 0.32 A | 0.90 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 38 | 0.14 A | 0.90 | 95 | 1.7 | 10 | 0/-18 |
| FT40W/28W/4P | 1 | 120 | 34 | 0.29 A | 1.00 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 34 | 0.13 A | 1.00 | 95 | 1.7 | 10 | 0/-18 |
| FT40W/25W/4P | 1 | 120 | 31 | 0.25 A | 1.00 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 31 | 0.12 A | 1.00 | 90 | 1.7 | 10 | 0/-18 |
| E32T8 | 1 | 120 | 33 | 0.27 A | 0.94 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 33 | 0.13 A | 0.94 | 95 | 1.7 | 10 | 0/-18 |
| F28T5/HE | 1 | 120 | 36 | 0.30 A | 1.10 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 36 | 0.14 A | 1.10 | 95 | 1.7 | 10 | 0/-18 |

Safety and performance      

High-Lumen Biax® UltraMax® Instant Start Compact Fluorescent Ballasts

71435 – GEC240MAX-A

High-Lumen Biax® UltraMax® Instant Start

2 or 1 – FT40W-25W/2G11 Biax - 120-277V UltraMax® Instant Start

- Electronic compact fluorescent ballasts for all general fluorescent applications
- Low-profile case
- Multi-Voltage technology handles voltage from 120 to 277V
- Energy saving, high efficiency instant start electronic ballast (> 90%)
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Anti-Striation Control for better light quality, with no striations
- Lamp End-of-Life Safety Shutdown Circuit with Re-Lamping Auto-reset

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – High Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70 °C (158 °F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | End-of-Life Protection (EOL), Thermally protected |

| Electrical characteristics | |
|----------------------------|--------------|
| Supply Current Frequency | 50 Hz /60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 71435 | | | |

| Dimensions | |
|--|-----------------|
| Wiring diagram – CFL IS2 – see example on page 17-16 | |
| Case dimensions – Ref Drawing – A – see page 17-17 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 12 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in) |
| Blue | 31 in (787 mm) |
| Red | 31 in (787 mm) |
| White | 25 in (635 mm) |
| Black | 25 in (635 mm) |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | Ballast Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
|--------------|------------|------------|--------------|-------------------|----------------|---------------------|-------------------|----------|----------------------------|
| FT40W/4P | 2 | 120 | 69 | 0.58 A | 0.90 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 68 | 0.25 A | 0.90 | 95 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 42 | 0.35 A | 1.00 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 42 | 0.16 A | 1.00 | 95 | 1.7 | 15 | 0/-18 |
| FT40W/28W/4P | 2 | 120 | 63 | 0.54 A | 1.00 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 62 | 0.23 A | 1.00 | 95 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 38 | 0.32 A | 1.11 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 38 | 0.14 A | 1.11 | 95 | 1.7 | 15 | 0/-18 |
| FT40W/25W/4P | 2 | 120 | 58 | 0.50 A | 1.00 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 57 | 0.21 A | 1.00 | 90 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 35 | 0.29 A | 1.15 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 35 | 0.13 A | 1.15 | 95 | 1.7 | 15 | 0/-18 |
| F32T8 | 2 | 120 | 63 | 0.54 A | 0.94 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 62 | 0.23 A | 0.94 | 95 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 38 | 0.32 A | 1.08 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 38 | 0.14 A | 1.08 | 95 | 1.7 | 15 | 0/-18 |
| F28T5/HE | 2 | 120 | 69 | 0.59 A | 1.10 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 68 | 0.25 A | 1.10 | 95 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 41 | 0.35 A | 1.26 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 41 | 0.15 A | 1.26 | 95 | 1.7 | 15 | 0/-18 |

Safety and performance



High-Lumen Biax® UltraMax® Instant Start Compact Fluorescent Ballasts

71436 – GEC340MAX-A

High-Lumen Biax® UltraMax® Instant Start

3 – FT40W-25W/2G11 Biax - 120-277V UltraMax® Instant Start

General characteristics

| | |
|-------------------------------|---|
| Ballast Type | Electronic - High Efficiency Instant Start |
| Starting Method | Instant start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70 °C (158 °F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | End-of-Life Protection (EOL), Thermally protected |

Electrical characteristics

| | |
|--------------------------|--------------|
| Supply Current Frequency | 50 Hz /60 Hz |
|--------------------------|--------------|

Order information

| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
|---------|-------------|----------|---------|
| 71436 | | | |

Specifications by lamp and wattage

| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | Ballast Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
|--------------|------------|------------|--------------|-------------------|----------------|---------------------|-------------------|----------|----------------------------|
| FT40W/4P | 3 | 120 | 100 | 0.86 A | 0.90 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 99 | 0.36 A | 0.90 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 76 | 0.65 A | 0.98 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 75 | 0.27 A | 0.98 | 95 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 93 | 0.79 A | 1.00 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 91 | 0.33 A | 1.00 | 95 | 1.7 | 10 | 0/-18 |
| FT40W/28W/4P | 2 | 120 | 70 | 0.59 A | 1.07 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 69 | 0.25 A | 1.07 | 95 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 85 | 0.73 A | 1.00 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 84 | 0.31 A | 1.00 | 95 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 64 | 0.53 A | 1.11 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 63 | 0.23 A | 1.11 | 95 | 1.7 | 10 | 0/-18 |
| FT40W/25W/4P | 3 | 120 | 92 | 0.78 A | 0.94 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 90 | 0.33 A | 0.94 | 95 | 1.7 | 10 | 0/-18 |
| | 2 | 120 | 69 | 0.59 A | 1.03 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 68 | 0.25 A | 1.03 | 95 | 1.7 | 10 | 0/-18 |
| | 3 | 120 | 102 | 0.87 A | 1.10 | 99 | 1.7 | 10 | 0/-18 |
| | 3 | 277 | 100 | 0.37 A | 1.10 | 99 | 1.7 | 10 | 0/-18 |
| F32T8 | 2 | 120 | 76 | 0.66 A | 1.19 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 75 | 0.28 A | 1.19 | 95 | 1.7 | 10 | 0/-18 |
| F28T5/HE | 2 | 120 | 75 | 0.28 A | 1.19 | 95 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 75 | 0.28 A | 1.19 | 95 | 1.7 | 10 | 0/-18 |

- Electronic compact fluorescent ballasts for all general fluorescent applications
- Low-profile case
- Multi-Voltage technology handles voltage from 120 to 277V
- Energy saving, high efficiency instant start electronic ballast (> 90%)
- Instant start electronic ballast for long lamp starting cycles and low initial cost
- Anti-Striation Control for better light quality, with no striations
- Lamp End-of-Life Safety Shutdown Circuit with Re-Lamping Auto-reset

Dimensions

Wiring diagram – CFL IS3– see example on page 17-16

Case dimensions – Ref Drawing - A – see page 17-17

| | |
|------------|-----------------|
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |

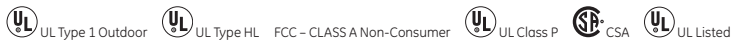
Mounting dimensions

| | |
|----------------------------------|-----------------|
| Bracket Length (BL) | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 12 ft |
| Remote Mounting Wire Gauge | 18 AWG |

Lead lengths

| | |
|-----------------|----------------|
| Length (± 1 in) | |
| Blue | 31 in (787 mm) |
| Red | 31 in (787 mm) |
| White | 25 in (635 mm) |
| Black | 25 in (635 mm) |

Safety and performance



High-Lumen Biax® UltraStart® Programmed Start Compact Fluorescent Ballasts

71437 – GEC240MVPS-A

High-Lumen Biax® UltraStart® Programmed Start for 40W

2 or 1 – FT40W/2G11 Biax - 120-277V UltraStart® Programmed Start

- Electronic compact fluorescent ballasts for all general fluorescent applications
- Low-profile case
- Multi-Voltage technology handles voltage from 120 to 277V
- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Parallel Lamp Operation keeps lights on when one lamp fails
- Anti-Striation Control for better light quality, with no striations
- Lamp End-of-Life Safety Shutdown Circuit with Re-Lamping Auto-reset
- Starting time visually the same as instant start

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70 °C (158 °F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Thermally protected, Universal voltage |

| Electrical characteristics | |
|----------------------------|---------------|
| Supply Current Frequency | 50 Hz / 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 71437 | | | |

| Dimensions | |
|---|------------------------|
| Wiring diagram – CFL PS2 – see example on page 17-16 | |
| Case dimensions – Ref Drawing – A – see page 17-17 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 12 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| | Length (± 1 in) |
| Black | 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Yellow | 33 in (838 mm) |
| White | 25 in (635 mm) |

| Specifications by lamp and wattage | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|----------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | Ballast Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| FT40W/4P | 2 | 120 | 70 | 0.59 A | 0.90 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 69 | 0.25 A | 0.90 | 95 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 42 | 0.36 A | 1.04 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 42 | 0.17 A | 1.04 | 95 | 1.7 | 15 | 0/-18 |

Safety and performance UL Type 1 Outdoor UL Type HL FCC – CLASS A Non-Consumer UL Class P CSA UL Listed

75950 – GEC225MVPS-A

High-Lumen Biax® UltraStart® Programmed Start for 25W and 28W

2 or 1 – FT25W/2G11 Biax - 120-277V UltraStart® Programmed Start

- Electronic compact fluorescent ballasts for all general fluorescent applications
- Low-profile case
- Multi-Voltage technology handles voltage from 120 to 277V
- A new generation of ultra-efficient Programmed Start ballasts (> 90% efficiency)
- Parallel Lamp Operation keeps lights on when one lamp fails
- Anti-Striation Control for better light quality, with no striations
- Lamp End-of-Life Safety Shutdown Circuit with Re-Lamping Auto-reset

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Program / Rapid Start |
| Starting Method | Programmed start |
| Lamp Wiring | Parallel |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 70 °C (158 °F) |
| Ballast Factor | Normal |
| Power Factor Correction | Active |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Auto-restart, Thermally protected, Universal voltage |

| Electrical characteristics | |
|----------------------------|---------------|
| Supply Current Frequency | 50 Hz / 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 75950 | | | |

| Dimensions | |
|---|------------------------|
| Wiring diagram – CFL PS2 – see example on page 17-16 | |
| Case dimensions – Ref Drawing – A – see page 17-17 | |
| Length (L) | 9.5 in (241 mm) |
| Width (W) | 1.7 in (43 mm) |
| Height (H) | 1.18 in (30 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | |
| Mount Length (M) | 8.9 in (226 mm) |
| Mount Width (X or F) | 1.18 in (30 mm) |
| Mount Slots (MS) | 0.3 in (8 mm) |
| Weight | 1.40 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| | Length (± 1 in) |
| Black | 25 in (635 mm) |
| Blue and Red | 33 in (838 mm) |
| Yellow | 33 in (838 mm) |
| White | 25 in (635 mm) |

| Specifications by lamp and wattage | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|----------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | Ballast Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| FT40W/28W/4P | 2 | 120 | 62 | 0.53 A | 1.00 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 61 | 0.23 A | 1.00 | 95 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 40 | 0.33 A | 1.17 | 99 | 1.7 | 10 | 0/-18 |
| | 1 | 277 | 40 | 0.15 A | 1.17 | 95 | 1.7 | 15 | 0/-18 |
| FT40W/25W/4P | 2 | 120 | 57 | 0.48 A | 1.00 | 99 | 1.7 | 10 | 0/-18 |
| | 2 | 277 | 56 | 0.21 A | 1.00 | 95 | 1.7 | 10 | 0/-18 |
| | 1 | 120 | 36 | 0.30 A | 1.22 | 99 | 1.7 | 10 | 0/-18 |
| FT40W/25W/4P | 1 | 277 | 36 | 0.14 A | 1.22 | 95 | 1.7 | 15 | 0/-18 |

Safety and performance UL Type 1 Outdoor UL Type HL FCC – CLASS A Non-Consumer UL Class P CSA UL Listed

CFL Magnetic Ballasts

Compact Fluorescent Ballasts For 5 – 26W Preheat CFL Lamps

87533 – GEM1CF13PH120

ProLine® CFL Magnetic Ballasts

1 – CFT/Q13W/GX23 Pre Heat 120 (4111H2P)

- Magnetic compact fluorescent ballast construction for all general fluorescent lighting

| General characteristics | |
|-------------------------------|---------------------|
| Ballast Type | Magnetic - Preheat |
| Starting Method | Preheat |
| Lamp Wiring | Series |
| Line Voltage Regulation (+/-) | 5% |
| Ambient Temperature (MAX) | 105°F (41°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Ballast Factor | Normal |
| Power Factor Correction | |
| Sound Rating | A (20-24 decibels) |
| Additional Info | Thermally protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | | |
|-------------------|-------------|----------|---------|
| 10 Pack | Pallet Pack | DIY Pack | IP Pack |
| 87533 | | | |

| Specifications by lamp and wattage | | | | | | | | | | |
|------------------------------------|------------|------------|--------------|-------------------|-----------------------|-------------------------|---------------------|-------------------|----------|----------------------------|
| Lamp | # of Lamps | Line Volts | System Watts | Nom. Line Current | System Ballast Factor | Ballast Efficacy Factor | Power Factor % (>=) | Crest Factor (<=) | THD (<=) | Min. Starting Temp (°F/°C) |
| CFQ13W/2P | 1 | 120 | 15 | 0.25 A | 0.90 | 6.00 | 50 | 1.7 | 10 | 50 / 10 |
| CFT13W/2P | 1 | 120 | 15 | 0.25 A | 0.90 | 6.00 | 50 | 1.7 | 10 | 50 / 10 |

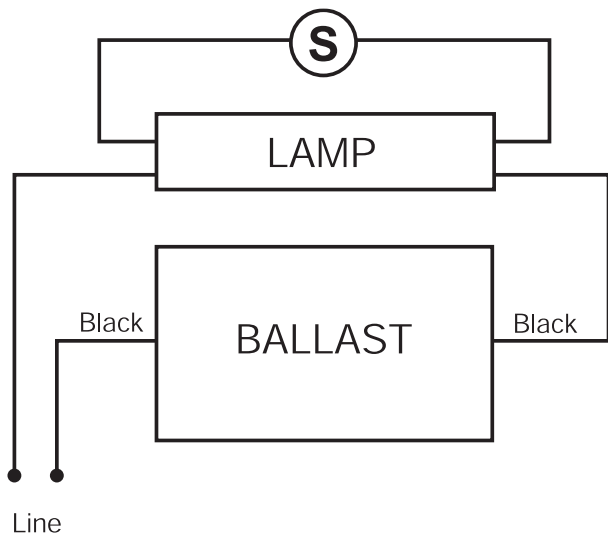
Safety and performance  UL Type HL  UL Class P  cUL Listed  UL Listed

| Dimensions | |
|--|------------------------|
| Wiring diagram – CFL 21 – see example on page 17-15 | |
| Case dimensions – Ref Drawing 2 – see page 17-17 | |
| Length (L) | 3.0 in (77 mm) |
| Width (W) | 1.25 in (32 mm) |
| Height (H) | 1.75 in (44 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | 3.0 in (77 mm) |
| Mount Length (M) | 2.75 in (70 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.2 in (6 mm) |
| Weight | 0.62 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | Length (± 1 in) |
| Black | 7 in (178 mm) |
| Black | 9 in (229 mm) |

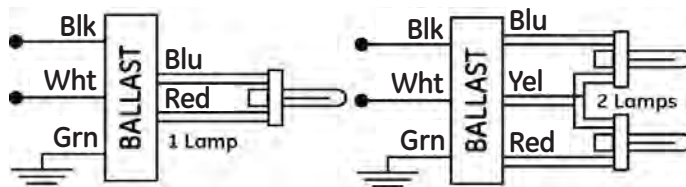
Wiring Diagrams

Compact Fluorescent Ballasts

CFL 21



CFL 1-2



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

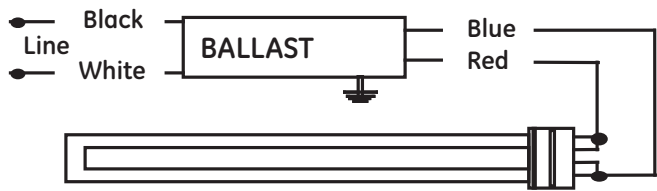
Compact Fluorescent

HID Electronic & Electromagnetic

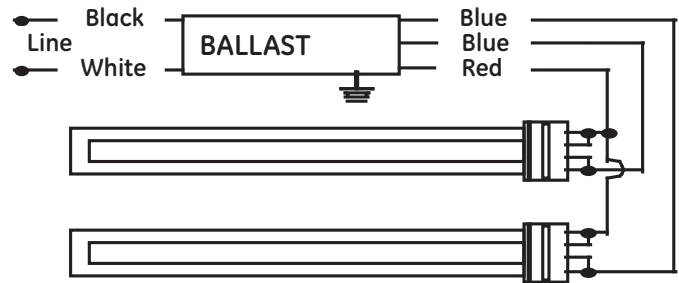
Wiring Diagrams

Compact Fluorescent Ballasts

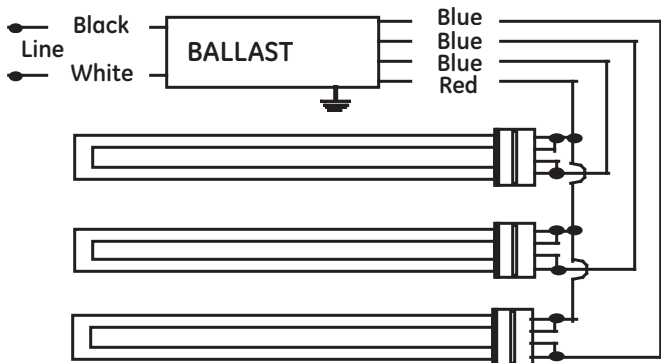
CFL IS1



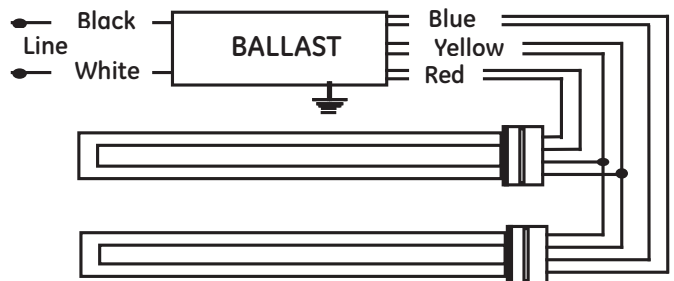
CFL IS2



CFL IS3



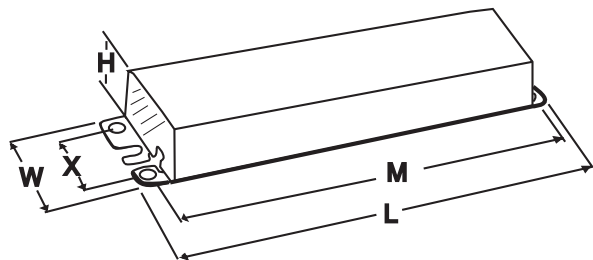
CFL PS2



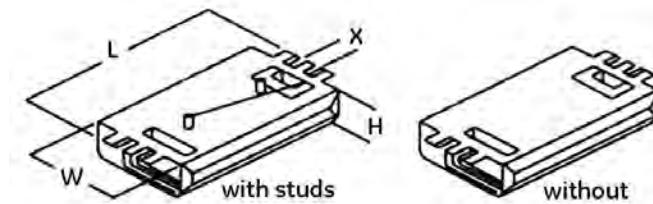
Case Dimensions

Compact Fluorescent Ballasts

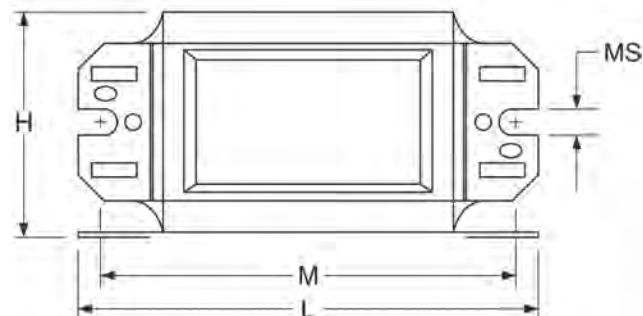
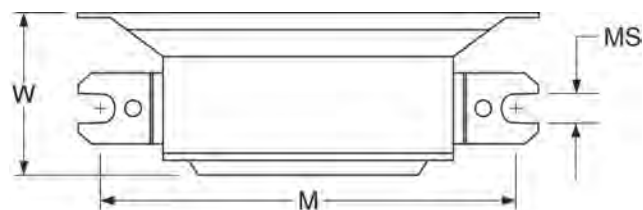
-A



13



2



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

Table of Contents

HID Electronic and Electromagnetic Ballasts

Understanding Electronic UltraMax® HID Ballasts..... 18-2

Understanding Electromagnetic HID Ballasts.....18-3

Electronic HID
 For 20 – 150W Pulse Start HID Lamps.....18-5

Metal Halide
 For 20 – 175W Metal Halide HID Lamps..... 18-12
 For 250 – 1500W Metal Halide HID Lamps..... 18-19

Pulse Start
 For 175 – 1000W Pulse Start
 Metal Halide HID Lamps 18-26

High Pressure Sodium
 For 50 – 150W High Pressure
 Sodium HID Lamps 18-37
 For 250 – 1000W High Pressure
 Sodium HID Lamps18-43

High Intensity Discharge Lamp and Ballast Kits 18-49

Enclosed and Potted Metal Halide 18-53

F-Can and Post Mount High Pressure Sodium 18-57

HID Accessories
 Replacement Igniters for
 Pulse Start Lamps (MH & HPS)..... 18-59
 Other Accessories..... 18-59

Replacement Capacitors 18-59

Capacitors and Igniters 18-60

Wiring Diagrams
 Electronic HID.....18-65
 Electromagnetic HID..... 18-67

Case Dimensions
 Electronic HID..... 18-66
 Electromagnetic HID..... 18-70

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic



Understanding Electronic UltraMax® HID Ballasts



GE offers a complete line of electronic ballasts for HID lighting systems. Electronic HID, like **electronic fluorescent systems that preceded it**, significantly improve the performance of HID lighting. Electronic UltraMax® eHID Ballasts use solid-state components to start and operate HID lamps. Electronic eHID ballasts use IC chips to control and give feedback for optimal performance of the lighting system. GE eHID ballasts improve the efficiency, maintain higher lumens, enhance lamp life and color control, and operate more quietly than the magnetic core and coil ballast that they replace.

GE's line of UltraCool™ UltraMax® eHID ballasts can provide up to 70% energy savings and four times the life of standard halogen. End users can meet strict watts per square foot requirements while achieving significant wattage savings and color control with ceramic metal halide lamps and GE eHID ballasts.

GE's UltraMax® eHID ballasts operate **only pulse start and ceramic metal halide lamps**. **GE UltraMax® eHID ballasts operate lamps at a low frequency square wave** to maximize lamp performance. Extensive analysis of all brands of lamps suggests that the most compatible driving waveform for an electronic HID electronic ballast is a low-frequency squared wave (L.F.S.W.) with higher order harmonic content. L.F.S.W. has been established as a dependable method of ballasting low-wattage HID lamps with significant industry support. Analysis of lamp data has shown that there are limited operating bands between 1 kHz to 200 kHz in which electronic ballast could operate a lamp wattage family without causing unacceptable arc instability due to acoustic resonance. GE's UltraMax® eHID constantly measures and adjusts the wattage, optimizing the ceramic metal halide lamp performance.

GE high-wattage eHID ballasts will operate 250, 300, 320, 350 or 400 watt pulse start or ceramic metal halide lamps with one ballast. The eHID Ballast with a PulseArc lamp will produce 70% more lumens per watt than the obsolete probe start magnetic core and coil system. Variable dimming to 50% power reduction is an option with GE eHID high wattage ballast.

GE Ballast HID Electronic nomenclature

| G E M H 1 0 0 M S F - 1 2 0 | | | |
|---|---|---|--|
| GE Ballast GEMH = Electronic MH Lamp Watts | Housing MA=Metal Housing ML=Mini Slim MS=Mini Square SL=Slim Line E=PCB board | Connector F = Side leads w/ feet N = Side leads no feet J = Bottom leads w/ studs JN = Bottom leads no studs | Voltage 120 = 120 volt 277 = 277 volt 347 = 347 volt 480 = 480 volt MV = 120-277 volts |
| | | | Pack Type No extension = Standard Distributor Pack B=Bulk pack |



Understanding Electromagnetic HID Ballasts



GE offers High Intensity Discharge (HID) ballasts for mercury, probe start metal halide, pulse start metal halide and high pressure sodium lamps. Standard metal halide lamps or probe start metal halide over 150 watts, like fluorescent, are electric discharge lamps and require an open circuit voltage of nearly two times the operating voltage to initiate the arc between the two electrodes in the arc tube. High pressure sodium, pulse start metal halide and probe start metal halide lamps 150 watts or less require an igniter to initiate the high voltage to start the lamps. The ballasts provide the starting voltage with the igniter, where required, and provides stability for the lamp. HID lamps have negative impedance characteristics and would draw current until destruction unless a ballast was in place to regulate the current.

HID lamps take several minutes to warm-up and reach full light output. If power is interrupted between the lamp and the ballast, the arc will extinguish and lamp will go out. The lamp must cool down and reduce the vapor pressure before it will re-start. Typical warm-up and restrike times are as follows:

| Light Source | Warm-Up Time | Restrike Time |
|----------------------------|--------------|---------------|
| Metal Halide (Probe Start) | 3-4 minutes | 10-20 minutes |
| Metal Halide (Pulse Start) | 2 minutes | 3-4 minutes |
| High Pressure Sodium | 7-10 minutes | 1/2-1 minute |

GE HID Ballast Types

CORE AND COIL

The most common HID ballasts are the core and coil and is used in 90% of the fixture applications. Core and coil ballasts consist of one, two or three copper (or aluminum) coils on a core of electrical-grade steel laminations. HID ballasts are classified by the kind of circuit they use: Reactor (R), High Reactance autotransformer (HX), Constant Wattage Autotransformer (CWA), Regulated lag (Reg Lag) or Electronic. HID ballast are also classified as high power factor (HPF) or normal power factor (NPF).

GE HID ballast 150 watts or less have High Reactance Autotransformer circuits and high power factor (HX-HPF). GE HID ballast greater that 150 watts have Constant Wattage Autotransformer circuits and are high power factor (HPF).

CWA ballast is the most common circuit for core and coil ballast. CWA circuits provide for stable light regulation. The CWA circuit consists of a high reactance autotransformer with a capacitor in series with the lamp resulting with high power factor ballast. In most CWA ballast circuits a 10% drop in line voltage will only reduce the light output and wattage by 5%. The CWA circuit ballast requires an igniter for QMH pulse start, ceramic metal halide and HPS lamps. Igniters are also required for QMH lamps 150 watts or less.

Distributor Ballast Kits

GE stocks a comprehensive inventory of **quad and 5-tap HID voltage ballast kits**. The kits contain the appropriate core and coil, capacitor, ignitor (where required), mounting bracket, mounting hardware and instructions to allow the stocking distributor to meet the needs of their customer while minimizing their investment in component parts. The quad ballast kit has color-coded leads to identify voltages and operates at 120/208/240/277. **The 5-tap HID ballast kits also include 480-volt applications** and are listed as ML5, though GE also offers single-voltage kits for 480-volt with 120-volt taps for stand-by lighting.

Also available for metal halide and high pressure sodium applications is the **5-tap ballast-lamp replacement kit listed as -55**. This easy-to-carry, convenient, all-in-one kit, ensures ballast-lamp compatibility by including the lamp as well.

Ignitors and capacitors, where required, are included with the quad and 5-tap ballast kits.

Capacitors

Most GE capacitors and ignitors are sold in ballast kits that come pre-wired and reduce labor cost. Capacitors and ignitors are also sold separately.

Power factor capacitors are used to reduce the negative effects that inductive devices (HID ballast) have on power factor ratings. GE sells a complete line of capacitors that must be properly matched to the lamp and HID ballast. GE capacitors have bleed-in resistors and use biodegradable, nontoxic (no PCBs) dielectric fluid.

GE Oil-filled Capacitors are packaged in metal cases (up to 520V ratings). All GE capacitors are designed for 60,000 hours of continuous life.

Dry Capacitors do not contain oil and are manufactured with plastic casing. Dry casings are rated up 100°C maximum.

Dry capacitors are designed and rated for AC voltages below 400V at 50 or 60Hz.

Ignitors

Ignitors are also sold in individual cartons for replacement needs. Ignitors supply a high voltage pulse to ionize the gas creating the glow discharge. Once the lamp is started the ignitor stops providing the pulse. Ignitors are designed to last thousand of hours; however, if the lamp fails or the socket is empty, the ignitor will continue to pulse. The lamps should be replaced or the fixture turned off to prevent premature failure of the ignitor.

Standard ignitors are supplied with metal halide ballast 150 watts or less, pulse start metal halide and high-pressure sodium ballast. There are several different ignitors that meet the needs of many GE lamp and ballast combinations. The appropriate ignitor is listed in the catalog under the ballast specifications.

Potted Core and Coil Ballast

GE potted core and coil ballasts are designed for applications requiring quieter or cooler operation than provided by standard coil and coil ballast. The potting material is sand-filled polyester which provides excellent sound-deadening and heat-transfer qualities.

F-Can Ballast

GE F-Can ballast is recommended for indoor applications and where ballast noise must be minimized. F-Can ballast are encased in fluorescent ballast-type cans and potted with asphalt insulating materials to minimize noise.

Ballast Date and Temperature Codes

Date Codes

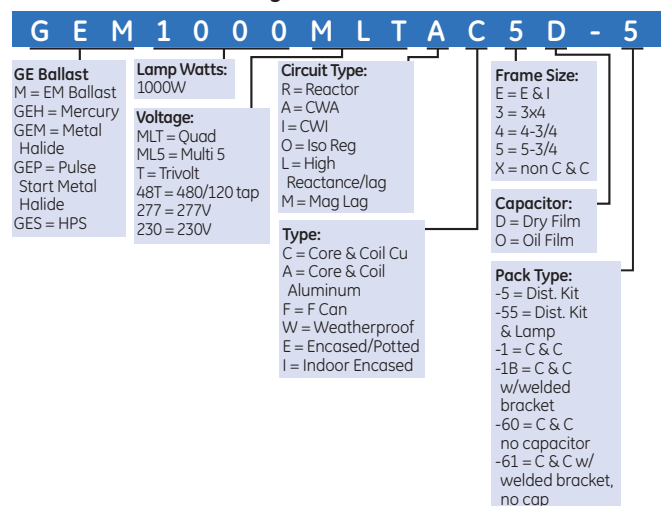
GE HID core and coil ballast manufacturing date codes are located on the top end of the core. They are printed in white and indicate year, month manufactured, and order the ballast was manufactured in the month. A code of 070100001 would indicate manufacture date of 07 (year 2007), 01 (month of January), and 00001 would be the manufacturing sequence.

UL Bench Top Temperature Code

To help with UL inspection, the UL Bench top code is listed on the GE label on the core and coil ballast as 1029X. X is the temperature code and represented by the following temperature classifications: A, B, C, D, E and F.

| UL Bench Top Letter Code | Temperature Range for Class H (180C) Ballast |
|--------------------------|--|
| A | Less than 75C |
| B | 75C < 80C |
| C | 80C < 85C |
| D | 85C < 90C |
| E | 90C < 95C |
| F | 95C < 100C |

GE Ballast HID Electromagnetic nomenclature



Electronic HID

HID Electronic and Electromagnetic Ballasts For 20 – 150W Pulse Start HID Lamps

74115 – GEMH20-MC-120

Electronic HID


1 – 20W M156 or C156 120V Micro Electronic HID

| General characteristics | |
|-------------------------------|------------------------------|
| Ballast Type | Electronic – Low Frequency |
| Starting Method | Pulse Start |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MIN) | 0 °C (32 °F) |
| Ambient Temperature (MAX) | 55 °C (131 °F) |
| Case Temperature (MAX) | 80 °C (176 °F) |
| Ballast Factor | Normal-High (1.0) |
| Power Factor Correction | Active |
| Circuit Type | Electronic |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Plastic |
| Distance to Lamp (MAX) | 8 ft |
| Additional Info | End of Life Protection (EOL) |

| Electrical characteristics | |
|--------------------------------|--------|
| Lamp Operating Frequency | 133 Hz |
| Supply Current Frequency | 60 Hz |
| Supply Current Frequency (MIN) | |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 1 | 10 |

| Specifications by lamp and line voltage | | |
|---|--------------------------------|---------------|
| Lamp | Specifications by line voltage | |
| M156 20W Ceramic Metal Halide | System Wattage (W) | 120 |
| | Nominal Current | 23 |
| | Nominal Current | 0.20 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency | 0.870 |
| | Open Circuit Voltage | 4000 V |
| | Drop Out Voltage | 96 V |
| | Power factor (≥)% | 0.98 |
| | Crest factor (κ) | 1.4 |
| | THD % (κ) | 10 |
| | Min. starting temperature | 0 °F (-18 °C) |
| | Fuse rating | 1.5 |

Safety and performance UL94V0 Flame Retardant UL 1029 Listed Short Circuit Protection FCC Part 18 (Class A) for EMI and RFI Non-Consumer Limits ANSI – C82.14-2006 cUL Listed  UL Listed
Inherent Thermal Protection Product is compliant with material restriction requirements of RoHS

87490 – GEMH20-MLF-120

Electronic HID

1 – 20W M156 or C156 120V Electronic HID

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Low Frequency |
| ANSI Lamp Codes | M156 |
| Voltage | 120 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Electronic |
| Insulation Class | |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | |
| Ambient Temperature (MAX) | 131°F (55°C) |
| Case Temperature (MAX) | 85°C (185°F) |
| Sound Rating | A (20-24 decibels) |
| Additional Info | End-of-Life Protection (EOL), Inherent thermal protection |

| Electrical characteristics | |
|----------------------------|--|
| Lamp Operating Frequency | 133 Hz |
| Supply Current Frequency | 60 Hz/ 50 Hz/ Supply Current Frequency (MIN) / 50 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 1 | 12 |

| Specifications by lamp and line voltage | | |
|---|--------------------------------|---------|
| Lamp | Specifications by line voltage | |
| M156 20W Ceramic Metal Halide | System Wattage (W) | 120 |
| | Nominal Current | 22.50 |
| | Nominal Current | 0.36 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.89 |
| | Open Circuit Voltage | 4,000V |
| | Drop Out Voltage | 96V |
| | Power Factor (≥)% | 56 |
| | Crest Factor (κ) | 1.40 |
| | THD % (κ) | 79 |
| | Min. Starting Temp (°F/°C) | 0 / -18 |
| | Fuse Rating | 3 |
| | UL Bench Top Rise | |

Safety and performance ANSI – C62.41 UL 1029 Listed FCC-CLASS A Non-Consumer cUL Listed  UL Listed Product is compliant with material restriction requirements of RoHS

See page E-1 for warranty information.

- Light weight, low-profile housing
- Superior low frequency square wave frequency design maximizes performance and life of ceramic metal halide lamps.
- Ultra slim can size for fixture design flexibility

| Dimensions | | | |
|---|-----------------|-------------|-------------------------|
| Wiring diagram WD-eHID MLF/MSF – see example on page 18-65 | | | |
| Case dimensions – Ref Drawing MLF – see page 18-66 | | | |
| Length (L) | 3.0 in (76 mm) | | |
| Width (W) | 1.3 in (33 mm) | | |
| Height (H) | 1.18 in (30 mm) | | |
| Weight | 0.292 lbs | | |
| Exit Type | Side | | |
| Remote Mounting Distance to Lamp | 8 ft | | |
| Remote Mounting Wire Gauge | 18 AWG | | |
| Lead lengths | Qty | Exit | Length (± 1 in.) |
| Red | 1 | Left | 6.0 in (152 mm) |
| White | 1 | Left | 6.0 in (152 mm) |
| Brown | 1 | Left | 6.0 in (152 mm) |
| Black | 1 | Left | 6.0 in (152 mm) |

- Light weight, low-profile housing
- Superior low-frequency square-wave-frequency design maximizes performance and life of ceramic metal halide lamps
- Ultra-slim can size for fixture design flexibility

| Dimensions | |
|---|----------------|
| Wiring diagram WD-eHID MLF/MSF – see example on page 18-65 | |
| Case dimensions – Ref Drawing MLF – see page 18-66 | |
| Length (L) | 3.7 in (95 mm) |
| Width (W) | 1.5 in (40 mm) |
| Height (H) | 1.0 in (25 mm) |
| Frame Size (H x L) | |
| Mounting dimensions | |
| Bracket Length (BL) | |
| Mount Length (M) | 3.3 in (85 mm) |
| Mount Width (X or F) | 1.1 in (30 mm) |
| Mount Slots (MS) | 0.1 in (4 mm) |
| Weight | 0.38 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 8 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | |
| Brown | |
| White | |
| Red | |

Electronic HID

HID Electronic and Electromagnetic Ballasts For 20 – 150W Pulse Start HID Lamps

63042 – GEMH20-MSJ-MV

Electronic HID

1-20W M156/C156 120-277V Low frequency Electronic HID

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic – Low Frequency |
| ANSI Lamp Codes | C156 |
| Voltage | 120 and 277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Electronic |
| Ambient Temperature (MIN) | -20°C (-4°F) |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal Can |
| Additional Info | Junction Box Mounting Bottom Lead with Studs |

Electrical characteristics

| | |
|--------------------------|-------------|
| Lamp Operating Frequency | 130 Hz |
| Supply Current Frequency | 50 Hz/60 Hz |

Order information

| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
|------|--------------------------|--------------------------------|
| Case | 10 | 10 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|----------------------------|--------------------------------|-----------|
| C156 | 120 | 277 |
| 20W Ceramic Metal Halide | | |
| System Wattage (W) | 23 | 23 |
| Nominal Current | 0.21 A | 0.09 A |
| Ballast Factor | 1 | 1 |
| Ballast Efficiency Factor | 0.87 | 0.87 |
| Open Circuit Voltage | 350 V | 350 V |
| Drop Out Voltage | 96 V | 96 V |
| Power Factor (>=)% | 95 | 95 |
| Crest Factor (<) | 1.5 | 1.5 |
| THD % (<) | 10 | 15 |
| Min. Starting Temp (°F/°C) | -20 / -29 | -20 / -29 |
| Fuse Rating | 1.25 | 1.25 |
| UL Bench Top Rise | | |

Safety and performance



UL Type 1 Outdoor ANSI - C82.14-2006 Suitable for recessed use
cUL Listed Inherent Thermal Protection Product is compliant with material restriction requirements of RoHS



UL 1029 Listed FCC Part 18 (Class A) for EMI and RFI Non-Consumer Limits Short Circuit Protection

63043 – GEMH20-MSF-MV

Electronic HID

1-20W M156/C156 120-277V Low frequency Electronic HID

General characteristics

| | |
|-------------------------------|--|
| Ballast Type | Electronic – Low Frequency |
| ANSI Lamp Codes | C156 |
| Voltage | 120 and 277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Electronic |
| Ambient Temperature (MIN) | -20°C (-4°F) |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal Can |
| Additional Info | Junction Box Mounting Side Leads with feet |

Electrical characteristics

| | |
|--------------------------|-------------|
| Lamp Operating Frequency | 130 Hz |
| Supply Current Frequency | 50 Hz/60 Hz |

Order information

| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
|------|--------------------------|--------------------------------|
| Case | 10 | 10 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|----------------------------|--------------------------------|-----------|
| C156 | 120 | 277 |
| 20W Ceramic Metal Halide | | |
| System Wattage (W) | 23 | 23 |
| Nominal Current | 0.21 A | 0.09 A |
| Ballast Factor | 1 | 1 |
| Ballast Efficiency Factor | 0.87 | 0.87 |
| Open Circuit Voltage | 350 V | 350 V |
| Drop Out Voltage | 96 V | 96 V |
| Power Factor (>=)% | 95 | 95 |
| Crest Factor (<) | 1.5 | 1.5 |
| THD % (<) | 10 | 15 |
| Min. Starting Temp (°F/°C) | -20 / -29 | -20 / -29 |
| Fuse Rating | 1.25 | 1.25 |
| UL Bench Top Rise | | |

Safety and performance



UL Type 1 Outdoor Suitable for recessed use
Product is compliant with material restriction requirements of RoHS



UL 1029 Listed Short Circuit Protection cUL Listed ANSI - C82.14-2006 FCC Part 18 Class B at 120 volts

- Superior low frequency square wave frequency design maximizes performance and life of ceramic metal halide lamps.
- Multi-Voltage Technology handles voltage from 120 to 277V
- Improves lumen maintenance vs magnetic
- Suitable for recessed use
- Lamp life 4x the life of halogen: 12K vs 3K
- 2% line regulation minimizes lamp to lamp color variation
- 15% Energy savings vs magnetic HID ballasts in retrofits
- Excellent color control with GE CMH & tight line regulation
- End-of-Lamp-Life Protection

Dimensions

Wiring diagram WD-eHID-SLJ – see example on page 18-65

Case dimensions – Ref Drawing Fig. 3 – see page 18-66

| | |
|--------------------|----------------|
| Length (L) | 3.3 in (83 mm) |
| Width (W) | 3.0 in (76 mm) |
| Height (H) | 1.6 in (40 mm) |
| Frame Size (H x L) | |

Mounting dimensions

| | |
|----------------------------------|-------------------------|
| Bracket Length (BL) | |
| Mount Length (ML) | 2.0 in (51 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 8-32 |
| Weight | 1.1 lb |
| Exit Type | Bottom Leads with Studs |
| Remote Mounting Distance to Lamp | 6.56 ft |
| Remote Mounting Wire Gauge | 18 AWG |

| Lead lengths | Qty | Exit | Length (±1 in.) |
|--------------|-----|--------|-----------------|
| Black | 1 | Bottom | 6.0 in (152 mm) |
| Brown | 1 | Bottom | 6.0 in (152 mm) |
| Green | 1 | Bottom | 6.0 in (152 mm) |
| Red | 1 | Bottom | 6.0 in (152 mm) |
| White | 1 | Bottom | 6.0 in (152 mm) |

- Superior low frequency square wave frequency design maximizes performance and life of ceramic metal halide lamps.
- 15% Energy savings vs magnetic HID ballasts in retrofits
- Lamp life 4x the life of halogen: 12K vs 3K
- Improves lumen maintenance vs magnetic
- 2% line regulation minimizes lamp to lamp color variation
- Excellent color control with GE CMH & tight line regulation
- End-of-Lamp-Life Protection

Dimensions

Wiring diagram WD-eHID SLJ – see example on page 18-65

Case dimensions – Ref Drawing Fig. 2 – see page 18-66

| | |
|--------------------|----------------|
| Length (L) | 3.4 in (85 mm) |
| Width (W) | 3.1 in (79 mm) |
| Height (H) | 1.2 in (30 mm) |
| Frame Size (H x L) | |

Mounting dimensions

| | |
|----------------------------------|-----------------|
| Bracket Length (BL) | |
| Mount Length (ML) | 3.78 in (96 mm) |
| Mount Width (X or F) | 2.64 in (67 mm) |
| Mount Slots (MS) | 0.17 in (4 mm) |
| Weight | 1.0 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 6.56 ft |
| Remote Mounting Wire Gauge | 18 AWG |

| Lead lengths | Qty | Exit | Length (±1 in.) |
|--------------|-----|--------|-----------------|
| Black | 1 | Bottom | 6.0 in (152 mm) |
| Brown | 1 | Bottom | 6.0 in (152 mm) |
| Green | 1 | Bottom | 6.0 in (152 mm) |
| White | 1 | Bottom | 6.0 in (152 mm) |
| Red | 1 | Bottom | 6.0 in (152 mm) |

Electronic HID

HID Electronic and Electromagnetic Ballasts For 20 – 150W Pulse Start HID Lamps

63044 – GEMH39-MSJ-MV

Electronic HID

1-39W M130/C130 120-277V Low Frequency Electronic HID

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic – Low Frequency |
| ANSI Lamp Codes | C156 |
| Voltage | 120 and 277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Electronic |
| Ambient Temperature (MIN) | -20°C (-4°F) |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal Can |
| Additional Info | Junction Box Mounting Bottom Lead with studs |

| Electrical characteristics | |
|----------------------------|-------------|
| Lamp Operating Frequency | 130 Hz |
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 10 | 10 |

| Specifications by lamp and line voltage | | | |
|---|--------------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | 120 | 277 |
| C130, M130 39W Ceramic Metal Halide | System Wattage (W) | 44 | 45 |
| | Nominal Current | 0.17 A | 0.39 A |
| | Ballast Factor | 1 | 1 |
| | Ballast Efficiency Factor | 0.89 | 0.87 |
| | Open Circuit Voltage | 350 V | 350 V |
| | Drop Out Voltage | 96 V | 96 V |
| | Power Factor (>=)% | 95 | 95 |
| | Crest Factor (<) | 1.5 | 1.5 |
| | THD % (<) | 10 | 15 |
| | Min. Starting Temp (°F/°C) | -20 / -29 | -20 / -29 |
| | Fuse Rating | 1.25 | 1.25 |
| | UL Bench Top Rise | | |

Safety and performance

UL Type 1 Outdoor ANSI - C82.14-2006 Suitable for recessed use Short Circuit Protection Inherent Thermal Protection cUL Listed Product is compliant with material restriction requirements of RoHS

- Superior low frequency square wave frequency design maximizes performance and life of ceramic metal halide lamps.
- 15% Energy savings vs magnetic HID ballasts in retrofits
- Lamp life 4x the life of halogen: 12K vs 3K
- Improves lumen maintenance vs magnetic
- Excellent color control with GE CMH & tight line regulation
- 2% line regulation minimizes lamp to lamp color variation
- Multi-Voltage Technology handles voltage from 120 to 277V
- End-of-Lamp-Life Protection

| Dimensions | | | |
|--|-------------------------|--------|------------------|
| Wiring diagram WD-eHID-SLJ - see example on page 18-65 | | | |
| Case dimensions - Ref Drawing Fig. 3 - see page 18-66 | | | |
| Length (L) | 3.3 in (83 mm) | | |
| Width (W) | 3.0 in (76 mm) | | |
| Height (H) | 1.6 in (40 mm) | | |
| Frame Size (H x L) | | | |
| Mounting dimensions | | | |
| Bracket Length (BL) | | | |
| Mount Length (M) | 2.0 in (51 mm) | | |
| Mount Width (X or F) | | | |
| Mount Slots (MS) | 8-32 | | |
| Weight | 1.1 lb | | |
| Exit Type | Bottom Leads with Studs | | |
| Remote Mounting Distance to Lamp | 6.56 ft | | |
| Remote Mounting Wire Gauge | 18 AWG | | |
| Lead lengths | Qty | Exit | Length (± 1 in.) |
| Black | 1 | Bottom | 6.0 in (152 mm) |
| Brown | 1 | Bottom | 6.0 in (152 mm) |
| Green | 1 | Bottom | 6.0 in (152 mm) |
| Red | 1 | Bottom | 6.0 in (152 mm) |
| White | 1 | Bottom | 6.0 in (152 mm) |

63045 – GEMH39-MSF-MV

Electronic HID

1-39W M130/C130 120-277V Low Frequency Electronic HID

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Low Frequency |
| ANSI Lamp Codes | C156 |
| Voltage | 120 and 277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Electronic |
| Ambient Temperature (MIN) | -20°C (-4°F) |
| Ambient Temperature (MAX) | 55°C (131°F) |
| Case Temperature (MAX) | 90°C (194°F) |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal Can |
| Additional Info | Junction Box Mounting Bottom Lead with feet |

| Electrical characteristics | |
|----------------------------|-------------|
| Lamp Operating Frequency | 130 Hz |
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 10 | 10 |

| Specifications by lamp and line voltage | | | |
|---|--------------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | 120 | 277 |
| C130, M130 39W Ceramic Metal Halide | System Wattage (W) | 44 | 45 |
| | Nominal Current | 0.17 A | 0.39 A |
| | Ballast Factor | 1 | 1 |
| | Ballast Efficiency Factor | 0.89 | 0.87 |
| | Open Circuit Voltage | 350 V | 350 V |
| | Drop Out Voltage | 96 V | 96 V |
| | Power Factor (>=)% | 95 | 95 |
| | Crest Factor (<) | 1.5 | 1.5 |
| | THD % (<) | 10 | 15 |
| | Min. Starting Temp (°F/°C) | -20 / -29 | -20 / -29 |
| | Fuse Rating | 1.25 | 1.25 |
| | UL Bench Top Rise | | |

Safety and performance

Product is compliant with material restriction requirements of RoHS UL Type 1 Outdoor ANSI - C82.14-2006 Suitable for recessed use Short Circuit Protection Inherent Thermal Protection FCC Part 18 (Class A) for EMI and RFI Non-Consumer Limits

- Superior low frequency square wave frequency design maximizes performance and life of ceramic metal halide lamps.
- 15% Energy savings vs magnetic HID ballasts in retrofits
- Energy saving high efficiency instant start electronic ballast (> 90%)
- Lamp life 4x the life of halogen: 12K vs 3K
- Improves lumen maintenance vs magnetic
- Excellent color control with GE CMH & tight line regulation
- 2% line regulation minimizes lamp to lamp color variation
- Remote mounting distance to lamp = 2 m (min 18 AWG)
- Multi-Voltage Technology handles voltage from 120 to 277V
- End-of-Lamp-Life Protection
- UL940V0 flame retardant plastic housing

| Dimensions | | | |
|--|-----------------|--------|------------------|
| Wiring diagram WD-eHID SLJ - see example on page 18-65 | | | |
| Case dimensions - Ref Drawing Fig. 2 - see page 18-66 | | | |
| Length (L) | 3.4 in (85 mm) | | |
| Width (W) | 3.1 in (79 mm) | | |
| Height (H) | 1.2 in (30 mm) | | |
| Frame Size (H x L) | | | |
| Mounting dimensions | | | |
| Bracket Length (BL) | | | |
| Mount Length (M) | 3.78 in (96 mm) | | |
| Mount Width (X or F) | 2.64 in (67 mm) | | |
| Mount Slots (MS) | 0.17 in (4 mm) | | |
| Weight | 1.0 lbs | | |
| Exit Type | Side | | |
| Remote Mounting Distance to Lamp | 6.56 ft | | |
| Remote Mounting Wire Gauge | 18 AWG | | |
| Lead lengths | Qty | Exit | Length (± 1 in.) |
| Black | 1 | Bottom | 6.0 in (152 mm) |
| Brown | 1 | Bottom | 6.0 in (152 mm) |
| Green | 1 | Bottom | 6.0 in (152 mm) |
| White | 1 | Bottom | 6.0 in (152 mm) |
| Red | 1 | Bottom | 6.0 in (152 mm) |

Electronic HID

HID Electronic and Electromagnetic Ballasts For 20 – 150W Pulse Start HID Lamps

74116- GEMH39-MC-120

Electronic HID

1 – 39W M130 or C130 120V Micro Electronic HID

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic - Low Frequency |
| Starting Method | n/a |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MIN) | 0 °C (32 °F) |
| Ambient Temperature (MAX) | |
| Case Temperature (MAX) | 80 °C (176 °F) |
| Ballast Factor | Normal-High (1.0) |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Plastic |
| Distance to Lamp (MAX) | 8 ft |
| Additional Info | End of Life Protection (EOL), Thermally protected |

| Electrical characteristics | |
|----------------------------|--------|
| Lamp Operating Frequency | 133 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 1 | 10 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|-------------------------------------|--------------------------------|---------------|
| M130 39 W Ceramic MetalHalide | | 120 |
| | System Wattage (W) | 43 |
| | Ballast Factor | 1 |
| | Ballast Efficiency | 0.907 |
| | Max Input Current | 0.39 A |
| | Open Circuit Voltage | 4000 V |
| | Drop Out Voltage | 96 V |
| | Power factor (>=) % | 0.98 |
| | Crest factor (<) | 1.4 |
| | THD % (<) | 10 |
| | Min. starting temperature | 0 °F (-18 °C) |
| | Fuse rating | 1.5 |

Safety and performance UL94V0 Flame Retardant Short Circuit Protection ANSI – C82.14-2006 cUL Listed Inherent Thermal Protection  UL Listed
Product is compliant with material restriction requirements of RoHS

Note: This product no longer manufactured. Remaining stock will be sold.

- Light weight, low-profile housing
- Superior low frequency square wave frequency design maximizes performance and life of ceramic metal halide lamps.
- Ultra slim can size for fixture design flexibility

Dimensions

| Wiring diagram WD-eHID MLF/MSF – see example on page 18-65 | | | |
|--|-----------------|------|------------------|
| Case dimensions – Ref Drawing MLF – see page 18-66 | | | |
| Length (L) | 3.0 in (76 mm) | | |
| Width (W) | 1.3 in (33 mm) | | |
| Height (H) | 1.18 in (30 mm) | | |
| Weight | 0.38 lbs | | |
| Exit Type | Side | | |
| Remote Mounting Distance to Lamp | 8 ft | | |
| Remote Mounting Wire Gauge | 18 AWG | | |
| Lead lengths | Qty | Exit | Length (± 1 in.) |
| White | 1 | Left | 6.0 in (152 mm) |
| Red | 1 | Left | 6.0 in (152 mm) |
| Brown | 1 | Left | 6.0 in (152 mm) |
| Black | 1 | Left | 6.0 in (152 mm) |

75378 – GEMH39-MCM-120

Electronic HID

1 – 39W M130 or C130 120V Micro Electronic HID Metal Can



| General characteristics | |
|-------------------------------|------------------------------|
| Ballast Type | Electronic - Low Frequency |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 55 °C (131 °F) |
| Case Temperature (MAX) | 80 °C (176 °F) |
| Ballast Factor | Normal-High (1.0) |
| Sound Rating | A (20-24 decibels) |
| Enclosure Type | Metal |
| Distance to Lamp (MAX) | 8 ft |
| Additional Info | End of Life Protection (EOL) |

| Electrical characteristics | |
|----------------------------|--------|
| Lamp Operating Frequency | 130 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 1 | 10 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|-------------------------------------|--------------------------------|---------------|
| M130 20 W Ceramic MetalHalide | | 120 |
| | System Wattage (W) | 43 |
| | Nominal Current | 0.39 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency | 0.907 |
| | Open Circuit Voltage | 4000 V |
| | Drop Out Voltage | 96 V |
| | Power factor (>=) % | 0.95 |
| | Crest factor (<) | 1.4 |
| | THD % (<) | 10 |
| | Min. starting temperature | 0 °F (-18 °C) |
| | Fuse rating | 1.5 |

Safety and performance  UL Type 1 Outdoor UL1029 Listed Short Circuit Protection ANSI – C82.14-2006 cUL Listed Inherent Thermal Protection  UL Listed
Product is compliant with material restriction requirements of RoHS

- Light weight, low-profile housing
- Superior low frequency square wave frequency design maximizes performance and life of ceramic metal halide lamps.
- Ultra slim can size for fixture design flexibility

Dimensions

| Wiring diagram WD-eHID MLF/MSF – see example on page 18-65 | | | |
|--|-----------------|------|------------------|
| Case dimensions – Ref Drawing MLF – see page 18-66 | | | |
| Length (L) | 3.5 in (90 mm) | | |
| Width (W) | 1.3 in (33 mm) | | |
| Height (H) | 1.18 in (30 mm) | | |
| Weight | 0.38 lbs | | |
| Exit Type | Side | | |
| Remote Mounting Distance to Lamp | 8 ft | | |
| Remote Mounting Wire Gauge | 18 AWG | | |
| Lead lengths | Qty | Exit | Length (± 1 in.) |
| Green | 1 | Left | 6.0 in (152 mm) |
| White | 1 | Left | 6.0 in (152 mm) |
| Red | 1 | Left | 6.0 in (152 mm) |
| Brown | 1 | Left | 6.0 in (152 mm) |
| Black | 1 | Left | 6.0 in (152 mm) |

Electronic HID

HID Electronic and Electromagnetic Ballasts For 20 – 150W Pulse Start HID Lamps

87501 – GEMH39-MSF-120

Electronic HID

1 – 39W M130 or C130 120V Electronic HID

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Low Frequency |
| ANSI Lamp Codes | M130 |
| Voltage | 120 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | |
| Insulation Class | |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | |
| Ambient Temperature (MAX) | 131°F (55°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Sound Rating | A (20-24 decibels) |
| Additional Info | End-of-Life Protection (EOL), Thermally protected |

| Electrical characteristics | |
|----------------------------|--------|
| Lamp Operating Frequency | 130 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 1 | 10 |

| Specifications by lamp and line voltage | | |
|---|--------------------------------|----------|
| Lamp | Specifications by line voltage | |
| M130 | | 120 |
| 39W Ceramic | System Wattage (W) | 43.00 |
| Metal Halide | Nominal Current | 0.37 A |
| | Ballast Factor | 1.00 |
| | Ballast Efficiency Factor | 0.91 |
| | Open Circuit Voltage | |
| | Drop Out Voltage | 96V |
| | Power Factor (>=)% | 99 |
| | Crest Factor (k) | 1.40 |
| | THD % (k) | 6.80 |
| | Min. Starting Temp (°F/°C) | -4 / -20 |
| | Fuse Rating | 3 |
| | UL Bench Top Rise | |

Safety and performance  UL Type 1 Outdoor ANSI – C62.41 Suitable for recessed use UL 1029 Listed cUL Listed  UL Listed Product is compliant with material restriction requirements of RoHS

Note: This product is no longer manufactured. Remaining stock will be sold.

87531 – GEMH70-MSF-120

Electronic HID



1 – 70W, M98, M/C143, 120V Electronic HID

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Low Frequency |
| ANSI Lamp Codes | M98, M143, M139, C143, C139 |
| Voltage | 120 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | |
| Insulation Class | |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | |
| Ambient Temperature (MAX) | 131°F (55°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Sound Rating | A (20-24 decibels) |
| Additional Info | End of Life Protection (EOL), Thermally protected |

| Electrical characteristics | |
|----------------------------|--------|
| Lamp Operating Frequency | 130 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 1 | 10 |

| Specifications by lamp and line voltage | | |
|---|--------------------------------|----------|
| Lamp | Specifications by line voltage | |
| M98, M143, M139, C143, C139 | | 120 |
| 70W Ceramic | System Wattage (W) | 77 |
| Metal Halide | Nominal Current | 0.68 A |
| | Ballast Factor | 1.00 |
| | Ballast Efficiency Factor | 0.91 |
| | Open Circuit Voltage | |
| | Drop Out Voltage | |
| | Power Factor (>=)% | 99 |
| | Crest Factor (k) | 1.4 |
| | THD % (k) | 8.3 |
| | Min. Starting Temp (°F/°C) | -4 / -20 |
| | Fuse Rating | 3 |
| | UL Bench Top Rise | |

Safety and performance  UL Type 1 Outdoor ANSI – C62.41 UL 1029 Listed FCC-CLASS A Non-Consumer cUL Listed  UL Listed

Housing meets UL94V0 flame retardant
Product is compliant with material restriction requirements of RoHS

See page E-1 for warranty information.

| Dimensions | |
|--|-----------------|
| Wiring diagram WD-eHID MLF/MSF – see example on page 18-65 | |
| Case dimensions – Ref Drawing MSF – see page 18-66 | |
| Length (L) | 3.7 in (95 mm) |
| Width (W) | 2.9 in (76 mm) |
| Height (H) | 1.18 in (30 mm) |
| Frame Size (H x L) | |
| Mounting dimensions | |
| Bracket Length (BL) | |
| Mount Length (M) | 3.3 in (86 mm) |
| Mount Width (X or F) | 2.5 in (64 mm) |
| Mount Slots (MS) | 0.1 in (4 mm) |
| Weight | 0.38 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 8 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead lengths | |
| Black | |
| Brown | |
| White | |
| Red | |

| Dimensions | | | |
|--|--|-----------------|-----------------|
| Wiring diagram WD-eHID MLF/MSF – see example on page 18-65 | | | |
| Case dimensions – Ref Drawing MSF – see page 18-66 | | | |
| Length (L) | | 3.7 in (95 mm) | |
| Width (W) | | 2.9 in (76 mm) | |
| Height (H) | | 1.18 in (30 mm) | |
| Frame Size (H x L) | | | |
| Mounting dimensions | | | |
| Bracket Length (BL) | | | |
| Mount Length (M) | | 3.3 in (86 mm) | |
| Mount Width (X or F) | | 2.5 in (64 mm) | |
| Mount Slots (MS) | | 0.1 in (4 mm) | |
| Weight | | 0.38 lbs | |
| Exit Type | | Side | |
| Remote Mounting Distance to Lamp | | 8 ft | |
| Remote Mounting Wire Gauge | | 18 AWG | |
| Lead lengths | | Qty | Exit |
| Black | | 1 | Left |
| Brown | | 1 | Right |
| White | | 1 | Left |
| Red | | 1 | Right |
| | | | Length (± 1 in) |
| | | | 10 in (254 mm) |
| | | | 10 in (254 mm) |
| | | | 10 in (254 mm) |

Electronic HID

HID Electronic and Electromagnetic Ballasts For 20 – 150W Pulse Start HID Lamps

94135 -GEMH70-MSLF-120

Electronic HID

1 - 70W, M98/C98, M139/C139, 120V Electronic HID

| General characteristics | |
|-------------------------------|--|
| Ballast Type | Electronic - Low Frequency |
| ANSI Lamp Codes | M98/C98 or M139/C139 |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 122°F (50°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Sound Rating | A (<24 decibels) |
| Enclosure Type | Metal |
| Distance to Lamp (MAX) | 8 ft |
| Additional Info | End of Life Protection (EOL)/Thermally protected |

| Electrical characteristics | |
|----------------------------|--------|
| Lamp Operating Frequency | 275 Hz |


| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 1 | 10 |

Specifications by lamp and line voltage

| Lamp | Specifications by Line Voltage | |
|-----------|--------------------------------|--------|
| M98/C98 | | 120 |
| | System Wattage (W) | 77 |
| | Nominal Current | 0.64 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency | 0.90 |
| | Power factor (>=) % | 95 |
| | Crest factor (<) | 1.5 |
| | THD % (<) | 10 |
| | Min. Starting Temp (°F/°C) | 5/-15 |
| | Fuse rating | 2.5A |
| M139/C139 | | 120 |
| | System Wattage (W) | 77 |
| | Nominal Current | 0.64 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency | 0.90 |
| | Power factor (>=) % | 95 |
| | Crest factor (<) | 1.5 |
| | THD % (<) | 10 |
| | Min. Starting Temp (°F/°C) | 5/-15 |
| | Fuse rating | 2.5A |

Dimensions

| Wiring diagram WD-eHID SLJ – see example on page 18-65 | | |
|--|-------------------|-----------------|
| Case dimensions – Ref Drawing SLJ – see page 18-66 | | |
| Length (L) | 5.51 in (140 mm) | |
| Width (W) | 1.74 in (44.2 mm) | |
| Height (H) | 1.18 in (30 mm) | |
| Frame Size (H x L) | | |
| Mounting dimensions | | |
| Bracket Length (BL) | | |
| Mount Length (M) | 5.24 in (133 mm) | |
| Mount Width (X or F) | 1.13 in (28.6 mm) | |
| Mount Slots (MS) | 0.19 in (4.8 mm) | |
| Weight | 0.56 lbs | |
| Exit Type | Side | |
| Remote Mounting Distance to Lamp | 8 ft | |
| Remote Mounting Wire Gauge | 18 AWG | |
| Lead lengths | Qty | Length (± 1 in) |
| White | 1 | 10 in (254 mm) |
| Black | 1 | 10 in (254 mm) |
| Green | 1 | 10 in (254 mm) |
| Red | 1 | 10 in (254 mm) |
| Brown | 1 | 10 in (254 mm) |

Safety and performance  UL 1029 Listed cUL Listed Housing meets UL 1439 Suitable for recessed use Product is compliant with material restriction requirements of RoHS

87546 – GEMH70-SLJ-MV

Electronic HID

1 – 70W, M98, M/C143, 120V Electronic HID

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic - Low Frequency |
| ANSI Lamp Codes | M98, M143, C143, M139, C139 |
| Voltage | 120/277 |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 131°F (55°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Sound Rating | A (20-24 decibels) |
| Additional Info | End of Life Protection (EOL), Thermally protected |

| Electrical characteristics | |
|----------------------------|--------|
| Lamp Operating Frequency | 130 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 1 | 10 |

Specifications by lamp and line voltage

| Lamp | Specifications by Line Voltage | | |
|--|--------------------------------|----------|----------|
| M98, M143, M139, C143, C139 70W Ceramic Metal Halide | | 120 | 277 |
| | System Wattage (W) | 77 | 77 |
| | Nominal Current | 0.66 A | 0.30 A |
| | Ballast Factor | 1 | 1 |
| | Ballast Efficiency Factor | 0.91 | 0.91 |
| | Open Circuit Voltage | | |
| | Drop Out Voltage | 96V | 96V |
| | Power Factor (>=) % | 99 | 97 |
| | Crest Factor (<) | 1.4 | 1.4 |
| | THD % (<) | 4.9 | 7.7 |
| 70W Quartz Metal Halide | Min. Starting Temp (°F/°C) | -4 / -20 | -4 / -20 |
| | Fuse Rating | 3 | 3 |
| | UL Bench Top Rise | | |
| | | | |

Dimensions

| Wiring diagram WD-eHID SLJ – see example on page 18-65 | | |
|--|-------------------------|-------|
| Case dimensions – Ref Drawing SLJ – see page 18-66 | | |
| Length (L) | 7.2 in (185 mm) | |
| Width (W) | 2.5 in (66 mm) | |
| Height (H) | 2.2 in (56 mm) | |
| Frame Size (H x L) | | |
| Mounting dimensions | | |
| Bracket Length (BL) | | |
| Mount Length (M) | 0.4 in (11 mm) | |
| Mount Width (X or F) | | |
| Mount Slots (MS) | | |
| Weight | 0.38 lbs | |
| Exit Type | Bottom Leads with Studs | |
| Remote Mounting Distance to Lamp | 8 ft | |
| Remote Mounting Wire Gauge | 18 AWG | |
| Lead lengths | Qty | Exit |
| Black | 1 | Left |
| Brown | 1 | Right |
| White | 1 | Left |
| Red | 1 | Right |

Safety and performance  UL Type 1 Outdoor ANSI – C62.41 UL 1029 Listed FCC-CLASS A Non-Consumer cUL Listed Product is compliant with material restriction requirements of RoHS

Electronic HID

HID Electronic and Electromagnetic Ballasts For 20 – 150W Pulse Start HID Lamps

87561 – GEMH100-SLJ-MV

Electronic HID

1 – 100W, M90, M/C140, 120V-277V Electronic HID

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Low Frequency |
| ANSI Lamp Codes | M90, M140, C140 |
| Voltage | 120/277 |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 131°F (55°C) |
| Case Temperature (MAX) | 90°C (194°F) |
| Sound Rating | A (20-24 decibels) |
| Additional Info | End of Life Protection (EOL), Thermally protected |

| Electrical characteristics | |
|----------------------------|--------|
| Lamp Operating Frequency | 130 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 1 | 10 |

| Specifications by lamp and line voltage | | | | | | | |
|---|--------------------------------|----------|-------------------|----------------------------|--------------------------------|---------|--------|
| Lamp | Specifications by line voltage | | | Lamp | Specifications by line voltage | | |
| M90, M140 100W Ceramic Metal Halide | | 120 | 277 | C140 | | 120 | 277 |
| | System Wattage (W) | 110 | 107 | | System Wattage (W) | 110 | 107 |
| | Nominal Current | 0.93 A | 0.41 A | | Nominal Current | 0.93 A | 0.41 A |
| | Ballast Factor | 1 | 1 | | Ballast Factor | 1 | 1 |
| | Ballast Efficiency Factor | 0.91 | 0.93 | | Ballast Efficiency Factor | | |
| | Open Circuit Voltage | | | | Open Circuit Voltage | | |
| 100W Quartz Metal Halide | Drop Out Voltage | 96V | 96V | Drop Out Voltage | 96V | 96V | |
| | Power Factor (≥)% | 99 | 98 | Power Factor (≥)% | 99 | 98 | |
| | Crest Factor (κ) | 1.4 | 1.4 | Crest Factor (κ) | 1.4 | 1.4 | |
| | THD % (κ) | 4.7 | 7.8 | THD % (κ) | 4.7 | 7.8 | |
| | Min. Starting Temp (°F/°C) | -4 / -20 | -4 / -20 | Min. Starting Temp (°F/°C) | 0 / -18 | 0 / -18 | |
| | Fuse Rating | 3 | 3 | Fuse Rating | 3 | 3 | |
| UL Bench Top Rise | | | UL Bench Top Rise | | | | |

Safety and performance  UL Type 1 Outdoor ANSI – C62.41 UL 1029 Listed cUL Listed Product is compliant with material restriction requirements of RoHS

87576 – GEMH150-SLJ-MV

Electronic HID

1 – 150W, M102, M/C142, 120V-277V Electronic HID

| General characteristics | |
|-------------------------------|---|
| Ballast Type | Electronic – Low Frequency |
| ANSI Lamp Codes | M142, M102, C142 |
| Voltage | 120/277 |
| Line Voltage Regulation (+/-) | 10% |
| Ambient Temperature (MAX) | 131°F (55°C) |
| Case Temperature (MAX) | 85°C (185°F) |
| Sound Rating | A (20-24 decibels) |
| Additional Info | End of Life Protection (EOL), Thermally protected |

| Electrical characteristics | |
|----------------------------|--------|
| Lamp Operating Frequency | 130 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Case | 1 | 10 |

| Specifications by lamp and line voltage | | | | | | | |
|--|--------------------------------|----------|-------------------|----------------------------|--------------------------------|---------|--------|
| Lamp | Specifications by line voltage | | | Lamp | Specifications by line voltage | | |
| M102, M142 150W Quartz Metal Halide, | | 120 | 277 | C142 | | 120 | 277 |
| | System Wattage (W) | 167 | 164 | | System Wattage (W) | 167 | 164 |
| | Nominal Current | 1.44 A | 0.62 A | | Nominal Current | 1.44 A | 0.62 A |
| | Ballast Factor | 1 | 1 | | Ballast Factor | 1 | 1 |
| | Ballast Efficiency Factor | 0.90 | 0.91 | | Ballast Efficiency Factor | | |
| | Open Circuit Voltage | | | | Open Circuit Voltage | | |
| 150W Ceramic Metal Halide | Drop Out Voltage | 96V | 96V | Drop Out Voltage | 96V | 96V | |
| | Power Factor (≥)% | 99 | 99 | Power Factor (≥)% | 99 | 99 | |
| | Crest Factor (κ) | 1.4 | 1.4 | Crest Factor (κ) | 1.4 | 1.4 | |
| | THD % (κ) | 4.2 | 10.6 | THD % (κ) | 4.2 | 10.6 | |
| | Min. Starting Temp (°F/°C) | -4 / -20 | -4 / -20 | Min. Starting Temp (°F/°C) | 0 / -18 | 0 / -18 | |
| | Fuse Rating | 3 | 3 | Fuse Rating | 3 | 3 | |
| UL Bench Top Rise | | | UL Bench Top Rise | | | | |

Safety and performance  UL Type 1 Outdoor ANSI – C62.41 UL 1029 Listed FCC-CLASS A Non-Consumer cUL Listed Product is compliant with material restriction requirements of RoHS

| Dimensions | | | |
|--|-------------------------|-------|-----------------|
| Wiring diagram WD – eHID SLJ – see example on page 18-65 | | | |
| Case dimensions – Ref Drawing SLJ – see page 18-66 | | | |
| Length (L) | 7.2 in (185 mm) | | |
| Width (W) | 2.5 in (66 mm) | | |
| Height (H) | 2.2 in (56 mm) | | |
| Frame Size (H x L) | | | |
| Mounting dimensions | | | |
| Bracket Length (BL) | | | |
| Mount Length (M) | 0.4 in (11 mm) | | |
| Mount Width (X or F) | | | |
| Mount Slots (MS) | | | |
| Weight | 0.38 lbs | | |
| Exit Type | Bottom Leads with Studs | | |
| Remote Mounting Distance to Lamp | 8 ft | | |
| Remote Mounting Wire Gauge | 18 AWG | | |
| Lead lengths | | | |
| | Qty | Exit | Length (± 1 in) |
| Black | 1 | Left | 10 in (254 mm) |
| Brown | 1 | Right | 10 in (254 mm) |
| White | 1 | Left | 10 in (254 mm) |
| Red | 1 | Right | 10 in (254 mm) |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 20 – 175W Metal Halide HID Lamps

86824 – GEM50MLTLC3D-5

Metal Halide

1 – 50W MH M110 or M148 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M110 or M148 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 180C |
| Type of Capacitor | Dry film |
| Capacitance | 6 Mfd GECAP-6/280V-D |
| Voltage (MIN) | 280 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | | |
|--|--------------------------------|-----------|-----------|-----------|-----------|--|
| Lamp | Specifications by line voltage | | | | | |
| | 120 | 208 | 240 | 277 | | |
| M110, M148 50W Quartz Metal Halide | System Wattage (W) | 61 | 61 | 61 | 61 | |
| | Nominal Current | 0.60 A | 0.30 A | 0.30 A | 0.20 A | |
| | Ballast Factor | 1 | 1 | 1 | 1 | |
| | Ballast Efficiency Factor | 0.82 | 0.82 | 0.82 | 0.82 | |
| | Max Input Current | 1.16 A | 0.67 A | 0.58 A | 0.50 A | |
| | Starting Current | 0.61 A | 0.34 A | 0.30 A | 0.26 A | |
| | Open Circuit Voltage | 264V | 264V | 264V | 264V | |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 | |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | |
| | Fuse Rating | 3 | 3 | 2 | 2 | |
| | UL Bench Top Rise | C | C | C | C | |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|---|---------------------|
| Wiring diagram HID W-(H) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 1.0 |
| B | 2.0 |
| Weight | 3.40 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

86847 – GEM70MLTLC3D-5

Metal Halide

1 – 70W MH M98 or M143 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M98 or M143 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 180C |
| Type of Capacitor | Dry film |
| Capacitance | 8 Mfd GECAP-8/280V-D |
| Voltage (MIN) | 280 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | | |
|--|--------------------------------|-----------|-----------|-----------|-----------|--|
| Lamp | Specifications by line voltage | | | | | |
| | 120 | 208 | 240 | 277 | | |
| M98, M143 70W Ceramic Metal Halide | System Wattage (W) | 88 | 88 | 88 | 88 | |
| | Nominal Current | 0.90 A | 0.50 A | 0.40 A | 0.40 A | |
| | Ballast Factor | 1 | 1 | 1 | 1 | |
| | Ballast Efficiency Factor | 0.80 | 0.80 | 0.80 | 0.80 | |
| | Max Input Current | 1.51 A | 0.88 A | 0.75 A | 0.66 A | |
| | Starting Current | 0.96 A | 0.59 A | 0.49 A | 0.44 A | |
| | Open Circuit Voltage | 257V | 257V | 257V | 257V | |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 | |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | |
| | Fuse Rating | 4 | 3 | 3 | 2 | |
| | UL Bench Top Rise | A | A | A | A | |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|---|---------------------|
| Wiring diagram HID W-(H) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.0 |
| B | 3.0 |
| Weight | 5.00 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 20 – 175W Metal Halide HID Lamps

78517 – GEM70TRILC3-5

Metal Halide

1 – 70W M143 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M143 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Dry film |
| Capacitance | 8 Mfd GECAP-8/280V-D |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| M143 | System Wattage (W) | 120 | 277 | 347 |
| | Nominal Current | 0.90A | 0.39A | 0.31A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.77 | 0.77 | 0.77 |
| | Max Input Current | 1.00 A | 0.43 A | 0.34 A |
| | Starting Current | 1.10 A | 1.10 A | 1.10 A |
| | Open Circuit Voltage | 230V | 230V | 230V |
| | Drop Out Voltage | 102V | 235V | 295V |
| | Power Factor (s=) % | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 3 | 1 | 1 |
| | UL Bench Top Rise | A | A | A |

Safety and performance cUL Listed  UL Listed

67337 – GEM7048TLA3D-5/2

Metal Halide

1 – 70W MH M98 or M143 480

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M98 or M143 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Dry film |
| Capacitance | 8 Mfd GECAP-8/280V-D |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | |
|---|--------------------------------|-----------|
| Lamp | Specifications by line voltage | |
| M98 | System Wattage (W) | 480 |
| | Nominal Current | 0.23A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.71 |
| | Max Input Current | 0.23 A |
| | Starting Current | 1.10 A |
| | Open Circuit Voltage | 260V |
| | Drop Out Voltage | 360V |
| | Power Factor (s=) % | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 |
| | Fuse Rating | 1 |
| | UL Bench Top Rise | A |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|---|------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 1.50 in (38 mm) |
| B | 2.95 in (75 mm) |
| Weight | 5.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.54 in (90 mm) |
| Frame Size (H x L) | 2.82 in (72 mm) x 3.94 in (101 mm) |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|---|---------------------|
| Wiring diagram HID W-(F) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-67 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 1.50 |
| B | 2.60 |
| Weight | 4.80 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 20 – 175W Metal Halide HID Lamps

86675 – GEM100MLTLC3D-5

Metal Halide

1 – 100W MH M90 or M140 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M92, M90, M140 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 180C |
| Type of Capacitor | Dry film |
| Capacitance | 12 Mfd GECAP-12/280V-D |
| Voltage (MIN) | 280 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|---------------------------|--------------------------------|-----------|-----------|-----------|--|
| Lamp | Specifications by line voltage | | | | Lamp | Specifications by line voltage | | | | |
| M92 | 120 | 208 | 240 | 277 | M90, M140 | 120 | 208 | 240 | 277 | |
| System Wattage (W) | 119 | 119 | 119 | 119 | 100W | 119 | 119 | 119 | 119 | |
| Nominal Current | 1.10 A | 0.60 A | 0.50 A | 0.50 A | Ceramic | 1.10 A | 0.60 A | 0.50 A | 0.50 A | |
| Ballast Factor | 1 | 1 | 1 | 1 | Metal Halide | 1 | 1 | 1 | 1 | |
| Ballast Efficiency Factor | | | | | 100W | 0.84 | 0.84 | 0.84 | 0.84 | |
| Max Input Current | 2.27 A | 1.30 A | 1.13 A | 0.98 A | Quartz | 2.27 A | 1.30 A | 1.13 A | 0.98 A | |
| Starting Current | 1.26 A | 0.69 A | 0.60 A | 0.53 A | Metal Halide | 1.26 A | 0.69 A | 0.60 A | 0.53 A | |
| Open Circuit Voltage | 274V | 274V | 274V | 274V | Open Circuit Voltage | 274V | 274V | 274V | 274V | |
| Drop Out Voltage | 96V | 166V | 192V | 222V | Drop Out Voltage | 96V | 166V | 192V | 222V | |
| Power Factor (≥) % | 90 | 90 | 90 | 90 | Power factor (≥) % | 90 | 90 | 90 | 90 | |
| Min. Starting Temp | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | Min. starting temperature | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | |
| Fuse Rating | 5 | 4 | 3 | 3 | Fuse rating | 5 | 4 | 3 | 3 | |
| UL Bench Top Rise | D | D | D | D | UL bench top rise | D | D | D | D | |

Safety and performance  cUL Listed  UL Listed

78519 – GEM100TRILC3-5

Metal Halide

1 – 100W M140 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M140 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Dry film |
| Capacitance | 12 Mfd GECAP-12/280V-D |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|--|
| Lamp | Specifications by line voltage | | | |
| M140 | 120 | 277 | 347 | |
| System Wattage (W) | 128 | 128 | 128 | |
| Nominal Current | 1.16 A | 0.50 A | 0.40 A | |
| Ballast Factor | 1 | 1 | 1 | |
| Ballast Efficiency Factor | 0.8 | 0.8 | 0.8 | |
| Max Input Current | 1.28 A | 0.55 A | 0.44 A | |
| Starting Current | 1.50 A | 1.50 A | 1.50 A | |
| Open Circuit Voltage | 230V | 230V | 230V | |
| Drop Out Voltage | 102V | 235V | 295V | |
| Power Factor (≥) % | 90 | 90 | 90 | |
| Min. Starting Temp | -40 / -40 | -40 / -40 | -40 / -40 | |
| Fuse Rating | 5 | 1.5 | 1.0 | |
| UL Bench Top Rise | A | A | A | |

Safety and performance  cUL Listed  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(H) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.0 |
| B | 3.0 |
| Weight | 5.00 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 1.61 in (41 mm) |
| B | 3.07 in (75 mm) |
| Weight | 5.43 lbs |
| Exit Type | Side |
| Nominal Length | 3.54 in (90 mm) |
| Frame Size (H x L) | 2.82 in (72 mm) x 3.94 in (101 mm) |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 20 – 175W Metal Halide HID Lamps

67333 – GEM10048TLA3D-5/2

Metal Halide

1 – 100W MH M90 or M140 480

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M90 or M140 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Dry film |
| Capacitance | 12 Mfd GECAP-12/280V-D |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|---|--------------------------------|-----------|
| M90, M140 100W Ceramic Metal Halide | 480 | |
| | System Wattage (W) | 130 |
| | Nominal Current | 0.30 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.76 |
| | Max Input Current | 0.30 A |
| | Starting Current | 1.40 A |
| | Open Circuit Voltage | 245V |
| | Drop Out Voltage | 346V |
| | Power Factor (>=)% | 90 |
| | Min. Starting Temp (*F/*C) | -20 / -30 |
| | Fuse Rating | 1 |
| | UL Bench Top Rise | A or D |

Safety and performance cUL Listed  UL Listed

86718 – GEM150MLTLC3D-5

Metal Halide

1 – 150W MH M102 or M142 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M142, M102 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 180C |
| Type of Capacitor | Dry film |
| Capacitance | 16 Mfd GECAP-16/280V-D |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| M142, M102 150W Ceramic Metal Halide | 120 | 208 | 240 | 277 | |
| | System Wattage (W) | 186 | 186 | 186 | |
| | Nominal Current | 1.60 A | 1.00 A | 0.80 A | 0.70 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.81 | 0.81 | 0.81 | 0.81 |
| | Max Input Current | 3.37 A | 1.95 A | 1.68 A | 1.39 A |
| | Starting Current | 1.86 A | 1.03 A | 0.89 A | 0.77 A |
| | Open Circuit Voltage | 257V | 257V | 257V | 257V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V |
| | Power Factor (>=)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (*F/*C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 10 | 5 | 5 | 4 |
| | UL Bench Top Rise | A | B | A | A |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|---|---------------------|
| Wiring diagram HID W-(F) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 1.60 |
| B | 2.80 |
| Weight | 5.10 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|---|---------------------|
| Wiring diagram HID W-(H) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.3 |
| B | 4.0 |
| Weight | 7.00 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 20 – 175W Metal Halide HID Lamps

78520 – GEM150TRILC3-5

Metal Halide

1 – 150W M102 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M102 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Dry film |
| Capacitance | 16 Mfd GECAP-16/280V-D |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| M102 150W MH | | 120 | 277 | 347 |
| | System Wattage (W) | 190 | 190 | 190 |
| | Nominal Current | 1.7 A | 0.75 A | 0.59 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.8 | 0.8 | 0.8 |
| | Max Input Current | 1.87 A | .83 A | .65 A |
| | Starting Current | 2.30 A | 2.30 A | 2.30 A |
| | Open Circuit Voltage | 235V | 235V | 235V |
| | Drop Out Voltage | 102V | 235V | 295V |
| | Power Factor (≥)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 5 | 3 | 2 |
| | UL Bench Top Rise | A | A | A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.17 in (55 mm) |
| B | 3.62 in (92 mm) |
| Weight | 6.91 lbs |
| Exit Type | Side |
| Nominal Length | 3.54 in (90 mm) |
| Frame Size (H x L) | 2.82 in (72 mm) x 3.94 in (101 mm) |

86711 – GEM15048TLC3D-5

Metal Halide

1 – 150W MH M102 or M142 480

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M142, M102, M107 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 180C |
| Type of Capacitor | Dry film |
| Capacitance | 16 Mfd GECAP-16/280V-D |
| Voltage (MIN) | 280 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|------|--------------------------------|-----------|
| Lamp | Specifications by line voltage | | Lamp | Specifications by line voltage | |
| M102, M142 150W Ceramic Metal Halide 150W Quartz Metal Halide | | 480 | M107 | | 480 |
| | System Wattage (W) | 185 | | System Wattage (W) | 185 |
| | Nominal Current | 0.40 A | | Nominal Current | 0.40 A |
| | Ballast Factor | 1 | | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.81 | | Ballast Efficiency Factor | 0.83 |
| | Max Input Current | 0.85 A | | Max Input Current | 0.85 A |
| | Starting Current | 0.38 A | | Starting Current | 0.38 A |
| | Open Circuit Voltage | 264V | | Open Circuit Voltage | 264V |
| | Drop Out Voltage | 384V | | Drop Out Voltage | 384V |
| | Power Factor (≥)% | 90 | | Power Factor (≥)% | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | | Min. Starting Temp (°F/°C) | -22 / -30 |
| | Fuse Rating | 2 | | Fuse Rating | 2 |
| | UL Bench Top Rise | E | | UL Bench Top Rise | E |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(E) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.3 |
| B | 3.9 |
| Weight | 7.00 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 20 – 175W Metal Halide HID Lamps

87210 – GEM175ML5AC3-5

Metal Halide

1 – 175W MH M57 5-Tap (120/208/240/277/480V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M57, H39, M109 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 10 Mfd GE CAP-10/400V-O |
| Voltage (MIN) | 400 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | | |
| M57, M109 | System Wattage (W) | 202 | 202 | 202 | 202 | 202 |
| | Nominal Current | 1.70 A | 1.00 A | 0.90 A | 0.80 A | 0.40 A |
| | Ballast Factor | 1 | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| | Max Input Current | 1.70 A | 1.00 A | 0.90 A | 0.80 A | 0.40 A |
| | Starting Current | 0.60 A | 0.37 A | 0.32 A | 0.28 A | 0.21 A |
| | Open Circuit Voltage | 307V | 307V | 307V | 307V | 307V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | 384V |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 5 | 3 | 3 | 2 | 1.5 |
| | UL Bench Top Rise | D | C | C | C | C |

Safety and performance  UL Listed

86741 – GEM175MLTAC3-5

Metal Halide

1 – 175W MH M57 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M57, M107 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 10 Mfd GE CAP-10/400V-O |
| Voltage (MIN) | 400 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-------------------------------------|--------------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | | Lamp | Specifications by line voltage | | | | |
| M57 175W Quartz Metal Halide | System Wattage (W) | 210 | 210 | 210 | 210 | M107 150W Quartz Metal Halide | System Wattage (W) | 210 | 210 | 210 | 210 |
| | Nominal Current | 1.80 A | 1.00 A | 0.90 A | 0.80 A | | Nominal Current | 1.80 A | 1.00 A | 0.90 A | 0.80 A |
| | Ballast Factor | 1 | 1 | 1 | 1 | | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.83 | 0.83 | 0.83 | 0.83 | | Ballast Efficiency Factor | 0.83 | 0.83 | 0.83 | 0.83 |
| | Max Input Current | 1.80 A | 1.00 A | 0.90 A | 0.80 A | | Max Input Current | 1.80 A | 1.00 A | 0.90 A | 0.80 A |
| | Starting Current | 0.96 A | 0.56 A | 0.48 A | 0.42 A | | Starting Current | 0.96 A | 0.56 A | 0.48 A | 0.42 A |
| | Open Circuit Voltage | 302V | 302V | 302V | 302V | | Open Circuit Voltage | 302V | 302V | 302V | 302V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | | Drop Out Voltage | 96V | 166V | 192V | 222V |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 | | Power factor (≥)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | | Min. starting temperature | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 5 | 3 | 3 | 2 | | Fuse rating | 5 | 3 | 3 | 2 |
| | UL Bench Top Rise | B | B | B | C | | UL bench top rise | B | B | B | C |

Safety and performance  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 Volt) featuring a 480-Volt tap

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(K) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 3.0 |
| B | 4.0 |
| Weight | 3.40 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |
| Lead lengths | |
| Orange | |
| Violet and Black | |
| Violet/White | |
| Black/Yellow | |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(C) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 1.0 |
| B | 2.0 |
| Weight | 3.40 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

Ballasts

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

Metal Halide

HID Electronic and Electromagnetic Ballasts For 20 – 175W Metal Halide HID Lamps

78521 – GEM175TRIAC3-5

Metal Halide

1 – 175W M57 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M57 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 12 Mfd |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| M57 | 120 | 277 | 347 | |
| 150W | System Wattage (W) | 208 | 208 | 208 |
| MH | Nominal Current | 1.88 A | .85 A | .65 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.82 | 0.82 | 0.82 |
| | Max Input Current | 2.07 A | .94 A | .72 A |
| | Starting Current | 1.88 A | 1.88 A | 1.88 A |
| | Open Circuit Voltage | 295V | 295V | 295V |
| | Drop Out Voltage | 72V | 166V | 208V |
| | Power Factor (>=) % | 90 | 90 | 90 |
| | Min. Starting Temp | -20 / -29 | -20 / -29 | -20 / -29 |
| | Fuse Rating | 6 | 3 | 2 |
| | UL Bench Top Rise | A | A | A |

Safety and performance  

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|---|------------------------------------|
| Wiring diagram HID W-(M) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.17 in (55 mm) |
| B | 3.62 in (92 mm) |
| Weight | 6.91 lbs |
| Exit Type | Side |
| Nominal Length | 3.54 in (90 mm) |
| Frame Size (H x L) | 2.82 in (72 mm) x 3.94 in (101 mm) |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 250 – 1500W Metal Halide HID Lamps

87211 – GEM250ML5AC3-5

Metal Halide

1 – 250W MH M58 5-Tap (120/208/240/277/480V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M58 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 15 Mfd GECAP-15/400V-O |
| Voltage (MIN) | 400 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | | |
| M58 | 120 | 208 | 240 | 277 | 480 | |
| 250W Quartz Metal Halide | System Wattage (W) | 280 | 280 | 280 | 280 | 280 |
| | Nominal Current | 2.50 A | 1.40 A | 1.25 A | 1.10 A | 0.65 A |
| | Ballast Factor | 1 | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| | Max Input Current | 2.60 A | 1.60 A | 1.30 A | 1.20 A | 0.70 A |
| | Starting Current | 1.50 A | 1.00 A | 0.80 A | 0.70 A | 0.50 A |
| | Open Circuit Voltage | 290V | 290V | 290V | 290V | 290V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | 384V |
| | Power Factor (≥%) | 90 | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 8 | 5 | 4 | 3 | 2 |
| | UL Bench Top Rise | B | B | B | C | C |

Safety and performance cUL Listed  UL Listed

86765 – GEM250MLTAC3-5

Metal Halide

1 – 250W MH M58 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M58 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 15 Mfd GECAP-15/400V-O |
| Voltage (MIN) | 400 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| M58 | 120 | 208 | 240 | 277 |
| 250W Quartz Metal Halide | System Wattage (W) | 294 | 294 | 294 |
| | Nominal Current | 2.65 A | 1.50 A | 1.30 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.85 | 0.85 | 0.85 |
| | Max Input Current | 2.60 A | 1.58 A | 1.30 A |
| | Starting Current | 1.88 A | 1.15 A | 0.95 A |
| | Open Circuit Voltage | 315V | 315V | 315V |
| | Drop Out Voltage | 96V | 166V | 192V |
| | Power Factor (≥%) | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 8 | 5 | 4 |
| | UL Bench Top Rise | C | D | C |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(K) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 3.0 |
| B | 4.3 |
| Weight | 9.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.2 in (83 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |
| Lead lengths | |
| Orange | |
| Violet and Black | |
| Violet/White | |
| Black/Yellow | |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(C) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 3.0 |
| B | 4.3 |
| Weight | 9.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.2 in (83 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 250 – 1500W Metal Halide HID Lamps

78522 – GEM250TRIAC4-5

Metal Halide

1 – 250W M58 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M58 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 15 Mfd GECAP-15/400V-O |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| M58 250W MH | System Wattage (W) | 120 | 277 | 347 |
| | Nominal Current | 2.5A | 1.08A | 0.86A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.85 | 0.85 | 0.85 |
| | Max Input Current | 2.75 A | 1.19 A | 0.95 A |
| | Starting Current | 2.30 A | 2.30 A | 2.30 A |
| | Open Circuit Voltage | 305V | 305V | 305V |
| | Drop Out Voltage | 72V | 166V | 208V |
| | Power Factor (>=)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -29 | -20 / -29 | -20 / -29 |
| | Fuse Rating | 8 | 3 | 3 |
| | UL Bench Top Rise | A | A | A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|-------------------------------------|
| Wiring diagram HID W-(M) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.17 in (55 mm) |
| B | 3.62 in (92 mm) |
| Weight | 10.02 lbs |
| Exit Type | Side |
| Nominal Length | 4.37 in (111 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 4.75 in (121 mm) |

87212 – GEM250ML5AC4-5

Metal Halide

1 – 250W MH M58 or 5-Tap (120/208/240/277/480V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M58 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 15 Mfd GECAP-15/400V-O |
| Voltage (MIN) | 400 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | | |
| M58 | System Wattage (W) | 120 | 208 | 240 | 277 | 480 |
| | Nominal Current | 4.00 A | 2.30 A | 2.00 A | 1.70 A | 1.00 A |
| | Ballast Factor | 1 | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| | Max Input Current | 2.50 A | 1.40 A | 1.30 A | 1.10 A | 0.65 A |
| | Starting Current | 2.50 A | 1.40 A | 1.20 A | 1.00 A | 0.60 A |
| | Open Circuit Voltage | 300V | 300V | 300V | 300V | 300V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | 384V |
| | Power Factor (>=)% | 90 | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 8 | 5 | 4 | 3 | 2 |
| | UL Bench Top Rise | A | A | A | A | A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(K) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 1.8 |
| B | 3.6 |
| Weight | 10.80 lbs |
| Exit Type | Side |
| Nominal Length | 3.2 in (83 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |
| Lead lengths | |
| Orange | |
| Violet and Black | |
| Violet/White | |
| Black/Yellow | |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 250 – 1500W Metal Halide HID Lamps

