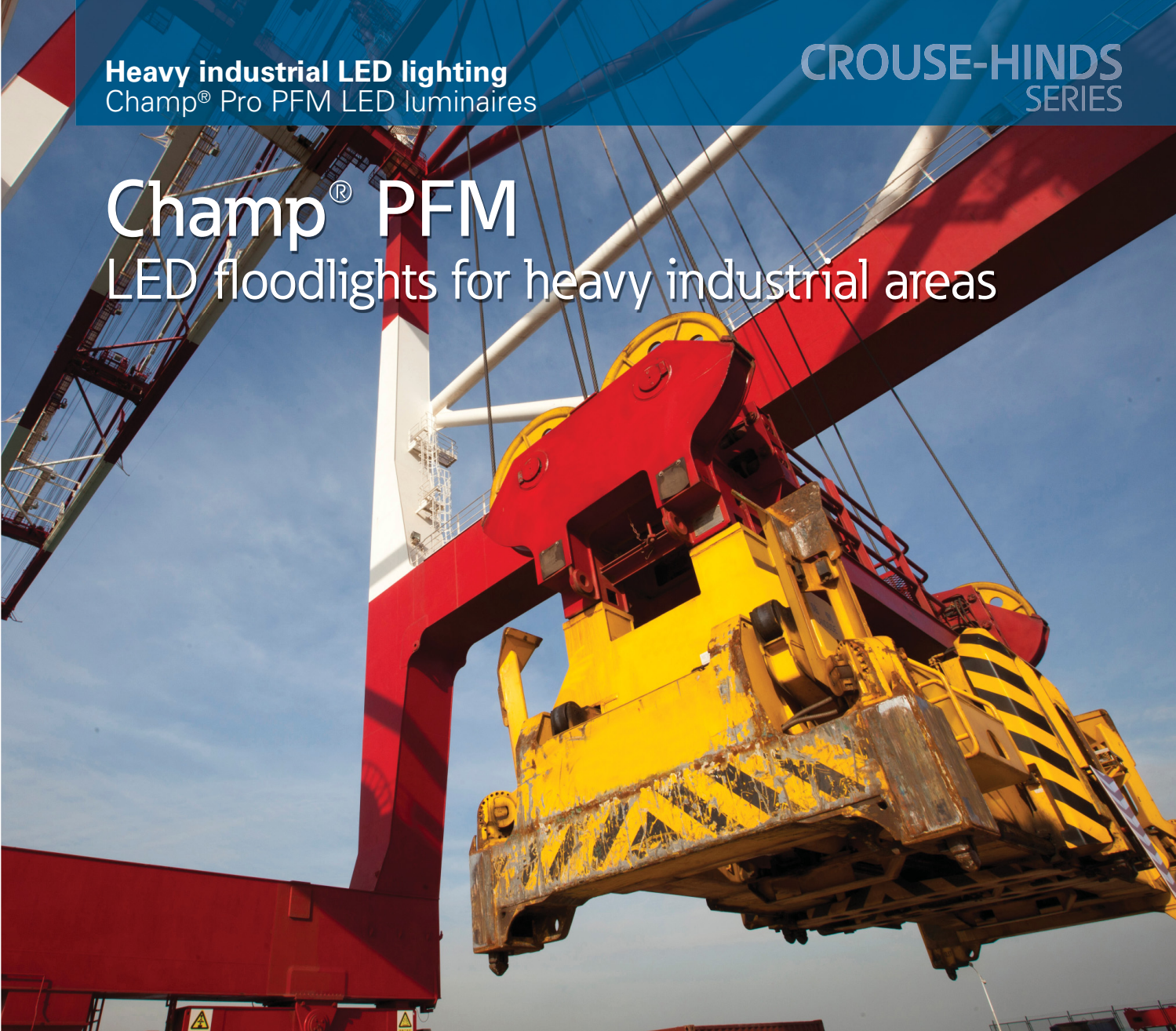


Heavy industrial LED lighting  
Champ® Pro PFM LED luminaires

CROUSE-HINDS  
SERIES

# Champ® PFM

LED floodlights for heavy industrial areas



**EATON**

Powering Business Worldwide



Champ® Pro PFM LED floodlights

# Safe. Reliable. Efficient.

Featuring the industry's broadest range of LED luminaires for harsh and heavy industrial environments, Eaton's Crouse-Hinds can deliver a lighting solution that performs reliably in even the worst operating conditions. All the while reducing your energy, maintenance and manpower costs.