78523 – GEM400TRIAC4-5

Metal Halide

1 – 400W M59 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M59 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd GECAP-24/480V-O |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| M59 | 120 | 277 | 347 | |
| 400W | System Wattage (W) | 460 | 460 | 460 |
| MH | Nominal Current | 4.0 A | 1.75 A | 1.38 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.86 | 0.86 | 0.86 |
| | Max Input Current | 4.40 A | 1.93 A | 1.52 A |
| | Starting Current | 4.00 A | 4.00 A | 4.00 A |
| | Open Circuit Voltage | 305V | 305V | 305V |
| | Drop Out Voltage | 72V | 166V | 208V |
| | Power Factor (s>=)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -29 | -20 / -29 | -20 / -29 |
| | Fuse Rating | 8 | 3 | 3 |
| | UL Bench Top Rise | A | A | B |

Safety and performance cUL Listed  UL Listed

72300 – GEM400ML5AA4-5/2

Metal Halide

1 – 400W M59 or H33 5-Tap (120/208/240/277/480V) A1 C&C

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M59 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd GECAP-24/400V-O |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | | |
| M59 | 120 | 208 | 240 | 277 | 480 | |
| 400W Quartz | System Wattage (W) | 461 | 461 | 461 | 461 | 461 |
| Metal Halide | Nominal Current | 4.0 A | 2.3 A | 2.0 A | 1.75 A | 1.00 A |
| | Ballast Factor | 1 | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 |
| | Max Input Current | 4.0 A | 2.3 A | 2.0 A | 1.75 A | 1.00 A |
| | Starting Current | 3.90 A | 3.90 A | 3.90 A | 3.90 A | 3.90 A |
| | Open Circuit Voltage | 300V | 300V | 300V | 300V | 300V |
| | Drop Out Voltage | 580V | 580V | 580V | 580V | 580V |
| | Power Factor (s>=)% | 90 | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 8 | 5 | 4 | 3 | 2 |
| | UL Bench Top Rise | D or A | D or A | D or A | D or A | D or A |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|-------------------------------------|
| Wiring diagram HID W-(M) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.17 in (55 mm) |
| B | 4.06 in (103 mm) |
| Weight | 11.11 lbs |
| Exit Type | Side |
| Nominal Length | 4.37 in (111 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 4.75 in (121 mm) |
| Lead lengths | |
| Orange | |
| Violet and Black | |
| Violet/White | |
| Black/Yellow | |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 Volt) featuring a 480-Volt tap

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(K) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 0.25 in (6 mm) |
| B | 2.17 |
| Weight | 10.8 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |
| Lead lengths | |
| Orange | |
| Violet and Black | |
| Violet/White | |
| Black/Yellow | |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 250 – 1500W Metal Halide HID Lamps

72149 – GEM400MLTAA4-5

Metal Halide

1 – 400W MH M59 Quad (120/208/240/277V) A1 C&C

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M59 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd GECAP-24/400V-O |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | |
| M59 | 120 | 208 | 240 | 277 | |
| 400W Quartz Metal Halide | System Wattage (W) | 457 | 457 | 457 | 457 |
| | Nominal Current | 4.0 A | 2.30 A | 2.00 A | 1.75 A |
| 360W Quartz Metal Halide | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.93 | 0.93 | 0.93 | 0.93 |
| | Max Input Current | 4.0 A | 2.30 A | 2.00 A | 1.75 A |
| | Starting Current | 3.80 A | 3.80 A | 3.80 A | 3.80 A |
| | Open Circuit Voltage | 300V | 300V | 300V | 300V |
| | Drop Out Voltage | 580V | 580V | 580V | 580V |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 8 | 5 | 4 | 3 |
| | UL Bench Top Rise | D or A | D or A | D or A | D or A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(C) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.17 |
| B | 3.90 |
| Weight | 10.80 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

63070 – GEM40048TAA4 – 5/2

Metal Halide

1 – 400W MH M59 480

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M59 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd GECAP-24/400V-O |
| Voltage (MIN) | 400 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | |
|---|--------------------------------|-----------|
| Lamp | Specifications by line voltage | |
| M59 | 480 | |
| 400W Quartz Metal Halide | System Wattage (W) | 460 |
| | Nominal Current | 1.00 A |
| 360W Quartz Metal Halide | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.90 |
| | Max Input Current | 1.00 A |
| | Starting Current | 3.80 A |
| | Open Circuit Voltage | 295V |
| | Drop Out Voltage | 560V |
| | Power Factor (≥)% | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 |
| | Fuse Rating | 2 |
| | UL Bench Top Rise | D or A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(L) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.17 |
| B | 3.90 |
| Weight | 11.50 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 250 – 1500W Metal Halide HID Lamps

63069 – GEM100048TAC5-5/2

Metal Halide

1 – 1000W MH M47 480

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M47 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd GECAP-24/480V-O |
| Voltage (MIN) | 480 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|-------------------------------------|--------------------------------|-----------|
| M47 1000W Quartz Metal Halide | 480 | |
| | System Wattage (W) | 1,050 |
| | Nominal Current | 2.25 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 1 |
| | Max Input Current | 2.25 A |
| | Starting Current | 5.60 A |
| | Open Circuit Voltage | 420V |
| | Drop Out Voltage | 840V |
| | Power Factor (≥)% | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 |
| | Fuse Rating | 5 |
| | UL Bench Top Rise | D or A |

Safety and performance  UL Listed

87213 – GEM1000ML5AA5-5/2

Metal Halide

1 – 1000W MH M47 5-Tap (120/208/240/277/480V)

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M47 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd GECAP-24/480V-O |
| Voltage (MIN) | 480 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | | | | | |
|-------------------------------------|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| M47 1000W Quartz Metal Halide | 120 | 208 | 240 | 277 | 480 | |
| | System Wattage (W) | 1,050 | 1,050 | 1,050 | 1,050 | 1,050 |
| | Nominal Current | 9.00 A | 5.20 A | 4.50 A | 3.90 A | 2.25 A |
| | Ballast Factor | 1 | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| | Max Input Current | 9.00 A | 5.20 A | 4.50 A | 3.90 A | 2.25 A |
| | Starting Current | 5.60 A | 5.60 A | 5.60 A | 5.60 A | 5.60 A |
| | Open Circuit Voltage | 415V | 415V | 415V | 415V | 415V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | 384V |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 18 | 10 | 9 | 7 | 5 |
| | UL Bench Top Rise | D or A | D or A | D or A | D or A | D or A |

Safety and performance  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications.
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity.
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(J) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 7.75 in (197 mm) |
| Width (W) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 3.25 |
| B | 5.20 |
| Weight | 21.30 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 Volt) featuring a 480-Volt tap

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(K) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 7.75 in (197 mm) |
| Width (W) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 3.0 |
| B | 5.0 |
| Weight | 21.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |
| Lead lengths | |
| Orange | |
| Violet and Black | |
| Violet/White | |
| Black/Yellow | |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 250 – 1500W Metal Halide HID Lamps

86655 – GEM1000MLTAA5-5/2

Metal Halide

1 – 1000W MH M47 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M47 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd GECAP-24/480V-O |
| Voltage (MIN) | 540 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | 120 | 208 | 240 | 277 |
| M47 1000W Quartz Metal Halide | System Wattage (W) | 1,050 | 1,050 | 1,050 | 1,050 |
| | Nominal Current | 8.80 A | 5.10 A | 4.40 A | 3.80 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.91 | 0.91 | 0.91 | 0.91 |
| | Max Input Current | 8.80 A | 5.10 A | 4.40 A | 3.80 A |
| | Starting Current | 5.60 A | 5.60 A | 5.60 A | 5.60 A |
| | Open Circuit Voltage | 415V | 415V | 415V | 415V |
| | Drop Out Voltage | 830V | 830V | 830V | 830V |
| | Power Factor (s>=)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 18 | 10 | 9 | 7 |
| | UL Bench Top Rise | D or A | D or A | D or A | D or A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(C) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 7.75 in (197 mm) |
| Width (W) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 3.10 |
| B | 5.30 |
| Weight | 20.30 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |

78524 – GEM1000TRAC5-5

Metal Halide

1 – 1000W M47 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M47 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd GECAP-24/480V-O |
| Voltage (MIN) | 540 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | 120 | 277 | 347 |
| M47 1000W MH | System Wattage (W) | 1080 | 1080 | 1080 |
| | Nominal Current | 9.5 A | 4.0 A | 3.3 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.92 | 0.92 | 0.92 |
| | Max Input Current | 10.5 A | 4.4 A | 3.6 A |
| | Starting Current | 5.70 A | 5.70 A | 5.70 A |
| | Open Circuit Voltage | 305V | 305V | 305V |
| | Drop Out Voltage | 72V | 166V | 208V |
| | Power Factor (s>=)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -29 | -20 / -29 | -20 / -29 |
| | Fuse Rating | 28 | 12 | 10 |
| | UL Bench Top Rise | E | E | E |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|-------------------------------------|
| Wiring diagram HID W-(M) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.96 in (75 mm) |
| B | 4.92 in (125 mm) |
| Weight | 24.1 lbs |
| Exit Type | Side |
| Nominal Length | 5.37 in (136 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 6.00 in (152 mm) |

Metal Halide

HID Electronic and Electromagnetic Ballasts For 250 – 1500W Metal Halide HID Lamps

86693 – GEM150048TAC5M5-5

Metal Halide

1 – 1500W MH M48 480

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M48 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 32 Mfd GECAP-32/525V-0 |
| Voltage (MIN) | 525 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|-------------------------------------|--------------------------------|-----------|
| M48 1500W Quartz Metal Halide | 480 | |
| | System Wattage (W) | 1,581 |
| | Nominal Current | 3.10 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.95 |
| | Max Input Current | 3.10 A |
| | Starting Current | 3.18 A |
| | Open Circuit Voltage | 449V |
| | Drop Out Voltage | 384V |
| | Power Factor (≥)% | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 |
| | Fuse Rating | 10 |
| | UL Bench Top Rise | G |

Safety and performance  UL Listed

86698 – GEM1500MLTAC5-5

Metal Halide

1 – 1500W MH M48 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M48 |
| Voltage | 240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 32 Mfd GECAP-32/525V-0 |
| Voltage (MIN) | 525 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | | | | |
|-------------------------------------|--------------------------------|-----------|-----------|-----------|-----------|
| M48 1500W Quartz Metal Halide | 120 | 208 | 240 | 277 | |
| | System Wattage (W) | 1,602 | 1,602 | 1,602 | 1,602 |
| | Nominal Current | 13.70 A | 7.70 A | 6.80 A | 6.00 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.94 | 0.94 | 0.94 | 0.94 |
| | Max Input Current | 13.70 A | 7.70 A | 6.80 A | 6.00 A |
| | Starting Current | 12.95 A | 7.46 A | 6.52 A | 5.75 A |
| | Open Circuit Voltage | 440V | 440V | 440V | 440V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 40 | 25 | 20 | 20 |
| | UL Bench Top Rise | E | A | A | A |

Safety and performance  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(J) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 7.75 in (197 mm) |
| Width (W) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 4.0 |
| B | 6.0 |
| Weight | 30.00 lbs |
| Exit Type | Side |
| Nominal Length | 5.2 in (133 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(C) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 7.75 in (197 mm) |
| Width (W) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 4.0 |
| B | 6.0 |
| Weight | 30.00 lbs |
| Exit Type | Side |
| Nominal Length | 5.2 in (133 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |

Pulse Start

HID Electronic and Electromagnetic For 175 – 1000W Pulse Start Metal Halide HID Lamps

67335 – GEP175MLTACA3-5/2

Pulse Start

1 – 175W PS M137 or M152 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M152, M137 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 10 Mfd GE CAP-10/450V-O |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | |
| | 120 | 208 | 240 | 277 | |
| M153 250W Quartz | System Wattage (W) | 215 | 215 | 215 | 215 |
| | Nominal Current | 1.88 A | 1.08 A | 0.94 A | 0.82 A |
| Metal Halide | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | .08 | .08 | .08 | .08 |
| M137 175W Quartz | Max Input Current | 1.88 A | 1.08 A | 0.94 A | 0.82 A |
| | Starting Current | 1.70 A | 1.70 A | 1.70 A | 1.70 A |
| Metal Halide | Open Circuit Voltage | 305V | 305V | 305V | 305V |
| | Drop Out Voltage | 580V | 580V | 580V | 580V |
| Metal Halide | Power Factor (>=) % | 90 | 90 | 90 | 90 |
| | Min. Starting Temp | -20 / -30 | -20 / -30 | -20 / -30 | -20 / -30 |
| | Fuse Rating | 3 | 2 | 2 | 1 |
| | UL Bench Top Rise | D or A | D or A | D or A | D or A |

Safety and performance  UL Listed

78525 – GEP175TRIAC3-5

Pulse Start

1 – 175W PS M137 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M137 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 12 Mfd |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | |
|---|--------------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | | |
| | 120 | 277 | 347 |
| M137 200W PS | System Wattage (W) | 215 | 215 |
| | Nominal Current | 1.95 A | 0.85 A |
| | Ballast Factor | 1 | 1 |
| | Ballast Efficiency Factor | 0.86 | 0.86 |
| | Max Input Current | 2.15 A | .75 A |
| | Starting Current | 1.85 A | 1.85 A |
| | Open Circuit Voltage | 270V | 270V |
| | Drop Out Voltage | 78V | 180V |
| | Power Factor (>=) % | 90 | 90 |
| | Min. Starting Temp | -40 / -40 | -40 / -40 |
| | Fuse Rating | 6 | 2 |
| | UL Bench Top Rise | A | A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(A) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.60 |
| B | 3.90 |
| Weight | 7.20 lbs |
| Exit Type | Side |
| Nominal Length | 3.2 in (83 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.17 in (55 mm) |
| B | 3.62 in (92 mm) |
| Weight | 6.98 lbs |
| Exit Type | Side |
| Nominal Length | 3.54 in (90 mm) |
| Frame Size (H x L) | 2.82 in (72 mm) x 3.94 in (101 mm) |

Pulse Start

HID Electronic and Electromagnetic For 175 – 1000W Pulse Start Metal Halide HID Lamps

67334 – GEP17548TAA3-5/2

Pulse Start

1 – 175W PS M137 or M152 480

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M152, M137 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 10 Mfd GECAP-10/400V-0 |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|---|--------------------------------|-----------|
| M152, M137 175W Quartz Metal Halide | 480 | |
| | System Wattage (W) | 215 |
| | Nominal Current | 0.47 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.81 |
| | Max Input Current | 0.47 A |
| | Starting Current | 1.70 A |
| | Open Circuit Voltage | 300V |
| | Drop Out Voltage | 580V |
| | Power Factor (≥)% | 90 |
| | Min. Starting Temp (*F/°C) | -20 / -30 |
| | Fuse Rating | 1 |
| | UL Bench Top Rise | C or A |

Safety and performance  UL Listed

78526 – GEP200TRIAC3-5

Pulse Start

1 – 200W PS M136 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M136 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 16 Mfd |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | | | |
|--------------------|--------------------------------|-----------|-----------|-----------|
| M136 200W PS | 120 | 277 | 347 | |
| | System Wattage (W) | 240 | 240 | 240 |
| | Nominal Current | 2.2 A | 0.95 A | 0.76 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.81 | 0.81 | 0.81 |
| | Max Input Current | 2.20 A | 0.95 A | 0.76 A |
| | Starting Current | 1.95 A | 1.95 A | 1.95 A |
| | Open Circuit Voltage | 250V | 250V | 250V |
| | Drop Out Voltage | 90V | 208V | 260V |
| | Power Factor (≥)% | 90 | 90 | 90 |
| | Min. Starting Temp (*F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 7 | 3 | 2 |
| | UL Bench Top Rise | D | B | A |

Safety and performance  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|---|---------------------|
| Wiring diagram HID W-(E) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.6 |
| B | 3.9 |
| Weight | 7.20 lbs |
| Exit Type | Side |
| Nominal Length | 3.2 in (83 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|---|------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.48 in (63 mm) |
| B | 3.94 in (100 mm) |
| Weight | 7.77 lbs |
| Exit Type | Side |
| Nominal Length | 3.54 in (90 mm) |
| Frame Size (H x L) | 2.82 in (72 mm) x 3.94 in (101 mm) |

Pulse Start

HID Electronic and Electromagnetic For 175 – 1000W Pulse Start Metal Halide HID Lamps

67344 – GEP250MLTAA4-5/2

Pulse Start

1 – 250W PS M138 or M153 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M153, M138 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 15 Mfd GECAP-15/400V-O |
| Voltage (MIN) | 370 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | |
| M153, M138 250W Quartz Metal Halide | System Wattage (W) | 120 | 208 | 240 | 277 |
| | Nominal Current | 2.45 A | 1.41 A | 1.23 A | 1.06 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.85 | 0.85 | 0.85 | 0.85 |
| | Max Input Current | 2.45 A | 1.41 A | 1.23 A | 1.06 A |
| | Starting Current | 2.45 A | 2.45 A | 2.45 A | 2.45 A |
| | Open Circuit Voltage | 275V | 275V | 275V | 275V |
| | Drop Out Voltage | 550V | 550V | 550V | 550V |
| | Power Factor $b \geq 1\%$ | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 | -20 / -30 | -20 / -30 | -20 / -30 |
| | Fuse Rating | 5 | 3 | 2 | 2 |
| | UL Bench Top Rise | A or B | A or B | A or B | A or B |

Safety and performance  UL Listed

78527 – GEP250TRIAC4-5

Pulse Start

1 – 250W PS M138 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M138 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 15 Mfd GECAP-15/400V-O |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| M138 250W PS | System Wattage (W) | 120 | 277 | 347 |
| | Nominal Current | 2.5 A | 1.1 A | 0.86 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.85 | 0.85 | 0.85 |
| | Max Input Current | 2.75 A | 1.21 A | .95 A |
| | Starting Current | 2.20 A | 0.95 A | 0.80 A |
| | Open Circuit Voltage | 270V | 270V | 270V |
| | Drop Out Voltage | 78V | 180V | 226V |
| | Power Factor $b \geq 1\%$ | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 8 | 3 | 3 |
| | UL Bench Top Rise | A | A | A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(A) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 1.77 |
| B | 3.50 |
| Weight | 9.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.2 in (83 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|-------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 1.5 in (38 mm) |
| B | 3.23 in (82 mm) |
| Weight | 9.4 lbs |
| Exit Type | Side |
| Nominal Length | 4.37 in (111 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 4.75 in (121 mm) |

Pulse Start

HID Electronic and Electromagnetic For 175 – 1000W Pulse Start Metal Halide HID Lamps

67336 – GEP25048TAA4-5/2

Pulse Start

1 – 250W PS M138 or M153 480

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M153, M138 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 15 Mfd GECAP-15/400V-O |
| Voltage (MIN) | 370 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|-------------------------------------|--------------------------------|-----------|
| M153 250W Quartz Metal Halide | | 480 |
| | System Wattage (W) | 294 |
| | Nominal Current | 0.62 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.84 |
| | Max Input Current | 0.62 A |
| | Starting Current | 2.45 A |
| | Open Circuit Voltage | 275V |
| | Drop Out Voltage | 550V |
| | Power Factor (b=)% | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 |
| | Fuse Rating | 1 |
| | UL Bench Top Rise | A or C |
| M138 | | 480 |
| | System Wattage (W) | 294 |
| | Nominal Current | 0.62 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.84 |
| | Max Input Current | 0.62 A |
| | Starting Current | 2.45 A |
| | Open Circuit Voltage | 275V |
| | Drop Out Voltage | 550V |
| | Power Factor (b=)% | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 |
| | Fuse Rating | 1 |
| | UL Bench Top Rise | A or C |

Safety and performance cUL Listed  UL Listed

67345 – GEP320MLTAA4-5/2

Pulse Start

1 – 320W PS M132 or 154 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M154, M132 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 21 Mfd GECAP-21/345V-O |
| Voltage (MIN) | 370 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | | | | |
|------------|--------------------------------|-----------|-----------|-----------|-----------|
| M154, M132 | | 120 | 208 | 240 | 277 |
| | System Wattage (W) | 370 | 370 | 370 | 370 |
| | Nominal Current | 3.10 A | 1.80 A | 1.55 A | 1.34 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.86 | 0.86 | 0.86 | 0.86 |
| | Max Input Current | 3.10 A | 1.80 A | 1.55 A | 1.34 A |
| | Starting Current | 3.20 A | 3.20 A | 3.20 A | 3.20 A |
| | Open Circuit Voltage | 270V | 270V | 270V | 270V |
| | Drop Out Voltage | 540V | 540V | 540V | 540V |
| | Power Factor (b=)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 | -20 / -30 | -20 / -30 | -20 / -30 |
| | Fuse Rating | 7 | 4 | 3 | 3 |
| | UL Bench Top Rise | A or B | A or C | A or C | A or C |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(E) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 1.79 |
| B | 3.50 |
| Weight | 9.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.2 in (83 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(A) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Slots (MS) Mount Width (X or F) | 0.25 in (6 mm) |
| A | 1.89 |
| B | 3.60 |
| Weight | 9.50 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

Pulse Start

HID Electronic and Electromagnetic For 175 – 1000W Pulse Start Metal Halide HID Lamps

78528 – GEP320TRIAC4-5

Pulse Start

1 – 320W PS M132 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M132 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 21 Mfd GECAP-21/345V-0 |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| M132 320W PS | 120 | 277 | 347 | |
| | System Wattage (W) | 375 | 375 | 375 |
| | Nominal Current | 3.2 A | 1.40 A | 1.10 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.86 | 0.86 | 0.86 |
| | Max Input Current | 3.52 A | 1.54 A | 1.21 A |
| | Starting Current | 3.40 A | 3.40 A | 3.40 A |
| | Open Circuit Voltage | 270V | 270V | 270V |
| | Drop Out Voltage | 78V | 180V | 226V |
| | Power Factor (≥)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 10 | 5 | 3 |
| | UL Bench Top Rise | A | A | A |

Safety and performance  UL Listed

67342 – GEP32048TAC4-5/2

Pulse Start

1 – 320W PS M132 or M154 480

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M154, M132 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 21 Mfd GECAP-21/345V-0 |
| Voltage (MIN) | 370 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | |
|---|--------------------------------|-----------|
| Lamp | Specifications by line voltage | |
| M154, M132 | 480 | |
| | System Wattage (W) | 374 |
| | Nominal Current | 0.78 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.85 |
| | Max Input Current | 0.78 A |
| | Starting Current | 3.30 A |
| | Open Circuit Voltage | 265V |
| | Drop Out Voltage | 530V |
| | Power Factor (≥)% | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 |
| | Fuse Rating | 2 |
| | UL Bench Top Rise | A or C |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|---|-------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Slots (MS) Mount Width (X or F) | |
| A | 1.77 in (45 mm) |
| B | 3.50 in (89 mm) |
| Weight | 11.02 lbs |
| Exit Type | Side |
| Nominal Length | 4.37 in (111 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 4.75 in (121 mm) |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(D) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Height (H) | |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.17 |
| B | 3.90 |
| Weight | 10.90 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

Pulse Start

HID Electronic and Electromagnetic For 175 – 1000W Pulse Start Metal Halide HID Lamps

67346 – GEP350MLTAA4-5/2

Pulse Start

1 – 350W PS M131 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M131 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 22 Mfd GECAP-22/345V-0 |
| Voltage (MIN) | 370 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | |
| M131 350W Quartz Metal Halide | System Wattage (W) | 120 | 208 | 240 | 277 |
| | Nominal Current | 3.30 A | 1.90 A | 1.65 A | 1.45 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.86 | 0.86 | 0.86 | 0.86 |
| | Max Input Current | 3.30 A | 1.90 A | 1.65 A | 1.45 A |
| | Starting Current | 3.40 A | 3.40 A | 3.40 A | 3.40 A |
| | Open Circuit Voltage | 265V | 265V | 265V | 265V |
| | Drop Out Voltage | 530V | 530V | 530V | 530V |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 | -20 / -30 | -20 / -30 | -20 / -30 |
| | Fuse Rating | 7 | 4 | 3 | 3 |
| | UL Bench Top Rise | A or D | A or D | A or D | A or D |

Safety and performance  UL Listed

78529 – GEP350TRIAC4-5

Pulse Start

1 – 350W PS M131 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M131 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 22 Mfd |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| M131 350W PS | System Wattage (W) | 120 | 277 | 347 |
| | Nominal Current | 3.40 A | 1.48 A | 1.18 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.84 | 0.84 | 0.84 |
| | Max Input Current | 3.74 A | 1.63 A | 1.30 A |
| | Starting Current | 3.60 A | 3.60 A | 3.60 A |
| | Open Circuit Voltage | 270V | 270V | 270V |
| | Drop Out Voltage | 78V | 180V | 226V |
| | Power Factor (≥)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 10 | 6 | 3 |
| | UL Bench Top Rise | A | A | A |

Safety and performance  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(A) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 1.89 |
| B | 3.6 |
| Weight | 9.50 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|---|-------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 1.77 in (45 mm) |
| B | 3.50 in (89 mm) |
| Weight | 11.10 lbs |
| Exit Type | Side |
| Nominal Length | 4.37 in (111 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 4.75 in (121 mm) |

Pulse Start

HID Electronic and Electromagnetic For 175 – 1000W Pulse Start Metal Halide HID Lamps

67341 – GEP40048TAA4-5/2

Pulse Start

1 – 400W PS M135 or M155 480

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M155, M135 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 26 Mfd GECAP-26/400V-O |
| Voltage (MIN) | 370 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | |
|---|--------------------------------|-----------|
| Lamp | Specifications by line voltage | |
| M155, M135 400W Quartz Metal Halide | 480 | |
| | System Wattage (W) | 465 |
| | Nominal Current | 1.00 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.86 |
| | Max Input Current | 1.00 A |
| | Starting Current | 4.00 A |
| | Open Circuit Voltage | 265V |
| | Drop Out Voltage | 530V |
| | Power Factor (≥%) | 90 |
| | Min. Starting Temp (*F/°C) | -20 / -30 |
| | Fuse Rating | 2 |
| | UL Bench Top Rise | A or C |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(D) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.17 |
| B | 3.90 |
| Weight | 11.50 lbs |
| Exit Type | Side |
| Nominal Length | 4.6 in (119 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

67347 – GEP400MLTAA4-5/2

Pulse Start

1 – 400W PS M59 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M59 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd GECAP-24/400V-O |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | |
| M59 | 120 | 208 | 240 | 277 | |
| | System Wattage (W) | 457 | 457 | 457 | 457 |
| | Nominal Current | 4.00 A | 2.30 A | 2.00 A | 1.75 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.87 | 0.87 | 0.87 | 0.87 |
| | Max Input Current | 4.00 A | 2.30 A | 2.00 A | 1.75 A |
| | Starting Current | 3.80 A | 3.80 A | 3.80 A | 3.80 A |
| | Open Circuit Voltage | 300V | 300V | 300V | 300V |
| | Drop Out Voltage | 580V | 580V | 580V | 580V |
| | Power Factor (≥%) | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (*F/°C) | -20 / -30 | -20 / -30 | -20 / -30 | -20 / -30 |
| | Fuse Rating | 8 | 5 | 4 | 3 |
| | UL Bench Top Rise | A or D | A or D | A or D | A or D |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Qud ballast (120, 208, 240, 277)

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(C) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.17 |
| B | 3.90 |
| Weight | 10.80 lbs |
| Exit Type | Side |
| Nominal Length | 4.6 in (119 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

Pulse Start

HID Electronic and Electromagnetic For 175 – 1000W Pulse Start Metal Halide HID Lamps

78530 – GEP400TRIAC4-5

Pulse Start

1 – 400W PS M135 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M135 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 26 Mfd GECAP-26/525V-0 |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH350-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| M135 400W PS | 120 | 277 | 347 | |
| | System Wattage (W) | 465 | 465 | 465 |
| | Nominal Current | 4.10 A | 1.78 A | 1.40 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.86 | 0.86 | 0.86 |
| | Max Input Current | 4.51 A | 1.96 A | 1.54 A |
| | Starting Current | 4.10 A | 4.10 A | 4.10 A |
| | Open Circuit Voltage | 270V | 270V | 270V |
| | Drop Out Voltage | 78V | 180V | 226V |
| | Power Factor (≥)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 12 | 5 | 4 |
| | UL Bench Top Rise | A | A | A |

Safety and performance  UL Listed

67343 – GEP75048TAA5-5/2

Pulse Start

1 – 750W PS M149 480

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M149 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 28 Mfd GECAP-28/400V-0 |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH750-1A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | |
|---|--------------------------------|-----------|
| Lamp | Specifications by line voltage | |
| M149 750W Quartz Metal Halide | 480 | |
| | System Wattage (W) | 820 |
| | Nominal Current | 1.75 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.90 |
| | Max Input Current | 1.75 A |
| | Starting Current | 5.40 A |
| | Open Circuit Voltage | 330V |
| | Drop Out Voltage | 660V |
| | Power Factor (≥)% | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 |
| | Fuse Rating | 3 |
| | UL Bench Top Rise | A or C |

Safety and performance  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|---|-------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.05 in (52 mm) |
| B | 3.78 in (96 mm) |
| Weight | 12.69 lbs |
| Exit Type | Side |
| Nominal Length | 4.37 in (111 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 4.75 in (121 mm) |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(D) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 7.75 in (197 mm) |
| Width (W) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 3.0 |
| B | 5.10 |
| Weight | 19.60 lbs |
| Exit Type | Side |
| Nominal Length | 4.2 in (108 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |

Pulse Start

HID Electronic and Electromagnetic For 175 – 1000W Pulse Start Metal Halide HID Lamps

67350 – GEP750MLTAA5-5/2

Pulse Start

1 – 750W PS M149 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M149 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 28 Mfd GECAP-28/400V-O |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH750-1B |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | |
| M149 750W Quartz Metal Halide | System Wattage (W) | 120 | 208 | 240 | 277 |
| | Nominal Current | 820 | 820 | 820 | 820 |
| | Nominal Current | 7.0 A | 4.0 A | 3.5 A | 3.0 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.90 | 0.90 | 0.90 | 0.90 |
| | Max Input Current | 7.0 A | 4.0 A | 3.5 A | 3.0 A |
| | Starting Current | 5.40 A | 5.40 A | 5.40 A | 5.40 A |
| | Open Circuit Voltage | 335V | 335V | 335V | 335V |
| | Drop Out Voltage | 670V | 670V | 670V | 670V |
| | Power Factor (≥1%) | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 | -20 / -30 | -20 / -30 | -20 / -30 |
| | Fuse Rating | 14 | 8 | 7 | 6 |
| | UL Bench Top Rise | A or D | A or D | A or D | A or D |

Safety and performance  UL Listed

78531 – GEP750TRIAC5-5

Pulse Start

1 – 750W PS M149 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M149 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 28 Mfd GECAP-28/400V-O |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | MH750-1B |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| M149 750W PS | System Wattage (W) | 120 | 277 | 347 |
| | System Wattage (W) | 840 | 840 | 840 |
| | Nominal Current | 7.3 A | 3.16 A | 2.50 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.91 | 0.91 | 0.91 |
| | Max Input Current | 8.0 A | 3.5 A | 2.80 A |
| | Starting Current | 5.50 A | 5.50 A | 5.50 A |
| | Open Circuit Voltage | 340V | 340V | 340V |
| | Drop Out Voltage | 84V | 194V | 243V |
| | Power Factor (≥1%) | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 22 | 11 | 10 |
| | UL Bench Top Rise | A | A | A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(A) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 7.75 in (197 mm) |
| Width (W) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 3.0 |
| B | 5.10 |
| Weight | 20.00 lbs |
| Exit Type | Side |
| Nominal Length | 4.2 in (108 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|----------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.80 in (71 mm) |
| B | 4.50 in (114 mm) |
| Weight | 20.83 lbs |
| Exit Type | Side |
| Nominal Length | 5.37 in (136 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 6 in (152 mm) |

Pulse Start

HID Electronic and Electromagnetic For 175 – 1000W Pulse Start Metal Halide HID Lamps

67348 – GEP1000MLTAA5-5/2

Pulse Start

1 – 1000W PS M141 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M141 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd GE CAP-24/480V-0 |
| Voltage (MIN) | 480 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS100-4B |
| Sound Rating | D (37-42 decibels) |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|--|
| Lamp | Specifications by line voltage | | | | |
| M141 | 120 | 208 | 240 | 277 | |
| System Wattage (W) | 1075 | 1075 | 1075 | 1075 | |
| Nominal Current | 9.0 A | 5.2 A | 4.5 A | 3.9 A | |
| Ballast Factor | 1 | 1 | 1 | 1 | |
| Ballast Efficiency Factor | 0.91 | 0.91 | 0.91 | 0.91 | |
| Max Input Current | 9.0 A | 5.2 A | 4.5 A | 3.9 A | |
| Starting Current | 5.60 A | 5.60 A | 5.60 A | 5.60 A | |
| Open Circuit Voltage | 420V | 420V | 420V | 420V | |
| Drop Out Voltage | 840V | 840V | 840V | 840V | |
| Power Factor (p=) | 90 | 90 | 90 | 90 | |
| Min. Starting Temp (°F/°C) | -20 / -30 | -20 / -30 | -20 / -30 | -20 / -30 | |
| Fuse Rating | 18 | 10 | 9 | 8 | |
| UL Bench Top Rise | A or D | A or D | A or D | A or D | |

Safety and performance cUL Listed  UL Listed

78532 – GEP1000TRIAC5-5

Pulse Start

1 – 1000W PS M141 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M141 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 25 Mfd |
| Voltage (MIN) | 450 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS1000-4B |
| Sound Rating | D (37-42 decibels) |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|--|
| Lamp | Specifications by line voltage | | | |
| M141 1000W PS | 120 | 277 | 347 | |
| System Wattage (W) | 1075 | 1075 | 1075 | |
| Nominal Current | 9.0 A | 3.9 A | 3.1 A | |
| Ballast Factor | 1 | 1 | 1 | |
| Ballast Efficiency Factor | 0.92 | 0.92 | 0.92 | |
| Max Input Current | 9.9 A | 4.3 A | 3.4 A | |
| Starting Current | 5.50 A | 5.50 A | 5.50 A | |
| Open Circuit Voltage | 390V | 390V | 390V | |
| Drop Out Voltage | | | | |
| Power Factor (p=) | 90 | 90 | 90 | |
| Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 | |
| Fuse Rating | 30 | 12 | 10 | |
| UL Bench Top Rise | A | A | A | |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(A) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Width (W) | 7.75 in (197 mm) |
| Length (L) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | 6.1 in (155 mm) |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 3.05 |
| B | 5.20 |
| Weight | 20.30 lbs |
| Exit Type | Side |
| Nominal Length | 4.25 in (108 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |

| Dimensions | |
|--|------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Width (W) | 5.25 in (133 mm) |
| Length (L) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.80 in (71 mm) |
| B | 4.50 in (114 mm) |
| Weight | 21.0 lbs |
| Exit Type | Side |
| Nominal Length | 5.37 in (136 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 6.0 in (152 mm) |

Pulse Start

HID Electronic and Electromagnetic For 175 – 1000W Pulse Start Metal Halide HID Lamps

67349 – GEP1000ML5AA5-5/2

Pulse Start

1 – 1000W PS M141 5-Tap (120/208/240/277/480V)

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M141 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | Pulse Start CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd GE CAP-24/480V-0 |
| Voltage (MIN) | 540 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS1000-4B |
| Sound Rating | D (37-42 decibels) |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|--|
| Lamp | Specifications by line voltage | | | | | |
| M141 | 120 | 208 | 240 | 277 | 480 | |
| System Wattage (W) | 1050 | 1050 | 1050 | 1050 | 1050 | |
| Nominal Current | 9.00 A | 5.20 A | 4.50 A | 3.90 A | 2.25 A | |
| Ballast Factor | 1 | 1 | 1 | 1 | 1 | |
| Ballast Efficiency Factor | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | |
| Max Input Current | 9.00 A | 5.20 A | 4.50 A | 3.90 A | 2.25 A | |
| Starting Current | 5.60 A | 5.60 A | 5.60 A | 5.60 A | 5.60 A | |
| Open Circuit Voltage | 420V | 420V | 420V | 420V | 420V | |
| Drop Out Voltage | 840V | 840V | 840V | 840V | 840V | |
| Power Factor (≥%) | 90 | 90 | 90 | 90 | 90 | |
| Min. Starting Temp (°F/°C) | -20 / -30 | -20 / -30 | -20 / -30 | -20 / -30 | -20 / -30 | |
| Fuse Rating | 18 | 10 | 9 | 7 | 5 | |
| UL Bench Top Rise | A or C | A or C | A or C | A or C | A or C | |

Safety and performance  UL Listed

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(A) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Width (W) | 7.75 in (197 mm) |
| Length (L) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | 6.1 in (155 mm) |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 3.25 |
| B | 5.40 |
| Weight | 21.90 lbs |
| Exit Type | Side |
| Nominal Length | 4.25 in (108 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |

High Pressure Sodium

HID Electronic and Electromagnetic For 50 – 150W High Pressure Sodium HID Lamps

87152 – GES50MLTLC3D-5

High Pressure Sodium

1 – 50W HPS S68 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S68 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 180C |
| Type of Capacitor | Dry film |
| Capacitance | 5 Mfd GECAP-5/300V-D |
| Voltage (MIN) | 280 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS150-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | |
| | 120 | 208 | 240 | 277 | |
| S68 50W High Pressure Sodium | System Wattage (W) | 69 | 69 | 69 | 69 |
| | Nominal Current | 0.70 A | 0.40 A | 0.30 A | 0.30 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.72 | 0.72 | 0.72 | 0.72 |
| | Max Input Current | 0.93 A | 0.54 A | 0.46 A | 0.40 A |
| | Starting Current | 0.74 A | 0.43 A | 0.37 A | 0.32 A |
| | Open Circuit Voltage | 122V | 122V | 122V | 122V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V |
| | Power Factor (>=)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 5 | 3 | 3 | 2 |
| | UL Bench Top Rise | B | B | B | B |

Safety and performance cUL Listed  UL Listed

78533 – GES50TRILC3-5

High Pressure Sodium

1 – 50W HPS S68 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S68 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Dry film |
| Capacitance | 5 Mfd |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS150-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| | 120 | 277 | 347 | |
| S68 50W HPS | System Wattage (W) | 72 | 72 | 72 |
| | Nominal Current | 0.66 A | 0.29 A | 0.23 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.73 | 0.73 | 0.73 |
| | Max Input Current | 73 A | 32 A | 25 A |
| | Starting Current | 1.60 A | 1.60 A | 1.60 A |
| | Open Circuit Voltage | 120V | 120V | 120V |
| | Drop Out Voltage | 102V | 235V | 295V |
| | Power Factor (>=)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 2 | 1 | 1 |
| | UL Bench Top Rise | A | A | A |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|---|---------------------|
| Wiring diagram HID W-(H) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 1.0 |
| B | 3.0 |
| Weight | 3.40 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (70 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|---|------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 1.02 in (26 mm) |
| B | 2.48 in (63 mm) |
| Weight | 3.60 lbs |
| Exit Type | Side |
| Nominal Length | 3.54 in (90 mm) |
| Frame Size (H x L) | 2.82 in (72 mm) x 3.94 in (101 mm) |

High Pressure Sodium HID Electronic and Electromagnetic For 50 – 150W High Pressure Sodium HID Lamps

86587 – GES70MLTLA3D-5

High Pressure Sodium

1 – 70W HPS S62 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S62 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 180C |
| Type of Capacitor | Dry film |
| Capacitance | 7 Mfd GECAP-7/300V-D |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS150-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | |
| | 120 | 208 | 240 | 277 | |
| S62 | | | | | |
| 70W High Pressure Sodium | System Wattage (W) | 91 | 91 | 91 | 91 |
| | Nominal Current | 0.80 A | 0.50 A | 0.40 A | 0.40 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.77 | 0.77 | 0.77 | 0.77 |
| | Max Input Current | 1.34 A | 0.78 A | 0.67 A | 0.59 A |
| | Starting Current | 0.78 A | 0.46 A | 0.39 A | 0.35 A |
| | Open Circuit Voltage | 118V | 118V | 118V | 118V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V |
| | Power Factor (>=)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 5 | 3 | 3 | 2 |
| | UL Bench Top Rise | B | B | B | B |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(H) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.0 |
| B | 3.0 |
| Weight | 5.50 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (70 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

78534 – GES70TRILC3-5

High Pressure Sodium

1 – 70W HPS S62 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S62 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Dry film |
| Capacitance | 7 Mfd GECAP-7/300V-D |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS150-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | |
|---|--------------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | | |
| | 120 | 277 | 347 |
| S62 | | | |
| 70W HPS | System Wattage (W) | 96 | 96 |
| | Nominal Current | 0.88 A | 0.38 A |
| | Ballast Factor | 1 | 1 |
| | Ballast Efficiency Factor | 0.745 | 0.745 |
| | Max Input Current | .97 A | .42 A |
| | Starting Current | 2.10 A | 2.10 A |
| | Open Circuit Voltage | 120V | 120V |
| | Drop Out Voltage | 102V | 235V |
| | Power Factor (>=)% | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 |
| | Fuse Rating | 3 | 1.5 |
| | UL Bench Top Rise | A | A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 1.50 in (38 mm) |
| B | 2.95 in (75 mm) |
| Weight | 4.85 lbs |
| Exit Type | Side |
| Nominal Length | 3.54 in (90 mm) |
| Frame Size (H x L) | 2.82 in (72 mm) x 3.94 in (101 mm) |

High Pressure Sodium

HID Electronic and Electromagnetic For 50 – 150W High Pressure Sodium HID Lamps

67340 – GES7048TLA3D-5/2

High Pressure Sodium

1 – 70W HPS S62 480V

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S62 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Dry film |
| Capacitance | 7 Mfd GECAP-7/300V-D |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS150-3A 86635 |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|------------------------------------|--------------------------------|-----------|
| S62 70W High Pressure Sodium | 480 | |
| | System Wattage (W) | 93 |
| | Nominal Current | 0.22 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.74 |
| | Max Input Current | 0.22 A |
| | Starting Current | 1.85 A |
| | Open Circuit Voltage | 120V |
| | Drop Out Voltage | 170V |
| | Power Factor (>=)% | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 |
| | Fuse Rating | 1 |
| | UL Bench Top Rise | A |

Safety and performance cUL Listed  UL Listed

87074 – GES100MLTLC3D-5

High Pressure Sodium

1 – 100W HPS S54 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S54 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 180C |
| Type of Capacitor | Dry film |
| Capacitance | 10 Mfd GECAP-10/400V-O |
| Voltage (MIN) | 280 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS150-3A 86635 |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | | | | |
|-------------------------------------|--------------------------------|-----------|-----------|-----------|-----------|
| S54 100W High Pressure Sodium | 120 | 208 | 240 | 277 | |
| | System Wattage (W) | 123 | 123 | 123 | |
| | Nominal Current | 2.20 A | 1.30 A | 1.10 A | 0.90 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 1.22 | 1.22 | 1.22 | 1.22 |
| | Max Input Current | 2.18 A | 1.27 A | 1.13 A | 0.94 A |
| | Starting Current | 0.74 A | 0.43 A | 0.36 A | 0.31 A |
| | Open Circuit Voltage | 119V | 119V | 119V | 119V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V |
| | Power Factor (>=)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 8 | 5 | 5 | 3 |
| | UL Bench Top Rise | B | B | B | B |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(F) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 1.9 |
| B | 3.0 |
| Weight | 6.00 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (70 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(H) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.0 |
| B | 4.0 |
| Weight | 6.20 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (70 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

High Pressure Sodium

HID Electronic and Electromagnetic For 50 – 150W High Pressure Sodium HID Lamps

78535 – GES100TRILC3-5

High Pressure Sodium

1 – 100W HPS S54 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S54 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Dry film |
| Capacitance | 10 Mfd GECAP-10/400V-O |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS150-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | | | |
|------|--------------------------------|-----------|-----------|-----------|
| | 120 | 277 | 347 | |
| S54 | | | | |
| 100W | System Wattage (W) | 129 | 129 | 129 |
| HPS | Nominal Current | 1.16 A | 0.50 A | 0.40 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.78 | 0.78 | 0.78 |
| | Max Input Current | 1.16 A | .55 A | .44 A |
| | Starting Current | 2.80 A | 2.80 A | 2.80 A |
| | Open Circuit Voltage | 120V | 120V | 120V |
| | Drop Out Voltage | 102V | 235V | 295V |
| | Power Factor (>=)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 3 | 2 | 1.5 |
| | UL Bench Top Rise | A | A | A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.00 in (50 mm) |
| B | 3.47 in (88 mm) |
| Weight | 6.38 lbs |
| Exit Type | Side |
| Nominal Length | 3.54 in (90 mm) |
| Frame Size (H x L) | 2.82 in (72 mm) x 3.94 in (101 mm) |

67338 – GES10048TLA3D-5/2

High Pressure Sodium

1 – 100W HPS S54 480V

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S54 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Dry film |
| Capacitance | 10 Mfd GECAP-10/400V-O |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS150-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|---------------------------|--------------------------------|-----------|
| | 480 | |
| S54 | | |
| 100W High Pressure Sodium | System Wattage (W) | 125 |
| | Nominal Current | 0.29 A |
| | Ballast Factor | 1 |
| 150W High Pressure Sodium | Ballast Efficiency Factor | 0.79 |
| | Max Input Current | 0.29 A |
| | Starting Current | 2.85 A |
| | Open Circuit Voltage | 120V |
| | Drop Out Voltage | 170V |
| | Power Factor (>=)% | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 |
| | Fuse Rating | 1 |
| | UL Bench Top Rise | A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(F) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.0 |
| B | 3.10 |
| Weight | 6.20 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

High Pressure Sodium

HID Electronic and Electromagnetic For 50 – 150W High Pressure Sodium HID Lamps

87094 – GES150MLTLC3D-5

High Pressure Sodium

1 – 150W HPS S55 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S55 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 180C |
| Type of Capacitor | Dry film |
| Capacitance | 14 Mfd GECAP-14/280V-D |
| Voltage (MIN) | 280 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS150-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | |
| | 120 | 208 | 240 | 277 | |
| S55 150W High Pressure Sodium | System Wattage (W) | 175 | 175 | 175 | 175 |
| | Nominal Current | 1.60 A | 0.90 A | 0.80 A | 0.70 A |
| 250W Quartz Metal Halide | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 1.43 | 1.43 | 1.43 | 1.43 |
| | Max Input Current | 2.72 A | 1.53 A | 1.34 A | 1.16 A |
| | Starting Current | 1.64 A | 0.88 A | 0.76 A | 0.65 A |
| | Open Circuit Voltage | 115V | 115V | 115V | 115V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V |
| | Power Factor (s=)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 10 | 5 | 5 | 5 |
| | UL Bench Top Rise | B | B | B | B |

Safety and performance cUL Listed  UL Listed

78536 – GES150TRILC3-5

High Pressure Sodium

1 – 150W HPS S55 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S55 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Dry film |
| Capacitance | 14 Mfd GECAP-14/280V-D |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS150-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| | 120 | 277 | 347 | |
| S55 150W HPS | System Wattage (W) | 190 | 190 | 190 |
| | Nominal Current | 1.66 A | 0.72 A | 0.58 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.79 | 0.79 | 0.79 |
| | Max Input Current | 1.83 A | 80 A | .64 A |
| | Starting Current | 4.10 A | 4.10 A | 4.10 A |
| | Open Circuit Voltage | 120V | 120V | 120V |
| | Drop Out Voltage | 102V | 235V | 295V |
| | Power Factor (s=)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 5 | 3 | 2 |
| | UL Bench Top Rise | A | A | A |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(H) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 3.0 |
| B | 4.0 |
| Weight | 7.60 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.48 in (63 mm) |
| B | 4.94 in (126 mm) |
| Weight | 7.83 lbs |
| Exit Type | Side |
| Nominal Length | 3.54 in (90 mm) |
| Frame Size (H x L) | 2.82 in (72 mm) x 3.94 in (101 mm) |

High Pressure Sodium

HID Electronic and Electromagnetic For 50 – 150W High Pressure Sodium HID Lamps

67339 – GES15048TLA3D-5/2

High Pressure Sodium

1 – 150W HPS S55 480V

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S55 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Dry film |
| Capacitance | 14 Mfd GECAP-14/280V-D |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS150-3A 86635 |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|---------------------------|--------------------------------|-----------|
| S55 | | 480 |
| | System Wattage (W) | 190 |
| 150W High Pressure Sodium | Nominal Current | 0.42 A |
| | Ballast Factor | 1 |
| 250W Quartz Metal Halide | Ballast Efficiency Factor | 0.78 |
| | Max Input Current | 0.42 A |
| | Starting Current | 4.10 A |
| | Open Circuit Voltage | 120V |
| | Drop Out Voltage | 170V |
| | Power Factor (>=)% | 90 |
| | Min. Starting Temp (*F/*C) | -20 / -30 |
| | Fuse Rating | 2 |
| | UL Bench Top Rise | A or D |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement

| Dimensions | |
|---|---------------------|
| Wiring diagram HID W-(F) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.65 |
| B | 4.0 |
| Weight | 8.00 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

High Pressure Sodium

HID Electronic and Electromagnetic For 250 – 1000W High Pressure Sodium HID Lamps

87214 – GES250ML5AA4-5

High Pressure Sodium

1 – 250W HPS S50 5-Tap (120/208/240/277/480V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S50 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 35 Mfd GE CAP-35/240V-O |
| Voltage (MIN) | 240 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS400-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | | |
| | 120 | 208 | 240 | 277 | 480 | |
| S50 250W High Pressure Sodium | System Wattage (W) | 292 | 292 | 292 | 292 | 292 |
| | Nominal Current | 2.50 A | 1.50 A | 1.30 A | 1.10 A | 0.60 A |
| | Ballast Factor | 1 | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 |
| | Max Input Current | 2.50 A | 1.50 A | 1.30 A | 1.10 A | 0.60 A |
| | Starting Current | 1.59 A | 0.93 A | 0.81 A | 0.70 A | 0.40 A |
| | Open Circuit Voltage | 186V | 186V | 186V | 186V | 186V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | 384V |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 8 | 5 | 4 | 4 | 4 |
| | UL Bench Top Rise | C | C | B | B | B |

Safety and performance cUL Listed  UL Listed

87121 – GES250MLTAC4-5

High Pressure Sodium

1 – 250W HPS S50 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S50 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 35 Mfd GE CAP-35/240V-O |
| Voltage (MIN) | 240 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS400-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|--|
| Lamp | Specifications by line voltage | | | | | |
| | 120 | 208 | 240 | 277 | | |
| S50 250W High Pressure Sodium | System Wattage (W) | 303 | 303 | 303 | 303 | |
| | Nominal Current | 2.60 A | 1.50 A | 1.30 A | 1.10 A | |
| | Ballast Factor | 1 | 1 | 1 | 1 | |
| | Ballast Efficiency Factor | 0.83 | 0.83 | 0.83 | 0.83 | |
| | Max Input Current | 2.60 A | 1.50 A | 1.30 A | 1.10 A | |
| | Starting Current | 1.50 A | 0.86 A | 0.75 A | 0.63 A | |
| | Open Circuit Voltage | 186V | 186V | 186V | 186V | |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 | |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | |
| | Fuse Rating | 8 | 5 | 4 | 4 | |
| | UL Bench Top Rise | A | A | A | A | |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(B) – see example on page 18-68 | |
| Case dimensions – Ref-Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.0 |
| B | 4.0 |
| Weight | 12.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |
| Lead lengths | |
| Orange | |
| Violet and Black | |
| Violet/White | |
| Black/Yellow | |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(A) – see example on page 18-68 | |
| Case dimensions – Ref-Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.0 |
| B | 4.0 |
| Weight | 11.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

High Pressure Sodium HID Electronic and Electromagnetic For 250 – 1000W High Pressure Sodium HID Lamps

78537 – GES250TRIAC4-5

High Pressure Sodium

1 – 250W HPS S50 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S50 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 33 Mfd |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS400-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| | 120 | 277 | 347 | |
| S50 | | | | |
| 250W | | | | |
| HPS | | | | |
| | System Wattage (W) | 295 | 295 | 295 |
| | Nominal Current | 2.55 A | 1.10 A | 0.88 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.84 | 0.84 | 0.84 |
| | Max Input Current | 2.80 A | 1.21 A | .97 A |
| | Starting Current | 4.0 A | 4.0 A | 4.0 A |
| | Open Circuit Voltage | 120V | 120V | 120V |
| | Drop Out Voltage | 84V | 194V | 243V |
| | Power Factor (>=)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 8 | 3 | 3 |
| | UL Bench Top Rise | A | A | B |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|--|-------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 1.62 in (41 mm) |
| B | 3.50 in (89 mm) |
| Weight | 10.16 lbs |
| Exit Type | Side |
| Nominal Length | 4.37 in (111 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 4.75 in (121 mm) |

63066 – GES400ML5AA4-5 (replaces 87215)

High Pressure Sodium

1 – 400W HPS S51 5-Tap (120/208/240/277/480V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S51 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 55 Mfd GECAP-55/240V-O |
| Voltage (MIN) | 240 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS400-3A 86641 |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | | |
| | 120 | 208 | 240 | 277 | 480 | |
| S51 | | | | | | |
| 400W High | | | | | | |
| Pressure Sodium | | | | | | |
| | System Wattage (W) | 472 | 472 | 472 | 472 | 472 |
| | Nominal Current | 4.00 A | 2.20 A | 2.00 A | 1.70 A | 1.00 A |
| | Ballast Factor | 1 | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| | Max Input Current | 4.00 A | 2.20 A | 2.00 A | 1.70 A | 1.00 A |
| | Starting Current | 2.87 A | 1.66 A | 1.44 A | 1.25 A | 0.72 A |
| | Open Circuit Voltage | 191V | 191V | 191V | 191V | 191V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | 384V |
| | Power Factor (>=)% | 90 | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 15 | 8 | 8 | 5 | 5 |
| | UL Bench Top Rise | C | C | C | C | C |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(B) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.0 |
| B | 4.0 |
| Weight | 15.00 lbs |
| Exit Type | Side |
| Nominal Length | 4.2 in (108 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |
| Lead lengths | |
| Orange | |
| Violet and Black | |
| Violet/White | |
| Black/Yellow | |

High Pressure Sodium HID Electronic and Electromagnetic For 250 – 1000W High Pressure Sodium HID Lamps

87164 – GES400MLTAC4-5

High Pressure Sodium

1 – 400W HPS S51 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S51 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 55 Mfd GECAP-55/240V-O |
| Voltage (MIN) | 240 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS400-3A 86641 |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | |
| | 120 | 208 | 240 | 277 | |
| S51 400W High Pressure Sodium | System Wattage (W) | 443 | 443 | 443 | 443 |
| | Nominal Current | 3.80 A | 2.20 A | 1.90 A | 1.60 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.90 | 0.90 | 0.90 | 0.90 |
| | Max Input Current | 3.80 A | 2.20 A | 1.90 A | 1.60 A |
| | Starting Current | 1.78 A | 1.03 A | 0.90 A | 0.77 A |
| | Open Circuit Voltage | 186V | 186V | 186V | 186V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 15 | 8 | 8 | 5 |
| | UL Bench Top Rise | D | D | D | D |

Safety and performance cUL Listed  UL Listed

78539 – GES400TRIAC4-5

High Pressure Sodium

1 – 400W HPS S51 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S51 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 55 Mfd GECAP-55/240V-O |
| Voltage (MIN) | 300 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS400-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| | 120 | 277 | 347 | |
| S51 400W HPS | System Wattage (W) | 465 | 465 | 465 |
| | Nominal Current | 4.0 A | 1.75 A | 1.40 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.85 | 0.85 | 0.85 |
| | Max Input Current | 4.4 A | 1.93 A | 1.54 A |
| | Starting Current | 6.50 A | 6.50 A | 6.50 A |
| | Open Circuit Voltage | 186V | 186V | 186V |
| | Drop Out Voltage | 84V | 194V | 243V |
| | Power Factor (≥)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 12 | 6 | 4 |
| | UL Bench Top Rise | D | D | D |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(A) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.0 |
| B | 4.0 |
| Weight | 13.60 lbs |
| Exit Type | Side |
| Nominal Length | 4.2 in (108 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|---|-------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 2.33 in (59 mm) |
| B | 4.21 in (107 mm) |
| Weight | 13.91 lbs |
| Exit Type | Side |
| Nominal Length | 4.37 in (111 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 4.75 in (121 mm) |

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

High Pressure Sodium

HID Electronic and Electromagnetic For 250 – 1000W High Pressure Sodium HID Lamps

87198 – GES40048TAC4-5

High Pressure Sodium

1 – 400W HPS S51 480V in smaller frame

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S51 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 55 Mfd GE CAP-55/240V-O |
| Voltage (MIN) | 240 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS400-3A |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|-------------------------------------|--------------------------------|-----------|
| S51 400W High Pressure Sodium | 480 | |
| | System Wattage (W) | 475 |
| | Nominal Current | 1.00 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.84 |
| | Max Input Current | 1.00 A |
| | Starting Current | 0.60 A |
| | Open Circuit Voltage | 195V |
| | Drop Out Voltage | 384V |
| | Power Factor (>=)% | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 |
| | Fuse Rating | 5 |
| | UL Bench Top Rise | D |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(D) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.3 |
| B | 4.1 |
| Weight | 15.00 lbs |
| Exit Type | Side |
| Nominal Length | 4.2 in (108 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |

67351 – GES100048TAA5-5/2

High Pressure Sodium

1 – 1000W HPS S52 480V

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S52 |
| Voltage | 480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 26 Mfd GE CAP-26/525V-O |
| Voltage (MIN) | 540 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS 1000-48 |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

Specifications by lamp and line voltage

| Lamp | Specifications by line voltage | |
|--------------------------------------|--------------------------------|-----------|
| S52 1000W High Pressure Sodium | 480 | |
| | System Wattage (W) | 1,110 |
| | Nominal Current | 2.38 A |
| | Ballast Factor | 1 |
| | Ballast Efficiency Factor | 0.90 |
| | Max Input Current | 2.38 A |
| | Starting Current | 6.80 A |
| | Open Circuit Voltage | 440V |
| | Drop Out Voltage | 870V |
| | Power Factor (>=)% | 90 |
| | Min. Starting Temp (°F/°C) | -20 / -30 |
| | Fuse Rating | 5 |
| | UL Bench Top Rise | A or D |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(D) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 7.75 in (197 mm) |
| Width (W) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 4.5 |
| B | 6.6 |
| Weight | 28.60 lbs |
| Exit Type | Side |
| Nominal Length | 4.7 in (121 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |

High Pressure Sodium

HID Electronic and Electromagnetic For 250 – 1000W High Pressure Sodium HID Lamps

87218 – GES1000ML5AA5-5

High Pressure Sodium

1 – 1000W HPS S52 5-Tap (120/208/240/277/480V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S52 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 26 Mfd GE CAP-26/525V-0 |
| Voltage (MIN) | 525 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS1000-4B |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | | |
| | 120 | 208 | 240 | 277 | 480 | |
| S52 1000W High Pressure Sodium | System Wattage (W) | 1,102 | 1,102 | 1,102 | 1,102 | 1,102 |
| | Nominal Current | 9.50 A | 5.50 A | 4.70 A | 4.10 A | 2.40 A |
| | Ballast Factor | 1 | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| | Max Input Current | 9.50 A | 5.50 A | 4.70 A | 4.10 A | 2.40 A |
| | Starting Current | 5.75 A | 3.40 A | 2.90 A | 2.60 A | 1.80 A |
| | Open Circuit Voltage | 435V | 435V | 435V | 435V | 435V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | 384V |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 20 | 15 | 10 | 10 | 8 |
| | UL Bench Top Rise | D | D | D | D | D |

Safety and performance cUL Listed  UL Listed

67352 – GES1000MLTAA5-5/2

High Pressure Sodium

1 – 1000W HPS S52 Quad (120/208/240/277V)

| General characteristics | |
|-------------------------------|----------------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S52 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class H, 180°C or Class N, 200°C |
| Type of Capacitor | Oil filled |
| Capacitance | 26 Mfd GE CAP-26/525V-0 |
| Voltage (MIN) | 540 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS1000-4B |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|--|
| Lamp | Specifications by line voltage | | | | | |
| | 120 | 208 | 240 | 277 | | |
| S52 1000W High Pressure Sodium | System Wattage (W) | 1,110 | 1,110 | 1,110 | 1,110 | |
| | Nominal Current | 9.50 A | 5.50 A | 4.75 A | 4.10A | |
| | Ballast Factor | 1 | 1 | 1 | 1 | |
| | Ballast Efficiency Factor | 0.90 | 0.90 | 0.90 | 0.90 | |
| | Max Input Current | 9.50 A | 5.50 A | 4.75 A | 4.10A | |
| | Starting Current | 6.80 A | 6.80 A | 6.80 A | 6.80 A | |
| | Open Circuit Voltage | 440V | 440V | 440V | 440V | |
| | Drop Out Voltage | 870V | 870V | 870V | 870V | |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 | |
| | Min. Starting Temp (°F/°C) | -20 / -30 | -20 / -30 | -20 / -30 | -20 / -30 | |
| | Fuse Rating | 20 | 10 | 9 | 8 | |
| | UL Bench Top Rise | A or D | A or D | A or D | A or D | |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(B) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 7.75 in (197 mm) |
| Width (W) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 4.0 |
| B | 6.0 |
| Weight | 28.00 lbs |
| Exit Type | Side |
| Nominal Length | 4.7 in (121 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |
| Lead lengths | |
| Orange | |
| Violet and Black | |
| Violet/White | |
| Black/Yellow | |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Quad ballast (120, 208, 240, 277)

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(A) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 7.75 in (197 mm) |
| Width (W) | 2.75 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 4.5 |
| B | 6.6 |
| Weight | 28.60 lbs |
| Exit Type | Side |
| Nominal Length | 4.7 in (121 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |

High Pressure Sodium

HID Electronic and Electromagnetic For 250 – 1000W High Pressure Sodium HID Lamps

78540 – GES1000TRIAC5-5

High Pressure Sodium

1 – 1000W HPS S52 Tri Tap (120/277/347V)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S52 |
| Voltage | 120/277/347 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | Class N, 200C |
| Type of Capacitor | Oil filled |
| Capacitance | 26 Mfd GECAP-26/525V-0 |
| Voltage (MIN) | 540 |
| Capacitor Temperature Rating | 105°C (221°F) |
| GE Igniter | HPS1000-4B |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------------|
| Supply Current Frequency | 50 Hz/60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | 120 | 277 | 347 |
| S52 | | | | |
| 1000W | System Wattage (W) | 1100 | 1100 | 1100 |
| HPS | Nominal Current | 9.50 A | 4.10 A | 3.30 A |
| | Ballast Factor | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.9 | 0.9 | 0.9 |
| | Max Input Current | 10.4 A | 4.5 A | 3.6 A |
| | Starting Current | 7.0 A | 7.0 A | 7.0 A |
| | Open Circuit Voltage | 425V | 425V | 425V |
| | Drop Out Voltage | 84V | 194V | 243V |
| | Power Factor (≥)% | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -40 / -40 | -40 / -40 | -40 / -40 |
| | Fuse Rating | 30 | 12 | 10 |
| | UL Bench Top Rise | A | A | A |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- Tri Tap ballast (120/277/347)

| Dimensions | |
|---|------------------------------------|
| Wiring diagram HID W-(L) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 5.25 in (133 mm) |
| Width (W) | 1.25 in (32 mm) |
| Mounting dimensions | |
| Mount Length (M) | |
| Mount Width (X or F) | |
| Mount Slots (MS) | |
| A | 3.74 in (95 mm) |
| B | 5.71 in (145 mm) |
| Weight | 27.42 lbs |
| Exit Type | Side |
| Nominal Length | 5.37 in (137 mm) |
| Frame Size (H x L) | 4.25 in (108 mm) x 6.0 in (152 mm) |

Safety and performance



High Intensity Discharge Lamp and Ballast Kits

HID Electronic and Electromagnetic Ballasts

71701 – GEM175ML5AC3-55

High Intensity Discharge Lamp and Ballast Kits

1 – 175W MH M57 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M57, H38, M109 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 10 Mfd |
| Voltage (MIN) | 400 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | | |
| M57, M109 | 120 | 208 | 240 | 277 | 480 | |
| System Wattage (W) | 202 | 202 | 202 | 202 | 202 | 202 |
| Nominal Current | 1.70 A | 1.00 A | 0.90 A | 0.80 A | 0.40 A | 0.40 A |
| Ballast Factor | 1 | 1 | 1 | 1 | 1 | 1 |
| Ballast Efficiency Factor | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Max Input Current | 1.70 A | 1.00 A | 0.90 A | 0.80 A | 0.40 A | 0.40 A |
| Starting Current | 0.60 A | 0.37 A | 0.32 A | 0.28 A | 0.21 A | 0.21 A |
| Open Circuit Voltage | 307V | 307V | 307V | 307V | 307V | 307V |
| Drop Out Voltage | 96V | 166V | 192V | 222V | 384V | 384V |
| Power Factor (≥)% | 90 | 90 | 90 | 90 | 90 | 90 |
| Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| Fuse Rating | 5 | 3 | 3 | 2 | 1.5 | 1.5 |
| UL Bench Top Rise | D | C | C | C | C | C |

Safety and performance cUL Listed  UL Listed

71702 – GEM250ML5AC3-55

High Intensity Discharge Lamp and Ballast Kits

1 – 250W MH M58 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M58, H37 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 15 Mfd |
| Voltage (MIN) | 400 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | | |
| M58 | 120 | 208 | 240 | 277 | 480 | |
| 250W Quartz | 280 | 280 | 280 | 280 | 280 | 280 |
| Metal Halide | 2.50 A | 1.40 A | 1.25 A | 1.10 A | 0.65 A | 0.65 A |
| Ballast Factor | 1 | 1 | 1 | 1 | 1 | 1 |
| Ballast Efficiency Factor | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Max Input Current | 2.60 A | 1.60 A | 1.30 A | 1.20 A | 0.70 A | 0.70 A |
| Starting Current | 1.50 A | 1.00 A | 0.80 A | 0.70 A | 0.50 A | 0.50 A |
| Open Circuit Voltage | 290V | 290V | 290V | 290V | 290V | 290V |
| Drop Out Voltage | 96V | 166V | 192V | 222V | 384V | 384V |
| Power Factor (≥)% | 90 | 90 | 90 | 90 | 90 | 90 |
| Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| Fuse Rating | 8 | 5 | 4 | 3 | 2 | 2 |
| UL Bench Top Rise | B | B | B | C | C | C |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|---|---------------------|
| Wiring diagram HID W-(K) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.3 in (133 mm) |
| Width (W) | 1.3 in (33 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.3 in (8 mm) |
| A | 3.0 |
| B | 4.0 |
| Weight | 8.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.2 in (83 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |
| Lead Lengths | |
| Orange and Red | |
| Violet and Black | |
| Black/Yellow | |
| Violet/White | |
| Yellow | |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|---|---------------------|
| Wiring diagram HID W-(H) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.3 in (133 mm) |
| Width (W) | 1.3 in (33 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.3 in (8 mm) |
| A | 3.0 |
| B | 4.3 |
| Weight | 9.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.2 in (83 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |
| Lead Lengths | |
| Orange and Red | |
| Violet and Black | |
| Black/Yellow | |
| Violet/White | |
| Yellow | |

High Intensity Discharge Lamp and Ballast Kits

HID Electronic and Electromagnetic Ballasts

71703 – GEM400ML5AC4-55

High Intensity Discharge Lamp and Ballast Kits

1 – 400W MH M59 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M59, H33 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd |
| Voltage (MIN) | 400 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | | |
| M59 | 120 | 208 | 240 | 277 | 480 | |
| 360W Quartz Metal Halide | System Wattage (W) | 436 | 436 | 436 | 436 | 436 |
| | Nominal Current | 3.70 A | 2.10 A | 1.90 A | 1.60 A | 0.90 A |
| 400W Quartz Metal Halide | Ballast Factor | | | | | |
| | Ballast Efficiency Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| | Max Input Current | 3.70 A | 2.10 A | 1.90 A | 1.60 A | 0.90 A |
| 400W Mercury | Starting Current | 2.19 A | 1.31 A | 1.11 A | 1.00 A | 0.60 A |
| | Open Circuit Voltage | 300V | 300V | 300V | 300V | 300V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | 384V |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 10 | 8 | 5 | 5 | 5 |
| | UL Bench Top Rise | E | E | E | E | E |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(K) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 5.3 in (133 mm) |
| Width (W) | 1.3 in (33 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.3 in (8 mm) |
| A | 2.0 |
| B | 4.0 |
| Weight | 12.50 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |
| Lead Lengths | |
| Orange and Red | |
| Violet and Black | |
| Black/Yellow | |
| Violet/White | |
| Yellow | |

71704 – GEM1000ML5AC4-55

High Intensity Discharge Lamp and Ballast Kits

1 – 1000W MH M47 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | M47, H36 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil filled |
| Capacitance | 24 Mfd |
| Voltage (MIN) | 400 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 2 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|--------|
| Lamp | Specifications by line voltage | | | | | |
| M47 | 120 | 208 | 240 | 277 | 480 | |
| 1000W Quartz Metal Halide | System Wattage (W) | 1103 | 1103 | 1103 | 1103 | 1103 |
| | Nominal Current | 9.30 A | 5.40 A | 4.70 A | 4.10 A | 2.40 A |
| 1000W Mercury | Ballast Factor | 1 | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| | Max Input Current | 9.30 A | 5.40 A | 4.70 A | 4.10 A | 2.40 A |
| | Starting Current | 6.34 A | 3.71 A | 3.20 A | 2.79 A | 1.65 A |
| | Open Circuit Voltage | 445V | 445V | 445V | 445V | 445V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | 384V |
| | Power Factor (≥)% | 90 | 90 | 90 | 90 | 90 |
| Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | |
| Fuse Rating | 20 | 15 | 10 | 10 | 10 | |
| UL Bench Top Rise | E | C | C | C | D | |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and igniter (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(K) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC1 – see page 18-71 | |
| Length (L) | 7.8 in (197 mm) |
| Width (W) | 2.8 in (70 mm) |
| Height (H) | |
| Mounting dimensions | |
| Mount Length (M) | 6.1 in (155 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.3 in (8 mm) |
| A | 3.0 |
| B | 5.0 |
| Weight | 21.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 6.00 in |
| Lead Lengths | |
| Orange and Red | |
| Violet and Black | |
| Black/Yellow | |
| Violet/White | |
| Yellow | |

High Intensity Discharge Lamp and Ballast Kits

HID Electronic and Electromagnetic Ballasts

71705 – GES100MLTLC3D-55

High Intensity Discharge Lamp and Ballast Kits

1 – 100W HPS S54 Quad (120/208/240/277V) Lamp & Ballast Kit (-55)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S54 |
| Voltage | 120/208/240/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 180C |
| Type of Capacitor | Dry Film |
| Capacitance | 10 Mfd |
| Voltage (MIN) | 280 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS100-3A 86884 |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 6 |

| Specifications by lamp and line voltage | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | |
| | 120 | 208 | 240 | 277 | |
| S54 100W High Pressure Sodium | System Wattage (W) | 123 | 123 | 123 | 123 |
| | Nominal Current | 2.20 A | 1.30 A | 1.10 A | 0.90 A |
| | Ballast Factor | 1 | 1 | 1 | 1 |
| 150W High Pressure Sodium | Ballast Efficiency Factor | 1.22 | 1.22 | 1.22 | 1.22 |
| | Max Input Current | 2.18 A | 1.27 A | 1.13 A | 0.94 A |
| | Starting Current | 0.74 A | 0.43 A | 0.36 A | 0.31 A |
| | Open Circuit Voltage | 119V | 119V | 119V | 119V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V |
| | Power Factor (s=)% | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 8 | 5 | 5 | 3 |
| UL Bench Top Rise | B | B | B | B | |

Safety and performance cUL Listed  UL Listed

71706 – GES250ML5AC4-55

High Intensity Discharge Lamp and Ballast Kits

1 – 250W HPS S50 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S50 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil Filled |
| Capacitance | 35 Mfd |
| Voltage (MIN) | 240 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS400-3A 86641 |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | | | | | |
| | 120 | 208 | 240 | 277 | 480 | |
| S50 250W High Pressure Sodium | System Wattage (W) | 292 | 292 | 292 | 292 | 292 |
| | Nominal Current | 2.50 A | 1.50 A | 1.30 A | 1.10 A | 0.60 A |
| | Ballast Factor | 1 | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 |
| | Max Input Current | 2.50 A | 1.50 A | 1.30 A | 1.10 A | 0.60 A |
| | Starting Current | 1.59 A | 0.93 A | 0.81 A | 0.70 A | 0.40 A |
| | Open Circuit Voltage | 186V | 186V | 186V | 186V | 186V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | 384V |
| | Power Factor (s=)% | 90 | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 8 | 5 | 4 | 4 | 4 |
| | UL Bench Top Rise | C | C | B | B | B |

Safety and performance cUL Listed  UL Listed

See page E-1 for warranty information.

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|--|---------------------|
| Wiring diagram HID W-(K) – see example on page 18-69 | |
| Case dimensions – Ref Drawing PC3 – see page 18-71 | |
| Length (L) | 5.3 in (133 mm) |
| Width (W) | 1.3 in (33 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.3 in (8 mm) |
| A | 2.0 |
| B | 4.0 |
| Weight | 6.20 lbs |
| Exit Type | Side |
| Nominal Length | 2.7 in (69 mm) |
| Frame Size (H x L) | 2.813 in x 3.939 in |

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|--|-------------------|
| Wiring diagram HID W-(B) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.3 in (133 mm) |
| Width (W) | 1.3 in (33 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.3 in (8 mm) |
| A | 2.0 |
| B | 4.0 |
| Weight | 12.00 lbs |
| Exit Type | Side |
| Nominal Length | 3.7 in (95 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |
| Lead Lengths | |
| Orange and Red | |
| Violet and Black | |
| Black/Yellow | |
| Violet/White | |
| Yellow | |

High Intensity Discharge Lamp and Ballast Kits

HID Electronic and Electromagnetic Ballasts

71707 – GES400ML5AC4-55

High Intensity Discharge Lamp and Ballast Kits

1 – 400W HPS S51 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55)

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S51 |
| Voltage | 120/208/240/277/480 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 180C |
| Type of Capacitor | Oil Filled |
| Capacitance | 55 Mfd |
| Voltage (MIN) | 240 |
| Capacitor Temperature Rating | 100°C (212°F) |
| GE Igniter | HPS1000-4B |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Distributor Kit | 1 | 3 |

| Specifications by lamp and line voltage | | | | | | |
|---|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Lamp | Specifications by line voltage | 120 | 208 | 240 | 277 | 480 |
| S51 400W High Pressure Sodium | System Wattage (W) | 472 | 472 | 472 | 472 | 472 |
| | Nominal Current | 4.00 A | 2.20 A | 2.00 A | 1.70 A | 1.00 A |
| | Ballast Factor | 1 | 1 | 1 | 1 | 1 |
| | Ballast Efficiency Factor | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| | Max Input Current | 4.00 A | 2.20 A | 2.00 A | 1.70 A | 1.00 A |
| | Starting Current | 2.87 A | 1.66 A | 1.44 A | 1.25 A | 0.72 A |
| | Open Circuit Voltage | 191V | 191V | 191V | 191V | 191V |
| | Drop Out Voltage | 96V | 166V | 192V | 222V | 384V |
| | Power Factor (≥90%) | 90 | 90 | 90 | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 | -22 / -30 |
| | Fuse Rating | 15 | 8 | 8 | 5 | 5 |
| | UL Bench Top Rise | C | C | C | C | C |

Safety and performance cUL Listed  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity
- Distributor replacement kit contains the appropriate core and coil with color coded leads, a properly rated capacitor and ignitor (if required) and all other components required for ballast replacement
- 5-tap ballast (120, 208, 240, 277, or 480 volt) featuring a 480-volt tap

| Dimensions | |
|---|-------------------|
| Wiring diagram HID W-(B) – see example on page 18-68 | |
| Case dimensions – Ref Drawing PC2 – see page 18-71 | |
| Length (L) | 5.3 in (133 mm) |
| Width (W) | 1.3 in (33 mm) |
| Mounting dimensions | |
| Mount Length (M) | 4.6 in (117 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.3 in (8 mm) |
| A | 2.0 |
| B | 4.0 |
| Weight | 15.00 lbs |
| Exit Type | Side |
| Nominal Length | 4.2 in (108 mm) |
| Frame Size (H x L) | 4.25 in x 4.75 in |
| Lead Lengths | |
| Orange and Red | |
| Violet and Black | |
| Black/Yellow | |
| Violet/White | |
| Yellow | |

HID Metal Halide F-Can

HID Electronic and Electromagnetic Ballasts

86576 – 11210277CTC000C

HID Metal Halide F-Can

1 – 70W M85 120/277 Enclosed and Potted F-Can

| General characteristics | |
|-------------------------------|---------------------|
| Ballast Type | Magnetic – F-Can |
| ANSI Lamp Codes | M85 |
| Voltage | |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 90C |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | 100°C (212°F) |
| Sound Rating | |
| Additional Info | Thermally Protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Standard Pack | 1 | 4 |

| Specifications by lamp and line voltage | | | |
|---|--------------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | | |
| M85 | | 120 | 277 |
| 70W Ceramic Metal Halide | System Wattage (W) | 90 | 90 |
| | Nominal Current | 0.78 A | 0.35 A |
| 70W Quartz Metal Halide | Ballast Factor | 1 | 1 |
| | Ballast Efficiency Factor | 0.78 | 0.78 |
| | Max Input Current | 2.00 A | 0.90 A |
| | Starting Current | 0.60 A | 0.27 A |
| | Open Circuit Voltage | 250V | 250V |
| | Drop Out Voltage | 66V | 222V |
| | Power Factor (≥)% | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 |
| | Fuse Rating | 6 | 3 |
| | UL Bench Top Rise | | |

Safety and performance  UL Listed

- For applications requiring quieter or cooler operation than provided by standard coil and coil ballasts
- Excellent sound-deadening and heat transfer qualities

| Dimensions | |
|--|-------------------|
| Wiring diagram HID H34 – see example on page 18-67 | |
| Case dimensions – Ref Drawing FCAN1 – see page 18-70 | |
| Length (L) | 11.75 in (299 mm) |
| Width (W) | 3.2 in (81 mm) |
| Height (H) | 2.6 in (67 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Width (X or F) | 2.0 in (51 mm) |
| Mount Slots (MS) | 0.2 in (6 mm) |
| Weight | 11.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 20 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead Lengths | |
| Black and White | |
| Red | |
| Black/Yellow | |

63047 – GEM70MVR-F

HID Metal Halide F-Can

1 – 70W M98 120/277 Enclosed and Potted F-Can

| General characteristics | |
|-------------------------------|---------------------|
| Ballast Type | Magnetic – F-Can |
| ANSI Lamp Codes | M98 |
| Voltage | 120/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 90C |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | |
| Sound Rating | B(25-30 decibels) |
| Additional Info | Thermally Protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Standard Pack | 1 | 4 |

| Specifications by lamp and line voltage | | | |
|---|--------------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | | |
| M98 | | 120 | 277 |
| 70W Ceramic Metal Halide | System Wattage (W) | 82 | 79 |
| | Nominal Current | 0.70 A | 0.30 A |
| 70W Quartz Metal Halide | Ballast Factor | 1 | 1 |
| | Ballast Efficiency Factor | 0.85 | 0.88 |
| | Max Input Current | 2.00 A | 0.90 A |
| | Starting Current | 0.60 A | 0.27 A |
| | Open Circuit Voltage | 250V | 250V |
| | Drop Out Voltage | 114V | 263V |
| | Power Factor (≥)% | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 |
| | Fuse Rating | 6 | 3 |
| | UL Bench Top Rise | | |

Safety and performance  UL Listed

- For applications requiring quieter or cooler operation than provided by standard coil and coil ballasts
- Excellent sound-deadening and heat transfer qualities

| Dimensions | |
|--|-------------------|
| Wiring diagram HID H34 – see example on page 18-67 | |
| Case dimensions – Ref Drawing FCAN1 – see page 18-70 | |
| Length (L) | 11.75 in (299 mm) |
| Width (W) | 3.2 in (81 mm) |
| Height (H) | 2.6 in (67 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Width (X or F) | 2.0 in (51 mm) |
| Mount Slots (MS) | 0.2 in (6 mm) |
| Weight | 11.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead Lengths | |
| Black and White | 12 in (305 mm) |
| Red | 12 in (305 mm) |
| Black/Yellow | 12 in (305 mm) |

HID Metal Halide F-Can

HID Electronic and Electromagnetic Ballasts

63048 – GEMH100MVR-F

HID Metal Halide F-Can

1 – 100W M90 120/277 Enclosed and Potted F-Can

| General characteristics | |
|-------------------------------|---------------------|
| Ballast Type | Magnetic – F-Can |
| ANSI Lamp Codes | M90 |
| Voltage | 120/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 90C |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | 100°C (212°F) |
| Sound Rating | B (25-30 decibels) |
| Additional Info | Thermally Protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Standard Pack | 1 | 4 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|----------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| | | 120 | 277 | |
| M90 | 100W Ceramic | System Wattage (W) | 122 | 125 |
| | Metal Halide | Nominal Current | 1.07 A | 0.47 A |
| 100W Quartz Metal Halide | | Ballast Factor | 1 | 1 |
| | | Ballast Efficiency Factor | 0.80 | 0.80 |
| | | Max Input Current | 1.07 A | 0.47 A |
| | | Starting Current | 1.10 A | 0.50 A |
| | | Open Circuit Voltage | 250V | 250V |
| | | Drop Out Voltage | 96V | 222V |
| | | Power Factor (>=)% | 90 | 90 |
| | | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 |
| | Fuse Rating | 8 | 4 | |
| | UL Bench Top Rise | | | |

Safety and performance  UL Listed

- For applications requiring quieter or cooler operation than provided by standard coil and coil ballasts
- Excellent sound-deadening and heat transfer qualities

| Dimensions | |
|--|-------------------|
| Wiring diagram HID H34 – see example on page 18-67 | |
| Case dimensions – Ref Drawing FCAN1 – see page 18-70 | |
| Length (L) | 11.75 in (299 mm) |
| Width (W) | 3.2 in (81 mm) |
| Height (H) | 2.6 in (67 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Width (X or F) | 2.0 in (51 mm) |
| Mount Slots (MS) | 0.2 in (6 mm) |
| Weight | 11.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | 10 ft |
| Remote Mounting Wire Gauge | 18 AWG |
| Lead Lengths | |
| Black and White | 12 in (305 mm) |
| Red | 12 in (305 mm) |
| Black/Yellow | 12 in (305 mm) |

63049 – GEMH150MVR-F

HID Metal Halide F-Can

1 – 150W MH 120/277 Enclosed and Potted F-Can

| General characteristics | |
|-------------------------------|---------------------|
| Ballast Type | Magnetic – F-Can |
| ANSI Lamp Codes | M102 |
| Voltage | 120/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 90C |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | 100°C (212°F) |
| Sound Rating | B (25-30 decibels) |
| Additional Info | Thermally Protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Standard Pack | 1 | 2 |

| Specifications by lamp and line voltage | | | | |
|---|--------------------------------|----------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | | | |
| | | 120 | 277 | |
| M102 | 175W Ceramic | System Wattage (W) | 184 | 186 |
| | Metal Halide | Nominal Current | 1.75 a | 0.75 A |
| 150W Quartz Metal Halide | | Ballast Factor | 1 | 1 |
| | | Ballast Efficiency Factor | 0.85 | 0.85 |
| | | Max Input Current | | |
| | | Starting Current | 1.5 | .7 |
| | | Open Circuit Voltage | 260V | 260V |
| | | Drop Out Voltage | 75V | 160V |
| | | Power Factor (>=)% | 90 | 90 |
| | | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 |
| | Fuse Rating | 5 | 3 | |
| | UL Bench Top Rise | | | |

Safety and performance  UL Listed  CSA

- For applications requiring quieter or cooler operation than provided by standard coil and coil ballasts
- Excellent sound-deadening and heat transfer qualities

| Dimensions | |
|--|------------------|
| Wiring diagram HID H34 – see example on page 18-67 | |
| Case dimensions – Ref Drawing FCAN2 – see page 18-70 | |
| Length (L) | 11.8 in (300 mm) |
| Width (W) | 3.2 in (81 mm) |
| Height (H) | 2.8 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.4 in (290 mm) |
| Mount Width (X or F) | 2.0 in (51 mm) |
| Mount Slots (MS) | 0.2 in (6 mm) |
| Weight | 13.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | |
| Remote Mounting Wire Gauge | |
| Lead Lengths | |
| Black and White | 12 in (305 mm) |
| Red | 12 in (305 mm) |
| Black/Yellow | 12 in (305 mm) |

HID Metal Halide F-Can

HID Electronic and Electromagnetic Ballasts

63050 – GEMH175MVA-F

HID Metal Halide F-Can

1 – 175W M57 120/277 Enclosed and Potted F-Can

| General characteristics | |
|-------------------------------|---------------------|
| Ballast Type | Magnetic – F-Can |
| ANSI Lamp Codes | M57, H39 |
| Voltage | 120/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 90C |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | 105°C (221°F) |
| Sound Rating | B (25-30 decibels) |
| Additional Info | Thermally Protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Standard Pack | 1 | 2 |

| Specifications by lamp and line voltage | | | |
|---|--------------------------------|--------------------|-----------|
| Lamp | Specifications by line voltage | | |
| M57, H39 | | 120 | 277 |
| | 175W Ceramic Metal Halide | System Wattage (W) | 202 |
| 150W Quartz Metal Halide | | 1.75 a | 0.75 A |
| | 175W Mercury | Nominal Current | 1 |
| 175W Mercury | | 0.85 | 0.85 |
| | | Ballast Factor | |
| | Ballast Efficiency Factor | | |
| | Max Input Current | | |
| | Starting Current | | |
| | Open Circuit Voltage | 300V | 300V |
| | Drop Out Voltage | 114V | 263V |
| | Power Factor (≥)% | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 |
| | Fuse Rating | 5 | 3 |
| | UL Bench Top Rise | | |

Safety and performance  UL Listed

63051 – GEMH250MVA-F

HID Metal Halide F-Can

1 – 250W M58 120/277 Enclosed and Potted F-Can

| General characteristics | |
|-------------------------------|---------------------|
| Ballast Type | Magnetic – F-Can |
| ANSI Lamp Codes | M58, H37 |
| Voltage | 120/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 90C |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | 100°C (212°F) |
| Sound Rating | C (31-36 decibels) |
| Additional Info | Thermally Protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Standard Pack | 1 | 2 |

| Specifications by lamp and line voltage | | | |
|---|--------------------------------|--------------------|-----------|
| Lamp | Specifications by line voltage | | |
| M58, H37 | | 120 | 277 |
| | 250W Quartz Metal Halide | System Wattage (W) | 319 |
| 175W Quartz Metal Halide | | 2.50 A | 1.10 A |
| | 250W Mercury | Nominal Current | 1 |
| | Ballast Factor | | |
| | Ballast Efficiency Factor | 0.85 | 0.85 |
| | Max Input Current | | |
| | Starting Current | | |
| | Open Circuit Voltage | 280V | 280V |
| | Drop Out Voltage | 96V | 222V |
| | Power Factor (≥)% | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 |
| | Fuse Rating | 8 | 4 |
| | UL Bench Top Rise | | |

Safety and performance  UL Listed

- For applications requiring quieter or cooler operation than provided by standard coil and coil ballasts
- Excellent sound-deadening and heat transfer qualities

| Dimensions | |
|--|------------------|
| Wiring diagram HID H34 – see example on page 18-67 | |
| Case dimensions – Ref Drawing FCAN2 – see page 18-70 | |
| Length (L) | 11.8 in (300 mm) |
| Width (W) | 3.2 in (81 mm) |
| Height (H) | 2.6 in (67 mm) |
| Mounting dimensions | |
| Mount Length (M) | 11.4 in (290 mm) |
| Mount Width (X or F) | 2.0 in (51 mm) |
| Mount Slots (MS) | 0.2 in (6 mm) |
| Weight | 13.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | |
| Remote Mounting Wire Gauge | |
| Lead Lengths | |
| Black and White | 12 in (305 mm) |
| Red | 12 in (305 mm) |
| Black/Yellow | 12 in (305 mm) |

- For applications requiring quieter or cooler operation than provided by standard coil and coil ballasts
- Excellent sound-deadening and heat transfer qualities

| Dimensions | |
|--|------------------|
| Wiring diagram HID H34 – see example on page 18-67 | |
| Case dimensions – Ref Drawing FCAN3 – see page 18-70 | |
| Length (L) | 16.6 in (422 mm) |
| Width (W) | 3.2 in (81 mm) |
| Height (H) | 2.7 in (70 mm) |
| Mounting dimensions | |
| Mount Length (M) | 16.1 in (410 mm) |
| Mount Width (X or F) | 2.0 in (51 mm) |
| Mount Slots (MS) | 0.2 in (6 mm) |
| Weight | 17.50 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | |
| Remote Mounting Wire Gauge | |
| Lead Lengths | |
| Black and White | 12 in (305 mm) |
| Red | 12 in (305 mm) |
| Black/Yellow | 12 in (305 mm) |

HID Metal Halide F-Can

HID Electronic and Electromagnetic Ballasts

63052 – GEMH400MVA-F

HID Metal Halide F-Can

1 – 400W M59 120/277 Enclosed and Potted F-Can

| General characteristics | |
|-------------------------------|---------------------|
| Ballast Type | Magnetic – F-Can |
| ANSI Lamp Codes | M59, H33 |
| Voltage | 120/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 90C |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | 100°C (212°F) |
| Sound Rating | C (31-36 decibels) |
| Additional Info | Thermally Protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Standard Pack | 1 | 2 |

| Specifications by lamp and line voltage | | | |
|---|--------------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | 120 | 277 |
| M59, H39 360W Quartz Metal Halide | System Wattage (W) | 445 | 446 |
| | Nominal Current | 3.90 A | 1.70 A |
| 400W Quartz Metal Halide | Ballast Factor | 1 | 1 |
| | Ballast Efficiency Factor | 0.88 | 0.88 |
| 400W Mercury | Max Input Current | 3.90 A | 1.70 A |
| | Starting Current | 2.50 A | 1.00 A |
| | Open Circuit Voltage | 300V | 300V |
| | Drop Out Voltage | 66V | 222V |
| | Power Factor (>=)% | 90 | 90 |
| | Min. Starting Temp (*F/*C) | -22 / -30 | -22 / -30 |
| | Fuse Rating | 10 | 5 |
| | UL Bench Top Rise | C | C |

Safety and performance  

80728 – 1111-247SCTC0001

HID Metal Halide F-Can

1 – 400W M59 120/277 Enclosed and Potted F-Can
(2 ballasts required to operate one 400W lamp)

| General characteristics | |
|-------------------------------|---------------------|
| Ballast Type | Magnetic – F-Can |
| ANSI Lamp Codes | M59, H33 |
| Voltage | 120/277 |
| Line Voltage Regulation (+/-) | 10% |
| Circuit Type | CWA |
| Insulation Class | 90C |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | 100°C (212°F) |
| Sound Rating | C (31-36 decibels) |
| Additional Info | Thermally Protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Standard Pack | 1 | 4 |

| Specifications by lamp and line voltage | | | |
|---|--------------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | 120 | 277 |
| M59, H33 360W Quartz Metal Halide | System Wattage (W) | 460 | 460 |
| | Nominal Current | 3.90 A | 1.70 A |
| 400W Quartz Metal Halide | Ballast Factor | 1 | 1 |
| | Ballast Efficiency Factor | 0.87 | 0.87 |
| 400W Mercury | Max Input Current | | |
| | Starting Current | | |
| | Open Circuit Voltage | 300V | 300V |
| | Drop Out Voltage | 96V | 222V |
| | Power Factor (>=)% | | |
| | Min. Starting Temp (*F/*C) | -22 / -30 | -22 / -30 |
| | Fuse Rating | 10 | 5 |
| | UL Bench Top Rise | | |

Safety and performance  

- For applications requiring quieter or cooler operation than provided by standard coil and coil ballasts
- Excellent sound-deadening and heat transfer qualities

| Dimensions | |
|--|------------------|
| Wiring diagram HID H34 – see example on page 18-67 | |
| Case dimensions – Ref Drawing FCAN4 – see page 18-70 | |
| Length (L) | 21.6 in (549 mm) |
| Width (W) | 3.2 in (81 mm) |
| Height (H) | 2.6 in (67 mm) |
| Mounting dimensions | |
| Mount Length (M) | 21.0 in (533 mm) |
| Mount Width (X or F) | 2.0 in (51 mm) |
| Mount Slots (MS) | 0.2 in (6 mm) |
| Weight | 23.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | |
| Remote Mounting Wire Gauge | |
| Lead Lengths | |
| Black and White | 12 in (305 mm) |
| Red | 12 in (305 mm) |
| Black/Yellow | 12 in (305 mm) |

- For applications requiring quieter or cooler operation than provided by standard coil and coil ballasts
- Excellent sound-deadening and heat transfer qualities

| Dimensions | |
|--|------------------|
| Wiring diagram HID H36 – see example on page 18-67 | |
| Case dimensions – Ref Drawing FCAN2 – see page 18-70 | |
| Length (L) | 14.3 in (364 mm) |
| Width (W) | 3.2 in (81 mm) |
| Height (H) | 2.6 in (67 mm) |
| Mounting dimensions | |
| Mount Length (M) | 13.8 in (349 mm) |
| Mount Width (X or F) | 2.0 in (51 mm) |
| Mount Slots (MS) | 0.2 in (6 mm) |
| Weight | 14.00 lbs |
| Exit Type | Side |
| Remote Mounting Distance to Lamp | |
| Remote Mounting Wire Gauge | |
| Lead Lengths | |
| Black and White | |
| Red | |
| Black/Yellow | |

HID - High Pressure Sodium F-Can

HID Electronic and Electromagnetic Ballasts

86596 – 12210237CTC0001

HID - High Pressure Sodium F-Can

1 – 70W S62 120/277 E & P F-Can built-in starter

| General characteristics | |
|-------------------------------|---------------------|
| Ballast Type | Magnetic – F-Can |
| ANSI Lamp Codes | S62 |
| Voltage | 120/277 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | HX-HPF |
| Insulation Class | 90C |
| Type of Capacitor | |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | 100°C (212°F) |
| Sound Rating | |
| Additional Info | Thermally protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Standard Pack | 1 | 4 |

| Specifications by lamp & line voltage | | | |
|---------------------------------------|--------------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | | |
| S62 | | 120 | 277 |
| 70W High Pressure Sodium | System Wattage (W) | 98 | 98 |
| | Nominal Current | 0.87 A | 0.39 A |
| | Ballast Factor | 1 | 1 |
| | Ballast Efficiency Factor | 0.71 | 0.71 |
| | Max Input Current | 0.87 A | 0.39 A |
| | Starting Current | 0.60 A | 0.27 A |
| | Open Circuit Voltage | 140V | 140V |
| | Drop Out Voltage | 96V | 222V |
| | Power Factor (≥)% | 90 | 90 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 |
| | Fuse Rating | 6 | 3 |
| | UL Bench Top Rise | | |

Safety and performance   UL Listed

- For applications requiring quieter or cooler operation than provided by standard coil & coil ballasts
- Excellent sound-deadening and heat transfer qualities

| Dimensions | |
|--|-------------------|
| Wiring diagram HID H34 – see example on page 18-67 | |
| Case dimensions – Ref Drawing FCAN1 – see page 18-70 | |
| Length (L) | 11.75 in (299 mm) |
| Width (W) | 3.188 in (81 mm) |
| Height (H) | 2.625 in (67 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | |
| Mount Length (M) | 11.1 in (283 mm) |
| Mount Width (X or F) | 2.0 in (51 mm) |
| Mount Slots (MS) | 0.2 in (6 mm) |
| A | |
| B | |
| Weight | 11.00 lbs |
| Exit Type | Side |
| Nominal Length | |
| Frame Size (H x L) | |
| Lead lengths | |
| White | |
| Black | |
| Black/Yellow | |
| Red | |

T8 Instant Start

T8 Programmed Start

T8/75 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

HID - High Pressure Sodium Reactor

HID Electronic and Electromagnetic Ballasts

86605 – 1233142U0001

HID - High Pressure Sodium Reactor

1 – 70W S62 120 Reactor-NPF

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S62 |
| Voltage | 120 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | R-HPF |
| Insulation Class | R-NPF |
| Type of Capacitor | 90C |
| Capacitance | |
| Voltage (MIN) | |
| Capacitor Temperature Rating | 100°C (212°F) |
| Sound Rating | |
| Additional Info | |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Standard Pack | 1 | 6 |

| Specifications by lamp & line voltage | | | |
|---------------------------------------|--------------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | | |
| S62 70W High Pressure Sodium | | 120 | 120 |
| | System Wattage (W) | 83 | 83 |
| | Nominal Current | 0.75 A | 1.60 A |
| | Ballast Factor | 1 | 1 |
| | Ballast Efficiency Factor | 0.84 | 0.84 |
| | Max Input Current | 1.30 A | 2.10 A |
| | Starting Current | 0.90 A | 2.10 A |
| | Open Circuit Voltage | 120V | 120V |
| | Drop Out Voltage | 96V | 96V |
| | Power Factor (≥)% | 90 | 80 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 |
| | Fuse Rating | 5 | 8 |
| | UL Bench Top Rise | A | A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity

| Dimensions | |
|--|------------------|
| Wiring diagram HID H1a, HID H1 – see example on page 18-67 | |
| Case dimensions – Ref Drawing 1 – see page 18-70 | |
| Length (L) | 4.00 in (102 mm) |
| Width (W) | 0.75 in (19 mm) |
| Height (H) | 0.1 in (2.36 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | 4.00 in (102 mm) |
| Mount Length (M) | 3.30 in (85 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 1.3 |
| B | 2.6 |
| Weight | 2.50 lbs |
| Exit Type | Side |
| Nominal Length | |
| Frame Size (H x L) | |
| Lead lengths | |
| Black | |
| Blue | |
| White | |

86606 – 1233154U0001

HID - High Pressure Sodium Reactor

1 – 150W S55 120 Reactor-NPF

| General characteristics | |
|-------------------------------|--------------------------|
| Ballast Type | Magnetic – Core and Coil |
| ANSI Lamp Codes | S55 |
| Voltage | 120 |
| Line Voltage Regulation (+/-) | 5% |
| Circuit Type | R-NPF |
| Insulation Class | 180C |
| Type of Capacitor | |
| Capacitance | 52 Mfd |
| Voltage (MIN) | 120 |
| Capacitor Temperature Rating | 100°C (212°F) |
| Sound Rating | |
| Additional Info | Thermally protected |

| Electrical characteristics | |
|----------------------------|-------|
| Supply Current Frequency | 60 Hz |

| Order information | | |
|-------------------|--------------------------|--------------------------------|
| Type | No. Items Per Sales Unit | No. Items Per Standard Package |
| Standard Pack | 1 | 6 |

| Specifications by lamp & line voltage | | | |
|--|--------------------------------|-----------|-----------|
| Lamp | Specifications by line voltage | | |
| S55 150W High Pressure Sodium 250W Quartz Metal Halide | | 120 | 120 |
| | System Wattage (W) | 171 | 171 |
| | Nominal Current | 1.50 A | 3.20 A |
| | Ballast Factor | 1 | 1 |
| | Ballast Efficiency Factor | 1.46 | 1.46 |
| | Max Input Current | 2.40 A | 4.40 A |
| | Starting Current | 2.20 A | 4.40 A |
| | Open Circuit Voltage | 120V | 120V |
| | Drop Out Voltage | 96V | 96V |
| | Power Factor (≥)% | 90 | 80 |
| | Min. Starting Temp (°F/°C) | -22 / -30 | -22 / -30 |
| | Fuse Rating | 8 | 15 |
| | UL Bench Top Rise | A | A |

Safety and performance  UL Listed

- Magnetic ballast construction ideal for a wide variety of lighting applications
- Precision-wound coils, ensuring even heat dissipation and the highest electrical integrity

| Dimensions | |
|---|---------------------|
| Wiring diagram HID H1 – see example on page 18-67 | |
| Case dimensions – Ref Drawing 1 – see page 18-70 | |
| Length (L) | 4.00 in (102 mm) |
| Width (W) | 0.75 in (19 mm) |
| Height (H) | 0.1 in (2.36 mm) |
| Mounting dimensions | |
| Bracket Length (BL) | 4.00 in (102 mm) |
| Mount Length (M) | 3.30 in (85 mm) |
| Mount Width (X or F) | |
| Mount Slots (MS) | 0.25 in (6 mm) |
| A | 2.0 |
| B | 3.0 |
| Weight | 3.50 lbs |
| Exit Type | Side |
| Nominal Length | |
| Frame Size (H x L) | 2.813 in x 3.939 in |
| Lead lengths | |
| Black | |
| Blue | |
| White | |

HID Accessories and Replacement Capacitors

HID Electronic and Electromagnetic Ballasts

HID Accessories

| HID Accessories | Prod Code | Description | Application | Units Per Carton |
|---|-----------|----------------------|---|------------------|
| Replacement Ignitors for Pulse Start Lamps (MH & HPS) | 75440 | MH100-3A MH350-1A | Ignitor for MH 30 50 70 100 Ignitor MH 150W, PS 175 250 320 350 400W | 20 |
| | 75441 | MH750-1B | Ignitor MH PS 750W | |
| | 86635 | HPS150-3A | Ignitor HPS 150 watts or less except 150w-S56 | 20 |
| | 86641 | HPS400-3A | Ignitor HPS 200-400 watts & 150w S56 | 10 |
| | 75439 | HPS1000-4B | Ignitor HPS 1000W, PS 1000W | |
| Other Accessories | 47621 | 000-8724 | HIDP Adjustable Mounting Bracket Hardware Kit | 100 |

Ignitor Specifications

| Ballast Product Code | 86635 | 86641 | 75439 | 75440 | 75441 |
|------------------------------|---|--------------------------------------|-----------------------------|--|-------------------------|
| Ignitor Model No. | HPS150-3A | HPS400-3A | HPS1000-4B | MH350-1A | MH750-1B |
| Description | Ignitor HPS 150 watts or less except 150w-S56 | Ignitor HPS 200-400 watts & 150w S56 | Ignitor HPS 1000W, PS 1000W | Ignitor MH 150W, PS 175 250 320 350 400W | Ignitor MH PS 750W |
| Minimum Starting Voltage (V) | 95 | 105 | 175 | 203 | 210 |
| Pulse Height (kV) | 2.5-4.0 | 2.5-4.0 | 3.0-5.0 | 3.0-4.0 | 3.0-4.0 |
| Pulse Width (µs) | > 1.0 | > 1.0 | > 4.0 | > 1.0 | > 1.5 |
| Pulse Frequency (Hz) | > 100 | > 100 | > 100 | > 100 | > 100 |
| Ballast To Lamp Distance | 10FT | 10FT | 5FT | 5FT | 5FT |
| Maximum Case Temperature | 105°C | 105°C | 105°C | 105°C | 105°C |
| Starting Current (rms) Min | 0.83 | 4.6 | 4.7 | 0.68 | 4.5 |
| Starting Current (rms) Max | 1.25 | 7.5 | 8 | 1.1 | 5.8 |
| Diameter | 1.40" | 1.40" | 1.70" | 1.40" | 2 5/32" x 15/16" (oval) |
| Height | 2.55" | 2.55" | 2.80" | 2.55" | 3.0" |

Replacement Capacitors

| Prod Code | Description | Application | Capacity (µF) | VAC | Diameter (inches) | Case Ht. (inches) | Units Per Carton |
|-----------|-------------------|--|---------------|-----|-------------------|-------------------|------------------|
| 75433 | 005-1184-MF | 10.0 MFD 400V 90C 2.4 MEG 1.50 oval 2.7 ht | | | | | 20 |
| 75668 | 005-2779-MF | 24.0 MFD 480V 90C 1.75 oval 3.9 ht | | | | | 20 |
| 75429 | GECAP-5/300V-D | Capacitor 5MFD 280V Dry | 5 | 300 | 1.2 | 1.97 | 20 |
| 75425 | GECAP-6/280V-D | Capacitor 6MFD 280V Dry | 6 | 300 | 1.2 | 2.76 | 20 |
| 75430 | GECAP-7/300V-D | Capacitor 7MFD 300V Dry | 7 | 300 | 1.2 | 2.76 | 20 |
| 75426 | GECAP-8/280V-D | Capacitor 8MFD 280V Dry | 8 | 300 | 1.2 | 2.76 | 20 |
| 75433 | GECAP-10/400V-O | Capacitor 10MFD 400V Oil | 10 | 400 | 1.75 | 2.38 | 20 |
| 75427 | GECAP-12/280V-D | Capacitor 12MFD 280V Dry | 12 | 300 | 1.2 | 3.15 | 20 |
| 75669 | GECAP-14/280V-D | Capacitor 14MFD 280V Dry | 14 | 300 | 1.4 | 2.76 | 20 |
| 75434 | GECAP-15/400V-O | Capacitor 15MFD 400V Oil | 15 | 400 | 1.75 | 2.88 | 20 |
| 75428 | GECAP-16/280V-D | Capacitor 16MFD 280V Dry | 16 | 300 | 1.4 | 3.15 | 20 |
| 75431 | GECAP-21/345V-O | Capacitor 21MFD 345V Oil | 21 | 345 | 1.75 | 3.13 | 20 |
| 75432 | GECAP-22.5/345V-O | Capacitor 22.5MFD 345V Oil | 22.5 | 345 | 1.75 | 3.75 | 20 |
| 75435 | GECAP-24/400V-O | Capacitor 24MFD 400V Oil | 24 | 400 | 1.75 | 3.75 | 20 |
| 75668 | GECAP-24/480V-O | Capacitor 24MFD 480V Oil | 24 | 480 | 2 | 3.91 | 20 |
| 75437 | GECAP-26/525V-O | Capacitor 26MFD 525V Oil | 26 | 525 | 2 | 3.91 | 20 |
| 75436 | GECAP-28/400V-O | Capacitor 28MFD 400V Oil | 28 | 400 | 1.75 | 3.88 | 20 |
| 75438 | GECAP-32/525V-O | Capacitor 32MFD 525V Oil | 32 | 525 | 2 | 3.91 | 20 |
| 75422 | GECAP-35/240V-D | Capacitor 35MFD 240V Dry | 35 | 240 | 1.5 | 3.75 | 20 |
| 75423 | GECAP-55/240V-D | Capacitor 55MFD 240V Dry | 55 | 240 | 1.5 | 3.75 | 20 |

HID Accessories and Replacement Capacitors

HID Electronic and Electromagnetic Ballasts

Capacitors and Ignitors

| Lamp Type | Use with ANSI Lamp Types | Watts | Prod Code | New GE Description | Description | Kit Capacitor | | | | Replacement Capacitor | | Actual electrical voltage of capacitor both ends | Original | Replacement Ignitor | | |
|--------------|--------------------------|-------|-----------|--------------------|--|---------------|----|---------|------------|-----------------------|-----------------|--|-----------------|---------------------|----------|--|
| | | | | | | Cap. | uF | Min Vac | UL Min Vac | Prod Code | Desc. | | | Prod Code | Ignitor | |
| Metal Halide | M110 | 50 | 86824 | GEM50MLTLC3D-5 | 1- 50w MH M110 or M148 Quad (120/208/240/277V) | 6MFD 280V | 6 | 280 | 280 | 75425 | GECAP-6/280V-D | | GECAP-6/280V-D | 75440 | MH350-1A | |
| | M148 | 50 | 86824 | GEM50MLTLC3D-5 | 1- 50w MH M110 or M148 Quad (120/208/240/277V) | 6MFD 280V | 6 | 280 | 280 | 75425 | GECAP-6/280V-D | | GECAP-6/280V-D | 75440 | MH350-1A | |
| | M143 | 70 | 86839 | GEM7048TLC3D-5 | 1- 70w MH M 98 or M143 480 | 8MFD 280V | 8 | 280 | 280 | 75426 | GECAP-8/280V-D | | GECAP-8/280V-D | 75440 | MH350-1A | |
| | M143 | 70 | 86847 | GEM70MLTLC3D-5 | 1- 70w MH M 98 or M143 Quad (120/208/240/277V) | 8MFD 280V | 8 | 280 | 280 | 75426 | GECAP-8/280V-D | | GECAP-8/280V-D | 75440 | MH350-1A | |
| | M143 | 70 | 78517 | GEM70TRILC3-5 | 1- 70w MH M 98 or M143 Quad (120/208/240/277V) | 8MFD 300V | 8 | 300 | 280 | 75426 | GECAP-8/280V-D | 277V | GECAP-8/280V-D | 75440 | MH350-1A | |
| | M85 | 70 | 86576 | 11210277CTC000C | 1- 70w M85 120/277 Enclosed & Potted | Internal | | | | | | | | | | |
| | M98 | 70 | 86578 | 11210506CTC000C | 1- 70w M98 120/277 Enclosed & Potted | Internal | | | | | | | | | | |
| | M98 | 70 | 86839 | GEM7048TLC3D-5 | 1- 70w MH M 98 or M143 480 | 8MFD 280V | 8 | 280 | 280 | 75426 | GECAP-8/280V-D | | GECAP-8/280V-D | 75440 | MH350-1A | |
| | M98 | 70 | 86847 | GEM70MLTLC3D-5 | 1- 70w MH M 98 or M143 Quad (120/208/240/277V) | 8MFD 280V | 8 | 280 | 280 | 75426 | GECAP-8/280V-D | | GECAP-8/280V-D | 75440 | MH350-1A | |
| | M140 | 100 | 86667 | GEM10048TLC3D-5 | 1- 100w MH M 90 or M140 480 | 12MFD 280V | 12 | 280 | 280 | 75427 | GECAP-12/280V-D | | GECAP-12/280V-D | 75440 | MH350-1A | |
| | M140 | 100 | 86675 | GEM100MLTLC3D-5 | 1- 100w MH M 90 or M140 Quad (120/208/240/277V) | 12MFD 280V | 12 | 280 | 280 | 75427 | GECAP-12/280V-D | | GECAP-12/280V-D | 75440 | MH350-1A | |
| | M140 | 100 | 78519 | GEM100TRILC3-5 | 1- 100w MH M 90 or M140 Quad (120/208/240/277V) | 12MFD 300V | 12 | 300 | 280 | 75427 | GECAP-12/280V-D | 277V | GECAP-12/280V-D | 75440 | MH350-1A | |
| | M90 | 100 | 86574 | 11210239CTC000I | 1- 100w M90 120/277 Enclosed & Potted | Internal | | | | | | | | | | |
| | M90 | 100 | 86667 | GEM10048TLC3D-5 | 1- 100w MH M 90 or M140 480 | 12MFD 280V | 12 | 280 | 280 | 75427 | GECAP-12/280V-D | | GECAP-12/280V-D | 75440 | MH350-1A | |
| | M90 | 100 | 86675 | GEM100MLTLC3D-5 | 1- 100w MH M 90 or M140 Quad (120/208/240/277V) | 12MFD 280V | 12 | 280 | 280 | 75427 | GECAP-12/280V-D | | GECAP-12/280V-D | 75440 | MH350-1A | |
| | M92 | 100 | 86667 | GEM10048TLC3D-5 | 1- 100w MH M 90 or M140 480 | 12MFD 280V | 12 | 280 | 280 | 75427 | GECAP-12/280V-D | | GECAP-12/280V-D | 75440 | MH350-1A | |
| | M92 | 100 | 86675 | GEM100MLTLC3D-5 | 1- 100w MH M 90 or M140 Quad (120/208/240/277V) | 12MFD 280V | 12 | 280 | 280 | 75427 | GECAP-12/280V-D | | GECAP-12/280V-D | 75440 | MH350-1A | |
| | M102 | 150 | 86711 | GEM15048TLC3D-5 | 1- 150w MH M102 or M142 480 | 16MFD 280V | 16 | 280 | 280 | 75428 | GECAP-16/280V-D | | GECAP-16/280V-D | 75440 | MH350-1A | |
| | M102 | 150 | 86718 | GEM150MLTLC3D-5 | 1- 150w MH M102 or M142 Quad (120/208/240/277V) | 16MFD 280V | 16 | 280 | 280 | 75428 | GECAP-16/280V-D | | GECAP-16/280V-D | 75440 | MH350-1A | |
| | M102 | 150 | 78520 | GEM150TRILC3-5 | 1- 150w MH M102 or M142 Quad (120/208/240/277V) | 16MFD 300V | 16 | 300 | 280 | 75428 | GECAP-16/280V-D | 277V | GECAP-16/280V-D | 75440 | MH350-1A | |
| | M107 | 150 | 86711 | GEM15048TLC3D-5 | 1- 150w MH M102 or M142 480 | 16MFD 280V | 16 | 280 | 280 | 75428 | GECAP-16/280V-D | | GECAP-16/280V-D | 75440 | MH350-1A | |
| | M107 | 150 | 86718 | GEM150MLTLC3D-5 | 1- 150w MH M102 or M142 Quad (120/208/240/277V) | 16MFD 280V | 16 | 280 | 280 | 75428 | GECAP-16/280V-D | | GECAP-16/280V-D | 75440 | MH350-1A | |
| | M142 | 150 | 86711 | GEM15048TLC3D-5 | 1- 150w MH M102 or M142 480 | 16MFD 280V | 16 | 280 | 280 | 75428 | GECAP-16/280V-D | | GECAP-16/280V-D | 75440 | MH350-1A | |
| | M142 | 150 | 86718 | GEM150MLTLC3D-5 | 1- 150w MH M102 or M142 Quad (120/208/240/277V) | 16MFD 280V | 16 | 280 | 280 | 75428 | GECAP-16/280V-D | | GECAP-16/280V-D | 75440 | MH350-1A | |
| | M57 | 175 | 86563 | 1110245SCTC000I | 1- 175w M57 120/277 Enclosed & Potted | Internal | | | | | | | | | | |
| | M57 | 175 | 87210 | GEM175ML5AC3-5 | 1- 175w MH M 57 or H 39 5-Tap (120/208/240/277/480V) | 10MFD 400V | 10 | 400 | 400 | 75433 | GECAP-10/400V-O | | 005-1184-MF | | N/A | |
| | M57 | 175 | 86741 | GEM175MLTAC3-5 | 1- 175w MH M 57 or H 39 Quad (120/208/240/277V) | 10MFD 400V | 10 | 400 | 400 | 75433 | GECAP-10/400V-O | | 005-1184-MF | | N/A | |
| | M57 | 175 | 78521 | GEM175TRIAC3-5 | 1- 175w MH M 57 or H 39 Quad (120/208/240/277V) | 12MFD 450V | 12 | 450 | 400 | 75433 | | 370V | 005-1184-MF | | N/A | |
| | M58 | 250 | 86564 | 1110246CTC000C | 1- 250w M58 120/277 Enclosed & Potted | Internal | | | | | | | | | | |

HID Accessories and Replacement Capacitors

HID Electronic and Electromagnetic Ballasts

Ballasts

| Lamp Type | Use with ANSI Lamp Types | Watts | Prod Code | New GE Description | Description | Kit Capacitor | | | Replacement Capacitor | | | Replacement Ignitor | | | |
|--------------|--------------------------|-------|----------------|---|---|--|------------|---------|-----------------------|-----------|-----------------|--|-------------|-----------------|----------|
| | | | | | | Cap. | uF | Min Vac | UL Min Vac | Prod Code | Desc. | Actual electrical voltage of capacitor both ends | Original | Prod Code | Ignitor |
| Metal Halide | M58 | 250 | 87211 | GEM250ML5AC3-5 | 1- 250w MH M 58 or H 37 5-Tap (120/208/240/277/480V) | 15MFD 400V | 15 | 400 | 400 | 75434 | GECAP-15/400V-O | | 005-1185-MF | N/A | |
| | M58 | 250 | 87212 | GEM250ML5AC4-5 | 1- 250w MH M 58 or H 37 5-Tap (120/208/240/277/480V) | 15MFD 400V | 15 | 400 | 400 | 75434 | GECAP-15/400V-O | | 005-1185-MF | N/A | |
| | M58 | 250 | 86765 | GEM250MLTAC3-5 | 1- 250w MH M 58 or H 37 Quad (120/208/240/277V) | 15MFD 400V | 15 | 400 | 400 | 75434 | GECAP-15/400V-O | | 005-1185-MF | N/A | |
| | M58 | 250 | 78522 | GEM250TRIAC4-5 | 1- 250w MH M 58 or H 37 Quad (120/208/240/277V) | 15MFD 450V | 15 | 450 | 400 | 75434 | GECAP-15/400V-O | 370V | 005-1185-MF | N/A | |
| | M59 | 400 | 42670 | 1110-247SC-TC | 1- 400w M59 120/277 Enclosed & Potted F-can | Internal | | | | | | | | | |
| | M59 | 400 | 80728 | 1111-247SCTC0001 | 1- 400w M59 120/277 Enclosed & Potted | Internal | | | | | | | | | |
| | M59 | 400 | 86803 | GEM40048TAC4-5 | 1- 400w MH M 59 or H 33 480 | 24MFD 400V | 24 | 400 | 400 | 75435 | GECAP-24/400V-O | | 005-2779-MF | N/A | |
| | M59 | 400 | 72300 | GEM400ML5AA4-5 | 1- 400w MH M59 or H33 5-Tap (120/208/240/277/480V) AI C&C | 24MFD 400V | 24 | 400 | 360 | 75435 | GECAP-24/400V-O | | 005-2779-MF | N/A | |
| | M59 | 400 | 72149 | GEM400MLTAA4-5 | 1- 400w MH M 59 or H 33 Quad (120/208/240/277V) AI C&C | 24MFD 400V | 24 | 400 | 400 | 75435 | GECAP-24/400V-O | | 005-2779-MF | N/A | |
| | M59 | 400 | 78523 | GEM400TRIAC4-5 | 1- 400w MH M 59 or H 33 Quad (120/208/240/277V) AI C&C | 24MFD 450V | 24 | 450 | 400 | 75668 | GECAP-24/480V-O | 370V | 005-2779-MF | N/A | |
| | M47 | 1000 | 86650 | GEM100048TAC5-5 | 1- 1000w MH M 47 or H 36 480 | 24MFD 480V | 24 | 480 | 480 | 75668 | GECAP-24/480V-O | | 005-2779-MF | N/A | |
| | M47 | 1000 | 87213 | GEM1000ML5AA5-5 | 1- 1000w MH M 47 or H 36 5-Tap (120/208/240/277/480V) | 24MFD 480V | 24 | 480 | 480 | 75668 | GECAP-24/480V-O | | 005-2779-MF | N/A | |
| | M47 | 1000 | 86655 | GEM1000MLTAA5-5 | 1- 1000w MH M 47 or H 36 Quad (120/208/240/277V) | 24MFD 480V | 24 | 480 | 480 | 75668 | GECAP-24/480V-O | | 005-2779-MF | N/A | |
| | M47 | 1000 | 78524 | GEM1000TRIAC5-5 | 1- 1000w MH M 47 or H 36 Quad (120/208/240/277V) | 24MFD 540V | 24 | 540 | 480 | 75668 | GECAP-24/480V-O | 450V | 005-2779-MF | N/A | |
| | Pulse Start | M48 | 1500 | 86693 | GEM150048TAC5-5 | 1- 1500w MH M 48 480 | 32MFD 525V | 32 | 525 | 525 | 75438 | GECAP-32/525V-O | | GECAP-32/525V-O | N/A |
| | | M48 | 1500 | 86698 | GEM1500MLTAC5-5 | 1- 1500w MH M 48 Quad (120/208/240/277V) | 32MFD 525V | 32 | 525 | 525 | 75438 | GECAP-32/525V-O | | GECAP-32/525V-O | N/A |
| M156 | | 20 | 87490 | GEMH20-MLF-120 | 1- 20W M156 120V Electronic HID | Internal | | | | | | | | Internal | |
| M130 | | 39 | 87501 | GEMH39-MSF-120 | 1- 39W M130 120V Electronic HID | Internal | | | | | | | | | Internal |
| C148 | | 50 | 87516 | GEMH50-MSF-120 | 1- 50W M110 M/C148 120V Electronic HID | Internal | | | | | | | | | Internal |
| M110 | | 50 | 87516 | GEMH50-MSF-120 | 1- 50W M110 M/C148 120V Electronic HID | Internal | | | | | | | | | Internal |
| M148 | | 50 | 87516 | GEMH50-MSF-120 | 1- 50W M110 M/C148 120V Electronic HID | Internal | | | | | | | | | Internal |
| C143 | | 70 | 87531 | GEMH70-MSF-120 | 1- 70W M98 M/C143 120V Electronic HID | Internal | | | | | | | | | Internal |
| C143 | | 70 | 87546 | GEMH70-SLJ-MV | 1- 70W M98 M/C143 120V-277V Electronic HID | Internal | | | | | | | | | Internal |
| M139 | | 70 | 87531 | GEMH70-MSF-120 | 1- 70W M98 M/C143 120V Electronic HID | Internal | | | | | | | | | Internal |
| M139 | | 70 | 87531 | GEMH70-MSF-120 | 1- 70W M98 M/C143 120V Electronic HID | Internal | | | | | | | | | Internal |
| M143 | | 70 | 87531 | GEMH70-MSF-120 | 1- 70W M98 M/C143 120V Electronic HID | Internal | | | | | | | | | Internal |
| M143 | | 70 | 87546 | GEMH70-SLJ-MV | 1- 70W M98 M/C143 120V-277V Electronic HID | Internal | | | | | | | | | Internal |
| M98 | | 70 | 87531 | GEMH70-MSF-120 | 1- 70W M98 M/C143 120V Electronic HID | Internal | | | | | | | | | Internal |
| M98 | | 70 | 87546 | GEMH70-SLJ-MV | 1- 70W M98 M/C143 120V-277V Electronic HID | Internal | | | | | | | | | Internal |
| C140 | | 100 | 87561 | GEMH100-SLJ-MV | 1- 100W M90 M/C140 120V-277V Electronic HID | Internal | | | | | | | | | Internal |
| M140 | 100 | 87561 | GEMH100-SLJ-MV | 1- 100W M90 M/C140 120V-277V Electronic HID | Internal | | | | | | | | | Internal | |

T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

HID Accessories and Replacement Capacitors

HID Electronic and Electromagnetic Ballasts

| Lamp Type | Use with ANSI Lamp Types | Watts | Prod Code | New GE Description | Description | Kit Capacitor | | | | Replacement Capacitor | | | Replacement Ignitor | | |
|-------------|--------------------------|-------|-----------|--------------------|---|---------------|----|---------|------------|-----------------------|-----------------|--|---------------------|-----------|----------|
| | | | | | | Cap. | uF | Min Vac | UL Min Vac | Prod Code | Desc. | Actual electrical voltage of capacitor both ends | Original | Prod Code | Ignitor |
| Pulse Start | M90 | 100 | 87561 | GEMH100-SLJ-MV | 1 - 100W M90 M/C140 120V-277V Electronic HID | Internal | | | | | | | | | Internal |
| | C142 | 150 | 87576 | GEMH150-SLJ-MV | 1 - 150W M102 M/C142 120V-277V Electronic HID | Internal | | | | | | | | | Internal |
| | M102 | 150 | 87576 | GEMH150-SLJ-MV | 1 - 150W M102 M/C142 120V-277V Electronic HID | Internal | | | | | | | | | Internal |
| | M142 | 150 | 87576 | GEMH150-SLJ-MV | 1 - 150W M102 M/C142 120V-277V Electronic HID | Internal | | | | | | | | | Internal |
| | M137 | 175 | 86876 | GEP17548TAC3-5 | 1- 175w PS M137 or M152 480 | 10MFD 400V | 10 | 400 | 400 | 75433 | GECAP-10/400V-O | | 005-1184-MF | 75440 | MH350-1A |
| | M137 | 175 | 86885 | GEP175MLTAC3-5 | 1- 175w PS M137 or M152 Quad (120/208/240/277V) | 10MFD 400V | 10 | 400 | 400 | 75433 | GECAP-10/400V-O | | 005-1184-MF | 75440 | MH350-1A |
| | M152 | 175 | 86876 | GEP17548TAC3-5 | 1- 175w PS M137 or M152 480 | 10MFD 400V | 10 | 400 | 400 | 75433 | GECAP-10/400V-O | | 005-1184-MF | 75440 | MH350-1A |
| | M152 | 175 | 86885 | GEP175MLTAC3-5 | 1- 175w PS M137 or M152 Quad (120/208/240/277V) | 10MFD 400V | 10 | 400 | 400 | 75433 | GECAP-10/400V-O | | 005-1184-MF | 75440 | MH350-1A |
| | M152 | 175 | 78525 | GEP175TRIAC3-5 | 1- 175w PS M137 or M152 Quad (120/208/240/277V) | 12MFD 450V | 12 | 450 | 400 | 75433 | GECAP-10/400V-O | 330V | 005-1184-MF | 75440 | MH350-1A |
| | M136 | 250 | 78526 | GEP200TRIAC3-5 | 1- 250w PS M138 or M153 Quad (120/208/240/277V) | 16MFD 450V | 16 | 450 | 400 | | | | 005-1185-MF | 75440 | MH350-1A |
| | CMH250 | 250 | 29377 | GE-MH-250-400-MA | 1 - 250 to 400W UltraMax HID Electronic 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | CMH250 | 250 | 89646 | GEMH250-400MV50 | 1 - 250 to 400W UltraMax HID Dimming 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M138 | 250 | 86926 | GEP25048TAC4-5 | 1- 250w PS M138 or M153 480 | 15MFD 400V | 15 | 400 | 400 | 75434 | GECAP-15/400V-O | | 005-1185-MF | 75440 | MH350-1A |
| | M138 | 250 | 86935 | GEP250MLTAC4-5 | 1- 250w PS M138 or M153 Quad (120/208/240/277V) | 15MFD 400V | 15 | 400 | 400 | 75434 | GECAP-15/400V-O | | 005-1185-MF | 75440 | MH350-1A |
| | M138 | 250 | 78527 | GEP250TRIAC4-5 | 1- 250w PS M138 or M153 Quad (120/208/240/277V) | 15MFD 450V | 15 | 450 | 400 | 75434 | GECAP-15/400V-O | 370V | 005-1185-MF | 75440 | MH350-1A |
| | M153 | 250 | 29377 | GE-MH-250-400-MA | 1 - 250 to 400W UltraMax HID Electronic 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M153 | 250 | 89646 | GEMH250-400MV50 | 1 - 250 to 400W UltraMax HID Dimming 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M153 | 250 | 86926 | GEP25048TAC4-5 | 1- 250w PS M138 or M153 480 | 15MFD 400V | 15 | 400 | 400 | 75434 | GECAP-15/400V-O | | 005-1185-MF | | |
| | M153 | 250 | 86935 | GEP250MLTAC4-5 | 1- 250w PS M138 or M153 Quad (120/208/240/277V) | 15MFD 400V | 15 | 400 | 400 | 75434 | GECAP-15/400V-O | | 005-1185-MF | 75440 | MH350-1A |
| | CMH320 | 320 | 29377 | GE-MH-250-400-MA | 1 - 250 to 400W UltraMax HID Electronic 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | CMH320 | 320 | 89646 | GEMH250-400MV50 | 1 - 250 to 400W UltraMax HID Dimming 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M132 | 320 | 29377 | GE-MH-250-400-MA | 1 - 250 to 400W UltraMax HID Electronic 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M132 | 320 | 89646 | GEMH250-400MV50 | 1 - 250 to 400W UltraMax HID Dimming 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M132 | 320 | 86952 | GEP32048TAC4-5 | 1- 320w PS M132 or M154 480 | 21MFD 345V | 21 | 345 | 345 | 75431 | GECAP-21/345V-O | | GECAP-21/345V-O | 75440 | MH350-1A |
| | M132 | 320 | 86959 | GEP320MLTAC4-5 | 1- 320w PS M132 or M154 Quad (120/208/240/277V) | 21MFD 345V | 21 | 345 | 345 | 75431 | GECAP-21/345V-O | | GECAP-21/345V-O | 75440 | MH350-1A |
| | M132 | 320 | 78528 | GEP320TRIAC4-5 | 1- 320w PS M132 or M154 TRI-Voltage 120 277 347 | 21MFD 450V | 21 | 450 | | 75431 | GECAP-21/345V-O | 360V | | 75440 | MH350-1A |
| | M154 | 320 | 29377 | GE-MH-250-400-MA | 1 - 250 to 400W UltraMax HID Electronic 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M154 | 320 | 89646 | GEMH250-400MV50 | 1 - 250 to 400W UltraMax HID Dimming 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M154 | 320 | 86952 | GEP32048TAC4-5 | 1- 320w PS M132 or M154 480 | 21MFD 345V | 21 | 345 | 345 | 75431 | GECAP-21/345V-O | | GECAP-21/345V-O | 75440 | MH350-1A |
| | M154 | 320 | 86959 | GEP320MLTAC4-5 | 1- 320w PS M132 or M154 Quad (120/208/240/277V) | 21MFD 345V | 21 | 345 | 345 | 75431 | GECAP-21/345V-O | | GECAP-21/345V-O | 75440 | MH350-1A |

HID Accessories and Replacement Capacitors

HID Electronic and Electromagnetic Ballasts

| Lamp Type | Use with ANSI Lamp Types | Watts | Prod Code | New GE Description | Description | Kit Capacitor | | | | Replacement Capacitor | | | Replacement Ignitor | | |
|----------------------|--------------------------|-------|-----------------|--|---|---------------|------|---------|------------|-----------------------|------------------|--|---------------------|------------|-----------|
| | | | | | | Cap. | uF | Min Vac | UL Min Vac | Prod Code | Desc. | Actual electrical voltage of capacitor both ends | Original | Prod Code | Ignitor |
| High Pressure Sodium | M154 | 320 | 86968 | GEP320TRIAC4-5 | 1- 320w PS M132 or M154 TRI-Voltage 120 277 347 | 21MFD 345V | 21 | 345 | | 75431 | GECAP-21/345V-O | | GECAP-21/345V-O | 75440 | MH350-1A |
| | CMH350 | 350 | 29377 | GE-MH-250-400-MA | 1 - 250 to 400W UltraMax HID Electronic 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | CMH350 | 350 | 89646 | GEMH250-400MV50 | 1 - 250 to 400W UltraMax HID Dimming 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M131 | 350 | 29377 | GE-MH-250-400-MA | 1 - 250 to 400W UltraMax HID Electronic 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M131 | 350 | 89646 | GEMH250-400MV50 | 1 - 250 to 400W UltraMax HID Dimming 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M131 | 350 | 42692 | GEP350277RCE-5 | 1- 350w PS M131 277 Reactor | 22.5MFD 345V | 22.5 | 345 | | 75432 | GECAP-225/345V-O | | GECAP-22.5/345V-O | 75440 | MH350-1A |
| | M131 | 350 | 86984 | GEP350MLTAC4-5 | 1- 350w PS M131 Quad (120/208/240/277V) | 22.5MFD 345V | 22.5 | 345 | 345 | 75432 | GECAP-225/345V-O | | GECAP-22.5/345V-O | 75440 | MH350-1A |
| | M131 | 350 | 78529 | GEP350TRIAC4-5 | 1- 350w PS M131 Quad (120/208/240/277V) | 22MFD 450V | 22 | 450 | 345 | 75432 | | 360V | GECAP-22.5/345V-O | 75440 | MH350-1A |
| | CMH400 | 400 | 29377 | GE-MH-250-400-MA | 1 - 250 to 400W UltraMax HID Electronic 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | CMH400 | 400 | 89646 | GEMH250-400MV50 | 1 - 250 to 400W UltraMax HID Dimming 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M135 | 400 | 29377 | GE-MH-250-400-MA | 1 - 250 to 400W UltraMax HID Electronic 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M135 | 400 | 89646 | GEMH250-400MV50 | 1 - 250 to 400W UltraMax HID Dimming 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M135 | 400 | 86999 | GEP40048TAC4-5 | 1- 400w PS M135 or M155 480 | 24MFD 400V | 24 | 400 | 400 | 75435 | GECAP-24/400V-O | | 005-2779-MF | 75440 | MH350-1A |
| | M135 | 400 | 87008 | GEP400MLTAC4-5 | 1- 400w PS M135 or M155 Quad (120/208/240/277V) | 24MFD 400V | 24 | 400 | 400 | 75435 | GECAP-24/400V-O | | 005-2779-MF | 75440 | MH350-1A |
| | M135 | 400 | 78530 | GEP400TRIAC4-5 | 1- 400w PS M135 or M155 Quad (120/208/240/277V) | 26MFD 450V | 26 | 450 | 400 | 75437 | GECAP-26/525V-O | 360V | 005-2779-MF | 75440 | MH350-1A |
| | M155 | 400 | 29377 | GE-MH-250-400-MA | 1 - 250 to 400W UltraMax HID Electronic 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M155 | 400 | 89646 | GEMH250-400MV50 | 1 - 250 to 400W UltraMax HID Dimming 208-277 50-60Hz | Internal | | | | | | | | | Internal |
| | M155 | 400 | 87008 | GEP400MLTAC4-5 | 1- 400w PS M135 or M155 Quad (120/208/240/277V) | 24MFD 400V | 24 | 400 | 400 | 75435 | GECAP-24/400V-O | | 005-2779-MF | 75440 | MH350-1A |
| | M155 | 400 | 86999 | GEP40048TAC4-5 | 1- 400w PS M135 or M155 480 | 24MFD 400V | 24 | 400 | 400 | 75435 | GECAP-24/400V-O | | 005-2779-MF | 75440 | MH350-1A |
| | M149 | 750 | 46936 | GEP75048TAC5-5 | 1-750w PS M149 480 | 28MFD 400V | 28 | 400 | 400 | 75436 | GECAP-28/400V-O | | GECAP-28/400V-O | 75441 | MH750-1B |
| M149 | 750 | 46934 | GEP750MLTAC5-5 | 1-750w PS M149 Quad (120/208/240/277V) | 28MFD 400V | 28 | 400 | 400 | 75436 | GECAP-28/400V-O | | GECAP-28/400V-O | 75441 | MH750-1B | |
| M149 | 750 | 78531 | GEP750TRIAC5-5 | 1-750w PS M149 Quad (120/208/240/277V) | 28MFD 450V | 28 | 450 | 400 | 75436 | GECAP-28/400V-O | 405V | GECAP-28/400V-O | 75441 | MH750-1B | |
| M141 | 1000 | 72282 | GEP1000ML5AC5-5 | 1-1000w PS M141 5-Tap (120/208/240/277/480V) | 24MFD 480V | 24 | 480 | 480 | 75668 | GECAP-24/480V-O | | 005-2779-MF | 75439 | HPS1000-4B | |
| M141 | 1000 | 72281 | GEP1000MLTAC5-5 | 1-1000w PS M141 Quad (120/208/240/277V) | 24MFD 480V | 24 | 480 | 480 | 75668 | GECAP-24/480V-O | | 005-2779-MF | 75439 | HPS1000-4B | |
| M141 | 1000 | 78532 | GEP1000TRIAC5-5 | 1-1000w PS M141 Quad (120/208/240/277V) | 25MFD 450V | 25 | 450 | 480 | 75668 | | 430V | 005-2779-MF | 75439 | HPS1000-4B | |
| High Pressure Sodium | S68 | 50 | 87152 | GES50MLTLC3D-5 | 1- 50w HPS S68 Quad (120/208/240/277V) | 5MFD 280V | 5 | 300 | 300 | 75429 | GECAP-5/300V-D | | GECAP-5/300V-D | 86635 | HPS150-3A |
| | S62 | 70 | 86596 | 12210237CTC0001 | 1- 70w S62 120/277 E & P F-can built-in starter | Internal | | | | | | | | | Internal |
| | S62 | 70 | 86605 | 1233142U0001 | 1- 70w S62 120 Reactor-NPF | Internal | | | | | | | | | Internal |
| | S68 | 70 | 78533 | GES50TRLIC3-5 | 1- 70w HPS S62 Quad (120/208/240/277V) | 5MFD 300V | 5 | 300 | 300 | 75430 | | 277V | GECAP-7/300V-D | 86635 | HPS150-3A |
| | S62 | 70 | 86456 | GES7048TLC3D-5 | 1- 70w HPS S62 480V | 7MFD 300V | 7 | 300 | 300 | 75430 | GECAP-7/300V-D | | GECAP-7/300V-D | 86635 | HPS150-3A |

HID Accessories and Replacement Capacitors

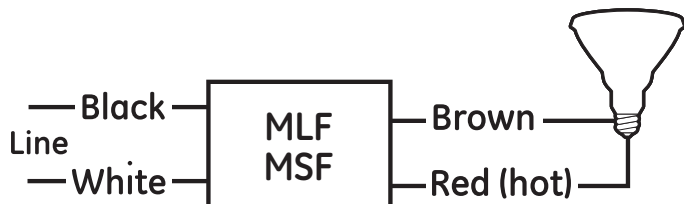
HID Electronic and Electromagnetic Ballasts

| Lamp Type | Use with ANSI Lamp Types | Watts | Prod Code | New GE Description | Description | Kit Capacitor | | | | Replacement Capacitor | | Actual electrical voltage of capacitor both ends | Original | Replacement Ignitor | | |
|----------------------|--------------------------|-------|-----------|--------------------|---|---------------|----|---------|------------|-----------------------|-----------------|--|-----------------|---------------------|------------|----------|
| | | | | | | Cap. | uF | Min Vac | UL Min Vac | Prod Code | Desc. | | | Prod Code | Ignitor | |
| High Pressure Sodium | S62 | 70 | 86587 | GES70MLTLC3D-5 | 1- 70w HPS S62 Quad (120/208/240/277V) | 7MFD 300V | 7 | 300 | 300 | 75430 | GECAP-7/300V-D | | GECAP-7/300V-D | 86635 | HPS150-3A | |
| | S62 | 70 | 78534 | GES70TRILC3-5 | 1- 70w HPS S62 Quad (120/208/240/277V) | 7MFD 300V | 7 | 300 | 300 | 75430 | GECAP-7/300V-D | | GECAP-7/300V-D | 86635 | HPS150-3A | |
| | S54 | 100 | 87068 | GES10048TLC3D-5 | 1- 100w HPS S54 480V | 10MFD 280V | 10 | 280 | 280 | 75433 | GECAP-10/400V-O | | 005-1184-MF | 86635 | HPS150-3A | |
| | S54 | 100 | 87074 | GES100MLTLC3D-5 | 1- 100w HPS S54 Quad (120/208/240/277V) | 10MFD 280V | 10 | 280 | 280 | 75433 | GECAP-10/400V-O | | 005-1184-MF | 86635 | HPS150-3A | |
| | S54 | 100 | 78535 | GES100TRILC3-5/2 | 1- 100w HPS S54 Quad (120/208/240/277V) | 10MFD 300V | 10 | 300 | 280 | 75433 | GECAP-10/400V-O | 277V | 005-1184-MF | 86635 | HPS150-3A | |
| | S55 | 150 | 86606 | 1233154U000I | 1- 150w S55 120 Reactor-NPF | Internal | | | | | | | | | | Internal |
| | S55 | 150 | 87087 | GES15048TLC3D-5 | 1- 150w HPS S55 480V | 14MFD 280V | 14 | 280 | 280 | 75669 | GECAP-14/280V-D | | GECAP-14/280V-D | 86635 | HPS150-3A | |
| | S55 | 150 | 87094 | GES150MLTLC3D-5 | 1- 150w HPS S55 Quad (120/208/240/277V) | 14MFD 280V | 14 | 280 | 280 | 75669 | GECAP-14/280V-D | | GECAP-14/280V-D | 86635 | HPS150-3A | |
| | S55 | 150 | 78536 | GES150TRILC3-5 | 1- 150w HPS S55 Quad (120/208/240/277V) | 14MFD 300V | 14 | 300 | 280 | 75669 | GECAP-14/280V-D | 277V | GECAP-14/280V-D | 86635 | HPS150-3A | |
| | S50 | 250 | 87214 | GES250MLSAC4-5 | 1- 250w HPS S50 5-Tap (120/208/240/277/480V) | 35MFD 240V | 35 | 240 | 240 | 75422 | GECAP-35/240V-O | | GECAP-35/240V-O | 86641 | HPS400-3A | |
| | S50 | 250 | 87121 | GES250MLTAC4-5 | 1- 250w HPS S50 Quad (120/208/240/277V) | 35MFD 240V | 35 | 240 | 240 | 75422 | GECAP-35/240V-O | | GECAP-35/240V-O | 86641 | HPS400-3A | |
| | S50 | 250 | 78537 | GES250TRIAC4-5 | 1- 250w HPS S50 Quad (120/208/240/277V) | 33MFD 300V | 33 | 300 | 240 | 75422 | | 240 | GECAP-35/240V-O | 86641 | HPS400-3A | |
| | S51 | 400 | 87198 | GES40048TAC4-5 | 1- 400w HPS S51 480V in smaller frame | 55MFD 240V | 55 | 240 | 240 | 75423 | GECAP-55/240V-O | | GECAP-55/240V-O | 86641 | HPS400-3A | |
| | S51 | 400 | 87215 | GES400MLSAC4-5 | 1- 400w HPS S51 5-Tap (120/208/240/277/480V) | 55MFD 240V | 55 | 240 | 240 | 75423 | GECAP-55/240V-O | | GECAP-55/240V-O | 86641 | HPS400-3A | |
| | S51 | 400 | 87164 | GES400MLTAC4-5 | 1- 400w HPS S51 Quad (120/208/240/277V) | 55MFD 240V | 55 | 240 | 240 | 75423 | GECAP-55/240V-O | | GECAP-55/240V-O | 86641 | HPS400-3A | |
| | S51 | 400 | 78539 | GES400TRIAC4-5 | 1- 400w HPS S51 Quad (120/208/240/277V) | 55MFD 300V | 55 | 300 | 240 | 75423 | GECAP-55/240V-O | 240 | GECAP-55/240V-O | 86641 | HPS400-3A | |
| | S52 | 1000 | 87048 | GES100048TAC5-5 | 1- 1000w HPS S52 480V | 26MFD 525V | 26 | 525 | 525 | 75437 | GECAP-26/525V-O | | GECAP-26/525V-O | 75439 | HPS1000-4B | |
| | S52 | 1000 | 87218 | GES1000MLSAC5-5 | 1- 1000w HPS S52 5-Tap (120/208/240/277/480V) | 26MFD 525V | 26 | 525 | 525 | 75437 | GECAP-26/525V-O | | GECAP-26/525V-O | 75439 | HPS1000-4B | |
| | S52 | 1000 | 87056 | GES1000MLTAC5-5 | 1- 1000w HPS S52 Quad (120/208/240/277V) | 26MFD 525V | 26 | 525 | 525 | 75437 | GECAP-26/525V-O | | GECAP-26/525V-O | 75439 | HPS1000-4B | |
| | S52 | 1000 | 78540 | GES1000TRIAC5-5 | 1- 1000w HPS S52 Quad (120/208/240/277V) | 26MFD 540V | 26 | 540 | 525 | 75437 | GECAP-26/525V-O | 520 | GECAP-26/525V-O | 75439 | HPS1000-4B | |
| Mercury | H39 | 175 | 87210 | GEM175MLSAC3-5 | 1- 175w MH M 57 or H 39 5-Tap (120/208/240/277/480V) | 10MFD 400V | 10 | 400 | 400 | 75433 | GECAP-10/400V-O | | 005-1184-MF | | N/A | |
| | H39 | 175 | 86741 | GEM175MLTAC3-5 | 1- 175w MH M 57 or H 39 Quad (120/208/240/277V) | 10MFD 400V | 10 | 400 | 400 | 75433 | GECAP-10/400V-O | | 005-1184-MF | | N/A | |
| | H37 | 250 | 87211 | GEM250MLSAC3-5 | 1- 250w MH M 58 or H 37 5-Tap (120/208/240/277/480V) | 15MFD 400V | 15 | 400 | 400 | 75434 | GECAP-15/400V-O | | 005-1185-MF | | N/A | |
| | H37 | 250 | 87212 | GEM250MLSAC4-5 | 1- 250w MH M 58 or H 37 5-Tap (120/208/240/277/480V) | 15MFD 400V | 15 | 400 | 400 | 75434 | GECAP-15/400V-O | | 005-1185-MF | | N/A | |
| | H37 | 250 | 86765 | GEM250MLTAC3-5 | 1- 250w MH M 58 or H 37 Quad (120/208/240/277V) | 15MFD 400V | 15 | 400 | 400 | 75434 | GECAP-15/400V-O | | 005-1185-MF | | N/A | |
| | H33 | 400 | 86803 | GEM40048TAC4-5 | 1- 400w MH M 59 or H 33 480 | 24MFD 400V | 24 | 400 | 400 | 75435 | GECAP-24/400V-O | | 005-2779-MF | | N/A | |
| | H33 | 400 | 72300 | GEM400MLSAA4-5 | 1- 400w MH M59 or H33 5-Tap (120/208/240/277/480V) Al C&C | 24MFD 400V | 24 | 400 | 360 | 75435 | GECAP-24/400V-O | | 005-2779-MF | | N/A | |
| | H33 | 400 | 72149 | GEM400MLTAA4-5 | 1- 400w MH M 59 or H 33 Quad (120/208/240/277V) Al C&C | 24MFD 400V | 24 | 400 | 400 | 75435 | GECAP-24/400V-O | | 005-2779-MF | | N/A | |
| | H36 | 1000 | 86650 | GEM100048TAC5-5 | 1- 1000w MH M 47 or H 36 480 | 24MFD 480V | 24 | 480 | 480 | 75668 | GECAP-24/480V-O | | 005-2779-MF | | N/A | |
| | H36 | 1000 | 87213 | GEM1000MLSAC5-5 | 1- 1000w MH M 47 or H 36 5-Tap (120/208/240/277/480V) | 24MFD 480V | 24 | 480 | 480 | 75668 | GECAP-24/480V-O | | 005-2779-MF | | N/A | |
| | H36 | 1000 | 86655 | GEM1000MLTAC5-5 | 1- 1000w MH M 47 or H 36 Quad (120/208/240/277V) | 24MFD 480V | 24 | 480 | 480 | 75668 | GECAP-24/480V-O | | 005-2779-MF | | N/A | |

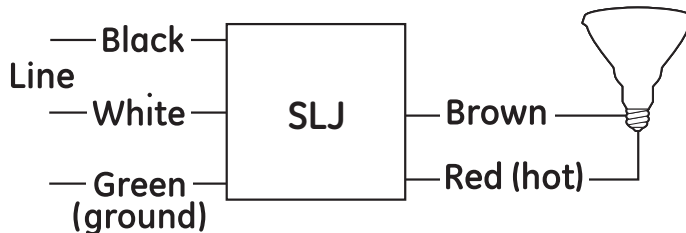
Wiring Diagrams

HID Electronic Ballasts

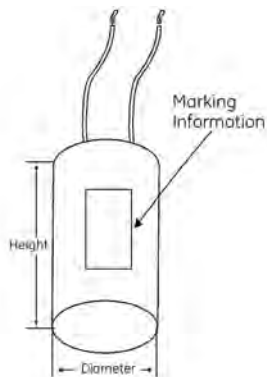
WD-eHID MLF/MSF



WD-eHID-SLJ

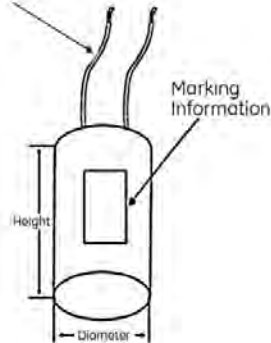


Igniter



HID Lighting Capacitor

8 ± 3/8 inch, 18 gauge standard wire
 150°C EPDM insulated
 38 ± 0.08 inch stripped end
 UL recognized



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

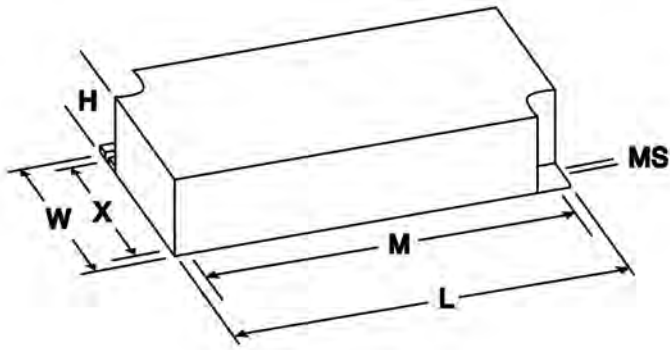
Compact Fluorescent

HID Electronic & Electromagnetic

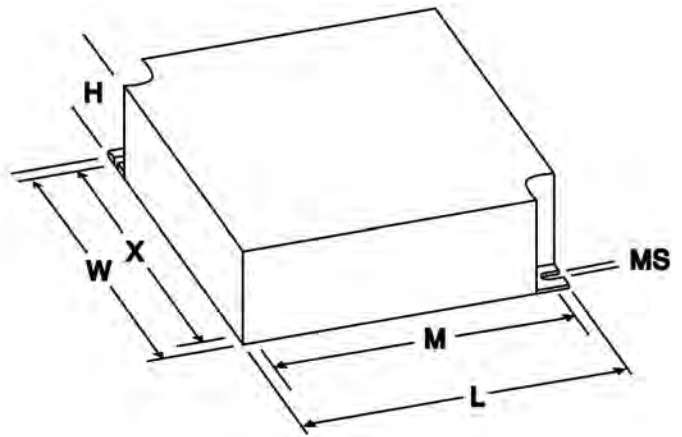
Case Dimensions

HID Electronic Ballasts

MLF



MSF



SLJ

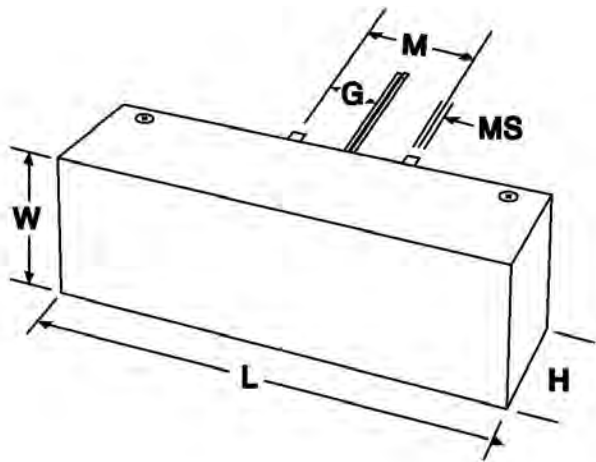


Fig. 2

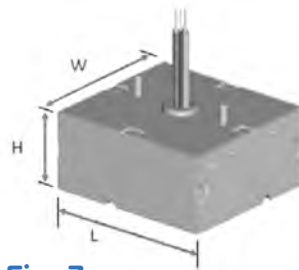
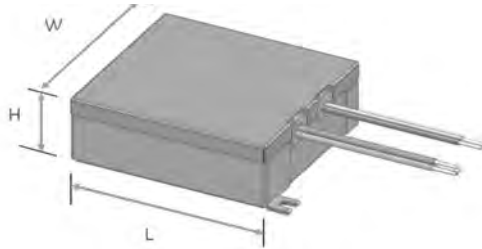


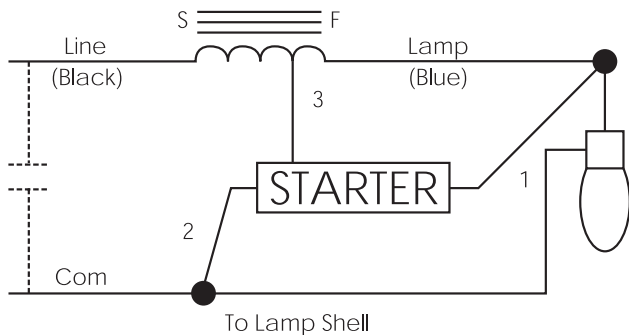
Fig. 3



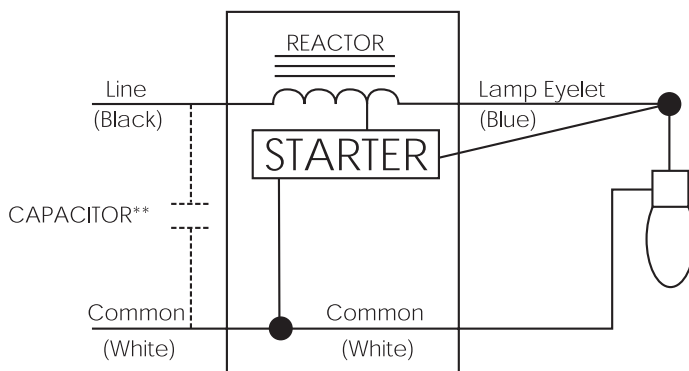
Wiring Diagrams

HID Electromagnetic Ballasts

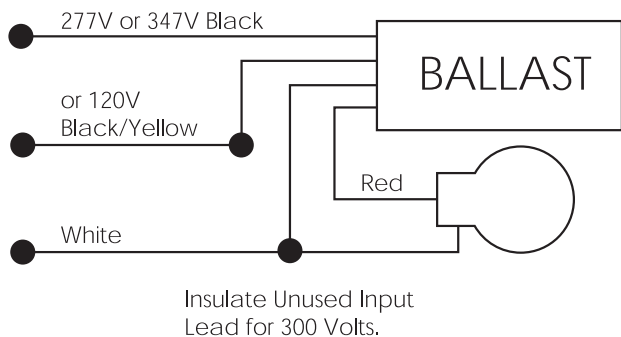
HID H1



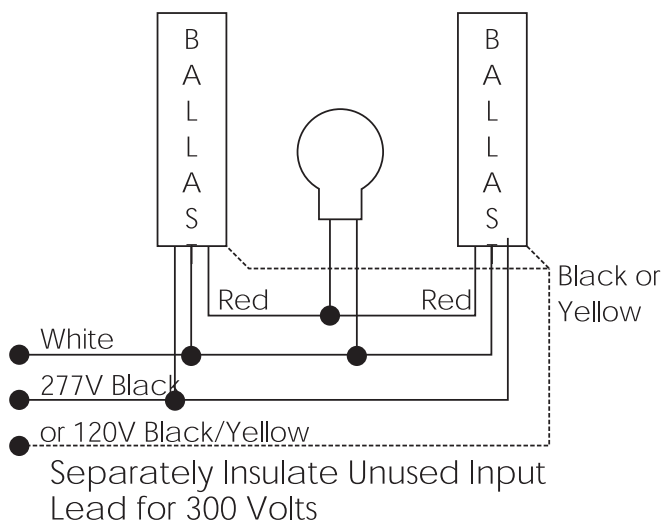
HID H1a



HID H34



HID H36



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

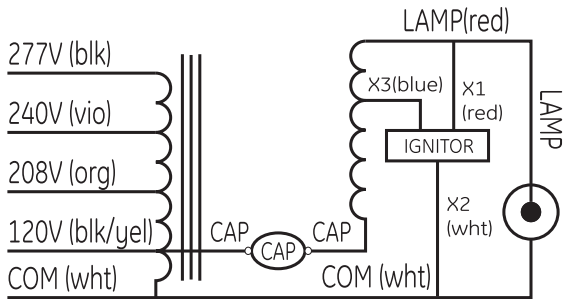
Compact Fluorescent

HID Electronic & Electromagnetic

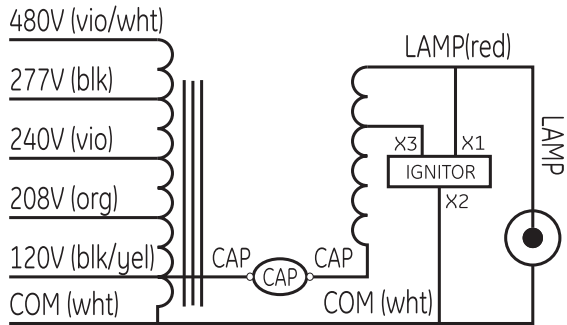
Wiring Diagrams

HID Electromagnetic Ballasts

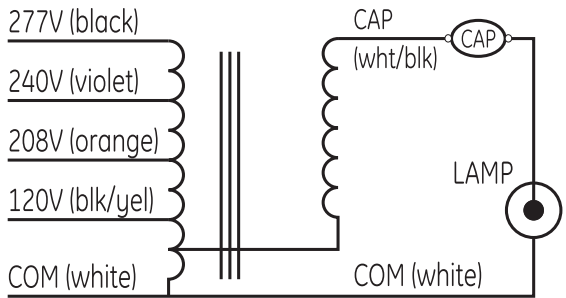
HID W-(A)



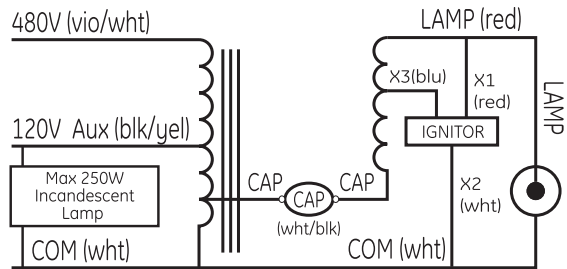
HID W-(B)



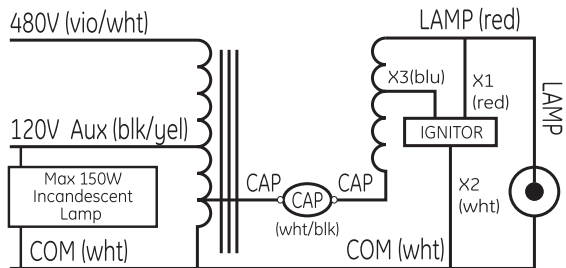
HID W-(C)



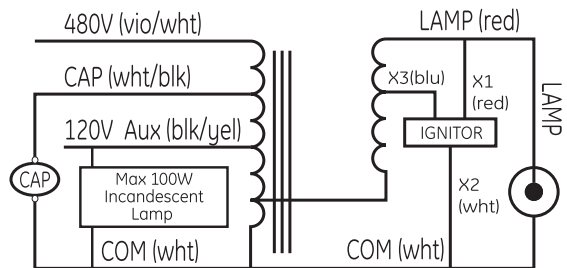
HID W-(D)



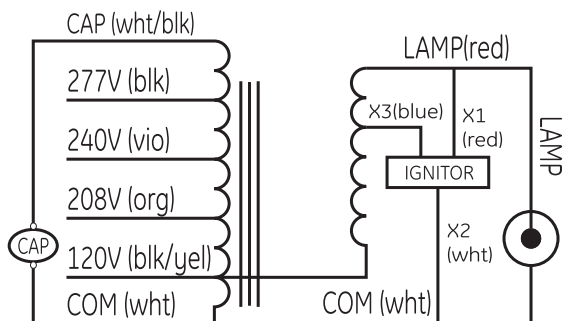
HID W-(E)



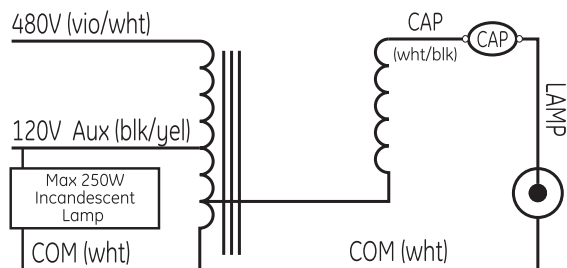
HID W-(F)



HID W-(H)



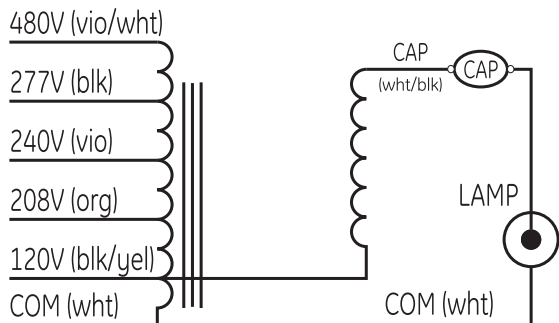
HID W-(J)



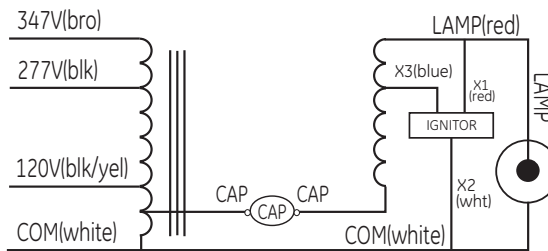
Wiring Diagrams

HID Electromagnetic Ballasts

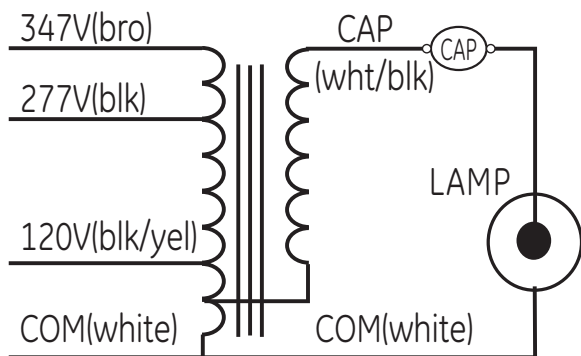
HID W-(K)



HID W-(L)



HID W-(M)



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

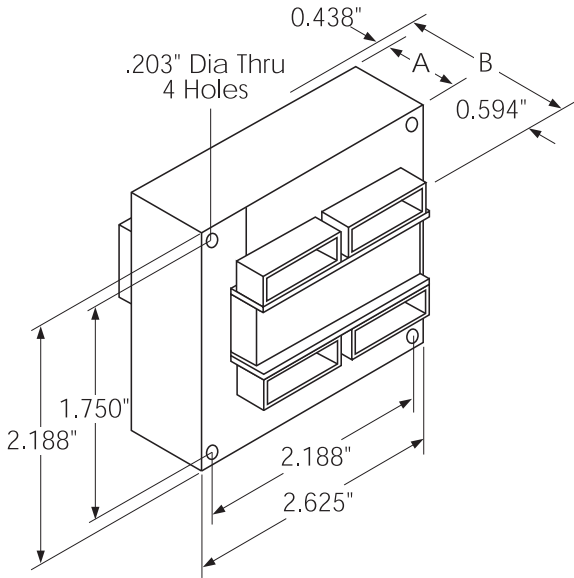
Compact Fluorescent

HID Electronic & Electromagnetic

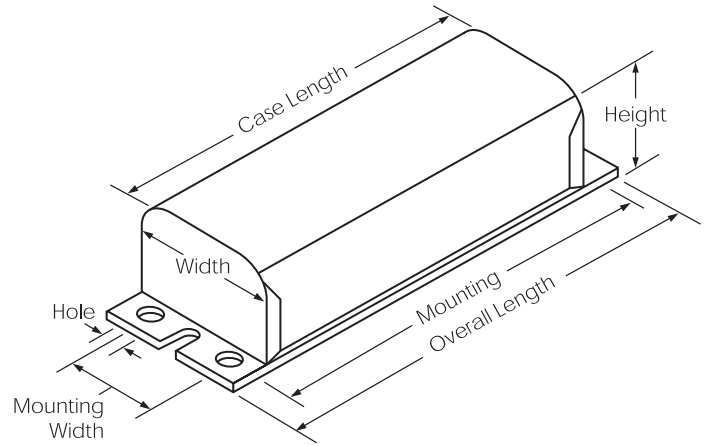
Case Dimensions

HID Electromagnetic Ballasts

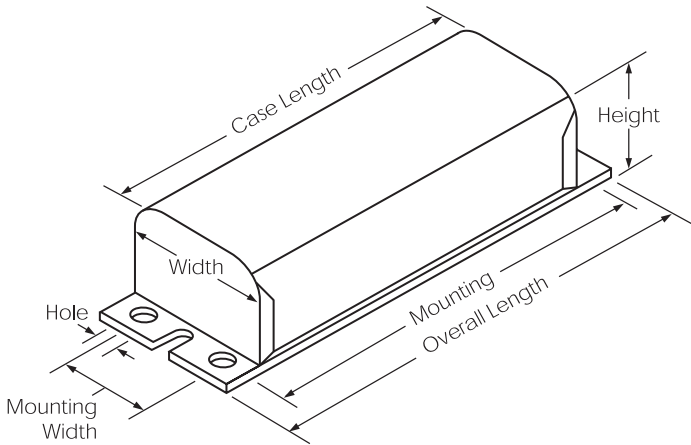
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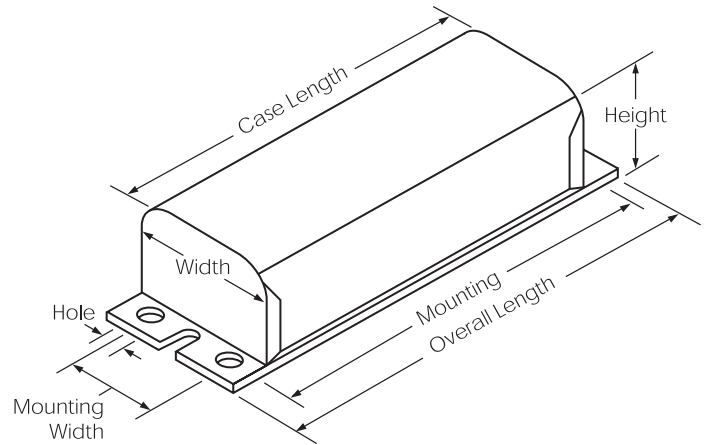
FCAN1



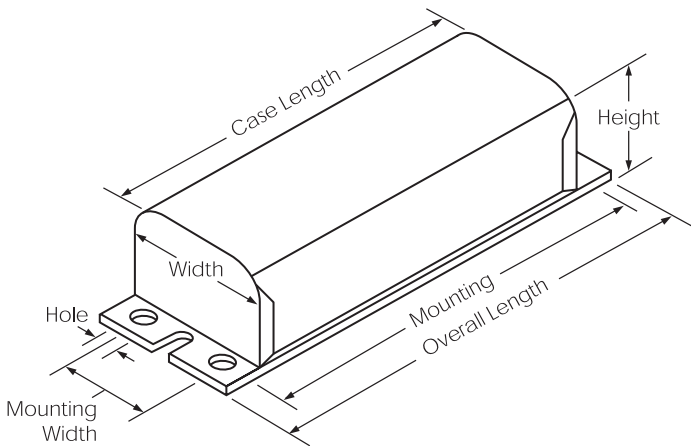
FCAN2



FCAN3



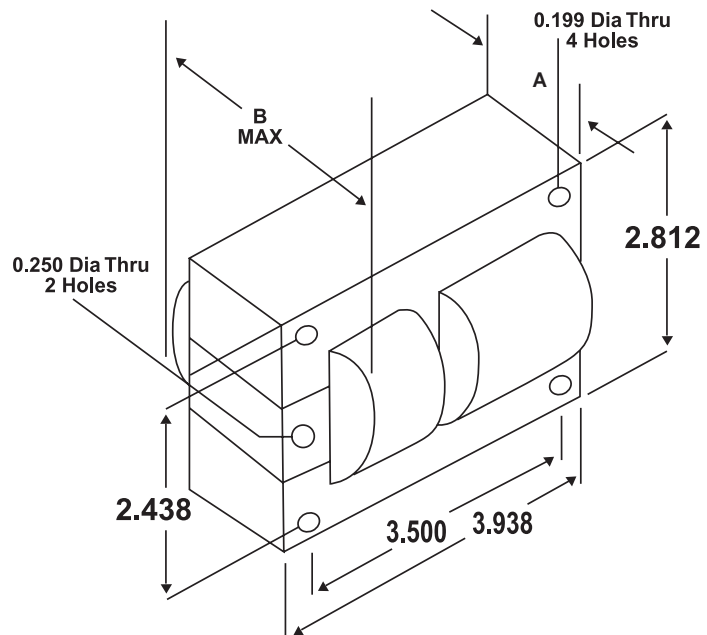
FCAN4



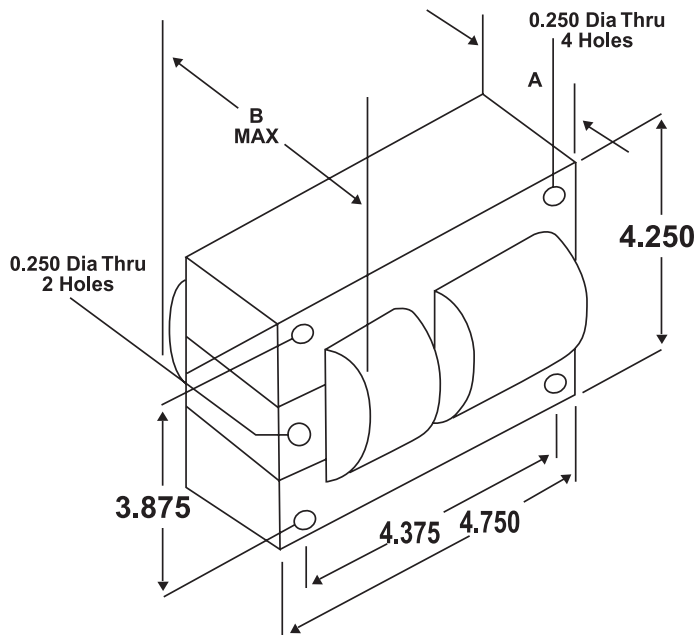
Case Dimensions

HID Electromagnetic Ballasts

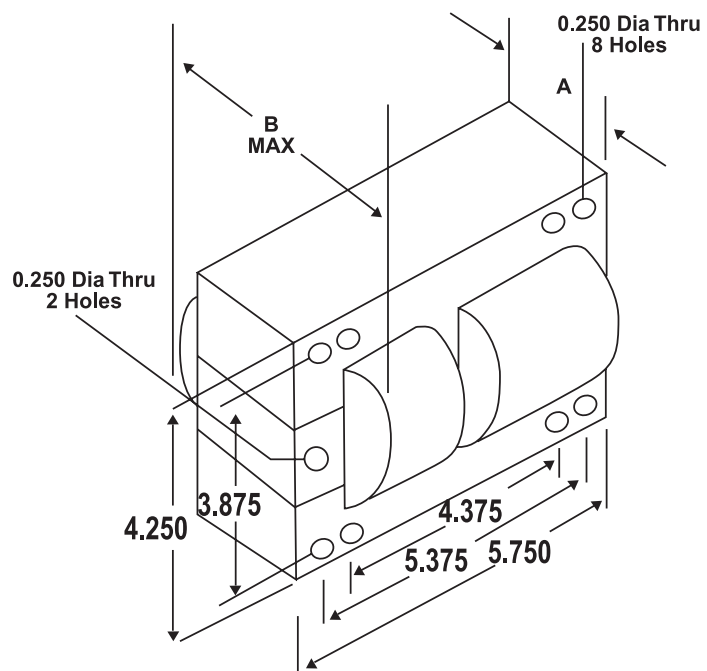
PC1



PC2



PC3



T8 Instant Start

T8 Programmed Start

T8/T5 Dimming

T5 Electronic Programmed Start

T12 Electronic & High Output

Magnetic

Sign

Compact Fluorescent

HID Electronic & Electromagnetic

Table of Contents

LED Drivers and Halogen Transformers

| | |
|--|-------|
| GE Lightech™ LED Drivers and Halogen Transformers..... | 19-2 |
| Halogen Transformers | 19-3 |
| LED Drivers - Constant Current..... | 19-15 |
| LED Drivers - Constant Voltage | 19-23 |
| Wiring Diagrams..... | 19-30 |



GE Lighttech™ LED Drivers and Halogen Transformers

One of the most trusted names in lighting is now powering even more innovative lighting solutions. We've combined our leadership, knowledge and experience to bring you effective, reliable GE Lighttech™ LED Drivers and Halogen Transformers. Create next-generation lighting systems that push the boundaries of performance and redefine efficiency. Plus, you'll receive the convenience and ease of getting your drivers and transformers from the same source as your lamps and ballasts.

Key applications include signage, architectural, downlight, track lighting and much more.

Full Phase Control Dimmable Drivers

- Dimmable with most LEADING EDGE (Triac) and TRAILING EDGE (ELV) dimmers
- Deep dimming to 1%
- Wide power range (4-36W)
- High power factor
- Efficient
- Side Lead and Bottom Feed versions available
- cULus Recognized, Class 2, 47 CFR Part 15, Class B (Consumer)

Trailing Edge Dimmable Drivers

- Dimmable with TRAILING EDGE (ELV) dimmers
- Dimming to 10%
- Wide power range (4-36W)
- Universal input voltage (120-277V)
- High power factor
- Highly efficient
- Side Lead and Bottom Feed versions available
- Small case size
- cULus Recognized, Class 2, 47 CFR Part 15, Class B (Consumer)

Low-voltage Halogen Electronic Transformers

GE Lighttech™ transformers offer outstanding dependability and efficiency, from smarter technology to longer life cycles, and everything in between. Features include:

- Utilizes a unique Auto-Thermal Regulation process – proportional dimming of output voltage over 90°C
- Self-preserving 125°C Thermal Cut-off
- Embedded technology to run cool with higher efficiency – 95% at full load
- Field-effect transistors – resulting in higher efficiency, smaller size and longer life than products with bipolar transistors

Halogen Transformers

LED Drivers and Halogen Transformers

66961 –

Halogen Transformer

60W Class 2 Plug-In Electronic Transformer. 12V. Black.

| General characteristics | |
|--------------------------|------------------------|
| Output Type | AC, Class 2 compliance |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.96 |
| Efficiency (%) | 90 |
| Output voltage (V) | 11.5 |
| Output Wattage Range (W) | 20-60 |
| Dimmability | - |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

66962 –

Halogen Transformer

60W Class 2 Plug-In Electronic Transformer. 12V. White.

| General characteristics | |
|--------------------------|------------------------|
| Output Type | AC, Class 2 compliance |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.96 |
| Efficiency (%) | 90 |
| Output voltage (V) | 11.5 |
| Output Wattage Range (W) | 20-60 |
| Dimmability | - |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

66936 –

Halogen Transformer

60W Class 2 Electronic Transformer. 12V. Bottom Feed.

| General characteristics | |
|--------------------------|------------------------|
| Output Type | AC, Class 2 compliance |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.96 |
| Efficiency (%) | 95 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-60 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example C on page 19-30

| | |
|-------------------------|---------|
| Casing length (in) | 3.94 |
| Casing width (in) | 1.5 |
| Casing height (in) | 2.2 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.53 |
| Lead Exit Type | Plug-In |
| Input wire length (in) | - |
| Output wire length (in) | 120 |

Dimensions

Wiring diagram – see example C on page 19-30

| | |
|-------------------------|---------|
| Casing length (in) | 3.94 |
| Casing width (in) | 1.5 |
| Casing height (in) | 2.2 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.53 |
| Lead Exit Type | Plug-In |
| Input wire length (in) | - |
| Output wire length (in) | 120 |

Dimensions

Wiring diagram – see example A on page 19-30

| | |
|-------------------------|--------|
| Casing length (in) | 2.36 |
| Casing width (in) | 1.32 |
| Casing height (in) | 0.87 |
| Mounting Dims (in) | 2.0 |
| Weight (lb) | 0.22 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 6.7 |
| Output wire length (in) | 5.5 |

Halogen Transformers

LED Drivers and Halogen Transformers

66937 –

Halogen Transformer

60W Class 2 Electronic Transformer. 12V.

| General characteristics | |
|--------------------------|------------------------|
| Output Type | AC, Class 2 compliance |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.96 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-60 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

66938 –

Halogen Transformer

60W Class 2 Electronic Transformer. 11.7V. 2.5W minimum load.

| General characteristics | |
|--------------------------|------------------------|
| Output Type | AC, Class 2 compliance |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.96 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 2.5-60 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

66939 –

Halogen Transformer

60W Class 2 Electronic Transformer. 12V. Dimming Loop.

| General characteristics | |
|--------------------------|------------------------|
| Output Type | AC, Class 2 compliance |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 60 |
| Power Factor Correction | 0.96 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-60 |
| Dimmability | 0-10V |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example A on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 2.09 |
| Casing width (in) | 1.30 |
| Casing height (in) | 0.79 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.9 |
| Output wire length (in) | 5.5 |

Dimensions

Wiring diagram – see example A on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 2.09 |
| Casing width (in) | 1.3 |
| Casing height (in) | 0.79 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.9 |
| Output wire length (in) | 5.5 |

Dimensions

Wiring diagram – see example D on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 2.09 |
| Casing width (in) | 1.3 |
| Casing height (in) | 0.79 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.7 |
| Output wire length (in) | 5.5 |

Halogen Transformers

LED Drivers and Halogen Transformers

66940 –

Halogen Transformer

60W Class 2 Electronic Transformer. 12V. Potentiometer on Dimming Loop.

| General characteristics | |
|--------------------------|------------------------|
| Output Type | AC, Class 2 compliance |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 60 |
| Power Factor Correction | 0.96 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-60 |
| Dimmability | 0-10V |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example D on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 2.09 |
| Casing width (in) | 1.3 |
| Casing height (in) | 0.79 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.7 |
| Output wire length (in) | 5.5 |

66943 –

Halogen Transformer

60W Class 2 Electronic Transformer. 12V. Ground Wire. Double-Sided Tape.

| General characteristics | |
|--------------------------|------------------------|
| Output Type | AC, Class 2 compliance |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 60 |
| Power Factor Correction | 0.96 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-60 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example E on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 2.09 |
| Casing width (in) | 1.30 |
| Casing height (in) | 0.79 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.9 |
| Output wire length (in) | 5.5 |

66963 –

Halogen Transformer

60W Class 2 Electronic Transformer. 12V. In Secondary Housing.

| General characteristics | |
|--------------------------|------------------------|
| Output Type | AC, Class 2 compliance |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.96 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-60 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example A on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.5 |
| Casing width (in) | 1.7 |
| Casing height (in) | 1.42 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.75 |
| Lead Exit Type | Side |
| Input wire length (in) | - |
| Output wire length (in) | - |

Halogen Transformers

LED Drivers and Halogen Transformers

66945 –

Halogen Transformer

75W Electronic Transformer. 12V.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | 95 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-75 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

66967 –

Halogen Transformer

75W Electronic Transformer. Mounting Tab.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | 95 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-75 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

66946 –

Halogen Transformer

75W Electronic Transformer. 12V. Bottom Feed.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | 95 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-75 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

| Dimensions | |
|--|------|
| Wiring diagram – see example A on page 19-30 | |
| Casing length (in) | 2.1 |
| Casing width (in) | 1.3 |
| Casing height (in) | 0.79 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.9 |
| Output wire length (in) | 5.5 |

| Dimensions | |
|--|------|
| Wiring diagram – see example A on page 19-30 | |
| Casing length (in) | 2.4 |
| Casing width (in) | 1.3 |
| Casing height (in) | 0.79 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.9 |
| Output wire length (in) | 5.9 |

| Dimensions | |
|--|--------|
| Wiring diagram – see example A on page 19-30 | |
| Casing length (in) | 2.36 |
| Casing width (in) | 1.32 |
| Casing height (in) | 0.87 |
| Mounting Dims (in) | 2.0 |
| Weight (lb) | 0.22 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 7.3 |
| Output wire length (in) | 5.5 |

Halogen Transformers

LED Drivers and Halogen Transformers

66947 –

Halogen Transformer

75W Electronic Transformer. 12V. Ground Wire.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | 95 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-75 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example E on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 2.1 |
| Casing width (in) | 1.3 |
| Casing height (in) | 0.79 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.9 |
| Output wire length (in) | 5.5 |

66948 –

Halogen Transformer

75W Electronic Transformer. 12V. Double-Sided Tape.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | 95 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-75 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example A on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 2.1 |
| Casing width (in) | 1.3 |
| Casing height (in) | 0.79 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.9 |
| Output wire length (in) | 5.5 |

66951 –

Halogen Transformer

75W Electronic Transformer. 24V.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | 95 |
| Output voltage (V) | 23.2 |
| Output Wattage Range (W) | 20-75 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example F on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 2.1 |
| Casing width (in) | 1.3 |
| Casing height (in) | 0.79 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 6.0 |
| Output wire length (in) | 6.0 |

Halogen Transformers

LED Drivers and Halogen Transformers

66952 –

Halogen Transformer

75W Electronic Transformer. 12V. Increased EMI Filtering.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 10-75 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

66953 –

Halogen Transformer

75W Electronic Transformer. 12V. Increased EMI Filtering. Bottom Feed.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 10-75 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

68662 –

Halogen Transformer

75W Electronic Transformer. 12V. Black.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 240 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.7 |
| Output Wattage Range (W) | 20-75 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 85 |

| Dimensions | |
|--|------|
| Wiring diagram – see example A on page 19-30 | |
| Casing length (in) | 2.52 |
| Casing width (in) | 1.34 |
| Casing height (in) | 0.83 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.7 |
| Output wire length (in) | 8.7 |

| Dimensions | |
|--|--------|
| Wiring diagram – see example A on page 19-30 | |
| Casing length (in) | 3.48 |
| Casing width (in) | 1.44 |
| Casing height (in) | 1.15 |
| Mounting Dims (in) | 2.0 |
| Weight (lb) | 0.24 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 6.3 |
| Output wire length (in) | 6.3 |

| Dimensions | |
|--|------|
| Wiring diagram – see example G on page 19-30 | |
| Casing length (in) | 2.52 |
| Casing width (in) | 1.34 |
| Casing height (in) | 0.83 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.22 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.1 |
| Output wire length (in) | 7.7 |

Halogen Transformers

LED Drivers and Halogen Transformers

66954 –

Halogen Transformer

75W Electronic Transformer. 12V. 277V Input.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 277 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | - |
| Output voltage (V) | 11.5 |
| Output Wattage Range (W) | 35-75 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example H on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 2.52 |
| Casing width (in) | 1.34 |
| Casing height (in) | 0.83 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.25 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.1 |
| Output wire length (in) | 9.1 |

66955 –

Halogen Transformer

75W Electronic Transformer. 12V. 277V Input. Bottom Feed.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 277 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | - |
| Output voltage (V) | 11.5 |
| Output Wattage Range (W) | 35-75 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example H on page 19-30

| | |
|-------------------------|--------|
| Casing length (in) | 3.48 |
| Casing width (in) | 1.44 |
| Casing height (in) | 1.15 |
| Mounting Dims (in) | 2.0 |
| Weight (lb) | 0.26 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 6.3 |
| Output wire length (in) | 6.3 |

66956 –

Halogen Transformer

105W Electronic Transformer. 12V.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.5 |
| Output Wattage Range (W) | 20-100 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example A on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 3.15 |
| Casing width (in) | 1.35 |
| Casing height (in) | 0.95 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.27 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.7 |
| Output wire length (in) | 7.3 |

Halogen Transformers

LED Drivers and Halogen Transformers

68663 –

Halogen Transformer

105W Electronic Transformer. 12V. 240V Input.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 240 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-105 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 85 |

| Dimensions | |
|--|------|
| Wiring diagram – see example G on page 19-30 | |
| Casing length (in) | 3.15 |
| Casing width (in) | 1.25 |
| Casing height (in) | 1.04 |
| Mounting Dims (in) | 3.53 |
| Weight (lb) | 0.29 |
| Lead Exit Type | Side |
| Input wire length (in) | 6.7 |
| Output wire length (in) | 6.7 |

66957 –

Halogen Transformer

150W Electronic Transformer. 12V. Bottom Feed.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.98 |
| Efficiency (%) | 93 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 50-150 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 85 |

| Dimensions | |
|--|--------|
| Wiring diagram – see example A on page 19-30 | |
| Casing length (in) | 3.31 |
| Casing width (in) | 1.38 |
| Casing height (in) | 1.61 |
| Mounting Dims (in) | 4.13 |
| Weight (lb) | 0.42 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 6.3 |
| Output wire length (in) | 6.3 |

66958 –

Halogen Transformer

150W Electronic Transformer. 12V.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.98 |
| Efficiency (%) | 93 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 50-150 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 85 |

| Dimensions | |
|--|------|
| Wiring diagram – see example A on page 19-30 | |
| Casing length (in) | 3.44 |
| Casing width (in) | 1.38 |
| Casing height (in) | 1.22 |
| Mounting Dims (in) | 3.62 |
| Weight (lb) | 0.42 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.1 |
| Output wire length (in) | 9.1 |

Halogen Transformers

LED Drivers and Halogen Transformers

66970 –

Halogen Transformer

150W Electronic Transformer. 24V.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.98 |
| Efficiency (%) | 93 |
| Output voltage (V) | 23 |
| Output Wattage Range (W) | 50-150 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 85 |

Dimensions

Wiring diagram – see example F on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 3.44 |
| Casing width (in) | 1.38 |
| Casing height (in) | 1.22 |
| Mounting Dims (in) | 3.62 |
| Weight (lb) | 0.42 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.1 |
| Output wire length (in) | 9.1 |

66969 –

Halogen Transformer

150W Electronic Transformer. 12V. In Secondary Housing.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.98 |
| Efficiency (%) | 93 |
| Output voltage (V) | 11.5 |
| Output Wattage Range (W) | 50-150 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 85 |

Dimensions

Wiring diagram – see example A on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 9.35 |
| Casing width (in) | 1.82 |
| Casing height (in) | 1.4 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.95 |
| Lead Exit Type | Side |
| Input wire length (in) | - |
| Output wire length (in) | - |

66972 –

Halogen Transformer

150W Electronic Transformer. 24V. In Secondary housing.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.98 |
| Efficiency (%) | 93 |
| Output voltage (V) | 23 |
| Output Wattage Range (W) | 50-150 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +40 |
| Case Temperature (°C) | 85 |

Dimensions

Wiring diagram – see example F on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 9.35 |
| Casing width (in) | 1.82 |
| Casing height (in) | 1.4 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.95 |
| Lead Exit Type | Side |
| Input wire length (in) | - |
| Output wire length (in) | - |

Halogen Transformers

LED Drivers and Halogen Transformers

68664 –

Halogen Transformer

150W Class 2 Electronic Transformer. 12V.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 240 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.95 |
| Efficiency (%) | - |
| Output voltage (V) | 11.5 |
| Output Wattage Range (W) | 50-150 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 10 to +45 |
| Case Temperature (°C) | 85 |

| Dimensions | |
|--|------|
| Wiring diagram – see example G on page 19-30 | |
| Casing length (in) | 4.25 |
| Casing width (in) | 1.26 |
| Casing height (in) | 1.14 |
| Mounting Dims (in) | 4.72 |
| Weight (lb) | 0.37 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.3 |
| Output wire length (in) | 7.3 |