## Why LED?

### **Energy efficiency**

LED average energy consumption is significantly less than traditional fluorescent and HID fixtures

### **Start/restart time**

Instant illumination vs. 10 minute restrike time for HID

### **Light quality**

Higher color rendering compared to fluorescent and HID

### **Environmental benefits**

Mercury-free LED eliminates disposal costs and lower energy consumption for a smaller carbon footprint

## Why Crouse-Hinds?

### **Industry-best reliability**

Built to withstand a wide array of applications

### **Thermal management**

Effective heat sinking ensures longer life

### **Quality of light**

Custom optics designed to maximize light distribution and intensity

### **Globally certified**

Designed to global specifications for IEC and NEC applications

### **Serviceable drivers**

Easy access to drivers for service or replacement

# Why PFM LED?

**Reliable floodlights.** PFM LED luminaires are engineered to deliver high lumen output and maintenance-free long life in the toughest conditions.

## Versatile design

- Can be used for outdoor or indoor applications, and for a wide range of mounting heights depending on model and light level requirement

## Smaller and lighter

- 25% smaller footprint than previous model
- 10 lbs. (4.5 kg) less weight than previous model

## Full frame yoke

- Designed to utilize the SFA6 slipfitter and SWB6 wall mount bracket, making it ideal for retrofit or new installations



## High lumen output:

- Up to 117 lumens per watt
- Up to 72% energy savings over traditional HID fixtures (compared to 400W MH)



## Multiple lens options:

- Tempered clear glass lens standard
- Polycarbonate and diffused glass lens options available

## Rugged heat sink

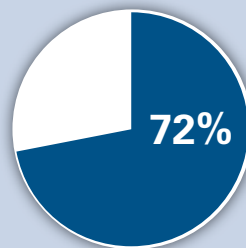
- Heat sink designed to perform and provide maximum light levels in high ambient temperatures up to +65°C and as low as -40°C
- Thick walled castings make for a tough, rugged housing that keeps the internal driver and LED temperature down

## LED vs. HID savings at a glance

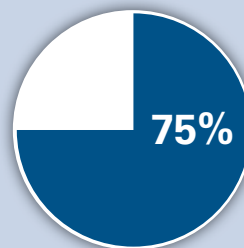
Why are so many facilities making the switch from HID to LED?

The numbers say it all.

### PFM13L/UNV1 vs. 400 watt HID



72% REDUCTION IN ENERGY COSTS



75% LOWER TOTAL COST OF OWNERSHIP



100% MAINTENANCE REDUCTION

Assumptions: Calculations based on overall life of the LED system. Energy cost of \$.09 per kilowatt; 24 hour per day operation; labor rate of \$75 each for 2 workers; average time for fixture maintenance of 1 hour.

# Features & specifications

## Champ Pro PFM series LED floodlights

Champ PFM LED floodlights are designed to provide full-spectrum, crisp, white light. Seven versions of the Champ PFM are available, from 3,000 to 13,000 lumens, providing ideal solutions for a wide range of harsh and heavy industrial applications.

**Up to 75% reduction in energy costs and 150,000 hours of continuous operation.**

| Model number | Nominal lumens* | Wattage | Lumens per watt | Equivalent HID luminaire |
|--------------|-----------------|---------|-----------------|--------------------------|
| PFM3L        | 3,189           | 28      | 114             | 70W-100W                 |
| PFM5L        | 5,183           | 45      | 115             | 100W-150W                |
| PFM7L        | 7,095           | 62      | 114             | 150W-175W                |
| PFM9L        | 9,132           | 79      | 116             | 175W-250W                |
| PFM11L       | 11,107          | 99      | 112             | 250W-400W                |
| PFM13L       | 13,100          | 112     | 117             | 400W                     |
| PFM15L       | 15,181          | 131     | 116             | 450W+                    |

\*Tolerance +/- 10%; @120 VAC, 25°C ambient, 7x6 optics.

## Applications:

- Locations requiring continuous and consistent light levels in extreme ambient temperatures
- Areas requiring frequent on-and-off of lights
- Where extremely corrosive, wet, dusty, hot and/or cold conditions exist
- Manufacturing plants; heavy industrial, chemical, food and beverage facilities; mining; platforms; loading docks; tunnels; outdoor wall and pole mounted areas

## LED system:

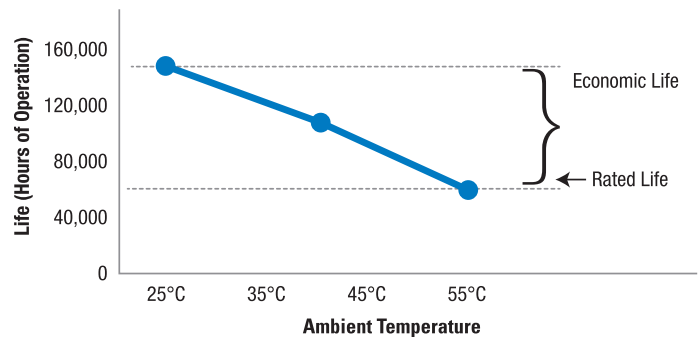
- Cool white (5000K, 70 CRI) and warm white (3000K, 80 CRI)
- Custom designed optics – 7x6 standard, 3x3 optional (3L-11L)