66960 –

Halogen Transformer

200W Electronic Transformer. 12V. Increased EMI Filtering.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.98 |
| Efficiency (%) | 94 |
| Output voltage (V) | 11.5 |
| Output Wattage Range (W) | 50-200 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

| Dimensions | |
|--|------|
| Wiring diagram – see example A on page 19-30 | |
| Casing length (in) | 4.33 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.24 |
| Mounting Dims (in) | 4.61 |
| Weight (lb) | 0.66 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.1 |
| Output wire length (in) | 9.0 |

66973 –

Halogen Transformer

300W Electronic Transformer. 12V. Round.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 60 |
| Power Factor Correction | 0.99 |
| Efficiency (%) | 95.5 |
| Output voltage (V) | 11.8 |
| Output Wattage Range (W) | 50-300 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

| Dimensions | |
|--|------|
| Wiring diagram – see example A on page 19-30 | |
| Casing length (in) | 3.62 |
| Casing width (in) | - |
| Casing height (in) | 1.26 |
| Mounting Dims (in) | - |
| Weight (lb) | 1.03 |
| Lead Exit Type | Side |
| Input wire length (in) | 6.5 |
| Output wire length (in) | 6.5 |

Halogen Transformers

LED Drivers and Halogen Transformers

66975 –

Halogen Transformer

300W Electronic Transformer. 12V.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 60 |
| Power Factor Correction | 0.99 |
| Efficiency (%) | 95.5 |
| Output voltage (V) | 11.8 |
| Output Wattage Range (W) | 50-300 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example A on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.02 |
| Casing width (in) | 1.54 |
| Casing height (in) | 1.12 |
| Mounting Dims (in) | 5.51 |
| Weight (lb) | 0.74 |
| Lead Exit Type | Side |
| Input wire length (in) | 6.9 |
| Output wire length (in) | 6.9 |

66977 –

Halogen Transformer

300W Electronic Transformer. 24V.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 60 |
| Power Factor Correction | 0.99 |
| Efficiency (%) | 95.5 |
| Output voltage (V) | 24 |
| Output Wattage Range (W) | 50-300 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example F on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.02 |
| Casing width (in) | 1.54 |
| Casing height (in) | 1.12 |
| Mounting Dims (in) | 5.51 |
| Weight (lb) | 0.74 |
| Lead Exit Type | Side |
| Input wire length (in) | 6.9 |
| Output wire length (in) | 6.9 |

66979 –

Halogen Transformer

300W Electronic Transformer. 12V. In Secondary Housing.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 60 |
| Power Factor Correction | 0.99 |
| Efficiency (%) | 95.5 |
| Output voltage (V) | 11.8 |
| Output Wattage Range (W) | 50-300 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example A on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 9.35 |
| Casing width (in) | 1.82 |
| Casing height (in) | 1.4 |
| Mounting Dims (in) | - |
| Weight (lb) | 1.5 |
| Lead Exit Type | Side |
| Input wire length (in) | - |
| Output wire length (in) | - |

Halogen Transformers

LED Drivers and Halogen Transformers

66980 –

Halogen Transformer

300W Electronic Transformer. 24V. In Secondary Housing.

| General characteristics | |
|--------------------------|---------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 60 |
| Power Factor Correction | 0.99 |
| Efficiency (%) | 95.5 |
| Output voltage (V) | 24 |
| Output Wattage Range (W) | 50-300 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | 0 to +50 |
| Case Temperature (°C) | 90 |

66978 –

Halogen Transformer

360W Class 2 Electronic Transformer. 12V. 6 x 60W.

| General characteristics | |
|--------------------------|------------------------|
| Output Type | AC, Class 2 compliance |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | 0.96 |
| Efficiency (%) | 95 |
| Output voltage (V) | 11.6 |
| Output Wattage Range (W) | 20-360 |
| Dimmability | Trailing Edge |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

68665 –

Halogen Transformer

Line Filter. EMI Filter. In-line.

| General characteristics | |
|--------------------------|------------|
| Output Type | AC |
| Input voltage (V) | 120 |
| Input frequency (Hz) | 50-60 |
| Power Factor Correction | - |
| Efficiency (%) | - |
| Inductance (mH) | 15 |
| Output Wattage Range (W) | - |
| Dimmability | - |
| Ambient Temperature (°C) | -10 to +50 |
| Case Temperature (°C) | 90 |

| Dimensions | |
|--|------|
| Wiring diagram – see example F on page 19-30 | |
| Casing length (in) | 9.35 |
| Casing width (in) | 1.82 |
| Casing height (in) | 1.4 |
| Mounting Dims (in) | - |
| Weight (lb) | 1.5 |
| Lead Exit Type | Side |
| Input wire length (in) | - |
| Output wire length (in) | - |

| Dimensions | |
|--|------|
| Wiring diagram – see example I on page 19-30 | |
| Casing length (in) | 8.27 |
| Casing width (in) | 4.72 |
| Casing height (in) | 1.71 |
| Mounting Dims (in) | - |
| Weight (lb) | 2.43 |
| Lead Exit Type | Side |
| Input wire length (in) | - |
| Output wire length (in) | - |

| Dimensions | |
|--|------|
| Wiring diagram – see example J on page 19-30 | |
| Casing length (in) | 1.3 |
| Casing width (in) | 1.18 |
| Casing height (in) | 0.74 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.13 |
| Lead Exit Type | Side |
| Input wire length (in) | 2.2 |
| Output wire length (in) | 2.2 |

LED Drivers - Constant Current

LED Drivers and Halogen Transformers

66866 –

Constant Current, Class 2 Compliance

6W LED Driver. 700mA. Non-Dimming.

| General characteristics | |
|------------------------------|----------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 70 |
| Output Type | DC |
| Output Current (mA) | 700 |
| Output Voltage Range (V) | 2.0-11.0 |
| Output Wattage Range (W) | 1.4-7.7 |
| Dimmability | None |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 71 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 1.77 |
| Casing width (in) | 1.77 |
| Casing height (in) | 0.98 |
| Mounting Dims (in) | 2.05 |
| Weight (lb) | 0.25 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.1 |
| Output wire length (in) | 8.1 |

66867 –

Constant Current, Class 2 Compliance

10W LED Driver. 350mA. Non-Dimming. Terminal Blocks.

| General characteristics | |
|------------------------------|----------|
| Input Voltage (V) | 100-240 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 78 |
| Output Type | DC |
| Output Current (mA) | 350 |
| Output Voltage Range (V) | 2.3-28.0 |
| Output Wattage Range (W) | 0.81-9.8 |
| Dimmability | None |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example B on page 19-30

| | |
|-------------------------|-----------|
| Casing length (in) | 3.94 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.05 |
| Mounting Dims (in) | 3.54x1.18 |
| Weight (lb) | 0.21 |
| Lead Exit Type | Terminals |
| Input wire length (in) | - |
| Output wire length (in) | - |

66868 –

Constant Current, Class 2 Compliance

10W LED Driver. 700mA. Non-Dimming.

| General characteristics | |
|------------------------------|-----------|
| Input Voltage (V) | 100-240 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 68 |
| Output Type | DC |
| Output Current (mA) | 700 |
| Output Voltage Range (V) | 2.3-15.0 |
| Output Wattage Range (W) | 1.61-10.5 |
| Dimmability | None |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|-----------|
| Casing length (in) | 3.82 |
| Casing width (in) | 1.57 |
| Casing height (in) | 0.91 |
| Mounting Dims (in) | 3.62x1.18 |
| Weight (lb) | 0.39 |
| Lead Exit Type | Side |
| Input wire length (in) | 19.1 |
| Output wire length (in) | 19.1 |

LED Drivers - Constant Current

LED Drivers and Halogen Transformers

66863 –

Constant Current, Class 2 Compliance

1W LED Driver. 350mA. Non-Dimming.

| General characteristics | |
|------------------------------|---------|
| Input Voltage (V) | 100-240 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 50 |
| Output Type | DC |
| Output Current (mA) | 350 |
| Output Voltage Range (V) | 2.0-6.0 |
| Output Wattage Range (W) | 0.7-2.1 |
| Dimmability | None |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

66864 –

Constant Current, Class 2 Compliance

6W LED Driver. 350mA. Non-Dimming.

| General characteristics | |
|------------------------------|----------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 70 |
| Output Type | DC |
| Output Current (mA) | 350 |
| Output Voltage Range (V) | 2.0-20.0 |
| Output Wattage Range (W) | 0.7-7.0 |
| Dimmability | None |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 71 |

66865 –

Constant Current, Class 2 Compliance

6W LED Driver. 500mA. Non-Dimming.

| General characteristics | |
|------------------------------|----------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 70 |
| Output Type | DC |
| Output Current (mA) | 500 |
| Output Voltage Range (V) | 2.0-14.0 |
| Output Wattage Range (W) | 1.0-7.0 |
| Dimmability | None |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 71 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 1.34 |
| Casing width (in) | 1.26 |
| Casing height (in) | 0.98 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.14 |
| Lead Exit Type | Side |
| Input wire length (in) | 7.7 |
| Output wire length (in) | 7.7 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 1.77 |
| Casing width (in) | 1.77 |
| Casing height (in) | 0.98 |
| Mounting Dims (in) | 2.05 |
| Weight (lb) | 0.25 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.1 |
| Output wire length (in) | 8.1 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 1.77 |
| Casing width (in) | 1.77 |
| Casing height (in) | 0.98 |
| Mounting Dims (in) | 2.05 |
| Weight (lb) | 0.25 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.1 |
| Output wire length (in) | 8.1 |

LED Drivers - Constant Current

LED Drivers and Halogen Transformers

66870 –

Constant Current, Class 2 Compliance

10W LED Driver. 350mA. Non-Dimming. In Secondary Housing.

| General characteristics | |
|------------------------------|----------|
| Input Voltage (V) | 120 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 78 |
| Output Type | DC |
| Output Current (mA) | 350 |
| Output Voltage Range (V) | 2.3-28.0 |
| Output Wattage Range (W) | 0.81-9.8 |
| Dimmability | None |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

66880 –

Constant Current, Class 2 Compliance

10W LED Driver. 350mA. Non-Dimming. Plug-In. White.

| General characteristics | |
|------------------------------|------------|
| Input Voltage (V) | 120 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 78 |
| Output Type | DC |
| Output Current (mA) | 350 |
| Output Voltage Range (V) | 2.3-2.9 |
| Output Wattage Range (W) | 0.81-10.15 |
| Dimmability | None |
| Ambient Temperature min (°C) | 10 |
| Ambient Temperature max (°C) | 35 |
| Case Temperature (°C) | 90 |

66871 –

Constant Current, Class 2 Compliance

18W LED Driver. 350mA. TE Dimming.

| General characteristics | |
|------------------------------|---------------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 85 |
| Output Type | DC |
| Output Current (mA) | 350 |
| Output Voltage Range (V) | 4.0-52.0 |
| Output Wattage Range (W) | 1.4-18.20 |
| Dimmability | Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.48 |
| Casing width (in) | 1.68 |
| Casing height (in) | 1.41 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.87 |
| Lead Exit Type | Side |
| Input wire length (in) | - |
| Output wire length (in) | - |

Dimensions

Wiring diagram – see example C on page 19-30

| | |
|-------------------------|---------|
| Casing length (in) | 3.15 |
| Casing width (in) | 1.50 |
| Casing height (in) | 0.95 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.53 |
| Lead Exit Type | Plug-in |
| Input wire length (in) | - |
| Output wire length (in) | 120 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.02 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.20 |
| Mounting Dims (in) | 5.51 |
| Weight (lb) | 0.74 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.46 |
| Output wire length (in) | 8.46 |

LED Drivers - Constant Current

LED Drivers and Halogen Transformers

66872 –

Constant Current, Class 2 Compliance

18W LED Driver. 350mA. TE Dimming. Bottom Feed.

| General characteristics | |
|------------------------------|---------------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 85 |
| Output Type | DC |
| Output Current (mA) | 350 |
| Output Voltage Range (V) | 4.0-52.0 |
| Output Wattage Range (W) | 1.4-18.2 |
| Dimmability | Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

66883 –

Constant Current, Class 2 Compliance

18W LED Driver. 700mA. TE Dimming. Bottom Feed.

| General characteristics | |
|------------------------------|---------------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 83 |
| Output Type | DC |
| Output Current (mA) | 700 |
| Output Voltage Range (V) | 4.0-26.0 |
| Output Wattage Range (W) | 2.8-18.2 |
| Dimmability | Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

66884 –

Constant Current, Class 2 Compliance

18W LED Driver. 700mA. TE Dimming.

| General characteristics | |
|------------------------------|---------------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 83 |
| Output Type | DC |
| Output Current (mA) | 700 |
| Output Voltage Range (V) | 4.0-26.0 |
| Output Wattage Range (W) | 2.8-18.2 |
| Dimmability | Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|--------|
| Casing length (in) | 5.33 |
| Casing width (in) | 1.67 |
| Casing height (in) | 1.32 |
| Mounting Dims (in) | 2.0 |
| Weight (lb) | 0.75 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 6.0 |
| Output wire length (in) | 6.0 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|--------|
| Casing length (in) | 5.33 |
| Casing width (in) | 1.67 |
| Casing height (in) | 1.32 |
| Mounting Dims (in) | 2.0 |
| Weight (lb) | 0.75 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 6.0 |
| Output wire length (in) | 6.0 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.02 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.20 |
| Mounting Dims (in) | 5.51 |
| Weight (lb) | 0.74 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.46 |
| Output wire length (in) | 8.46 |

LED Drivers - Constant Current

LED Drivers and Halogen Transformers

66902 –

Constant Current, Class 2 Compliance

26W LED Driver. 500mA. TE Dimming.

| General characteristics | |
|------------------------------|---------------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 86 |
| Output Type | DC |
| Output Current (mA) | 500 |
| Output Voltage Range (V) | 4.0-52.0 |
| Output Wattage Range (W) | 2.0-26.0 |
| Dimmability | Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.02 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.20 |
| Mounting Dims (in) | 5.51 |
| Weight (lb) | 0.74 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.46 |
| Output wire length (in) | 8.46 |

66903 –

Constant Current, Class 2 Compliance

26W LED Driver. 500mA. TE Dimming. Bottom Feed.

| General characteristics | |
|------------------------------|---------------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 86 |
| Output Type | DC |
| Output Current (mA) | 500 |
| Output Voltage Range (V) | 4.0-52.0 |
| Output Wattage Range (W) | 2.0-26.0 |
| Dimmability | Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|--------|
| Casing length (in) | 5.33 |
| Casing width (in) | 1.67 |
| Casing height (in) | 1.32 |
| Mounting Dims (in) | 2.0 |
| Weight (lb) | 0.75 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 6.0 |
| Output wire length (in) | 6.0 |

66904 –

Constant Current, Class 2 Compliance

36W LED Driver. 700mA. TE Dimming.

| General characteristics | |
|------------------------------|---------------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 88 |
| Output Type | DC |
| Output Current (mA) | 700 |
| Output Voltage Range (V) | 4.0-52.0 |
| Output Wattage Range (W) | 2.8-36.4 |
| Dimmability | Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.02 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.20 |
| Mounting Dims (in) | 5.51 |
| Weight (lb) | 0.74 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.46 |
| Output wire length (in) | 8.46 |

LED Drivers - Constant Current

LED Drivers and Halogen Transformers

66905 –

Constant Current, Class 2 Compliance

36W LED Driver. 700mA. TE Dimming. Bottom Feed.

| General characteristics | |
|------------------------------|---------------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | 88 |
| Output Type | DC |
| Output Current (mA) | 700 |
| Output Voltage Range (V) | 4.0-52.0 |
| Output Wattage Range (W) | 2.8-36.4 |
| Dimmability | Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

66885 –

Constant Current, Class 2 Compliance

18W LED Driver. 350mA. LE/TE Dimming.

| General characteristics | |
|------------------------------|-----------------------|
| Input Voltage (V) | 120 |
| Input Frequency (Hz) | 60 |
| Efficiency (%) | 76 |
| Output Type | DC |
| Output Current (mA) | 350 |
| Output Voltage Range (V) | 5.6-42.0 |
| Output Wattage Range (W) | 1.96-14.7 |
| Dimmability | Leading/Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 80 |

66886 –

Constant Current, Class 2 Compliance

18W LED Driver. 350mA. LE/TE Dimming. Bottom Feed.

| General characteristics | |
|------------------------------|-----------------------|
| Input Voltage (V) | 120 |
| Input Frequency (Hz) | 60 |
| Efficiency (%) | 76 |
| Output Type | DC |
| Output Current (mA) | 350 |
| Output Voltage Range (V) | 5.6-42.0 |
| Output Wattage Range (W) | 1.96-14.7 |
| Dimmability | Leading/Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 80 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|--------|
| Casing length (in) | 5.33 |
| Casing width (in) | 1.67 |
| Casing height (in) | 1.32 |
| Mounting Dims (in) | 2.0 |
| Weight (lb) | 0.75 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 6.0 |
| Output wire length (in) | 6.0 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|-----------|
| Casing length (in) | 7.80 |
| Casing width (in) | 1.73 |
| Casing height (in) | 1.18 |
| Mounting Dims (in) | 7.48x1.34 |
| Weight (lb) | 0.75 |
| Lead Exit Type | Side |
| Input wire length (in) | 6.3 |
| Output wire length (in) | 10.6 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|--------|
| Casing length (in) | 7.40 |
| Casing width (in) | 1.73 |
| Casing height (in) | 1.22 |
| Mounting Dims (in) | 2.0 |
| Weight (lb) | 0.75 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 7.1 |
| Output wire length (in) | 7.1 |

LED Drivers - Constant Current

LED Drivers and Halogen Transformers

66887 –

Constant Current, Class 2 Compliance

26W LED Driver. 500mA. LE/TE Dimming.

| General characteristics | |
|------------------------------|-----------------------|
| Input Voltage (V) | 120 |
| Input Frequency (Hz) | 60 |
| Efficiency (%) | 76 |
| Output Type | DC |
| Output Current (mA) | 500 |
| Output Voltage Range (V) | 5.6-42.0 |
| Output Wattage Range (W) | 2.8-21.0 |
| Dimmability | Leading/Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 80 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|-----------|
| Casing length (in) | 7.80 |
| Casing width (in) | 1.73 |
| Casing height (in) | 1.18 |
| Mounting Dims (in) | 7.48x1.34 |
| Weight (lb) | 0.75 |
| Lead Exit Type | Side |
| Input wire length (in) | 6.3 |
| Output wire length (in) | 10.6 |

66898 –

Constant Current, Class 2 Compliance

36W LED Driver. 700mA. LE/TE Dimming.

| General characteristics | |
|------------------------------|-----------------------|
| Input Voltage (V) | 120 |
| Input Frequency (Hz) | 60 |
| Efficiency (%) | 76 |
| Output Type | DC |
| Output Current (mA) | 700 |
| Output Voltage Range (V) | 5.6-42.0 |
| Output Wattage Range (W) | 3.92-29.4 |
| Dimmability | Leading/Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 80 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|-----------|
| Casing length (in) | 7.80 |
| Casing width (in) | 1.73 |
| Casing height (in) | 1.18 |
| Mounting Dims (in) | 7.48x1.34 |
| Weight (lb) | 0.75 |
| Lead Exit Type | Side |
| Input wire length (in) | 6.3 |
| Output wire length (in) | 10.6 |

66899 –

Constant Current, Class 2 Compliance

36W LED Driver. 700mA. LE/TE Dimming. Bottom Feed.

| General characteristics | |
|------------------------------|-----------------------|
| Input Voltage (V) | 120 |
| Input Frequency (Hz) | 60 |
| Efficiency (%) | 76 |
| Output Type | DC |
| Output Current (mA) | 700 |
| Output Voltage Range (V) | 5.6-42.0 |
| Output Wattage Range (W) | 3.92-29.4 |
| Dimmability | Leading/Trailing Edge |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 80 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|--------|
| Casing length (in) | 7.40 |
| Casing width (in) | 1.73 |
| Casing height (in) | 1.22 |
| Mounting Dims (in) | 2.0 |
| Weight (lb) | 0.75 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 7.1 |
| Output wire length (in) | 7.1 |

LED Drivers - Constant Current

LED Drivers and Halogen Transformers

93861 –

Constant Current, Class 2 Compliance

30W LED Selectable Driver. 700/1400 mA. 0-10V. Bottom Feed.

| General characteristics | |
|------------------------------|--------------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | >85 |
| Output Type | DC |
| Output Current (mA) | 700 and 1400 |
| Output Voltage Range (V) | 3-43 |
| Output Wattage Range (W) | 30 |
| Dimmability | 0-10V |
| Ambient Temperature min (°C) | -20 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 75 |

93862 –

Constant Current, Class 2 Compliance

30W LED Selectable Driver. 700/1400 mA. 0-10V.

| General characteristics | |
|------------------------------|--------------|
| Input Voltage (V) | 120-277 |
| Input Frequency (Hz) | 50-60 |
| Efficiency (%) | >85 |
| Output Type | DC |
| Output Current (mA) | 700 and 1400 |
| Output Voltage Range (V) | 3-43 |
| Output Wattage Range (W) | 30 |
| Dimmability | 0-10 |
| Ambient Temperature min (°C) | -20 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 75 |

| Dimensions | |
|---|--------|
| Wiring diagram – see example D on page 19-30 | |
| Casing length (in) | 3.74 |
| Casing width (in) | 1.75 |
| Casing height (in) | 1.18 |
| Mounting Dims (in) | |
| Weight (lb) | 0.65 |
| Lead Exit Type | Bottom |
| Input wire length (in) | 8.65 |
| Output wire length (in) | 8.65 |

| Dimensions | |
|---|------|
| Wiring diagram – see example D on page 19-30 | |
| Casing length (in) | 3.74 |
| Casing width (in) | 1.75 |
| Casing height (in) | 1.18 |
| Mounting Dims (in) | |
| Weight (lb) | 0.65 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.65 |
| Output wire length (in) | 8.65 |

LED Drivers - Constant Voltage

LED Drivers and Halogen Transformers

66908 –

Constant Voltage, Class 2 Compliance

10W LED Driver. 12V. Non-Dimming. Terminal Blocks.

| General characteristics | |
|------------------------------|----------|
| Input voltage | 120-240 |
| Input frequency | 50-60 |
| Efficiency (%) | 79 |
| Output Type | DC |
| Output current (mA) | 830 |
| Output current range (mA) | 10-830 |
| Output voltage (V) | 12 |
| Output Wattage Range (W) | 1.0-11.0 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example B on page 19-30

| | |
|-------------------------|-----------|
| Casing length (in) | 3.94 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.05 |
| Mounting Dims (in) | 3.54x1.18 |
| Weight (lb) | 0.21 |
| Lead Exit Type | Terminals |
| Input wire length (in) | - |
| Output wire length (in) | - |

66910 –

Constant Voltage, Class 2 Compliance

10W LED Driver. 24V. Non-Dimming. Terminal Blocks.

| General characteristics | |
|------------------------------|----------|
| Input voltage | 120-240 |
| Input frequency | 50-60 |
| Efficiency (%) | 80 |
| Output Type | DC |
| Output current (mA) | 410 |
| Output current range (mA) | 10-410 |
| Output voltage (V) | 24 |
| Output Wattage Range (W) | 1.0-10.8 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example B on page 19-30

| | |
|-------------------------|-----------|
| Casing length (in) | 3.94 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.05 |
| Mounting Dims (in) | 3.54x1.18 |
| Weight (lb) | 0.21 |
| Lead Exit Type | Terminals |
| Input wire length (in) | - |
| Output wire length (in) | - |

LED Drivers - Constant Voltage

LED Drivers and Halogen Transformers

66912 –

Constant Voltage, Class 2 Compliance

10W LED Driver. 24V. Non-Dimming. Plug-In.

| General characteristics | |
|------------------------------|----------|
| Input voltage | 120 |
| Input frequency | 50-60 |
| Efficiency (%) | 80 |
| Output Type | DC |
| Output current (mA) | 410 |
| Output current range (mA) | 10-410 |
| Output voltage (V) | 24 |
| Output Wattage Range (W) | 1.0-10.8 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | - |

66913 –

Constant Voltage, Class 2 Compliance

25W LED Driver. 12V. Non-Dimming. Terminal Blocks.

| General characteristics | |
|------------------------------|----------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 82 |
| Output Type | DC |
| Output current (mA) | 2000 |
| Output current range (mA) | 10-2000 |
| Output voltage (V) | 12 |
| Output Wattage Range (W) | 1.0-28.0 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example C on page 19-30

| | |
|-------------------------|---------|
| Casing length (in) | 3.15 |
| Casing width (in) | 1.50 |
| Casing height (in) | 0.95 |
| Mounting Dims (in) | - |
| Weight (lb) | 0.53 |
| Lead Exit Type | Plug-In |
| Input wire length (in) | - |
| Output wire length (in) | 120 |

Dimensions

Wiring diagram – see example B on page 19-30

| | |
|-------------------------|-----------|
| Casing length (in) | 6.22 |
| Casing width (in) | 1.77 |
| Casing height (in) | 1.26 |
| Mounting Dims (in) | 5.35 |
| Weight (lb) | 0.59 |
| Lead Exit Type | Terminals |
| Input wire length (in) | - |
| Output wire length (in) | - |

LED Drivers - Constant Voltage

LED Drivers and Halogen Transformers

66914 –

Constant Voltage, Class 2 Compliance

25W LED Driver. 12V. Non-Dimming.

| General characteristics | |
|------------------------------|----------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 82 |
| Output Type | DC |
| Output current (mA) | 2000 |
| Output current range (mA) | 100-2000 |
| Output voltage (V) | 12 |
| Output Wattage Range (W) | 1.0-28.0 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.02 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.20 |
| Mounting Dims (in) | 5.51 |
| Weight (lb) | 0.64 |
| Lead Exit Type | Side |
| Input wire length (in) | 9.8 |
| Output wire length (in) | 9.8 |

66915 –

Constant Voltage, Class 2 Compliance

25W LED Driver. 12V. Non-Dimming. Signage.

| General characteristics | |
|------------------------------|----------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 82 |
| Output Type | DC |
| Output current (mA) | 2000 |
| Output current range (mA) | 100-2000 |
| Output voltage (V) | 12 |
| Output Wattage Range (W) | 1.0-28.0 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.02 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.20 |
| Mounting Dims (in) | 5.51 |
| Weight (lb) | 0.64 |
| Lead Exit Type | Side |
| Input wire length (in) | 9.8 |
| Output wire length (in) | 9.8 |

LED Drivers - Constant Voltage

LED Drivers and Halogen Transformers

66919 –

Constant Voltage, Class 2 Compliance

25W LED Driver. 24V. Non-Dimming. Terminal Blocks.

General characteristics

| | |
|------------------------------|---------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 84 |
| Output Type | DC |
| Output current (mA) | 1000 |
| Output current range (mA) | - |
| Output voltage (V) | 24 |
| Output Wattage Range (W) | 0-24.6 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example B on page 19-30

| | |
|-------------------------|-----------|
| Casing length (in) | 6.22 |
| Casing width (in) | 1.77 |
| Casing height (in) | 1.26 |
| Mounting Dims (in) | 5.35 |
| Weight (lb) | 0.59 |
| Lead Exit Type | Terminals |
| Input wire length (in) | - |
| Output wire length (in) | - |

66921 –

Constant Voltage, Class 2 Compliance

25W LED Driver. 24V. Non-Dimming.

General characteristics

| | |
|------------------------------|---------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 84 |
| Output Type | DC |
| Output current (mA) | 1000 |
| Output current range (mA) | - |
| Output voltage (V) | 24 |
| Output Wattage Range (W) | 0-24.6 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.02 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.20 |
| Mounting Dims (in) | 5.51 |
| Weight (lb) | 0.64 |
| Lead Exit Type | Side |
| Input wire length (in) | 18.5 |
| Output wire length (in) | 18.5 |

66922 –

Constant Voltage, Class 2 Compliance

25W LED Driver. 24V. Non-Dimming. Signage.

General characteristics

| | |
|------------------------------|---------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 84 |
| Output Type | DC |
| Output current (mA) | 1000 |
| Output current range (mA) | - |
| Output voltage (V) | 24 |
| Output Wattage Range (W) | 0-24.6 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|------|
| Casing length (in) | 6.02 |
| Casing width (in) | 1.57 |
| Casing height (in) | 1.20 |
| Mounting Dims (in) | 5.51 |
| Weight (lb) | 0.64 |
| Lead Exit Type | Side |
| Input wire length (in) | 18.5 |
| Output wire length (in) | 18.5 |

LED Drivers - Constant Voltage

LED Drivers and Halogen Transformers

66923 –

Constant Voltage, Class 2 Compliance

60W LED Driver. 12V. Non-Dimming.

| General characteristics | |
|------------------------------|---------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 85 |
| Output Type | DC |
| Output current (mA) | 5000 |
| Output current range (mA) | - |
| Output voltage (V) | 12.3 |
| Output Wattage Range (W) | 0-67.5 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 38 |
| Case Temperature (°C) | 90 |

66925 –

Constant Voltage, Class 2 Compliance

60W LED Driver. 12V. Non-Dimming. Signage.

| General characteristics | |
|------------------------------|---------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 85 |
| Output Type | DC |
| Output current (mA) | 5000 |
| Output current range (mA) | - |
| Output voltage (V) | 12.3 |
| Output Wattage Range (W) | 0-67.5 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 38 |
| Case Temperature (°C) | 90 |

68660 –

Constant Voltage, Class 2 Compliance

60W LED Driver. 12V. Non-Dimming. White.

| General characteristics | |
|------------------------------|---------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 85 |
| Output Type | DC |
| Output current (mA) | 5000 |
| Output current range (mA) | - |
| Output voltage (V) | 12.3 |
| Output Wattage Range (W) | 0-67.5 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 38 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|-------------|
| Casing length (in) | 7.80 |
| Casing width (in) | 1.73 |
| Casing height (in) | 1.57 |
| Mounting Dims (in) | 7.48 x 1.34 |
| Weight (lb) | 1.29 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.5 |
| Output wire length (in) | 8.5 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|-------------|
| Casing length (in) | 7.80 |
| Casing width (in) | 1.73 |
| Casing height (in) | 1.57 |
| Mounting Dims (in) | 7.48 x 1.34 |
| Weight (lb) | 1.29 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.5 |
| Output wire length (in) | 8.5 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|-------------|
| Casing length (in) | 7.80 |
| Casing width (in) | 1.73 |
| Casing height (in) | 1.57 |
| Mounting Dims (in) | 7.48 x 1.34 |
| Weight (lb) | 1.29 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.5 |
| Output wire length (in) | 8.5 |

LED Drivers - Constant Voltage

LED Drivers and Halogen Transformers

66926 –

Constant Voltage, Class 2 Compliance

60W LED Driver. 24V. Non-Dimming.

| General characteristics | |
|------------------------------|---------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 87 |
| Output Type | DC |
| Output current (mA) | 2500 |
| Output current range (mA) | - |
| Output voltage (V) | 24.5 |
| Output Wattage Range (W) | 0-66.0 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

66927 –

Constant Voltage, Class 2 Compliance

60W LED Driver. 24V. Non-Dimming. White.

| General characteristics | |
|------------------------------|---------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 87 |
| Output Type | DC |
| Output current (mA) | 2500 |
| Output current range (mA) | - |
| Output voltage (V) | 24.5 |
| Output Wattage Range (W) | 0-66.0 |
| Ambient Temperature min (°C) | -25 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|-------------|
| Casing length (in) | 7.80 |
| Casing width (in) | 1.73 |
| Casing height (in) | 1.57 |
| Mounting Dims (in) | 7.48 x 1.34 |
| Weight (lb) | 1.29 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.5 |
| Output wire length (in) | 8.5 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|-------------|
| Casing length (in) | 7.80 |
| Casing width (in) | 1.73 |
| Casing height (in) | 1.57 |
| Mounting Dims (in) | 7.48 x 1.34 |
| Weight (lb) | 1.29 |
| Lead Exit Type | Side |
| Input wire length (in) | 8.5 |
| Output wire length (in) | 8.5 |

LED Drivers - Constant Voltage

LED Drivers and Halogen Transformers

66930 –

Constant Voltage, Class 2 Compliance

100W CV LED Driver. 12V. Potted. Non-Dimming.

| General characteristics | |
|------------------------------|---------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 81 |
| Output Type | DC |
| Output current (mA) | 8300 |
| Output current range (mA) | - |
| Output voltage (V) | 12.3 |
| Output Wattage Range (W) | 0-112.0 |
| Ambient Temperature min (°C) | -30 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|-----------|
| Casing length (in) | 9.05 |
| Casing width (in) | 2.60 |
| Casing height (in) | 1.65 |
| Mounting Dims (in) | 8.66x0.95 |
| Weight (lb) | 2.27 |
| Lead Exit Type | Side |
| Input wire length (in) | 18.7 |
| Output wire length (in) | 18.7 |

66931 –

Constant Voltage, Class 2 Compliance

100W CV LED Driver. 24V. Potted. Non-Dimming.

| General characteristics | |
|------------------------------|---------|
| Input voltage | 120-277 |
| Input frequency | 50-60 |
| Efficiency (%) | 83 |
| Output Type | DC |
| Output current (mA) | 4200 |
| Output current range (mA) | 42-4200 |
| Output voltage (V) | 24.6 |
| Output Wattage Range (W) | 0-111.0 |
| Ambient Temperature min (°C) | -30 |
| Ambient Temperature max (°C) | 50 |
| Case Temperature (°C) | 90 |

Dimensions

Wiring diagram – see example K on page 19-30

| | |
|-------------------------|-----------|
| Casing length (in) | 9.05 |
| Casing width (in) | 2.60 |
| Casing height (in) | 1.65 |
| Mounting Dims (in) | 8.66x0.95 |
| Weight (lb) | 2.27 |
| Lead Exit Type | Side |
| Input wire length (in) | 18.7 |
| Output wire length (in) | 18.7 |

Wiring Diagrams

LED Drivers and Halogen Transformers

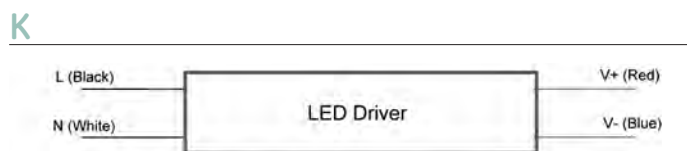
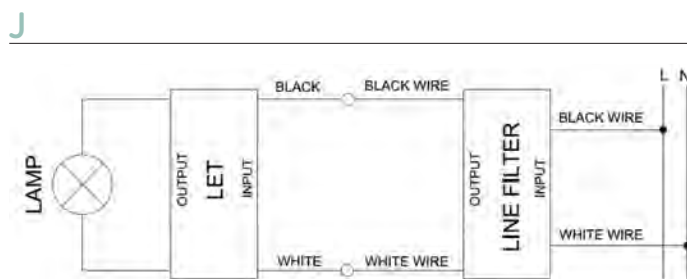
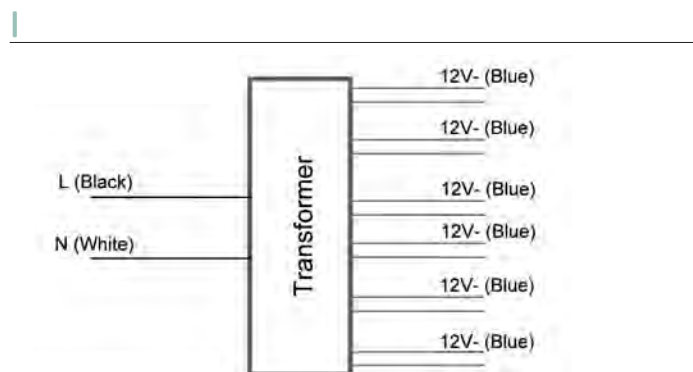
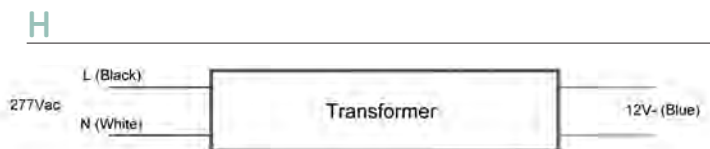
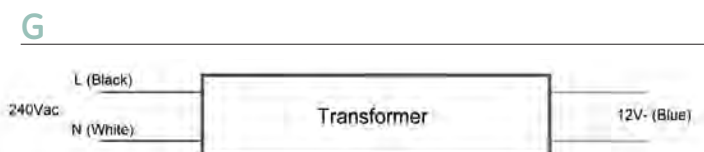
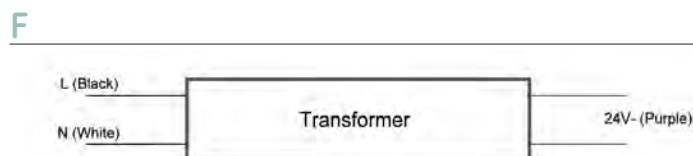
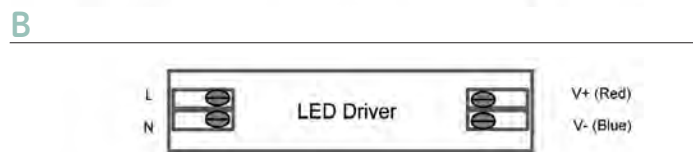
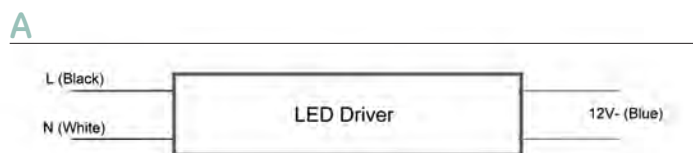


Table of Contents

LED Systems

LED Refrigerated Display Lighting

| | |
|--|-------------|
| Immersion™ RV60 LED Refrigerated Display Lighting for Vertical Cases..... | 20-3 |
| Immersion™ RH30 LED Refrigerated Display Lighting for Horizontal Cases..... | 20-4 |
| Lumination™ LED Downlights..... | 20-6 |

LED Systems

Product Information

Refrigerated Display Lighting

Immersion™ RV60 LED Refrigerated Display Lighting for Vertical Cases (pg. 20-3)

- Up to 65% energy savings vs. T8 LFL Systems
- Up to 50,000 hour lifetime
- An innovative optic design directs light onto merchandise – where it belongs – instead of wasting it on the glass doors
- Cases achieve higher than average lux levels and up to 80% light uniformity across package facings
- The easily hidden light source eliminates distracting glare and light spillage, making aisles feel more spacious and your customer more comfortable



Immersion™ RH30 LED Refrigerated Display Lighting for Horizontal Cases (pg. 20-4)

- Up to 72% energy savings vs. T8 LFL Systems
- Up to 50,000 hour lifetime
- Our new Visual Comfort Lens™ diffuses the light, inhibiting LED hot spots from appearing on merchandise
- Canopy and undershelf lighting solutions work together to produce seamless uniform illumination
- An adjustable clip allows for rotation of the light bar, ensuring the light will angle precisely onto merchandise and bring out the full vibrancy of product packaging
- The slim profile is more discreet than fluorescent tubes, making sure customers see well-lit products and not the light source

Lumination™ LED Downlights (pg. 20-6)

The Lumination RS LED downlights install in just minutes into most four or six-inch recessed housings, making them ideal for use in both retrofit and new construction applications. The GE LED downlight delivers 700 or 1000 lumens at 70+ lumens per watt, bringing significant energy savings to residential, light commercial, and hospitality environments. All downlights in the RS family have instant-on, standard 120V dimming, and a uniform lit appearance, delivering premium performance in a compact, economical package.

- 5 years, limited systems warranty
- ENERGY STAR® qualified
- 35,000 hour life rating



LED Refrigerated Display Lighting LED Systems

| Product Code (Single) | Product Code (10-Pack) | Description | Item | Color Temp (K)* | Light Output (Lumens)** | LPW | Lumens Per ft. (m) | Life (Hours) | CRI (Min) | Power (Watts)*** | Length (L) | Width (W) | Depth (D) |
|-----------------------|------------------------|-------------|------|-----------------|-------------------------|-----|--------------------|--------------|-----------|------------------|------------|-----------|-----------|
|-----------------------|------------------------|-------------|------|-----------------|-------------------------|-----|--------------------|--------------|-----------|------------------|------------|-----------|-----------|

LED Refrigerated Display Lighting

Immersion RV60 Series

| | | | | | | | | | | | | | | | |
|-------|-------|-----------------------|---------------------------|---------------------------|------|------|-----------|-----------|--------|-----|-----------|---------------|---------------|-----------|-----------|
| 5000K | 85742 | 85745 | GELT604850CTR-SY/ SB | 48" LED Light - Center | 5000 | 896 | 80 | 222 (727) | 50,000 | 80 | 11.2 | (in) (mm) | 48.53 1232.6 | 2.58 65.5 | 1.28 32.5 |
| | 85744 | 85747 | GELT604850EDL-SY/ SB | 48" LED Light - Left End | 5000 | 559 | 81 | 138 (454) | 50,000 | 80 | 6.9 | (in) (mm) | 48.53 1232.6 | 2.09 53.1 | 1.59 40.4 |
| | 85743 | 85746 | GELT604850EDR-SY/ SB | 48" LED Light - Right End | 5000 | 559 | 81 | 138 (454) | 50,000 | 80 | 6.9 | (in) (mm) | 48.53 1232.6 | 2.09 53.1 | 1.59 40.4 |
| | 85699 | 85702 | GELT606050CTR-SY / SB | 60" LED Light - Center | 5000 | 1020 | 73 | 203 (665) | 50,000 | 80 | 13.9 | (in) (mm) | 60.36 1533.1 | 2.58 65.5 | 1.28 32.5 |
| | 85701 | 85704 | GELT606050EDL-SY / SB | 60" LED Light - Left End | 5000 | 569 | 81 | 113 (371) | 50,000 | 80 | 7.0 | (in) (mm) | 60.36 1533.1 | 2.09 53.1 | 1.59 40.4 |
| | 85700 | 85703 | GELT606050EDR-SY / SB | 60" LED Light - Right End | 5000 | 569 | 81 | 113 (371) | 50,000 | 80 | 7.0 | (in) (mm) | 60.36 1533.1 | 2.09 53.1 | 1.59 40.4 |
| | 85717 | 85722 | GELT606750CTR-SY / SB | 67" LED Light - Center | 5000 | 1227 | 80 | 218 (716) | 50,000 | 80 | 15.4 | (in) (mm) | 67.47 1713.76 | 2.58 65.5 | 1.28 32.5 |
| 4000K | 85721 | 85724 | GELT606750EDL-SY / SB | 67" LED Light - Left End | 5000 | 745 | 85 | 133 (435) | 50,000 | 80 | 8.8 | (in) (mm) | 67.47 1713.76 | 2.09 53.1 | 1.59 40.4 |
| | 85720 | 85723 | GELT606750EDR-SY / SB | 67" LED Light - Right End | 5000 | 745 | 85 | 133 (435) | 50,000 | 80 | 8.8 | (in) (mm) | 67.47 1713.76 | 2.09 53.1 | 1.59 40.4 |
| | 85748 | 85751 | GELT604840CTR-SY/ SB | 48" LED Light - Center | 4000 | 844 | 76 | 209 (685) | 50,000 | 80 | 11.2 | (in) (mm) | 48.53 1232.6 | 2.58 65.5 | 1.28 32.5 |
| | 85750 | 85753 | GELT604840EDL-SY/ SB | 48" LED Light - Left End | 4000 | 534 | 77 | 132 (433) | 50,000 | 80 | 6.9 | (in) (mm) | 48.53 1232.6 | 2.09 53.1 | 1.59 40.4 |
| | 85749 | 85752 | GELT604840EDR-SY/ SB | 48" LED Light - Right End | 4000 | 534 | 77 | 132 (433) | 50,000 | 80 | 6.9 | (in) (mm) | 48.53 1232.6 | 2.09 53.1 | 1.59 40.4 |
| | 85705 | 85708 | GELT606040CTR-SY / SB | 60" LED Light - Center | 4000 | 1023 | 74 | 203 (667) | 50,000 | 80 | 13.9 | (in) (mm) | 60.36 1533.1 | 2.58 65.5 | 1.28 32.5 |
| | 85707 | 85710 | GELT606040EDL-SY / SB | 60" LED Light - Left End | 4000 | 577 | 82 | 115 (376) | 50,000 | 80 | 7.0 | (in) (mm) | 60.36 1533.1 | 2.09 53.1 | 1.59 40.4 |
| | 85706 | 85709 | GELT606040EDR-SY / SB | 60" LED Light - Right End | 4000 | 577 | 82 | 115 (376) | 50,000 | 80 | 7.0 | (in) (mm) | 60.36 1533.1 | 2.09 53.1 | 1.59 40.4 |
| | 85725 | 85728 | GELT606740CTR-SY / SB | 67" LED Light - Center | 4000 | 1142 | 74 | 203 (666) | 50,000 | 80 | 15.4 | (in) (mm) | 67.47 1713.76 | 2.58 65.5 | 1.28 32.5 |
| | 85727 | 85735 | GELT606740EDL-SY / SB | 67" LED Light - Left End | 4000 | 683 | 78 | 121 (399) | 50,000 | 80 | 8.8 | (in) (mm) | 67.47 1713.76 | 2.09 53.1 | 1.59 40.4 |
| 85726 | 85734 | GELT606740EDR-SY / SB | 67" LED Light - Right End | 4000 | 683 | 78 | 121 (399) | 50,000 | 80 | 8.8 | (in) (mm) | 67.47 1713.76 | 2.09 53.1 | 1.59 40.4 | |
| 3500K | 85754 | 85757 | GELT604835CTR-SY/ SB | 48" LED Light - Center | 3500 | 813 | 73 | 201 (660) | 50,000 | 80 | 11.2 | (in) (mm) | 48.53 1232.6 | 2.58 65.5 | 1.28 32.5 |
| | 85756 | 85759 | GELT604835EDL-SY/ SB | 48" LED Light - Left End | 3500 | 500 | 72 | 124 (406) | 50,000 | 80 | 6.9 | (in) (mm) | 48.53 1232.6 | 2.09 53.1 | 1.59 40.4 |
| | 85755 | 85758 | GELT604835EDR-SY/ SB | 48" LED Light - Right End | 3500 | 500 | 72 | 124 (406) | 50,000 | 80 | 6.9 | (in) (mm) | 48.53 1232.6 | 2.09 53.1 | 1.59 40.4 |
| | 85711 | 85714 | GELT606035CTR-SY / SB | 60" LED Light - Center | 3500 | 908 | 65 | 181 (592) | 50,000 | 80 | 13.9 | (in) (mm) | 60.36 1533.1 | 2.58 65.5 | 1.28 32.5 |
| | 85713 | 85716 | GELT606035EDL-SY / SB | 60" LED Light - Left End | 3500 | 516 | 74 | 103 (337) | 50,000 | 80 | 7.0 | (in) (mm) | 60.36 1533.1 | 2.09 53.1 | 1.59 40.4 |
| | 85712 | 85715 | GELT606035EDR-SY / SB | 60" LED Light - Right End | 3500 | 516 | 74 | 103 (337) | 50,000 | 80 | 7.0 | (in) (mm) | 60.36 1533.1 | 2.09 53.1 | 1.59 40.4 |
| | 85736 | 85739 | GELT606735CTR-SY / SB | 67" LED Light - Center | 3500 | 1105 | 72 | 197 (645) | 50,000 | 80 | 15.4 | (in) (mm) | 67.47 1713.76 | 2.58 65.5 | 1.28 32.5 |
| 85738 | 85741 | GELT606735EDL-SY / SB | 67" LED Light - Left End | 3500 | 667 | 76 | 119 (389) | 50,000 | 80 | 8.8 | (in) (mm) | 67.47 1713.76 | 2.09 53.1 | 1.59 40.4 | |
| 85737 | 85740 | GELT606735EDR-SY / SB | 67" LED Light - Right End | 3500 | 667 | 76 | 119 (389) | 50,000 | 80 | 8.8 | (in) (mm) | 67.47 1713.76 | 2.09 53.1 | 1.59 40.4 | |

* Color temp (CCT) +/- 10%

**Based on typical in-store conditions.

***System AC watts based on typical in-store conditions.

| Product Code | Description | Item | Length (L) | Width (W) | Depth (D) |
|--------------|-------------|------|------------|-----------|-----------|
|--------------|-------------|------|------------|-----------|-----------|

Accessories

LED Drivers

| | | | | | | |
|-------|------------------|-----------------|------|-------|------|-------|
| 13798 | GEP56100NCCON-SY | 100W LED Driver | (in) | 10.75 | 1.65 | 1.1 |
| | | | (mm) | 273 | 42 | 28 |
| 68595 | GEP56500NCMUL-SY | 50W LED Driver | (in) | 10.75 | 1.65 | 1.1 |
| | | | (mm) | 273 | 42 | 28 |
| 79814 | GE-CV-4060CTR | Wire Cover | (in) | 1.77 | 1.42 | 1.19 |
| | | | (mm) | 45.01 | 36 | 30.23 |

LED Refrigerated Display Lighting

LED Systems

| Product Code | Description | Package Quantity | Item | Color Temp (K)** | Light Output (Lumens)* | LPW | Lumens Per ft | Life (Hours) | CRI (Min) | Power (Watts)* | Length (L) | Width (W) | Depth (D) |
|--------------|-------------|------------------|------|------------------|------------------------|-----|---------------|--------------|-----------|----------------|------------|-----------|-----------|
|--------------|-------------|------------------|------|------------------|------------------------|-----|---------------|--------------|-----------|----------------|------------|-----------|-----------|

LED Refrigerated Display Lighting

Immersion RH30 LED Standard Series

| | | | | | | | | | | | | | | | |
|-------|-------|----------------|----|------------------|------|------|----|-----|--------|----|------|------|--------|------|------|
| 5000K | 69644 | 48" Canopy | 1 | GEMT304850CAN-SY | 5000 | 1440 | 67 | 360 | 50,000 | 80 | 21.5 | (in) | 45.0 | 1.3 | 0.9 |
| | | | 10 | GEMT304850CAN-SB | | | | | | | | (mm) | 1144.0 | 33.7 | 23.2 |
| | 69650 | 48" Undershelf | 1 | GEMT304850USL-SY | 5000 | 500 | 70 | 125 | 50,000 | 80 | 7.1 | (in) | 45.0 | 1.3 | 0.9 |
| | | | 10 | GEMT304850USL-SB | | | | | | | | (mm) | 1144.0 | 33.7 | 23.2 |
| | 69642 | 36" Canopy | 1 | GEMT303650CAN-SY | 5000 | 1078 | 68 | 359 | 50,000 | 80 | 15.9 | (in) | 34.4 | 1.3 | 0.9 |
| | | | 10 | GEMT303650CAN-SB | | | | | | | | (mm) | 874.0 | 33.7 | 23.2 |
| | 69648 | 36" Undershelf | 1 | GEMT303650USL-SY | 5000 | 371 | 69 | 124 | 50,000 | 80 | 5.4 | (in) | 34.4 | 1.3 | 0.9 |
| | | | 10 | GEMT303650USL-SB | | | | | | | | (mm) | 874.0 | 33.7 | 23.2 |
| | 69640 | 24" Canopy | 1 | GEMT302450CAN-SY | 5000 | 737 | 71 | 369 | 50,000 | 80 | 10.4 | (in) | 23.8 | 1.3 | 0.9 |
| | | | 10 | GEMT302450CAN-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 |
| | 69646 | 24" Undershelf | 1 | GEMT302450USL-SY | 5000 | 245 | 68 | 123 | 50,000 | 80 | 3.6 | (in) | 23.8 | 1.3 | 0.9 |
| | | | 10 | GEMT302450USL-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 |
| 4000K | 69662 | 48" Canopy | 1 | GEMT304840CAN-SY | 4000 | 1400 | 65 | 350 | 50,000 | 80 | 21.5 | (in) | 45.0 | 1.3 | 0.9 |
| | | | 10 | GEMT304840CAN-SB | | | | | | | | (mm) | 1144.0 | 33.7 | 23.2 |
| | 69668 | 48" Undershelf | 1 | GEMT304840USL-SY | 4000 | 560 | 79 | 140 | 50,000 | 80 | 7.1 | (in) | 45.0 | 1.3 | 0.9 |
| | | | 10 | GEMT304840USL-SB | | | | | | | | (mm) | 1144.0 | 33.7 | 23.2 |
| | 69660 | 36" Canopy | 1 | GEMT303640CAN-SY | 4000 | 1020 | 64 | 340 | 50,000 | 80 | 15.9 | (in) | 34.4 | 1.3 | 0.9 |
| | | | 10 | GEMT303640CAN-SB | | | | | | | | (mm) | 874.0 | 33.7 | 23.2 |
| | 69666 | 36" Undershelf | 1 | GEMT303640USL-SY | 4000 | 420 | 78 | 140 | 50,000 | 80 | 5.4 | (in) | 34.4 | 1.3 | 0.9 |
| | | | 10 | GEMT303640USL-SB | | | | | | | | (mm) | 874.0 | 33.7 | 23.2 |
| | 69652 | 24" Canopy | 1 | GEMT302440CAN-SY | 4000 | 773 | 74 | 387 | 50,000 | 80 | 10.4 | (in) | 23.8 | 1.3 | 0.9 |
| | | | 10 | GEMT302440CAN-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 |
| | 69664 | 24" Undershelf | 1 | GEMT302440USL-SY | 4000 | 240 | 67 | 120 | 50,000 | 80 | 3.6 | (in) | 23.8 | 1.3 | 0.9 |
| | | | 10 | GEMT302440USL-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 |
| 3500K | 69713 | 48" Canopy | 1 | GEMT304835CAN-SY | 3500 | 1300 | 60 | 325 | 50,000 | 80 | 21.5 | (in) | 45.0 | 1.3 | 0.9 |
| | | | 10 | GEMT304835CAN-SB | | | | | | | | (mm) | 1144.0 | 33.7 | 23.2 |
| | 69719 | 48" Undershelf | 1 | GEMT304835USL-SY | 3500 | 515 | 73 | 129 | 50,000 | 80 | 7.1 | (in) | 45.0 | 1.3 | 0.9 |
| | | | 10 | GEMT304835USL-SB | | | | | | | | (mm) | 1144.0 | 33.7 | 23.2 |
| | 69711 | 36" Canopy | 1 | GEMT303635CAN-SY | 3500 | 960 | 60 | 320 | 50,000 | 80 | 15.9 | (in) | 34.4 | 1.3 | 0.9 |
| | | | 10 | GEMT303635CAN-SB | | | | | | | | (mm) | 874.0 | 33.7 | 23.2 |
| | 69717 | 36" Undershelf | 1 | GEMT303635USL-SY | 3500 | 385 | 71 | 128 | 50,000 | 80 | 5.4 | (in) | 34.4 | 1.3 | 0.9 |
| | | | 10 | GEMT303635USL-SB | | | | | | | | (mm) | 874.0 | 33.7 | 23.2 |
| | 69709 | 24" Canopy | 1 | GEMT302435CAN-SY | 3500 | 738 | 71 | 369 | 50,000 | 80 | 10.4 | (in) | 23.8 | 1.3 | 0.9 |
| | | | 10 | GEMT302435CAN-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 |
| | 69715 | 24" Undershelf | 1 | GEMT302435USL-SY | 3500 | 250 | 69 | 125 | 50,000 | 80 | 3.6 | (in) | 23.8 | 1.3 | 0.9 |
| | | | 10 | GEMT302435USL-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 |
| 3000K | 69687 | 48" Canopy | 1 | GEMT304830CAN-SY | 3000 | 1200 | 56 | 300 | 50,000 | 80 | 21.5 | (in) | 45.0 | 1.3 | 0.9 |
| | | | 10 | GEMT304830CAN-SB | | | | | | | | (mm) | 1144.0 | 33.7 | 23.2 |
| | 69695 | 48" Undershelf | 1 | GEMT304830USL-SY | 3000 | 450 | 63 | 113 | 50,000 | 80 | 7.1 | (in) | 45.0 | 1.3 | 0.9 |
| | | | 10 | GEMT304830USL-SB | | | | | | | | (mm) | 1144.0 | 33.7 | 23.2 |
| | 69685 | 36" Canopy | 1 | GEMT303630CAN-SY | 3000 | 900 | 57 | 300 | 50,000 | 80 | 15.9 | (in) | 34.4 | 1.3 | 0.9 |
| | | | 10 | GEMT303630CAN-SB | | | | | | | | (mm) | 874.0 | 33.7 | 23.2 |
| | 69691 | 36" Undershelf | 1 | GEMT303630USL-SY | 3000 | 350 | 65 | 117 | 50,000 | 80 | 5.4 | (in) | 34.4 | 1.3 | 0.9 |
| | | | 10 | GEMT303630USL-SB | | | | | | | | (mm) | 874.0 | 33.7 | 23.2 |
| | 69682 | 24" Canopy | 1 | GEMT302430CAN-SY | 3000 | 600 | 58 | 300 | 50,000 | 80 | 10.4 | (in) | 23.8 | 1.3 | 0.9 |
| | | | 10 | GEMT302430CAN-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 |
| | 69689 | 24" Undershelf | 1 | GEMT302430USL-SY | 3000 | 150 | 42 | 75 | 50,000 | 80 | 3.6 | (in) | 23.8 | 1.3 | 0.9 |
| | | | 10 | GEMT302430USL-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 |

*Lumens and DC watts based on typical in-store installed conditions.

**Color temp, lumens, LPW, and watts +/-10%.

LED Refrigerated Display Lighting LED Systems

| Product Code | Description | Package Quantity | Item | Color Temp (K)** | Light Output (Lumens)* | LPW | Lumens Per ft | Life (Hours) | CRI (Min) | Power (Watts)* | Length (L) | Width (W) | Depth (D) |
|--------------|-------------|------------------|------|------------------|------------------------|-----|---------------|--------------|-----------|----------------|------------|-----------|-----------|
|--------------|-------------|------------------|------|------------------|------------------------|-----|---------------|--------------|-----------|----------------|------------|-----------|-----------|

LED Refrigerated Display Lighting (continued)

Immersion RH30 LED Premium Series

| | | | | | | | | | | | | | | | | |
|-------|-------|----------------|------------|------------------|------------------|------|-----|-----|--------|--------|------|------|--------|--------|------|------|
| 4000K | 69674 | 48" Canopy | 1 | GEMT314840CAN-SY | 4000 | 937 | 44 | 234 | 50,000 | 75 | 21.5 | (in) | 45.7 | 1.3 | 0.9 | |
| | 69675 | | 10 | GEMT314840CAN-SB | | | | | | | | (mm) | 1160.0 | 33.7 | 23.2 | |
| | 69680 | 48" Undershelf | 1 | GEMT314840USL-SY | 4000 | 357 | 50 | 89 | 50,000 | 75 | 7.1 | (in) | 45.7 | 1.3 | 0.9 | |
| | 69681 | | 10 | GEMT314840USL-SB | | | | | | | | (mm) | 1160.0 | 33.7 | 23.2 | |
| | 69672 | 36" Canopy | 1 | GEMT313640CAN-SY | 4000 | 730 | 46 | 243 | 50,000 | 75 | 15.9 | (in) | 35.0 | 1.3 | 0.9 | |
| | 69673 | | 10 | GEMT313640CAN-SB | | | | | | | | (mm) | 890.0 | 33.7 | 23.2 | |
| | 69678 | 36" Undershelf | 1 | GEMT313640USL-SY | 4000 | 274 | 51 | 91 | 50,000 | 75 | 5.4 | (in) | 35.0 | 1.3 | 0.9 | |
| | 69679 | | 10 | GEMT313640USL-SB | | | | | | | | (mm) | 890.0 | 33.7 | 23.2 | |
| | 69670 | 24" Canopy | 1 | GEMT312440CAN-SY | 4000 | 481 | 46 | 160 | 50,000 | 75 | 10.4 | (in) | 23.8 | 1.3 | 0.9 | |
| | 69671 | | 10 | GEMT312440CAN-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 | |
| | 69676 | 24" Undershelf | 1 | GEMT312440USL-SY | 4000 | 181 | 50 | 60 | 50,000 | 75 | 3.6 | (in) | 23.8 | 1.3 | 0.9 | |
| | 69677 | | 10 | GEMT312440USL-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 | |
| | 3000K | 69701 | 48" Canopy | 1 | GEMT314830CAN-SY | 3000 | 812 | 38 | 203 | 50,000 | 72 | 21.5 | (in) | 45.7 | 1.3 | 0.9 |
| | | 69702 | | 10 | GEMT314830CAN-SB | | | | | | | | (mm) | 1160.0 | 33.7 | 23.2 |
| 69707 | | 48" Undershelf | 1 | GEMT314830USL-SY | 3000 | 320 | 45 | 80 | 50,000 | 72 | 7.1 | (in) | 45.7 | 1.3 | 0.9 | |
| 69708 | | | 10 | GEMT314830USL-SB | | | | | | | | (mm) | 1160.0 | 33.7 | 23.2 | |
| 69699 | | 36" Canopy | 1 | GEMT313630CAN-SY | 3000 | 630 | 40 | 158 | 50,000 | 72 | 15.9 | (in) | 35.0 | 1.3 | 0.9 | |
| 69700 | | | 10 | GEMT313630CAN-SB | | | | | | | | (mm) | 890.0 | 33.7 | 23.2 | |
| 69705 | | 36" Undershelf | 1 | GEMT313630USL-SY | 3000 | 242 | 45 | 61 | 50,000 | 72 | 5.4 | (in) | 35.0 | 1.3 | 0.9 | |
| 69706 | | | 10 | GEMT313630USL-SB | | | | | | | | (mm) | 890.0 | 33.7 | 23.2 | |
| 69697 | | 24" Canopy | 1 | GEMT312430CAN-SY | 3000 | 427 | 41 | 142 | 50,000 | 72 | 10.4 | (in) | 23.8 | 1.3 | 0.9 | |
| 69698 | | | 10 | GEMT312430CAN-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 | |
| 69703 | | 24" Undershelf | 1 | GEMT312430USL-SY | 3000 | 160 | 44 | 53 | 50,000 | 72 | 3.6 | (in) | 23.8 | 1.3 | 0.9 | |
| 69704 | | | 10 | GEMT312430USL-SB | | | | | | | | (mm) | 604.0 | 33.7 | 23.2 | |

*Lumens and DC watts based on typical in-store installed conditions.

**Color temp, lumens, LPW, and watts +/-10%.

| Product Code | Description | Item | Length (L) | Width (W) | Depth (D) |
|--------------|-------------|------|------------|-----------|-----------|
|--------------|-------------|------|------------|-----------|-----------|

Accessories

LED Drivers

| | | | | | | |
|-------|------------------|-----------------|------|-------|------|-----|
| 13798 | GEP56100NCCON-SY | 100W LED Driver | (in) | 10.75 | 1.65 | 1.1 |
| | | | (mm) | 273 | 42 | 28 |
| 68595 | GEP56500NCMUL-SY | 50W LED Driver | (in) | 10.75 | 1.65 | 1.1 |
| | | | (mm) | 273 | 42 | 28 |

Mounting Clips

| | | | | | | |
|-------|-----------------|-----------------------------|------|-------|-------|------|
| 69721 | GEMT3000NCM1-SY | Universal Mounting Clip - L | (in) | 1.058 | 1.024 | 1.18 |
| 69723 | GEMT3000NCM1-SB | | (mm) | 27 | 26 | 29.9 |

Lumination™ LED Downlights

LED Systems

| Product Code | Description | Recessed Can Size | CCT | Base Type | CRI | Lumens | Watts | LPW | Rated Life L70 (Hrs.) | Dimmable | Location Rating | Base Attachment |
|-----------------------------------|------------------|-------------------|-------|-----------|-----|--------|-------|-----|-----------------------|----------|-----------------|-----------------|
| Lumination™ LED Downlights | | | | | | | | | | | | |
| 4-Inch LED Downlights | | | | | | | | | | | | |
| 95853 | LED10RS4/827E26P | 4" | 2700K | E26 | 80 | 700 | 10 | 70 | 35,000 | Yes | Damp | Pigtail |
| 95854 | LED10RS4/830E26P | 4" | 3000K | E26 | 80 | 700 | 10 | 70 | 35,000 | Yes | Damp | Pigtail |
| 95855 | LED10RS4/827GUP | 4" | 2700K | GU24 | 80 | 700 | 10 | 70 | 35,000 | Yes | Damp | Pigtail |
| 95856 | LED10RS4/830GUP | 4" | 3000K | GU24 | 80 | 700 | 10 | 70 | 35,000 | Yes | Damp | Pigtail |
| 6-Inch LED Downlights | | | | | | | | | | | | |
| 85153 | LED10RS6/827E26P | 6" | 2700K | E26 | 80 | 700 | 10 | 70 | 35,000 | Yes | Damp | Pigtail |
| 85160 | LED10RS6/830E26P | 6" | 3000K | E26 | 80 | 700 | 10 | 70 | 35,000 | Yes | Damp | Pigtail |
| 95851 | LED10RS6/827GUP | 6" | 2700K | GU24 | 80 | 700 | 10 | 70 | 35,000 | Yes | Damp | Pigtail |
| 95852 | LED10RS6/830GUP | 6" | 3000K | GU24 | 80 | 700 | 10 | 70 | 35,000 | Yes | Damp | Pigtail |
| 70120 | LED13RS6/827E26P | 6" | 2700K | E26 | 80 | 1,000 | 13 | 75 | 35,000 | Yes | Damp | Pigtail |
| 70122 | LED13RS6/830E26P | 6" | 3000K | E26 | 80 | 1,000 | 13 | 75 | 35,000 | Yes | Damp | Pigtail |
| 70124 | LED13RS6/827GUP | 6" | 2700K | GU26 | 80 | 1,000 | 13 | 75 | 35,000 | Yes | Damp | Pigtail |
| 70127 | LED13RS6/830GUP | 6" | 3000K | GU26 | 80 | 1,000 | 13 | 75 | 35,000 | Yes | Damp | Pigtail |



Table of Contents

Controls

Occupancy Sensors

Ceiling.....21-3

Corner/Wall21-3

Wall Switch21-3

High-Bay Fixture Mount.....21-4

GE Aware™ Photo Sensors21-4

Coverage Diagrams 21-5

Controls

Introduction

The design of the room and the amount of activity happening within the space will determine the level of sensitivity you need in your sensor. GE Aware™ Occupancy Sensors are available in three distinct technologies, so that you can be sure to find the appropriate solution for your space.

Ultrasonic (US)

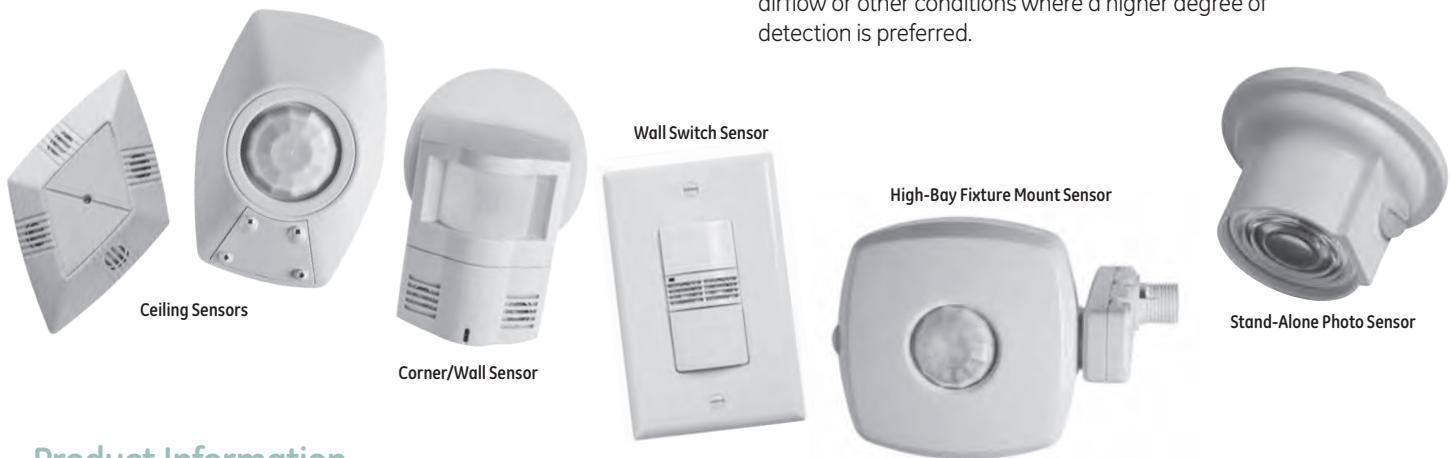
Ultrasonic sensors detect occupancy by emitting a high-frequency signal and interpreting changes in frequency as motion. Ultrasonic sensors do not require a direct line of sight, meaning they can “see” around corners and objects. They are also highly sensitive to motion – even minor hand movement. They are most suitable for open spaces, spaces with obstacles in the sensor’s line of sight, rest-rooms and spaces with hard surfaces.

Passive Infrared (PIR)

Designed to detect motion from a heat-emitting source, PIR sensors switch lights On and Off when a person enters or exits their field of view. They are best for applications that offer a direct line of sight to the source that creates the motion, such as enclosed spaces, areas where the sensor has a view of activity, outdoor areas and warehouse aisles.

Dual Tech (DT)

Dual Tech sensors combine PIR and ultrasonic technology. Lights are only activated when both sensors detect occupancy – eliminating false activation – and require one of the technologies to keep the lights on, significantly reducing the possibility of a false deactivation. They are suited for classrooms, conference rooms, areas with heavy airflow or other conditions where a higher degree of detection is preferred.



Product Information

Occupancy Sensors

Ceiling (pg. 21-3)

- Ultrasonic, Infrared and Dual Tech sensing
- 180- or 360-degree viewing area
- Small, medium or large room options
- Photocell capability
- Form C relay
- Extreme temperature and open air options (max. height 25')

Corner/Wall (pg. 21-3)

- Infrared and Dual Tech sensing
- 180-degree viewing area
- Photocell capability
- Long (hallway) or wide (room) composition
- Form C relay

Wall Switch (pg. 21-3)

- Infrared and Dual Tech sensing
- Line voltage (directly replaces wall switch) or low voltage (for switchpacks or GE LightSweep™)
- Single or dual relay
- Photocell capability
- Five colors available: white, ivory, light almond, gray, black

High-Bay Fixture Mount (pg. 21-4)

- Fixture mount
- Passive Infrared
- Line voltage (120–277V)
- Single and dual relay options
- Optional photocell

GE Aware™ Photo Sensors

Stand-Alone Photo Sensor (pg. 21-4)

- For retrofit applications (indoor use only)

| Product Code | Description | Sensing Technology | Viewing Angle | Coverage Area | Additional Information |
|--------------|-------------|--------------------|---------------|---------------|------------------------|
|--------------|-------------|--------------------|---------------|---------------|------------------------|

Occupancy Sensor

GE Aware™ Ceiling Sensors - Low Voltage

| | | | | | |
|-------|----------------|-----|------|------------------|-----------------|
| 63270 | CIR-05-360-D | PIR | 360° | 500 sq. ft. | with photocell |
| 63272 | CIR-15-360-D | PIR | 360° | 1500 sq. ft. | with photocell |
| 63275 | CUS-05-180 | US | 180° | 500 sq. ft. | |
| 63276 | CUS-05-180-R | US | 180° | 500 sq. ft. | with aux. relay |
| 63277 | CUS-10-180 | US | 180° | 1000 sq. ft. | |
| 63278 | CUS-10-180-R | US | 180° | 1000 sq. ft. | with aux. relay |
| 63279 | CUS-20-360 | US | 360° | 2000 sq. ft. | |
| 63280 | CUS-20-360-R | US | 360° | 2000 sq. ft. | with aux. relay |
| 63268 | CDT-20-360-R | DT | 360° | 2000sq. ft. | with aux. relay |
| 63273 | CIR-15-360-D-T | PIR | 360° | 1500 sq. ft. | with photocell |
| 63274 | CIR-2H-360-D-T | PIR | 360° | 2 x mount height | with photocell |

GE Aware™ Corner/Wall Sensors - Low Voltage

| | | | | | |
|-------|------------|-----|--|---------------|----------------|
| 63293 | SIR-WIDE-D | PIR | | 1200 sq. ft. | with photocell |
| 63292 | SIR-WIDE | PIR | | 1200 sq. ft. | |
| 63290 | SIR-LONG | PIR | | 90 ft. linear | |
| 63291 | SIR-LONG-D | PIR | | 90 ft. linear | with photocell |
| 63288 | SDT-WIDE | DT | | 1200 sq. ft. | |
| 63289 | SDT-WIDE-D | DT | | 1200 sq. ft. | with photocell |

| Product Code | Description | Sensing Technology | Relay | Coverage Area | Voltage | Color | Additional Information |
|--------------|-------------|--------------------|-------|---------------|---------|-------|------------------------|
|--------------|-------------|--------------------|-------|---------------|---------|-------|------------------------|

GE Aware™ Wall Switch Sensors - Line Voltage

| | | | | | | | |
|-------|-----------------|-----|--------|--------------|---------|--------------|----------------|
| 63295 | WDT-10-SR-G-D-W | DT | Single | 1000 sq. ft. | 120/277 | White | with photocell |
| 63296 | WDT-10-SR-G-D-V | DT | Single | 1000 sq. ft. | 120/277 | Ivory | with photocell |
| 63297 | WDT-10-SR-G-D-A | DT | Single | 1000 sq. ft. | 120/277 | Light Almond | with photocell |
| 63298 | WDT-10-SR-G-D-G | DT | Single | 1000 sq. ft. | 120/277 | Gray | with photocell |
| 63299 | WDT-10-SR-G-D-B | DT | Single | 1000 sq. ft. | 120/277 | Black | with photocell |
| 63308 | WDT-10-DR-G-D-W | DT | Dual | 1000 sq. ft. | 120/277 | White | with photocell |
| 63309 | WDT-10-DR-G-D-V | DT | Dual | 1000 sq. ft. | 120/277 | Ivory | with photocell |
| 63313 | WDT-10-DR-G-D-A | DT | Dual | 1000 sq. ft. | 120/277 | Light Almond | with photocell |
| 63314 | WDT-10-DR-G-D-G | DT | Dual | 1000 sq. ft. | 120/277 | Gray | with photocell |
| 63315 | WDT-10-DR-G-D-B | DT | Dual | 1000 sq. ft. | 120/277 | Black | with photocell |
| 63324 | WIR-10-SR-G-D-W | PIR | Single | 1000 sq. ft. | 120/277 | White | with photocell |
| 63325 | WIR-10-SR-G-D-V | PIR | Single | 1000 sq. ft. | 120/277 | Ivory | with photocell |
| 63326 | WIR-10-SR-G-D-A | PIR | Single | 1000 sq. ft. | 120/277 | Light Almond | with photocell |
| 63327 | WIR-10-SR-G-D-G | PIR | Single | 1000 sq. ft. | 120/277 | Gray | with photocell |
| 63328 | WIR-10-SR-G-D-B | PIR | Single | 1000 sq. ft. | 120/277 | Black | with photocell |
| 63335 | WIR-10-SR-C-D-W | PIR | Single | 1000 sq. ft. | 347 | White | with photocell |
| 63336 | WIR-10-SR-C-D-V | PIR | Single | 1000 sq. ft. | 347 | Ivory | with photocell |
| 63337 | WIR-10-SR-C-D-A | PIR | Single | 1000 sq. ft. | 347 | Light Almond | with photocell |
| 63338 | WIR-10-SR-C-D-G | PIR | Single | 1000 sq. ft. | 347 | Gray | with photocell |
| 63339 | WIR-10-SR-C-D-B | PIR | Single | 1000 sq. ft. | 347 | Black | with photocell |
| 63344 | WIR-10-DR-G-D-W | PIR | Dual | 1000 sq. ft. | 120/277 | White | with photocell |
| 63345 | WIR-10-DR-G-D-V | PIR | Dual | 1000 sq. ft. | 120/277 | Ivory | with photocell |
| 63346 | WIR-10-DR-G-D-A | PIR | Dual | 1000 sq. ft. | 120/277 | Light Almond | with photocell |
| 63347 | WIR-10-DR-G-D-G | PIR | Dual | 1000 sq. ft. | 120/277 | Gray | with photocell |
| 63348 | WIR-10-DR-G-D-B | PIR | Dual | 1000 sq. ft. | 120/277 | Black | with photocell |

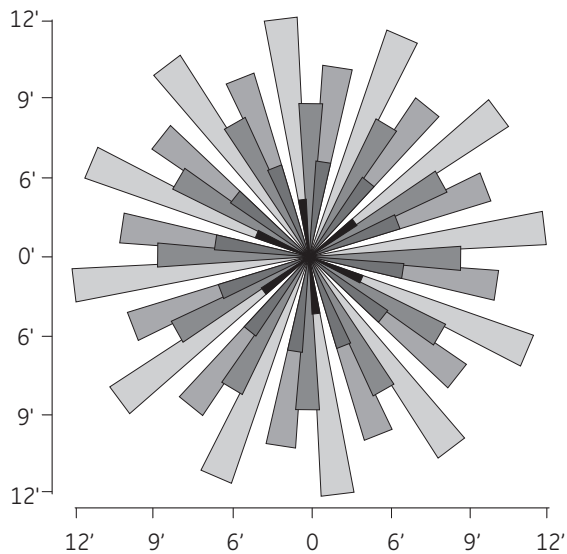
Controls

| Product Code | Description | Sensing Technology | Viewing Angle | Color | Additional Information |
|--|----------------|--------------------|---------------|--------------|------------------------|
| Occupancy Sensor (continued) | | | | | |
| GE Aware™ Wall Switch Sensors - Low Voltage | | | | | |
| 63393 | WIR-10-LV-W | PIR | 1000 sq. ft. | White | |
| 63394 | WIR-10-LV-V | PIR | 1000 sq. ft. | Ivory | |
| 63395 | WIR-10-LV-A | PIR | 1000 sq. ft. | Light Almond | |
| 63396 | WIR-10-LV-G | PIR | 1000 sq. ft. | Gray | |
| 63397 | WIR-10-LV-B | PIR | 1000 sq. ft. | Black | |
| 63398 | WIR-10-RR7-D-W | PIR | 1000 sq. ft. | White | for RR7 Relay |
| 63399 | WIR-10-RR7-D-V | PIR | 1000 sq. ft. | Ivory | for RR7 Relay |
| 63401 | WIR-10-RR7-D-A | PIR | 1000 sq. ft. | Light Almond | for RR7 Relay |
| 63403 | WIR-10-RR7-D-G | PIR | 1000 sq. ft. | Gray | for RR7 Relay |
| 63405 | WIR-10-RR7-D-B | PIR | 1000 sq. ft. | Black | for RR7 Relay |
| GE Aware™ High-Bay Fixture Mount Sensors - Line Voltage | | | | | |
| 64131 | HB-12-SR | PIR | Single | 120/277 | |
| 64132 | HB-12-SR-D | PIR | Single | 120/277 | with photocell |
| 64135 | HB-12-DR | PIR | Dual | 120/277 | |
| 64136 | HB-12-DR-D | PIR | Dual | 120/277 | with photocell |
| Photo Sensor | | | | | |
| GE Aware™ Stand-Alone Photo Sensor | | | | | |
| 65368 | PCD-IN-SA | | | | |

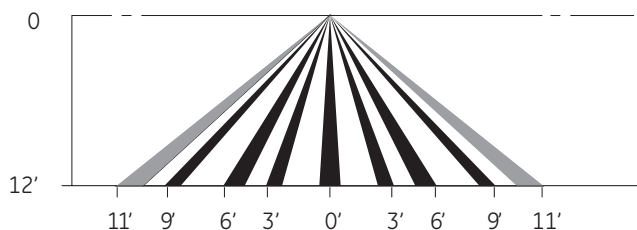
Coverage Diagrams

CIR-05-360-D

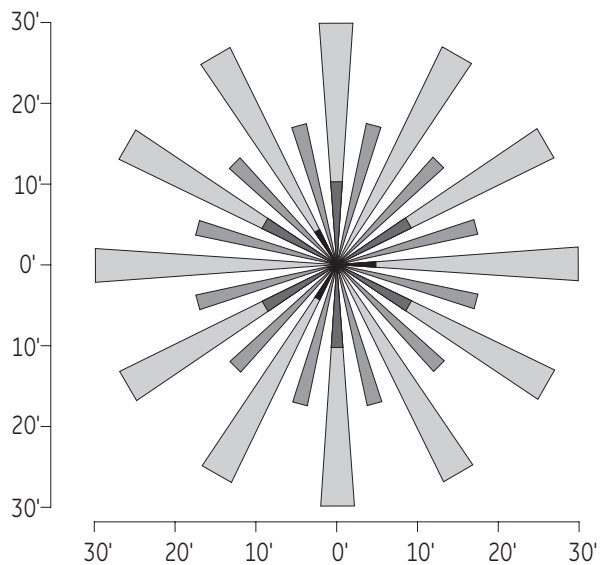
TOP VIEW



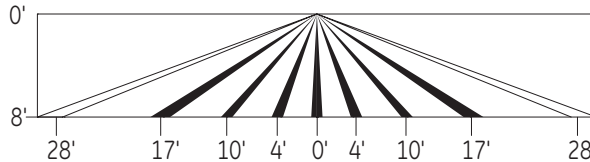
SIDE VIEW



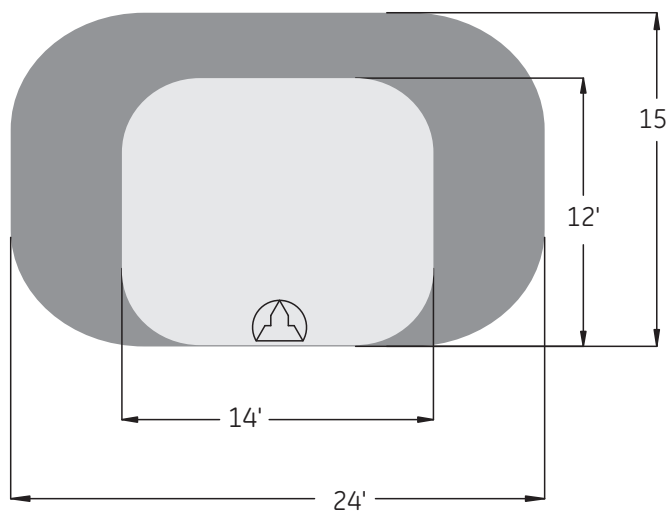
CIR-15-360-D



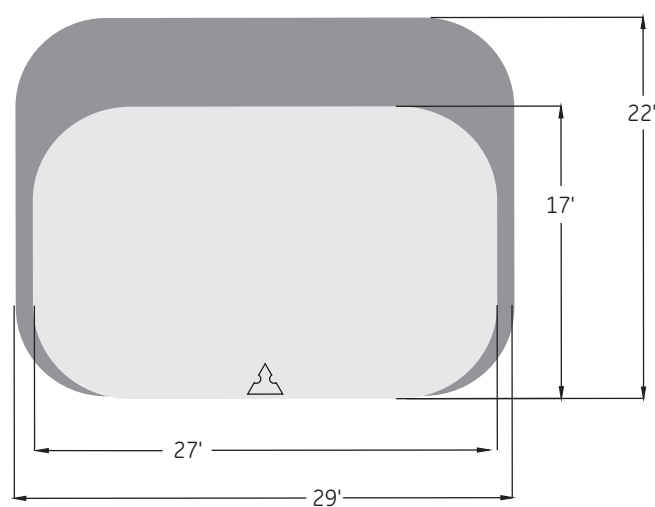
SIDE VIEW



CUS-05-180(-R)

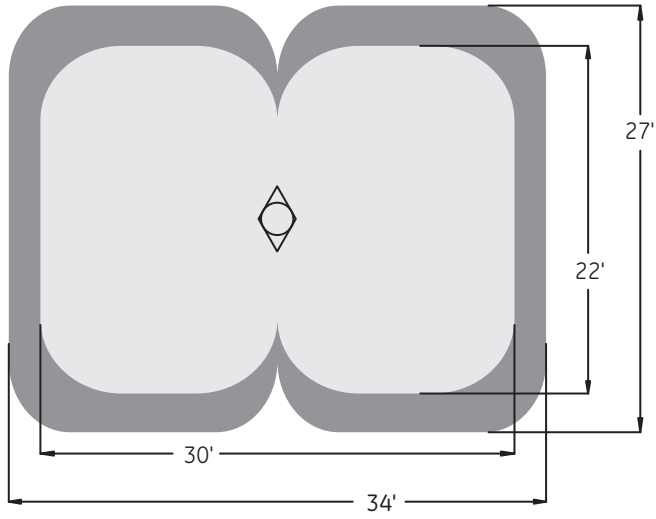


CUS-10-180(-R)

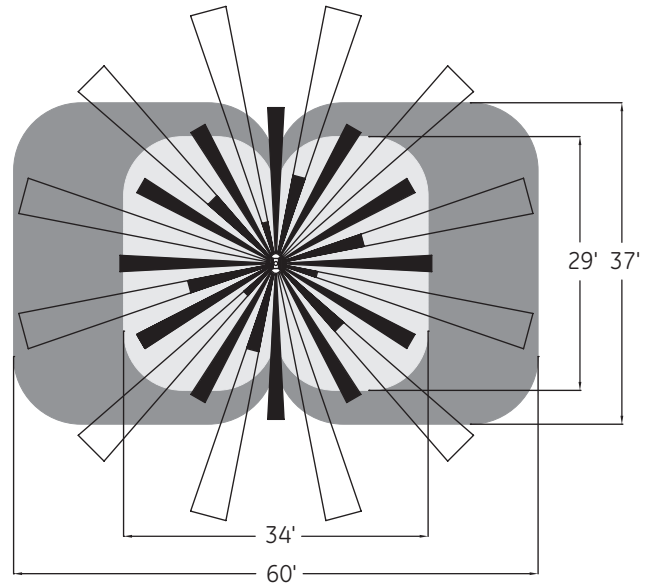


Controls

CUS-20-360(-R)

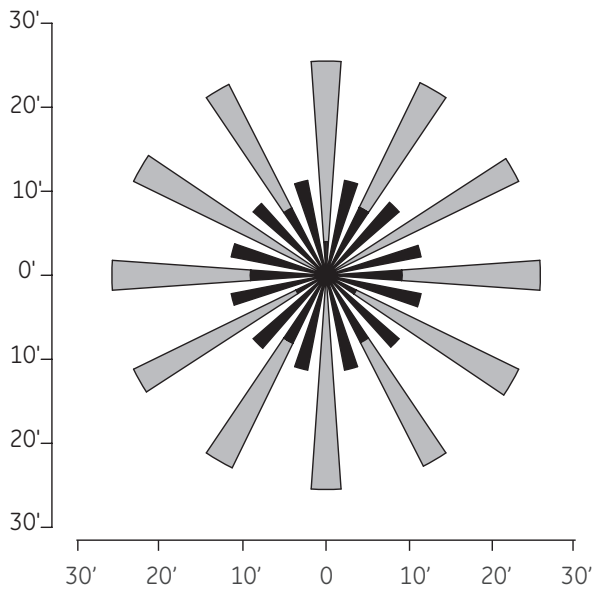


CDT-20-360-R

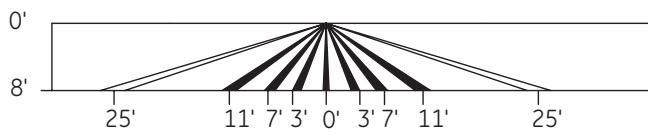


CIR-15-360-D-T

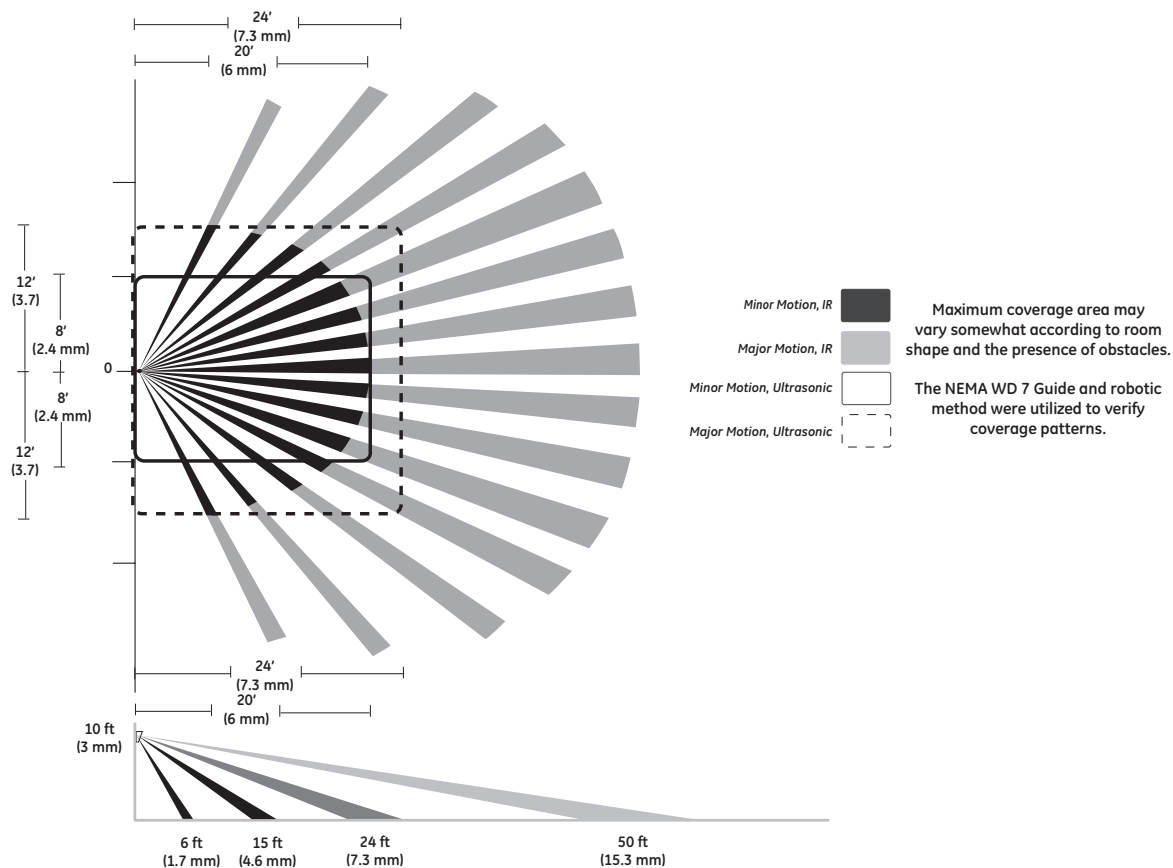
TOP VIEW



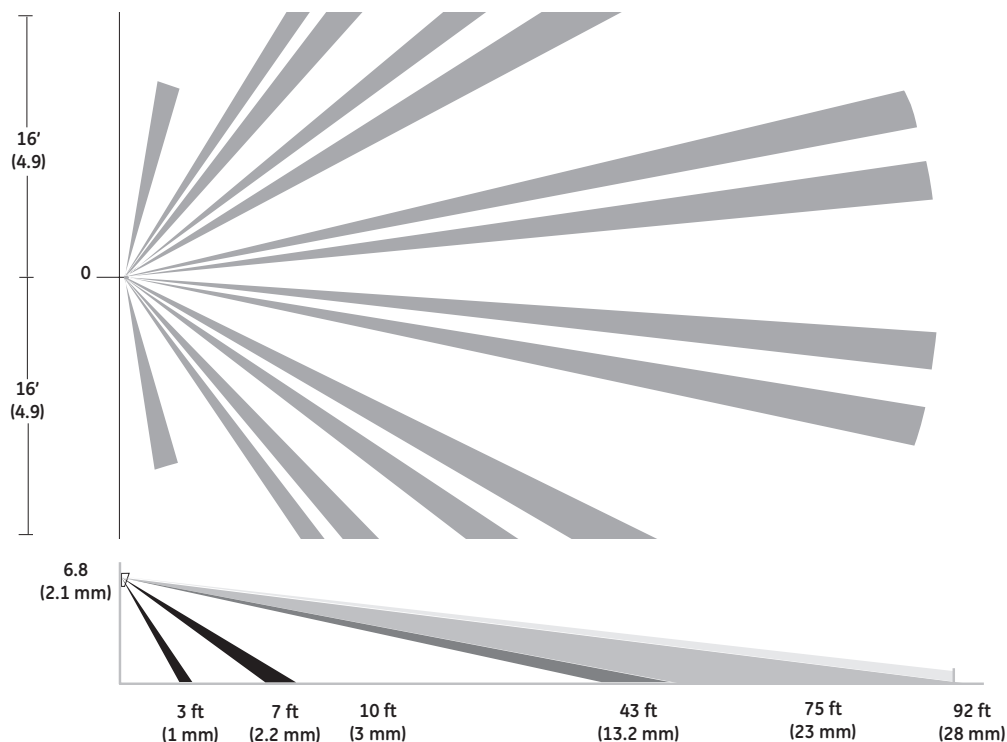
SIDE VIEW



SDT-WIDE (-D)

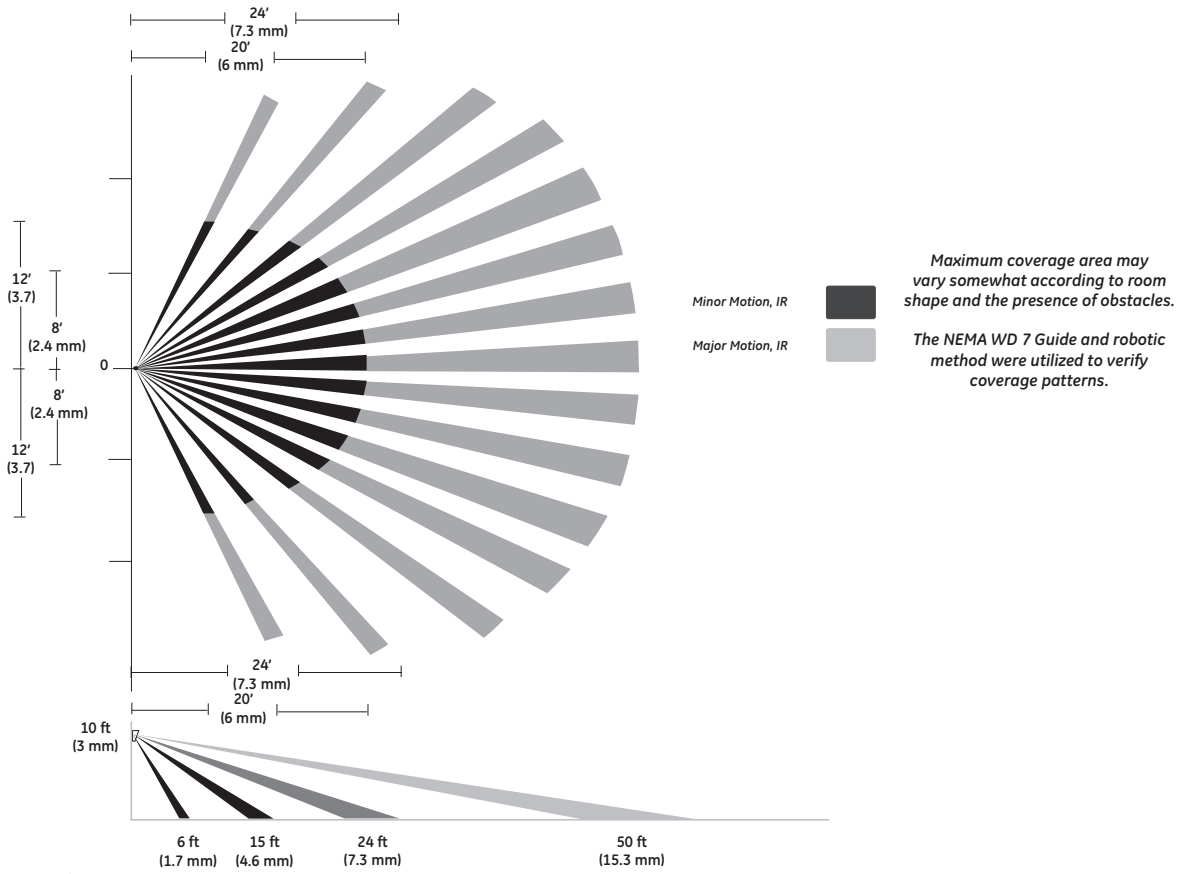


SIR-LONG (-D)

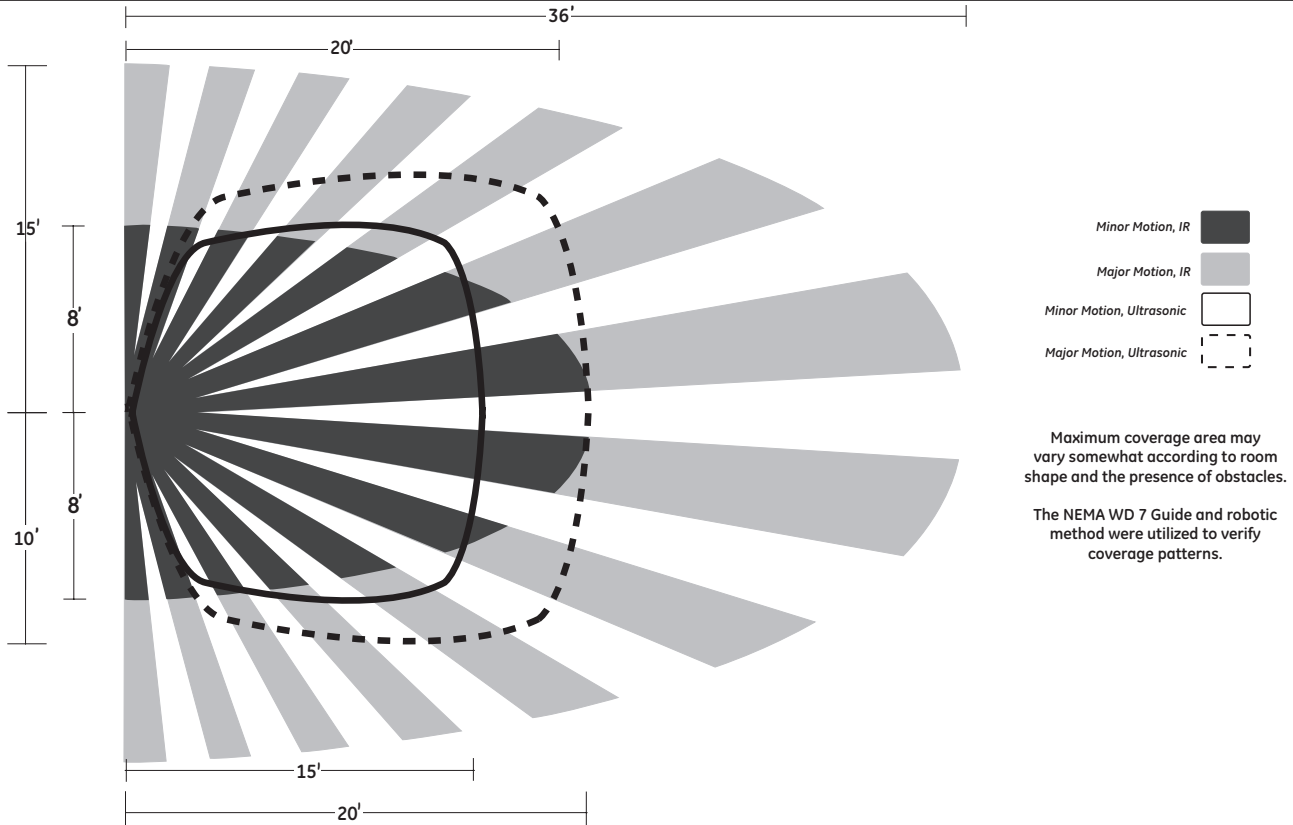


Controls

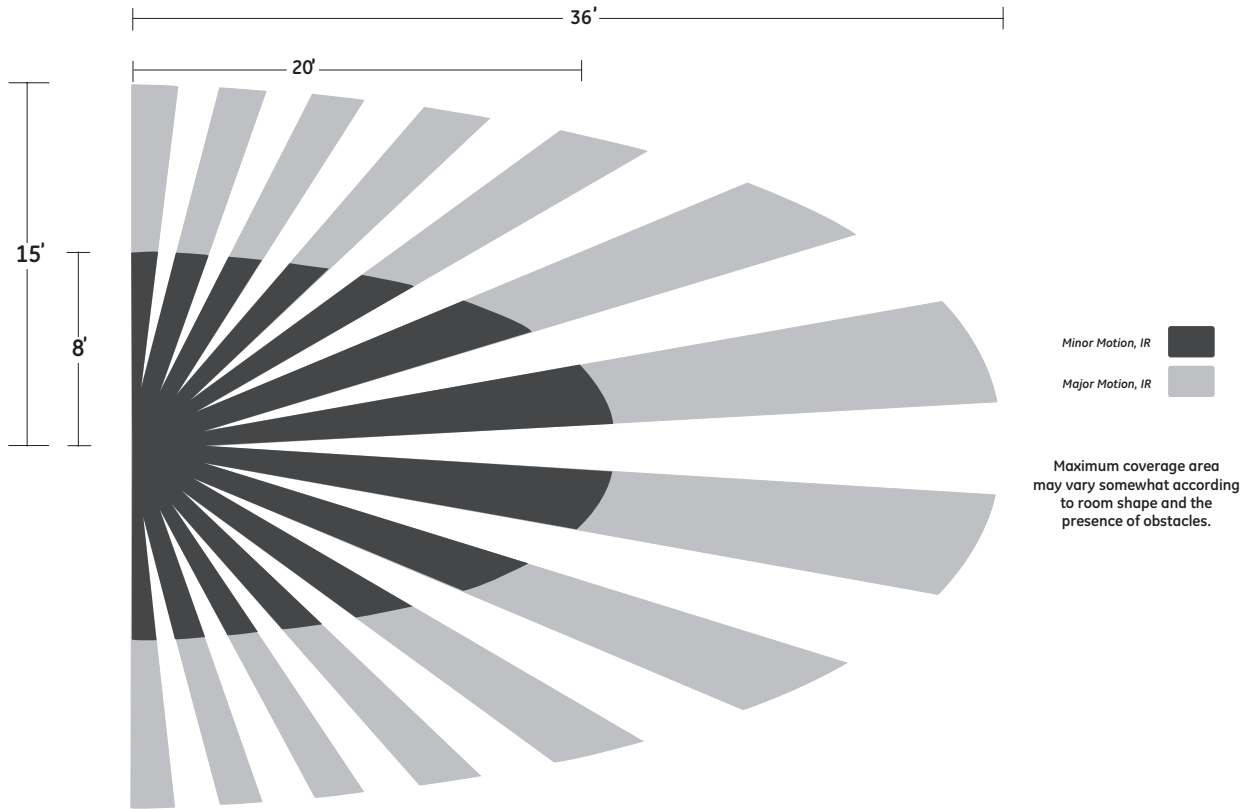
SIR-WIDE (-D)



WIR/WDT (all)



WIR(all)



Appendix

Lamp Sizing Guide

Lamp Size/Diameter

The diameter of a lamp, at its maximum dimension, is expressed in eighths of an inch. Examples: The diameter of an A19 lamp is 19-eighths of an inch, or 2-3/8", at its widest point. A T8 lamp has a diameter of 8-eighths, or one inch.

Light Center Length (L.C.L.)

The distance between the center of the filament, or arc tube, and a reference plane — usually the bottom of the lamp base. See L.C.L. Reference Plane Location chart below.

L.C.L. Reference Plane Location

| Base Type | Location |
|------------------------------------|--|
| All Screw Bases (except Mini-Can.) | Bottom of base contact |
| Mini-Can | Where diameter of ceramic base insulator is .531 inches |
| 3-Contact Medium | Bottom of base contact |
| Mogul Medium Prefocus | Top of base fins |
| Mogul Prefocus | Top of base fins |
| Medium BiPost | Base end of bulb (Glass lamps) Bottom of ceramic base (Quartz lamps) |
| Mogul BiPost | Shoulder of posts (Glass lamps) Bottom of ceramic base (Quartz lamps) |
| 2-Pin Prefocus | Bottom of ceramic base. |
| S.C. or D.C. Bayonet Candelabra | Top of base pins |
| Medium Bayonet | Top of base pins |
| S.C. or D.C. Prefocus | Plane of locating bosses on prefocus collar |
| Medium 2-Pin | Bottom of metal base shell |

Maximum Overall Length (M.O.L.)

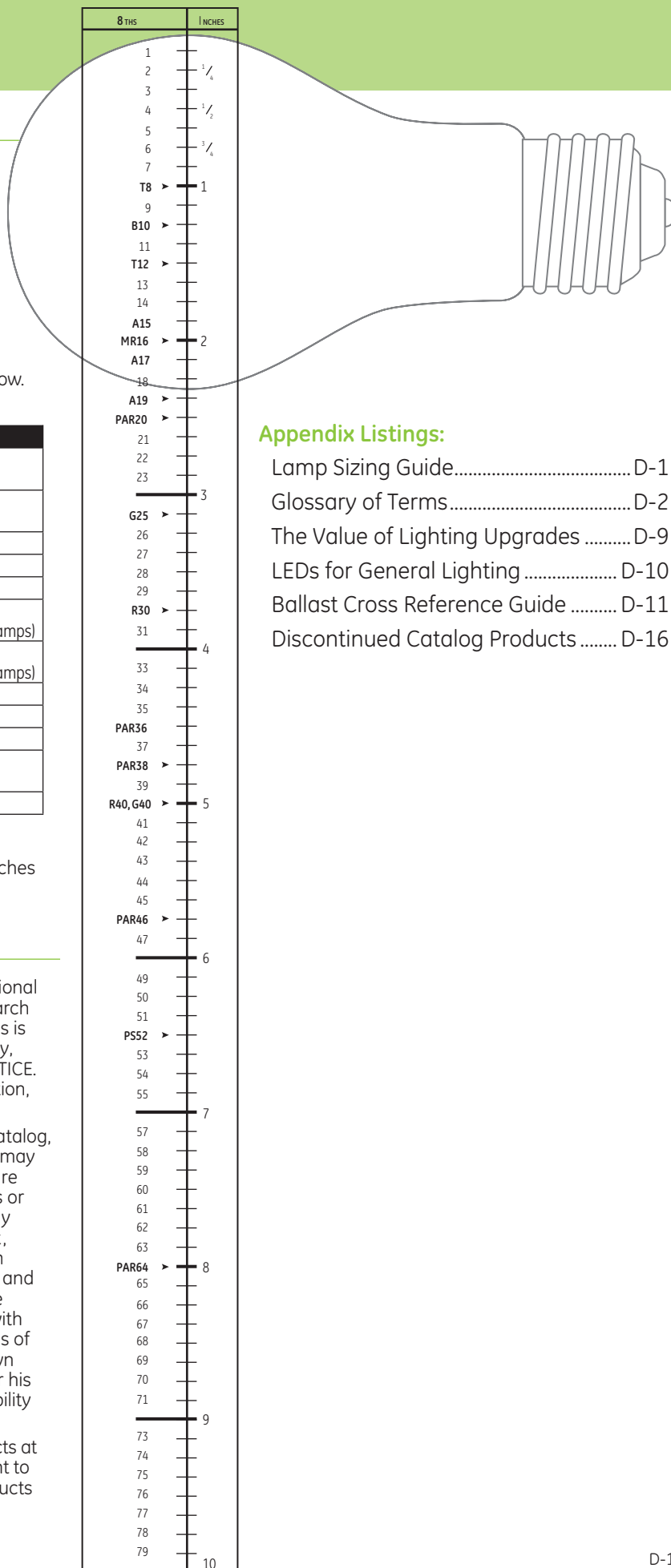
The end-to-end measurement of a lamp, expressed in inches or millimeters.

Important Notice

This catalog is a compilation of accumulated data. Additional information is constantly being uncovered through research and testing, which may modify the data given herein. This is particularly true of newer lamps and ballasts. Accordingly, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. For the latest lamp and ballast design data and information, contact your GE Representative.

The data and suggested applications contained in this catalog, as well as any additional information our representative may be able to furnish, are for general information only and are not intended and should not be taken as representations or warranties as to the suitability of a lamp or ballast for any particular application or use in any particular equipment, nor are our representatives authorized to make any such warranties. Applications and conditions of use are many and varied, and beyond our control. We cannot possibly have the same degree of knowledge that the purchaser has with respect to the design of his equipment and the conditions of its use. Therefore, it is up to the purchaser to make its own determination as to the suitability of a lamp or ballast for his intended application or use and to assume the responsibility for that determination.

General Electric desires to supply the best possible products at all times. For this reason, General Electric reserves the right to make changes in its products, and to introduce new products or discontinue existing ones without notice.



Appendix Listings:

Lamp Sizing Guide..... D-1
 Glossary of Terms..... D-2
 The Value of Lighting Upgrades D-9
 LEDs for General Lighting D-10
 Ballast Cross Reference Guide D-11
 Discontinued Catalog Products D-16

Glossary of Terms

Ambient Temperature

Ambient temperature which refers to the temperature inside the fixture in the air surrounding the fluorescent lamp or LED. Fluorescent lamp light output and LED life are affected by the ambient temperature.

Amperes

("Amps") A measure of electrical current. In incandescent lamps, the current is related to voltage and power as follows: Watts (power) = Volts x Amps (current).

ANSI (American National Standards Institute)

A consensus-based organization which coordinates voluntary standards for the physical, electrical and performance characteristics of lamps, ballasts, luminaires and other lighting and electrical equipment.

ANSI Ballast Type

A reference to the ANSI document describing the lamp which also lists the characteristics of the ballast required to operate the lamp. Technically, therefore, it is incorrect to refer to "Ballast Type" with the ANSI code but this misuse is common. The following naming system is used: H – mercury lamps; M – metal halide lamps; S – high pressure sodium lamps; L – low pressure sodium lamps.

ANSI Codes

These are 3-letter codes assigned by the American National Standards Institute. They provide a system of assuring mechanical and electrical interchangeability among similarly coded lamps from various manufacturers. General Electric uses the assigned ANSI Codes as lamp ordering codes for most projection lamps.

Auto Reset Shutdown Circuit

Circuit senses lamp end life and will automatically shut off power to the lamp(s). When a new lamp is inserted in the socket, the ballast resets, and turns on the lamp automatically. Some shutdown circuits require the power to be cycled before a new lamp will re-light.

Ballast

An auxiliary piece of equipment required to start and to properly control the flow of current to gas discharge light sources such as fluorescent and high intensity discharge (HID) lamps. Typically, magnetic ballasts (also called electromagnetic ballasts) contain copper windings on an iron core while electronic ballasts are smaller and more efficient and contain electronic components.

Ballast Efficacy Factor (BEF)

Defined as ballast factor x 100 divided by input watts. The value is used to evaluate various lighting systems based on light output and power input. The BEF can only be used to compare systems operating the same type and quantity of lamps.

Ballast Factor (BF)

This is the percentage of a lamp's rated lumen output that can be expected when operated on a specific, commercially available ballast. Note that the "rated output" is sometimes measured on a reference ballast unlike ones that actually operate the lamp in the field. For example, a ballast with a ballast factor of 0.93 will result in the lamp's emitting 93% of its rated lumen output. A ballast with a lower BF results in less light output and also generally consumes less power.

Ballast Hum

Sound generated by the vibration of laminations in the iron core of the transformer or inductor present in the ballast.

Ballast Losses

Power or energy dissipated in the ballast as heat and not converted to lamp energy.

Ballast Luminous Efficiency (BLE)

A new (2011) metric measuring the ratio of total fluorescent lamp arc power to the input power supplied to the ballast.

Base Temperature (Maximum)

The maximum operating temperature permitted for the base in Celsius. Fixture manufacturers need to ensure that these conditions are satisfied in their fixture.

Beam Angle

The angular dimension of the cone of light from reflectorized lamps (such as R and PAR types) encompassing the central part of the beam out to the angle where the intensity is 50% of maximum. The beam angle (sometimes called "beam spread") is often part of the ordering code for reflectorized lamps. Example: The 50PAR30/HIR/NFL25 is a 50 watt PAR30 narrow flood lamp with a beam angle of 25 degrees, i.e. 12.5 degrees on either side of the center (see FIELD ANGLE).

Bi-Pin

Any base with two metal pins for electrical contact. This is the typical base for a fluorescent tube of 1 to 4 feet in length. It consists of 2 prong contacts that connect into the fixture. Medium bi-pins are used with type T-8 and T-12 tubular fluorescent lamps, and miniature bi-pins are used for tubular T-5 fluorescent lamps.

Biax®

GE trademark for its biaxial family of high-efficiency and long-life compact fluorescent lamps. DBX (Double Biax), TBX (Triple Biax) and QBX (Quad Biax) refer to the number of U-shaped legs present in the lamp.

Bright from the Start™

A GE brand name for a family of hybrid compact fluorescent lamps (CFL) that eliminate the warm up time to full brightness associated with traditional CFLs.

British Thermal Unit (BTU)

Unit of energy used in HVAC calculations. 1 BTU = 1055 joules; 1kWh = 3412 BTU.

Bulb Size

Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch). For Compact Fluorescent products, "S", "D", "T", and "Q" are used to represent Single, Double, Triple and Quad Biax® sizes. The code also includes a reference such as T4 to represent the size of the tube. Rectangular headlamps are designated as "Rect" and the number of millimeters horizontally.

Canadian Energy Standards

Indicates ballast complies with Canadian Energy Standards and meets the requirements of CAN/CSA C654-M91.



Canadian Standards Association (CSA)

Association that generates product performance and safety standards for many Canadian industries.

Candela (cd)

The measure of luminous intensity of a source in a given direction. The term has been retained from the early days of lighting when a standard candle of a fixed size and composition was defined as producing one candela in every direction. A plot of intensity versus direction is called a candela distribution curve and is often provided for reflectorized lamps and for luminaires with a lamp operating in them.

Candlepower

An obsolete term for luminous intensity; current practice is to refer to this simply as candelas (see CANDELA).

Candlepower Distribution Curve

A graphical presentation of the distribution of light intensity of a light source, usually a reflector lamp or luminaire.

Capacitor

Device in ballast that stores electrical energy. Often used for power factor correction and lamp regulation.

Cathode

Metal filaments that emit electrons in a fluorescent lamp. Negatively charged free electrons emitted by the cathode are attracted to the positive electrode (anode), creating an electric current between the electrodes (see ELECTRODE).

Cathode Resistance

Resistance of the cathode in a Fluorescent lamp. It is measured "cold" before the lamp is turned on (Rc) or "hot" after the lamp is turned on (Rh). The ratio of the hot resistance to the cold resistance is also measured (Rh/Rc).

Center Beam Candlepower (CBCP)

Refers to the luminous intensity at the center of the beam of a blown or pressed reflector lamp (such as a PAR lamp). Measured in candelas (see CANDELA).

Ceramic Metal Halide

A type of metal halide lamp that uses a ceramic material for the arc tube instead of glass quartz, resulting in better color rendering (>80 CRI) and improved lumen maintenance. GE ConstantColor® CMH® lamps feature a 3-piece arc tube design that delivers excellent color consistency and lamp reliability.

ChromaFit™

A GE brand name for metal halide lamps designed to operate on HPS ballasts, allowing a user to switch from the yellowish color of HPS to the white color of metal halide without retrofitting ballasts. These products are available in both quartz metal halide and ceramic metal halide (CMH®) versions.

Class P Thermal Protector

A switching device sensitive to current and heat that automatically disconnects ballast if the temperature exceeds UL temperature limitations.

Coefficient of Utilization (CU)

In general lighting calculations, the fraction of initial lamp lumens that reach the work plane. CU is a function of luminaire efficiency, room surface reflectances and room shape.

Coil

Windings of copper or aluminum wire surrounding the steel core in ballast. Also refers to the entire assembly comprising the inductor or transformer.

Color Quality Scale (CQS)

A new color metric proposed by NIST (US National Institute of Standards) based on fifteen color chips instead of the eight used in CRI.

Color Rendering Index (CRI)

A measure of the ability of a light source to render object colors faithfully in comparison with a designated standard light source. Incandescent objects and daylight are both considered "standard" sources. Note that "standard" is defined for convenience in reproducibility rather than being based on user preference.

Color Temperature (Correlated Color Temperature – CCT)

A number indicating the degree of "yellowness" or "blueness" of a white light source. Measured in Kelvins, CCT represents the temperature an incandescent object (like a filament) must reach to mimic the color of the lamp. Yellowish-white ("warm") sources, like incandescent lamps, have lower color temperatures in the 2700K–3000K range; white and bluish-white ("cool") sources, such as cool white (4100K) and natural daylight (6000K), have higher color temperatures. The higher the color temperature the whiter, or bluer, the light will be.

Compact Fluorescent Lamp (CFL)

The general term applied to fluorescent lamps that are single-ended and that have smaller diameter tubes that are bent to form a compact shape. Some CFLs have integral ballasts and medium or candelabra screw bases for easy replacement of incandescent lamps.

ConstantColor®

A GE registered name for lamp families that show very little color shift over life, such as GE's Precise™ MR16 lamps and GE's ceramic metal halide (CMH®) lamps.

Cool White

A term loosely used to denote a color temperature of around 4100K. The Cool White (CW) designation is used specifically for T12 and other fluorescent lamps using halophosphors and having a CRI of 62.

Core

Component of electromagnetic ballast that is surrounded by the coil. Core is comprised of steel laminations or solid ferrite material.

Core & Coil Ballast

A ballast that uses a "Core & Coil" assembly to operate fluorescent or HID lamps. Refers to copper or aluminum windings on a steel core.

Cost of Light

Usually refers to the cost of operating and maintaining a lighting system on an ongoing basis. The 88-8-4 rule states that (typically) 88% is the cost of electricity, 8% is labor and only 4% is the cost of lamps.

covRguard®

A GE lamp encased by a plastic sleeve or coating to help contain glass fragments if the lamp breaks.

Crest Factor (Lamp Current Crest Factor)

Ratio of peak to RMS for any AC waveform. Crest factor can refer to voltage crest factor or current crest factor.

Current Type (AC/DC)

Whether the operational voltage is based on Alternating Current or Direct Current.

Daylight Harvesting

Lighting design for building interiors that

makes use of daylight as a way of reducing energy consumption.

Dimmer, Dimming Control

A device used to lower the light output of a source, usually by reducing the wattage it is being operated at. Dimming controls are increasing in popularity as energy conserving devices.

Discharge Lamp

A lamp where light is emitted from an electrical discharge between two electrodes as opposed to a filament lamp. Examples are: Fluorescent lamps and HID (High Intensity Discharge) lamps like Metal Halide, Mercury and High Pressure Sodium. All discharge lamps require some kind of current-limiting device, e.g. a ballast, to operate them.

Ecolux®

A brand for GE lamps that have reduced mercury content and pass the TCLP test.

Edison

GE's trademark for a wide range of halogen lamps for the consumer market.

Efficacy

A measurement of how effective the light source is in converting electrical energy to lumens of visible light. Expressed in lumens-per-watt (LPW), this measure gives more weight to the yellow region of the spectrum and less weight to the blue and red regions where the eye is not as sensitive. The efficiency of a light source is simply the fraction of electrical energy converted to light, i.e. watts of visible light produced for each watt of electrical power with no concern about the wavelength where the energy is being radiated. For example, a 100-watt incandescent lamp converts 7% of the electrical energy into light; discharge lamps convert 25% to 40% into light.

Efficiency

The efficiency of a light source is simply the fraction of electrical energy converted to light, i.e. watts of visible light produced for each watt of electrical power with no concern about the wavelength where the energy is being radiated. For example, a 100-watt incandescent lamp converts 7% of the electrical energy into light; discharge lamps convert 25% to 40% into light. The efficiency of a luminaire or fixture is the percentage of the lamp lumens that actually comes out of the fixture (see LUMINAIRE EFFICIENCY).

Efficiency of Ballast

See Ballast Luminous Efficiency.

e-HID ballast (see ELECTRONIC HID BALLAST).**Electrical Discharge**

A condition under which a gas becomes electrically conducting and becomes capable of transmitting current, usually accompanied by the emission of visible and other radiation. An electric spark in air is an example of an electrical discharge, as is a welder's arc and a lightning bolt.

Electrical Testing Laboratory (ETL)

Independent testing laboratory that performs ballast tests and certifies accuracy of performance data.

Electrode

Any metal terminal emitting or collecting charged particles, typically inside the chamber of a gas discharge lamp. In a fluorescent lamp, the electrodes are typically metal filaments coated with special powders called emission mix.

Negatively charged free electrons emitted by one electrode are attracted to the positive electrode (anode), creating an electric current and arc between electrodes.

Electrodeless Lamps

Light sources where the discharge occurs in a chamber with no electrodes (no metal). The energy for the discharge is supplied by radio frequency excitation, e.g. microwaves (see INDUCTION LIGHTING and GENURA®).

Electromagnetic Ballast (see MAGNETIC BALLAST).**Electromagnetic Spectrum**

A continuum of electric and magnetic radiation that can be characterized by wavelength or frequency. Visible light encompasses a small part of the electromagnetic spectrum in the region from about 380 nanometers (violet) to 770 nanometers (red) by wavelength.

Electromagnetic Interference (EMI)

High-frequency electronic ballasts and other electronic devices can produce a small amount of radio waves that can interfere with radio and TV. Federally-mandated requirements must be met for EMI levels before an electronic device is considered FCC compliant (FCC is the Federal Communications Commission).

Electronic Ballast

A short name for a fluorescent high-frequency electronic ballast. Electronic ballasts use solid-state electronic components and typically operate fluorescent lamps at frequencies greater than 25 kHz. The benefits are: increased lamp efficacy, reduced ballast losses and lighter, smaller ballasts compared to electromagnetic ballasts. Electronic ballasts may also be used with HID (high intensity discharge) lamps (see MAGNETIC BALLASTS).

Electronic HID Ballast

An electronic ballast capable of operating an HID lamp. GE's UltraMax® (electronic HID ballast) operates PulseArc® (metal halide) and CMH® (ceramic metal halide) lamps between 250W and 400W and provides higher efficiency and significantly improved lumen maintenance over magnetic ballasts.

Elliptical Reflector (ER) Lamp

An incandescent lamp with a built-in elliptically shaped reflecting surface. This shape produces a focal point directly in front of the lamp which reduces light absorption in some types of luminaires. It is particularly effective at increasing the efficiency of baffled downlights.

Energy Policy Act (EPACT)

Comprehensive energy legislation passed by the U. S. Congress. The lighting portion includes lamp labeling and minimum energy efficacy (lumens/watt) requirements for many commonly used incandescent and fluorescent lamp types. Federal Canadian legislation sets similar minimum energy efficacy requirements for incandescent reflector lamps and common linear fluorescent lamps. Provisions for Tax Deductions expiring at the end of 2013.

ENERGY STAR®

As of this publication (2012) U.S. Department of Energy (DOE) designation for products meeting certain energy efficiency and performance standards. Among manufacturers of LEDs, GE has the largest number of ENERGY STAR® products as listed on the Federal Government's website.

EOL (End-of-Life Protection)

A circuit that senses that a lamp has reached

Glossary of Terms

end of life (compact fluorescent lamps and small-diameter linear fluorescent lamps) and turns off power to the lamp. Continuing to power the lamp beyond end of life can result in overheating of the lamp ends.

Federal Communications Commission (FCC)

The U. S. federal agency that regulates emissions in the radio frequency portion of the electromagnetic spectrum. Part 18 of the FCC rules specifies electromagnetic interference (EMI) from lighting devices at frequencies greater than 450 kilohertz (kHz). A consumer-rated Class B ballast is designed for use in the home near TV and radio receivers. It produces less electrical noise that could interfere with consumer products. A Class A-rated ballast is designed for use in commercial and industrial applications that are not in the vicinity of TV and radio receivers.

Field Angle

The angular dimension of the cone of light from reflectorized lamps (such as R and PAR types) encompassing the central part of the beam out to the angle where the intensity is 10% of maximum (see BEAM ANGLE).

Flicker

The periodic variation in light level caused by AC operation that can lead to strobe effects.

Fluorescent HO

Fluorescent HO and VHO lamps require special ballasts that generate higher currents than standard ballasts and operate the lamps at higher wattage than standard lamps. These lamps are generally less efficient than the standard product. Metal Halide HO and XHO lamps operate on the same ballasts as standard lamps and at the same wattage but are more efficient and produce higher light output than standard lamps.

Fluorescent Lamp

A high efficiency lamp utilizing an electric discharge through low pressure mercury vapor to produce ultra-violet (UV) energy. The UV excites phosphor materials applied as a thin layer on the inside of a glass tube which makes up the structure of the lamp. The phosphors transform the UV to visible light.

Footcandle (fc)

A unit of illuminance or light falling onto a surface. It stands for the light level on a surface one foot from a standard candle. One footcandle is equal to one lumen per square foot (see LUX).

Forward Current

The current in milliamperes or amperes that the driver is pushing through the LED. For a given LED package, the higher the forward current, the higher the light output, the lower the efficacy and the poorer the lumen maintenance and expected life.

Four-Pin Compact Fluorescent Lamps

A "plug-in" compact fluorescent lamp with 4 pins in the base to make electrical contact with the ballast. Four-pin lamps can be dimmed on appropriate dimming ballasts while two-pin lamps cannot.

Frequency

Rate of alternation in an AC current. Expressed in cycles per second or Hertz (Hz).

Full Spectrum Lighting

A marketing term, typically associated with light sources that are similar to some forms of natural daylight (5000K and above, 90+ CRI), but sometimes more broadly used for lamps that have a smooth and continuous color spectrum.

Genura®

GE's electrodeless compact fluorescent lamp, Genura®, uses induction to power the discharge. The chamber generates UV (just like a discharge in a regular fluorescent lamp) that is converted by phosphors to visible light. Because Genura® uses no electrodes, the life of this unique reflector lamp is longer than typical compact fluorescent products (see INDUCTION LIGHTING).

Glare

Visual discomfort caused by excessive brightness is called discomfort glare. If task performance is affected it is called disability glare. Glare can be direct glare or indirect (reflected) glare.

Group Relamping

The practice of replacing all the lamps at an installation at one time with new lamps when the lamps have operated for (typically) 65% to 70% of rated life. The two benefits of group relamping are: (1) reduced maintenance costs because of the expense and inconvenience of replacing failing lamps one at a time, and (2) improved appearance and performance since older lamps are often degrading in brightness and color as they age.

Halogen Lamp

A halogen lamp is an incandescent lamp with a filament that is surrounded by halogen gases, such as iodine or bromine. Halogen gases allow the filaments to be operated at higher temperatures and higher efficacies. The halogen participates in a tungsten transport cycle, returning tungsten to the filament and prolonging lamp life. All halogen lamps have a tungsten filament and, often, a quartz envelope.

HIR™

GE designation for high-efficiency tungsten halogen lamps. HIR lamps utilize shaped filament tubes coated with numerous layers of materials that transmit light but reflect the heat (infrared) back onto the filament. This reduces the power needed to keep the filament hot.

Harmonic

An integral multiple of the fundamental frequency (60 Hz) that becomes a component of the current.

Harmonic Distortion (see TOTAL HARMONIC DISTORTION or THD).

Hertz (Hz)

Unit used to measure frequency of alteration of current or voltage, in cycles per second.

Highbay Lighting

Lighting designed for (typically) industrial locations with a ceiling height of 25 feet and above.

High Intensity Discharge (HID) Lamp

A general term for mercury, metal halide (GE ConstantColor® CMH®, Multi-Vapor®, MXR or Arcstream®) and high-pressure sodium (GE Lucalox®) lamps. HID lamps contain compact arc tubes which enclose various gases and metal salts operating at relatively high pressures and temperatures.

High Output/Very High Output (HO, VHO) Lamps
Designation for lamps generating more light than standard lamps.

High Power Factor

A ballast whose power factor is corrected to 90% or greater.

High-Pressure Sodium (HPS) Lamp

HPS lamps are high intensity discharge light sources that produce light by an electrical

discharge through sodium vapor operating at relatively high pressures and temperatures. GE markets these lamps under the trade name of Lucalox®.

Hot Restart Time

If there is a momentary power interruption and the HID lamp goes out, there will be a delay of 10 to 15 minutes before the lamp has cooled down sufficiently to start again. This is called the Hot Restart time. PulseArc® lamps have a significantly shorter Hot Restart time (typically 3-5 minutes) than standard metal halide lamps. Lucalox® Standby lamps will start up immediately while standard Lucalox® lamps require a few minutes.

Ignitor

An electronic device providing a high voltage pulse to initiate an electrical discharge. Typically, the ignitor is paired with or is a part of the ballast.

Illuminance

The "density" of light (lumens/area) incident on a surface; i.e. the light level on a surface. Illuminance is measured in footcandles or lux.

Incandescent Lamp

A light source that generates light utilizing a thin filament wire (usually of tungsten) heated to white heat by an electric current passing through it.

Indirect Lighting

The method of lighting a space by directing the light from luminaires upwards towards the ceiling. The light scattered off the ceiling produces a soft, diffuse illumination for the entire area.

Induction Lighting

Gases can be excited directly by radio-frequency or microwaves from a coil that creates induced electromagnetic fields. This is called induction lighting and it differs from a conventional discharge, which uses electrodes to carry current into the arc. Induction lamps have no electrodes inside the chamber and generally, therefore, have longer life than standard lamps, but slightly reduced efficiency.

Infrared Radiation

Electromagnetic energy radiated in the wavelength range of about 770 to 1,000,000 nanometers. Energy in this range cannot be seen by the human eye, but can be sensed as heat by the skin.

Input Voltage

Power supply voltage required for proper operation of fluorescent or HID ballast.

Input Watts

The total power input to the ballast that includes lamp watts and ballast losses. The total power input to the fixture is the input watts to the ballast or ballasts and is the value to be used when calculating cost of energy and air conditioning loads. More than 90% of the input watts is wattage or power delivered to the lamp load with typical ballast.

Instant Start

A type of ballast designed to start fluorescent lamps as soon as the power is applied. Most T8 fluorescent lamps are being operated on electronic instant-start ballasts. Slimline fluorescent lamps operate only on instant-start circuits.

Instant-Start Lamp

A fluorescent lamp, usually with a single pin at each end, approved to operate on instant-start ballasts. The lamp is ignited by a high voltage without any filament heating.

Integral

A popular term for a compact fluorescent lamp that includes a built-in ballast (see CFL).

Joule

The fundamental unit of energy equal to 1 watt-second.

Kelvins (see COLOR TEMPERATURE).

Kilowatt (kW)

A measure of electrical power equal to 1000 watts.

Kilowatt Hour (kWh)

The standard measure of electrical energy and the typical billing unit used by electrical utilities for electricity use. A 100-watt lamp operated for 10 hours consumes 1000 watt-hours (100 x 10) or one kilowatt-hour. If the utility charges \$.10/kWh, then the electricity cost for the 10 hours of operation would be 10 cents (1 x \$.10).

L70, L85, etc.

L70 (or L85, etc.): The elapsed operating time over which a population of LED light sources will maintain 70% (or 85%) of its initial light output. This 70% number represents the expected median light output (which is close to the average light output) of the tested LED light source population. The value is often stated using the form L70(10K)= 50,000 Hours; this means that the LED light source's median light output reaches 70% of the initial light output at 50,000 Hours based on 10,000 hours of test data using TM-21 projection methods. When the L70 value is stated as "Reported" it means that tests have gone to at least 1/6th of the reported time as required by IESNA's TM-21 methodology. On the other hand, manufacturers will sometimes state a "Calculated" value of L70 which means they are using mathematical curve fitting and projection methods of TM-21 to project beyond 6 times the available test hours.

Laminations

Layers of steel, making up the "core" that is surrounded by the coils in a core & coil ballast.

Lamp

The term used to refer to the complete light source package, including the inner parts as well as the outer bulb or tube. "Lamp," of course, is also commonly used to refer to a type of small light fixture such as a table lamp.

Lamp Current Crest Factor

Ratio of peak lamp current to RMS or average lamp operating current.

Lamp Types

| | |
|------------------|--|
| Filament lamps: | Incandescent, Halogen, Halogen-IR®. |
| Discharge Lamps: | Fluorescent, HID (High Intensity Discharge) |
| HID Lamps: | Mercury, HPS (High-Pressure Sodium), MH (Metal Halide) and CMH® (Ceramic Metal Halide) |
| LED | Solid State Lighting Devices |

Lamp Watts

Power dissipated in the lamp—some of which is converted to light, some to heat and some to ultraviolet.

LED

Light Emitting Diode used as the primary light source in a wide array of LED lighting products. LEDs operate on low voltage DC. Also referred to as SSL (Solid State Lighting).

Life (see RATED LAMP LIFE).

Light

Radiant energy that can be sensed or seen by the human eye. Visible light is measured in lumens.

Light Center Length (L.C.L.)

The distance between the center of the filament, or arc tube, and a reference plane—usually the bottom of the lamp base.

Light Emitting Diode (LED)

A solid that directly converts electrical impulses into light. Some LEDs today incorporate fluorescent materials to change the color characteristics of the emitted light.

Light Loss Factor (LLF)

The product of all factors that contribute to lowering the illumination level including reflector degradation, dirt, lamp depreciation over time, voltage fluctuations, temperature effects, burn-out factor, etc.

LM79

Test procedures specified by the Illuminating Engineering Society for measurements on LED products (complete assembled systems) of lumens, watts and color in actual operating environments.

LM80

Test procedures specified by the Illuminating Engineering Society for measuring lumen depreciation of LED sources, arrays and modules—not luminaires. 6000 hour testing is minimum, but this standard does not provide methods for estimating life.

Lucalox®

The GE brand name for high-pressure sodium lamps.

Lumen

A measure of luminous flux or quantity of light emitted by a source. For example, a dinner candle provides about 12 lumens. A 60-watt Soft White incandescent lamp provides 840 lumens.

Lumen Depreciation, Lumen Maintenance

A measure of how well a lamp maintains its light output over time. It may be expressed numerically or as a graph of light output vs. time. The "mean lumens" of a lamp is the lumens at 40% of rated life (50% for HPS lamp).

Lumens Per Watt (LPW)

A ratio expressing the luminous efficacy of a light source.

Typical lamp efficacies:

| | |
|---------------------------------|---------|
| Edison's first lamp | 1.4 LPW |
| Incandescent lamps | 10-20 |
| Halogen lamps | 15-30 |
| Fluorescent lamps | 35-105 |
| LED Products | 45-100 |
| Mercury lamps..... | 50-60 |
| Metal halide lamps | 60-120 |
| High-pressure sodium lamps..... | 60-140 |

Note: The values above for discharge lamps do not include the effect of the ballasts, which must be used with those lamps. Taking ballast losses into account reduces "system" or lamp ballast efficacies typically by 10-20% depending upon the type of ballast used.

Luminaire

A complete lighting unit consisting of a lamp (or lamps), ballast (or ballasts) as required together with the parts designed to distribute the light, position and protect the lamps and connect them to the power supply. A luminaire is often referred to as a fixture.

Luminaire Efficiency

The ratio of total lumens emitted by a luminaire to those emitted by the lamp or lamps used in that luminaire.

Luminance

A photometric measure of "brightness" of a surface as seen by the observer, measured in candelas per square meter.

Luminous Efficacy

The light output (lumens) of a light source divided by the total power input (watts) to that source. It is expressed in lumens per watt (see LUMENS PER WATT).

Lux (lx)

A unit of illuminance or light falling onto a surface. Lux stands for the light level on a surface one meter from a standard candle. One lux is equal to one lumen per square meter. Ten lux approximately equals one footcandle (see FOOTCANDLE).

Magnetic Ballast

A ballast used with discharge lamps that consists primarily of transformer-like copper or aluminum windings on a steel or iron core. Also called "Core & Coil" (see ELECTRONIC BALLASTS).

Maximum Overall Length (M.O.L.)

The end-to-end measurement of a lamp, expressed in inches or millimeters.

Mean Lumens

The average light output of a lamp over its rated life. Based on the shape of the lumen depreciation curve, for fluorescent and metal halide lamps, mean lumens are measured at 40% of rated lamp life. For mercury, high-pressure sodium and incandescent lamps, mean lumen ratings refer to lumens at 50% of rated lamp life (see LUMEN MAINTENANCE).

Medium Base

Usually refers to the screw base typically used in household incandescent lamps. There is also the medium bi-pin base commonly used in T12 and T8 fluorescent lamps.

Mercury Lamp

A high-intensity discharge light source operating at a relatively high pressure (about 1 atmosphere) and temperature in which most of the light is produced by radiation from excited mercury vapor. Phosphor coatings on some lamp types add additional light and improve color rendering.

Metal Cases

Case design used in both magnetic and electronic ballasts. These ballasts are grounded once they are mounted to the fixture. They meet all safety codes, some of which do not allow plastic in open plenum areas.

Metal Halide Lamp

A high-intensity discharge light source in which the light is produced by the radiation from mercury, plus halides of metals such as sodium, scandium, indium and dysprosium. Some lamp types may also utilize phosphor coatings. GE trade names include: Multi-Vapor®, ConstantColor® CMH®, PulseArc®, StayBright®, Watt-Miser®, ChromaFit™ and Arcstream®.

Mogul Base

A screw base used on larger lamps, e.g. many HID lamps.

Mortality Curve

Lamps have a rated or expected life but individual failures occur earlier and some lamps will last

Glossary of Terms

longer. The mortality curve depicts the expected percent surviving in a group of lamps at various points between zero hours and rated life or beyond. The curve starts with 100% at zero hours and goes to 50% surviving at the rated life (e.g. 3000 hours or 20,000 hours, etc.) However, the shape of the curve between these two end points can vary depending on the lamp type. LEDs have a very different mortality curve from traditional products. See L70, L85 etc. Well-manufactured LEDs are expected to have very little actual "failures" in the traditional sense.

Mounting Height

Distance from the bottom of the fixture to either the floor or work plane, depending on usage.

Multi-Vapor®

A GE brand name for metal halide lamps.

Nanometer

A unit of wavelength equal to one billionth of a meter.

National Energy Standards for Fluorescent Ballasts

A federal law enacted in 1988 that sets energy standards for ballasts consistent throughout the United States.

National Electric Code (NEC)

A nationally accepted electrical installation code to reduce the risk of fire, developed by the National Fire Protection Association.

National Stock Number

The standardized part number used by the U.S. Government for procurement.

NOM

Laboratory that sets safety standards for building materials, electrical appliances and other products for Mexico.

Non-PCB Capacitor

Capacitor used in ballasts to help provide power factor correction. Contains no polychlorinated biphenyls and meets EPA requirements.

Normal Power Factor

Ballasts with power factor less than .90 that do not incorporate any means of Power Factor Correction.

Open Circuit Voltage (OCV)

Open Circuit Voltage measured across the socket the lamp screws into, with the ballast powered on. It is dangerous to stick a voltmeter into such a socket without precise knowledge of the ballast because high voltages and voltage pulses could be present.

Operating Voltage

For electrical discharge lamps, this is the voltage measured across the discharge when the lamp is operating. It is governed by the contents of the chamber and is somewhat independent of the ballast and other external factors.

PAR Lamp

PAR is an acronym for parabolic aluminized reflector. A PAR lamp, which may utilize either an incandescent filament, a halogen filament tube or an HID arc tube, is a precision pressed-glass reflector lamp. PAR lamps rely on both the internal reflector and prisms in the lens for the control of the light beam. Today it is common to refer to LED replacement products for PAR lamps as "LED PAR Lamps" even though there may be no parabolic reflector in the package.

Parallel Lamp Operation/Parallel Wiring

Refers to ballasts that employ multiple output current paths from a single ballast to allow lamps to operate independent of one another, allowing other lamps operated by the ballast to remain lit should companion lamp(s) fail (see SERIES LAMP OPERATION).

PCB (Polychlorinated Biphenyls)

Chemical pollutant formerly used in ballast capacitors that were part of ballasts. It is now illegal to use PCBs and most such ballasts have been replaced over time.

Phosphor

An inorganic chemical compound processed into a powder and deposited on the inner glass surface of fluorescent tubes and some mercury and metal-halide lamp bulbs. Phosphors are designed to absorb short-wavelength ultraviolet radiation and to transform and emit it as visible light.

Photometry

The measurement of light and related quantities.

Photopic (see SCOTOPIC/PHOTOPIC).

Potting

Material used to completely surround and cover components of some magnetic and electronic ballasts. Potting compound fulfills functions of protecting components, dampening sound, and dissipating heat.

Power Factor (PF)

A measure of the phase difference between voltage and current drawn by an electrical device, such as a ballast or motor. Power factors can range from 0 to 1.0 with 1.0 being ideal. Power factor is sometimes expressed as a percent. Incandescent lamps have power factors close to 1.0 because they are simple "resistive" loads. The power factor of a fluorescent and HID lamp system is determined by the ballast used. "High" power factor usually means a rating of 0.9 or greater. Power companies may penalize users for using low-power-factor devices.

Power Factor Corrected

Ballasts that incorporate a means of Power Factor Correction yielding power factor of 90% or greater.

Precise™

The GE trade name for the compact MR-16 and MR-11 low-voltage halogen dichroic cool beam reflectorized spot and flood lamps.

Preheat Circuit

A type of fluorescent lamp-ballast circuit used with the first commercial fluorescent lamp products. A push button or automatic switch is used to preheat the lamp cathodes. Starting the lamp can then be accomplished using simple "choke" or reactor ballasts. A preheat fluorescent lamp is one in which the filament must be heated by use of a starter before the arc is created. These lamps are typically operated with electromagnetic ballasts.

Product Code

It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

Programmed Rapid Start

Lamp starting method which preheats the lamp filaments while not allowing the lamp to ignite and then applies the open circuit voltage (OCV) to start the lamp. The user may experience a half- to one-second delay after turning on the

lamps while the preheating takes place. This type of starting circuit keeps lamp end blackening to a minimum and improves lamp life performance, especially in applications where the lamps are frequently switched on and off.

PulseArc®

GE metal halide lamp that provides improved lumen maintenance for longer useful life and extended relamp cycles. These products are designed to operate on ballasts that have ignitors to help with lamp starting.

Pulse Start

A lamp that requires an HID ballast with a high-voltage ignitor to start the lamp.

Quartz

A name for fused silica or melted sand from which many high-temperature containers are fashioned in the lighting industry. Quartz looks like glass but can withstand the high temperatures needed to contain high-intensity arc discharges.

Quartz-Halogen Lamp (see HALOGEN LAMP).

Quartzline®

A GE registered trademark term for some types of halogen lamps.

Radiation

A general term for the release of energy in a "wave" or "ray" form. All light is radiant energy or radiation, as is heat, UV, microwaves, radio waves, etc.

Rapid Start

Lamp starting method in which lamp filaments are heated while open circuit voltage (OCV) is applied to facilitate lamp ignition. A Rapid Start fluorescent lamp has two pins at each end connected to the filament. Some rapid start lamps may be instant-started without filament heat, for example, the F32T8 lamp.

Rapid Start Circuit

A fluorescent lamp-ballast circuit that utilizes continuous cathode heating, while the system is energized, to start and maintain lamp light output at efficient levels. Rapid start ballasts may be either electromagnetic, electronic or of hybrid designs. Full-range fluorescent lamp dimming is only possible with rapid start systems.

Rare Earths

A family of natural elements in the Periodic table. Rare earth compounds form an important part of the modern phosphors used in fluorescent lamps and LEDs.

Rated Lamp Life

For most lamp types, rated lamp life is the length of time of a statistically large sample between first use and the point when 50% of the lamps have died. It is possible to define "useful life" of a lamp based on practical considerations involving lumen depreciation, color shift and also on the need to reduce lamp replacement costs (see GROUP RELAMPING).

Reflector Lamp (R)

A light source with a built-in reflecting surface. Sometimes, the term is used to refer specifically to blown bulbs like the "R" and "ER" lamps; at other times, it includes all reflectorized lamps like PAR and MR.

Room Cavity Ratio (RCR)

A shape factor (for a room, etc.) used in lighting calculations.
 $RCR = 5H(L+W) / L \times W$, or, alternately,
 $RCR = (2.5) \text{ Total Wall Area} / \text{Floor Area}$.

Where H = height, L = length and W = width of the room. A cubical room will have an RCR of 10; the flatter the room the lower the RCR.

RP

A series of "Recommended Practices" issued by the Illuminating Engineering Society for various lighting applications, e.g. RP 1 for Office Lighting, RP 8 for Roadway Lighting, RP 29 for Museum Lighting, etc.

Scotopic/Photopic (S/P) Ratio

This measurement accounts for the fact that of the two light sensors in the retina, rods are more sensitive to blue light (scotopic vision) and cones to yellow light (photopic vision). The Scotopic/Photopic (S/P) Ratio is an attempt to capture the relative strengths of these two responses. S/P is calculated as the ratio of scotopic lumens to photopic lumens for the light source on an ANSI reference ballast. Cooler sources (higher-color-temperature lamps) tend to have higher values of the S/P Ratio compared to warm sources.

Self-Ballasted Lamps

A discharge lamp with an integral ballasting device allowing the lamp to be directly connected to a socket providing line voltage (see CFL).

Series Lamp Operation

Refers to ballasts that employ a single current path passing through all lamps operated by the ballast. If one lamp should fail, companion lamps operated by the same ballasts will also extinguish or dim.

Spacing to Mounting Height Ratio

Ratio of fixture spacing (distance apart) to mounting height above the work plane; sometimes called spacing criterion. It is OK to have fixture spaced closer than the spacing criterion suggested by the manufacturer but not farther, or you will get dark spots in-between fixtures.

Specification Series (SP) Colors

Energy-efficient, all-purpose tri-phosphor fluorescent lamp colors that provide good color rendering. The CRI for SP colors is 70 or above and varies by specific lamp type. See Lamp Color Chart on inside back cover.

Specification Series Deluxe (SPX) Colors

Energy-efficient tri-phosphor fluorescent lamp colors that provide better color rendering than Specification Series (SP) colors. The CRI for SPX colors is 80 or higher and varies by specific lamp type. All GE CFL products use SPX phosphors. See Lamp Color Chart on inside back cover.

Specification Series Deluxe eXtreme (SPXX) Colors

A color designation for GE ceramic metal halide lamps with superior color rendering ~ 90.

Specular Reflection

Reflection from a smooth, shiny surface, as opposed to diffuse reflection.

Spectral Power Distribution (SPD)

A graph of the radiant power emitted by a light source as a function of wavelength. SPDs provide a visual profile or "fingerprint" of the color characteristics of the source throughout the visible part of the spectrum. Also called "spectral curve" or "spectrum."

Spiral® Lamp

GE trademark for its helical family of high-efficiency, long-life compact fluorescent lamps.

Starcoat®

GE's special barrier coating applied on the inside

of all GE T8 fluorescent lamps, as well as some other lamp types, to enhance lamp life and deliver superior lumen maintenance.

Starter

An electronic module or device used to assist in starting a discharge lamp, typically by providing a high-voltage surge (see IGNITOR).

Starting Temperature (Minimum)

The minimum ambient temperature at which the lamp will start reliably on the ballast.

T12, T8, T5

A designation for the diameter of a tubular bulb in eighths of an inch; T12 is 12 eighths of an inch, or 1-1/2 inches; T8 is 1 inch, and so on.

Task Lighting

Supplemental lighting provided to assist in performing a localized task, e.g. a table lamp for reading or an inspection lamp for fabric inspection.

Terminal-to-Terminal Starting Lamp Voltage (VRMS) (Minimum or Maximum)

The minimum or maximum voltage allowed into lamp from ballast under varying conditions as specified.

TCLP Test

The Toxicity Characteristic Leaching Procedure (TCLP) test, specified in the Resource Conservation and Recovery Act (RCRA) of 1990, is used to characterize fluorescent lamp waste as hazardous or nonhazardous waste. The TCLP test measures the ability of the mercury and/or lead in a lamp to leach from a landfill into ground water.

THD (see TOTAL HARMONIC DISTORTION).

TM21

Technical Memorandum developed by the Illuminating Engineering Society to provide method for projecting lumen maintenance of an LED source, array or module as a function of temperature. This will allow LED Luminaire manufacturers to predict lumen depreciation in their fixtures, based on the operating temperature of the LED in that package. See also, "L70, L85, etc."

Total Harmonic Distortion (THD)

A measure of the distortion of the input current on alternating current (AC) power systems caused by higher order harmonics of the fundamental frequency (60Hz in North America). THD is expressed in percent and may refer to individual electrical loads (such as a ballast) or a total electrical circuit or system in a building. ANSI C82.77 recommends THD not exceed 32% for individual commercial electronic ballasts, although some electrical utilities may require lower THDs on some systems. Excessive THDs on electrical systems can cause efficiency losses as well as overheating and deterioration of system components.

Transients

High voltage surges through an electrical system caused by lightning strikes to nearby transformers, overhead lines or the ground. May also be caused by switching of motors or compressors, as well as by short circuits or utility system switching. Can lead to premature ballast failure (see TVSS).

TRIAC

Genericized tradename for "Triode for Alternating Current," a device at the heart of many common residential dimmers. TRIACs reduce the current by "chopping off" portions of the AC waveform, and

may adversely affect ballasts and drivers that are not designed to accept such waveform inputs.

Troffer

A long, recessed lighting unit, usually installed in an opening in the ceiling.

Tungsten Halogen Lamp (see HALOGEN LAMP).

TVSS

Transient Voltage Surge Suppressors, which will protect ballasts and other electronic equipment from transient high-voltage spikes that may be present in the power line.

Two-Pin Compact Fluorescent Lamps

Type of lamps that have the glow bottle starter built into the base of the lamp. Traditionally 2-pin lamps are designed to work with electromagnetic ballasts (see FOUR-PIN COMPACT FLUORESCENT LAMPS).

Ultra

A common way of referring to high-efficiency GE T8 family of lamps and Ballast that performs better than standard T8 lamps. Also refers to the system.

UltraMax® Ballast

A family of high-efficiency GE instant-start electronic linear fluorescent ballasts designed to optimize GE's T8 Ultra lamps for enhanced system energy savings. UltraMax® ballasts have a low lamp current crest factor and virtually "read" and adapt to incoming voltage from 108V to 305V. Other features include UL Type CC Anti-Arc Rating and anti-striation control to eliminate lamp striations and spiraling. GE also has an UltraMax® HID ballast which can operate PulseArc® and CMH® lamps anywhere from 250 watts to 400 watts and provides greatly improved lumen maintenance.

UltraStart® Ballast

A family of high-efficiency GE Program Start electronic linear fluorescent ballasts designed to optimize GE's T8 Ultra lamps in frequently switched applications. Instant-start ballast provides 10,000 starts. UltraStart® provides 100,000 to 200,000 starts. Use program start ballast to ensure long lamp life when turning lamps on and off more than twice a day.

Ultraviolet (UV) Radiation

For practical purposes, any radiant energy within the range of 100–380 nanometers. It is beyond the blue or violet region of the spectrum, and is invisible to the eye just like the silent "ultrasound" dog whistle is inaudible to the ear.

UV is divided into 3 regions:

| | |
|----------|---------------|
| UVC..... | 100 to 280 nm |
| UVB..... | 280 to 315 nm |
| UVA..... | 315 to 400 nm |

Some wavelengths (180–220) produce ozone, some (220–300) are bactericidal, some (280–320) erythema (reddening human skin); others (320–400) cause secondary luminance (black light).

Ultra Watt-Miser®

GE's family of energy-saving T8 fluorescent lamps.



Underwriters Laboratories (UL)

A private organization which tests and lists electrical (and other) equipment for electrical and fire safety according to recognized UL and other standards. A UL listing is not an indication of overall performance. Lamps are not UL listed except for compact fluorescent lamp assemblies – those with screw bases and built-in ballasts.

Glossary of Terms

Uniform Product Code (UPC)

The 12-digit code on the saleable unit that is used for scanning at the register.

Veiling Reflection

Effective reduction in contrast between task and its background caused by the reflection of light rays; sometimes called "reflected glare." You might have dealt with veiling reflections when you have to tilt a shiny magazine to avoid glare so as to read it, or struggled with reading a computer monitor because of the reflection of a window or a light fixture.

Visual Comfort Probability (VCP)

For a given lighting scheme, VCP is a ratio expressed as a percent of people who, when viewing from a specific location and in a specified direction, find the system acceptable in terms of glare (see GLARE).

Volt

A measure of "electrical pressure" between two points. The higher the voltage, the more current will be pushed through a resistor connected across the points. The volt specification of an incandescent lamp is the electrical "pressure" required to drive it at its designed point. The "voltage" of a ballast (e.g. 277 V) refers to the line voltage it must be connected to.

Voltage

A measurement of the electromotive force in an electrical circuit or device expressed in volts. Voltage can be thought of as being analogous to the pressure in a waterline.

Voltage Surge

Transient spikes in line voltage that can be harmful to electronic equipment like computers and electronic ballasts. Surge suppressors are often used to protect against such transients.

Wall Temperature (Maximum Bulb)

The maximum operating bulb wall temperature in Celsius.

Warm-Up Time

HID lamps typically take a few minutes to warm up to full brightness after starting.

Warm-Up Time to 90%

The time it takes for a High Intensity Discharge lamp to reach 90% of light output after being turned on.

Warm White

Refers to a color temperature around 3000K, providing a yellowish-white light.

Watt

A unit of electrical power. Lamps are rated in watts to indicate the rate at which they consume energy (see KILOWATT HOUR).

Wattage Indicator Reduced

Indicates that this is a reduced wattage option for lamps normally used in this application. Be sure to check wattage, lumens and life to determine which lamp is best suited to your needs.

Watt-Miser®

A Watt-Miser® lamp is a term used by GE to indicate a reduced-wattage lamp with performance characteristics (life, light output, etc.) such that it can usually directly replace a higher-wattage product. Watt-Miser® lamps are available in a wide range of incandescent, fluorescent and HID lamp types.

Wavelength

The distance between two neighboring crests of a traveling wave. The wavelength of light is between 400 and 700 nanometers.

The Value of Lighting Upgrades

About 35% of the electricity bill of commercial and industrial buildings is lighting. Upgrading to more energy-efficient lighting is an easy way to significantly reduce the overhead costs of running a business. Additional savings can be realized from using long-life lamps that reduce maintenance costs. Further, energy-efficient lighting also reduces the air-conditioning load on the HVAC system and provide greater energy savings.

Users need to be reminded that energy is usually the highest portion of the cost of lighting. A single T12 lamp will use about \$100 of energy over its life; a single 400W metal halide lamp will use over \$1000 in energy over life.

Remember, the products currently used in many buildings today are using products that are effectively obsolete due to technology improvements that have occurred over the last few years. There are several additional reasons to consider lighting upgrades today.

- 1) Legislation: many less-efficient products are being phased out by Government regulation. In each case there are better, more efficient, longer life replacements available that bring benefit both to the end-user and to the national economy because of energy savings.
- 2) Energy Reduction, both direct and indirect HVAC
- 3) Improvements in ambiance, productivity and user-satisfaction
- 4) Maintenance savings from longer life products
- 5) Environmental benefits from reduced energy consumption leading to reduced emissions, reduced or no-mercury, longer life.
- 6) Rebates offered by many utility companies. These rebates may go away as more and more inefficient products are eliminated
- 7) Tax deduction provisions of the Energy Policy Act (EPASCT) for lighting upgrades completed by end of 2013

Upgrades can involve something as simple as unscrewing the old bulb and screwing in the new bulb. However, in many cases ballasts and lamps are replaced in the existing fixture, or a retrofit kit is used to insert new holders and reflectors. Sometimes it is economically justified to replace the entire fixture with a new fixture.

Affected products that have been eliminated by legislation or are facing elimination in the immediate future based on efficiency requirements are listed in the next column:

Products Eliminated by Legislation

Incandescent Bulbs: Incandescent bulbs convert only 4% to 7% of the electrical energy into light; the rest is wasted as heat. Legislation in the US and many other countries is progressively banning the use of incandescent bulbs in most regular applications. A single incandescent 100-watt bulb operated for an entire year (8760 hrs.) will require the burning of over 1000 pounds of coal in a coal-fired power plant to generate the electricity it uses. Replacing it with an efficient LED or CFL (Compact Fluorescent Lamp) will cut energy consumption and greenhouse gas emission by 75% in addition to saving over \$70 per socket at the prevailing average national energy rate of 11 cents per kWh. These products also last 10 times to 30 times longer!

Halogen Reflector Lamps: Although more efficient than standard incandescent lamps, halogen lamps are still using a hot tungsten filament to generate light. The latest HIR+ products from GE use an infra-red reflecting film in the filament tube, and silverized reflectors to increase performance. Upgrading to these HIR+ products or to significantly more efficient, long life LED products provide significant energy savings. In many cases CMH (ceramic Metal Halide) reflector lamps can be considered, either with integral ballasts or with external ballasts. Halogen floods can be replaced with CFLs.

T12 Linear Fluorescent Lamps and some lower-performing T8s: These have been legislated away since very efficient, high-performance T8 systems are available. Also, LED fixtures are becoming a viable option to be considered for offices and classrooms. It is possible to obtain up to 45% energy savings with out loss of light when upgrading from T12 systems.

Standard Metal Halide lamps and ballasts: The old "probe start" metal halide lamps on magnetic ballasts are now eliminated by legislation for new construction, although replacement products for existing installations are still available. Upgrade options include Pulse-Start or CMH (Ceramic Metal Halide) on magnetic or electronic ballasts. For Industrial and High-bay attractive financial returns can be obtained by going to multi-lamp T8 or T5/HO fixtures. In outdoor lighting applications like parking lots and roadway, many users are upgrading from HID to LED fixtures for energy and maintenance savings.

Contact your GE distributor or GE sales rep for a simple lighting audit and a financial analysis of the benefits of lighting upgrades at your facility.

LEDs for General Lighting

LED (Light Emitting Diode) is a semiconductor chip that emits visible light when energized. LEDs are also referred to as solid state lighting (SSL) devices.

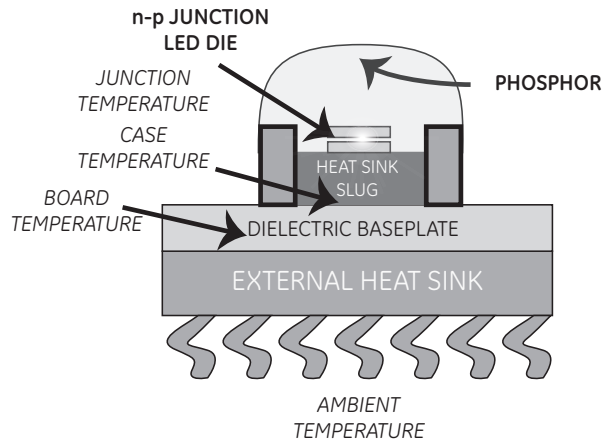
One of the first references to LEDs came in 1907 when Marconi's assistant Henry Round reported it in a letter to *Electrical World* after observing light emission from carborundum (silicon carbide, SiC). Round was experimenting with cat's whisker detectors, a device used in early crystal radios. Later, in 1920 the Russian scientist Oleg Losov studied the phenomenon in greater detail, publishing a number of papers on the current-voltage characteristics of SiC.

However the modern father of visible LEDs is considered to be Nick Holonyak who invented a red LED in 1962 while working at a GE lab in Syracuse, NY. Later, he moved to the University of Illinois at Urbana and a student of his, George Craford went on to invent yellow, orange and green LEDs. Finally, in the 1990s, several researchers at Nichia laboratories in Japan found ways to make efficient blue LEDs and the modern white LED was born.

Light emission from LEDs

LEDs are made of semiconducting material, not unlike what is found in transistors and computer chips. Electrons from the "n" or negative material flow into the "p" or positive material across a junction, where they encounter "holes". When an electron falls into a hole a photon is emitted corresponding in energy to the energy lost by the electron.

If this primary photon is in the blue region of the spectrum, it is possible to add phosphors that absorb the high energy blue photon and re-emit lower energy photons of green, yellow, orange or red colors. Based on the thickness and composition of the phosphor, the color of the LED source can be changed from blue to cool white to very warm white. In general, the higher color temperature LEDs (cool color) have less phosphors and are more efficient with higher lumens per watt (LPW). Warm LEDs have to use more phosphor and pay a small price in LPW if the warmer color is desired.



Schematic of an LED Device

Key determinants of performance

Long-term performance of LEDs is critically determined by the junction temperature of the LED—the junction being the layer where most of the primary light emission is occurring. Even though each individual LED generates only about a watt of heat, this heat can destroy the semiconductor material if it is not rapidly conducted away.

The LED chip manufacturer will often rate the LED at 100,000 hours based on the junction temperature being kept below a specified point. If overheated, a 100,000 hour LED can easily die in 10,000 hours or 1000 hours, or even 100 hours.

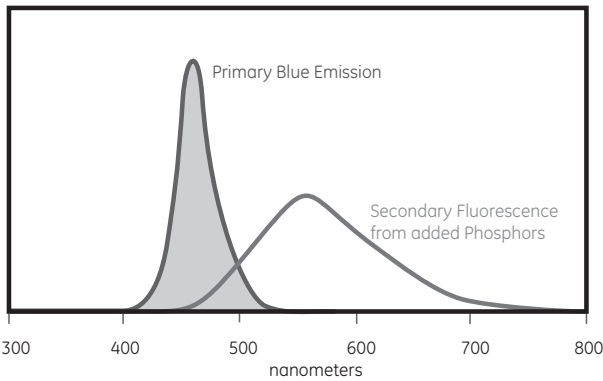
Thermal management of the LED, achieved through well designed heat-sinks and conduction paths is the key factor that determines LED longevity. Reliable life testing of LEDs in the finished configuration under field conditions is the only way to determine how long an actual lamp or fixture is likely to last. ANSI standard TM21 specifies how to test and rate LED life and all reputable LED manufacturers will refer to this document to validate their life ratings.

Sorting (binning) of LEDs

LED manufacturers constantly work to manage process variation and maximize yield. To this end, LEDs are sorted by three criteria—forward voltage, light output and color—and placed in appropriate "bins." ANSI requirements call for roughly a "seven step" equivalent cell, each step being the minimum color difference perceptible to the human eye. However, for more demanding applications, it is possible to pay a little more and require tighter binning, e.g. to three-steps.

The Future of LEDs

LEDs are the most promising breakthrough in Lighting in half a century. The boundaries of efficiency and life are being extended almost on a daily basis. The US Department of Energy says, "... Light Emitting Diodes (LEDs), has the potential to revolutionize the efficiency, appearance, and quality of lighting as we know it." Some experts estimate that LEDs might approach 200 lumens per watt within a few years.



Obtaining white light from blue LEDs

Ballast cross reference matrix

| Prod Code | Description | Advance P/N | Universal P/N | OSI P/N |
|--|-------------------|-----------------------------|-----------------------------|---|
| T8 Fluorescent Ballasts | | | | |
| T8 INSTANT START BALLASTS | | | | |
| UltraMax® Professional Series Instant Start Multi-Voltage High Efficiency | | | | |
| 72258 | GE132MAXP-L/ULTRA | IOP-1P32LW-SC | B132IUNVEL-A | QHE1X32T8/UNV ISL-SC-1 |
| 72259 | GE132MAXP-N/ULTRA | IOP-1P32-SC | B132IUNVHE-A | QHE 1X32T8/UNV ISN-SC-1 |
| 63885 | GE132MAXP-H/ULTRA | IOP-1P32HL-SC | | NA |
| 73190 | GE232MAXP-H/ULTRA | IOP-2P32HL-SC | B232IUNVHEH-A | QHE2X32T8/UNV-HT-SC-1 |
| 72262 | GE232MAXP-L/ULTRA | IOP-2P32LW-SC | B232IUNVEL-A | QHE2X32T8/UNV ISL-SC-1 |
| 72266 | GE232MAXP-N/ULTRA | IOP-2P32-SC | B232IUNVHE-A | QHE 2X32T8/UNV ISN-SC-1 |
| 71421 | GE232MAXP-N+ | | NA | QHE 2X32T8/UNV ISM-SC |
| 71714 | GE332MAXP-H/ULTRA | IOP-3P32HL-90C-SC | B332IUNVHEH-A | NA |
| 71717 | GE332MAXP-L/ULTRA | IOP-3P32LW-SC | B332IUNVEL-A | QHE3X32T8/UNV ISL-SC-1 |
| 71719 | GE332MAXP-N/ULTRA | IOP-3P32-SC | B332IUNVHE-A | QHE 3X32T8/UNV ISN-SC-1 |
| 71422 | GE332MAXP-N+ | | | QHE 3X32T8/UNV ISM-SC |
| 71723 | GE432MAXP-H/ULTRA | IOP-4P32HL90CG | | QHE4X32T8/UNV-HT-SC-1 |
| 71725 | GE432MAXP-L/ULTRA | IOP-4P32LW-SC | B432IUNVEL-A | QHE4X32T8/UNV ISL-SC-1 |
| 71727 | GE432MAXP-N/ULTRA | IOP-4P32-SC | B432IUNVHE-A | QHE 4X32T8/UNV ISN-SC-1 |
| 74117 | GE632MAXP-H90 | | NA | NA |
| 71423 | GE432MAXP-N+ | | NA | QHE 4X32T8/UNV ISM-SC |
| 72261 | GE159MAXP-N/ULTRA | IOP-2P59-SC | NA | NA |
| 73199 | GE259MAXP-L/ULTRA | | B259I120HPL / B259I277HPL | QHE 2x59T8/UNV-ISI-SC |
| 49767 | GE259MAXP-N/ULTRA | IOP-2P59-SC | NA | QHE 2x59T8/UNV ISN-SC-B |
| UltraMax® Professional Series Instant Start 347V High Efficiency | | | | |
| 67435 | GE232MAXP347-N+ | NA | NA | |
| 74093 | GE232MAXP347-N | GOPA-2P32-SC | | QHE2X32T8/347 ISN-SC |
| 74094 | GE332MAXP347-N | GOPA-3P32-SC | | QHE3X32T8/347 ISN-SC |
| 74095 | GE432MAXP347-N | GOPA-4P32-SC | | QHE4X32T8/347 ISN-SC |
| 74096 | GE232MAXP347-L | GOPA-2P32-LW-SC | B232I347L-A, B232I347HPL | QHE2X32T8/347 ISL-SC, QT2X32T8/347 ISL-SC |
| 74097 | GE332MAXP347-L | GOPA-3P32-LW-SC | B332I347L, B332I347HPL | QHE3X32T8/347 ISL-SC |
| 74098 | GE432MAXP347-L | GOPA-4P32-LW-SC | B432I347L, B432I347HPL | QHE4X32T8/347 ISL-SC, QT4X32T8/347 ISL-SC |
| 74109 | GE232MAXP347-H | | | QT2X32T8/347 ISH-SC |
| 74111 | GE332MAXP347-H | | B332IHRVH-E, B332IHRVHB-E | |
| 74113 | GE432MAXP347-H | | | |
| UltraMax® Professional Series T8 Instant Start 480V High Efficiency | | | | |
| 62718 | GE232MAXP480-H | | | |
| 62719 | GE332MAXP480-H | | B332IHR VHB-E | |
| 62720 | GE432MAXP480-H | | | QHE4X32T8/347-480 ISH-HT |
| UltraMax® General Series T8 Multivolt 120V - 277V | | | | |
| 72269 | GE132MAX-G-N | ICN-1P32-SC / IOPA-1P32-SC | B132IUNVHP-B | QTP 1X32T8/UNV ISL-SC/ QHE 1X32T8/UNV ISN-SC |
| 74803 | GE232MAX-G-H | IOPA-2P32-HL | B232I120RHH-A/B232I277RHH-A | QTP 2X32T8/UNV ISH-SC/ QHE 2X32T8/UNV ISH-SC |
| 67911 | GE432MAX-G-H | IOP-4P32HL-SC | B432I277HEH | |
| 72273 | GE232MAX-G-L | ICN-2P32LW-SC / IOPA-2P32LW | B232I120L-A/B232I277L-A | QTP 2X32T8/UNV ISL-SC/ QHE 2X32T8/UNV ISL-SC |
| 72275 | GE232MAX-G-N | ICN-2P32-SC / IOPA-2P32-SC | B232IUNVHP-B | QTP 2X32T8/UNV ISN-SC/ QHE 2X32T8/UNV ISN-SC |
| 74461 | GE332MAX-G-H | IOPA-3P32-HL | B332I120RHH-A/B332I277RHH-A | QTP 3X32T8/UNV ISH-SC/ QHE 3X32T8/UNV ISH-SC |
| 74459 | GE332MAX-G-L | ICN-3P32LW-SC / IOPA-3P32LW | B332I120L-A/B332I277L-A | QTP 3X32T8/UNV ISL-SC/ QHE 3X32T8/UNV ISL-SC |
| 74456 | GE332MAX-G-N | ICN-3P32-SC / IOPA-3P32-SC | B332IUNVHP-B | QTP 3X32T8/UNV ISN-SC/ QHE 3X32T8/UNV ISN-SC |
| 69711 | GE432MAX-G-H | IOPA-4P32-HL | B432I120RHH-A/B432I277RHH-A | QHE 4X32T8/UNV ISH-SC |
| 74466 | GE432MAX-G-L | ICN-4P32LW-SC / IOPA-4P32LW | B432I120L-A/B432I277L-A | QTP 4X32T8/UNV ISL-SC/ QHE 4X32T8/UNV ISL-SC |
| 30193 | GE432MAX-G-N | ICN-4P32-SC IOPA-4P32SC | B432IUNVHP-B | QTP 4X32T8/UNV ISN-SC/ QHE 4X32T8/UNV ISN-SC |
| 72271 | GE159MAX-G-N | | | |
| 74469 | GE259MAXP-G-N | NA | B259IUNVHP-B | QTP 2X59T8/UNV ISN-SC/ QHE 2X59T8/UNV-ISN-SC |
| UltraMax® Professional Series T8 Instant Start High Output | | | | |
| 63888 | GE286MAXP-HO-N | ICN-2S86 | B286I120RH / B286I277RH | QHE 2X86T8HO/UNV-PSN-HT-SCL/ QHE2X59T8/UNV-ISH |
| UltraMax® General Series T8 Multivolt 347V | | | | |
| 74101 | GE132MAX-G-N-347 | | B132I347HP, B132I347RH | QHE1X32T8/347 ISN-SC, QTP1X32T8/347 /ISN-SC |
| 74103 | GE232MAX-G-N-347 | | B232I347HP-A, B232I347RH-A | QTP2X32T8/347 ISN-SC |
| 74105 | GE332MAX-G-N-347 | | B332I347HP | QT3X32T8/347 ISN-SC |
| 74107 | GE432MAX-G-N-347 | | B432I347HP, B432I347RH | QT4X32T8/347 ISN-SC |
| 74099 | GE259MAX-G-N-347 | | B259I347HP | QT2X59/347 IS |

Ballast cross reference matrix (cont.)

| Prod Code | Description | Advance P/N | Universal P/N | OSI P/N |
|--|-------------------|-------------------------------|---------------------------|-------------------------------|
| T8 Fluorescent Ballasts - Continued | | | | |
| T8 INSTANT START BALLASTS - CONTINUED | | | | |
| Residential Grade ProLine® T8 120V | | | | |
| 97782 | GE232-120-RES | REB232-SC | B232I120RES-A | QTR 2x32T8/120 ISN-SC |
| 97783 | GE432-120-RES | REB4P32-SC | B432I120RES-A | QTR 4x32T8/120 ISN-SC |
| Electromagnetic T8 Ballasts | | | | |
| 87125 | GEM232T8RS120 | R-2P32-TP | M232SR120C | |
| T8 PROGRAM START BALLASTS | | | | |
| UltraStart® T8 Program Rapid Start | | | | |
| 75952 | GE132-MVPS-L | IOP-1S32-LW-SC | | QTP 1x32T8/UNV PSX-TC |
| 75953 | GE132-MVPS-N | IOP-1S32-SC | B132PUNVHP-A | QTP 1X32T8/UNV PSN-TC |
| 75954 | GE132-MVPS-H | | | |
| 96714 | GE232-MVPS-N | IOP-2S32-SC | B232PUNVHP-A | QTP 2X32T8/UNVPSN-TC |
| 96720 | GE232-MVPS-L | IOP-2S32-LW-SC | | QTP 2X32T8/UNV PSX-TC |
| 29675 | GE-232-MVPS-H | | | QHE2x32T8/UNV-PSH-HT |
| 29671 | GE-232-MVPS-XL | | | |
| 29676 | GE-332-MVPS-H | | | |
| 96715 | GE332-MVPS-N | IOP-3S32-SC | B332PUNVHP-A | QTP 3X32T8/UNVPSN-SC |
| 96721 | GE332-MVPS-L | IOP-3S32-LW-SC | | QTP 3X32T8/UNV PSX-SC |
| 29672 | GE-332-MVPS-XL | | | QHE3x32T8/UNV-PSH-HT |
| 96716 | GE432-MVPS-N | IOP-4S32-SC | B432PUNVHP-A | QTP 4X32T8/UNVPSN-SC |
| 71832 | GE432-MVPS-L | IOP-4S32-LW-SC | | QTP 4X32T8/UNV PSX-SC |
| 29678 | GE-432-MVPS-H | | | QHE4x32T8/UNV-PSH-HT |
| T8 Bi-Level Instant Start Step Dimming 100% to 60% | | | | |
| 73233 | GE232MAXP90-S60 | | | |
| 73231 | GE332MAXP90-S60 | | | |
| 73229 | GE432MAXP90-S60 | | | |
| 71497 | GE632MAXP-H90-S60 | | | |
| T8 Bi-Level Instant Start Load Shedding 100% to 60% | | | | |
| 73234 | GE232MAXP90-V60 | | | |
| 73232 | GE332MAXP90-V60 | | | |
| 73230 | GE432MAXP90-V60 | | | |
| 71731 | GE632MAXP-H90-V60 | | | |
| T8 Bi-Level Program Start Step Dimming 100% to 30% | | | | |
| 68966 | GE132MVPS-N-S30 | | | |
| 68967 | GE232MVPS-N-S30 | IOP-232-SC-SD | B232PUS50PLA | QHE2x32T8PSN |
| 68968 | GE132MVPS-L-S30 | | | QHE2x32T8PSL |
| T8 Program Start 0-10v Dimming 100% to 3% | | | | |
| 75379 | GE132MVPS-N-V03 | IZT-132-SC | B132R120V5 / B132SR277V5 | |
| 75380 | GE232MVPS-N-V03 | IZT-232-SC/ILV-2S32-SC | B232SR120V5 / B232SR277V5 | |
| 75381 | GE332MVPS-N-V03 | IZT-332-SC | B332SR120V5 / B332SR277V5 | |
| 75382 | GE432MVPS-N-V03 | IZT-432-SC/ILV-4S32-G | B423SR120V5/ B432SR277V5 | QTP 4x32T8/ 277 DIM PLUS-TCL |
| 75383 | GE232MVPS-H-V03 | | | |
| 75384 | GE332MVPS-H-V03 | | | |
| 75385 | GE432MVPS-H-V03 | | | |
| T5 Fluorescent Ballasts | | | | |
| T5 ELECTRONIC PROGRAMMED START BALLASTS | | | | |
| UltraStart® T5 Programmed Rapid Start | | | | |
| 68994 | GE228MVPSH-MC-H | IOP2S28115SC | B228PUNV115-D | QTP2X28T5/UNVPSN NL |
| 68993 | GE228MVPS-MC | IOP2S2895SC | B228PUNV95-D | QTP2X28T5/UNVPSN-E |
| 68976 | GE-224MVPS-N | ICN-2S24 | B224PUNV-D | QTP2X39-24T5HO/UNVPSN NL |
| 47540 | B239PUNV-D | ICN-2S39 | B239PUNV-D | QTP2X39-24T5HO/UNVPSN NL |
| 67562 | GE254MVPS90-A | ICN-2S54-90C | B254PUNV-D | QTP 2X54T5HO/UNV PSN HT |
| 33957 | GE254MVPS-D-1 | ICN-2S54 | B254PUNV-D | QTP2X54T5HO/UNVPSN NL |
| 94131 | GE454MVPS90-E-S | ICN4S5490C2LSG | B454PUNV-E | QTP 4X54T5HO/UNV PSN HTW NL |
| 67566 | GE454MVPS90-F | ICN4S5490C2LS | | QTP 4X54T5HO/UNV PSN HT |
| 72280 | GE180MVPS-D | ICN-1S80-120V / ICN-1S80-277V | ES4515K | QTP1X80T5HO/UNVPSN NL |
| UltraStart® T5 Programmed Rapid Start 347-480V | | | | |
| 62728 | GE254PS347/480-F | HOP2PSP54L/347-480V | B254PHRVHB-E | QHE2x54T5HO/347-480PSN-HT |
| 62729 | GE254PS347-F | HOP2PSP54L/347V | | |
| 62730 | GE454PS347/480-E | HOP4PSP542LSG/347-480V | | QHE4x54T5HO/347-480PSN-HT-SCL |
| 62731 | GE454PS347-F | HOP4PSP542LSG/347V | | |

| Prod Code | Description | Advance P/N | Universal P/N | OSI P/N |
|---|--------------------|--|---------------------------------|--|
| T12 Fluorescent Ballasts | | | | |
| T12 ELECTRONIC BALLASTS | | | | |
| ProLine® T12 Multivolt 120V - 277V | | | | |
| 74472 | GE-240-RS-MV-N | ICN-2S40-N | B240R120HP/B240R277HP | QTP2X40T12/120RSN-SC / QTP2x40T12/277 RSN-SC |
| 97498 | GE240RS120 | REL-2S40-SC/RELB-2S40-SC | B234SR120M-A | QTP2X40T12/120RSN-SC |
| 75672 | GE140RS120 | REL-1S40-SC | B134SR120M-A | QTP1X40T12/120/277RSN-SC |
| 74474 | GE-260-IS-MV-N | R2E75STP | B260IUNVHP | QT2x96/120IS/QT2x96/277IS |
| 75671 | GE296HO-MV-N | REL/VEL-2P60-S-A/REL/VEL-2S110 | B295SR UNVHP/120HP/277HP | QT2x96/120HO/QT2x96/277HO |
| Magnetic Ballast | | | | |
| 68190 | GEM1FC16T9RS120 | RMS-3240-TP-W | 726VLHWSTCP | |
| 68193 | GEM1FC8T9RS120IP | RLQS-122-TP-W | 547RSWSTCP | |
| 89717 | GEM1FC12T9RS120 | RS-22-32-TP-W | 449LRWSTCP | |
| 68192 | GEM220TS120DIY | RS-2SP20-TP | 447LRLHTCP | |
| T12 Electronic for Magnetic | | | | |
| 72110 | GE140RS120 DIY RES | LC-14-20-C-TP/ HM1P30TPI | 200H2 | |
| 72110 | GE140RS120 DIY RES | RLQ-120-TP | 546BTCP | |
| 72110 | GE140RS120 DIY RES | R-140-TP | 412LSLHTCP | |
| 72110 | GE140RS120 DIY RES | RL-140-TP | 413CTCP | |
| 97498 | GE240RS120 RES | R2S34-TPI/ RS240TPI | 420LTCP | |
| 97498 | GE240RS120 RES | RM2SP30TPI | 446LSLHTCP | |
| 74472 | GE-240-RS-MV-N | V2S40TP / V2S34TPI/ V140TPI | 443LSLHTCP | |
| 74472 | GE-240-RS-MV-N | MTM-2S40-TP | 754LTCP | |
| 74474 | GE-260-IS-MV-N | RSM175STP/ SM140STPI / SM2E40STPI | 822BRTCP | |
| 74474 | GE-260-IS-MV-N | VSM175STP | 828BRTCP | |
| 74474 | GE-260-IS-MV-N | R2E75STP | 806SLHTCP | |
| 74474 | GE-260-IS-MV-N | V2E75STP | 827SLHTCP | |
| 75671 | GE296HO-MV-N | R-2S110-TP/ RC2S85TPM | 480SLHTCP | |
| 75671 | GE296HO-MV-N | V-2S110-TP/ VC2S85TPM | 487SLHTCP | |
| Sign Ballasts | | | | |
| 72103 | GESB-0412-12-IP | ASB-0412-12-BL-TP | USB-0412-12-IP | MSB-12-0412-TP |
| 72104 | GESB-0620-24-IP | ASB-0620-24-BL-TP | USB-0816-14-IP | MSB-24-0620-TP |
| 72105 | GESB-1224-24-IP | ASB-1224-24-BL-TP | USB-1024-14-IP | MSB-24-1224-TP |
| 72106 | GESB-1240-46-IP | ASB-1240-46-BL-TP | USB-2036-46-IP | MSB-46-1240-TP |
| 72107 | GESB-2040-46-IP | ASB-2040-24-BL-TP | USB-1632-24-IP | MSB-24-2040-TP |
| 72108 | GESB-2448-46-IP | ASB-2448-46-BL-TP | USB-2048-46-IP | MSB-46-2448-TP |
| Compact Fluorescent Ballasts | | | | |
| CFL ELECTRONIC | | | | |
| 63091 | GEC213-MVPS-BES | ICF-2S13-BS | C213UNVBES | QTP1/2X13CF/UNVBES |
| 63092 | GEC213-MVPS-SE | ICF-2S13-LD | C213UNVBES | QTP1/2X13CF/UNVTS |
| 63089 | GEC213-MVPS-3W | ICF-2S13-H1-LD-K | C213UNVME00K | QTP 1/2x13CF/UNV |
| 63094 | GEC218-MVPS-BES | ICF-2S18-BS | C218UNVBES | QTP1/2X18CF/UNVBES |
| 63096 | GEC218-MVPS-SE | ICF-2S18-LD | C218UNVBES | QTP1/2X18CF/UNVTS |
| 63093 | GEC218-MVPS-3W | ICF-2S18-H1-LD-K | C218UNVME000K | QTP 1/2x18CF/UNV |
| 63098 | GEC226-MVPS-BES | ICF-2S26-BS | C2642UNVBES-IP | QTP2X26CF/UNVBES |
| 63099 | GEC226-MVPS-SE | ICF-2S26-LD | C2642UNVSE-IP | QTP2X26CF/UNVTS |
| 63097 | GEC226-MVPS-3W | ICF-2S26-H1-LD-K | | QTP 1/2x26CF/UNV |
| 63101 | GEC242-MVPS-BES | ICF-2T42-M5-BS | C2642UNVBE | QTP2X26/32/42CF/UNVPM |
| 63102 | GEC242-MVPS-SE | ICF-2T42-M5-LS | C2642UNVSE | QTP2X26/32/42CF/UNVTM |
| 63100 | GEC242-MVPS-3W | ICF-2T42-M5-BS | C2642UNVSE | QTP2X26/32/42CF/UNVTM |
| 75948 | GEC140MAX-A | ICN-1TTP40 | | |
| 75950 | GEC225MVPS-A | | | |
| 71437 | GEC240MVPS-A | REL-2TTS40 | C240PUNVHP-B-IP | QHE 1x40/UNV DL ISN-SC |
| 71435 | GEC240MAX-A | RCN-2TTP40-SC / VCN2TTP40-SC / ICN-2TTP40-SC | C240SI120RH-IP / C240SI277RH-IP | QHE 2x40/UNV DL ISN-SC |
| 71436 | GEC340MAX-A | RCN-3TTP40-SC / VCN-3TTP40-SC / ICN3TTP40-SC | C340SI120RH-IP/C340SI277RH-IP | QHE 3x40/UNV DL ISN-SC |
| 87533 | GEM1CF13PH120 | LC-13-TP | 4111H2P | |
| 87655 | GEM2CF13PH277 | VH-2B13-TP-BLS | 4214PBES | |

Ballast cross reference matrix (cont.)