## Champ PFM LED benefits:

- Instant illumination and restrike
- Better visibility with crisp, white light
- Cold temperature operation / no warm-up required
- Serviceable drivers
- Easy installation – yoke design to mount to SFA6
- Energy-efficient technology – up to 72% energy savings over HID fixtures
- 60,000 hours of rated life at 55°C – eliminates need for frequent lamp replacement
- Contains no mercury or other hazardous substances
- Shock- and vibration-resistant solid-state luminaires have no filaments or glass components that could break – greatly reduces the risk of premature failure
- Operating ambient -40°C to 65°C
- 5 year fixture warranty‡

‡Extension of standard terms and conditions to five years. Refer to page 2 of the D-0914 authorized distributor price book for Crouse-Hinds standard Terms and Conditions.

## LED system lifetime rated versus economic life:



Economic life can range anywhere between 50,000 to 150,000 hours, or 5 to 20 years of maintenance-free operation.

## Fixture life and years of maintenance-free operation

| Ambient temperature | Fixture life (hours) | No. of years at 24 hours usage | No. of years at 12 hours usage |
|---------------------|----------------------|--------------------------------|--------------------------------|
| 25°C                | 150,000              | 17                             | 34                             |
| 40°C                | 90,000               | 10                             | 20                             |
| 55°C                | 60,000               | 7                              | 14                             |

\*50,000 hours of life at 65°C ambient.

## Fixture life:

- Rated life of 60,000 hours @ 55°C operating ambient and 24/7 continuous operation for 365 days
- Economic life of 150,000 hours @ 25°C ambient
- L70 LED life >300,000 hours @ 55°C

## Electrical ratings:

| Model number | Input power (watts) | Input amps at 120-277 VAC |  |
|--------------|---------------------|---------------------------|--|
| PFM3L        | 28.0 - 29.1         | 0.24 - 0.11               | <b>PFM3L - PFM15L</b><br><b>UNV1 driver</b> 100-277 VAC @ 50/60 Hz; 108-250 VDC @ 50/60 Hz<br><b>UNV34 driver</b> 347-480 VAC @ 50/60 Hz<br><b>Power factor</b> >0.9 |
| PFM5L        | 45.4 - 45.8         | 0.38 - 0.18               |  |
| PFM7L        | 61.8 - 62.5         | 0.52 - 0.24               |  |
| PFM9L        | 78.8 - 80.3         | 0.66 - 0.31               |  |
| PFM11L       | 98.8 - 99.9         | 0.83 - 0.37               |  |
| PFM13L       | 111.8 - 112.4       | 0.94 - 0.42               |  |
| PFM15L       | 131.4 - 131.5       | 1.10 - 0.48               |  |

## Standard materials:

- Lamp housing and adapter – die cast aluminum with Corro-free™ epoxy powder coat
- Lens – heat- and impact-resistant glass (standard)
- Gaskets – silicone and neoprene
- External hardware – stainless steel

## Qualifications and compliances:

- DesignLights Consortium® Qualified (some models are not DLC qualified)\*



\* Approved models include: PFM3L/UNV1; PFM5L/UNV1; PFM7L/UNV1; PFM9L/UNV1; PFM11L/UNV1; PFM13L/UNV1; PFM3L/UNV34; PFM5L/UNV34; PFM7L/UNV34; PFM9L/UNV34; PFM11L/UNV34; PFM13L/UNV34

7x6 optics on all approved models; 3x3 optics not DLC approved.

Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under family models for full listing details. Not all models are approved for all application categories.



**Certifications and compliances:**

NEC and CEC

- Wet Locations, Type 4X, IP66

UL Standards

- UL1598 Luminaires, UL1598A Marine, UL8750

CSA Standard

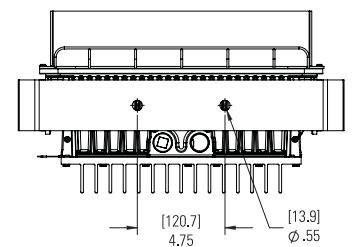
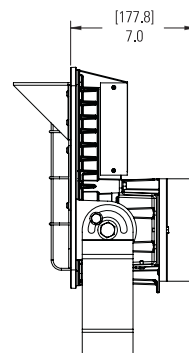
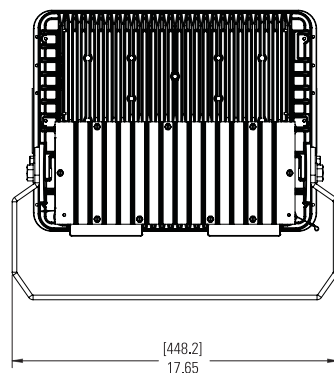
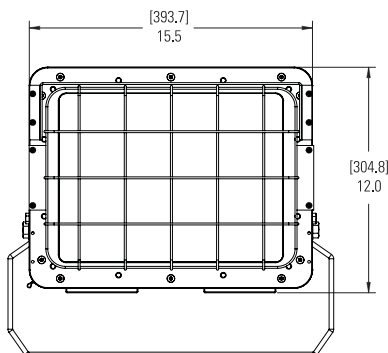
- cUL Listed to CSA Standard CSA C22.2 No. 250

IEC Standard

- IEC 60598
- CE

**Weights and dimensions:**

| Model number | Lbs. | Kg.  | Width |       | Height |       | Depth |       |
|--------------|------|------|-------|-------|--------|-------|-------|-------|
|              |      |      | in.   | mm.   | in.    | mm.   | in.   | mm.   |
| PFM3L-PFM7L  | 30.7 | 13.9 | 15.5  | 393.7 | 12.0   | 304.8 | 7.0   | 177.8 |
| PFM9L-PFM15L | 31.8 | 14.4 | 15.5  | 393.7 | 12.0   | 304.8 | 7.0   | 177.8 |



# Ordering information

Part number example

**PFM5LCY/UNV1D 76 S903**

# PFM 5L C Y /UNV1 D 76 S903

## Model

**PFM** NEC model

## Mount

**Y** Yoke

## Light source/intensity

**3L** 3,189 nominal lumens\*

**5L** 5,183 nominal lumens\*

**7L** 7,095 nominal lumens\*

**9L** 9,132 nominal lumens\*

**11L** 11,107 nominal lumens\*

**13L** 13,100 nominal lumens\*

**15L** 15,181 nominal lumens\*

\*7x6 model.

## Color temperature

**C** 5000K, 70 CRI (cool white)

**W** 3000K, 80 CRI (warm white)

## Voltage

**/UNV1** 100-277 VAC, 50/60 Hz; 108-250 VDC

**/UNV34** 347-480 VAC 50/60 Hz

## Options

**S891** Diffused glass lens

**S903** Polycarbonate lens

## Entries

**BLANK** ¾" NPT

**M20** 20mm entry

**M25** 25mm entry

## Optical distribution

**76** 7x6 floodlight pattern optics

**33\*** 3x3 floodlight pattern optics

\*3L - 11L only.