| Prod Code | Description | Advance P/N | Universal (Vossloh Schwabe) | OSI P/N |
|-------------------------------------|-----------------|---------------|-----------------------------|------------------------------|
| HID Electronic Ballasts | | | | |
| 87490 | GEMH20-MLF-120 | RMH-G20-K | M2012CK-7EUN-F | QTP1X20MH/UNV F |
| 74115 | GEMH20-MC-120 | RMH-G20-K | M2012CK-7EUN-F | |
| 63042 | GEMH20-MSJ-MV | IMH-G20-G | M2012-27CK-6EU-J | |
| 63043 | GEMH20-MSF-MV | IMH-G20-G | M2012-27CK-5EU-F | |
| 75378 | GEMH39-MCM-120 | RMH-39-K | M3912CK-7EUN | |
| 74116 | GEMH39-MC-120 | RMH-39-K | M3912CK-6EUN-F | |
| 87501 | GEMH39-MSF-120 | RMH-39-K | M3912CK-7EUN | QTP1X39MH/UNV F |
| 63044 | GEMH39-MSJ-MV | IMH-39-G | M3912-27CK-5EU | |
| 63045 | GEMH39-MSF-MV | IMH-39-E | M3912-27CK-6EU-F | |
| 87531 | GEMH70-MSF-120 | IMH-70-G | M7012CK-6EUN-F | QTP1X70MH/UNV F |
| 87546 | GEMH70-SLJ-MV | IMG-70-G | M7012-27CK-5EU | QTP1X70MH/UNV J |
| 87561 | GEMH100-SLJ-MV | IMG-100-A-BLS | M10012-27CK-5EU-F | QTP1X100MH/UNV J |
| 87576 | GEMH150-SLJ-MV | IMG-150-H-BLS | M15012-27CK-5EU-J | |
| HID Electromagnetic Ballasts | | | | |
| Metal Halide | | | | |
| 63073 | GEM50MLTLA3D-5 | 71A5181-500D | M50MLTLC3M500K | M50/MULTI-KIT |
| 86847 | GEM70MLTLA3D-5 | 71A5280-500D | M70MLTLC3M500K | M70/MULTI-KIT |
| 78517 | GEM70TRILC3-5 | 71A52A2-001D | M70TRILC3M502K | |
| 67337 | GEM7048TLA3D-5 | NA | M7048TLC3M500K | |
| 86675 | GEM100MLTLA3D-5 | 71A5390-001D | M100MLTLC3M500K | M100/MULTI-KIT |
| 78519 | GEM100TRILC3-5 | 71A53A0-001D | M100TRIL3M502K | |
| 67333 | GEM10048TLA3D-5 | 71A5340-500DT | M10048TLC3M500K | |
| 86718 | GEM150MLTLC3D-5 | 71A5492-500D | M150MLTLC3M500K | M150/MULTI-KIT |
| 78520 | GEM150TRILC3-5 | 71A54A2 | M150TRIL3M502K | |
| 86711 | GEM15048TLC3D-5 | 71A5442-500DT | M15048TLC3M500K | |
| 63078 | GEM175ML5AA3-5 | 71A3042-001D | M175ML5AC3M500K | |
| 78521 | GEM175TRIAC3-5 | 71A55A0-0001D | M175TRIAC30502K | |
| 86741 | GEM175MLTAA3-5 | 71A5570-001D | M175MLTAC3M500K | M175/MULTI-KIT |
| 87211 | GEM250ML5AC3-5 | 71A5750-001D | M250ML5AC3M500K | |
| 86741 | GEM250MLTAA3-5 | 71A3542-001D | M250MLTAC3M500K | M1250/MULTI-KIT |
| 78522 | GEM250TRIAC4-5 | 71A56A0-001D | M250TRIAC4M502K | |
| 87212 | GEM250ML5AA4-5 | 71A5750 | M250ML5AC4M500K | |
| 72300 | GEM400ML5AA4-5 | 71A6051-001D | M400ML5AC4M500K | |
| 72149 | GEM400MLTAA4-5 | 71A6071-001D | M400MLTAC4M500K | M400/MULTI-KIT |
| 78523 | GEM400TRIAC4-5 | 71A60A1-001D | M400TRIAC4M502K | |
| 63070 | GEM40048TAA4-5 | 71A6042-500DT | M40048TAC4M500K | |
| 78524 | GEM1000TRIAC5-5 | 71A67A2-001 | M1000TRIAC5M502K | |
| 63069 | GEM100048TAA5-5 | 71A6542-001 | M100048TAC5M500K | M1000/480-KIT |
| 87213 | GEM1000ML5AA5-5 | 71A6552-001 | M1000ML5AC5M500K | |
| 86655 | GEM1000MLTAA5-5 | 71A6572-001 | M1000MLTAC5M500K | M1000/MULTI-KIT |
| 86693 | GEM150048TAC5-5 | 71A6742-001 | M150048TAC5M500K | M1500/480-KIT |
| 86698 | GEM1500MLTAC5-5 | 71A6772-001 | M1500MLTAC5M500K | M1500/MULTI-KIT |
| Pulse Start | | | | |
| 67335 | GEP175MLTAA3-5 | 71A5593-001D | P175MLTAC3M500K | |
| 78525 | GEP175TRIAC3-5 | 71A55A3 | P175TRIAC3M502K | |
| 86876 | GEP17548TAC3-5 | 71A5543-500DT | P17548TAC3M500K | |
| 78526 | GEP200TRIAC3-5 | 71A56A2 | P200TRIAC3M502K | |
| 67344 | GEP250MLTAA4-5 | 71A5792-001D | P250MLTAC4M500K | M250/MULTI-PS-KIT |
| 78527 | GEP250TRIAC4-5 | 71A57A2 | P250TRIAC4M502K | |
| 86926 | GEP25048TAC4-5 | 71A5742-500DT | P25048TAC4M500K | M250/480-PS |
| 86959 | GEP320MLTAC4-5 | 71A5892-001D | P320MLTAC4M500K | M320/MULTI-PS-KIT |
| 78528 | GEP320TRIAC4-5 | 71A59A2 | P320TRIAC4M502K | |
| 67342 | GEP32048TAA4-5 | 71A5842-500DT | P32048TAC4M500K | M320/480-PS-KIT |
| 78529 | GEP350TRIAC4-5 | 71A59A3 | P350MLTAC4M500K | |
| 67346 | GEP350MLTAA4-5 | 71A5993-001D | P350MLTAC4M500K | |
| 78530 | GEP400TRIAC4-5 | 71A60A2 | P400TRIAC4M502K | |
| 67341 | GEP40048TAA4-5 | 71A6042-500DT | P40048TAC4M500K | M400/480-PS-KIT |
| 67347 | GEP400MLTAA4-5 | 71A6092-001D | P400MLTAC4M500K | M400/MULTI-PS-KIT |
| 78531 | GEP750TRIAC5-5 | 71A64F0-T | P750TRIAC5M502K | M750/120/277/347/480-PS-KIT |
| 67343 | GEP75048TAA5-5 | 71A64F2-500DT | P75048TAC5M500K | |
| 67350 | GEP750MLTAA5-5 | 71A64E2-500D | P750MLTAC5M500K | |
| 78532 | GEP1000TRIAC5-5 | 71A65F1-T | | M1000/120/277/347/480-PS-KIT |
| 67348 | GEP1000MLTAA5-5 | 71A6593-500 | P1000MLTAC5M500K | |
| 67349 | GEP1000ML5AA5-5 | 71A6553-500 | P1000ML5AC5M500K | |

| Prod Code | Description | Advance P/N | Universal (Vossloh Schwabe) | OSI P/N |
|---|------------------|------------------|-----------------------------|------------------|
| HID Electromagnetic Ballasts - Continued | | | | |
| High Pressure Sodium | | | | |
| 87152 | GES50MLTLC3D-5 | 71A7801-001D | S50MLTLC3M500K | LU50/DUAL-KIT |
| 78533 | GES50TRILC3-5 | | | |
| 86587 | GES70MLTLC3D-5 | 71A7971-001D | S70MLTLC3M500K | LU70/MULTI-KIT |
| 78534 | GES70TRILC3-5 | 71A79A1-001D | S70TRILC3M502K | |
| 86456 | GES7048TLC3D-5 | 71A7941-001D | S7048TLC3M500K | |
| 87074 | GES100MLTLC3D-5 | 71A8001-001D | S100MLTLC3M500K | LU100/MULTI-KIT |
| 78535 | GES100TRILC3-5 | 71A80A1-001D | S100TRILC3M502K | |
| 87068 | GES10048TLC3D-5 | | S10048TLC3M500K | LU100/480-KIT |
| 87094 | GES150MLTLC3D-5 | 71A8172-001D | S150MLTLC3M500K | LU150/MULTI-KIT |
| 78536 | GES150TRILC3-5 | 71A81A2-001D | S150TRILC3M502K | |
| 67339 | GES15048TLC3D-5 | 71A8142-001D | S15048TLC3M500K | LU150/480-KIT |
| 87214 | GES250ML5AA4-5 | 71A8251-001D | S250ML5AC4M500K | |
| 78537 | GES250TRIAC4-5 | 71A82A1-001D | S250TRIAC4M502K | |
| 87121 | GES250MLTAA4-5 | 71A8271-001D | S250MLTAC4M500K | LU250/MULTI-KIT |
| 63066 | GES400ML5AC4-5 | 71A8453-001DF | S400ML5AC4M500K | |
| 87164 | GES400MLTAA4-5 | 71A8473-001D | S400MLTAC4M500K | LU400/MULTI-KIT |
| 78539 | GES400TRIAC4-5 | 71A84A3-001D | S400TRIAC4M502K | |
| 87198 | GES40048TAA4-5 | 71A8443-001D | S40048TAC4M500K | LU400/480-KIT |
| 78540 | GES1000TRIAC5-5 | 71A87A3-001 | S1000TRIAC5M502K | |
| 67351 | GES100048TAA5-5 | 71A8743-001 | S100048TAC5M500K | LU1000/480-KIT |
| 87218 | GES1000ML5AA5-5 | 71A8753-001 | S1000ML5AC5M500K | |
| 67352 | GES1000MLTAA5-5 | 71A8773-001 | S1000MLTAC5M500K | LU1000/MULTI-KIT |
| HID Lamp - Ballast Kits | | | | |
| 71701 | GEM175ML5AC3-55 | 77L5570-001D | | |
| 71702 | GEM250ML5AC3-55 | 77L5770-001D | | |
| 71703 | GEM400ML5AC4-55 | 77L6051-001D | | |
| 71704 | GEM1000ML5AC4-55 | 77L6552-001 | | |
| 71705 | GES100MLTLC3D-55 | 77L8071-001D-MED | | |
| 71706 | GES250ML5AC4-55 | 77L8251-001D | | |
| 71707 | GES400ML5AC4-55 | 77L8453-001D | | |
| F-Can & Post Mount Metal Halide | | | | |
| 63046 | GEMH50MVR-F | 72C5181-NP | 1120236CTC | |
| 86576 | 11210277CTC000C | 72C5280-NP | 11210277CTC | |
| 63047 | GEMH70MVR-F | 72C5282-NP | 11210277CTC | |
| 86578 | 11210506CTC000C | 72C5282-NP | 11210506CTC | |
| 63048 | GEMH100MVR-F | 72C5381-NP | 11210239CTC | |
| 63049 | GEMH150MVR-F | 72C5482-NP | 11210539CTC | |
| 63050 | GEMH175MVA-F | 72C5581-NP | 1110245SCTC | |
| 63051 | GEMH250MVA-F | 72C5782-NP | 1110246CTC | |
| 63052 | GEMH400MVA-F | 72C6082-NP | 1111-247SCTC | |
| 80728 | 1111-247SCTC000I | 72C6082-NP | 1111-247SCTC | |
| F-Can & Post Mount HPS | | | | |
| 86605 | 1233142U000I | 71A7907-001DB | 1233142U000I | |
| 86596 | 12210237CTC000I | 72C7984-NP | 12210237CTC000I | |
| 86606 | 1233154U000I | 71A8107-001DB | 1233154U000I | |
| HID Ignitors | | | | |
| 75440 | MH350-1A | LI553-H4-IC | | |
| 75441 | MH750-1B | LI573-H5-1B | | |
| 86606 | HPS150-3A | LI551-J4-IC | | |
| 86607 | HPS400-3A | LI501-H4-IC | | |
| HID CAPACITORS | | | | |
| 75434 | GECAP-15/440V-O | 7C150P40-R | | |
| 75435 | GECAP-24/400V-O | 7C240P40-R | | |
| 75668 | GECAP-24/480V-O | MD2409-00 | | |
| 75669 | GECAP-12/280V-O | | | |
| 75422 | GECAP-35/240V-O | 7C350P24RA | | |
| 75423 | GECAP-5/240V-O | 7C550P24RA | | |
| 75437 | GECAP-12/280V-O | | | |

Discontinued Catalog Products

| Prod Code | Description | Suggested Replacement | Prod Code |
|-----------|------------------|-----------------------|-----------|
| 23671 | GE-232-120-N | GE232MAX-G-N | 72275 |
| 23672 | GE-232-277-N | GE-232-MV-N | 72275 |
| 23674 | GE-332-277-N | GE-332-MV-N | 74456 |
| 23675 | GE-432-120-N | GE432MAX-G-N | 74463 |
| 23676 | GE-432-277-N | GE-432-MV-N | 74463 |
| 23678 | GE-259-277-N | GE259MV-N | 74469 |
| 23680 | GE-132-120-N | GE132MAX-G-N | 72269 |
| 23681 | GE-132-277-N | GE-132-MV-N | 72269 |
| 23939 | GE132MAX-N-DIY | NA | |
| 23940 | GE232MAX-N-DIY | NA | |
| 23942 | GE432MAX-N-DIY | NA | |
| 24162 | GE-132-277-N-84T | GE-132-MV-N-42T | 72240 |
| 24164 | GE-232-277-N-84T | GE-232-MV-N-42T | 72276 |
| 24166 | GE-332-277-N-84T | GE-332-MV-N-42T | 74457 |
| 24168 | GE-432-277-N-84T | GE-432-MV-N-42T | 74464 |
| 24170 | GE-259-277-N-84T | GE-259MV-N-42T | 74470 |
| 24774 | GE340RS-MV-N-DIY | NA | |
| 29621 | GE-232-120-PS-N | GE-232-MVPS-N | 96714 |
| 29622 | GE-232-277-PS-N | GE-232-MVPS-N | 96714 |
| 29623 | GE-332-120-PS-N | GE-232-MVPS-N | 96714 |
| 29624 | GE-332-277-PS-N | GE-332-MVPS-N | 96715 |
| 29625 | GE-432-120-PS-N | GE-432-MVPS-N | 96716 |
| 29627 | GE-432-277-PS-N | GE-432-MVPS-N | 96716 |
| 29630 | GE-232-120PS-N-T | GE-232-MVPS-N | 96714 |
| 29632 | GE-232-277PS-N-T | GE-232-MVPS-N | 96714 |
| 29633 | GE-332-120PS-N-T | GE-332-MVPS-N | 96715 |
| 29634 | GE-332-277PS-N-T | GE-332-MVPS-N | 96715 |
| 29635 | GE-432-120PS-N-T | GE-432-MVPS-N | 96716 |
| 29650 | GE-432-277PS-N-T | GE-432-MVPS-N | 96716 |
| 29656 | GE-332-MV-PS-H-T | GE332-MVPS-H-84TS | 72753 |
| 29665 | GE-232-MVPS-XL-T | GE-232-MVPS-XL | 29671 |
| 29666 | GE-332-MVPS-XL-T | GE-332-MVPS-XL | 29672 |
| 73192 | GE454MVPS90-G | GE454MVPS90-E-S | 94131 |
| 29717 | GE454MVPSN1-B | GE454MVPS90-G | 73192 |
| 30187 | GE-286-HO-MV-N-P | GE-286-HO-MV-N-P | 30176 |
| 30189 | GE-132-MV-N | GE-132-MV-N | 72269 |
| 30191 | GE-232-MV-N | GE-232-MV-N | 72275 |
| 30219 | GE432MV-H | GE432MV-H | 78629 |
| 30247 | GE-232-MV-L | GE-232-MV-L | 72272 |
| 30268 | GE-132-MV-N-42T | GE-132-MV-N-42T | 72240 |
| 30269 | GE-232-MV-N-42T | GE-232-MV-N-42T | 72276 |
| 30303 | GE-432-MV-H-42T | GE-432-MV-N-42T | 74464 |
| 30308 | GE-232-MV-L-42T | GE-232-MV-L-42T | 72274 |
| 31052 | GE232MAX-N-42T | GE232MAX-N-42T | 72267 |
| 31053 | GE332MAX-N-42T | GE332MAX-N-42T | 71721 |
| 31054 | GE432MAX-N-42T | GE432MAX-N-42T | 71729 |
| 31055 | GE332MAX-L-42T | GE332MAX-L-42T | 71718 |
| 42670 | 1110-247SC-TC | NA | |
| 42692 | P350277RCM500K | GEP350MLTAC4-5 | 86984 |
| 47532 | B132PUNVHP-A | GE-132-MV-N | 72269 |
| 99655 | GE228MVPS-A | GE228MVPS-MC | 68993 |
| 47536 | B228PUNV-COG1C | GE228MVPS-A | 99655 |
| 47546 | GE232MAX-L-42T | GE232MAX-L-42T | 72274 |
| 47547 | GE432MAX-L-42T | GE432MAX-L-42T | 71726 |
| 47549 | GE332MAX-H-42T | GE332MAX-H-42T | 71715 |
| 47550 | GE432MAX-H-42T | GE432MAX-H-42T | 71724 |
| 49706 | GE132MAX-L/ULTRA | GE132MAX-L/ULTRA | 72258 |
| 49707 | GE232MAX-L/ULTRA | GE232MAX-L/ULTRA | 72262 |
| 49708 | GE332MAX-L/ULTRA | GE332MAX-L/ULTRA | 71717 |
| 49709 | GE432MAX-L/ULTRA | GE432MAX-L/ULTRA | 71725 |
| 49771 | GE132MAX-N/ULTRA | GE132MAX-N/ULTRA | 72259 |
| 49772 | GE232MAX-N/ULTRA | GE232MAX-N/ULTRA | 72262 |
| 49773 | GE332MAX-N/ULTRA | GE332MAX-N/ULTRA | 71719 |

| Prod Code | Description | Suggested Replacement | Prod Code |
|-----------|-------------------|-----------------------|-----------|
| 49774 | GE432MAX-N/ULTRA | GE432MAX-N/ULTRA | 71727 |
| 49775 | GE232MAX-H/ULTRA | GE232MAX-H/ULTRA | 73190 |
| 49776 | GE332MAX-H/ULTRA | GE332MAX-H/ULTRA | 71714 |
| 49777 | GE432MAX-H/ULTRA | GE432MAX-H/ULTRA | 71723 |
| 71281 | GE232MAX-N/AMP | GE232MAX-N/AMP | 72264 |
| 71424 | GE332-MVPS-HSL84 | GE332-MVPS-H-84TS | 72753 |
| 71425 | GE432-MVPS-HSL42 | GE432MVPS-H-42T | 74477 |
| 71426 | GE432MAX-HSL84T | GE432MAX-H-42T | 71724 |
| 71502 | GE632MAXH90-S60T | GE632MAX90-S60 | 71497 |
| 71714 | GE332MAX-H/ULTRA | GE332MAX-H/ULTRA | 78619 |
| 71715 | GE332MAX-H-48T | GE332MAX-H-48T | 78620 |
| 71717 | GE332MAX-L/ULTRA | GE332MAX-L/ULTRA | 78621 |
| 71718 | GE332MAX-L-48T | GE332MAX-L-48T | 78622 |
| 71719 | GE332MAX-N/ULTRA | GE332MAX-N/ULTRA | 78623 |
| 71721 | GE332MAX-N-48T | GE332MAX-N-48T | 78624 |
| 71725 | GE432MAX-L/ULTRA | GE432MAX-L/ULTRA | 78625 |
| 71726 | GE432MAX-L-48T | GE432MAX-L-48T | 78626 |
| 71727 | GE432MAX-N/ULTRA | GE432MAX-N/ULTRA | 78627 |
| 71729 | GE432MAX-N-42T | GE432MAX-N | 78628 |
| 71732 | GE632MAXH90-V60T | GE632MAX90-V60 | 71731 |
| 72260 | GE132MAX-N-DIY | NA | |
| 80136 | B332I347HP | GE332-N-347 | 74105 |
| 80148 | B259I120RHH | NA | |
| 80149 | B259I277RHH | NA | |
| 80162 | B295SR120HP | GE296HO-MV-N | 75671 |
| 80163 | B295SR277HP | GE296HO-MV-N | 75671 |
| 80277 | B332I347HPL 347 | NA | |
| 80353 | B132R120V5 | GE132MVPS-N-V03 | 75379 |
| 80355 | B232SR120V5 | GE232MVPS-N-V03 | 75380 |
| 80356 | B232SR277V5 | GE232MVPS-N-V03 | 75380 |
| 80357 | B332SR120V5 | GE332MVPS-N-V03 | 75381 |
| 80358 | B332SR277V5 | GE332MVPS-N-V03 | 75381 |
| 80362 | B232SR277S50 | GE232MAX90-S60 | 73233 |
| 80630 | 480XLHTCP-CON 120 | GE296HO-MV-N | 75671 |
| 80631 | 487XLHTCP-CON | GE296HO-MV-N | 75671 |
| 80633 | 487SLHTCP-CON | GE296HO-MV-N | 75671 |
| 80635 | 822BRTCP-CON | GE-260-IS-MV-N | 74474 |
| 80637 | 420LTCP-CON | GE-240RS-MV-N | 74472 |
| 80640 | 447LRVLHTCP-CON | GE-240RS-MV-N | 74472 |
| 80644 | GEM230RS120DIY | GE-240RS-MV-N DIY | 74473 |
| 80664 | 493B2 | NA | |
| 80669 | C213UNVBE-IP | GEC213-MVPS-SE | 71429 |
| 80671 | C213UNVBES-IP | GEC213-MVPS-BES | 71428 |
| 80672 | C213UNVSE-IP | GEC213-MVPS-SE | 71429 |
| 80673 | C218UNVBEIP | GEC218-MVPS-SE | 71433 |
| 80677 | C218UNVBES-IP | GEC218-MVPS-BES | 71432 |
| 80679 | C218UNVSE-IP | GEC218-MVPS-SE | 71433 |
| 80680 | C240SI120RH-IP | GEC240MAX-A | 71435 |
| 80681 | C240SI277RH-IP | GEC240MAX-A | 71435 |
| 80683 | C240PUNVHP-B-IP | GEC240MVPS-A | 75950 |
| 80685 | C2642UNVBE-IP | GEC226-MVPS-SE | 71444 |
| 80687 | C2642UNVBES-IP | GEC226-MVPS-BES | 71443 |
| 80689 | C2642UNVSE-IP | GEC226-MVPS-SE | 71444 |
| 80690 | C340SI120RH-IP | GEC340MAX-A | 71436 |
| 80691 | C340SI277RH-IP | GEC340MAX-A | 71436 |
| 80824 | 480XLHTCP-DIY | GE296HO-MV-N | 75671 |
| 86071 | 200CSP-IP | GE-240RS-MV-N | 74472 |
| 86073 | 200H2-IP | GE-240RS-MV-N | 74472 |
| 86078 | 202BTCP-IP | GE-240RS-MV-N | 74472 |
| 86080 | 202SBTCP-IP | GE-240RS-MV-N | 74472 |
| 86085 | 213TCP-IP | GE-260-IS-MV-N | 74474 |
| 86101 | 412LSLHTCP-IP | GE-240RS-MV-N | 74472 |
| 86105 | 413CTCP-IP | GE-240RS-MV-N | 74472 |

| Prod Code | Description | Suggested Replacement | Prod Code | Prod Code | Description | Suggested Replacement | Prod Code |
|-----------|------------------|-----------------------|-----------|-----------|------------------|-----------------------|-----------|
| 86110 | 420LTCP-IP | GE-240RS-MV-N | 74472 | 89723 | 213TCP-DIY | GE-260-IS-MV-N-DIY | 74475 |
| 86123 | 443LSLHTCP | GE-240RS-MV-N | 74472 | 89724 | 458LSLHTCP-DIY | GE240RS-MV-N-DIY | 74473 |
| 86124 | GEM240RS277IP | GE-240RS-MV-N | 74472 | 89725 | 532BRTCP-DIY | GE-260-IS-MV-N-DIY | 74475 |
| 86132 | 445RSWSTCP-IP | GE240RS120 | 97498 | 89726 | 487SLHTCP-DIY | GE296HO-MV-N-DIY | 72109 |
| 86137 | 446LSLHTCP | GE-240RS-MV-N | 74472 | 90019 | GE259MAX-N/CTR | NA | |
| 86139 | GEM240RS120IP | GE-240RS-MV-N | 74472 | 96717 | GE232-MVPS-N-42T | GE-232-MVPS-N | 96714 |
| 86144 | 447LRTCP-IP | GE-240RS-MV-N | 74472 | 96718 | GE332-MVPS-N-42T | GE-332-MVPS-N | 96715 |
| 86158 | 458LSLHTCP-IP | GE-240RS-MV-N | 74472 | 96719 | GE432-MVPS-N-42T | GE-432-MVPS-N | 96716 |
| 86164 | GEM296HORS120IP | GE296HO-MV-N | 75671 | 97656 | GE232MAX-N/CTR | GE232MAX-N/CTR | 72265 |
| 86167 | 480XLHTCP-IP | GE296HO-MV-N | 75671 | 97657 | GE332MAX-N/CTR | GE332MAX-N/CTR | 71720 |
| 86171 | GEM296HORS277IP | GE296HO-MV-N | 75671 | 97658 | GE432MAX-N/CTR | GE432MAX-N/CTR | 71728 |
| 86173 | 487XLHTCP-IP | GE296HO-MV-N | 75671 | 97709 | GE-232MV-N-DIY | GE-232MV-N-DIY | 72277 |
| 86176 | 490XLHTCP-IP | GE296HO-MV-N | 75671 | 97713 | GE332MAX-HSL84T | GE332MAX-HSL84T | 72752 |
| 86185 | 502ATCP-IP | GE232MVPS-N-VO3 | 75380 | | | | |
| 86206 | 532BRTCP-IP | GE-260-IS-MV-N | 74474 | | | | |
| 86208 | 537LTCP-IP | GE-240RS-MV-N | 74472 | | | | |
| 86222 | 546BTCP-IP | GE140RS120 | 75672 | | | | |
| 86231 | 548H2-IP | NA | | | | | |
| 86240 | 554LTCP-IP | NA | | | | | |
| 86243 | 562LTCP-IP | NA | | | | | |
| 86245 | 564LTCP-IP | GE-240RS-MV-N | 74472 | | | | |
| 86251 | 573LTCP-IP | GE-240RS-MV-N | 74472 | | | | |
| 86253 | 588LTCP-IP | GE-240RS-MV-N | 74472 | | | | |
| 86264 | 627LHTCP-IP | GE296HO-MV-N | 75671 | | | | |
| 86287 | 697LTCP-IP | GE-240RS-MV-N | 74472 | | | | |
| 86341 | GEM240RS220IP | NA | | | | | |
| 86351 | 798XLHTCP-IP | GE296HO-MV-N | 75671 | | | | |
| 86359 | 806SLHTCP | GE-260-IS-MV-N | 74474 | | | | |
| 86360 | GEM296IS120IP | GE-260-IS-MV-N | 74474 | | | | |
| 86372 | GEM196IS120IP | GE-260-IS-MV-N | 74474 | | | | |
| 86378 | 827SLHTCP | GE-260-IS-MV-N | 74474 | | | | |
| 86379 | GEM296IS277IP | GE-260-IS-MV-N | 74474 | | | | |
| 86381 | GEM196IS277IP | GE-260-IS-MV-N | 74474 | | | | |
| 86396 | 881BRTCP-IP | GE-260-IS-MV-N | 74474 | | | | |
| 86402 | 930KTCP-IP | NA | | | | | |
| 86411 | 937KTCP-IP | NA | | | | | |
| 86430 | 957STCP-IP | NA | | | | | |
| 86432 | 960VLHTCP-IP | NA | | | | | |
| 86519 | H100MLTAC3M500K | GEM100MLTLC3D-5 | 86675 | | | | |
| 86527 | H175MLTAC3M500K | GEM175MLTAC3-5 | 86741 | | | | |
| 86542 | H400MLTAC4M500K | GEM400MLTAA4-5 | 72149 | | | | |
| 86624 | 2BMB1000C | NA | | | | | |
| 86808 | M400ML5AC4M500K | GEM400ML5AA4-5 | 72300 | | | | |
| 86814 | M400MLTAC4M500K | GEM400MLTAA4-5 | 72149 | | | | |
| 86968 | P320TRIAC4M502K | GEP320MLTAC4-5 | 86959 | | | | |
| 87175 | S400MLTAC5M500K | GES400ML5AC4-5 | 87215 | | | | |
| 87206 | S40048TAC5M500K | GES40048TAC4-5 | 87198 | | | | |
| 87217 | S400ML5AC5M500K | GES400ML5AC4-5 | 87215 | | | | |
| 87621 | GE-454-MV-PS-NL | GE454MVPS90-G | 73192 | | | | |
| 87634 | GEM1CF579PH277 | NA | | | | | |
| 72279 | GE254MVPS-D | GE254MVPS-D-1 | 33957 | | | | |
| 87666 | GE-254-MV-PS-NLB | GE254MVPS-D | 72279 | | | | |
| 87700 | GEM2CF24PH277 | NA | | | | | |
| 88918 | USB-0218-16-IP | NA | | | | | |
| 88931 | USB-0816-14-IP | GESB-620-24-IP | 72104 | | | | |
| 88934 | USB-1632-24-IP | GESB-2040-46-IP | 72107 | | | | |
| 88936 | USB-1024-14-IP | GESB-1224-24-IP | 72105 | | | | |
| 89707 | GEM240RS120DIY72 | GE240RS120-DIY | 97499 | | | | |
| 89708 | GEM296IS120DIY48 | GE-260-IS-MV-N-DIY | 74475 | | | | |
| 89709 | GEM140RS120DIY | GE140RS120-DIY | 72110 | | | | |
| 89710 | GEM240HRS120DIY | GE240RS120-DIY | 97499 | | | | |
| 89714 | GEM140HRS120DIY | GE140RS120-DIY | 72110 | | | | |
| 89716 | 445RSWSTCP-DIY | GE240RS120-DIY | 72110 | | | | |

Product Warranty

GE Lighting

Light your world with a brand you can trust—GE.

GE has been a leader in innovative lighting technologies for over 100 years. Our name on the label is virtually synonymous with dependable, efficient, high-quality products—and that is why we are totally confident in the system performance and reliability of our lamps and ballasts. Also it is why we are willing to back them with a limited warranty that provides excellent coverage against defects in materials and workmanship.

If your GE lamp or ballast, when installed and used properly, fails during its warranty period because of defects in materials or workmanship, our warranties provide for purchase price credits or replacement. Of course, every lamp, ballast and system is different and warranty details vary, so check the individual warranty for your product at www.gelighting.com/warranty.

System Limited Warranty

(See the GE Lighting System and Ballast Limited Warranty at www.gelighting.com/warranty for full details and specific lamp cycle requirements.)

GE Lamps Operating on GE Ballasts

| | Lamp Warranty ² | | Electronic Ballast Warranty ^{3,5} | Electromagnetic Ballast Warranty ⁵ |
|---|---|--|--|---|
| Compact Fluorescent Lamp ¹ | When Operated on GE Programmed Rapid-Start Ballasts | When Operated on GE Instant-Start Ballasts | | |
| Double Biac [®] : 13-, 18-, 26-watt: "DBX" (4-pin base types only) | 2 years | - | 5 years | - |
| Triple Biac [®] : 13-, 18-, 26-, 32-, 42-watt "TBX" | 2 years | - | 5 years | - |
| High-Output Biac [®] : 57-watt and 70-watt "QBX" | 2 years | - | 5 years | - |
| High Lumen Biac [®] 27 W and 39 W | 1 year | - | 5 years | - |
| High Lumen Biac [®] 55 W ⁶ | 2 years | - | 5 years | - |
| High Lumen Biac [®] Watt-Miser [®] 25 W (F40/25BX) | 3 years | 2.5 years | 5 years | - |
| High Lumen Biac [®] 40 W (F40/30BX) | 2 years | 1 year | 5 years | - |
| Linear Fluorescent Lamp ^{1,4} | When Operated on GE Programmed Rapid-Start Ballasts | When Operated on GE Instant-Start Ballasts | Electronic Ballast Warranty ^{3,5} | Electromagnetic Ballast Warranty ⁵ |
| F17T8/XL, F25T8/XL, F32T8 (SP, SPP & SPX) | 3 years | 2.5 years | 5 years | 2 years |
| F17T8/XL/WM, F25T8/XL/WM | 3 years | 3 years | 5 years | 2 years |
| F28T8/XL/SPP, F32T8/25W/SPP, F32T8/XL (SP & SPX) | 4 years | 3 years | 5 years | 2 years |
| F32T8/XL/HL | 4 years | 4 years | 5 years | 2 years |
| F28T8/XL/SPX, F32T8/SXL, F32T8/25W/SPX | 5 years | 4 years | 5 years | 2 years |
| F28T8/SXL, F32T8/25W/SXL | 7 years | 5 years | 5 years | 2 years |
| F96T8, F96T8/HO | - | 2 years | 5 years | - |
| F96T8/XL (SP, SPP & SPX); F96T8/XL/WM; F96T8/XL/WMP; F96T8/54W/SPP; F96T8/49W (SPP & SPX) | - | 3 years | 5 years | - |
| F28W/TS/HL | 3 years | - | 5 years | - |
| F14T5/WM, F21T5/WM, F28T5/WM, F35T5/WM | 3.5 years | - | 5 years | - |
| F14T5HE, F21T5HE, F28T5HE, F35T5HE, F54T5/47W, F24T5HO, F39T5HO, F54T5HO, F80T5HO, F54T5/WM | 4 years | - | 5 years | - |
| F54T5/XL | 5 years | - | 5 years | - |
| HID High Watt Lamps ⁴ | When Operated on GE Ballasts | | Electronic Ballast Warranty ^{3,5} | Electromagnetic Ballast Warranty ⁵ |
| CMH [®] ConstantColor [®] SPXX: 250-, 320-, 350-, 400-watt | 1 year | - | 5 years | 2 years |
| PulseArc [®] : 250-, 320-, 350-, 400-watt | 1 year | - | 5 years | 2 years |
| HID Low Watt Lamps ⁴ | Wattage/Type | When Operated on GE Ballasts | Electronic Ballast Warranty ^{3,5} | Electromagnetic Ballast Warranty |
| CMH [®] PAR | PAR20, PAR30L, PAR38, PAR64 | 6 months | - | - |
| CMH [®] MR16 | All | 6 months | - | - |
| CMH [®] GU6.5 | All | 6 months | - | - |
| CMH [®] G8.5 | 20 W | 6 months | - | - |
| | 39 W, 70 W | 1 year | - | - |
| CMH [®] G12 | 20 W, 150 W | 6 months | - | - |
| | 39 W, 70 W | 1 year | - | - |
| CMH [®] Double-ended | All | 1 year | - | - |
| CMH [®] Elliptical | 70 W | 1 year | - | - |
| | 150 W | 9 months | - | - |
| | 100 W | 6 months | - | - |

Visit www.gelighting.com/warranty for all warranty provisions and details

¹ Includes GE covrGuard[®] lamps

² After date of purchase

³ Contingent upon maximum rated case temperature; 36 or 60 months as specified on www.gelighting.com

⁴ Linear fluorescent and compact fluorescent operating at 4,000 hours per year, high intensity discharge at 5,000 hours per year.

⁵ From date of manufacture

⁶ Applies to F55BX lamps rated at 20,000 hours life

Ballast Remedy: GE will, at its option, either (1) provide a credit to Purchaser equal to the current price GE charges Purchaser for the ballast, or (2) provide a free replacement ballast to Purchaser. GE reserves and has the right to examine failed lamps and/or ballasts to determine the cause of failure and patterns of usage.

Index

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| 000-8724 | 47621 | 18-59 |
| 005-1184-MF | 75433 | 18-59 |
| 005-2779-MF | 75668 | 18-59 |
| 100/300 6PK | 41459 | 1-13 |
| 1000 | 22260 | 1-15 |
| 1003 | 12367 | 8-25 |
| 1003 | 26709 | 8-25 |
| 1003 LL | 47800 | 8-25 |
| 1003 NH | 71899 | 8-25 |
| 1003/BP2 | 12367 | 8-16 |
| 1004 | 12373 | 8-25 |
| 1004 | 26726 | 8-25 |
| 100A 48PK | 41034 | 1-16 |
| 100A 60PK | 17522 | 1-12 |
| 100A-2/24PK | 97780 | 1-16 |
| 100A/CL-2PK | 97489 | 1-16 |
| 100A/RS 12PK-5 | 18275 | 1-12 |
| 100A/RS 60PK | 17527 | 1-12 |
| 100A/RS/STG-TP6 | 72546 | 1-12 |
| 100A/RS/STGPQ1/6 | 47261 | 1-12 |
| 100A/RS130-PK12 | 72527 | 1-12 |
| 100A/RVL 48PK | 48690 | 1-16 |
| 100A/SPK-2PK | 97484 | 1-12 |
| 100A/W 48PK | 41036 | 1-16 |
| 100A/W/LL-2PK | 97761 | 1-16 |
| 100F20/TF PQ1/6 | 44540 | 1-19 |
| 100G40/W 6PK | 49781 | 1-19 |
| 100G40/W CPK | 16742 | 1-19 |
| 100PAR/B/85WM6PK | 13465 | 1-12 |
| 100PAR/FL85WM/EX | 14509 | 1-16 |
| 100PAR/G/85WM6PK | 13474 | 1-12 |
| 100PAR/R/85WM6PK | 13472 | 1-12 |
| 100PAR/Y/85WM6PK | 13473 | 1-12 |
| 1034 | 26775 | 8-25 |
| 105 | 36147 | 8-22 |
| 1073 | 26838 | 8-16 |
| 1073 | 26838 | 8-25 |
| 1073 | 40134 | 8-25 |
| 1073NH | 71905 | 8-25 |
| 1076 | 00765 | 8-25 |
| 1076 | 26854 | 8-25 |
| 10S11/79 | 12249 | 1-7 |
| 10S11N/F | 12188 | 1-7 |
| 10S6/10 | 12041 | 1-7 |
| 10S6/10 24PK | 12050 | 1-7 |
| 10S6/10DC 24PK | 12060 | 1-7 |
| 110R30/FL/RS/1 | 46859 | 1-13 |
| 1110-247SC-TC | 42670 | 18-61 |
| 1110245SCTC000I | 86563 | 18-60 |
| 1110246CTC000C | 86564 | 18-60 |
| 1111-247SCTC000I | 80728 | 18-57 |
| 11210239CTC000I | 86574 | 18-60 |
| 11210277CTC000C | 86576 | 18-53 |
| 11210506CTC000C | 86578 | 18-60 |
| 1133 | 26885 | 8-25 |
| 1141 | 12346 | 8-25 |
| 1141 | 26903 | 8-25 |
| 1141 | 26905 | 8-25 |
| 1141 LL | 47802 | 8-25 |
| 1141 NH | 71897 | 8-25 |
| 1141/BP2 | 12346 | 8-16 |
| 1142 | 00759 | 8-25 |
| 1142 | 26917 | 8-25 |
| 1142 | 26919 | 8-25 |
| 1154 | 12297 | 8-25 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| 1154 NH | 71889 | 8-25 |
| 1154/BP2 | 12297 | 8-16 |
| 1155 | 26955 | 8-25 |
| 1156 | 12344 | 8-25 |
| 1156 | 26960 | 8-25 |
| 1156 | 26962 | 8-25 |
| 1156 LL | 11666 | 8-25 |
| 1156 LL | 23334 | 8-25 |
| 1156 NH | 89241 | 8-25 |
| 1156/BP2 | 12344 | 8-16 |
| 1156NA | 20248 | 8-25 |
| 1156NA | 21028 | 8-25 |
| 1157 | 12294 | 8-25 |
| 1157 | 26969 | 8-25 |
| 1157 | 26971 | 8-25 |
| 1157 LL | 23337 | 8-25 |
| 1157 NH | 89236 | 8-25 |
| 1157/BP2 | 12294 | 8-16 |
| 1157NA | 12310 | 8-25 |
| 1157NA | 26975 | 8-25 |
| 1157NA | 26976 | 8-25 |
| 1157NA LL | 47798 | 8-25 |
| 1157NA NH | 71891 | 8-25 |
| 1157NA/BP2 | 12310 | 8-16 |
| 1176 | 27004 | 8-25 |
| 1195 | 27021 | 8-25 |
| 1195 | 27023 | 8-25 |
| 1196 | 27026 | 8-25 |
| 120R40/PL-1 6PK | 21000 | 1-13 |
| 120R40FL/STG PQ6 | 47725 | 1-13 |
| 12210237CTC000I | 86596 | 18-57 |
| 1229 | 39904 | 8-25 |
| 1233142U000I | 86605 | 18-58 |
| 1233154U000I | 86606 | 18-58 |
| 1233154U000I | 86606 | 18-64 |
| 1251 | 81679 | 8-25 |
| 125R40/1 6PK | 48069 | 1-13 |
| 1295NA | 22523 | 8-25 |
| 1308 | 12824 | 8-25 |
| 1309 | 81656 | 8-25 |
| 1315 | 81667 | 8-25 |
| 1317 | 34265 | 8-25 |
| 1383 | 27150 | 8-25 |
| 1385 | 27154 | 8-25 |
| 1408 | 27179 | 8-25 |
| 1445 | 12329 | 8-25 |
| 1445 | 27207 | 8-25 |
| 1450 | 27263 | 8-25 |
| 1460X | 81669 | 8-25 |
| 1495 | 81657 | 8-25 |
| 1495X | 81678 | 8-25 |
| 15/150-SECURITY | 23068 | 1-8 |
| 150A/CL 12PK | 16068 | 1-13 |
| 150A/RVL | 16703 | 1-13 |
| 150A/W 12PK | 10429 | 1-13 |
| 150A/W/RL/HAL-TP6 | 71364 | 2-7 |
| 150A21/RS-PK6 | 72532 | 1-13 |
| 150G40/W | 16585 | 1-19 |
| 150PAR/3FL/120WM | 80313 | 1-13 |
| 150PAR/3FL/MINE | 80315 | 1-13 |
| 150PAR/3FL/MINE | 80317 | 1-13 |
| 150PAR/3SP/120WM | 80322 | 1-13 |
| 150PAR/3SP/MINE | 80321 | 1-13 |
| 150PAR/FL/120WM/ | 14501 | 1-16 |
| 150PAR/FL/B | 19465 | 1-13 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| 150PAR/FL/CSVG | 26370 | 1-13 |
| 150PAR/FL/EX-120 | 14531 | 1-16 |
| 150PAR/FL/G | 19467 | 1-13 |
| 150PAR/FL/R | 19468 | 1-13 |
| 150PAR/FL/STGPQ6 | 48037 | 1-13 |
| 150PAR/SP/120WM/ | 14502 | 1-16 |
| 150PAR/SP/CSVG | 26371 | 1-13 |
| 150PAR/SP/EX-120 | 14535 | 1-16 |
| 150PAR46 | 19517 | 1-13 |
| 150PAR46/1 | 19512 | 1-13 |
| 150PAR46/3MFL | 41968 | 1-13 |
| 150PAR46/TS | 35327 | 1-13 |
| 150PS25/RS/STG | 72547 | 1-13 |
| 158 | 25931 | 8-22 |
| 1591 | 81672 | 8-25 |
| 15A/W-2PK | 97491 | 1-8 |
| 15A15 | 12658 | 1-8 |
| 15A15/CL-2PK | 97488 | 1-8 |
| 15BC/8/CF2/PKS-MP | 75257 | 1-17 |
| 15BC/RVL/CF-T4/6 | 74033 | 1-17 |
| 15BC10/CF/CD2-MPD | 74974 | 1-17 |
| 15CAC CD2 6PK | 48396 | 1-17 |
| 15FC CD2 6PK | 48395 | 1-17 |
| 15FC/AU CD2 6PK | 48394 | 1-17 |
| 15FC/AU/CF2/5-MP | 75256 | 1-17 |
| 15R14SC/SP | 33404 | 1-8 |
| 15S11/102 | 13291 | 1-8 |
| 15S11/113 | 13210 | 1-8 |
| 15S11/3DC | 13188 | 1-8 |
| 15T10 24PK | 34407 | 1-8 |
| 15T6 | 13390 | 1-8 |
| 15T6 | 13402 | 1-8 |
| 15T6C-CD | 22114 | 1-8 |
| 15T7C | 13494 | 1-8 |
| 15T7DC CARD | 35154 | 1-8 |
| 15T7N CARD | 35153 | 1-8 |
| 161 | 16489 | 8-22 |
| 161 | 23016 | 8-22 |
| 161 | 25956 | 8-22 |
| 161 NH | 71902 | 8-22 |
| 161/BP2 | 23016 | 8-16 |
| 1612 | 27461 | 8-25 |
| 1619 | 27472 | 8-25 |
| 1630 | 27488 | 8-25 |
| 1630 | 27489 | 8-25 |
| 1638 | 27504 | 8-25 |
| 1662 | 27529 | 8-25 |
| 1665 | 27532 | 8-25 |
| 1665AF | 81658 | 8-25 |
| 168 | 12327 | 8-22 |
| 168 | 25962 | 8-22 |
| 168 | 28757 | 8-22 |
| 168 LL | 47827 | 8-22 |
| 168 NH | 89239 | 8-22 |
| 168/BP2 | 12327 | 8-16 |
| 1680X | 81668 | 8-25 |
| 1683 | 27557 | 8-25 |
| 1691 | 27566 | 8-26 |
| 1691AF | 27568 | 8-26 |
| 1692 | 27571 | 8-26 |
| 175PAR38/HEAT | 13643 | 1-13 |
| 1777 | 27630 | 8-26 |
| 1813 | 27667 | 8-26 |
| 1815 | 00758 | 8-26 |
| 1815 | 27677 | 8-26 |

Index (cont.)

| Description | Order Code | Page Number |
|-------------|------------|-------------|
| 1815 | 27679 | 8-26 |
| 1816 | 12359 | 8-26 |
| 1816 | 27688 | 8-26 |
| 1818 | 81659 | 8-26 |
| 1819 | 81660 | 8-26 |
| 1819 | 81661 | 8-26 |
| 1820 | 81663 | 8-26 |
| 1822 | 27749 | 8-26 |
| 1828 | 27772 | 8-25 |
| 1829 | 81664 | 8-26 |
| 1835 | 27804 | 8-26 |
| 1864 | 81665 | 8-26 |
| 1864 | 81666 | 8-26 |
| 1866 | 27868 | 8-26 |
| 1873 | 40383 | 8-26 |
| 1891 | 12331 | 8-26 |
| 1891 | 27917 | 8-26 |
| 1892 | 00767 | 8-26 |
| 1892 | 27927 | 8-26 |
| 1893 | 12332 | 8-26 |
| 1893 | 27935 | 8-26 |
| 1893 | 27937 | 8-26 |
| 1895 | 12330 | 8-26 |
| 1895 | 27945 | 8-26 |
| 1895 | 27948 | 8-26 |
| 1895 NH | 71896 | 8-26 |
| 1895/BP2 | 12330 | 8-16 |
| 18S11/ISC | 13655 | 1-8 |
| 193 | 19553 | 8-22 |
| 193 | 19852 | 8-22 |
| 1939X | 34021 | 8-26 |
| 193E1 | 11807 | 8-22 |
| 194 | 12328 | 8-22 |
| 194 | 25965 | 8-22 |
| 194 | 28758 | 8-22 |
| 194 NH | 89240 | 8-22 |
| 194/BP2 | 12328 | 8-16 |
| 1940 | 28008 | 8-26 |
| 1946 | 18617 | 8-26 |
| 194G | 12357 | 8-22 |
| 194LL | 25832 | 8-23 |
| 194NA | 12319 | 8-23 |
| 194NA | 27470 | 8-23 |
| 194NA | 44859 | 8-23 |
| 194NA LL | 47794 | 8-23 |
| 194NA LL NH | 71894 | 8-23 |
| 194NA/BP2 | 12319 | 8-16 |
| 194R | 12355 | 8-23 |
| 1958 | 28011 | 8-26 |
| 1962B | 39641 | 8-26 |
| 1962BG | 12859 | 8-26 |
| 1962DX | 37947 | 8-26 |
| 1962DZ | 44152 | 8-26 |
| 1962TY | 13667 | 8-26 |
| 1968 | 28034 | 8-26 |
| 1970X | 41938 | 8-26 |
| 1974 | 32780 | 8-26 |
| 1978X | 38545 | 8-26 |
| 198 | 00760 | 8-23 |
| 198 | 37983 | 8-23 |
| 198 | 37984 | 8-23 |
| 1982 | 38627 | 8-26 |
| 1982SP | 21061 | 8-26 |
| 1983 | 39718 | 8-26 |
| 1986 | 44717 | 8-26 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| 1987 | 47695 | 8-26 |
| 1988 | 38535 | 8-26 |
| 199 | 37985 | 8-23 |
| 199 | 37986 | 8-23 |
| 200A/CL-1 12PK | 16069 | 1-14 |
| 200A/RVL-TP1/6 | 89371 | 1-14 |
| 200A/W-1 12PK | 11585 | 1-14 |
| 200A/W-PK6 | 44534 | 1-14 |
| 200A21/99/IF | 25936 | 1-14 |
| 200PAR | 20122 | 1-14 |
| 200PAR46/3MFL | 20138 | 1-14 |
| 200PAR46/3MFL | 20140 | 1-14 |
| 200PAR46/3NSP | 20115 | 1-14 |
| 200PAR46/3NSP | 20117 | 1-14 |
| 200PAR56/MFL | 49889 | 1-14 |
| 200PS30RS/23/STG | 72548 | 1-14 |
| 2040 | 12326 | 8-26 |
| 2040 | 19280 | 8-26 |
| 2057 | 12296 | 8-26 |
| 2057 | 18620 | 8-26 |
| 2057 | 44760 | 8-26 |
| 2057 LL | 23339 | 8-26 |
| 2057 NH | 89237 | 8-26 |
| 2057/BP2 | 12296 | 8-16 |
| 2057NA | 12312 | 8-26 |
| 2057NA | 44763 | 8-26 |
| 2057NA LL | 47799 | 8-26 |
| 2057NA NH | 71892 | 8-26 |
| 2057NA/BP2 | 12312 | 8-16 |
| 2058U | 12899 | 8-26 |
| 2059 | 26697 | 8-26 |
| 2059X | 26698 | 8-26 |
| 2074 | 21494 | 8-26 |
| 20T61/2/F | 34272 | 1-8 |
| 20T61/2DC/F | 34241 | 1-8 |
| 210 | 25988 | 8-23 |
| 211-2 | 11803 | 8-23 |
| 211-2 | 12673 | 8-23 |
| 211-2 | 39224 | 8-23 |
| 211-2 NH | 71900 | 8-23 |
| 211-2/BP2 | 12673 | 8-16 |
| 212-2 | 23220 | 8-23 |
| 214-2 | 39356 | 8-23 |
| 21A/R40/FL | 23423 | 1-14 |
| 2232 | 34763 | 8-26 |
| 2232LL | 26702 | 8-26 |
| 2232SB | 81677 | 8-26 |
| 2233 | 36906 | 8-26 |
| 2357 | 12298 | 8-26 |
| 2357 | 16291 | 8-26 |
| 2357 NH | 71890 | 8-26 |
| 2357/BP2 | 12298 | 8-16 |
| 2357NA | 12299 | 8-26 |
| 2357NA | 15698 | 8-27 |
| 2396 | 18047 | 8-27 |
| 2397 | 27560 | 8-27 |
| 24 | 12325 | 8-22 |
| 24 | 17853 | 8-22 |
| 240PAR56/MFL | 20576 | 1-14 |
| 240PAR56/VNSP | 20575 | 1-14 |
| 240PAR56/WFL | 20577 | 1-14 |
| 24NA | 12316 | 8-22 |
| 250R40/1 6PK | 37770 | 1-14 |
| 250R40/1/STG PQ6 | 47724 | 1-14 |
| 250R40/10 6PK | 37771 | 1-14 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| 250R40/4 | 20724 | 1-14 |
| 2556 | 19792 | 8-27 |
| 2586 | 19566 | 8-27 |
| 25A/2PK-130V | 97864 | 1-8 |
| 25A/CL-2PK | 97478 | 1-8 |
| 25A/CL/2PK-130V | 97857 | 1-8 |
| 25A/SG/CD-PQ1/5 | 46645 | 1-8 |
| 25A/TB 6PK | 49724 | 1-8 |
| 25A/TE 6PK | 22732 | 1-8 |
| 25A/TG 6PK | 49725 | 1-8 |
| 25A/TP 6 PK | 22731 | 1-8 |
| 25A/TP-CD 6PK | 16333 | 1-8 |
| 25A/TPK 6PK | 22730 | 1-8 |
| 25A/TR 6PK | 49727 | 1-8 |
| 25A/TY 6PK | 49728 | 1-8 |
| 25A/TY-CD 6PK | 16335 | 1-8 |
| 25A/W-2/10PK | 97765 | 1-8 |
| 25A/W-2PK | 97492 | 1-8 |
| 25BC 25PK | 15787 | 1-17 |
| 25BC/H/CD2 | 16764 | 2-7 |
| 25BC/RVL CD2 | 48700 | 1-17 |
| 25BC10/CF/CD2-MP | 74978 | 1-17 |
| 25BC10RVL/CF2-MP | 74979 | 1-17 |
| 25BC8/CF2/PK5-MP | 75258 | 1-17 |
| 25BFM/H/CD2 | 16766 | 2-7 |
| 25BM CD2 | 22756 | 1-17 |
| 25BM/C33/CF2-TP5 | 75322 | 1-17 |
| 25BM/H/CD2 | 16760 | 2-7 |
| 25CAC 25PK | 15777 | 1-17 |
| 25CAC/CL/CD2-MPD | 66104 | 1-17 |
| 25CAC/CL/CD4-MPD | 76234 | 1-17 |
| 25CAC/F/CD2-MPD | 66105 | 1-17 |
| 25CAC/F/CD4-MPD | 76235 | 1-17 |
| 25CAC/L | 40045 | 1-17 |
| 25CAC/L/BB-CD4 | 16365 | 1-17 |
| 25FM/A/CF2-TP4 | 75339 | 1-17 |
| 25FM/AU/CF2-TP4 | 75340 | 1-17 |
| 25FM/C/CF2-TP4 | 75337 | 1-17 |
| 25FM/W/CF2-TP4 | 75338 | 1-17 |
| 25G25 6PK | 12983 | 1-17 |
| 25G25 CPK | 25545 | 1-17 |
| 25G25 CPK | 25545 | 1-19 |
| 25G25/W 6PK | 12982 | 1-17 |
| 25G25/W CPK | 25546 | 1-17 |
| 25G25/W CPK | 25546 | 1-19 |
| 25GC 12PK | 11303 | 1-17 |
| 25GC 25PK | 15790 | 1-17 |
| 25GC CD2 | 17722 | 1-17 |
| 25GC/AU/CD2 4PK | 72801 | 1-17 |
| 25GC/CL/CD2 4PK | 72800 | 1-17 |
| 25GC/RVL CD2 | 48703 | 1-17 |
| 25GC/W 12PK | 39679 | 1-17 |
| 25GC/W PQ2/6 | 44412 | 1-17 |
| 25GM/CL-PQ2/6 | 31106 | 1-17 |
| 25GM/W-PQ2/6 | 31107 | 1-17 |
| 25PAR36 | 14553 | 1-8 |
| 25PAR36/NSP | 14554 | 1-8 |
| 25PAR36/VWFL | 14556 | 1-8 |
| 25PAR36/WFL | 14555 | 1-8 |
| 25PAR46 | 14562 | 1-9 |
| 25R14N | 18230 | 1-9 |
| 25R14N | 39156 | 1-9 |
| 25R14SC/SP | 33405 | 1-9 |
| 25S11/4SC | 14575 | 1-9 |
| 25T10 24PK | 14880 | 1-9 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| 25T10 CD1-5PK | 45144 | 1-9 |
| 25T10/F CD1-5PK | 45513 | 1-9 |
| 25T61/2 | 14639 | 1-9 |
| 25T61/2 | 14641 | 1-9 |
| 25T61/2 CD1-6PK | 44727 | 1-9 |
| 25T61/2/DC | 14678 | 1-9 |
| 25T61/2/F | 14668 | 1-9 |
| 25T61/2DC | 14676 | 1-9 |
| 25T61/2DC/F | 14685 | 1-9 |
| 25T7DC | 14741 | 1-9 |
| 25T7N | 14791 | 1-9 |
| 25T7N-CD 6PK | 10692 | 1-9 |
| 2604X | 43805 | 8-27 |
| 265 | 44719 | 8-23 |
| 27R20/FL/LL 6PK | 47681 | 1-9 |
| 29A/CL/H-2PK | 78795 | 2-6 |
| 29A/CL/RVL/H-2PK | 62607 | 2-6 |
| 29A/W/2X/H/4PK | 60285 | 2-6 |
| 29A/W/H-2PK | 63002 | 2-6 |
| 29A/W/H-4/12PK | 66246 | 2-6 |
| 29A/W/RVL/H-2PK | 63006 | 2-6 |
| 29BM/H/CD2 | 60269 | 2-7 |
| 29CAM/H/CD2 | 60273 | 2-7 |
| 29G25/H/CL | 60100 | 2-8 |
| 29G25/H/W | 60199 | 2-8 |
| 30/100-1PK | 97493 | 1-9 |
| 30/100-HALOGEN | 24699 | 2-7 |
| 30/100RVL- PQ1/12 | 97784 | 1-9 |
| 300 | 12025 | 1-14 |
| 300/IF | 21079 | 1-14 |
| 300M/130V-PK6 | 73788 | 1-14 |
| 300M/IF/130V-PK3 | 73790 | 1-14 |
| 300PAR56/MFL | 20836 | 1-15 |
| 300PAR56/MFL | 20838 | 1-15 |
| 300PAR56/NSP | 20803 | 1-15 |
| 300PAR56/WFL | 20849 | 1-15 |
| 300PAR56/WFL | 20851 | 1-15 |
| 300PAR56/WFL | 23427 | 1-15 |
| 300R/3FL | 21254 | 1-15 |
| 300R/FL | 21213 | 1-14 |
| 300R/FL | 21215 | 1-14 |
| 300R/FL/1 | 21229 | 1-14 |
| 300R/SP | 21197 | 1-14 |
| 301 | 81642 | 8-23 |
| 3011 | 36508 | 8-27 |
| 303 | 81641 | 8-23 |
| 304 | 81643 | 8-23 |
| 305 | 26143 | 8-23 |
| 3057 | 12305 | 8-27 |
| 3057 | 18389 | 8-27 |
| 3057 LL | 26378 | 8-27 |
| 3057 NH | 89243 | 8-27 |
| 3057/BP2 | 12305 | 8-16 |
| 3057NA | 12313 | 8-27 |
| 3057NA | 18391 | 8-27 |
| 305AF | 26145 | 8-23 |
| 306 | 26152 | 8-23 |
| 307 | 81644 | 8-23 |
| 3078 | 14698 | 8-27 |
| 307AF | 26161 | 8-23 |
| 308 | 81645 | 8-23 |
| 308AF | 81646 | 8-23 |
| 309 | 26175 | 8-23 |
| 30R20/1 | 46848 | 1-9 |
| 30R20/1-6PK | 14891 | 1-9 |

| Description | Order Code | Page Number |
|--------------------|------------|-------------|
| 30R20/6 | 46849 | 1-9 |
| 30S11/DC/RS | 17948 | 1-9 |
| 311 | 81647 | 8-23 |
| 313 | 81649 | 8-23 |
| 313 | 81650 | 8-23 |
| 315 | 81651 | 8-23 |
| 3155 | 23028 | 8-27 |
| 3156 | 12351 | 8-27 |
| 3156 | 21863 | 8-27 |
| 3156 LL | 27565 | 8-27 |
| 3156 NH | 71898 | 8-27 |
| 3156/BP2 | 12351 | 8-16 |
| 3157 | 12306 | 8-27 |
| 3157 | 17172 | 8-27 |
| 3157 LL | 26377 | 8-27 |
| 3157 NH | 89244 | 8-27 |
| 3157/BP2 | 12306 | 8-16 |
| 3157NA | 12314 | 8-27 |
| 3157NA | 17173 | 8-27 |
| 3157NA LL | 26380 | 8-27 |
| 3157NA NH | 71893 | 8-27 |
| 3157NA/BP2 | 12314 | 8-16 |
| 316 | 81652 | 8-23 |
| 317 | 80862 | 8-23 |
| 327 | 28519 | 8-23 |
| 328 | 28546 | 8-23 |
| 330 | 28567 | 8-23 |
| 334 | 28588 | 8-23 |
| 3357/3457 | 14387 | 8-27 |
| 3357/3457 | 22525 | 8-27 |
| 3357/3457 LL | 26379 | 8-27 |
| 3357NA/3457NA | 14388 | 8-27 |
| 3357NA/3457NA | 22526 | 8-27 |
| 3457/BP2 | 14387 | 8-16 |
| 3457NH | 71901 | 8-27 |
| 3496 | 25834 | 8-27 |
| 3497 | 25835 | 8-27 |
| 350PAR56/SP | 19866 | 1-15 |
| 356 | 26255 | 8-23 |
| 35AR111/FL24 | 97533 | 2-8 |
| 35AR111/SP4 | 72253 | 2-8 |
| 35AR111/SP8 | 97532 | 2-8 |
| 35MR16/6/TL-AX | 81282 | 2-8 |
| 35MR16/Q/8/TL-AX | 78816 | 2-8 |
| 35PAR16CURIO | 20641 | 2-6 |
| 35PAR20H/F25-PQ1/6 | 85476 | 2-6 |
| 35PAR20H/YR-TP12 | 71740 | 2-6 |
| 35PAR36/H/FL30 | 19877 | 2-6 |
| 35PAR36/H/SP5 | 19873 | 2-6 |
| 35PAR36/H/SP8 | 19876 | 2-6 |
| 35PAR36/H/VVWFL | 42072 | 2-6 |
| 3652 | 25837 | 8-27 |
| 37 | 17460 | 8-22 |
| 37 | 26480 | 8-22 |
| 37 | 39220 | 8-22 |
| 375R40 | 21331 | 1-15 |
| 375R40/1 | 21334 | 1-15 |
| 380 | 87381 | 8-23 |
| 381 | 28653 | 8-23 |
| 382 | 28657 | 8-23 |
| 385 | 28660 | 8-23 |
| 386 | 28662 | 8-23 |
| 387 | 25090 | 8-23 |
| 387 | 28664 | 8-23 |
| 388 | 28672 | 8-23 |

| Description | Order Code | Page Number |
|--------------------|------------|-------------|
| 38PAR20H/FL25 | 69163 | 2-6 |
| 38PAR20H/FL25/P2 | 69165 | 2-6 |
| 38PAR20H/SP10 | 69164 | 2-6 |
| 38PAR20HIR+/FL30 | 69148 | 2-6 |
| 38PAR20HIR+/SP15 | 69149 | 2-6 |
| 38PAR30H/FL25 | 69166 | 2-6 |
| 38PAR30H/SP10 | 69167 | 2-6 |
| 38PAR30L/H/FL25 | 69168 | 2-6 |
| 38PAR30L/H/SP10 | 69169 | 2-6 |
| 38PAR38H1500F25/P2 | 60074 | 2-5 |
| 38PARH1500FL25 | 69136 | 2-5 |
| 38PARH1500SP10 | 69135 | 2-5 |
| 394 | 87398 | 8-23 |
| 3CAC/FF/CD1-6PK | 73254 | 1-16 |
| 3S6/5 24PK | 11098 | 1-7 |
| 400 | 38918 | 8-23 |
| 4000 | 18511 | 8-14 |
| 4000 | 18511 | 8-31 |
| 400R40/FL | 17542 | 1-15 |
| 4013 | 24327 | 8-31 |
| 4014 | 24338 | 8-31 |
| 4019 | 24369 | 8-31 |
| 4040 | 38418 | 8-31 |
| 4042 | 39585 | 8-31 |
| 4044 | 40588 | 8-31 |
| 4044-1 | 10540 | 8-31 |
| 40A 48PK | 13255 | 1-15 |
| 40A/CL-2PK | 97470 | 1-15 |
| 40A/RVL 48PK | 48687 | 1-15 |
| 40A/W 48PK | 13257 | 1-15 |
| 40A15 | 15199 | 1-9 |
| 40A15 CARD 12PK | 15206 | 1-9 |
| 40A15 CD/2 | 21188 | 1-9 |
| 40A15/CA/CF/CD2 | 71393 | 1-10 |
| 40A15/CA/W/CF-CD2 | 71394 | 1-10 |
| 40A15/CF/CD2 6PK | 44409 | 1-9 |
| 40A15/CF/RVL CD2 | 48696 | 1-9 |
| 40A15/CF/STGPQ2/6 | 46887 | 1-10 |
| 40A15/F 120PK | 27451 | 1-9 |
| 40A15/FF/CD | 27495 | 1-9 |
| 40A15/RVL CD2 | 48706 | 1-10 |
| 40A15/RVL-PQ1/6 | 31084 | 1-10 |
| 40A15W/CF/CD2 6PK | 44410 | 1-9 |
| 40A15WCF/RVL CD2 | 48697 | 1-10 |
| 40BC 25PK | 15788 | 1-18 |
| 40BC/H/CD2 | 16765 | 2-7 |
| 40BC/RVL CD2 | 48701 | 1-18 |
| 40BC/RVL/CF-T4/6 | 74035 | 1-18 |
| 40BC10/CF/CD2-MP | 75033 | 1-18 |
| 40BC10RVL/CF2-MP5 | 75034 | 1-18 |
| 40BC8/CF2/PK5-MP | 75259 | 1-18 |
| 40BFM/CF2/PK4-MP | 75317 | 1-18 |
| 40BFM/H/CD2 | 16767 | 2-7 |
| 40BM CD2 | 12993 | 1-18 |
| 40BM/H/CD2 | 16761 | 2-7 |
| 40BM/RVL CD2 | 48699 | 1-18 |
| 40BM/RVL/CD2-4PK | 72780 | 1-18 |
| 40CAC 25PK | 15778 | 1-18 |
| 40CAC/CL/CD2-MPD | 76236 | 1-18 |
| 40CAC/CL/CD4-MPD | 76237 | 1-18 |
| 40CAC/F/CD2-MPD | 66106 | 1-18 |
| 40CAC/F/CD4-MPD | 76238 | 1-18 |
| 40CAC/L/BB-CD4 | 48341 | 1-18 |
| 40CAM/CF6/PK5-MP | 75335 | 1-18 |
| 40CAM/CL/CD2-MPD | 66109 | 1-18 |

Index (cont.)

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| 40CAM/CL/CD4-MPD | 76230 | 1-18 |
| 40CAM/L/BB CD4 | 48342 | 1-18 |
| 40CAM/LL/BB CD2 | 22813 | 1-18 |
| 40FM/A/CF2-TP4 | 75344 | 1-18 |
| 40FM/AU/CF2-TP4 | 75343 | 1-18 |
| 40FM/C/CF2-TP4 | 75341 | 1-18 |
| 40FM/W/CF2-TP4 | 75342 | 1-18 |
| 40G25 6PK | 12980 | 1-18 |
| 40G25 CPK | 25548 | 1-18 |
| 40G25 CPK | 25548 | 1-19 |
| 40G25/CL/H/RVL | 82140 | 2-8 |
| 40G25/H/CRYSTAL | 16774 | 2-8 |
| 40G25/W 6PK | 12979 | 1-18 |
| 40G25/W CPK | 25547 | 1-18 |
| 40G25/W CPK | 25547 | 1-19 |
| 40G25C/RVL PQ1/6 | 48694 | 1-18 |
| 40G25H/CRV/RV-TP | 71373 | 2-8 |
| 40G25W/RVL PQ1/6 | 48695 | 1-18 |
| 40G40/W 6PK | 36191 | 1-18 |
| 40GC 12PK | 14958 | 1-18 |
| 40GC CD2 | 17730 | 1-18 |
| 40GC/AU/CD2-4PK | 72803 | 1-18 |
| 40GC/CL/CD2-4PK | 72802 | 1-18 |
| 40GC/CL/H-PQ2/3 | 82131 | 2-8 |
| 40GC/RVL CD2 | 48704 | 1-18 |
| 40GC/W PQ2/6 | 44414 | 1-18 |
| 40GC/W/CD2-4PK | 72209 | 1-18 |
| 40GC/W/RVL CD2 | 48705 | 1-18 |
| 40GM/CL-PQ2/6 | 31109 | 1-18 |
| 40GM/CL/H-PQ2/3 | 82133 | 2-8 |
| 40GM/W-PQ2/6 | 31110 | 1-18 |
| 40R14/CD | 25776 | 1-10 |
| 40R14/N/CD | 25777 | 1-10 |
| 40R16/CD | 25781 | 1-10 |
| 40S11N/1 CARD | 35156 | 1-10 |
| 40S11N/1/F | 15734 | 1-10 |
| 40T10 | 15852 | 1-10 |
| 40T10/CL CD1-5PK | 45514 | 1-10 |
| 40T10/F | 15892 | 1-10 |
| 40T10/F CD1-5PK | 45145 | 1-10 |
| 40T10/F/RVL CD1 | 48709 | 1-10 |
| 40T10/H/CD | 16777 | 2-8 |
| 40T10/RVL CD1 | 48707 | 1-10 |
| 40T10P | 15921 | 1-16 |
| 40T6 1/2/2 | 15740 | 1-10 |
| 40T61/2/2CD1-6PK | 44422 | 1-10 |
| 40T61/2/2F | 15742 | 1-10 |
| 4157LL | 15657 | 8-27 |
| 4157NA LL | 47458 | 8-27 |
| 4313 | 25051 | 8-31 |
| 4340 | 39366 | 8-31 |
| 4350 | 39362 | 8-31 |
| 43A/CL/H-2PK | 78796 | 2-6 |
| 43A/CL/RVL/H-2PK | 62616 | 2-6 |
| 43A/W/2X/H/4PK | 60071 | 2-7 |
| 43A/W/H-2PK | 63003 | 2-6 |
| 43A/W/H-4/12PK | 66247 | 2-7 |
| 43A/W/RVL/H-2PK | 63007 | 2-7 |
| 43BM/H/CD2 | 60271 | 2-7 |
| 43CAM/H/CD2 | 60276 | 2-7 |
| 43G25/H/CL | 60076 | 2-8 |
| 43G25/H/W | 60109 | 2-8 |
| 44 | 25450 | 8-22 |
| 4402A | 12961 | 8-31 |
| 4405 | 24425 | 8-31 |

| Description | Order Code | Page Number |
|-------------|------------|-------------|
| 4406 | 24430 | 8-31 |
| 4410 | 24439 | 8-31 |
| 4411 | 24448 | 8-14 |
| 4411 | 24448 | 8-31 |
| 4411-1 | 37889 | 8-31 |
| 4411-3 | 29040 | 8-31 |
| 4412 | 24454 | 8-14 |
| 4412 | 24454 | 8-31 |
| 4412A | 24460 | 8-14 |
| 4412A | 24460 | 8-31 |
| 4413 | 22981 | 8-31 |
| 4414 | 24478 | 8-14 |
| 4414 | 24478 | 8-31 |
| 4414R | 24487 | 8-31 |
| 4415 | 22982 | 8-14 |
| 4415 | 22982 | 8-31 |
| 4415A | 24499 | 8-14 |
| 4415A | 24499 | 8-31 |
| 4416 | 22983 | 8-31 |
| 4416-1 | 34901 | 8-31 |
| 4416A | 24506 | 8-31 |
| 4416R | 24513 | 8-31 |
| 4419 | 24531 | 8-31 |
| 4421 | 24539 | 8-14 |
| 4421 | 24539 | 8-31 |
| 4422 | 24542 | 8-31 |
| 4434A | 24572 | 8-14 |
| 4434A | 24572 | 8-31 |
| 4435 | 24577 | 8-31 |
| 4436 | 24582 | 8-31 |
| 4440X | 39932 | 8-31 |
| 4440X-1 | 39748 | 8-31 |
| 4446 | 37046 | 8-31 |
| 4460X | 40176 | 8-31 |
| 4461 | 24592 | 8-31 |
| 4466 | 24596 | 8-31 |
| 4478 | 24613 | 8-31 |
| 4502 | 24627 | 8-31 |
| 4505 | 24640 | 8-31 |
| 4509 | 24650 | 8-31 |
| 4509X | 41503 | 8-31 |
| 4509Y | 11524 | 8-31 |
| 4510 | 24654 | 8-31 |
| 4511 | 24663 | 8-31 |
| 4515 | 24673 | 8-31 |
| 4516 | 24678 | 8-31 |
| 4519 | 24690 | 8-32 |
| 4522 | 24700 | 8-32 |
| 4530 | 24721 | 8-32 |
| 4531 | 24726 | 8-32 |
| 4532 | 19628 | 8-32 |
| 4535 | 24735 | 8-32 |
| 4537 | 24742 | 8-32 |
| 4537-2 | 40822 | 8-32 |
| 4537X | 39022 | 8-32 |
| 4541 | 24756 | 8-32 |
| 4543 | 24764 | 8-32 |
| 4545 | 24768 | 8-32 |
| 4546 | 24780 | 8-32 |
| 4546-1 | 24770 | 8-32 |
| 4551 | 24795 | 8-32 |
| 4552 | 40576 | 8-32 |
| 4553 | 24799 | 8-32 |
| 4554 | 24802 | 8-32 |
| 4557 | 40581 | 8-32 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| 4559 | 40578 | 8-32 |
| 456 | 26441 | 8-23 |
| 4570 | 24828 | 8-32 |
| 4571 | 24830 | 8-32 |
| 4572 | 24833 | 8-32 |
| 4578 | 25005 | 8-32 |
| 4579 | 25009 | 8-32 |
| 4580 | 24859 | 8-32 |
| 4581 | 24862 | 8-32 |
| 4582 | 24853 | 8-32 |
| 4587 | 24867 | 8-32 |
| 4589 | 24873 | 8-32 |
| 4589-1 | 23509 | 8-32 |
| 4591 | 24882 | 8-32 |
| 4593 | 24887 | 8-32 |
| 4594 | 24891 | 8-32 |
| 4595 | 24892 | 8-32 |
| 4596 | 24898 | 8-32 |
| 45BR30/H/HIR-TP6 | 74206 | 2-6 |
| 45BR40/H/HIR-TP6 | 74207 | 2-6 |
| 45PAR/HIR+/FL25 | 90513 | 2-5 |
| 45PAR/HIR+/SP10 | 90512 | 2-5 |
| 45R/FL/MI-1 6PK | 20330 | 1-10 |
| 45R20/130V | 73029 | 1-10 |
| 45R20/FL/LL 6PK | 47682 | 1-10 |
| 45R20/H/HIR-TP6 | 74204 | 2-6 |
| 45R20/RVL PK1/6 | 73439 | 1-10 |
| 45R20/TWIN | 18279 | 1-10 |
| 45R20/YR | 73026 | 1-10 |
| 45R20/YR-PK2/3 | 73025 | 1-10 |
| 45R20MI/1-6PK | 14878 | 1-10 |
| 45R30/FL/LL 6PK | 26804 | 1-10 |
| 4626 | 24964 | 8-32 |
| 4627 | 24966 | 8-32 |
| 4635 | 33284 | 8-32 |
| 4636-3 | 19632 | 8-32 |
| 464 | 39645 | 8-23 |
| 4651 | 18517 | 8-14 |
| 4651 | 18517 | 8-32 |
| 4652 | 18518 | 8-14 |
| 4652 | 18518 | 8-32 |
| 47 | 25485 | 8-22 |
| 4700 | 39906 | 8-32 |
| 4713 | 46427 | 8-32 |
| 4752 | 44724 | 8-32 |
| 4800 | 24973 | 8-14 |
| 4800 | 24973 | 8-32 |
| 4811 | 24980 | 8-32 |
| 4825R | 24981 | 8-32 |
| 4880 | 24995 | 8-32 |
| 48PAR/HIR+/FL25 | 90519 | 2-5 |
| 48PAR/HIR+/SP10 | 90515 | 2-5 |
| 48PAR30/HIR+/FL30 | 76126 | 2-6 |
| 48PAR30/HIR+/SP10 | 76127 | 2-6 |
| 48PAR30/L/HIR+/FL | 73546 | 2-6 |
| 48PAR30/L/HIR+/SP | 74779 | 2-6 |
| 48PAR30HIR+/NFL | 66580 | 2-6 |
| 4912-1 | 45110 | 8-14 |
| 4912-1 | 45110 | 8-32 |
| 4913-1 | 45113 | 8-32 |
| 4921-1 | 45116 | 8-14 |
| 4921-1 | 45116 | 8-32 |
| 4C7 CARD 2 | 43050 | 1-7 |
| 4C7/BL CD2 6PK | 26223 | 1-7 |
| 4C7/BL/CD2-6PK | 73260 | 1-7 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| 4C7/PK-CD2 6PK | 26222 | 1-7 |
| 4C7/PK/CD2-6PK | 73259 | 1-7 |
| 4C7/S CD4 | 20572 | 1-7 |
| 4C7/S/CD4-6PK | 73257 | 1-7 |
| 4C7/S/W/CD4-6PK | 73258 | 1-7 |
| 4C7/W CD2 | 16001 | 1-7 |
| 4C7/W/S CD4 | 20573 | 1-7 |
| 50/150-1PK | 97494 | 1-11 |
| 50/150-2PK | 97763 | 1-11 |
| 50/150-HALOGEN | 81590 | 2-7 |
| 50/150/H/RVL-TP6 | 71367 | 2-7 |
| 50/150/LL-1/12PK | 97781 | 1-11 |
| 50/150/RVL-2PK | 97469 | 1-11 |
| 50/150RVL-1/12PQ | 97785 | 1-11 |
| 50/250/1-1PK | 97482 | 1-11 |
| 500 | 21532 | 1-15 |
| 5001 | 11639 | 8-32 |
| 5004 CW | 28154 | 8-27 |
| 5004 WW | 28155 | 8-27 |
| 5008CW | 28160 | 8-27 |
| 5008WW | 28163 | 8-27 |
| 500PAR64/MFL | 39409 | 1-15 |
| 500PAR64/MFL | 39411 | 1-15 |
| 500PAR64/MFL | 39409 | 7-8 |
| 500PAR64/MFL | 39411 | 7-8 |
| 500PAR64/NSP | 39406 | 1-15 |
| 500PAR64/NSP | 39406 | 7-8 |
| 500PAR64/WFL | 39412 | 1-15 |
| 500PAR64/WFL | 39414 | 1-15 |
| 500PAR64/WFL | 39412 | 7-8 |
| 500PAR64/WFL | 39414 | 7-8 |
| 500R/3FL | 21734 | 1-15 |
| 500R/3FL | 21736 | 1-15 |
| 500R40/5FL/SLV | 48316 | 1-15 |
| 5013CW | 28168 | 8-27 |
| 5013WW | 28169 | 8-27 |
| 50A19/RS/SH | 16201 | 1-10 |
| 50AR111/FL24 | 97535 | 2-8 |
| 50AR111/SP4 | 72254 | 2-8 |
| 50AR111/SP8 | 97534 | 2-8 |
| 50AR70/SP8 | 72255 | 2-8 |
| 50ER30 | 44429 | 1-10 |
| 50MR16/Q/10/TL | 30901 | 2-8 |
| 50MR16/Q/20/TL | 30900 | 2-8 |
| 50MR16/Q/40/TL | 30899 | 2-8 |
| 50PAR36/H/FL30 | 19880 | 2-6 |
| 50PAR36/H/SP5 | 19878 | 2-6 |
| 50PAR36/H/SP8 | 19879 | 2-6 |
| 50PAR36/NSP | 16540 | 1-10 |
| 50PAR36/VNSP | 12892 | 1-10 |
| 50PAR36/VWFL | 16542 | 1-10 |
| 50PAR36/WFL | 16541 | 1-10 |
| 50PAR36/WFL/4 | 11468 | 1-10 |
| 50PARHIR+3KF25P2 | 66284 | 2-5 |
| 50PARHIR+3KFL25T | 62714 | 2-5 |
| 50PARHIR+3KS10P2 | 66283 | 2-5 |
| 50PARHIR+3KSP10T | 62713 | 2-5 |
| 50R20/BLB 6PK | 22752 | 1-10 |
| 50R20/PL/1-6PK | 14888 | 1-10 |
| 5104 WW | 28173 | 8-27 |
| 5104CW | 27367 | 8-27 |
| 5106CW | 12774 | 8-27 |
| 5106WW | 33612 | 8-27 |
| 5108 WW | 28175 | 8-27 |
| 5108CW | 27466 | 8-27 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| 5113 WW | 28178 | 8-27 |
| 5113CW | 12775 | 8-27 |
| 53 | 25550 | 8-22 |
| 53 | 25552 | 8-22 |
| 53A/CL/H-2PK | 78797 | 2-7 |
| 53A/CL/RVL/H-2PK | 62617 | 2-7 |
| 53A/W/2X/H/4PK | 60070 | 2-7 |
| 53A/W/H-2PK | 63004 | 2-7 |
| 53A/W/H-4/12PK | 66248 | 2-7 |
| 53A/W/RVL/H-2PK | 63008 | 2-7 |
| 53PARHIR+8KF25T2 | 68957 | 2-5 |
| 53PARHIR+XL/FL25 | 76143 | 2-5 |
| 53PARHIR+XL/SP10 | 76142 | 2-5 |
| 53PARHIR+XLF25P6 | 67823 | 2-5 |
| 53PARHIR+XLS10P6 | 67822 | 2-5 |
| 5557 | 16152 | 8-32 |
| 55PAR/HIR+/FL25 | 71598 | 2-5 |
| 55PAR/HIR+/SP10 | 71446 | 2-5 |
| 55PAR/HIR+/WFL | 69819 | 2-5 |
| 561 | 11820 | 8-23 |
| 561 | 12358 | 8-23 |
| 561 | 39746 | 8-23 |
| 562 | 23019 | 8-23 |
| 563 | 11825 | 8-23 |
| 57 | 23218 | 8-22 |
| 57 | 25591 | 8-22 |
| 58540 | 47461 | 8-29 |
| 590 | 18442 | 8-23 |
| 6.6A/T10/1P | 23294 | 1-16 |
| 6.6A/T10P | 23295 | 1-16 |
| 6.6A/T14P | 23298 | 1-16 |
| 6006 | 25114 | 8-14 |
| 6006 | 25114 | 8-32 |
| 6014 | 18519 | 8-14 |
| 6014 | 18519 | 8-32 |
| 6015 | 38416 | 8-14 |
| 6015 | 38416 | 8-32 |
| 6034BP | 29897 | 8-27 |
| 6034BPGPL | 29895 | 8-27 |
| 6045 | 25153 | 8-32 |
| 6052 | 18521 | 8-14 |
| 6052 | 18521 | 8-32 |
| 60A 48PK | 41026 | 1-16 |
| 60A/BLB 6PK | 25905 | 1-11 |
| 60A/CL-2PK | 97490 | 1-16 |
| 60A/PL 6PK | 41624 | 1-11 |
| 60A/RS/STG-T2/12 | 72549 | 1-11 |
| 60A/RS130-PK2/12 | 72529 | 1-11 |
| 60A/S/130-TP2/12 | 72528 | 1-11 |
| 60A/SPK-2PK | 97483 | 1-11 |
| 60A/W 48PK | 41028 | 1-16 |
| 60A/W/LL-2PK | 97496 | 1-16 |
| 60AY-2PK | 97495 | 1-11 |
| 60A15/CA/CF/CD2 | 71395 | 1-11 |
| 60A15/CA/W/CF-CD2 | 71396 | 1-11 |
| 60A15/CF CD2 6PK | 44407 | 1-11 |
| 60A15/CF/RVL CD2 | 48698 | 1-11 |
| 60A15/W/CF-CD2 | 14029 | 1-11 |
| 60A15CF/STGPQ2/6 | 46888 | 1-11 |
| 60BC/RVL CD2 | 48714 | 1-19 |
| 60BC/RVL/CF-T4/6 | 74036 | 1-19 |
| 60BC10/CF/CD2-MP | 76229 | 1-19 |
| 60BC10RVL/CF2-MP | 75201 | 1-19 |
| 60BM/RVL CD2 | 48713 | 1-19 |
| 60BM/RVL/CD2-4PK | 72781 | 1-19 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| 60CAC 25PK | 15781 | 1-19 |
| 60CAC/CL/CD2-MPD | 66107 | 1-19 |
| 60CAC/CL/CD4-MPD | 76239 | 1-19 |
| 60CAC/F/CD2-MPD | 66108 | 1-19 |
| 60CAC/F/CD4-MPD | 76240 | 1-19 |
| 60G25/CL/H/RVL | 82141 | 2-8 |
| 60G40 6PK | 14187 | 1-19 |
| 60G40/W 6PK | 49780 | 1-19 |
| 60G40/W CPK | 16741 | 1-19 |
| 60GC CD2 | 23091 | 1-19 |
| 60GC/CD2-4PK | 72777 | 1-19 |
| 60GC/CL/H-PQ2/3 | 82132 | 2-8 |
| 60GC/W PQ2/6 | 44723 | 1-19 |
| 60GM/CL/H-PQ2/3 | 82134 | 2-8 |
| 60PAR/2/R | 17212 | 1-11 |
| 60PAR/HIR+/FL25 | 90529 | 2-5 |
| 60PAR/HIR+/SP10 | 90520 | 2-5 |
| 60PAR16/H/FL30 | 41623 | 2-6 |
| 60PAR16FL/RVL-CD | 82142 | 2-6 |
| 60PARH1500F25/P2 | 66280 | 2-5 |
| 60PARH1500FL25TP | 62704 | 2-5 |
| 60PARH1500S10/P2 | 66279 | 2-5 |
| 60PARH1500SP10TP | 62703 | 2-5 |
| 60PARHIR/FL30-6PK | 11878 | 2-5 |
| 60T10/H/CD | 16778 | 2-8 |
| 620PS40P | 21950 | 1-16 |
| 620PS40P | 21952 | 1-16 |
| 623 | 81653 | 8-23 |
| 623 | 81654 | 8-23 |
| 631 | 23023 | 8-23 |
| 631 | 26570 | 8-23 |
| 658 | 81670 | 8-23 |
| 658 | 81671 | 8-23 |
| 65BR30/H/RVL-TP | 75414 | 2-6 |
| 65BR40/H/HIR-TP6 | 77757 | 2-6 |
| 65R/FL/MI-TWIN | 18011 | 1-11 |
| 65R/FL/RVL PQ1/6 | 48692 | 1-11 |
| 65R30/FL | 46855 | 1-12 |
| 65R30/FL/LL 6PK | 26805 | 1-11 |
| 65R30/FL/LLPQ2/3 | 48917 | 1-11 |
| 65R30/FL/MI- 6PK | 20331 | 1-11 |
| 65R30/PL-1 6PK | 20996 | 1-12 |
| 65R30/RVL/TW-3PK | 73179 | 1-12 |
| 65R30/SP | 46856 | 1-12 |
| 65R30/SP/LL 6PK | 26806 | 1-11 |
| 65R30/SP/MI-6PK | 20332 | 1-11 |
| 65R30FL/COMM12PK | 22714 | 1-11 |
| 65R30FL/STGPQ1/6 | 47723 | 1-12 |
| 65R30FLRVL-PK2/3 | 11684 | 1-11 |
| 65R40/FL | 46861 | 1-12 |
| 65R40/FL/LL | 47683 | 1-12 |
| 65R40/FL/MI-6PK | 14016 | 1-12 |
| 65R40FL/RVL-TP6 | 87904 | 1-12 |
| 67 | 25652 | 8-16 |
| 67 | 12324 | 8-22 |
| 67 | 25652 | 8-22 |
| 67 | 25654 | 8-22 |
| 67NH | 71895 | 8-22 |
| 67PAR/HIR+/FL25 | 90602 | 2-5 |
| 67PAR/HIR+/SP10 | 90601 | 2-5 |
| 68 | 25692 | 8-22 |
| 680 | 87407 | 8-23 |
| 683 | 87336 | 8-23 |
| 6832 | 87360 | 8-27 |
| 6832AS15 | 87351 | 8-27 |

Index (cont.)

| Description | Order Code | Page Number |
|----------------------|------------|-------------|
| 6839 | 87291 | 8-27 |
| 6839BPE | 29893 | 8-27 |
| 6839BPEGPL | 29894 | 8-27 |
| 683AS15 | 87321 | 8-23 |
| 685 | 28706 | 8-23 |
| 6S6 | 11329 | 1-7 |
| 6S6 | 11372 | 1-7 |
| 6S6 | 11374 | 1-7 |
| 6S6 TRAY | 11367 | 1-7 |
| 6S6 TRAY | 11369 | 1-7 |
| 6S6 24PK | 11316 | 1-7 |
| 6S6 24PK | 11331 | 1-7 |
| 6S6 BB | 43397 | 1-7 |
| 6S6 CARD2 | 15820 | 1-7 |
| 6S6/3 | 11577 | 1-7 |
| 6S6/7 TRAY 24PK | 11660 | 1-7 |
| 6S6/DC TRAY | 11594 | 1-7 |
| 6S6DC 24PK | 11357 | 1-7 |
| 6S6DC 24PK | 11609 | 1-7 |
| 6S6DC TRAY | 11592 | 1-7 |
| 6T41/2/1 | 11764 | 1-7 |
| 7 1/2S TRAY | 11847 | 1-7 |
| 7 1/2S TRAY | 11848 | 1-7 |
| 7 1/2S/CW TRAY | 11922 | 1-7 |
| 70/240A/RL/SW6PK | 15846 | 1-12 |
| 705 | 43132 | 8-23 |
| 70PARHIR+3KF25P1 | 68978 | 2-5 |
| 70PARHIR+3KS10P1 | 68979 | 2-5 |
| 70PARHIR+3KS8P1 | 68980 | 2-5 |
| 71/2S/CW CARD | 41267 | 1-7 |
| 71/2S/CW/CD-5PK | 73261 | 1-7 |
| 713 | 87411 | 8-23 |
| 7132AS15 | 87274 | 8-27 |
| 71423 - GE432MAXP-N+ | 71423 | 10-21 |
| 715 | 29903 | 8-23 |
| 7152 | 87402 | 8-28 |
| 7152AS15 | 97548 | 8-28 |
| 715AS15 | 29901 | 8-23 |
| 718 | 29916 | 8-23 |
| 718AS15 | 29905 | 8-23 |
| 72A/CL/H-2PK | 78798 | 2-7 |
| 72A/CL/RV/H-2PK | 62618 | 2-7 |
| 72A/W/2X/H/4PK | 60035 | 2-7 |
| 72A/W/H-2PK | 63005 | 2-7 |
| 72A/W/H-4/12PK | 66249 | 2-7 |
| 72A/W/RV/H-2PK | 63009 | 2-7 |
| 73 | 23015 | 8-22 |
| 73 | 28770 | 8-22 |
| 7387 | 28926 | 8-28 |
| 74 | 21029 | 8-22 |
| 74 | 38457 | 8-22 |
| 74 | 38458 | 8-22 |
| 7400 | 40190 | 8-32 |
| 7400-1 | 42385 | 8-32 |
| 7414Y | 39987 | 8-32 |
| 7440 | 26200 | 8-28 |
| 7440LL | 67905 | 8-28 |
| 7443 | 26201 | 8-28 |
| 7443 NH | 89248 | 8-28 |
| 7443/BP2 | 26201 | 8-16 |
| 7443LL | 67906 | 8-28 |
| 755 | 26591 | 8-23 |
| 756 | 26593 | 8-24 |
| 757 | 81655 | 8-24 |
| 75A 48PK | 41030 | 1-16 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| 75A-2/24PK | 97779 | 1-16 |
| 75A/CL-2PK | 97468 | 1-16 |
| 75A/RS 12PK-5 | 18274 | 1-12 |
| 75A/RS 60PK | 17527 | 1-12 |
| 75A/RS/STG PQ1/6 | 46895 | 1-12 |
| 75A/RS/STG-TP6 | 72550 | 1-12 |
| 75A/RS130-PK6 | 72530 | 1-12 |
| 75A/RVL 48PK | 48689 | 1-16 |
| 75A/W 48PK | 41032 | 1-16 |
| 75A/W/LL-2PK | 97497 | 1-16 |
| 75AR111/FL24 | 97537 | 2-8 |
| 75AR111/FL45 | 97538 | 2-8 |
| 75AR111/SP8 | 97536 | 2-8 |
| 75E17/TF-4PK | 73289 | 1-19 |
| 75E17/TF-PK4 | 28917 | 1-19 |
| 75G40/W 6PK | 36193 | 1-19 |
| 75PAR/3FL/65WMM | 80314 | 1-12 |
| 75PAR/3FL/MINE | 80316 | 1-12 |
| 75PAR/3SP/MINE | 80319 | 1-12 |
| 75PAR/FL/EX-120 | 14510 | 1-16 |
| 75PAR16/H/FL30 | 41629 | 2-6 |
| 75PAR46/TS | 36473 | 1-12 |
| 75PARHIR+8KF25T2 | 68956 | 2-5 |
| 75PARHIR+8KFL25T | 62231 | 2-5 |
| 75PARHIR+8KSP10T | 62232 | 2-5 |
| 75R30/BLB 6PK | 22748 | 1-12 |
| 7613 | 41865 | 8-32 |
| 7613-1 | 45101 | 8-32 |
| 767 | 11014 | 8-24 |
| 7672-1 | 11421 | 8-33 |
| 773 | 11250 | 8-24 |
| 774 | 12723 | 8-24 |
| 774 | 12724 | 8-24 |
| 778 | 49718 | 8-24 |
| 780 | 18344 | 8-24 |
| 782 | 44840 | 8-24 |
| 782 | 44841 | 8-24 |
| 783 | 44500 | 8-24 |
| 783 | 44501 | 8-24 |
| 784 | 43760 | 8-24 |
| 784 | 43761 | 8-24 |
| 785 | 43762 | 8-24 |
| 785 | 43763 | 8-24 |
| 786 | 43764 | 8-24 |
| 786 | 43765 | 8-24 |
| 787 | 43115 | 8-24 |
| 787 | 43116 | 8-24 |
| 788 | 43117 | 8-24 |
| 788 | 43118 | 8-24 |
| 789 | 43119 | 8-24 |
| 790 | 43121 | 8-24 |
| 791 | 43123 | 8-24 |
| 791 | 43124 | 8-24 |
| 795 | 20469 | 8-24 |
| 7C7 TRAY | 11779 | 1-7 |
| 7C7 TRAY | 11792 | 1-7 |
| 7C7/W TRAY | 11815 | 1-7 |
| 80PARHIR+3KF25P1 | 66303 | 2-5 |
| 80PARHIR+3KF25P2 | 66307 | 2-5 |
| 80PARHIR+3KS10P1 | 66302 | 2-5 |
| 80PARHIR+3KS10P2 | 66306 | 2-5 |
| 83PAR/HIR+/FL25 | 90606 | 2-5 |
| 83PAR/HIR+/SP10 | 90605 | 2-5 |
| 85 | 40969 | 8-22 |
| 85PAR/FL/BLG 6PK | 20945 | 1-12 |

| Description | Order Code | Page Number |
|-------------|------------|-------------|
| 862 | 14132 | 8-24 |
| 862 | 40848 | 8-24 |
| 88 | 25772 | 8-22 |
| 880 | 12320 | 8-24 |
| 880 | 20904 | 8-24 |
| 880 LL | 27582 | 8-24 |
| 880 NH | 25101 | 8-24 |
| 880 NH | 25163 | 8-24 |
| 880/BP | 12320 | 8-12 |
| 880NH/BP | 25163 | 8-10 |
| 880NH/BP2 | 25101 | 8-10 |
| 881 | 12334 | 8-24 |
| 881 | 20905 | 8-24 |
| 881 LL | 27583 | 8-24 |
| 881/BP | 12334 | 8-12 |
| 882 | 13158 | 8-24 |
| 882 | 13161 | 8-24 |
| 882X | 18167 | 8-24 |
| 885 | 12335 | 8-24 |
| 885 | 20907 | 8-24 |
| 885/BP | 12335 | 8-12 |
| 886 | 14689 | 8-24 |
| 886 | 20909 | 8-24 |
| 886/BP | 14689 | 8-12 |
| 887 | 25639 | 8-24 |
| 888 | 25703 | 8-24 |
| 889 | 12336 | 8-24 |
| 889 | 20910 | 8-24 |
| 889/BP | 12336 | 8-12 |
| 89 | 12363 | 8-22 |
| 89 | 25778 | 8-22 |
| 89 LL | 47797 | 8-22 |
| 89/BP2 | 12363 | 8-16 |
| 890 | 12337 | 8-24 |
| 890 | 20911 | 8-24 |
| 890/BP | 12337 | 8-12 |
| 891 | 12308 | 8-24 |
| 891 | 15246 | 8-24 |
| 891 | 15248 | 8-24 |
| 891/BP | 12308 | 8-12 |
| 893 | 12338 | 8-24 |
| 893 | 20913 | 8-24 |
| 893 NH | 25102 | 8-24 |
| 893 NH | 25172 | 8-24 |
| 893/BP | 12338 | 8-12 |
| 893CL | 89115 | 8-24 |
| 893NH/BP | 25172 | 8-10 |
| 893NH/BP2 | 25102 | 8-10 |
| 894 | 18455 | 8-24 |
| 894 | 20238 | 8-24 |
| 894 | 22112 | 8-24 |
| 894/BP | 22112 | 8-12 |
| 896 | 20914 | 8-24 |
| 896 | 22113 | 8-24 |
| 896/BP | 22113 | 8-12 |
| 898 | 12271 | 8-24 |
| 898 | 98093 | 8-24 |
| 898/BP | 98093 | 8-12 |
| 899 | 12272 | 8-24 |
| 899 | 22111 | 8-24 |
| 899/BP | 22111 | 8-12 |
| 90 | 12364 | 8-22 |
| 90 | 25794 | 8-22 |
| 90 | 25796 | 8-22 |
| 9003 | 22389 | 8-12 |

| Description | Order Code | Page Number |
|--------------|------------|-------------|
| 9003 LL | 78935 | 8-28 |
| 9003 NH | 25107 | 8-28 |
| 9003 NH | 25150 | 8-28 |
| 9003 NHP | 75814 | 8-28 |
| 9003 NHS | 66004 | 8-28 |
| 9003 NHS | 89139 | 8-28 |
| 9003 NHS | 89230 | 8-28 |
| 9003 NHX | 69861 | 8-28 |
| 9003 NHX/BP2 | 69861 | 8-9 |
| 9003/BP | 22432 | 8-12 |
| 9003/BP | 22432 | 8-14 |
| 9003/BP2 | 72252 | 8-12 |
| 9003/HB2 | 22432 | 8-28 |
| 9003LL/BP | 78935 | 8-11 |
| 9003LL/BP | 78935 | 8-13 |
| 9003NH/BP | 25150 | 8-10 |
| 9003NH/BP* | 25150 | 8-14 |
| 9003NH/BP2 | 25107 | 8-10 |
| 9003NHP/BP2 | 75814 | 8-9 |
| 9003NHS/BP | 89139 | 8-10 |
| 9003NHS/BP2 | 66004 | 8-10 |
| 9004 | 13382 | 8-12 |
| 9004 LL | 13993 | 8-28 |
| 9004 NH | 25106 | 8-28 |
| 9004 NH | 25149 | 8-28 |
| 9004 NHP | 75815 | 8-28 |
| 9004 NHS | 97698 | 8-28 |
| 9004 NHS | 97699 | 8-28 |
| 9004/BP | 18508 | 8-12 |
| 9004/BP | 18508 | 8-14 |
| 9004/BP2 | 14604 | 8-12 |
| 9004/HB1 | 18508 | 8-28 |
| 9004LL/BP | 13993 | 8-11 |
| 9004LL/BP | 13993 | 8-13 |
| 9004NH/BP | 25149 | 8-10 |
| 9004NH/BP* | 25149 | 8-14 |
| 9004NH/BP2 | 25106 | 8-10 |
| 9004NHP/BP2 | 75815 | 8-9 |
| 9004NHS/BP | 97698 | 8-10 |
| 9004NHS/BP2 | 97699 | 8-10 |
| 9005 | 13384 | 8-12 |
| 9005 NH | 25105 | 8-28 |
| 9005 NH | 25148 | 8-28 |
| 9005 NHP | 75816 | 8-28 |
| 9005 NHS | 89140 | 8-28 |
| 9005 NHS | 89232 | 8-28 |
| 9005 NHX | 69862 | 8-28 |
| 9005 NHX/BP2 | 69862 | 8-9 |
| 9005 XS LL | 45866 | 8-28 |
| 9005/BP | 18509 | 8-12 |
| 9005/BP | 18509 | 8-14 |
| 9005/HB3 | 18509 | 8-28 |
| 9005NH/BP | 25148 | 8-10 |
| 9005NH/BP* | 25148 | 8-14 |
| 9005NH/BP2 | 25105 | 8-10 |
| 9005NHP/BP2 | 75816 | 8-9 |
| 9005NHS/BP | 89140 | 8-10 |
| 9005NHS/BP2 | 66005 | 8-10 |
| 9005XSLL/BP | 45866 | 8-11 |
| 9005XSLL/BP | 45866 | 8-13 |
| 9005XSLL/BP | 45866 | 8-14 |
| 9006 | 13397 | 8-12 |
| 9006 NH | 25104 | 8-28 |
| 9006 NH | 25147 | 8-28 |
| 9006 NHP | 75817 | 8-28 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| 9006 NHS | 97700 | 8-28 |
| 9006 NHS | 97701 | 8-28 |
| 9006 NHX | 69863 | 8-28 |
| 9006 NHX/BP2 | 69863 | 8-9 |
| 9006 XS LL | 45868 | 8-28 |
| 9006/BP | 18510 | 8-12 |
| 9006/BP | 18510 | 8-14 |
| 9006/BP2 | 25135 | 8-12 |
| 9006/HB4 | 18510 | 8-28 |
| 9006NH/BP | 25147 | 8-10 |
| 9006NH/BP* | 25147 | 8-14 |
| 9006NH/BP2 | 25104 | 8-10 |
| 9006NHP/BP2 | 75817 | 8-9 |
| 9006NHS/BP | 97700 | 8-10 |
| 9006NHS/BP2 | 97701 | 8-10 |
| 9006XSLL/BP | 45868 | 8-11 |
| 9006XSLL/BP | 45868 | 8-13 |
| 9006XSLL/BP | 45868 | 8-14 |
| 9007 | 20551 | 8-12 |
| 9007 LL | 78639 | 8-28 |
| 9007 NH | 25103 | 8-28 |
| 9007 NH | 25146 | 8-28 |
| 9007 NHP | 75818 | 8-29 |
| 9007 NHS | 97696 | 8-28 |
| 9007 NHS | 97697 | 8-29 |
| 9007 NHX | 69864 | 8-29 |
| 9007 NHX/BP2 | 69864 | 8-9 |
| 9007/BP | 22388 | 8-12 |
| 9007/BP | 22388 | 8-14 |
| 9007/BP2 | 25136 | 8-12 |
| 9007/HB5 | 22388 | 8-28 |
| 9007LL/BP | 78639 | 8-11 |
| 9007LL/BP | 78639 | 8-13 |
| 9007NH/BP | 25146 | 8-10 |
| 9007NH/BP* | 25146 | 8-14 |
| 9007NH/BP2 | 25103 | 8-10 |
| 9007NHP/BP2 | 75818 | 8-9 |
| 9007NHS/BP | 97696 | 8-10 |
| 9007NHS/BP2 | 97697 | 8-10 |
| 9008 (H13)/BP | 71342 | 8-12 |
| 9008(H13) | 71342 | 8-29 |
| 9008(H13) NH | 78653 | 8-29 |
| 9008(H13) NHP | 62430 | 8-29 |
| 9008(H13) NHS | 78654 | 8-29 |
| 901 | 14273 | 8-24 |
| 901/LAND/BP2 | 71479 | 1-16 |
| 904 | 23024 | 8-24 |
| 904 | 40462 | 8-24 |
| 904 | 40463 | 8-24 |
| 906 | 12366 | 8-24 |
| 906 | 28763 | 8-24 |
| 906 | 40289 | 8-24 |
| 908 | 16858 | 8-24 |
| 908 | 44754 | 8-24 |
| 909 | 16859 | 8-24 |
| 909 | 44756 | 8-24 |
| 90A/Y-2PK | 61435 | 1-12 |
| 90PARH1500F25/P2 | 66282 | 2-5 |
| 90PARH1500FL25TP | 62706 | 2-5 |
| 90PARH1500S10/P2 | 66281 | 2-5 |
| 90PARH1500SP10TP | 62705 | 2-5 |
| 90PARHIR+3KF25P2 | 66286 | 2-5 |
| 90PARHIR+3KFL25T | 62716 | 2-5 |
| 90PARHIR+3KS10P2 | 66285 | 2-5 |
| 90PARHIR+3KSP10T | 62715 | 2-5 |

| Description | Order Code | Page Number |
|---------------------|------------|-------------|
| 912 | 12365 | 8-24 |
| 912 | 28767 | 8-24 |
| 912 | 40504 | 8-24 |
| 912 NH | 89242 | 8-24 |
| 912/BP2 | 12365 | 8-16 |
| 914 | 44769 | 8-24 |
| 9145/BP | 40843 | 8-12 |
| 9145/BP | 40843 | 8-12 |
| 9145/H10 | 40843 | 8-29 |
| 915 | 44771 | 8-24 |
| 915 | 44772 | 8-24 |
| 916 | 23025 | 8-24 |
| 916 | 28768 | 8-24 |
| 916NA | 21860 | 8-24 |
| 918 | 17837 | 8-24 |
| 918 | 40179 | 8-24 |
| 918/LAND/BP2 | 71480 | 1-16 |
| 921 | 12307 | 8-24 |
| 921 | 43374 | 8-24 |
| 921 | 45752 | 8-24 |
| 921 NH | 89238 | 8-24 |
| 921/BP2 | 12307 | 8-16 |
| 921XE | 85938 | 8-24 |
| 922 | 13274 | 8-24 |
| 922 | 13275 | 8-24 |
| 922 | 23027 | 8-24 |
| 922 NH | 71903 | 8-24 |
| 922/BP2 | 23027 | 8-16 |
| 923 | 40180 | 8-24 |
| 923/LAND/BP2 | 71481 | 1-16 |
| 926 | 13483 | 8-24 |
| 927 | 13485 | 8-25 |
| 927 | 13486 | 8-25 |
| 93 | 25811 | 8-16 |
| 93 | 17461 | 8-22 |
| 93 | 23217 | 8-22 |
| 93 | 25811 | 8-22 |
| 939 | 15285 | 8-25 |
| 939 | 16975 | 8-25 |
| 93NH | 71904 | 8-22 |
| 94 | 00764 | 8-22 |
| 94 | 25829 | 8-22 |
| 963 | 23684 | 8-25 |
| 97 | 12322 | 8-22 |
| 97 | 25836 | 8-22 |
| 97 | 25838 | 8-22 |
| 98 | 16287 | 8-22 |
| A-103 | 26696 | 8-29 |
| B1A | 12064 | 8-29 |
| B239PUNV-DOG1C | 47540 | 13-5 |
| B2A | 12065 | 8-29 |
| B7A | 31675 | 8-29 |
| BCM-Q20MT32/4CL | 48772 | 7-8 |
| BP-FM/TP | 64824 | 15-6 |
| BP-LP/TP | 64822 | 15-6 |
| BP/TP | 64823 | 15-6 |
| BTL-Q500T6/CL/P | 88547 | 7-7 |
| BTM-Q500T6/4CL/2P | 88546 | 7-7 |
| BTN-Q750T7/CL/2P | 88605 | 7-7 |
| BTP-Q750T7/4CL/2P | 88606 | 7-7 |
| BTR-Q1000T7/4CL/2P | 88607 | 7-7 |
| BVT-Q1000T7/CL/MP | 88608 | 7-7 |
| BVV-Q1000T7/4CL/MP | 88631 | 7-7 |
| BVV-Q2000T10/4CL/MP | 88609 | 7-8 |
| BWF-Q2000/4CL | 88611 | 7-8 |

Index (cont.)