## Dimming

**D** Dimmable driver

**BLANK** Non-dimmable

## Accessories (ordered separately)

**DSV2** Bolt-on visor

**P62** Bolt-on wire guard

**SC831** Safety cable

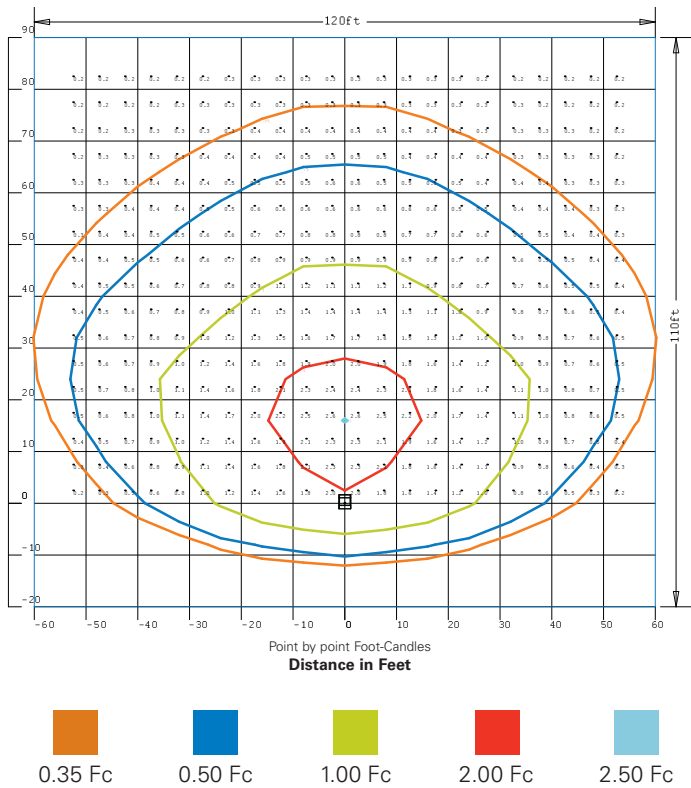
**SFA6** Floodlight slipfitter

**SWB6** Slipfitter wall mount adapter

# Photometric data

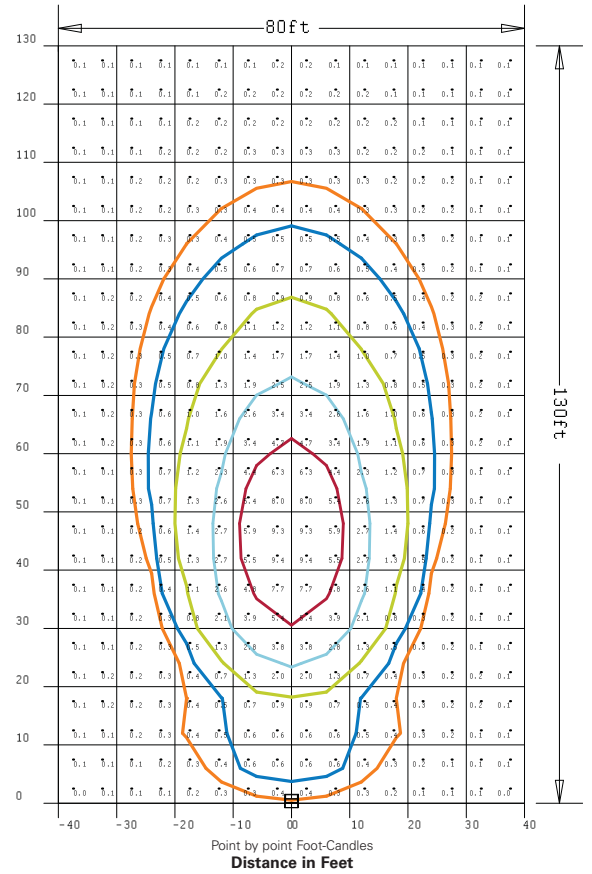
## 7x6 optics

PFM13L Height: 40 ft.; Tilt angle: 45°



## 3x3 optics

PFM11L Height: 30 ft.; Tilt angle: 45°



### Effective projected area (ft.-sq.):

| Position             | PFM3L - PFM15L |
|----------------------|----------------|
| @ 0° Tilt            | 1.5            |
| @ 45° Backwards tilt | 1.1            |
| @ 60° Forward tilt   | 0.8            |

### Lumen output for glass lens models

| Optic | PFM3L | PFM5L | PFM7L | PFM9L | PFM11L | PFM13L | PFM15L |
|-------|-------|-------|-------|-------|--------|--------|--------|
| 7x6   | 3,189 | 5,183 | 7,095 | 9,132 | 11,107 | 13,100 | 15,181 |
| 3x3   | 3,064 | 5,038 | 7,000 | 8,962 | 10,917 | -      | -      |

### Lumen output for diffused glass lens (S891) models

| Optic | PFM3L | PFM5L | PFM7L | PFM9L | PFM11L | PFM13L | PFM15L |
|-------|-------|-------|-------|-------|--------|--------|--------|
| 7x6   | 2,637 | 4,287 | 5,878 | 7,459 | 8,994  | 10,613 | 12,445 |
| 3x3   | 2,546 | 4,179 | 5,806 | 7,433 | 9,055  | -      | -      |

### Lumen output for polycarbonate lens (S903) models

| Optic | PFM3L | PFM5L | PFM7L | PFM9L | PFM11L | PFM13L | PFM15L |
|-------|-------|-------|-------|-------|--------|--------|--------|
| 7x6   | 3,017 | 4,903 | 6,712 | 8,639 | 10,507 | 12,393 | 14,361 |
| 3x3   | 2,924 | 4,808 | 6,680 | 8,552 | 10,418 | -      | -      |



Higher average footcandles/lux, uniformity and distribution coverage with **72% less energy consumption** compared to 400W metal halide.

**U.S. (global headquarters):  
Eaton's Crouse-Hinds business**

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FAX: (315) 477-5179  
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If further assistance is required, please contact an authorized Eaton Distributor, Sales Office, or Customer Service Department.

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FAX: (800) 263-9504  
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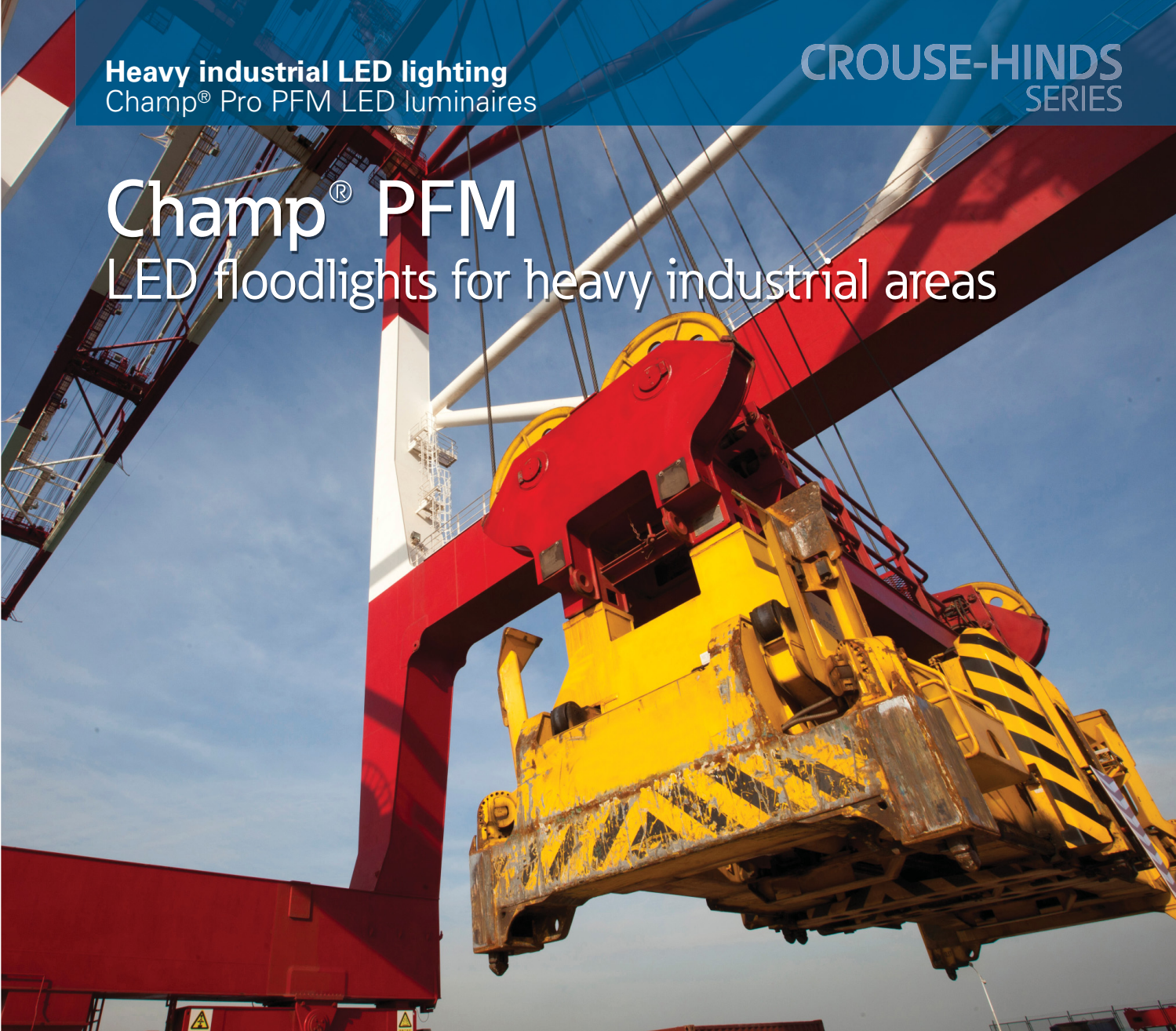


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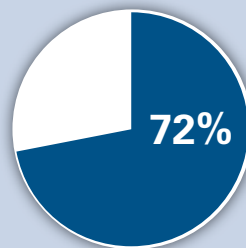
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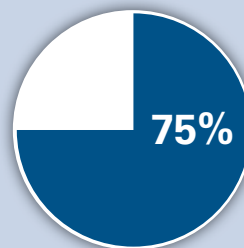
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\*Tolerance +/- 10%; @120 VAC, 25°C ambient, 7x6 optics.

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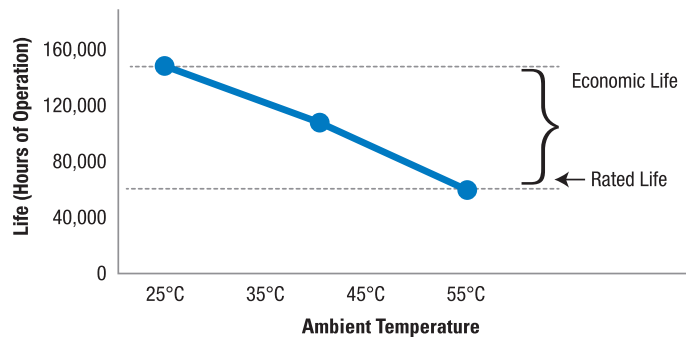
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| 55°C                | 60,000               | 7                              | 14                             |

\*50,000 hours of life at 65°C ambient.