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| C5W | 23312 | 8-29 |
| CAX | 29169 | 9-6 |
| CAX | 29171 | 9-6 |
| CDT-20-360-R | 63268 | 21-3 |
| CIR-05-360-D | 63270 | 21-3 |
| CIR-15-360-D | 63272 | 21-3 |
| CIR-15-360-D-T | 63273 | 21-3 |
| CIR-2H-360-D-T | 63274 | 21-3 |
| CMH100/C/U830MED | 22137 | 3-10 |
| CMH100/U/830/MED | 22127 | 3-10 |
| CMH100PAR38FLECO | 45681 | 3-10 |
| CMH100PAR38SPECO | 45680 | 3-10 |
| CMH100PAR38WFECO | 45682 | 3-10 |
| CMH150CU830MED/O | 31066 | 3-10 |
| CMH150CU942MED/O | 31068 | 3-10 |
| CMH150TDB30RX7S | 92589 | 3-11 |
| CMH150TD942RX7S | 92590 | 3-11 |
| CMH150TU/830/G12 | 20017 | 3-11 |
| CMH150TU/942/G12 | 20018 | 3-11 |
| CMH150U830MED/O | 31065 | 3-10 |
| CMH150U942MED/O | 31067 | 3-10 |
| CMH20MR16/830/FL | 85110 | 3-9 |
| CMH20MR16/830/SP | 85101 | 3-9 |
| CMH20MR16/830WFL | 97638 | 3-9 |
| CMH20PAR20/FL | 29486 | 3-9 |
| CMH20PAR20/SP | 29485 | 3-9 |
| CMH20PAR30/FL25 | 29489 | 3-9 |
| CMH20PAR30/SP10 | 29487 | 3-9 |
| CMH20PAR30/SP15 | 29488 | 3-9 |
| CMH20T/U/830/G12 | 29703 | 3-11 |
| CMH20T/U830GU6.5 | 85086 | 3-11 |
| CMH20TCU830/G8.5 | 92696 | 3-11 |
| CMH250/U/830/R | 93357 | 3-11 |
| CMH250/V/PA/O | 48429 | 3-11 |
| CMH250C/V/PA/O | 48432 | 3-11 |
| CMH320/V/PA/O | 17264 | 3-11 |
| CMH320C/V/PA/O | 17267 | 3-11 |
| CMH350/V/PA/O | 20035 | 3-11 |
| CMH350C/V/PA/O | 20036 | 3-11 |
| CMH39/930G12ULR | 79399 | 3-10 |
| CMH39/930G8.5ULR | 79400 | 3-11 |
| CMH39/PAR30LSP10 | 45066 | 3-9 |
| CMH39MR16/930/FL | 71489 | 3-9 |
| CMH39MR16/930/SP | 71488 | 3-9 |
| CMH39MR16/930WFL | 71490 | 3-9 |
| CMH39MR16/942/FL | 71492 | 3-9 |
| CMH39MR16/942/SP | 71491 | 3-9 |
| CMH39MR16/942WFL | 71493 | 3-9 |
| CMH39MR16UL93/FL | 62293 | 3-9 |
| CMH39MR16UL93/SP | 62292 | 3-9 |
| CMH39MR16UL93WFL | 62294 | 3-9 |
| CMH39PAR20/FL4K | 96527 | 3-9 |
| CMH39PAR20/NSP4K | 96526 | 3-9 |
| CMH39PAR30L/FL25 | 42067 | 3-9 |
| CMH39PAR30L/FL4K | 96530 | 3-9 |
| CMH39PAR30L/SP15 | 42066 | 3-9 |
| CMH39PAR30L/SP4K | 96529 | 3-9 |
| CMH39PAR30LNSP4K | 96528 | 3-9 |
| CMH39T/U/942/G12 | 29696 | 3-11 |
| CMH39T/U930GU6.5 | 71484 | 3-11 |
| CMH39T/U942GU6.5 | 71487 | 3-11 |
| CMH39TCU830/G8.5 | 90352 | 3-11 |
| CMH39TCU942/G8.5 | 29698 | 3-11 |
| CMH39TUVU830G12 | 20153 | 3-11 |
| CMH39ULR930GU6.5 | 62291 | 3-11 |

| Description | Order Code | Page Number |
|--------------------|------------|-------------|
| CMH39UPAR20FL25 | 42068 | 3-9 |
| CMH39UPAR20SP10 | 42069 | 3-9 |
| CMH400/C/V/PA/O | 17260 | 3-11 |
| CMH400/U/830/R | 93295 | 3-11 |
| CMH400/V/PA/O | 17259 | 3-11 |
| CMH70/C/U/830MED | 22124 | 3-10 |
| CMH70/TD/830RX7S | 92587 | 3-11 |
| CMH70/TD/942RX7S | 92588 | 3-11 |
| CMH70/U/830/MED | 22119 | 3-10 |
| CMH70CU830MED/O | 31070 | 3-10 |
| CMH70CU942MED/O | 31074 | 3-10 |
| CMH70PAR30L830FL | 22159 | 3-9 |
| CMH70PAR30L830SP | 22152 | 3-9 |
| CMH70PAR38FL/ECO | 45677 | 3-10 |
| CMH70PAR38SP/ECO | 45675 | 3-10 |
| CMH70PAR38WF/ECO | 45679 | 3-10 |
| CMH70TCU830G8.5 | 92585 | 3-11 |
| CMH70TCU942/G8.5 | 29701 | 3-11 |
| CMH70TU/830/G12 | 20016 | 3-11 |
| CMH70TU/942/G12 | 20023 | 3-11 |
| CMH70U830MED/O | 31069 | 3-10 |
| CMH70U930G12ULR | 73056 | 3-10 |
| CMH70U930G8.5ULR | 73057 | 3-11 |
| CMH70U942MED/O | 31073 | 3-10 |
| CMHi23P38FL/ECO | 76225 | 3-9 |
| CMHi23P38SP/ECO | 76224 | 3-9 |
| CMHi23P38WFL/ECO | 76226 | 3-9 |
| CSR1200/2/SE | 49490 | 7-9 |
| CSR1200/S/DE/60 | 22494 | 7-9 |
| CSR1200/SA | 21849 | 7-9 |
| CSR1200/SE/HR/UVC | 27764 | 7-9 |
| CSR12000/SE/HR | 48468 | 7-9 |
| CSR12000/SE/HR/UVC | 97272 | 7-9 |
| CSR125/SE/HR | 48461 | 7-9 |
| CSR1500/S/DE/60 | 96800 | 7-9 |
| CSR1500/TAL/60/S | 74873 | 7-9 |
| CSR1800/SE/HR/UVC | 77390 | 7-9 |
| CSR18000/DE | 48459 | 7-9 |
| CSR18000/SE/HR | 22496 | 7-9 |
| CSR200/DE | 48450 | 7-9 |
| CSR200/SE/HR/UVC | 48462 | 7-9 |
| CSR2500/SE/HR/UVC | 40482 | 7-9 |
| CSR300/2/TAL | 76160 | 7-9 |
| CSR400/SE/HR/UVC | 21853 | 7-9 |
| CSR4000/DE | 48455 | 7-9 |
| CSR4000/SE/HR/UVC | 27765 | 7-9 |
| CSR575/2/SE | 15378 | 7-9 |
| CSR575/S/DE/70 | 70979 | 7-9 |
| CSR575/SE/HR/UVC | 40460 | 7-9 |
| CSR575/SS/DE/75 | 45231 | 7-9 |
| CSR6000/SE/HR/UVC | 40492 | 7-9 |
| CSR700/2/SE | 49491 | 7-9 |
| CSR700/S/DE/72 | 41357 | 7-10 |
| CSR700/SA | 15380 | 7-9 |
| CSR800/SE/HR/UVC | 22495 | 7-9 |
| CSR9000/SE/HR | 65852 | 7-9 |
| CUS-05-180 | 63275 | 21-3 |
| CUS-05-180-R | 63276 | 21-3 |
| CUS-10-180 | 63277 | 21-3 |
| CUS-10-180-R | 63278 | 21-3 |
| CUS-20-360 | 63279 | 21-3 |
| CUS-20-360-R | 63280 | 21-3 |
| CKZ-Q1500T10/4CL | 88612 | 7-8 |
| CVV-Q1000T7/4CL/BP | 88630 | 7-7 |
| CYX-Q2000T10/4CL | 88610 | 7-8 |

| Description | Order Code | Page Number |
|---------------------|------------|-------------|
| D1S | 78734 | 8-29 |
| D1S Unit | 78734 | 8-11 |
| D1S UNIT | 78734 | 8-14 |
| D2R | 80851 | 8-29 |
| D2R Bulk | 46911 | 8-11 |
| D2R Unit | 80851 | 8-11 |
| D2R UNIT | 80851 | 8-14 |
| D2S | 25088 | 8-29 |
| D2S Blue | 90057 | 8-11 |
| D2S BLUE | 90057 | 8-29 |
| D2S Bulk | 48504 | 8-11 |
| D2S SUPERBLUE | 90059 | 8-29 |
| D2S Unit | 25088 | 8-11 |
| D2S UNIT | 25088 | 8-14 |
| DDL | 43537 | 9-6 |
| DE 3425 | 12085 | 8-29 |
| DE3021 | 25323 | 8-29 |
| DE3022 | 12353 | 8-29 |
| DE3175 | 12354 | 8-29 |
| DE3175 NH | 89245 | 8-29 |
| DE3175/BP2 | 12354 | 8-16 |
| DE3175LL | 67909 | 8-29 |
| DE7576 | 23324 | 8-29 |
| DED | 43950 | 9-6 |
| DKX/DSF-Q1500PS52/4 | 40357 | 7-8 |
| DKZ/DSE-Q1000PS52/4 | 39582 | 7-7 |
| DLM1000/927 | 99607 | 6-12 |
| DLM1000/930 | 99608 | 6-12 |
| DLM1000/935 | 99609 | 6-12 |
| DLM1000/940 | 99610 | 6-12 |
| DLM1500/927 | 99611 | 6-12 |
| DLM1500/930 | 99612 | 6-12 |
| DLM1500/935 | 99613 | 6-12 |
| DLM1500/940 | 99614 | 6-12 |
| DLM2000/927 | 99615 | 6-12 |
| DLM2000/930 | 99616 | 6-12 |
| DLM2000/935 | 99617 | 6-12 |
| DLM2000/940 | 99618 | 6-12 |
| DLM3000/927 | 99619 | 6-12 |
| DLM3000/930 | 99620 | 6-12 |
| DLM3000/935 | 99621 | 6-12 |
| DLM3000/940 | 99622 | 6-12 |
| DLM4000/927 | 99623 | 6-12 |
| DLM4000/930 | 99624 | 6-12 |
| DLM4000/935 | 99625 | 6-12 |
| DLM4000/940 | 99626 | 6-12 |
| DPY-Q5000T20/4CL | 41736 | 7-8 |
| DSE/Q1000 | 19926 | 7-7 |
| DTY-Q10M/T24/4CL | 24886 | 7-8 |
| DWE-Q650PAR36/1 | 41667 | 7-8 |
| DXB | 30151 | 9-6 |
| DXW-Q1000T5/4CL | 30157 | 7-7 |
| DYR | 33250 | 9-6 |
| DYS/DYV/BHC | 32955 | 7-7 |
| DYS/DYV/BHC | 32955 | 9-6 |
| DZA | 37346 | 9-6 |
| DZA | 37346 | 7-7 |
| EGE-Q500CL/P | 88617 | 7-7 |
| EGG-Q750CL/P | 88619 | 7-7 |
| EGJ-Q1000/4CL/P | 88615 | 7-7 |
| EKG-Q1000/4P | 88614 | 7-7 |
| EGN-Q500T8 | 88509 | 7-7 |
| EGR-Q750T7/4CL | 88621 | 7-7 |
| EGT-Q1000T7/4CL | 88622 | 7-7 |
| EHC-Q500/5CL | 88628 | 7-7 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| EHD-Q50OCL/TP | 88624 | 7-7 |
| EHF-Q750/4CL | 88627 | 7-7 |
| EHG-Q750CL/TP | 88626 | 7-7 |
| EHJ | 14874 | 9-6 |
| EJG-Q750T3/4CL | 23756 | 7-7 |
| EKE | 35200 | 9-6 |
| ELC | 37462 | 9-6 |
| ELC/500 | 15377 | 9-6 |
| EMD-Q750T3/4 | 23755 | 7-7 |
| ENL | 25475 | 9-6 |
| ENX | 41705 | 9-6 |
| ENX-5 | 19475 | 9-6 |
| EPT | 41729 | 9-6 |
| EIT | 38311 | 9-6 |
| EVV | 10099 | 9-6 |
| EWR | 11427 | 9-6 |
| EXL | 11478 | 9-6 |
| EXM | 11482 | 9-6 |
| EYB | 12696 | 9-6 |
| EZL | 15243 | 9-6 |
| F102D/827/4P | 21301 | 5-9 |
| F13BX/827/ECO | 97573 | 5-7 |
| F13BX/830/ECO | 97574 | 5-7 |
| F13BX/835/ECO | 97569 | 5-7 |
| F13BX/841/ECO | 97571 | 5-7 |
| F13BX/850/ECO | 97572 | 5-7 |
| F13BX/E/830/ECO | 97563 | 5-7 |
| F13DBX/827/ECO | 97590 | 5-8 |
| F13DBX/827/ECO4P | 97594 | 5-8 |
| F13DBX/830/ECO | 97591 | 5-8 |
| F13DBX/830/ECO4P | 97595 | 5-8 |
| F13DBX/835/ECO | 97592 | 5-8 |
| F13DBX/835/ECO4P | 97596 | 5-8 |
| F13DBX/841/ECO | 97593 | 5-8 |
| F13DBX/841/ECO4P | 97597 | 5-8 |
| F13DBX23/827/ECO | 97586 | 5-8 |
| F13DBX23/830/ECO | 97587 | 5-8 |
| F13DBX23/835/ECO | 97588 | 5-8 |
| F13DBX23/841/ECO | 97589 | 5-8 |
| F13T5/CW | 10086 | 4-9 |
| F13T5/CW/CB | 49333 | 4-23 |
| F13T5/CW/CB | 49333 | 4-9 |
| F13T5/CW/CVG | 41108 | 4-17 |
| F13T5/KB/RVL/CB | 67420 | 4-23 |
| F13T5/WW | 10089 | 4-9 |
| F13T5/WW/CB | 25426 | 4-23 |
| F13T5/WW/CB | 25426 | 4-9 |
| F13T5/XL/CW | 90064 | 4-9 |
| F13T8/CW | 10098 | 4-13 |
| F13T8/CW/CVG | 41109 | 4-19 |
| F13TBX/827/A/ECO | 97619 | 5-8 |
| F13TBX/830/A/ECO | 97620 | 5-8 |
| F13TBX/835/A/ECO | 97621 | 5-8 |
| F13TBX/841/A/ECO | 97622 | 5-8 |
| F13TBX827/4P/ECO | 97623 | 5-8 |
| F14T12/CW | 10116 | 4-16 |
| F14T12/CW 6PK | 10117 | 4-16 |
| F14T12/CW 6PK | 10117 | 4-23 |
| F14T12/KB 6PK | 22979 | 4-16 |
| F14T12/KB 6PK | 22979 | 4-23 |
| F14T5/830/WM/ECO | 71632 | 4-8 |
| F14T5/835/WM/ECO | 71633 | 4-8 |
| F14T5/841/WM/ECO | 71634 | 4-8 |
| F14T5/850/WM/ECO | 71635 | 4-8 |
| F14T5/865/WM/ECO | 71636 | 4-8 |

| Description | Order Code | Page Number |
|-----------------------|------------|-------------|
| F14T8/CW | 10104 | 4-13 |
| F14W/T5/830/ECO | 31590 | 4-8 |
| F14W/T5/830/ECO/CVG | 73194 | 4-17 |
| F14W/T5/835/ECO | 46671 | 4-8 |
| F14W/T5/835/ECO/CVG | 73195 | 4-17 |
| F14W/T5/841/ECO | 46673 | 4-8 |
| F14W/T5/850/ECO | 46674 | 4-8 |
| F14W/T5/865/ECO | 46676 | 4-8 |
| F15T12/CW 6PK | 10183 | 4-16 |
| F15T12/CW 6PK | 10183 | 4-23 |
| F15T12/CW/CVG | 41114 | 4-19 |
| F15T12/KB 6PK | 22745 | 4-16 |
| F15T12/KB 6PK | 22745 | 4-23 |
| F15T12/WW | 10185 | 4-16 |
| F15T8/AR/FS 6PK | 22910 | 4-21 |
| F15T8/AR/FS 6PK | 22910 | 4-24 |
| F15T8/BL 6PK | 35884 | 4-20 |
| F15T8/BL 6PK | 35884 | 4-23 |
| F15T8/BLB 6PK | 35885 | 4-20 |
| F15T8/BLB 6PK | 35885 | 4-23 |
| F15T8/CW | 10142 | 4-13 |
| F15T8/CW 6PK | 10143 | 4-13 |
| F15T8/CW 6PK | 10143 | 4-23 |
| F15T8/CW/CVG | 41110 | 4-19 |
| F15T8/D | 10134 | 4-13 |
| F15T8/KB 6PK | 21326 | 4-13 |
| F15T8/KB 6PK | 21326 | 4-23 |
| F15T8/KB/CVG/UPC | 46627 | 4-19 |
| F15T8/KB/CVG/UPC | 46627 | 4-24 |
| F15T8/KB/RVL 6PK | 79043 | 4-23 |
| F15T8/PL/AQ 6PK | 49892 | 4-21 |
| F15T8/PL/AQ 6PK | 49892 | 4-24 |
| F15T8/SP35 | 17911 | 4-13 |
| F15T8/SP35/CVG | 46216 | 4-19 |
| F15T8/SP41 | 19643 | 4-13 |
| F15T8/SPX30 | 19644 | 4-13 |
| F15T8/SPX35 | 19645 | 4-13 |
| F15T8/SPX35/CVG | 41111 | 4-19 |
| F15T8/SUN 6PK | 13968 | 4-13 |
| F15T8/SUN 6PK | 13968 | 4-23 |
| F15T8/WW | 10147 | 4-13 |
| F15T8/XL/SPX65 | 49489 | 4-12 |
| F162D/827/4P | 22169 | 5-9 |
| F162D/835/4P | 22177 | 5-9 |
| F17T8/BLB/6PK | 72759 | 4-20 |
| F17T8/GO/ECOCVG | 25779 | 4-21 |
| F17T8/SP30/ECO | 45741 | 4-9 |
| F17T8/SP35/ECO | 45743 | 4-9 |
| F17T8/SP41/ECO | 45748 | 4-9 |
| F17T8/SPX30/ECO | 45742 | 4-9 |
| F17T8/SPX35/ECO | 45747 | 4-9 |
| F17T8/SPX41/ECO | 45749 | 4-9 |
| F17T8/SXL/SPX35/ECO | | 4-10 |
| F17T8/SXL/SPX41/ECO | | 4-10 |
| F17T8/SXL/SPX50/ECO | | 4-10 |
| F17T8/XL/SP30/ECO | 15476 | 4-9 |
| F17T8/XL/SP35/ECO | 15479 | 4-9 |
| F17T8/XL/SP41/ECO | 15480 | 4-9 |
| F17T8/XL/SPX30/ECO | 15481 | 4-9 |
| F17T8/XL/SPX30/WM/ECO | 72132 | 4-10 |
| F17T8/XL/SPX35/ECO | 15483 | 4-10 |
| F17T8/XL/SPX35/WM/ECO | 72133 | 4-10 |
| F17T8/XL/SPX41/ECO | 15484 | 4-10 |
| F17T8/XL/SPX41/WM/ECO | 72134 | 4-10 |
| F17T8/XL/SPX50/ECO | 10415 | 4-10 |

| Description | Order Code | Page Number |
|-----------------------|------------|-------------|
| F17T8/XL/SPX50/WM/ECO | 72135 | 4-10 |
| F17T8/XL/SPX65/ECO | 16092 | 4-10 |
| F17T8SP35ECOCVG | 15974 | 4-18 |
| F17T8SP41ECOCVG | 15977 | 4-18 |
| F17T8SP35ECOCVG | 15975 | 4-18 |
| F17T8SPX41ECOCVG | 15976 | 4-18 |
| F17T8XLSPX50ECOCVG | 28885 | 4-18 |
| F18BX/SPX30 10PK | 16649 | 5-7 |
| F18BX/SPX35 10PK | 16053 | 5-7 |
| F18BX/SPX41 10PK | 16940 | 5-7 |
| F18BX/SPX65/RS | 12521 | 5-7 |
| F18BXSPX30RS10PK | 17174 | 5-7 |
| F18BXSPX35RS10PK | 17175 | 5-7 |
| F18DBX/827/ECO | 97577 | 5-8 |
| F18DBX/827/ECO4P | 97598 | 5-8 |
| F18DBX/830/ECO | 97578 | 5-8 |
| F18DBX/830/ECO4P | 97599 | 5-8 |
| F18DBX/835/ECO | 97579 | 5-8 |
| F18DBX/835/ECO4P | 97600 | 5-8 |
| F18DBX/841/ECO | 97580 | 5-8 |
| F18DBX/841/ECO4P | 97601 | 5-8 |
| F18T12/CW/HO | 10204 | 4-15 |
| F18T8/835/XLR | 93311 | 4-13 |
| F18T8/841/XLR | 93317 | 4-13 |
| F18TBX/827/A/ECO | 97624 | 5-8 |
| F18TBX/830/A/ECO | 97625 | 5-8 |
| F18TBX/835/A/ECO | 97626 | 5-8 |
| F18TBX/841/A/ECO | 97627 | 5-8 |
| F18TBX827/4P/ECO | 97628 | 5-8 |
| F20T12/AR/FR 6PK | 22908 | 4-24 |
| F20T12/B 6PK | 10231 | 4-21 |
| F20T12/B 6PK | 10231 | 4-23 |
| F20T12/BL 6PK | 10244 | 4-20 |
| F20T12/BL 6PK | 10244 | 4-23 |
| F20T12/BLB 6PK | 34747 | 4-20 |
| F20T12/BLB 6PK | 34747 | 4-23 |
| F20T12/C50/ECO | 80044 | 4-16 |
| F20T12/CW/ECO | 80045 | 4-16 |
| F20T12/CW/ECO 6PK | 80046 | 4-16 |
| F20T12/CW/ECO 6PK | 80046 | 4-23 |
| F20T12/D/ECO | 80047 | 4-16 |
| F20T12/D/ECO/UPC | 25575 | 4-16 |
| F20T12/D/ECO/UPC | 25575 | 4-23 |
| F20T12/G 6PK | 10233 | 4-21 |
| F20T12/G 6PK | 10233 | 4-23 |
| F20T12/KB/ECO | 21325 | 4-16 |
| F20T12/KB/ECO | 21325 | 4-23 |
| F20T12/PL/AQ/ECO | 49891 | 4-22 |
| F20T12/PL/AQ/ECO | 49891 | 4-24 |
| F20T12/SP35/ECO | 80048 | 4-16 |
| F20T12/SP41 | 15353 | 4-16 |
| F20T12/SPX35/ECO | 80049 | 4-16 |
| F20T12/SUN/ECO | 14419 | 4-16 |
| F20T12/SUN/ECO | 14419 | 4-23 |
| F20T12/WW/ECO | 80050 | 4-16 |
| F20T12/WW/ECO/UPC | 25577 | 4-16 |
| F20T12/WW/ECOUPC | 25577 | 4-23 |
| F20T12CWECOCVGUPC | 80984 | 4-24 |
| F20T12KB/ECO/RVL | 79042 | 4-23 |
| F212D/827/4P | 21303 | 5-9 |
| F212D/835/4P | 22178 | 5-9 |
| F21T5/830/WM/ECO | 71637 | 4-8 |
| F21T5/835/WM/ECO | 71638 | 4-8 |
| F21T5/841/WM/ECO | 71639 | 4-8 |
| F21T5/850/WM/ECO | 71640 | 4-8 |

Index (cont.)

| Description | Order Code | Page Number |
|-----------------------|------------|-------------|
| F21T5/865/WM/ECO | 71641 | 4-8 |
| F21W/T5/830/ECO | 46677 | 4-8 |
| F21W/T5/835/ECO | 46684 | 4-8 |
| F21W/T5/841/ECO | 46687 | 4-8 |
| F21W/T5/850/ECO | 46688 | 4-8 |
| F21W/T5/865/ECO | 46689 | 4-8 |
| F22T8/D/4 | 10257 | 4-20 |
| F24T12/CW | 10691 | 4-14 |
| F24T12/CW/HO | 10261 | 4-15 |
| F24T12/D/HO | 10275 | 4-15 |
| F24T8/CW/4 6PK | 17705 | 4-20 |
| F24W/T5/830/ECO | 46699 | 4-8 |
| F24W/T5/830/ECO/CVG | 71000 | 4-17 |
| F24W/T5/835/ECO | 46700 | 4-8 |
| F24W/T5/835/ECO/CVG | 70998 | 4-17 |
| F24W/T5/841/ECO | 46701 | 4-8 |
| F24W/T5/841/ECO/CVG | 70997 | 4-17 |
| F24W/T5/850/ECO | 46702 | 4-8 |
| F24W/T5/850/ECO/CVG | 70999 | 4-17 |
| F24W/T5/865/ECO | 46703 | 4-8 |
| F25T12/CW/33 6PK | 38201 | 4-20 |
| F25T12/CWRSM/ECO | 80065 | 4-13 |
| F25T12/D/28 | 10286 | 4-20 |
| F25T12/D/33 | 10299 | 4-20 |
| F25T12/SP30/RS/WM/ECO | 80080 | 4-13 |
| F25T12/SP35/RS/WM/ECO | 80081 | 4-13 |
| F25T12/WW/33 | 10293 | 4-20 |
| F25T12/WW/RS/WM/ECO | 80077 | 4-13 |
| F25T12/CW/28 6PK | 10282 | 4-20 |
| F25T8/GO/ECOCVG | 25783 | 4-21 |
| F25T8/SP30/ECO | 45750 | 4-10 |
| F25T8/SP35/ECO | 45754 | 4-10 |
| F25T8/SP41/ECO | 45756 | 4-10 |
| F25T8/SPX30/ECO | 45753 | 4-10 |
| F25T8/SPX35/ECO | 45755 | 4-10 |
| F25T8/SPX41/ECO | 45757 | 4-10 |
| F25T8/SXL/SPX35/ECO | | 4-10 |
| F25T8/SXL/SPX41/ECO | | 4-10 |
| F25T8/SXL/SPX50/ECO | | 4-10 |
| F25T8/XL/SP30/ECO | 15486 | 4-10 |
| F25T8/XL/SP35/ECO | 15487 | 4-10 |
| F25T8/XL/SP41/ECO | 15488 | 4-10 |
| F25T8/XL/SPX30/ECO | 15489 | 4-10 |
| F25T8/XL/SPX30/WM/ECO | 72136 | 4-11 |
| F25T8/XL/SPX35/ECO | 15490 | 4-10 |
| F25T8/XL/SPX35/WM/ECO | 72137 | 4-11 |
| F25T8/XL/SPX41/ECO | 15491 | 4-10 |
| F25T8/XL/SPX41/WM/ECO | 72138 | 4-11 |
| F25T8/XL/SPX50/ECO | 10416 | 4-10 |
| F25T8/XL/SPX50/WM/ECO | 72139 | 4-11 |
| F25T8/XL/SPX65/ECO | 16314 | 4-10 |
| F25T8SP30ECOCVG | 15978 | 4-18 |
| F25T8SP35ECOCVG | 15981 | 4-18 |
| F25T8SP41ECOCVG | 15984 | 4-18 |
| F25T8SPX30ECOCVG | 15989 | 4-18 |
| F25T8SPX35ECOCVG | 15990 | 4-18 |
| F25T8SPX41ECOCVG | 15991 | 4-18 |
| F25T8XLSPX50ECOCVG | 28887 | 4-18 |
| F26DBX/827/ECO | 97606 | 5-8 |
| F26DBX/827/ECO4P | 97610 | 5-8 |
| F26DBX/830/ECO | 97607 | 5-8 |
| F26DBX/830/ECO4P | 97611 | 5-8 |
| F26DBX/835/ECO | 97608 | 5-8 |
| F26DBX/835/ECO4P | 97612 | 5-8 |
| F26DBX/841/ECO | 97609 | 5-8 |

| Description | Order Code | Page Number |
|----------------------|------------|-------------|
| F26DBX/841/ECO4P | 97613 | 5-8 |
| F26DBX/E/827/ECO | 97602 | 5-8 |
| F26DBX/E/835/ECO | 97604 | 5-8 |
| F26T8/CW/4 | 10702 | 4-20 |
| F26T8/CW/4 6PK | 38199 | 4-20 |
| F26T8/SPX30/UECO | 62169 | 4-12 |
| F26T8/SPX35/UECO | 62170 | 4-12 |
| F26T8/SPX41/UECO | 62171 | 4-12 |
| F26T8X/827/A/ECO | 97614 | 5-8 |
| F26T8X/830/A/ECO | 97615 | 5-8 |
| F26T8X/835/A/ECO | 97616 | 5-8 |
| F26T8X/841/A/ECO | 97617 | 5-8 |
| F26T8X827/4P/ECO | 97618 | 5-8 |
| F27BSPX30RS10PK | 16944 | 5-7 |
| F27BSPX35RS10PK | 16948 | 5-7 |
| F27BSPX41RS10PK | 16951 | 5-7 |
| F282D/827/4P | 22172 | 5-9 |
| F282D/835/4P | 22180 | 5-9 |
| F28T5/830/WM/ECO | 71642 | 4-8 |
| F28T5/835/WM/ECO | 71643 | 4-8 |
| F28T5/841/WM/ECO | 71644 | 4-8 |
| F28T5/850/WM/ECO | 71645 | 4-9 |
| F28T5/865/WM/ECO | 71646 | 4-9 |
| F28T5/GO/CVG | 25768 | 4-21 |
| F28T8/CW/4 6PK | 17704 | 4-20 |
| F28T8/SPX30/UECO | 67394 | 4-12 |
| F28T8/SPX35/UECO | 67395 | 4-12 |
| F28T8/SPX41/UECO | 67396 | 4-12 |
| F28T8/SXL/SPX35/ECO | 93902 | 4-11 |
| F28T8/SXL/SPX41/ECO | 93903 | 4-11 |
| F28T8/SXL/SPX50/ECO | 93904 | 4-11 |
| F28T8/XL/SP35/ECO | 66471 | 4-11 |
| F28T8/XL/SP41/ECO | 66472 | 4-11 |
| F28T8/XL/SP50/ECO | 66473 | 4-11 |
| F28T8/XL/SPX30/ECO | 72863 | 4-11 |
| F28T8/XL/SPX35/ECO | 72864 | 4-11 |
| F28T8/XL/SPX41/ECO | 72866 | 4-11 |
| F28T8/XL/SPX50/ECO | 72867 | 4-11 |
| F28T8/XL/SPX65/ECO | 66346 | 4-11 |
| F28T8/XLSPX30ECO/CVG | 73292 | 4-18 |
| F28T8/XLSPX35ECO/CVG | 73293 | 4-18 |
| F28T8/XLSPX41ECO/CVG | 73294 | 4-18 |
| F28T8/XLSPX50ECO/CVG | 73295 | 4-18 |
| F28W/T5/830/ECO | 46704 | 4-8 |
| F28W/T5/830/ECO/CVG | 81546 | 4-17 |
| F28W/T5/835/ECO | 46705 | 4-8 |
| F28W/T5/835/ECO/CVG | 81547 | 4-17 |
| F28W/T5/841/ECO | 46706 | 4-8 |
| F28W/T5/841/ECO/CVG | 81548 | 4-17 |
| F28W/T5/850/ECO | 46707 | 4-8 |
| F28W/T5/850/ECO/CVG | 81549 | 4-17 |
| F28W/T5/865/ECO | 46708 | 4-8 |
| F28W/T5/865/ECO/CVG | 81550 | 4-17 |
| F28WTS/830/HL/ECO | 71652 | 4-9 |
| F28WTS/835/HL/ECO | 71653 | 4-9 |
| F28WTS/841/HL/ECO | 71654 | 4-9 |
| F28WTS/850/HL/ECO | 71655 | 4-9 |
| F28WTS/865/HL/ECO | 71656 | 4-9 |
| F29T8/SPX30/UECO | 62172 | 4-12 |
| F29T8/SPX35/UECO | 62173 | 4-12 |
| F29T8/SPX41/UECO | 62174 | 4-12 |
| F30T12/C50/RS/ECO | 80083 | 4-13 |
| F30T12/CW | 10355 | 4-20 |
| F30T12/CW/HO | 33707 | 4-15 |
| F30T12/CW/RS/ECO | 80084 | 4-13 |

| Description | Order Code | Page Number |
|-----------------------|------------|-------------|
| F30T12/CW/RS/ECO 6PK | 80085 | 4-13 |
| F30T12/D/RS/ECO | 80086 | 4-13 |
| F30T12/RS/KB/ECO | 77119 | 4-22 |
| F30T12/SP35/RS/ECO | 80087 | 4-13 |
| F30T12/SP41/RS/ECO | 80088 | 4-13 |
| F30T12/SPX30/RS/ECO | 80089 | 4-13 |
| F30T12/SPX35/RS/ECO | 80090 | 4-13 |
| F30T12/WW/RS/ECO | 80091 | 4-13 |
| F30T12CWRSECOCVG | 80486 | 4-19 |
| F30T8/CW 6PK | 10316 | 4-13 |
| F30T8/CW/4 | 10349 | 4-20 |
| F30T8/D | 10310 | 4-13 |
| F30T8/KB 6PK | 22747 | 4-13 |
| F30T8/KB 6PK | 22747 | 4-23 |
| F31T8/SPX30/UECO | 72117 | 4-12 |
| F31T8/SPX35/UECO | 72118 | 4-12 |
| F31T8/SPX41/UECO | 72119 | 4-12 |
| F32T8/25W/SPP35/ECO | 66467 | 4-11 |
| F32T8/25W/SPP41/ECO | 66468 | 4-11 |
| F32T8/25W/SPP50/ECO | 66469 | 4-11 |
| F32T8/25W/SPX30/ECO | 72128 | 4-11 |
| F32T8/25W/SPX35/ECO | 72129 | 4-11 |
| F32T8/25W/SPX41/ECO | 72130 | 4-11 |
| F32T8/25W/SPX50/ECO | 72131 | 4-11 |
| F32T8/25WSPX41ECOCVG | 72814 | 4-18 |
| F32T8/25WSPX50ECOCVG | 72815 | 4-18 |
| F32T8/AS/2PK-24 | 66830 | 4-22 |
| F32T8/AS/ECO/2P | 66835 | 4-22 |
| F32T8/B/65ECOCVG2 | 94847 | 4-21 |
| F32T8/C/50/ECO | 66343 | 4-10 |
| F32T8/C75/ECO | 66344 | 4-10 |
| F32T8/CL/2PK-24 | 66832 | 4-22 |
| F32T8/G/89ECOCVG2 | 94849 | 4-21 |
| F32T8/GB/2PK-24 | 66833 | 4-22 |
| F32T8/GB/ECO/2P | 66828 | 4-22 |
| F32T8/GB/ECO/UPEC | 66826 | 4-22 |
| F32T8/GO/ECOCVG | 25784 | 4-21 |
| F32T8/KBP/2PK-24 | 66834 | 4-22 |
| F32T8/KBP/ECO/2P | 66829 | 4-22 |
| F32T8/R/24ECOCVG2 | 94850 | 4-21 |
| F32T8/SP30/UECO | 28145 | 4-12 |
| F32T8/SP35/UECO | 28149 | 4-12 |
| F32T8/SP41/UECO | 28152 | 4-12 |
| F32T8/SPP30/ECO | 66347 | 4-10 |
| F32T8/SPP35/ECO | 66348 | 4-10 |
| F32T8/SPP41/ECO | 66349 | 4-10 |
| F32T8/SPP50/ECO | 66350 | 4-10 |
| F32T8/SPP65/ECO | 66351 | 4-10 |
| F32T8/SPX30/ECO2 | 68850 | 4-10 |
| F32T8/SPX30/UE/2 | 68920 | 4-12 |
| F32T8/SPX30/UE/ECO | 72111 | 4-12 |
| F32T8/SPX30/UE/WM/ECO | 72114 | 4-12 |
| F32T8/SPX35/ECO2 | 68851 | 4-10 |
| F32T8/SPX35/UE/2 | 68921 | 4-12 |
| F32T8/SPX35/UE/ECO | 72112 | 4-12 |
| F32T8/SPX35/UE/WM/ECO | 72115 | 4-12 |
| F32T8/SPX41/ECO2 | 68852 | 4-10 |
| F32T8/SPX41/UE/2 | 68922 | 4-12 |
| F32T8/SPX41/UE/ECO | 72113 | 4-12 |
| F32T8/SPX41/UE/WM/ECO | 72116 | 4-12 |
| F32T8/SPX50/ECO2 | 68853 | 4-10 |
| F32T8/SPX50/UE/2 | 68923 | 4-12 |
| F32T8/SPX65/ECO2 | 66342 | 4-10 |
| F32T8/SXL/SPX30/ECO | 73093 | 4-10 |
| F32T8/SXL/SPX35/ECO | 73094 | 4-10 |

| Description | Order Code | Page Number |
|------------------------|------------|-------------|
| F32T8/SXL/SPX41/ECO | 73095 | 4-10 |
| F32T8/SXL/SPX50/ECO | 73096 | 4-10 |
| F32T8/UT/2P-24 | 66836 | 4-22 |
| F32T8/UT/ECO/2P | 66831 | 4-22 |
| F32T8/UT/ECO/UPC | 66827 | 4-22 |
| F32T8/WS/ECO/2P | 66837 | 4-22 |
| F32T8/XL/SPX30/ECO2 | 68854 | 4-10 |
| F32T8/XL/SPX30/HL/ECO | 10327 | 4-11 |
| F32T8/XL/SPX35/ECO2 | 68855 | 4-10 |
| F32T8/XL/SPX35/HL/ECO | 10326 | 4-11 |
| F32T8/XL/SPX41/ECO2 | 68856 | 4-10 |
| F32T8/XL/SPX41/HL/ECO | 10322 | 4-11 |
| F32T8/XL/SPX50/ECO2 | 68857 | 4-10 |
| F32T8/XL/SPX50/HL/ECO | 42556 | 4-11 |
| F32T8/XL/SPX65/ECO2 | 68858 | 4-10 |
| F32T825W/SXL/SPX35/ECO | 93905 | 4-11 |
| F32T825W/SXL/SPX41/ECO | 93906 | 4-11 |
| F32T825W/SXL/SPX50/ECO | 93907 | 4-11 |
| F32T85PP30ECO/COVG | 94838 | 4-18 |
| F32T85PP35ECO/COVG | 94839 | 4-18 |
| F32T85PP41ECO/COVG | 94861 | 4-18 |
| F32T85PP50ECO/COVG | 94842 | 4-18 |
| F32T85SPX30ECO/COVG | 41125 | 4-18 |
| F32T85SPX35ECO/COVG | 41126 | 4-18 |
| F32T85SPX41ECO/COVG | 41127 | 4-18 |
| F32T85SPX50ECO/COVG | 15971 | 4-18 |
| F32T85SPX65ECO/COVG | 94843 | 4-18 |
| F32T8XSL/SPX30ECO/COVG | 15972 | 4-18 |
| F32T8XSL/SPX35ECO/COVG | 15973 | 4-18 |
| F32T8XSL/SPX35H/COVG | 00268 | 4-18 |
| F32T8XSL/SPX41ECO/COVG | 18369 | 4-18 |
| F32T8XSL/SPX41H/COVG | 00269 | 4-18 |
| F32T8XSL/SPX50ECO/COVG | 23746 | 4-18 |
| F32T8XSL/SPX50H/COVG | 80497 | 4-18 |
| F32TBX/827/A/ECO | 97629 | 5-9 |
| F32TBX/830/A/ECO | 97630 | 5-9 |
| F32TBX/835/A/ECO | 97631 | 5-9 |
| F32TBX/841/A/ECO | 97632 | 5-9 |
| F32TBX/850/A/ECO | 65337 | 5-9 |
| F34C50/RS/WM/ECO | 80092 | 4-13 |
| F34CW/C/WM/ECO | 66649 | 4-13 |
| F34CX41/WM/ECO | 66474 | 4-13 |
| F34CX41/WM/ECO/COVG | 26044 | 4-24 |
| F34DX/RS/WM/ECO | 80093 | 4-13 |
| F35/CW/C/U3/WM | 68050 | 4-14 |
| F35/CW/C/U6/WM | 68051 | 4-14 |
| F35/CX41/U3/WM | 66854 | 4-14 |
| F35/CX41/U6/WM | 66855 | 4-14 |
| F35/CX41/U6/WM/UPC | 66851 | 4-14 |
| F35/CX41/U6/WM/UPC | 66851 | 4-22 |
| F35T5/830/WM/ECO | 71647 | 4-9 |
| F35T5/835/WM/ECO | 71648 | 4-9 |
| F35T5/841/WM/ECO | 71649 | 4-9 |
| F35T5/850/WM/ECO | 71650 | 4-9 |
| F35T5/865/WM/ECO | 71651 | 4-9 |
| F35W/T5/830/ECO | 46724 | 4-8 |
| F35W/T5/835/ECO | 46727 | 4-8 |
| F35W/T5/841/ECO | 46735 | 4-8 |
| F35W/T5/850/ECO | 46742 | 4-8 |
| F35W/T5/865/ECO | 46743 | 4-8 |
| F36T12/CW | 10709 | 4-14 |
| F36T12/CW/HO | 10374 | 4-15 |
| F36T12/D/HO | 10380 | 4-15 |
| F36T12/SGN/HO | 10388 | 4-15 |
| F36WT8/835/XLR | 19991 | 4-13 |

| Description | Order Code | Page Number |
|----------------------|------------|-------------|
| F36WT8/841/XLR | 16856 | 4-13 |
| F382D/827/4P | 21305 | 5-9 |
| F382D/835/4P | 22181 | 5-9 |
| F39BXPX30RS10PK | 16538 | 5-7 |
| F39BXPX35RS10PK | 15867 | 5-7 |
| F39BXPX41RS10PK | 16952 | 5-7 |
| F39W/T5/830/ECO | 46744 | 4-8 |
| F39W/T5/830/ECO/COVG | 70995 | 4-17 |
| F39W/T5/835/ECO | 46745 | 4-8 |
| F39W/T5/835/ECO/COVG | 70994 | 4-17 |
| F39W/T5/841/ECO | 46746 | 4-8 |
| F39W/T5/841/ECO/COVG | 70993 | 4-17 |
| F39W/T5/850/ECO | 46747 | 4-8 |
| F39W/T5/865/ECO | 46748 | 4-8 |
| F39W/T5/865/ECO/COVG | 70990 | 4-17 |
| F40/25B8X30/IS/WM | 75399 | 5-7 |
| F40/25B8X35/IS/WM | 75400 | 5-7 |
| F40/25B8X40/IS/WM | 75401 | 5-7 |
| F40/25B8X50/IS/WM | 75402 | 5-7 |
| F40/30BX/SPX35 | 16648 | 5-7 |
| F40/30BX/SPX41 | 16954 | 5-7 |
| F40/30BX/SPX50RS | 10490 | 5-7 |
| F40/30BX/SPX30-36 | 20444 | 5-7 |
| F40/30BX/SPX35-36 | 20446 | 5-7 |
| F40/30BX/SPX41-36 | 20447 | 5-7 |
| F40/C50/ECO/COVG | 80496 | 4-19 |
| F40/CL/ECO/2P | 66653 | 4-22 |
| F40/GB/ECO/2P | 66652 | 4-22 |
| F40/GO/COVG | 25850 | 4-21 |
| F40/KBP/ECO/2P | 66655 | 4-22 |
| F40/LR/ECO/2P | 66654 | 4-22 |
| F40/SUN/ECO/6PK | 12224 | 4-22 |
| F40/UT/ECO/2P | 66651 | 4-22 |
| F4030BX/SPX30 10P | 16953 | 5-7 |
| F40B 6PK | 10514 | 4-21 |
| F40BL 6PK | 10526 | 4-20 |
| F40BL 6PK | 10526 | 4-23 |
| F40BL/U/3 | 40537 | 4-20 |
| F40BLB 6PK | 10531 | 4-20 |
| F40BLB 6PK | 10531 | 4-23 |
| F40C50/ECO | 80096 | 4-14 |
| F40C50/ECO/UPC | 25399 | 4-14 |
| F40C50/ECO/UPC | 25399 | 4-22 |
| F40C75 30PK | 13795 | 4-14 |
| F40CW/EX 30PK | 14656 | 4-22 |
| F40CW/U/6/EX | 14496 | 4-22 |
| F40D/EX | 14488 | 4-22 |
| F40D/U/6/EX | 14498 | 4-22 |
| F40DX/ECO | 80097 | 4-14 |
| F40DX/ECO/COVG | 80994 | 4-19 |
| F40G 6PK | 10517 | 4-21 |
| F40N/ECO | 80098 | 4-14 |
| F40PL/AQ/ECO | 49893 | 4-22 |
| F40PL/AQ/ECO | 49893 | 4-24 |
| F40SUN/ECO 6PK | 12224 | 4-14 |
| F40T17/CW/IS | 10575 | 4-17 |
| F40T8/SPX30 | 22660 | 4-12 |
| F40T8/SPX35 | 22661 | 4-12 |
| F40T8/SPX35/COVG | 41131 | 4-18 |
| F40T8/SPX41 | 22662 | 4-12 |
| F40T8/SPX41/COVG | 47351 | 4-18 |
| F40UT/ECO/UPC | 66650 | 4-14 |
| F40UT/ECO/UPC | 66650 | 4-22 |
| F42T12/CW | 10735 | 4-14 |
| F42T12/CW/HO | 10559 | 4-15 |

| Description | Order Code | Page Number |
|-----------------------|------------|-------------|
| F42T12/D/HO | 10560 | 4-15 |
| F42T12/SGN/HO | 10562 | 4-15 |
| F42T6/CW | 10720 | 4-16 |
| F42T6/SP35 | 12221 | 4-16 |
| F42T6/WW | 10721 | 4-16 |
| F42TBX/827/A/ECO | 97633 | 5-9 |
| F42TBX/830/A/ECO | 97634 | 5-9 |
| F42TBX/835/A/ECO | 97635 | 5-9 |
| F42TBX/841/A/ECO | 97636 | 5-9 |
| F42TBX/850/A/ECO | 65338 | 5-9 |
| F48T10/CW | 10742 | 4-20 |
| F48T12/CW | 10748 | 4-14 |
| F48T12/CW/1500 | 10751 | 4-16 |
| F48T12/CW/1500/0 | 34206 | 4-20 |
| F48T12/CW/COVG | 40127 | 4-19 |
| F48T12/CW/HO | 10773 | 4-15 |
| F48T12/CW/HO/COVG | 40129 | 4-19 |
| F48T12/CW/HO/UPC | 27313 | 4-15 |
| F48T12/CW/HO/UPC | 27313 | 4-23 |
| F48T12/CW/UPC 6PK | 20461 | 4-14 |
| F48T12/CW/WM | 44967 | 4-14 |
| F48T12/D/HO | 10778 | 4-15 |
| F48T12/LW/HO/WM | 11179 | 4-15 |
| F48T12/SGN/HO | 10573 | 4-15 |
| F48T12/SP30/HO | 15359 | 4-15 |
| F48T12/SP35 | 15262 | 4-14 |
| F48T12/SP35/HO | 15360 | 4-15 |
| F48T12/SP35/HO/WM | 15342 | 4-15 |
| F48T12/SP35/WM | 14319 | 4-14 |
| F48T12/SP41/HO | 15361 | 4-15 |
| F48T12/SP41/WM | 13048 | 4-14 |
| F48T12/SPX30 | 15088 | 4-14 |
| F48T12/SPX35 | 15116 | 4-14 |
| F48T12/SPX35/COVG | 41144 | 4-19 |
| F48T12/SPX35/HO | 15115 | 4-15 |
| F48T12/CW/UPC 6PK | 20461 | 4-22 |
| F48T12/CW/VHO/CT | 46195 | 4-20 |
| F4T5/BLB | 10019 | 4-20 |
| F4T5/CW | 10004 | 4-9 |
| F4T5/CW/CB | 15983 | 4-23 |
| F4T5/CW/CB | 15983 | 4-9 |
| F4T5/WW/CB | 29089 | 4-9 |
| F50BXPX30RS10PK | 20898 | 5-7 |
| F50BXPX35RS10PK | 20899 | 5-7 |
| F50BXPX41RS10PK | 20900 | 5-7 |
| F54T5/47W/830/ECO | 62020 | 4-9 |
| F54T5/47W/835/ECO | 62021 | 4-9 |
| F54T5/47W/841/ECO | 62022 | 4-9 |
| F54T5/47W/841/COVG | 65106 | 4-17 |
| F54T5/47W/850/ECO | 62023 | 4-9 |
| F54T5/47W/850/COVG | 65107 | 4-17 |
| F54T5/47W/865/ECO | 62024 | 4-9 |
| F54T5/830/HO/ECO/COVG | 48433 | 4-17 |
| F54T5/830/WM/ECO | 71627 | 4-9 |
| F54T5/835/HO/ECO/COVG | 48436 | 4-17 |
| F54T5/835/WM/ECO | 71628 | 4-9 |
| F54T5/835/WM/ECO/COVG | 72986 | 4-17 |
| F54T5/841/CT | 81522 | 4-19 |
| F54T5/841/HO/ECO/COVG | 48458 | 4-17 |
| F54T5/841/WM/ECO | 71629 | 4-9 |
| F54T5/841/WM/ECO/COVG | 72987 | 4-17 |
| F54T5/850/HO/ECO/COVG | 80311 | 4-17 |
| F54T5/850/WM/ECO | 71630 | 4-9 |
| F54T5/850/WM/ECO/COVG | 72988 | 4-18 |
| F54T5/865/HO/ECO/COVG | 48469 | 4-17 |

Index (cont.)

| Description | Order Code | Page Number |
|--------------------|------------|-------------|
| F54T5/865/WM/ECO | 71631 | 4-9 |
| F54T5/XL/830/ECO | 68836 | 4-8 |
| F54T5/XL/835/ECO | 68837 | 4-8 |
| F54T5/XL/841/ECO | 68838 | 4-8 |
| F54T5/XL/850/ECO | 68839 | 4-8 |
| F54T5/XL/865/ECO | 68840 | 4-8 |
| F54W/T5/830/ECO | 46759 | 4-8 |
| F54W/T5/835/ECO | 46760 | 4-8 |
| F54W/T5/841/ECO | 46761 | 4-8 |
| F54W/T5/850/ECO | 46762 | 4-8 |
| F54W/T5/865/ECO | 46763 | 4-8 |
| F552D/830A/T4P/B | 36358 | 5-9 |
| F55BX/830 | 31951 | 5-7 |
| F55BX/835 | 31952 | 5-7 |
| F55BX/840 | 31953 | 5-7 |
| F55BX/CINPLUS/32 | 41903 | 5-14 |
| F55BX/CINPLUS/32 | 41903 | 7-10 |
| F55BX/CINPLUS/55 | 41911 | 5-14 |
| F55BX/CINPLUS/56 | 41911 | 7-10 |
| F55BX/STUDIOBIAX32 | 41869 | 7-10 |
| F55BX/STUDIOBIAX56 | 41873 | 7-10 |
| F55BX/STUDIOBX56 | 41873 | 5-14 |
| F57QB/841/A/ECO | 48864 | 5-9 |
| F57QB/827A4P/EOL | 48861 | 5-9 |
| F57QB/835A4P/EOL | 48863 | 5-9 |
| F57QB/850A4P/EOL | 93404 | 5-9 |
| F58T8/835/CT | 16148 | 4-19 |
| F58T8/835/PLY/XLR | 40120 | 4-13 |
| F58T8/841/CT | 23752 | 4-19 |
| F58T8/841/PLY/XLR | 40081 | 4-13 |
| F58X/827/ECO | 97551 | 5-7 |
| F58X/841/ECO | 97553 | 5-7 |
| F60T10/CW | 39157 | 4-20 |
| F60T10/CW 6PK | 13002 | 4-20 |
| F60T10/CW-CT | 46197 | 4-20 |
| F60T10/SP30 | 17135 | 4-20 |
| F60T12/CW 15PK | 23073 | 4-14 |
| F60T12/CW/HO 15PK | 23075 | 4-15 |
| F60T12/CW/HO/CVG | 41148 | 4-19 |
| F60T12/D 15PK | 23076 | 4-14 |
| F60T12/D/HO 15PK | 23077 | 4-15 |
| F60T12/SGN/HO 15PK | 23081 | 4-15 |
| F60T12CW/CVG | 41147 | 4-19 |
| F64T12/CW/HO 15PK | 23083 | 4-15 |
| F64T12/CW15PK | 23082 | 4-14 |
| F64T12/D 15PK | 23085 | 4-14 |
| F64T12/D/HO 15PK | 23087 | 4-15 |
| F64T12/SGN/HO 15PK | 23089 | 4-15 |
| F64T6/CW | 10805 | 4-16 |
| F64T6/WW | 10807 | 4-16 |
| F6T5/CW | 10032 | 4-9 |
| F6T5/CW/CB | 15986 | 4-23 |
| F6T5/CW/CB | 15986 | 4-9 |
| F6T5/D | 10028 | 4-9 |
| F6T5/XL/CW | 90062 | 4-9 |
| F70QB/841/A/ECO | 48868 | 5-9 |
| F70QB/827A4P/EOL | 48865 | 5-9 |
| F70QB/830A4P/EOL | 48866 | 5-9 |
| F70QB/835A4P/EOL | 48867 | 5-9 |
| F70QB/850A4P/EOL | 93406 | 5-9 |
| F70T8/835/CT | 16149 | 4-19 |
| F70T8/835/PLY/XLR | 62572 | 4-13 |
| F70T8/840/PLY/XLR | 62573 | 4-13 |
| F70T8/841/CT | 23754 | 4-19 |
| F72T10/CW 15PK | 13776 | 4-20 |

| Description | Order Code | Page Number |
|------------------------|------------|-------------|
| F72T10/CW-CT | 46198 | 4-20 |
| F72T12/CW 15PK | 13743 | 4-15 |
| F72T12/CW/1500 15PK | 13760 | 4-16 |
| F72T12/CW/HO 15PK | 13697 | 4-16 |
| F72T12/CW/HO-CT | 46199 | 4-20 |
| F72T12/CW/UPC 10PK | 12525 | 4-15 |
| F72T12/D 15PK | 13748 | 4-15 |
| F72T12/D/HO 15PK | 13699 | 4-16 |
| F72T12/GO/CVG | 25854 | 4-21 |
| F72T12/N/HO | 12527 | 4-16 |
| F72T12/SGN/HO 15PK | 13701 | 4-16 |
| F72T12/SP30/HO 15PK | 15343 | 4-16 |
| F72T12/SP35 15PK | 15286 | 4-15 |
| F72T12/SP35/HO 15PK | 15347 | 4-16 |
| F72T12/SP41 | 15097 | 4-15 |
| F72T12/SP41/HO 15PK | 15348 | 4-16 |
| F72T12/SPX30 15PK | 15117 | 4-15 |
| F72T12/SPX30/HO 15PK | 15137 | 4-16 |
| F72T12/SPX35 15PK | 15098 | 4-15 |
| F72T12/SPX35/CVG | 41153 | 4-19 |
| F72T12/SPX35/HO 15PK | 15351 | 4-16 |
| F72T12/SP41/HO 15PK | 15348 | 4-16 |
| F72T12/SPX30 15PK | 15117 | 4-15 |
| F72T12/SPX30/HO 15PK | 15137 | 4-16 |
| F72T12/SPX35 15PK | 15098 | 4-15 |
| F72T12/SPX35/CVG | 41153 | 4-19 |
| F72T12/SPX35/HO 15PK | 15351 | 4-16 |
| F72T12/WW/HO 15PK | 13702 | 4-16 |
| F72T12/CW/HO/CVG | 40811 | 4-19 |
| F72T12CW/VHO/CT | 46200 | 4-20 |
| F72T12CW1500/0 | 13762 | 4-20 |
| F72T12SP35HO/CVG | 46207 | 4-19 |
| F72T12SPX30HOCVG | 41152 | 4-19 |
| F72T12SPX35HOCVG | 41154 | 4-19 |
| F72T8/CW | 10829 | 4-12 |
| F72T8/WW 6PK | 10835 | 4-12 |
| F78X/827/ECO | 97554 | 5-7 |
| F78X/835/ECO | 97556 | 5-7 |
| F78X/841/ECO | 97557 | 5-7 |
| F80W/T5/830/ECO | 46802 | 4-8 |
| F80W/T5/835/ECO | 46803 | 4-8 |
| F80W/T5/841/ECO | 46804 | 4-8 |
| F80W/T5/850/ECO | 46805 | 4-8 |
| F80W/T5/865/ECO | 46806 | 4-8 |
| F84T12/CW 15PK | 13764 | 4-15 |
| F84T12/CW/HO 15PK | 13766 | 4-16 |
| F84T12/D/HO 15PK | 13767 | 4-16 |
| F84T12/SGN/HO 15PK | 13768 | 4-16 |
| F8T5/BLB | 10077 | 4-20 |
| F8T5/CW | 10059 | 4-9 |
| F8T5/CW/CB | 15987 | 4-23 |
| F8T5/CW/CB | 15987 | 4-9 |
| F8T5/CW/CVG | 41107 | 4-17 |
| F8T5/D | 10055 | 4-9 |
| F8T5/KB/RVL/CB | 67419 | 4-23 |
| F8T5/WW | 10064 | 4-9 |
| F8T5/WW/CB | 25425 | 4-23 |
| F8T5/WW/CB | 25425 | 4-9 |
| F8T5/XL/CW | 90063 | 4-9 |
| F90T17/CW | 10643 | 4-17 |
| F90T17/CW/WM | 43443 | 4-17 |
| F96PG17/CW | 11009 | 4-17 |
| F96PG17/CW/WM | 42666 | 4-17 |
| F96PG17/D | 11018 | 4-17 |
| F96T12/C50 | 13752 | 4-14 |
| F96T12/C50/HO 15PK | 13707 | 4-16 |
| F96T12/C50/WM 15PK | 13756 | 4-14 |
| F96T12/CW/1500 15PK | 13781 | 4-16 |
| F96T12/CW/1500/0 | 13788 | 4-20 |
| F96T12/CW/1500/WM 15PK | 13789 | 4-16 |
| F96T12/CW/C/WM | 68052 | 4-14 |

| Description | Order Code | Page Number |
|--------------------------|------------|-------------|
| F96T12/CW/HO/CT | 11918 | 4-20 |
| F96T12/D/1500 15PK | 13783 | 4-16 |
| F96T12/D/EX 15PK | 12543 | 4-22 |
| F96T12/D/HO/CT | 11919 | 4-20 |
| F96T12/DX | 14652 | 4-14 |
| F96T12/DX/HO | 14653 | 4-16 |
| F96T12/DX/HO/CVG | 46430 | 4-19 |
| F96T12/GO/CVG | 25852 | 4-21 |
| F96T12/GO/HO/CVG | 25853 | 4-21 |
| F96T12/HL30/HO/WM | 66861 | 4-16 |
| F96T12/HL41/HO/WM | 66862 | 4-16 |
| F96T12/LW/HO/WM | 13720 | 4-16 |
| F96T12/N 15PK | 13725 | 4-14 |
| F96T12/SP41/WM/ECO | 27235 | 4-14 |
| F96T12/XL/HL35/WM/UPC | 66856 | 4-14 |
| F96T12/XL/HL35/WM/UPC | 66856 | 4-22 |
| F96T12/XL/HL41/HO/WM/UPC | 66852 | 4-14 |
| F96T12/XL/HL41/WM/UPC | 66852 | 4-22 |
| F96T12CW/EX 15PK | 12541 | 4-22 |
| F96T12CW/HO/EX | 12540 | 4-22 |
| F96T12CW/VHO-CT | 46202 | 4-20 |
| F96T12D/HO/EX15 | 12542 | 4-22 |
| F96T12HL41HOCV | 26039 | 4-19 |
| F96T12XL/HL35/WM | 66857 | 4-14 |
| F96T12XL/HL41/WM | 66858 | 4-14 |
| F96T12XL/HL50/WM | 66859 | 4-14 |
| F96T12XL/HL65/WM | 66860 | 4-14 |
| F96T12XLHL41WMCV | 26038 | 4-19 |
| F96T8/49W/SP35 | 66894 | 4-11 |
| F96T8/49W/SP41 | 66895 | 4-11 |
| F96T8/49W/SPX30 | 79401 | 4-11 |
| F96T8/49W/SPX35 | 79402 | 4-11 |
| F96T8/49W/SPX41 | 79403 | 4-11 |
| F96T8/54W/SP35 | 66891 | 4-11 |
| F96T8/54W/SP41 | 66892 | 4-11 |
| F96T8/CW | 10912 | 4-12 |
| F96T8/SP30/HO | 12536 | 4-12 |
| F96T8/SP35/HO | 12537 | 4-12 |
| F96T8/SP35HO/CVG | 40107 | 4-19 |
| F96T8/SP41/HO | 12538 | 4-12 |
| F96T8/SP41HO/CVG | 40108 | 4-19 |
| F96T8/SPX35/HO | 12533 | 4-12 |
| F96T8/SPX41/HO | 12534 | 4-12 |
| F96T8/SPX50/HO | 12535 | 4-12 |
| F96T8/SPX50HO/CVG | 81563 | 4-19 |
| F96T8/SPX65/HO | 66897 | 4-12 |
| F96T8/XL/SP35/WMP | 47076 | 4-11 |
| F96T8/XL/SP41/WMP | 47103 | 4-11 |
| F96T8/XL/SP50/WMP | 66889 | 4-11 |
| F96T8/XL/SP65/WMP | 66890 | 4-11 |
| F96T8/XL/SP35 | 67969 | 4-11 |
| F96T8/XL/SP41 | 67970 | 4-11 |
| F96T8/XL/SP50 | 67971 | 4-11 |
| F96T8/XL/SPX30/2 | 68868 | 4-11 |
| F96T8/XL/SPX35/2 | 68869 | 4-11 |
| F96T8/XL/SPX41/2 | 68870 | 4-11 |
| F96T8/XL/SPX50/2 | 68871 | 4-11 |
| F96T8XL/SP35/CVG | 94859 | 4-18 |
| F96T8XL/SP41/CVG | 94860 | 4-18 |
| F96T8XL/SPX30/CVG | 94856 | 4-18 |
| F96T8XL/SPX30CVG | 40099 | 4-18 |
| F96T8XL/SPX35/CVG | 40105 | 4-18 |
| F96T8XL/SPX41/CVG | 40106 | 4-18 |
| F96T8XL/SPX50/CVG | 48205 | 4-18 |
| F98X/827/ECO | 97558 | 5-7 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| F9BX/835/ECO | 97560 | 5-7 |
| F9BX/841/ECO | 97561 | 5-7 |
| F9DBX23/827/ECO | 97576 | 5-8 |
| F9DBX23/841/ECO | 97575 | 5-8 |
| FAD-Q650T4/4CL | 30325 | 7-7 |
| FAM6Q20MR11NF/CD | 25197 | 2-10 |
| FAM6Q20MR16FLCCG | 21455 | 2-9 |
| FAM6Q20MR16NSCCG | 21456 | 2-9 |
| FAM6Q50MR16FLCCG | 21457 | 2-9 |
| FAM6Q50MR16NSCCG | 21458 | 2-9 |
| FAY-Q650PAR36/3D | 41668 | 7-8 |
| FBE-Q650PAR36/5D | 41669 | 7-8 |
| FBO-Q650PAR36/5 | 41671 | 7-8 |
| FBY-Q1000T5/4 | 30374 | 7-7 |
| FC12T9/CW | 33890 | 4-17 |
| FC12T9/CW | 33890 | 4-23 |
| FC12T9/D | 11039 | 4-17 |
| FC12T9/D | 11039 | 4-23 |
| FC12T9/KB | 11085 | 4-17 |
| FC12T9/KB | 11085 | 4-23 |
| FC16T9/CW | 33893 | 4-17 |
| FC16T9/CW | 33893 | 4-23 |
| FC16T9/D | 11052 | 4-17 |
| FC16T9/D | 11052 | 4-23 |
| FC6T9/CW | 42732 | 4-17 |
| FC6T9/CW | 42732 | 4-23 |
| FC8T9/CW | 33774 | 4-17 |
| FC8T9/CW | 33774 | 4-23 |
| FC8T9/D | 11026 | 4-17 |
| FC8T9/D | 11026 | 4-23 |
| FC8T9/KB | 11084 | 4-17 |
| FC8T9/KB | 11084 | 4-23 |
| FCM-Q1000T3/4CL | 23797 | 7-7 |
| FCR | 14876 | 9-6 |
| FCS | 13598 | 9-6 |
| FCW-Q650PAR36/6 | 41672 | 7-8 |
| FCX-Q650PAR36/7 | 41673 | 7-8 |
| FDB-Q1500T4/4CL | 23841 | 7-7 |
| FDG-Q500T3/4CL | 23735 | 7-7 |
| FDM-Q500T3/4 | 23734 | 7-7 |
| FDT | 35321 | 9-6 |
| FDV | 36878 | 9-6 |
| FEL-Q1000/4CL | 88625 | 7-7 |
| FER-Q1000T6/4CL | 33760 | 7-7 |
| FEY-Q2000T8/4CL | 88629 | 7-7 |
| FFN-Q1000PAR64/1 | 13233 | 7-8 |
| FFP-Q1000PAR64/2 | 13229 | 7-8 |
| FFR-Q1000PAR64/5 | 13228 | 7-8 |
| FFS-Q1000PAR64/6 | 13227 | 7-8 |
| FFT-Q1000T3/1CL | 33280 | 7-7 |
| FHM-Q1000T3/4 | 23792 | 7-7 |
| FLE10HT2/2/827 | 86241 | 5-11 |
| FLE10HT2/2/SW/CD | 85382 | 5-11 |
| FLE10HT2/2/SW2PK | 85389 | 5-11 |
| FLE10HT2/6H/CWCD | 72468 | 5-11 |
| FLE10HT2/6H/D/CD | 72471 | 5-11 |
| FLE10HT2D/XL/BX3 | 68518 | 5-11 |
| FLE10HT2SWXL/BX3 | 68504 | 5-11 |
| FLE10HT2SWXL/BX6 | 68510 | 5-11 |
| FLE10HT3/2/RVL/CD | 75405 | 5-10 |
| FLE10HT3/2/SW/CD | 49906 | 5-11 |
| FLE9HT3/2/SW/CD | | |
| FLE10HT3/2/XL | 80936 | 5-11 |
| FLE10HT3/2GU24CD | 76135 | 5-12 |
| FLE10HT3/2RVLBX2 | 67451 | 5-10 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| FLE10HT3/2RVLBX2 | 84249 | 5-10 |
| FLE10HT3/2RVLCD2 | 75409 | 5-10 |
| FLE10HT32SWCD2PK | 49907 | 5-11 |
| FLE9HT32SWCD2PK | | |
| FLE11/2/A17/D/3P | 78940 | 5-13 |
| FLE11/2/A17/D/CD | 78939 | 5-13 |
| FLE11/2/A17CB/3P | 78938 | 5-13 |
| FLE11/2/A17CB/CD | 78937 | 5-13 |
| FLE11/2/A17XL/CD | 47486 | 5-13 |
| FLE11/2/A17XL2PK | 49687 | 5-13 |
| FLE11/2/A19XL | 89622 | 5-13 |
| FLE11/2/G25/D/3P | 78947 | 5-14 |
| FLE11/2/G25/D/CD | 78946 | 5-14 |
| FLE11/2/G25XL | 89629 | 5-14 |
| FLE11/2/G25XL/CD | 47484 | 5-14 |
| FLE11/2/G25XL2PK | 89096 | 5-14 |
| FLE11/2/G25XL3PK | 85392 | 5-14 |
| FLE11/2/R20/D/CD | 78948 | 5-12 |
| FLE11/2/R20D/BX | 85279 | 5-12 |
| FLE11/2/R20SW/BX | 85278 | 5-12 |
| FLE11/2/R20XL/2P | 76131 | 5-12 |
| FLE11/2/R20XL/CD | 47477 | 5-12 |
| FLE11/2/R20XL827 | 80892 | 5-12 |
| FLE11/2A17CBD/CD | 78941 | 5-13 |
| FLE11/2R20XLSWCD | 24691 | 5-12 |
| FLE11/2TC14BUGCD | 49895 | 5-13 |
| FLE14/2TC16BUGCD | | |
| FLE11/2TC14SWCD | 49894 | 5-13 |
| FLE14/2TC16SW/CD | | |
| FLE11G25XLRVL/BX | 67464 | 5-10 |
| FLE11H8G25SW | 60310 | 5-10 |
| FLE11R20XLRVL/BX | 67463 | 5-10 |
| FLE11R20XLRVLTLP | 61354 | 5-10 |
| FLE13HT/3/2/827 | 42159 | 5-11 |
| FLE13HT2/2/827 | 86256 | 5-11 |
| FLE13HT2/2/SW2PK | 85390 | 5-11 |
| FLE13HT2/2/CAND2P | 75368 | 5-11 |
| FLE13HT2/6H/D/CD | 72472 | 5-11 |
| FLE13HT3/2/BL | 78957 | 5-14 |
| FLE13HT3/2/ORANGE | 78958 | 5-14 |
| FLE13HT3/2/RVL/CD | 75406 | 5-10 |
| FLE13HT3/2/SW/2P | 16459 | 5-11 |
| FLE13HT3/2/YELLOW | 78959 | 5-14 |
| FLE13HT3/2RVLBX2 | 67452 | 5-10 |
| FLE13HT3/2RVLBX4 | 62906 | 5-10 |
| FLE13HT3/2RVLCD2 | 75411 | 5-10 |
| FLE14/2/TC16/BUG | 47464 | 5-13 |
| FLE14/2/TC16SWCD | 85384 | 5-13 |
| FLE14/3/CACSSBX3 | 60296 | 5-13 |
| FLE14/3/CACSSWBX3 | 60300 | 5-13 |
| FLE14/3/CAMSSBX3 | 60294 | 5-13 |
| FLE14/3/CAMSSWBX3 | 60298 | 5-13 |
| FLE14HT3/2-PK4/6 | 65425 | 5-11 |
| FLE14HT3/2/827 | 94543 | 5-11 |
| FLE14HT3/2/841 | 94542 | 5-11 |
| FLE14HT3/2DBX2/6 | 64005 | 5-11 |
| FLE14HT3/2DM/BX | 66662 | 5-12 |
| FLE14HT3/41BX2HH | 67445 | 5-11 |
| FLE14HT3/DMRVLBX | 67465 | 5-10 |
| FLE15/2/A19XL | 89632 | 5-13 |
| FLE15/2/A21XL/CD | 47487 | 5-13 |
| FLE15/2/R30/D/CD | 78950 | 5-12 |
| FLE15/2/R30/SWCD | 20708 | 5-12 |
| FLE16/2/R30/SWCD | | |
| FLE15/2DMR30/BX | 66664 | 5-13 |
| FLE15/DVR30RVLCD | 63522 | 5-10 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| FLE15HB19/2RVLBX | 67459 | 5-10 |
| FLE15HBG25SW | 87432 | 5-10 |
| FLE15HT3/2/D/CD | 89091 | 5-11 |
| FLE14HT3/2/D/CD | | |
| FLE15HT3/2/XL/CD | 47435 | 5-11 |
| FLE15HT3/2/XL/SW | 80937 | 5-11 |
| FLE15HT3/2GU24CD | 75367 | 5-12 |
| FLE15HT3/2SX/827 | 64801 | 5-11 |
| FLE15HT3XXLL/5BX | 69659 | 5-11 |
| FLE15R30/RVL-TP6 | 61164 | 5-10 |
| FLE15R30/RVL/BX | 67461 | 5-10 |
| FLE16/2/R30/2P | 72984 | 5-13 |
| FLE16/2/R30XL/CD | 47478 | 5-12 |
| FLE16/2/R30XL827 | 80893 | 5-12 |
| FLE19HB21/2RVLCD | 63509 | 5-10 |
| FLE20/2/A19XL | 89634 | 5-13 |
| FLE20/2/T19XL | 89635 | 5-13 |
| FLE20HB21/2/SWCD | 63504 | 5-10 |
| FLE20HT2/12H/DCD | 62951 | 5-11 |
| FLE20HT2/2/XL/2P | 72875 | 5-11 |
| FLE20HT2/2/XL/CD | 72880 | 5-11 |
| FLE20HT2D/XL/BX3 | 68520 | 5-11 |
| FLE20HT3/2/6S/TP | 71764 | 5-11 |
| FLE20HT3/2/827 | 15834 | 5-11 |
| FLE20HT3/2/841 | 25186 | 5-11 |
| FLE20HT3/2/BX2PK | 74201 | 5-11 |
| FLE20HT3/2/CB/BX | 76993 | 5-12 |
| FLE20HT3/2/D/CD | 89094 | 5-11 |
| FLE20HT3/2/RVL/CD | 75407 | 5-10 |
| FLE20HT3/2/SW/BX | 74200 | 5-12 |
| FLE20HT3/2/SW/CD | 15516 | 5-11 |
| FLE20HT3/2/SW5PK | 97249 | 5-12 |
| FLE20HT3/2/SW6PK | 71284 | 5-12 |
| FLE20HT3/2/SWBX3 | 97690 | 5-12 |
| FLE20HT3/2/XL827 | 80888 | 5-11 |
| FLE20HT3/2DBX2/6 | 64006 | 5-12 |
| FLE20HT3/2GU24CD | 76136 | 5-12 |
| FLE20HT3/2RVLBX2 | 84252 | 5-10 |
| FLE20HT3/2RVLBX2 | 67453 | 5-10 |
| FLE20HT3/2SW/BX4 | 65672 | 5-12 |
| FLE20HT3/2SX/827 | 64802 | 5-11 |
| FLE20HT32SWCD3PK | 49587 | 5-12 |
| FLE20HT3XXLL/2BX | 69656 | 5-11 |
| FLE23HT/3/2/827 | 42164 | 5-12 |
| FLE23HT3/2/841 | 94546 | 5-12 |
| FLE23HT3/2/SW/CD | 15517 | 5-12 |
| FLE23HT3/2/XL827 | 80889 | 5-12 |
| FLE24/2PAR38FLCD | 78964 | 5-13 |
| FLE25HBA23RVLCD | 87461 | 5-10 |
| FLE25HBA23RVLWB | 95143 | 5-10 |
| FLE26/2/PAR38/CD | 21739 | 5-13 |
| FLE26/2/PAR38/XL | 80895 | 5-13 |
| FLE26/2/PAR382P | 73157 | 5-13 |
| FLE26/2/T21XL | 89636 | 5-13 |
| FLE26/2PAR38/BX | 82004 | 5-13 |
| FLE26/2PAR38XCD | 47483 | 5-13 |
| FLE26/DMR40RVLCD | 66668 | 5-10 |
| FLE26HT3/2/D/CD | 89095 | 5-12 |
| FLE26HT3/2/RVL/CD | 75408 | 5-10 |
| FLE26HT3/2/XL827 | 80890 | 5-12 |
| FLE26HT3/2D/3BX | 77123 | 5-12 |
| FLE26HT3/2D3CD | 77124 | 5-12 |
| FLE26HT3/2DM/BX | 66663 | 5-12 |
| FLE26HT3/2GU24CD | 76137 | 5-12 |
| FLE26HT3/2RVLBX2 | 67454 | 5-10 |

Index (cont.)