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| <b>UNV34 driver</b> |                     |                           | 347-480 VAC @ 50/60 Hz                         |
| <b>Power factor</b> |                     |                           | >0.9   |

## Standard materials:

- Lamp housing and adapter – die cast aluminum with Corro-free™ epoxy powder coat
- Lens – heat- and impact-resistant glass (standard)
- Gaskets – silicone and neoprene
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## Qualifications and compliances:

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CSA Standard

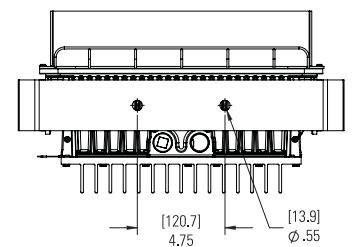
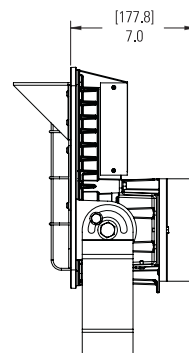
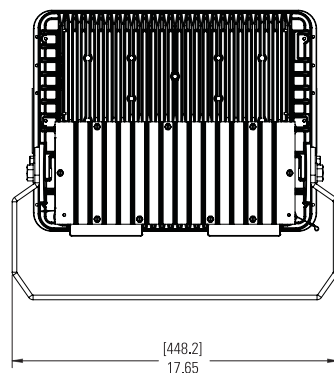
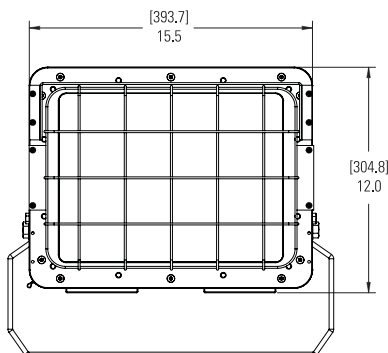
- cUL Listed to CSA Standard CSA C22.2 No. 250

IEC Standard

- IEC 60598
- CE

**Weights and dimensions:**

| Model number | Lbs. | Kg.  | Width |       | Height |       | Depth |       |
|--------------|------|------|-------|-------|--------|-------|-------|-------|
|              |      |      | in.   | mm.   | in.    | mm.   | in.   | mm.   |
| PFM3L-PFM7L  | 30.7 | 13.9 | 15.5  | 393.7 | 12.0   | 304.8 | 7.0   | 177.8 |
| PFM9L-PFM15L | 31.8 | 14.4 | 15.5  | 393.7 | 12.0   | 304.8 | 7.0   | 177.8 |



# Ordering information

Part number example

**PFM5LCY/UNV1D 76 S903**

# PFM 5L C Y /UNV1 D 76 S903

## Model

**PFM** NEC model

## Mount

**Y** Yoke

## Light source/intensity

**3L** 3,189 nominal lumens\*

**5L** 5,183 nominal lumens\*

**7L** 7,095 nominal lumens\*

**9L** 9,132 nominal lumens\*

**11L** 11,107 nominal lumens\*

**13L** 13,100 nominal lumens\*

**15L** 15,181 nominal lumens\*

\*7x6 model.

## Color temperature

**C** 5000K, 70 CRI (cool white)

**W** 3000K, 80 CRI (warm white)

## Voltage

**/UNV1** 100-277 VAC, 50/60 Hz; 108-250 VDC

**/UNV34** 347-480 VAC 50/60 Hz

## Options

**S891** Diffused glass lens

**S903** Polycarbonate lens

## Entries

**BLANK** ¾" NPT

**M20** 20mm entry

**M25** 25mm entry

## Optical distribution

**76** 7x6 floodlight pattern optics

**33\*** 3x3 floodlight pattern optics

\*3L - 11L only.