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| FLE26HT3/2RVLBX2 | 84253 | 5-10 |
| FLE26HT3/2RVLBX4 | 84262 | 5-10 |
| FLE26HT3/2RVLBX4 | 66354 | 5-10 |
| FLE26HT3/2RVLCD2 | 75413 | 5-10 |
| FLE26HT3/DMRVLBX | 67468 | 5-10 |
| FLE26HT3/DMRVLCD | 63521 | 5-10 |
| FLE26PAR3BDM/BX | 66667 | 5-12 |
| FLE26R40RVL/BXHH | 67467 | 5-10 |
| FLE26R40RVL/BXTP | 89860 | 5-10 |
| FLE26R40XLRVLT6 | 61355 | 5-10 |
| FLE29HLX/2XL/827 | 81514 | 5-12 |
| FLE32HLX/2/SW/BX | 24684 | 5-12 |
| FLE32HT3/2D3/BX | 78952 | 5-12 |
| FLE32HT3/2D3/CD | 63482 | 5-12 |
| FLE32HT3/2D3/DBX | 63517 | 5-12 |
| FLE32HT3/2D3CWBX | 62070 | 5-12 |
| FLE32HT3D3RVL/BX | 67466 | 5-10 |
| FLE32HTD3RVL/CD | 62908 | 5-10 |
| FLE42HLX/2/SW/BX | 97728 | 5-12 |
| FLE42HLX/2/XL827 | 80891 | 5-12 |
| FLE55HT5/2/SW/BX | 78965 | 5-12 |
| FLE9/2/CAC/SW/CD | 85388 | 5-13 |
| FLE9/2/CAC/XL2PK | 79068 | 5-13 |
| FLE9/2/CAM/SW/CD | 24692 | 5-13 |
| FLE9/2/CAM/XL/CD | 47488 | 5-13 |
| FLE9/2CAC/XL/827 | 16105 | 5-13 |
| FLE9/3/CAC/SSBX3 | 60295 | 5-13 |
| FLE9/3/CAC/SWBX3 | 60299 | 5-13 |
| FLE9/3/CAM/SSBX3 | 60292 | 5-13 |
| FLE9/3/CAM/SWBX3 | 60297 | 5-13 |
| FLE9/3/G18/3PK | 74587 | 5-14 |
| FLE9/3/G18/CD | 74586 | 5-14 |
| FLE9H/T3/2/827 | 42165 | 5-11 |
| FLE9H/T3/2/841 | 42171 | 5-11 |
| FLE9HT3/2/BX/2P | 74197 | 5-11 |
| FLE9HT3/2/SW/BX | 74196 | 5-11 |
| FLE9HT3/2/SW5PK | 73156 | 5-11 |
| FLE9HT3/2SW/BX4 | 65670 | 5-11 |
| FLEG25XLRVLT6 | 61353 | 5-10 |
| FLK-Q575T6 | 88548 | 7-7 |
| FLK/LL-Q575T6 | 88452 | 7-7 |
| FML | 14887 | 9-6 |
| FRG-Q500T8 | 88467 | 7-7 |
| FRK-Q650T8 | 88462 | 7-7 |
| FS-2-C/TP | 64818 | 15-6 |
| FS-25-C/TP | 64820 | 15-6 |
| FS-4-C/TP | 64819 | 15-6 |
| FS-5-C/TP | 64821 | 15-6 |
| FXL | 21613 | 9-6 |
| G10T8 | 29498 | 4-21 |
| G11T5 | 29495 | 4-21 |
| G15T8 | 11078 | 4-21 |
| G15T8/CVG | 72761 | 4-19 |
| G16T5/4P/SE | 29502 | 4-21 |
| G20T10 | 15876 | 4-21 |
| G25T8 | 11082 | 4-21 |
| G30T8 | 11080 | 4-21 |
| G36T5 | 15874 | 4-21 |
| G36T5/4P/SE | 29503 | 4-21 |
| G36T8 | 29499 | 4-21 |
| G4T5 | 15872 | 4-21 |
| G55T8/HO | 15875 | 4-21 |
| G64T5 | 15864 | 4-21 |
| G64T5/4P/SE | 29504 | 4-21 |
| G6T5 | 15873 | 4-21 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| G8T5 | 11077 | 4-21 |
| GE-232-MVPS-H | 29675 | 11-6 |
| GE-232-MVPS-XL | 29671 | 11-7 |
| GE-259-120-N | 23677 | 10-57 |
| GE-260IS-MV-N | 74474 | 14-4 |
| GE-332-120-N | 23673 | 10-56 |
| GE-332-MVPS-H | 29676 | 11-8 |
| GE-332-MVPS-XL | 29672 | 11-10 |
| GE-332MVPS-H-V03 | 75384 | 12-21 |
| GE-432-120-PS-N | 29625 | 11-10 |
| GE-CV-406OCTR | 79814 | 20-3 |
| GE-MH-250-400-MA | 29377 | 18-62 |
| GE132-MVPS-H | 75954 | 11-4 |
| GE132-MVPS-L | 75952 | 11-2 |
| GE132-MVPS-N | 75953 | 11-3 |
| GE132-MVPS-N-S30 | 68966 | 12-5 |
| GE132MAX-G-347 | 74101 | 10-51 |
| GE132MAX-G-N | 72269 | 10-39 |
| GE132MAXP-H/ULTRA | 63885 | 10-9 |
| GE132MAXP-L/ULTRA | 72258 | 10-7 |
| GE132MAXP-N/ULTRA | 72259 | 10-8 |
| GE132MVPS-N-V03 | 75379 | 12-16 |
| GE159MAX-G-N | 72271 | 10-49 |
| GE180MVPS-D | 72280 | 13-10 |
| GE21T5-120-RES | 78518 | 13-3 |
| GE224MVPS-N | 68976 | 13-5 |
| GE228MVPS-MC | 68993 | 13-4 |
| GE228MVPS-MC-H | 68994 | 13-4 |
| GE228MVPS-N-S35 | 90903 | 12-24 |
| GE232-120-RES | 97782 | 10-58 |
| GE232-MVPS-H-V03 | 75383 | 12-20 |
| GE232-MVPS-L | 96720 | 11-5 |
| GE232-MVPS-L-S30 | 68968 | 12-6 |
| GE232-MVPS-N | 96714 | 11-5 |
| GE232-MVPS-N-S30 | 68967 | 12-7 |
| GE232MAX-G-347 | 74103 | 10-52 |
| GE232MAX-G-H | 74803 | 10-40 |
| GE232MAX-G-L | 72273 | 10-41 |
| GE232MAX-G-N | 72275 | 10-42 |
| GE232MAX90-S60 | 73233 | 12-8 |
| GE232MAX90-V60 | 73234 | 12-12 |
| GE232MAXP-H/ULTRA | 73190 | 10-10 |
| GE232MAXP-L/ULTRA | 72262 | 10-11 |
| GE232MAXP-N/ULTRA | 72266 | 10-12 |
| GE232MAXP-N+ | 71421 | 10-13 |
| GE232MAXP347-H | 74109 | 10-33 |
| GE232MAXP347-L | 74096 | 10-30 |
| GE232MAXP347-N | 74093 | 10-26 |
| GE232MAXP347-N+ | 67435 | 10-27 |
| GE232MAXP480-H | 62718 | 10-36 |
| GE232MVPS-N-V03 | 75380 | 12-17 |
| GE232PS347-H | 62726 | 11-18 |
| GE232PS347-L | 62721 | 11-13 |
| GE232PS347-N | 62723 | 11-15 |
| GE240PS-MV-N | 74472 | 14-3 |
| GE254MVPS-D-1 | 33957 | 13-7 |
| GE254MVPS90-A | 67562 | 13-6 |
| GE254PS347-F | 62729 | 13-12 |
| GE254PS347/480-F | 62728 | 13-11 |
| GE259MAX-G-347 | 74099 | 10-55 |
| GE259MAX-G-N | 74469 | 10-50 |
| GE259MAXP-L/ULTRA | 73199 | 10-24 |
| GE259MAXP-N/ULTRA | 49767 | 10-23 |
| GE286MAXP-HO-N | 63888 | 10-25 |
| GE28T5-120-RES | 78811 | 13-3 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| GE28T5/2-120-RES | 80021 | 13-3 |
| GE296HO-MVPS-N | 35727 | 14-5 |
| GE332-MVPS-L | 96721 | 11-9 |
| GE332-MVPS-N | 96715 | 11-9 |
| GE332MAX-G-347 | 74105 | 10-53 |
| GE332MAX-G-H | 74461 | 10-43 |
| GE332MAX-G-L | 74459 | 10-44 |
| GE332MAX-G-N | 74456 | 10-45 |
| GE332MAX90-S60 | 73231 | 12-9 |
| GE332MAX90-V60 | 73232 | 12-13 |
| GE332MAXP-H/ULTRA | 78619 | 10-14 |
| GE332MAXP-L/ULTRA | 78621 | 10-15 |
| GE332MAXP-N/ULTRA | 78623 | 10-16 |
| GE332MAXP-N+ | 71422 | 10-17 |
| GE332MAXP347-H | 74111 | 10-34 |
| GE332MAXP347-L | 74097 | 10-31 |
| GE332MAXP347-N | 74094 | 10-28 |
| GE332MAXP480-H | 62719 | 10-37 |
| GE332MVPS-N-V03 | 75381 | 12-18 |
| GE332PS347-H | 62727 | 11-19 |
| GE332PS347-L | 63041 | 11-20 |
| GE332PS347-N | 62724 | 11-16 |
| GE432-120-RES | 97783 | 10-59 |
| GE432-MVPS-H | 74476 | 11-12 |
| GE432-MVPS-H-V03 | 75385 | 12-22 |
| GE432-MVPS-L | 71832 | 11-11 |
| GE432-MVPS-N | 96716 | 11-11 |
| GE432-MVPS-N-V03 | 75382 | 12-19 |
| GE432MAX-G-347 | 74107 | 10-54 |
| GE432MAX-G-H | 67911 | 10-46 |
| GE432MAX-G-L | 74466 | 10-47 |
| GE432MAX-G-N | 74463 | 10-48 |
| GE432MAX90-S60 | 73229 | 12-10 |
| GE432MAX90-V60 | 73230 | 12-14 |
| GE432MAXP-H/ULTRA | 71723 | 10-18 |
| GE432MAXP-L/ULTRA | 78625 | 10-19 |
| GE432MAXP-N/ULTRA | 78627 | 10-20 |
| GE432MAXP347-H | 74113 | 10-35 |
| GE432MAXP347-L | 74098 | 10-32 |
| GE432MAXP347-N | 74095 | 10-29 |
| GE432MAXP480-H | 62720 | 10-38 |
| GE432MVPS-H-42T | 74477 | 11-12 |
| GE432MVPS-N-V03W | 62044 | 12-23 |
| GE432PS347-L | 62722 | 11-14 |
| GE432PS347-N | 62725 | 11-17 |
| GE454MVPS90-E-S | 94131 | 13-8 |
| GE454MVPS90-F | 67566 | 13-9 |
| GE454PS347-E | 62731 | 13-14 |
| GE454PS347/480-E | 62730 | 13-13 |
| GE632MAX-H90-S60 | 71497 | 12-11 |
| GE632MAX-H90-V60 | 71731 | 12-15 |
| GE632MAXP-H90 | 74117 | 10-22 |
| GEC140MAX-A | 75948 | 17-10 |
| GEC213-MVPS-3W | 63089 | 17-6 |
| GEC213-MVPS-BES | 63091 | 17-6 |
| GEC213-MVPS-SE | 63092 | 17-6 |
| GEC218-MVPS-3W | 63093 | 17-7 |
| GEC218-MVPS-BES | 63094 | 17-7 |
| GEC218-MVPS-SE | 63096 | 17-7 |
| GEC225MVPS-A | 75950 | 17-13 |
| GEC226-MVPS-3W | 63097 | 17-8 |
| GEC226-MVPS-BES | 63098 | 17-8 |
| GEC226-MVPS-SE | 63099 | 17-8 |
| GEC240MAX-A | 71435 | 17-11 |
| GEC240MVPS-A | 71437 | 17-13 |

| Description | Order Code | Page Number |
|----------------------|------------|-------------|
| GEC242-MVPS-3W | 63100 | 17-9 |
| GEC242-MVPS-BES | 63101 | 17-9 |
| GEC242-MVPS-SE | 63102 | 17-9 |
| GEC340MAX-A | 71436 | 17-12 |
| GECAP-10/400V-O | 75433 | 18-59 |
| GECAP-12/280V-D | 75427 | 18-59 |
| GECAP-14/280V-D | 75669 | 18-59 |
| GECAP-15/400V-O | 75434 | 18-59 |
| GECAP-16/280V-D | 75428 | 18-59 |
| GECAP-21/345V-O | 75431 | 18-59 |
| GECAP-22.5/345V-O | 75432 | 18-59 |
| GECAP-24/400V-O | 75435 | 18-59 |
| GECAP-24/480V-O | 75668 | 18-59 |
| GECAP-26/525V-O | 75437 | 18-59 |
| GECAP-28/400V-O | 75436 | 18-59 |
| GECAP-32/525V-O | 75438 | 18-59 |
| GECAP-35/240V-D | 75422 | 18-59 |
| GECAP-5/300V-D | 75429 | 18-59 |
| GECAP-55/240V-D | 75423 | 18-59 |
| GECAP-6/280V-D | 75425 | 18-59 |
| GECAP-7/300V-D | 75430 | 18-59 |
| GECAP-8/280V-D | 75426 | 18-59 |
| GELT604835CTR-SY/ SB | 85754 | 20-3 |
| GELT604835EDL-SY/ SB | 85756 | 20-3 |
| GELT604835EDR-SY/ SB | 85755 | 20-3 |
| GELT604840CTR-SY/ SB | 85748 | 20-3 |
| GELT604840EDL-SY/ SB | 85750 | 20-3 |
| GELT604840EDR-SY/ SB | 85749 | 20-3 |
| GELT604850CTR-SY/ SB | 85742 | 20-3 |
| GELT604850EDL-SY/ SB | 85744 | 20-3 |
| GELT604850EDR-SY/ SB | 85743 | 20-3 |
| GELT606035CTR-SY/ SB | 85711 | 20-3 |
| GELT606035EDL-SY/ SB | 85713 | 20-3 |
| GELT606035EDR-SY/ SB | 85712 | 20-3 |
| GELT606040CTR-SY/ SB | 85705 | 20-3 |
| GELT606040EDL-SY/ SB | 85707 | 20-3 |
| GELT606040EDR-SY/ SB | 85706 | 20-3 |
| GELT606050CTR-SY/ SB | 85699 | 20-3 |
| GELT606050EDL-SY/ SB | 85701 | 20-3 |
| GELT606050EDR-SY/ SB | 85700 | 20-3 |
| GELT606735CTR-SY/ SB | 85736 | 20-3 |
| GELT606735EDL-SY/ SB | 85738 | 20-3 |
| GELT606735EDR-SY/ SB | 85737 | 20-3 |
| GELT606740CTR-SY/ SB | 85725 | 20-3 |
| GELT606740EDL-SY/ SB | 85727 | 20-3 |
| GELT606740EDR-SY/ SB | 85726 | 20-3 |
| GELT606750CTR-SY/ SB | 85717 | 20-3 |
| GELT606750EDL-SY/ SB | 85721 | 20-3 |
| GELT606750EDR-SY/ SB | 85720 | 20-3 |
| GEM100048TAC5-5 | 86650 | 18-61 |
| GEM100048TAC5-5/2 | 63069 | 18-23 |
| GEM1000ML5AA5-5/2 | 87213 | 18-23 |
| GEM1000ML5AC4-55 | 71704 | 18-50 |
| GEM1000MLTAA5-5/2 | 86655 | 18-24 |
| GEM1000TRIAC5-5 | 78524 | 18-24 |
| GEM10048TLA3D-5/2 | 67333 | 18-15 |
| GEM10048TLC3D-5 | 86667 | 18-60 |
| GEM100MLTLC3D-5 | 86675 | 18-14 |
| GEM100TRILC3-5 | 78519 | 18-14 |
| GEM120PH120DIY | 68186 | 15-2 |
| GEM120TC120DIY | 68187 | 15-2 |
| GEM150048TAC5M5-5 | 86693 | 18-25 |
| GEM1500MLTAC5-5 | 86698 | 18-25 |
| GEM15048TLC3D-5 | 86711 | 18-16 |
| GEM150MLTLC3D-5 | 86718 | 18-15 |

| Description | Order Code | Page Number |
|--------------------|------------|-------------|
| GEM150TRILC3-5 | 78520 | 18-16 |
| GEM175ML5AC3-5 | 87210 | 18-17 |
| GEM175ML5AC3-55 | 71701 | 18-49 |
| GEM175MLTAC3-5 | 86741 | 18-17 |
| GEM175TRIAC3-5 | 78521 | 18-18 |
| GEM1CF13PH120 | 68188 | 15-5 |
| GEM1CF13PH120 | 87533 | 17-14 |
| GEM1FC16T9RS120 | 68190 | 15-3 |
| GEM1FC8T9RS120DI | 68191 | 15-4 |
| GEM1FC8T9RS120IP | 68193 | 15-4 |
| GEM220TS120DIY | 68192 | 15-5 |
| GEM232T8RS120 | 87125 | 10-60 |
| GEM250ML5AC3-5 | 87211 | 18-19 |
| GEM250ML5AC3-55 | 71702 | 18-49 |
| GEM250ML5AC4-5 | 87212 | 18-20 |
| GEM250MLTAC3-5 | 86765 | 18-19 |
| GEM250TRIAC4-5 | 78522 | 18-20 |
| GEM40048TAA4 - 5/2 | 63070 | 18-22 |
| GEM40048TAC4-5 | 86803 | 18-61 |
| GEM400ML5AA4-5/2 | 72300 | 18-21 |
| GEM400ML5AC4-55 | 71703 | 18-50 |
| GEM400MLTAA4-5 | 72149 | 18-22 |
| GEM400TRIAC4-5 | 78523 | 18-21 |
| GEM50MLTLC3D-5 | 86824 | 18-12 |
| GEM7048TLA3D-5/2 | 67337 | 18-13 |
| GEM7048TLC3D-5 | 86839 | 18-60 |
| GEM70MLTLC3D-5 | 86847 | 18-12 |
| GEM70MVR-F | 63047 | 18-53 |
| GEM70TRILC3-5 | 78517 | 18-13 |
| GEMH100-SLJ-MV | 87561 | 18-11 |
| GEMH100MVR-F | 63048 | 18-54 |
| GEMH150-SLJ-MV | 87576 | 18-11 |
| GEMH150MVR-F | 63049 | 18-54 |
| GEMH175MVA-F | 63050 | 18-55 |
| GEMH20-MC-120 | 74115 | 18-5 |
| GEMH20-MLF-120 | 87490 | 18-5 |
| GEMH20-MSF-MV | 63043 | 18-6 |
| GEMH20-MSJ-MV | 63042 | 18-6 |
| GEMH250-400MV50 | 89646 | 18-62 |
| GEMH250MVA-F | 63051 | 18-55 |
| GEMH39-MC-120 | 74116 | 18-8 |
| GEMH39-MCM-120 | 75378 | 18-8 |
| GEMH39-MSF-120 | 87501 | 18-9 |
| GEMH39-MSF-MV | 63045 | 18-7 |
| GEMH39-MSJ-MV | 63044 | 18-7 |
| GEMH400MVA-F | 63052 | 18-56 |
| GEMH50-MSF-120 | 87516 | 18-61 |
| GEMH70-MSF-120 | 87531 | 18-9 |
| GEMH70-MSLF-120 | 94135 | 18-10 |
| GEMH70-SLJ-MV | 87546 | 18-10 |
| GEMT3000NCM1-SB | 69723 | 20-5 |
| GEMT3000NCM1-SY | 69721 | 20-5 |
| GEMT302430CAN-SB | 69684 | 20-4 |
| GEMT302430CAN-SY | 69682 | 20-4 |
| GEMT302430USL-SB | 69690 | 20-4 |
| GEMT302430USL-SY | 69689 | 20-4 |
| GEMT302435CAN-SB | 69710 | 20-4 |
| GEMT302435CAN-SY | 69709 | 20-4 |
| GEMT302435USL-SB | 69716 | 20-4 |
| GEMT302435USL-SY | 69715 | 20-4 |
| GEMT302440CAN-SB | 69653 | 20-4 |
| GEMT302440CAN-SY | 69652 | 20-4 |
| GEMT302440USL-SB | 69665 | 20-4 |
| GEMT302440USL-SY | 69664 | 20-4 |
| GEMT302450CAN-SB | 69641 | 20-4 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| GEMT302450CAN-SY | 69640 | 20-4 |
| GEMT302450USL-SB | 69647 | 20-4 |
| GEMT302450USL-SY | 69646 | 20-4 |
| GEMT303630CAN-SB | 69686 | 20-4 |
| GEMT303630CAN-SY | 69685 | 20-4 |
| GEMT303630USL-SB | 69694 | 20-4 |
| GEMT303630USL-SY | 69691 | 20-4 |
| GEMT303635USL-SB | 69718 | 20-4 |
| GEMT303635CAN-SB | 69712 | 20-4 |
| GEMT303635CAN-SY | 69711 | 20-4 |
| GEMT303635USL-SY | 69717 | 20-4 |
| GEMT303640CAN-SB | 69661 | 20-4 |
| GEMT303640CAN-SY | 69660 | 20-4 |
| GEMT303640USL-SB | 69667 | 20-4 |
| GEMT303640USL-SY | 69666 | 20-4 |
| GEMT303650CAN-SB | 69643 | 20-4 |
| GEMT303650CAN-SY | 69642 | 20-4 |
| GEMT303650USL-SB | 69649 | 20-4 |
| GEMT303650USL-SY | 69648 | 20-4 |
| GEMT304830CAN-SB | 69688 | 20-4 |
| GEMT304830CAN-SY | 69687 | 20-4 |
| GEMT304830USL-SB | 69696 | 20-4 |
| GEMT304830USL-SY | 69695 | 20-4 |
| GEMT304835CAN-SB | 69714 | 20-4 |
| GEMT304835CAN-SY | 69713 | 20-4 |
| GEMT304835USL-SB | 69720 | 20-4 |
| GEMT304835USL-SY | 69719 | 20-4 |
| GEMT304840CAN-SB | 69663 | 20-4 |
| GEMT304840CAN-SY | 69662 | 20-4 |
| GEMT304840USL-SB | 69669 | 20-4 |
| GEMT304840USL-SY | 69668 | 20-4 |
| GEMT304850CAN-SB | 69645 | 20-4 |
| GEMT304850CAN-SY | 69644 | 20-4 |
| GEMT304850USL-SB | 69651 | 20-4 |
| GEMT304850USL-SY | 69650 | 20-4 |
| GEMT312430CAN-SB | 69698 | 20-5 |
| GEMT312430CAN-SY | 69697 | 20-5 |
| GEMT312430USL-SB | 69704 | 20-5 |
| GEMT312430USL-SY | 69703 | 20-5 |
| GEMT312440CAN-SB | 69671 | 20-5 |
| GEMT312440CAN-SY | 69670 | 20-5 |
| GEMT312440USL-SB | 69677 | 20-5 |
| GEMT312440USL-SY | 69676 | 20-5 |
| GEMT313630CAN-SB | 69700 | 20-5 |
| GEMT313630CAN-SY | 69699 | 20-5 |
| GEMT313630USL-SB | 69706 | 20-5 |
| GEMT313630USL-SY | 69705 | 20-5 |
| GEMT313640CAN-SB | 69673 | 20-5 |
| GEMT313640CAN-SY | 69672 | 20-5 |
| GEMT313640USL-SB | 69679 | 20-5 |
| GEMT313640USL-SY | 69678 | 20-5 |
| GEMT314830CAN-SB | 69702 | 20-5 |
| GEMT314830CAN-SY | 69701 | 20-5 |
| GEMT314830USL-SB | 69708 | 20-5 |
| GEMT314830USL-SY | 69707 | 20-5 |
| GEMT314840CAN-SB | 69675 | 20-5 |
| GEMT314840CAN-SY | 69674 | 20-5 |
| GEMT314840USL-SB | 69681 | 20-5 |
| GEMT314840USL-SY | 69680 | 20-5 |
| GEP1000ML5AA5-5/2 | 67349 | 18-36 |
| GEP1000ML5AC5-5 | 72282 | 18-63 |
| GEP1000MLTAA5-5/2 | 67348 | 18-35 |
| GEP1000MLTAC5-5 | 72281 | 18-63 |
| GEP1000TRIAC5-5 | 78532 | 18-35 |
| GEP17548TAA3-5/2 | 67334 | 18-27 |

Index (cont.)

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| GEP17548TAC3-5 | 86876 | 18-62 |
| GEP175MLTAC3-5 | 86885 | 18-62 |
| GEP175MLTACA3-5/2 | 67335 | 18-26 |
| GEP175TRIAC3-5 | 78525 | 18-26 |
| GEP200TRIAC3-5 | 78526 | 18-27 |
| GEP25048TAA4-5/2 | 67336 | 18-29 |
| GEP25048TAC4-5 | 86926 | 18-62 |
| GEP250MLTAA4-5/2 | 67344 | 18-28 |
| GEP250MLTAC4-5 | 86935 | 18-62 |
| GEP250TRIAC4-5 | 78527 | 18-28 |
| GEP32048TAC4-5 | 86952 | 18-62 |
| GEP32048TAC4-5/2 | 67342 | 18-30 |
| GEP320MLTAA4-5/2 | 67345 | 18-29 |
| GEP320MLTAC4-5 | 86959 | 18-62 |
| GEP320TRIAC4-5 | 78528 | 18-30 |
| GEP320TRIAC4-5 | 86968 | 18-63 |
| GEP350277RCE-5 | 42692 | 18-63 |
| GEP350MLTAA4-5/2 | 67346 | 18-31 |
| GEP350MLTAC4-5 | 86984 | 18-63 |
| GEP350TRIAC4-5 | 78529 | 18-31 |
| GEP40048TAA4-5/2 | 67341 | 18-32 |
| GEP40048TAC4-5 | 86999 | 18-63 |
| GEP400MLTAA4-5/2 | 67347 | 18-32 |
| GEP400MLTAC4-5 | 87008 | 18-63 |
| GEP400TRIAC4-5 | 78530 | 18-33 |
| GEP75048TAA5-5/2 | 67343 | 18-33 |
| GEP75048TAC5-5 | 46936 | 18-63 |
| GEP750MLTAA5-5/2 | 67350 | 18-34 |
| GEP750MLTAC5-5 | 46934 | 18-63 |
| GEP750TRIAC5-5 | 78531 | 18-34 |
| GEPS6100NCCON-SY | 13798 | 20-3 |
| GEPS6100NCCON-SY | 13798 | 20-5 |
| GEPS6500NCMUL-SY | 68595 | 20-3 |
| GEPS6500NCMUL-SY | 68595 | 20-5 |
| GES100048TAA5-5/2 | 67351 | 18-46 |
| GES100048TAC5-5 | 87048 | 18-64 |
| GES1000ML5AA5-5 | 87218 | 18-47 |
| GES1000MLTAA5-5/2 | 67352 | 18-47 |
| GES1000MLTAC5-5 | 87056 | 18-64 |
| GES1000TRIAC5-5 | 78540 | 18-48 |
| GES10048TLA3D-5/2 | 67338 | 18-40 |
| GES10048TLC3D-5 | 87068 | 18-64 |
| GES100MLTLC3D-5 | 87074 | 18-39 |
| GES100MLTLC3D-55 | 71705 | 18-51 |
| GES100TRILC3-5 | 78535 | 18-40 |
| GES15048TLA3D-5/2 | 67339 | 18-42 |
| GES15048TLC3D-5 | 87087 | 18-64 |
| GES150MLTLC3D-5 | 87094 | 18-41 |
| GES150TRILC3-5 | 78536 | 18-41 |
| GES250ML5AA4-5 | 87214 | 18-43 |
| GES250ML5AC4-55 | 71706 | 18-51 |
| GES250MLTAC4-5 | 87121 | 18-43 |
| GES250TRIAC4-5 | 78537 | 18-44 |
| GES40048TAC4-5 | 87198 | 18-46 |
| GES400ML5AA4-5 | 63066 | 18-44 |
| GES400ML5AC4-5 | 87215 | 18-64 |
| GES400ML5AC4-55 | 71707 | 18-52 |
| GES400MLTAC4-5 | 87164 | 18-45 |
| GES400TRIAC4-5 | 78539 | 18-45 |
| GES500MLTLC3D-5 | 87152 | 18-37 |
| GES500TRILC3-5 | 78533 | 18-37 |
| GES7048TLA3D-5/2 | 67340 | 18-39 |
| GES7048TLC3D-5 | 86456 | 18-63 |
| GES70MLTA3D-5 | 86587 | 18-38 |
| GES70TRILC3-5 | 78534 | 18-38 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| GESB-0412-12-IP | 72103 | 16-3 |
| GESB-0620-24-IP | 72104 | 16-3 |
| GESB-1224-24-IP | 72105 | 16-4 |
| GESB-1240-46-IP | 72106 | 16-4 |
| GESB-2040-24-IP | 72107 | 16-5 |
| GESB-2448-46-IP | 72108 | 16-5 |
| GETR277/120-175W | 85857 | 13-16 |
| GETR347/277-375W | 90896 | 13-16 |
| GETR480/277-250W | 74119 | 13-15 |
| GETR480/277-375W | 74120 | 13-15 |
| GFC-Q1200PAR64/1 | 88487 | 7-8 |
| GLA-Q575T6/4CL | 88424 | 7-7 |
| GLC-Q575T6/5CL | 88423 | 7-7 |
| GLD-Q750T6/4CL | 88427 | 7-7 |
| GLE-Q750T6/4CL | 88426 | 7-7 |
| H1 NHX/BP2 | 69857 | 8-9 |
| H1-55 | 40336 | 8-29 |
| H1-55 NH | 25092 | 8-29 |
| H1-55 NH | 25159 | 8-29 |
| H1-55/BP | 40336 | 8-12 |
| H1-55/BP | 40336 | 8-12 |
| H1-55NH/BP | 25159 | 8-10 |
| H1-55NH/BP2 | 25092 | 8-10 |
| H1-55NHP | 78134 | 8-29 |
| H1-55NHP | 94193 | 8-29 |
| H1-55NHP/BP2 | 78134 | 8-9 |
| H1-55NHX | 69857 | 8-29 |
| H1-70 | 27569 | 8-29 |
| H1-LL | 12777 | 8-11 |
| H1-LL | 12777 | 8-13 |
| H11 | 23762 | 8-30 |
| H11 C55NHP | 76189 | 8-30 |
| H11 NHX/BP2 | 69865 | 8-9 |
| H11-55 NHP/BP2 | 62267 | 8-9 |
| H11-55/BP | 23762 | 8-12 |
| H11-55/BP | 23762 | 8-14 |
| H11-55LL/BP | 89255 | 8-11 |
| H11-55LL/BP | 89255 | 8-13 |
| H11-55NHP | 62267 | 8-30 |
| H11-55NHX | 69865 | 8-30 |
| H11LL | 89255 | 8-30 |
| H13 (9008) | 71342 | 8-30 |
| H13 (9008) NH | 78653 | 8-30 |
| H13 (9008) NHP | 62430 | 8-30 |
| H13 (9008) NHS | 78654 | 8-30 |
| H13NH/BP2 | 78653 | 8-10 |
| H13NHP/BP2 | 62430 | 8-9 |
| H13NHS/BP2 | 78654 | 8-10 |
| H2-55 | 27330 | 8-29 |
| H3-100 | 12341 | 8-29 |
| H3-100/BP | 12341 | 8-12 |
| H3-100/BP | 12341 | 8-12 |
| H3-35 | 23442 | 8-29 |
| H3-55 | 12339 | 8-29 |
| H3-55/BP | 12339 | 8-12 |
| H3-55/BP | 12339 | 8-12 |
| H3-55D | 23445 | 8-29 |
| H3-55LL | 35044 | 8-29 |
| H3-65/28V | 23428 | 8-29 |
| H3-70/28V | 27332 | 8-29 |
| H4 NHX/BP2 | 69858 | 8-9 |
| H4-60 NH | 25094 | 8-29 |
| H4-60/55 | 27334 | 8-12 |
| H4-60/55 | 27334 | 8-14 |
| H4-60/55 | 18132 | 8-29 |

| Description | Order Code | Page Number |
|--------------|------------|-------------|
| H4-60/55/BP | 18132 | 8-12 |
| H4-60MS/BP | 89256 | 8-12 |
| H4-60NH/BP1 | 25094 | 8-10 |
| H4-60NHP | 75820 | 8-29 |
| H4-60NHP/BP2 | 75820 | 8-9 |
| H4-60NHX | 69858 | 8-29 |
| H4-75/70 | 27342 | 8-14 |
| H4-75/70/28V | 27342 | 8-29 |
| H4351 | 22386 | 8-14 |
| H4351 | 22386 | 8-33 |
| H4351LH | 10211 | 8-33 |
| H4352 | 22387 | 8-14 |
| H4352 | 22387 | 8-33 |
| H4360 | 18350 | 8-33 |
| H4405 | 15129 | 8-33 |
| H4460X | 17674 | 8-33 |
| H4515 | 15133 | 8-33 |
| H4651 | 18532 | 8-33 |
| H4651SB | 46375 | 8-33 |
| H4656 | 18533 | 8-12 |
| H4656 | 18532 | 8-14 |
| H4656 | 18533 | 8-33 |
| H4656 NH | 25098 | 8-33 |
| H4656 NHS | 97695 | 8-33 |
| H4656HO | 14753 | 8-33 |
| H4656HO0 | 14753 | 8-14 |
| H4656NH | 25098 | 8-10 |
| H4656NHS | 97695 | 8-10 |
| H4656SB | 45475 | 8-33 |
| H4666 | 18535 | 8-12 |
| H4666 | 18535 | 8-14 |
| H4666 | 18535 | 8-33 |
| H4666 NH | 28157 | 8-33 |
| H4666 NHS | 97694 | 8-33 |
| H4666NH | 28157 | 8-10 |
| H4666NH* | 28157 | 8-14 |
| H4666NHS | 97694 | 8-10 |
| H4701 | 18536 | 8-14 |
| H4701 | 18536 | 8-33 |
| H4703 | 18538 | 8-14 |
| H4703 | 18538 | 8-33 |
| H5001 | 18522 | 8-14 |
| H5001 | 18522 | 8-33 |
| H5006 | 18523 | 8-14 |
| H5006 | 18523 | 8-33 |
| H5024 | 19428 | 8-11 |
| H5024 | 19428 | 8-13 |
| H5024 | 19428 | 8-33 |
| H5051 | 19411 | 8-11 |
| H5051 | 19411 | 8-13 |
| H5051 | 19411 | 8-33 |
| H5054 | 19429 | 8-11 |
| H5054 | 19429 | 8-13 |
| H5054 | 19429 | 8-33 |
| H5062 | 19412 | 8-11 |
| H5062 | 19412 | 8-13 |
| H5062 | 19412 | 8-33 |
| H5360 | 41453 | 8-33 |
| H6024 | 18525 | 8-12 |
| H6024 | 18525 | 8-14 |
| H6024 | 18525 | 8-33 |
| H6024 NH | 28153 | 8-33 |
| H6024NH | 28153 | 8-10 |
| H6024NH* | 28153 | 8-14 |
| H6024NHS | 97693 | 8-10 |

| Description | Order Code | Page Number |
|--------------|------------|-------------|
| H6024NHS | 97693 | 8-33 |
| H6054 | 18534 | 8-12 |
| H6054 | 18534 | 8-14 |
| H6054 | 18534 | 8-33 |
| H6054 NH | 25097 | 8-33 |
| H6054HO | 14752 | 8-33 |
| H6054HO0 | 14752 | 8-14 |
| H6054NH | 25097 | 8-10 |
| H6054NH* | 25097 | 8-14 |
| H6054NHS | 97692 | 8-10 |
| H6054NHS | 97692 | 8-33 |
| H7 NHX/BP2 | 69860 | 8-9 |
| H7-55 | 26374 | 8-29 |
| H7-55 LL | 78640 | 8-29 |
| H7-55 NH | 25160 | 8-29 |
| H7-55 NHS | 66006 | 8-30 |
| H7-55 NHS | 89141 | 8-30 |
| H7-55 NHS | 89235 | 8-30 |
| H7-55/BP | 26374 | 8-12 |
| H7-55/BP | 26374 | 8-14 |
| H7-55LL | 35755 | 8-29 |
| H7-55LL/BP | 78640 | 8-11 |
| H7-55LL/BP | 78640 | 8-13 |
| H7-55NH/BP | 25160 | 8-10 |
| H7-55NH/BP2 | 25095 | 8-10 |
| H7-55NHP | 75821 | 8-30 |
| H7-55NHP/BP2 | 75821 | 8-9 |
| H7-55NHS/BP | 89141 | 8-10 |
| H7-55NHS/BP2 | 66006 | 8-10 |
| H7-55NHX | 69860 | 8-30 |
| H7550 | 43561 | 8-33 |
| H7550-1 | 23541 | 8-33 |
| H7551 | 43564 | 8-33 |
| H7552 | 43567 | 8-33 |
| H7553 | 43570 | 8-33 |
| H7554 | 43574 | 8-33 |
| H7555 | 44642 | 8-33 |
| H7556 | 44924 | 8-33 |
| H7557 | 12720 | 8-33 |
| H7600 | 42841 | 8-33 |
| H7604 | 43576 | 8-14 |
| H7604 | 43576 | 8-33 |
| H7606 | 14616 | 8-33 |
| H7607 | 17672 | 8-33 |
| H7609 | 14617 | 8-33 |
| H7610 | 14618 | 8-33 |
| H7612 | 49695 | 8-14 |
| H7612 | 49695 | 8-33 |
| H7614 | 49731 | 8-33 |
| H7616 | 42838 | 8-33 |
| H7619 | 14619 | 8-33 |
| H7621-1 | 45058 | 8-14 |
| H7621-1 | 45058 | 8-33 |
| H7635 | 43591 | 8-33 |
| H7635X | 18022 | 8-33 |
| H7921-1 | 13426 | 8-14 |
| H7921-1 | 13426 | 8-33 |
| H7935-1 | 47460 | 8-33 |
| H8 | 29047 | 8-30 |
| H8-35W BP | 29047 | 8-12 |
| H9 | 29049 | 8-30 |
| H9-65W BP | 29049 | 8-14 |
| H9-65W BP | 29049 | 8-12 |
| H9405 | 15767 | 8-33 |
| H9406 | 15769 | 8-33 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| H9411 | 15771 | 8-33 |
| H9414 | 15772 | 8-33 |
| H9415 | 16484 | 8-14 |
| H9415 | 16484 | 8-34 |
| H9415A | 17988 | 8-14 |
| H9415A | 17988 | 8-34 |
| H9420 | 16976 | 8-14 |
| H9420 | 16976 | 8-34 |
| H9420 | 16978 | 8-34 |
| H9421 | 16482 | 8-14 |
| H9421 | 16204 | 8-34 |
| H9421 | 16482 | 8-34 |
| HB-12-DR | 64135 | 21-4 |
| HB-12-DR-D | 64136 | 21-4 |
| HB-12-SR | 64131 | 21-4 |
| HB-12-SR-D | 64132 | 21-4 |
| HPL375/C 115V | 88540 | 7-7 |
| HPL375/LL/C 115V | 88539 | 7-7 |
| HPL575/C 115V | 88438 | 7-7 |
| HPL575/C 120V | 88436 | 7-7 |
| HPL575/LL/C 115V | 88435 | 7-7 |
| HPL575/LL/C 120V | 88434 | 7-7 |
| HPL750 | 88474 | 7-7 |
| HPL750/C 115V | 88437 | 7-7 |
| HPL750/LL/C | 88428 | 7-7 |
| HPS1000-4B | 75439 | 18-59 |
| HPS150-3A | 86635 | 18-59 |
| HPS400-3A | 86641 | 18-59 |
| HR100A38 | 12471 | 3-17 |
| HR100DX38 | 22575 | 3-17 |
| HR100DX38/CP | 26437 | 3-17 |
| HR100DX38/MED | 17113 | 3-17 |
| HR175A39 | 24048 | 3-17 |
| HR175A39/CP | 26440 | 3-17 |
| HR175DX39 | 24062 | 3-17 |
| HR175DX39/CP | 26439 | 3-17 |
| HR250A37 | 24068 | 3-17 |
| HR250DX37 | 32127 | 3-17 |
| HR400A33 | 23974 | 3-17 |
| HR400DX33 | 23998 | 3-17 |
| HX5000 | 22959 | 7-8 |
| KPR 113 | 23153 | 8-30 |
| KPR102 | 22961 | 8-30 |
| LED0.5C7/C/CD2 | 13887 | 6-3 |
| LED0.5C7/W/CD2 | 14150 | 6-3 |
| LED10DA19/827 | 69117 | 6-4 |
| LED10DA19/830 | 69119 | 6-4 |
| LED10DA19/840 | 69133 | 6-4 |
| LED10DA19/850 | 69146 | 6-4 |
| LED10DR303/850W | 69107 | 6-5 |
| LED10DR303V/827W | 68160 | 6-5 |
| LED10DR303V/830W | 68161 | 6-5 |
| LED10DR30V/827W | 43234 | 6-5 |
| LED10DR30V/830W | 43237 | 6-5 |
| LED10DR30V/850W | 43241 | 6-5 |
| LED10LS3/828 | 28089 | 6-4 |
| LED10LS3/850 | 32273 | 6-4 |
| LED10RS4/827E26P | 95853 | 20-6 |
| LED10RS4/827E26P | 95853 | 6-8 |
| LED10RS4/827GUP | 95855 | 20-6 |
| LED10RS4/827GUP | 95855 | 6-8 |
| LED10RS4/830E26P | 95854 | 20-6 |
| LED10RS4/830E26P | 95854 | 6-8 |
| LED10RS4/830GUP | 95856 | 20-6 |
| LED10RS4/830GUP | 95856 | 6-8 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| LED10RS4/840E26P | 35365 | 6-8 |
| LED10RS6/827E26P | 85153 | 20-6 |
| LED10RS6/827E26P | 85153 | 6-9 |
| LED10RS6/827GUP | 95851 | 20-6 |
| LED10RS6/827GUP | 95851 | 6-9 |
| LED10RS6/830E26P | 85160 | 20-6 |
| LED10RS6/830E26P | 85160 | 6-9 |
| LED10RS6/830GUP | 95852 | 20-6 |
| LED10RS6/830GUP | 95852 | 6-9 |
| LED10RS6/840E26P | 30367 | 6-9 |
| LED11DA19/5K | 95927 | 6-4 |
| LED11DA19/824 | 29268 | 6-4 |
| LED11DA19/827 | 11328 | 6-4 |
| LED11DA19/830 | 71209 | 6-4 |
| LED11DA19827GU24 | 74357 | 6-4 |
| LED11DAV3/827W | 13791 | 6-4 |
| LED11ET8/G/3/830 | 35783 | 6-10 |
| LED11ET8/G/3/835 | 35784 | 6-10 |
| LED11ET8/G/3/840 | 35788 | 6-10 |
| LED11ET8/G/3/850 | 35789 | 6-10 |
| LED12D38W3827/40 | 92971 | 6-7 |
| LED12D38W3830/25 | 92972 | 6-7 |
| LED12D38W0383040 | 92973 | 6-7 |
| LED12DA21/850FE | 73404 | 6-4 |
| LED12DA21F/830FE | 73384 | 6-4 |
| LED12DP302/FL/TP | 89988 | 6-6 |
| LED12DP303W83035 | 98755 | 6-6 |
| LED12DP30RB82740 | 73583 | 6-6 |
| LED12DP30RW82725 | 42133 | 6-6 |
| LED12DP30RW82740 | 42134 | 6-6 |
| LED12DP30RW83025 | 84384 | 6-6 |
| LED12DP30RW83040 | 42131 | 6-6 |
| LED12DP30RW92725 | 84392 | 6-6 |
| LED12DP30RW92740 | 84395 | 6-6 |
| LED12DP30RW93015 | 84374 | 6-6 |
| LED12DP30RW93025 | 84379 | 6-6 |
| LED12DP30RW93040 | 84380 | 6-6 |
| LED12DP382W82725 | 90132 | 6-7 |
| LED12DP382WFL/TP | 89990 | 6-7 |
| LED12DP38W827/25 | 63323 | 6-7 |
| LED12DP38W927/25 | 63334 | 6-7 |
| LED12DP3L2/FL/TP | 89989 | 6-6 |
| LED12DP3L2FL5KTP | 22233 | 6-6 |
| LED12DP3L3W83035 | 98811 | 6-6 |
| LED12DP3LRW82725 | 42141 | 6-6 |
| LED12DP3LRW82740 | 42144 | 6-6 |
| LED12DP3LRW83025 | 42136 | 6-6 |
| LED12DP3LRW83040 | 42137 | 6-6 |
| LED12DP3LRW92740 | 84407 | 6-6 |
| LED12DP3LRW93025 | 84399 | 6-6 |
| LED12DP3LRW93040 | 84400 | 6-6 |
| LED12ET8/3/830 | 31554 | 6-9 |
| LED12ET8/3/835 | 26544 | 6-9 |
| LED12ET8/3/840 | 26625 | 6-9 |
| LED12ET8/3/850 | 26627 | 6-9 |
| LED12ET8/4/830 | 61218 | 6-9 |
| LED12ET8/4/835 | 61223 | 6-9 |
| LED12ET8/4/840 | 61271 | 6-9 |
| LED12ET8/4/850 | 61327 | 6-9 |
| LED12ET8/4/865 | 61329 | 6-9 |
| LED12ET8/G/4/830 | 43284 | 6-10 |
| LED12ET8/G/4/835 | 43288 | 6-10 |
| LED12ET8/G/4/840 | 43291 | 6-10 |
| LED12ET8/G/4/850 | 43293 | 6-10 |
| LED12G24Q-H/827 | 96799 | 6-8 |

Index (cont.)

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| LED12G24Q-H/830 | 96798 | 6-8 |
| LED12G24Q-H/835 | 96761 | 6-8 |
| LED12G24Q-H/840 | 96769 | 6-8 |
| LED12G24Q-V/827 | 96801 | 6-8 |
| LED12G24Q-V/830 | 96775 | 6-8 |
| LED12G24Q-V/835 | 96689 | 6-8 |
| LED12G24Q-V/840 | 96771 | 6-8 |
| LED12T8/DR/2L | 76289 | 6-11 |
| LED12T8/DR/D2L | 76290 | 6-11 |
| LED12T8/DR/D4L | 76318 | 6-11 |
| LED12T8/G/4/830 | 76194 | 6-11 |
| LED12T8/G/4/835 | 76264 | 6-11 |
| LED12T8/G/4/840 | 76265 | 6-11 |
| LED12T8/G/4/850 | 76271 | 6-11 |
| LED12T8/G/4/865 | 76278 | 6-11 |
| LED13BR40/5K/TP | 20445 | 6-5 |
| LED13DA212/827 | 12422 | 6-4 |
| LED13DBR40/827 | 64176 | 6-5 |
| LED13DBR40/830 | 14708 | 6-5 |
| LED13ET8/U6/830 | 43120 | 6-9 |
| LED13ET8/U6/835 | 43125 | 6-9 |
| LED13ET8/U6/840 | 43129 | 6-9 |
| LED13ET8/U6/850 | 43130 | 6-9 |
| LED13RS6/827E26P | 70120 | 20-6 |
| LED13RS6/827E26P | 70120 | 6-9 |
| LED13RS6/827GUP | 70124 | 20-6 |
| LED13RS6/827GUP | 70124 | 6-9 |
| LED13RS6/830E26P | 70122 | 20-6 |
| LED13RS6/830E26P | 70122 | 6-9 |
| LED13RS6/830GUP | 70127 | 20-6 |
| LED13RS6/830GUP | 70127 | 6-9 |
| LED14/DR/D3L | 28174 | 6-11 |
| LED14DA21/827W | 94936 | 6-4 |
| LED14LS2/828 | 35520 | 6-4 |
| LED14LS2/850 | 35522 | 6-4 |
| LED14T8/U/835 | 28084 | 6-10 |
| LED14T8/U/840 | 28164 | 6-10 |
| LED15DP38W830/40 | 32213 | 6-6 |
| LED15ET8/4/830 | 62399 | 6-9 |
| LED15ET8/4/835 | 62401 | 6-9 |
| LED15ET8/4/840 | 62402 | 6-9 |
| LED15ET8/4/850 | 62409 | 6-9 |
| LED15ET8/4/865 | 62410 | 6-9 |
| LED15ET8/835-V6P | 35896 | 6-10 |
| LED15ET8/840-V6P | 35900 | 6-10 |
| LED15ET8/850-V6P | 35911 | 6-10 |
| LED15ET8/865-V6P | 35913 | 6-10 |
| LED15ET8/G/4/830 | 35790 | 6-9 |
| LED15ET8/G/4/835 | 35791 | 6-9 |
| LED15ET8/G/4/840 | 35793 | 6-9 |
| LED15ET8/G/4/850 | 35797 | 6-9 |
| LED15ET8/G/4/865 | 35798 | 6-10 |
| LED15T5/G/2/830 | 76150 | 6-11 |
| LED15T5/G/2/835 | 76164 | 6-11 |
| LED15T5/G/2/840 | 76129 | 6-11 |
| LED15T5/G/2/850 | 76167 | 6-11 |
| LED15T5/G/2/865 | 76192 | 6-11 |
| LED15T8/4/830 | 38954 | 6-10 |
| LED15T8/4/835 | 38957 | 6-10 |
| LED15T8/4/840 | 38958 | 6-10 |
| LED15T8/4/850 | 38962 | 6-10 |
| LED15T8/4/865 | 38964 | 6-10 |
| LED15T8/DR/D2L | 38974 | 6-11 |
| LED15T8/DR/D4L | 38975 | 6-11 |
| LED15T8/DR/UN/2L | 38970 | 6-11 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| LED15T8/G/4/830 | 38944 | 6-10 |
| LED15T8/G/4/835 | 38945 | 6-10 |
| LED15T8/G/4/840 | 38950 | 6-11 |
| LED15T8/G/4/850 | 38951 | 6-11 |
| LED15T8/G/4/865 | 38952 | 6-11 |
| LED15T8/G/U6/830 | 43131 | 6-11 |
| LED15T8/G/U6/835 | 43135 | 6-11 |
| LED15T8/G/U6/840 | 43143 | 6-11 |
| LED15T8/G/U6/850 | 43145 | 6-11 |
| LED165/M400/740 | 21259 | 6-8 |
| LED16A30/100/5KB | 92118 | 6-4 |
| LED16A30/100/827 | 73376 | 6-4 |
| LED16DA212/827 | 12349 | 6-4 |
| LED16DA212/830 | 12399 | 6-4 |
| LED16DA21827GU24 | 92498 | 6-4 |
| LED16LS2/828 | 35523 | 6-4 |
| LED16LS2/850 | 35524 | 6-4 |
| LED172G11/830/10 | 39073 | 6-8 |
| LED172G11/835/10 | 39074 | 6-8 |
| LED172G11/840/10 | 39075 | 6-8 |
| LED172G11/850/10 | 39076 | 6-8 |
| LED17DA21/5K/BX | 34369 | 6-4 |
| LED17DA21/827 | 16113 | 6-4 |
| LED17DA221XSW | 23006 | 6-4 |
| LED17DP30LW93025 | 20151 | 6-6 |
| LED18D380W382725 | 92950 | 6-7 |
| LED18D380W382740 | 92958 | 6-7 |
| LED18D380W383025 | 92963 | 6-7 |
| LED18D380W383040 | 92967 | 6-7 |
| LED18D380W383525 | 85085 | 6-7 |
| LED18D380W383540 | 87917 | 6-7 |
| LED18D380W384025 | 93171 | 6-7 |
| LED18D380W384040 | 93172 | 6-7 |
| LED18D380W385025 | 65730 | 6-7 |
| LED18D380W385040 | 65731 | 6-7 |
| LED18D38W3830/15 | 92961 | 6-7 |
| LED18D38W3927/25 | 92923 | 6-7 |
| LED18D38W3927/40 | 92926 | 6-7 |
| LED18D38W3930/15 | 92927 | 6-7 |
| LED18D38W3930/25 | 92933 | 6-7 |
| LED18D38W3930/40 | 92934 | 6-7 |
| LED18D38W830/15 | 94909 | 6-7 |
| LED18D38WW930/15 | 31300 | 6-7 |
| LED18D38WW930/25 | 31301 | 6-7 |
| LED18DP38W/FL/TP | 89992 | 6-7 |
| LED18ET8/4/830 | 31550 | 6-9 |
| LED18ET8/4/835 | 93133 | 6-9 |
| LED18ET8/4/840 | 93135 | 6-9 |
| LED18ET8/4/850 | 93140 | 6-9 |
| LED18ET8/G/4/830 | 35767 | 6-9 |
| LED18ET8/G/4/835 | 35768 | 6-9 |
| LED18ET8/G/4/840 | 35769 | 6-9 |
| LED18ET8/G/4/850 | 35772 | 6-9 |
| LED18ET8/G/4/865 | 35773 | 6-9 |
| LED18P30LW83015 | 75089 | 6-6 |
| LED18P30LW83025 | 75091 | 6-6 |
| LED18P30LW93015 | 75065 | 6-6 |
| LED18P30LW93025 | 75078 | 6-6 |
| LED18T8/3/835 | 82343 | 6-10 |
| LED18T8/3/840 | 82345 | 6-10 |
| LED18T8/3/850 | 82346 | 6-10 |
| LED18T8/DR/D2L | 88141 | 6-11 |
| LED18T8/DR/D4L | 88139 | 6-11 |
| LED18T8/DR/UN/2L | 82347 | 6-11 |
| LED18T8/G/3/830 | 38257 | 6-11 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| LED18T8/G/3/835 | 38258 | 6-11 |
| LED18T8/G/3/840 | 38260 | 6-11 |
| LED18T8/G/3/850 | 38261 | 6-11 |
| LED19GX24q-H/827 | 39289 | 6-8 |
| LED19GX24q-H/830 | 39282 | 6-8 |
| LED19GX24q-H/835 | 39276 | 6-8 |
| LED19GX24q-H/840 | 39283 | 6-8 |
| LED19GX24q-V/827 | 39288 | 6-8 |
| LED19GX24q-V/830 | 39277 | 6-8 |
| LED19GX24q-V/835 | 39275 | 6-8 |
| LED19GX24q-V/840 | 39279 | 6-8 |
| LED1GU10/NFL/CD | 73153 | 6-5 |
| LED21T8/4/835 | 94381 | 6-10 |
| LED21T8/4/840 | 94382 | 6-10 |
| LED21T8/4/850 | 94383 | 6-10 |
| LED21T8/4/865 | 26059 | 6-10 |
| LED21T8/DR/1L | 94384 | 6-11 |
| LED21T8/DR/2L | 94385 | 6-11 |
| LED21T8/DR/D2L | 60041 | 6-11 |
| LED21T8/DR/D4L | 62030 | 6-11 |
| LED21T8/DR/VLC2L | 34016 | 6-11 |
| LED21T8/G/4/835 | 62428 | 6-10 |
| LED21T8/G/4/840 | 62485 | 6-10 |
| LED21T8/G/4/850 | 62487 | 6-10 |
| LED21T8/G/4/830US | 91475 | 6-10 |
| LED21T8/G/4/835HL | 62406 | 6-10 |
| LED21T8/G/4/835US | 91496 | 6-10 |
| LED21T8/G/4/840HL | 62407 | 6-10 |
| LED21T8/G/4/840US | 91497 | 6-10 |
| LED21T8/G/4/850HL | 62408 | 6-10 |
| LED21T8/G/4/850US | 91498 | 6-10 |
| LED22A50/150/5KB | 92120 | 6-4 |
| LED22A50/150/827 | 73378 | 6-4 |
| LED26DP385-FL/TP | 68181 | 6-7 |
| LED26DP385830/12 | 68183 | 6-7 |
| LED26DP385830/25 | 68184 | 6-7 |
| LED26DP385830/40 | 68185 | 6-7 |
| LED26DP385835/12 | 33647 | 6-7 |
| LED26DP385835/40 | 70591 | 6-7 |
| LED26DP385840/40 | 68182 | 6-7 |
| LED28P385830/15 | 15139 | 6-7 |
| LED28P385830/25 | 25844 | 6-7 |
| LED28P385830/40 | 25953 | 6-7 |
| LED36T5/G/4/830 | 91973 | 6-11 |
| LED36T5/G/4/835 | 91976 | 6-11 |
| LED36T5/G/4/840 | 91977 | 6-11 |
| LED36T5/G/4/850 | 91997 | 6-11 |
| LED36T5/G/4/865 | 92006 | 6-11 |
| LED36T8/DR/D2L | 63126 | 6-11 |
| LED36T8/DR/D4L | 92013 | 6-11 |
| LED36T8/G/8/830 | 62326 | 6-10 |
| LED36T8/G/8/835 | 62327 | 6-10 |
| LED36T8/G/8/840 | 62329 | 6-10 |
| LED36T8/G/8/850 | 62349 | 6-10 |
| LED3A15BLUE | 92125 | 6-3 |
| LED3A15GREEN | 92126 | 6-3 |
| LED3A15ORNG | 23054 | 6-3 |
| LED3A15PINK | 92132 | 6-3 |
| LED3A15RED | 92122 | 6-3 |
| LED3DCAC-C/TP | 68166 | 6-3 |
| LED3DCAC-V | 75915 | 6-3 |
| LED3DCAM-C/TP | 68168 | 6-3 |
| LED3DCAM-V | 75914 | 6-3 |
| LED3DST19-V | 76018 | 6-3 |
| LED4.5DA15C-FRIG | 83645 | 6-3 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| LED4D/GU10/NFLTP | 89020 | 6-5 |
| LED4D/GU1083035 | 37114 | 6-5 |
| LED4D/P16/NFLTP | 26383 | 6-5 |
| LED4DA15-C3/827 | 34051 | 6-3 |
| LED4DA15-W3/827 | 34038 | 6-3 |
| LED4DCAC-C3/827 | 21231 | 6-3 |
| LED4DCAC-C3/850 | 69109 | 6-3 |
| LED4DCAC-F/TP | 68165 | 6-3 |
| LED4DCACCF/824 | 75553 | 6-3 |
| LED4DCAM-C3/827 | 21250 | 6-3 |
| LED4DCAM-C3/850 | 69111 | 6-3 |
| LED4DCAM-F/TP | 68167 | 6-3 |
| LED4DCAMCF/824 | 75554 | 6-3 |
| LED4DG16C-C/TP | 68170 | 6-3 |
| LED4DG16C-W/TP | 68169 | 6-3 |
| LED4DG25M-C/TP | 68172 | 6-3 |
| LED4DG25M-W/TP | 68171 | 6-3 |
| LED4GU10/NFL/TP | 75865 | 6-5 |
| LED5.5DMR1682735 | 35540 | 6-5 |
| LED5.5DMR1683035 | 35535 | 6-5 |
| LED5.5DMR1684035 | 35542 | 6-5 |
| LED5.5LS3/827 | 66256 | 6-4 |
| LED5.5LS3/850 | 75177 | 6-4 |
| LED5DG25-W3/827 | 21253 | 6-3 |
| LED5DST19-V-OT2P | 33025 | 6-3 |
| LED5GU10/NFL/TP | 62909 | 6-5 |
| LED60/2M175/740 | 43263 | 6-8 |
| LED60/2M175/750 | 88107 | 6-8 |
| LED6D/GU10/NFL/TP | 26346 | 6-5 |
| LED6D/P16/NFLTP | 26384 | 6-5 |
| LED6DA19/827 | 69115 | 6-3 |
| LED6DA19/830 | 69118 | 6-3 |
| LED6DA19/840 | 69132 | 6-3 |
| LED6DA19/850 | 69144 | 6-3 |
| LED6LS3/828 | 35517 | 6-4 |
| LED6LS3/850 | 35519 | 6-4 |
| LED7DA19/824 | 34238 | 6-3 |
| LED7DA19/827 | 11332 | 6-3 |
| LED7DA19/830 | 71208 | 6-3 |
| LED7DAV3/5K | 95928 | 6-3 |
| LED7DAV3/5K/ | 89944 | 6-3 |
| LED7DAV3/827W | 14063 | 6-3 |
| LED7DCAC-C3/827 | 21233 | 6-3 |
| LED7DCAM-C3/827 | 21251 | 6-3 |
| LED7DG25-W3/827 | 21255 | 6-3 |
| LED7DMR16D830/25 | 69920 | 6-5 |
| LED7DMR16S830/15 | 93412 | 6-5 |
| LED7DMR16S840/15 | 93433 | 6-5 |
| LED7DMRX15827/15 | 35529 | 6-5 |
| LED7D0202NFL-OD | 92163 | 6-5 |
| LED7DP202NFL5KOD | 21282 | 6-5 |
| LED7DP203B827/20 | 93349 | 6-6 |
| LED7DP203B827/35 | 93354 | 6-6 |
| LED7DP203B830/20 | 93327 | 6-5 |
| LED7DP203NFL5KTP | 92121 | 6-5 |
| LED7DP203W/NFLTP | 74374 | 6-5 |
| LED7DP203W827/20 | 93360 | 6-6 |
| LED7DP203W827/35 | 93362 | 6-6 |
| LED7DP203W830/20 | 93347 | 6-5 |
| LED7DP203W830/35 | 93348 | 6-6 |
| LED7DR20/827 | 38268 | 6-4 |
| LED7DR20/830 | 43233 | 6-4 |
| LED7DR20/850 | 38273 | 6-4 |
| LED7MRX16R930/10 | 21359 | 6-5 |
| LED7XDMR16-28325 | 35543 | 6-5 |

| Description | Order Code | Page Number |
|---------------------|------------|-------------|
| LED7XDMR16-28335 | 35544 | 6-5 |
| LED7XDMR16-V2725 | 39542 | 6-5 |
| LED7XDMR16-V2735 | 39567 | 6-5 |
| LED7XDMR16D/TP | 89947 | 6-5 |
| LED7XDMRX1682725 | 35206 | 6-5 |
| LED7XDMRX1682735 | 35214 | 6-5 |
| LED7XDMRX1683025 | 35196 | 6-5 |
| LED7XDMRX1683025 | 35195 | 6-5 |
| LED80/2M250/740 | 43258 | 6-8 |
| LED80/2M250/750 | 88099 | 6-8 |
| LED8ET8/G/2/830 | 35775 | 6-10 |
| LED8ET8/G/2/835 | 35776 | 6-10 |
| LED8ET8/G/2/840 | 35778 | 6-10 |
| LED8ET8/G/2/850 | 35779 | 6-10 |
| LED9ET8/2/830 | 31557 | 6-9 |
| LED9ET8/2/835 | 26635 | 6-9 |
| LED9ET8/2/840 | 26648 | 6-9 |
| LED9ET8/2/850 | 26676 | 6-9 |
| LED9LS3/827 | 75184 | 6-4 |
| LED9LS3/850 | 75588 | 6-4 |
| LED9T8/2/835 | 65706 | 6-10 |
| LED9T8/2/840 | 65707 | 6-10 |
| LED9T8/2/850 | 65711 | 6-10 |
| LED9T8/2/865 | 92997 | 6-10 |
| LED9T8/DR/UN/2L | 93100 | 6-11 |
| LED9T8/G/2/830 | 38933 | 6-11 |
| LED9T8/G/2/835 | 38935 | 6-11 |
| LED9T8/G/2/840 | 38936 | 6-11 |
| LED9T8/G/2/850 | 38939 | 6-11 |
| LED9T8/G/2/865 | 38943 | 6-11 |
| LU100/CP | 26427 | 3-16 |
| LU100/D/H/ECO | 72606 | 3-16 |
| LU100/D/MED/ECO | 13251 | 3-16 |
| LU100/ECO/NC | 14673 | 3-17 |
| LU100/H/ECO | 85369 | 3-16 |
| LU100/MED/CP | 26423 | 3-16 |
| LU100/MED/ECO | 13250 | 3-16 |
| LU100/SBY/XL/ECO | 61368 | 3-16 |
| LU1000/ECO | 44058 | 3-16 |
| LU1000/SBY/XL | 27185 | 3-17 |
| LU150/100ED28 | 44243 | 3-15 |
| LU150/55/CP | 26429 | 3-16 |
| LU150/55/D/H/ECO | 85380 | 3-16 |
| LU150/55/ECO/NC | 40390 | 3-17 |
| LU150/55/H/ECO | 85371 | 3-16 |
| LU150/55/SBY/XL/ECO | 61369 | 3-16 |
| LU150/D/MED/ECO | 13253 | 3-16 |
| LU150/MED/CP | 26424 | 3-16 |
| LU150/MED/ECO | 13252 | 3-16 |
| LU200/ECO/NC | 45059 | 3-17 |
| LU200/H/ECO | 85372 | 3-16 |
| LU200/SBY/XL/ECO | 61370 | 3-16 |
| LU250/CP | 26430 | 3-16 |
| LU250/D/H/ECO | 85381 | 3-16 |
| LU250/ECO/NC | 14674 | 3-17 |
| LU250/H/ECO | 85377 | 3-16 |
| LU250/SBY/XL/ECO | 61371 | 3-17 |
| LU310/H/ECO | 76996 | 3-16 |
| LU35/MED/CP | 26420 | 3-15 |
| LU35/MED/ECO | 11668 | 3-15 |
| LU400/CP | 26431 | 3-16 |
| LU400/D/H/ECO | 76998 | 3-16 |
| LU400/ECO/NC | 14675 | 3-17 |
| LU400/H/ECO | 85379 | 3-16 |
| LU400/SBY/XL | 19272 | 3-16 |

| Description | Order Code | Page Number |
|--------------------|------------|-------------|
| LU400/SBY/XL/ECO | 61372 | 3-17 |
| LU400/XOPSL/T/40 | 41845 | 3-17 |
| LU50/D/H/E/ECO | 45006 | 3-15 |
| LU50/D/MED/ECO | 11347 | 3-15 |
| LU50/H/ECO | 44975 | 3-15 |
| LU50/MED/CP | 26421 | 3-15 |
| LU50/MED/ECO | 11345 | 3-15 |
| LU600/T | 27187 | 3-15 |
| LU600/XOPSL/T/40 | 41850 | 3-17 |
| LU70/CP | 26426 | 3-16 |
| LU70/D/H/ECO | 72605 | 3-16 |
| LU70/D/MED/ECO | 11340 | 3-16 |
| LU70/ECO/NC | 14672 | 3-17 |
| LU70/H/ECO | 85368 | 3-16 |
| LU70/MED/CP | 26422 | 3-16 |
| LU70/MED/ECO | 11339 | 3-16 |
| LU70/SBY/XL/ECO | 61367 | 3-16 |
| LU750 | 14682 | 3-15 |
| LU750/400PSL/T40 | 76134 | 3-17 |
| LU750/XOPSL/T/40 | 41856 | 3-17 |
| M1000/827/W/G4 | 19192 | 6-12 |
| M1000/830/W/G4 | 19193 | 6-12 |
| M1000/835/W/G4 | 19195 | 6-12 |
| M1000/840/W/G4 | 19197 | 6-12 |
| M1000/930/W/G4 | 19196 | 6-12 |
| M1500/827/W/G4 | 19198 | 6-12 |
| M1500/830/W/G4 | 19200 | 6-12 |
| M1500/835/W/G4 | 19201 | 6-12 |
| M1500/840/W/G4 | 19207 | 6-12 |
| M1500/930/W/G4 | 19202 | 6-12 |
| M2000/827/W/G4 | 19209 | 6-12 |
| M2000/830/W/G4 | 19210 | 6-12 |
| M2000/835/W/G4 | 19211 | 6-12 |
| M2000/840/W/G4 | 19215 | 6-12 |
| M2000/930/W/G4 | 19214 | 6-12 |
| M3000/827/W/G4 | 19216 | 6-12 |
| M3000/830/W/G4 | 19218 | 6-12 |
| M3000/835/W/G4 | 19220 | 6-12 |
| M3000/840/W/G4 | 19225 | 6-12 |
| M3000/930/W/G4 | 19224 | 6-12 |
| M4500/827/W/G4 | 19226 | 6-12 |
| M4500/830/W/G4 | 19230 | 6-12 |
| M4500/835/W/G4 | 19231 | 6-12 |
| M4500/840/W/G4 | 19337 | 6-12 |
| M4500/930/W/G4 | 19307 | 6-12 |
| MACC07HOLDBERB | 78835 | 6-13 |
| MACC07HOLDBERW | 61450 | 6-13 |
| MH100-3A, MH350-1A | 75440 | 18-59 |
| MH750-1B | 75441 | 18-59 |
| MHOLDERB/PVC600 | 66232 | 6-13 |
| MHOLDERW/PVC600 | 66233 | 6-13 |
| MP30/827/W/N | 98471 | 6-12 |
| MP30/830/W/N | 98472 | 6-12 |
| MP30/840/W/N | 98474 | 6-12 |
| MP30/930/W/N | 98473 | 6-12 |
| MPR100/VBU/HO/O | 41433 | 3-15 |
| MPR175/C/VBU/O | 11649 | 3-14 |
| MPR175/VBU/O | 49470 | 3-14 |
| MPR175/VBU/PA/O | 61325 | 3-14 |
| MPR250/C/VBU/O | 11650 | 3-14 |
| MPR250/VBU/O | 49471 | 3-14 |
| MPR250/VBU/PA/O | 61326 | 3-14 |
| MPR320C/PA/ED28 | 19609 | 3-15 |
| MPR320/VBU/XHOPA | 46275 | 3-15 |
| MPR320C/VBUXHOPA | 46276 | 3-15 |

Index (cont.)

| Description | Order Code | Page Number |
|--------------------|------------|-------------|
| MPR350/C/VBU/PA | 48824 | 3-15 |
| MPR350/VBU/PA | 10202 | 3-15 |
| MPR350C/VBU3K/PA | 48825 | 3-15 |
| MPR360CVBUXMH/O | 11685 | 3-15 |
| MPR360VBUWM/HO/O | 40056 | 3-15 |
| MPR400/VBU/HO/O | 18708 | 3-15 |
| MPR400/VBU/XHOPA | 46273 | 3-15 |
| MPR400C/VBU/HO/O | 13582 | 3-15 |
| MPR400C/VBUXHOPA | 46274 | 3-15 |
| MVR100/C/U/MED | 12653 | 3-12 |
| MVR100/U/MED | 12652 | 3-12 |
| MVR1000/C/U | 41827 | 3-13 |
| MVR1000/U | 41826 | 3-13 |
| MVR1000/U/BT37 | 18205 | 3-13 |
| MVR1000/VBU/HO | 44835 | 3-14 |
| MVR1000U/BT37/PA | 10389 | 3-13 |
| MVR150/C/U/MED | 12604 | 3-12 |
| MVR150/C/U/WM | 13490 | 3-13 |
| MVR150/U/MED | 12598 | 3-12 |
| MVR150/U/WM | 13481 | 3-13 |
| MVR1500/U/SPORTS | 47326 | 3-14 |
| MVR1650/HOR | 25532 | 3-14 |
| MVR175/C/HOR | 18105 | 3-13 |
| MVR175/C/U | 47761 | 3-13 |
| MVR175/C/U/MED | 19976 | 3-13 |
| MVR175C/VBU/PA | 12633 | 3-12 |
| MVR175CVBUMEDPA | 12637 | 3-12 |
| MVR175/PAR38/FL1 | 25218 | 3-13 |
| MVR175/SP30/U | 17634 | 3-13 |
| MVR175/U | 47760 | 3-13 |
| MVR175/U/CP | 26433 | 3-13 |
| MVR175/U/MED | 18902 | 3-13 |
| MVR175/U/MED/CP | 26432 | 3-13 |
| MVR175/VBU/MEDPA | 12636 | 3-12 |
| MVR175/VBU/PA | 12622 | 3-12 |
| MVR250/C/HOR | 18103 | 3-14 |
| MVR250/C/U | 42731 | 3-13 |
| MVR250C/VBU/PA | 26319 | 3-12 |
| MVR250C/VBU/R | 12769 | 3-15 |
| MVR250/HOR | 18101 | 3-14 |
| MVR250/HOR/PA | 72882 | 3-12 |
| MVR250/SP30/U | 17633 | 3-13 |
| MVR250/U | 42729 | 3-13 |
| MVR250/U/CP | 26434 | 3-13 |
| MVR250/U/PA | 78665 | 3-12 |
| MVR250/VBU/PA | 26317 | 3-12 |
| MVR250/VBU/R | 12762 | 3-15 |
| MVR320C/VBU/XHO/PA | 45669 | 3-12 |
| MVR320C/VBUHOPA | 27502 | 3-12 |
| MVR320/HOR/PA | 72884 | 3-12 |
| MVR320/VBU/HO/PA | 27501 | 3-12 |
| MVR320VBU/XHO/PA | 45666 | 3-12 |
| MVR350CVBUXHOPAE | 23738 | 3-12 |
| MVR350VBUXHOPA/E | 23729 | 3-12 |
| MVR360/U/WM/HO | 13495 | 3-13 |
| MVR360C/VBUWMXHO | 40055 | 3-14 |
| MVR360VBU/WM/XHO | 40053 | 3-14 |
| MVR400C/HOR/MOG | 26219 | 3-14 |
| MVR400/C/U | 43829 | 3-13 |
| MVR400C/U/ED28 | 19979 | 3-13 |
| MVR400C/VBU/R | 12772 | 3-15 |
| MVR400C/VBU/XHO | 13924 | 3-14 |
| MVR400CVBUXHOPA | 12644 | 3-12 |
| MVR400/HOR/BT28 | 40201 | 3-14 |
| MVR400/HOR/ED28/PA | 72885 | 3-13 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| MVR400/HOR/MOG | 26218 | 3-14 |
| MVR400/HOR/PA | 72886 | 3-12 |
| MVR400/SP30/U | 17632 | 3-13 |
| MVR400/U | 43828 | 3-13 |
| MVR400/U/CP | 26435 | 3-13 |
| MVR400/U/ED28 | 18904 | 3-13 |
| MVR400/U/ED28/R | 26851 | 3-15 |
| MVR400/U/PA | 78666 | 3-12 |
| MVR400/VBU/HO | 49657 | 3-14 |
| MVR400/VBU/HO/PA | 45664 | 3-12 |
| MVR400/VBU/R | 12770 | 3-15 |
| MVR400/VBU/XHO | 13923 | 3-14 |
| MVR400/VBU/XHOPA | 12642 | 3-12 |
| MVR400/VBUED28HO | 40335 | 3-14 |
| MVR400/VBUED28PA | 46271 | 3-13 |
| MVR400CVBUED28PA | 46272 | 3-13 |
| MVR400SP30VBU/HO | 20931 | 3-14 |
| MVR400VBD/XHO/PA | 46632 | 3-12 |
| MVR70C/U/MED | 12594 | 3-12 |
| MVR70/U/MED | 12590 | 3-12 |
| MVR750C/VBU/PA | 45560 | 3-13 |
| MVR750/VBU/PA | 27219 | 3-13 |
| MXR100C/U/MED | 18679 | 3-12 |
| MXR100C/U/MED/O | 12579 | 3-14 |
| MXR100/U/MED | 18680 | 3-12 |
| MXR100/U/MED/O | 12381 | 3-14 |
| MXR150C/U/MED | 22936 | 3-12 |
| MXR150C/U/MED/O | 45688 | 3-14 |
| MXR150/U/MED | 22935 | 3-12 |
| MXR150/U/MED/O | 45683 | 3-14 |
| MXR175C/VBU/PA | 11185 | 3-12 |
| MXR50C/U/MED | 10364 | 3-12 |
| MXR50C/U/MED/O | 45671 | 3-14 |
| MXR50/U/MED | 10361 | 3-12 |
| MXR50/U/MED/O | 45670 | 3-14 |
| MXR70C/U/MED | 22162 | 3-12 |
| MXR70C/U/MED/O | 12577 | 3-14 |
| MXR70/U/MED | 22158 | 3-12 |
| MXR70/U/MED/O | 12377 | 3-14 |
| NH LED 200 | 69822 | 8-13 |
| NH LED 200 RECT | 69822 | 8-9 |
| NH LED 4.5" RND | 69823 | 8-13 |
| NH LED 4.5" RND | 69823 | 8-9 |
| NH LED 7" RND | 69821 | 8-13 |
| NH LED 7" RND | 69821 | 8-9 |
| OP10-45/WFL100B | 98491 | 6-13 |
| OP10-45/WFL100W | 98485 | 6-13 |
| OP10/15/WFL/100W | 98483 | 6-13 |
| OP1000/1500/FL/B | 65294 | 6-13 |
| OP3000/WFL/B | | |
| OP1000/1500/FL/W | 97208 | 6-13 |
| OP3000/WFL/W | | |
| OP1000/1500/WFL | 97207 | 6-13 |
| OP1000/1500/WFL | 97206 | 6-13 |
| OP1000/1500/WFLB | 65295 | 6-13 |
| OP1000/1500WFLB | 65296 | 6-13 |
| OP1000/SP/W | 97204 | 6-13 |
| OP10001500FL100B | 98486 | 6-13 |
| OP10001500FL100W | 98480 | 6-13 |
| OP10001500WFL50B | 99996 | 6-13 |
| OP10001500WFL50W | 99995 | 6-13 |
| OP1500/SP/W | 97205 | 6-13 |
| OP20-45/WFL/100B | 98490 | 6-13 |
| OP20-45/WFL/100W | 98484 | 6-13 |
| OP2000/3000/FL | 64996 | 6-13 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| OP2000/3000/FL/B | 65297 | 6-13 |
| OP2000/3000/WFL | 64994 | 6-13 |
| OP2000/3000WFLB | 65301 | 6-13 |
| OP2000/FL/100/B | 98487 | 6-13 |
| OP2000/FL/100/W | 98481 | 6-13 |
| OP2000/WFL | 64995 | 6-13 |
| OP2000/WFL/B | 65298 | 6-13 |
| OP30/SP/100MM/B | 98476 | 6-13 |
| OP30/SP/100MM/W | 98478 | 6-13 |
| OP30/SP/50MM/B | 94638 | 6-13 |
| OP30/SP/50MM/W | 94637 | 6-13 |
| OP30/SP/75MM/B | 98475 | 6-13 |
| OP30/SP/75MM/G2B | 94636 | 6-13 |
| OP30/SP/75MM/G2W | 94635 | 6-13 |
| OP30/SP/75MM/W | 98477 | 6-13 |
| OP30/SP100MM/G2B | 94634 | 6-13 |
| OP30/SP100MM/G2W | 94633 | 6-13 |
| OP30004500FL100B | 98488 | 6-13 |
| OP30004500FL100W | 98482 | 6-13 |
| P21/4W | 27561 | 8-30 |
| P21/5W | 23303 | 8-30 |
| P21/5W LL | 21274 | 8-30 |
| P21/5W NH | 89246 | 8-30 |
| P21/5W/BP2 | 23303 | 8-16 |
| P21/5WLL | 67894 | 8-30 |
| P21W | 23306 | 8-30 |
| P21W 24V | 40778 | 8-30 |
| P21W LL | 20695 | 8-30 |
| P21W LL | 67896 | 8-30 |
| P21W NH | 89247 | 8-30 |
| P21W/BP2 | 23306 | 8-16 |
| PC168 | 27222 | 8-30 |
| PC194 | 27221 | 8-30 |
| PCD-IN-SA | 65368 | 21-4 |
| PLK 1 UNIT | 44848 | 1-19 |
| PR12 | 25252 | 8-30 |
| PR13 | 12681 | 8-30 |
| PR18 | 25289 | 8-30 |
| PR2 | 12675 | 8-30 |
| PR3 | 12676 | 8-30 |
| PR4 | 12677 | 8-30 |
| PR6 | 25222 | 8-30 |
| PR7 | 25235 | 8-30 |
| PY21W | 41370 | 8-30 |
| Q1000PAR64/WFL | 43499 | 7-8 |
| Q1000PAR64MFL | 43498 | 2-13 |
| Q1000PAR64MFL | 43498 | 7-8 |
| Q1000PAR64NSP | 43497 | 2-13 |
| Q1000PAR64NSP | 43497 | 7-8 |
| Q1000PAR64WFL | 43499 | 2-13 |
| Q1000T3/CL-6PK | 43711 | 2-12 |
| Q1000T3/CL-6PK | 43712 | 2-12 |
| Q100CL/DC | 15508 | 2-11 |
| Q100CL/DC/2V | 44386 | 2-11 |
| Q100CL/MC | 15507 | 2-13 |
| Q100CL/MC/2V | 44385 | 2-13 |
| Q100CL/MC/CD 5PK | 19383 | 2-13 |
| Q100DC | 16451 | 2-11 |
| Q100G8/SCD | 97667 | 2-11 |
| Q100MC | 16452 | 2-13 |
| Q100T3/12V/CL | 34676 | 2-11 |
| Q100T3/24V/CL | 34663 | 2-11 |
| Q100T3/CL/CD 5PK | 22489 | 2-12 |
| Q100T3/SCD-5PK | 73286 | 2-12 |
| Q10T3/CL | 34674 | 2-10 |

| Description | Order Code | Page Number |
|--------------------|------------|-------------|
| Q10T3/CL/SCD-5PK | 97668 | 2-10 |
| Q12MT26/4CL | 48770 | 7-8 |
| Q12MT26/4CL | 48771 | 7-8 |
| Q12MT26/4CL | 48779 | 7-8 |
| Q1500T3/CL | 23830 | 2-12 |
| Q1500T3/CL | 23832 | 2-12 |
| Q1500T3/CL-12PK | 23826 | 2-12 |
| Q1500T3/CL-12PK | 23828 | 2-12 |
| Q150CL/DC | 43693 | 2-11 |
| Q150CL/DC/2V | 44384 | 2-11 |
| Q150CL/MC | 43694 | 2-13 |
| Q150CL/MC/CD 5PK | 19386 | 2-13 |
| Q150DC | 44653 | 2-11 |
| Q150MC | 44654 | 2-13 |
| Q150T3/117/CL/CD | 27449 | 2-12 |
| Q150T3/CL/CD 5PK | 19378 | 2-12 |
| Q150T3/HD/SCD2-5PK | 73287 | 2-12 |
| Q200T4/CL | 40702 | 2-13 |
| Q20A/PAR56/1/C | 15485 | 2-14 |
| Q20A/PAR56/2 | 32861 | 2-14 |
| Q20A/PAR56/3 | 23863 | 2-14 |
| Q20A/PAR56/C | 15482 | 2-14 |
| Q20GU10/FL/CD | 16753 | 2-10 |
| Q20MR11/NFL30 | 30773 | 2-10 |
| Q20MR16/C/NSP15 | 20815 | 2-9 |
| Q20MR16/C/VNSP7 | 20816 | 2-9 |
| Q20MR16/FL | 25480 | 2-10 |
| Q20MR16/FL-PQ3/6 | 85289 | 2-10 |
| Q20MR16/LAND-CD | 71485 | 2-8 |
| Q20MR16/SP | 25481 | 2-10 |
| Q20MR16/SP-PQ3/6 | 85290 | 2-10 |
| Q20MR16C/CG15ESX | 20858 | 2-9 |
| Q20MR16C/CG40BAB | 20857 | 2-9 |
| Q20MR16C/FL40 | 20814 | 2-9 |
| Q20MR16CGFLCD-BA | 81763 | 2-10 |
| Q20MR16CGSPCD-BA | 81765 | 2-10 |
| Q20MR16HIR/CCG10 | 77900 | 2-9 |
| Q20MR16HIR/CCG24 | 77901 | 2-9 |
| Q20MR16HIR/CCG35 | 77902 | 2-9 |
| Q20T2.5/12V/CL | 34715 | 2-10 |
| Q20T3/CL/SCD-5PK | 97669 | 2-10 |
| Q20T3/LAND-CD2 | 71495 | 2-8 |
| Q24MT32/4CL | 48776 | 7-8 |
| Q24MT32/4CL | 48777 | 7-8 |
| Q250CL/DC | 43697 | 2-12 |
| Q250CL/DC | 43698 | 2-12 |
| Q250CL/MC | 43699 | 2-13 |
| Q250CL/MC | 43700 | 2-13 |
| Q250DC | 43701 | 2-11 |
| Q250DC | 43702 | 2-11 |
| Q250MC | 43695 | 2-13 |
| Q250MC | 43696 | 2-13 |
| Q250PAR/FL30 | 23718 | 2-5 |
| Q250PAR/SP10 | 23719 | 2-5 |
| Q250T3/CL-6PK | 22865 | 2-12 |
| Q250T3/CL/CD 5PK | 22121 | 2-12 |
| Q25G8/SCD2 | 97664 | 2-11 |
| Q25G9/CD | 16754 | 2-11 |
| Q25G9/F/CD | 81300 | 2-11 |
| Q300T3/CL | 43703 | 7-7 |
| Q300T3/CL-6PK | 43703 | 2-12 |
| Q300T3/CL/CD 5PK | 19379 | 2-12 |
| Q300T3/HD/SCD2 | 97673 | 2-12 |
| Q300T3CL/CD2-5PK | 27447 | 2-12 |
| Q350T3/CL/HIR | 13894 | 2-11 |

| Description | Order Code | Page Number |
|-------------------|------------|-------------|
| Q35G8/CD2 | 48428 | 2-11 |
| Q35GU10/FL/CD | 16752 | 2-10 |
| Q35MR11/CG12 24 | 41483 | 2-10 |
| Q35MR11NFL30(FTH) | 30890 | 2-10 |
| Q35MR11SP20(FTF) | 30774 | 2-10 |
| Q35MR16/C/CG12 | 20864 | 2-9 |
| Q35MR16/C/FL40 | 20825 | 2-9 |
| Q35MR16/C/SP20 | 20826 | 2-9 |
| Q35MR16/CCG40 | 41487 | 2-9 |
| Q35MR16C/CG20 | 20860 | 2-9 |
| Q35MR16C/CG40 | 20859 | 2-9 |
| Q35MR16CGFLCD-BA | 81768 | 2-10 |
| Q35MR16HIR/CCG10 | 77904 | 2-9 |
| Q35MR16HIR/CCG24 | 77905 | 2-9 |
| Q35MR16HIR/CCG35 | 77906 | 2-9 |
| Q35MR16HIR/CCG55 | 79233 | 2-9 |
| Q35T3/12V/CL | 34708 | 2-11 |
| Q35T3/CL/CD 5PK | 48503 | 2-11 |
| Q400CL/MC | 43707 | 2-13 |
| Q400MC | 43706 | 2-13 |
| Q40G9/CD | 16755 | 2-11 |
| Q40G9/F/CD | 81301 | 2-11 |
| Q42MR16/C/VNSP9 | 20830 | 2-9 |
| Q4509 | 22109 | 8-34 |
| Q4554 | 37706 | 8-34 |
| Q4559 | 40579 | 8-34 |
| Q4559X | 42552 | 8-34 |
| Q4566 | 41097 | 8-34 |
| Q4597 | 37372 | 8-34 |
| Q45MR16HIR/CCG10 | 77907 | 2-9 |
| Q45MR16HIR/CCG24 | 77908 | 2-9 |
| Q45MR16HIR/CCG35 | 77909 | 2-9 |
| Q45T4/CL/DCR | 14473 | 2-13 |
| Q4631 | 34537 | 8-34 |
| Q4632 | 39112 | 8-34 |
| Q4681 | 36271 | 8-34 |
| Q500CL/DC | 43710 | 2-12 |
| Q500CL/MC (EVR) | 47950 | 2-13 |
| Q500DC | 43709 | 2-12 |
| Q500PAR56MFL | 43495 | 2-13 |
| Q500PAR56MFL | 43495 | 7-8 |
| Q500PAR56NSP | 43494 | 2-13 |
| Q500PAR56NSP | 43494 | 7-8 |
| Q500PAR56WFL | 43496 | 2-13 |
| Q500PAR56WFL | 43496 | 7-8 |
| Q500T3/CL | 23731 | 2-12 |
| Q500T3/CL | 23733 | 2-12 |
| Q500T3/CL | 23731 | 7-7 |
| Q500T3/CL | 23733 | 7-7 |
| Q500T3/CL/6 | 23744 | 7-7 |
| Q500T3/CL/6-12PK | 23744 | 2-12 |
| Q500T3/CL/CD 5PK | 19382 | 2-12 |
| Q500T3/HD/SCD2 | 97674 | 2-12 |
| Q500T3CL/CD2-5PK | 27448 | 2-12 |
| Q500T8/1CL | 88616 | 2-13 |
| Q50G8/CD | 21941 | 2-11 |
| Q50G8/SCD | 97665 | 2-11 |
| Q50G8/SCD2-PK5 | 72868 | 2-11 |
| Q50GU10/FL/CD | 16751 | 2-10 |
| Q50GU10FL/RVL-CD | 82143 | 2-10 |
| Q50MR16/C/CG15 | 41488 | 2-9 |
| Q50MR16/C/CG40 | 41489 | 2-9 |
| Q50MR16/C/FL40 | 20833 | 2-9 |
| Q50MR16C/NFL25 | 20835 | 2-9 |
| Q50MR16C/NSP15 | 20839 | 2-9 |

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| Q50MR16/C/WFL55 | 20832 | 2-9 |
| Q50MR16/FL | 25482 | 2-10 |
| Q50MR16/FL-PQ3/6 | 85296 | 2-10 |
| Q50MR16/SP | 25483 | 2-10 |
| Q50MR16/SP-PQ3/6 | 85297 | 2-10 |
| Q50MR16C/CG15 | 20872 | 2-9 |
| Q50MR16C/CG25 | 20871 | 2-9 |
| Q50MR16C/CG40 | 20867 | 2-9 |
| Q50MR16C/CG55 | 20865 | 2-9 |
| Q50MR16C/NFL30 | 20834 | 2-9 |
| Q50MR16CGFLCD-BA | 81770 | 2-10 |
| Q50MR16CGSPCD-BA | 81771 | 2-10 |
| Q50MR16FCCGRV-CD | 82110 | 2-10 |
| Q50MR16SCGRV-CD | 82111 | 2-10 |
| Q50T3/12V/CL | 34702 | 2-11 |
| Q50T3/CL/SCD-5PK | 97670 | 2-11 |
| Q50T3/LAND-CD2 | 71496 | 2-8 |
| Q5551 | 41452 | 8-34 |
| Q5559 | 16784 | 8-34 |
| Q5T3/CL | 42959 | 2-10 |
| Q6.6A PAR56/2 | 38271 | 2-14 |
| Q6.6A PAR56/3 | 33279 | 2-14 |
| Q6.6A/PAR 64/2P | 13224 | 2-14 |
| Q6.6A100PK30d-m | 80584 | 2-13 |
| Q6.6A200PK30d-f | 80590 | 2-13 |
| Q6.6A200PK30d-m | 80586 | 2-13 |
| Q6/6A/PAR56/4 | 18309 | 2-14 |
| Q6/6A/T4/5CL | 23857 | 2-13 |
| Q6/6AT4/DCR | 23860 | 2-14 |
| Q60G9/CD | 16756 | 2-11 |
| Q60G9/F/CD | 81468 | 2-11 |
| Q71MR16/C/CG25 | 20874 | 2-9 |
| Q71MR16/C/CG40 | 20873 | 2-9 |
| Q71MR16/C/FL40 | 20840 | 2-9 |
| Q71MR16C/NFL25 | 20841 | 2-9 |
| Q71MR16C/NSP15 | 20843 | 2-9 |
| Q71MR16C/CG15 | 20876 | 2-9 |
| Q7558 | 22227 | 8-34 |
| Q7558 | 29130 | 8-34 |
| Q7559 | 28113 | 8-34 |
| Q7560 | 28111 | 8-34 |
| Q7561 | 28874 | 8-34 |
| Q75CL/MC/CD | 12715 | 2-13 |
| Q75G8/CD | 47801 | 2-11 |
| Q75G8/SCD | 97666 | 2-11 |
| Q75G9/CD | 16759 | 2-11 |
| Q75G9/F/CD | 81469 | 2-11 |
| Q75T4/CL/CD 5PK | 19377 | 2-11 |
| QH1000T3/CL | 22355 | 2-14 |
| QH1000T3/CL | 22357 | 2-14 |
| QH1200T3/CL | 22531 | 2-14 |
| QH1200T3/CL/HT | 22532 | 2-14 |
| QH1600T3/CL | 22686 | 2-14 |
| QH1600T3/CL | 22688 | 2-14 |
| QH1600T3/CL | 22695 | 2-14 |
| QH1600T3/CL/7 | 22691 | 2-14 |
| QH2.5MT3/CL/HT/R | 28126 | 2-15 |
| QH2500T3/CL | 22838 | 2-14 |
| QH2M/T3/CL/HT | 22790 | 2-15 |
| QH2MT3/1CL/HT/VB | 15551 | 2-15 |
| QH2MT3/CL/HT/R | 12716 | 2-15 |
| QH3650T3/CL/5 | 10872 | 2-14 |
| QH3800T3/CL | 22875 | 2-14 |
| QH3MT3/CL/HT/R | 28127 | 2-15 |
| QH500T3/CL | 21788 | 2-14 |

Index (cont.)

| Description | Order Code | Page Number |
|------------------|------------|-------------|
| QH500T3/CL/7 | 21787 | 2-14 |
| QH6MT3/CL/HT | 23843 | 2-15 |
| R10W | 23322 | 8-30 |
| R5W | 23314 | 8-30 |
| R5WLL | 23765 | 8-30 |
| SDT-WIDE | 63288 | 21-3 |
| SDT-WIDE-D | 63289 | 21-3 |
| SIR-LONG | 63290 | 21-3 |
| SIR-LONG-D | 63291 | 21-3 |
| SIR-WIDE | 63292 | 21-3 |
| SIR-WIDE-D | 63293 | 21-3 |
| SL-SS/TP | 64825 | 15-6 |
| SPL1000/PAR64/HR | 88513 | 3-14 |
| SPL1000/PAR64840 | 88514 | 3-14 |
| SPL1500/H/652 | 16920 | 3-14 |
| T4W | 23318 | 8-30 |
| TEL/120MB | 12078 | 8-31 |
| TEL/120PSB | 12080 | 8-31 |
| TEL/12PSB | 12760 | 8-30 |
| TEL/24E2 | 29001 | 8-30 |
| TEL/24PSB | 12071 | 8-30 |
| TEL/28MB | 12761 | 8-30 |
| TEL/28PSB | 12072 | 8-30 |
| TEL/48C2 | 29041 | 8-30 |
| TEL/48PSB | 12075 | 8-30 |
| TEL/60MB | 12076 | 8-30 |
| TEL/60PSB | 12077 | 8-30 |
| TEL/6PSB | 12756 | 8-30 |
| USB-0412-12-IP | 88921 | 16-6 |
| W16W | 26353 | 8-31 |
| W16W | 20280 | 8-31 |
| W3W | 27562 | 8-31 |
| W5W | 27563 | 8-31 |
| W5WLL | 67895 | 8-31 |
| WDT-10-DR-G-D-A | 63313 | 21-3 |
| WDT-10-DR-G-D-B | 63315 | 21-3 |
| WDT-10-DR-G-D-G | 63314 | 21-3 |
| WDT-10-DR-G-D-V | 63309 | 21-3 |
| WDT-10-DR-G-D-W | 63308 | 21-3 |
| WDT-10-SR-G-D-A | 63297 | 21-3 |
| WDT-10-SR-G-D-B | 63299 | 21-3 |
| WDT-10-SR-G-D-G | 63298 | 21-3 |
| WDT-10-SR-G-D-V | 63296 | 21-3 |
| WDT-10-SR-G-D-W | 63295 | 21-3 |
| WIR-10-DR-G-D-A | 63346 | 21-3 |
| WIR-10-DR-G-D-B | 63348 | 21-3 |
| WIR-10-DR-G-D-G | 63347 | 21-3 |
| WIR-10-DR-G-D-V | 63345 | 21-3 |
| WIR-10-DR-G-D-W | 63344 | 21-3 |
| WIR-10-LV-A | 63395 | 21-4 |
| WIR-10-LV-B | 63397 | 21-4 |
| WIR-10-LV-G | 63396 | 21-4 |
| WIR-10-LV-V | 63394 | 21-4 |
| WIR-10-LV-W | 63393 | 21-4 |
| WIR-10-RR7-D-A | 63401 | 21-4 |
| WIR-10-RR7-D-B | 63405 | 21-4 |
| WIR-10-RR7-D-G | 63403 | 21-4 |
| WIR-10-RR7-D-V | 63399 | 21-4 |
| WIR-10-RR7-D-W | 63398 | 21-4 |
| WIR-10-SR-C-D-A | 63337 | 21-3 |
| WIR-10-SR-C-D-B | 63339 | 21-3 |
| WIR-10-SR-C-D-G | 63338 | 21-3 |
| WIR-10-SR-C-D-V | 63336 | 21-3 |
| WIR-10-SR-C-D-W | 63335 | 21-3 |
| WIR-10-SR-G-D-A | 63326 | 21-3 |

| Description | Order Code | Page Number |
|-----------------|------------|-------------|
| WIR-10-SR-G-D-B | 63328 | 21-3 |
| WIR-10-SR-G-D-G | 63327 | 21-3 |
| WIR-10-SR-G-D-V | 63325 | 21-3 |
| WIR-10-SR-G-D-W | 63324 | 21-3 |
| WY5W | 20279 | 8-31 |
| | 66957 | 19-10 |
| | 66958 | 19-10 |
| | 68663 | 19-10 |
| | 66969 | 19-11 |
| | 66970 | 19-11 |
| | 66972 | 19-11 |
| | 66960 | 19-12 |
| | 66973 | 19-12 |
| | 68664 | 19-12 |
| | 66975 | 19-13 |
| | 66977 | 19-13 |
| | 66979 | 19-13 |
| | 66978 | 19-14 |
| | 66980 | 19-14 |
| | 68665 | 19-14 |
| | 68666 | 19-15 |
| | 68667 | 19-15 |
| | 68668 | 19-15 |
| | 68663 | 19-16 |
| | 68664 | 19-16 |
| | 68665 | 19-16 |
| | 68670 | 19-17 |
| | 66871 | 19-17 |
| | 66880 | 19-17 |
| | 66872 | 19-18 |
| | 66883 | 19-18 |
| | 66884 | 19-18 |
| | 66902 | 19-19 |
| | 66903 | 19-19 |
| | 66904 | 19-19 |
| | 66885 | 19-20 |
| | 66886 | 19-20 |
| | 66905 | 19-20 |
| | 66887 | 19-21 |
| | 66898 | 19-21 |
| | 66899 | 19-21 |
| | 93861 | 19-22 |
| | 93862 | 19-22 |
| | 66908 | 19-23 |
| | 66910 | 19-23 |
| | 66912 | 19-24 |
| | 66913 | 19-24 |
| | 66914 | 19-25 |
| | 66915 | 19-25 |
| | 66919 | 19-26 |
| | 66921 | 19-26 |
| | 66922 | 19-26 |
| | 66923 | 19-27 |
| | 66925 | 19-27 |
| | 68660 | 19-27 |
| | 66926 | 19-28 |
| | 66927 | 19-28 |
| | 66930 | 19-29 |
| | 66931 | 19-29 |
| | 66936 | 19-3 |
| | 66961 | 19-3 |
| | 66962 | 19-3 |
| | 66937 | 19-4 |
| | 66938 | 19-4 |
| | 66939 | 19-4 |

| Description | Order Code | Page Number |
|-------------|------------|-------------|
| | 66940 | 19-5 |
| | 66943 | 19-5 |
| | 66963 | 19-5 |
| | 66945 | 19-6 |
| | 66946 | 19-6 |
| | 66967 | 19-6 |
| | 66947 | 19-7 |
| | 66948 | 19-7 |
| | 66951 | 19-7 |
| | 66952 | 19-8 |
| | 66953 | 19-8 |
| | 68662 | 19-8 |
| | 66954 | 19-9 |
| | 66955 | 19-9 |
| | 66956 | 19-9 |