## Dimming

**D** Dimmable driver

**BLANK** Non-dimmable

## Accessories (ordered separately)

**DSV2** Bolt-on visor

**P62** Bolt-on wire guard

**SC831** Safety cable

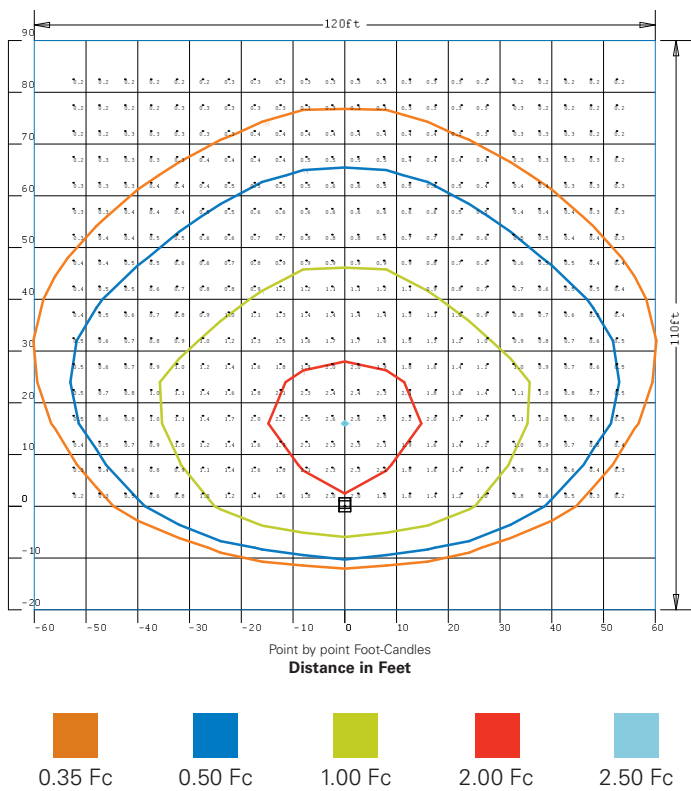
**SFA6** Floodlight slipfitter

**SWB6** Slipfitter wall mount adapter

# Photometric data

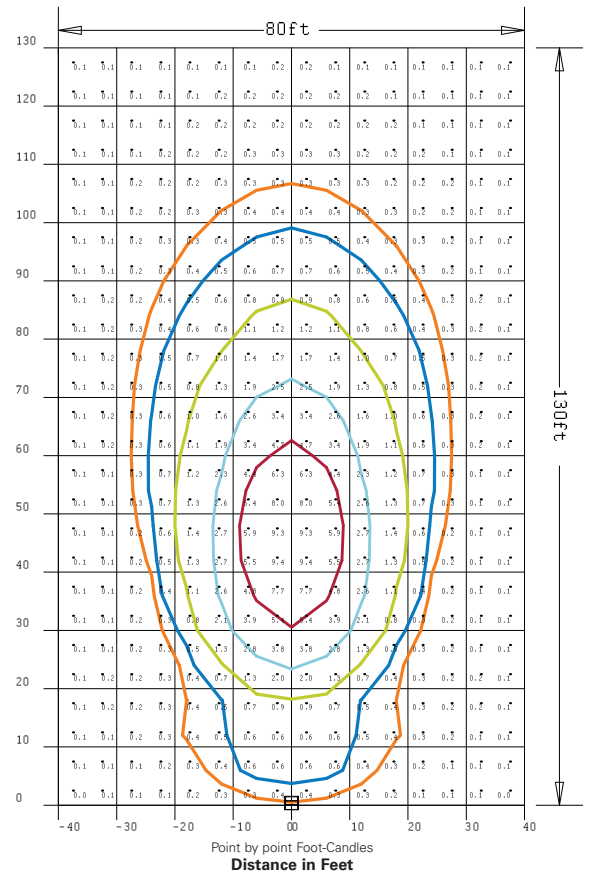
## 7x6 optics

PFM13L Height: 40 ft.; Tilt angle: 45°



## 3x3 optics

PFM11L Height: 30 ft.; Tilt angle: 45°



### Effective projected area (ft.-sq.):

| Position             | PFM3L - PFM15L |
|----------------------|----------------|
| @ 0° Tilt            | 1.5            |
| @ 45° Backwards tilt | 1.1            |
| @ 60° Forward tilt   | 0.8            |

### Lumen output for glass lens models

| Optic | PFM3L | PFM5L | PFM7L | PFM9L | PFM11L | PFM13L | PFM15L |
|-------|-------|-------|-------|-------|--------|--------|--------|
| 7x6   | 3,189 | 5,183 | 7,095 | 9,132 | 11,107 | 13,100 | 15,181 |
| 3x3   | 3,064 | 5,038 | 7,000 | 8,962 | 10,917 | -      | -      |

### Lumen output for diffused glass lens (S891) models

| Optic | PFM3L | PFM5L | PFM7L | PFM9L | PFM11L | PFM13L | PFM15L |
|-------|-------|-------|-------|-------|--------|--------|--------|
| 7x6   | 2,637 | 4,287 | 5,878 | 7,459 | 8,994  | 10,613 | 12,445 |
| 3x3   | 2,546 | 4,179 | 5,806 | 7,433 | 9,055  | -      | -      |

### Lumen output for polycarbonate lens (S903) models

| Optic | PFM3L | PFM5L | PFM7L | PFM9L | PFM11L | PFM13L | PFM15L |
|-------|-------|-------|-------|-------|--------|--------|--------|
| 7x6   | 3,017 | 4,903 | 6,712 | 8,639 | 10,507 | 12,393 | 14,361 |
| 3x3   | 2,924 | 4,808 | 6,680 | 8,552 | 10,418 | -      | -      |



Higher average footcandles/lux, uniformity and distribution coverage with **72% less energy consumption** compared to 400W metal halide.

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