PROJECT INFORMATION

Project Name

Type

Catalog No.

Date

FEATURES

- Full distribution LED troffer

- Direct replacement of fluorescent 2x4

- Wet location option available

- Long-life, 60,000 hour LEDs at L80 reduce life cycle maintenance costs

- Four LED color choices and 80 CRI

- Many shielding choices

- Two door frame choices

- Metal to metal light leak protection on all four sides of shielding frame

- Fixed output, step dimming (high/low/off), 0-10V dimming, 0-10V dimming-dim to dark drivers available

- Hinged optical system allows easy access to LED modules and electrical from below the ceiling

- UL Sanitation certified per NSF standards

- All models standard with IC rating

- DLC® (DesignLights Consortium) Qualified, with some Premium Qualified configurations - see www.designlights.org

- Five year warranty)

LJT24

CONSTRUCTION
Luminaire housing, end caps, and reflectors are die-formed code-gauge cold-rolled steel. Optical system hinges from either side for easy access to LED module and electrical components. Mechanical light trap prevents light leaks.

FINISH
All metal parts processed with a multi-stage phosphate bonding treatment and finished with a high reflectance baked white enamel.

SHIELDING
Lens is high transmission pattern #12 acrylic (A12) for light diffusion without compromise to light output. Other shielding may be specified. If desired shielding media is not shown in ordering guide, contact your local representative.

INSTALLATION
An access plate is furnished with each recessed fixture for fast wiring connections without the necessity to open the fixture or wireway.

CEILING COMPATIBILITY
Designed for recessed installation in standard inverted tee grid ceilings (G). Four integral T-bar clips standard. Also available for recessed installation in hard ceilings (G with FK accessory), surface mount at ceiling plane (SM), or cable mount suspension below ceiling plane (CM). For compatibility with specific ceilings contact your representative.

CERTIFICATION
All luminaires are built to UL 1598 and 2108 standards, and bear appropriate CSA labels. UL Sanitation Certified per NSF Standards. Damp location labeling standard, wet location labeling is optional. CSA certified to UL 924 standards with battery pack or DTS (Dimming Bypass Module) options. Adheres to LM79, LM80 and TM21 industry standards. IC rating is standard on all models. DLC® (DesignLights Consortium) Qualified, with some Premium Qualified configurations. Please refer to the DLC website for specific product qualifications at www.designlights.org. The DTS, Dimming Bypass Module, is for emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. See page 6 for wiring diagram.

This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 05/04/2022. See Buy American Solutions

WARRANTY
Five year warranty. (Terms and Conditions Apply)

ORDERING INFORMATION

YOUR ORDER LJT24 – ⎯ – ⎯ – ⎯ – ⎯

LJT 24 –

MODEL	SIZE	COLOR TEMP	LUMEN OUTPUT	CEILING TYPE	DOOR
LJT LED Lensed Troffer	**24** 2' × 4'	**30** 3000K **35** 3500K **40** 4000K **50** 5000K	**XW** Extra Low Watt **VW** Very Low Watt **MW** Medium Low Watt **LW** Low Watt **ML** Medium Lumen **HL** High Lumen **VL** Very High Lumen **XL** Extra High Lumen[5] **UL** Ultra High Lumen **EL** Extreme Lumen **VEL** Very Extreme Lumen See Product Availability Table Below	**G** Grid[1] **SM** Surface Mount **CM** Cable Mount[2]	**FS** White Flush Steel **FA** White Flush Aluminum **RA** Regressed Aluminum[3]

– ⎯ **–**

SHIELDING	DRIVER	VOLTAGE	OPTIONS
A12 Pattern 12 Acrylic Lens **A12125** Pattern 12 Acrylic Lens, 0.125" Nominal **A12F** Pattern 12 Frosted Acrylic Lens **A12125F** Pattern 12 Frosted Acrylic Lens, 0.125" Nominal **A19** Pattern 19 Acrylic Lens, 0.156" Nominal **A19F** Pattern 19 Frosted Acrylic Lens 0.156" **CP** Clear Polycarbonate **SFA** Smooth Frosted Acrylic	**E** Fixed Output **ED** 0-10V Dimming **ED1** 0-10V 1% Dimming **EDD** 0-10V Dimming, Dim to Dark[4] **ESD** Step Dimming[4,5] **LUTH** Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology[4,5]	**U** 120V-277V **347** 347V	**ELL14** Emergency Battery Pack Installed, 1400 Lumens[6,5,10] **C388** 3-Wire Flex **C488** 4-Wire Flex **C588** 5-Wire Flex **C688** 6-Wire Flex[11] **GLR** Fast Blow Fuse **GTD** Generator Transfer Device[7] **DTS** Dimming Bypass Module[8] **G1** Single Gasketing (Door to Housing) **G2** Double Gasketing (G1 and Lens to Door) **G3** Triple Gasketing (G2 and Housing to Ceiling) **WL** Wet Location (Select G2 or G3 Gasketing)[9] **EOR** End of Row (SM and CM only. Provides end wiring access for continuous row mounting.) **INT** Intermediate (SM and CM only. Provides ends with wiring access for continuous row mounting.) **CP** Chicago Plenum

ACCESSORIES (ORDER SEPARATELY)	
FK24	2' × 4' Single Flange Kit
CM48Y2SC3F-KIT	48" Cable Mount Kit for 2' wide CM ceiling type, 3 Wire Feed Cord

[1] For hard ceilings use flange kit accessory
[2] Order hanger accessories separately
[3] Increases fixture depth to 4 ¼"
[4] Not available in all lumen packages, see driver table below
[5] Not available with 347V
[6] For compatibility with Dual-Lite LiteGear® inverters in lieu of installed battery pack, contact your representative
[7] GTD available for E (fixed output) driver option only
[8] For emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. Only available with 0-10V drivers. Universal voltage only. See page 6 for wiring diagram
[9] FA door and Grid Ceiling only
[10] - UL, EL and VEL are not available with thru wiring when ELL14 is used
[11] For use only with battery

Damp label—standard
IC rating—standard

DRIVER AVAILABILITY TABLE

	XW	VW	MW	LW	ML	HL	VL	XL	UL	EL	VEL
E	X	X	X	X	X	X	X	X	X	X	X
ED	X	X	X	X	X	X	X	X	X	X	X
ED1	X	X	X	X	X	X	X	X	X	X	X
EDD	X	X	X	X	X	X	X				
ESD			X	X	X	X	X				
LUTH	X	X	X	X	X	X					

Product Availability			
Lumen Package	Lumens	Input Watts	LPW
LJT24-50XWG-FSA12-EU	2919	20	145
LJT24-40XWG-FSA12-EU	2681	20	133
LJT24-35XWG-FSA12-EU	2640	20	131
LJT24-30XWG-FSA12-EU	2563	20	127
LJT24-50VWG-FSA12-EU	3806	27	142
LJT24-40VWG-FSA12-EU	3495	27	130
LJT24-35VWG-FSA12-EU	3441	27	128
LJT24-30VWG-FSA12-EU	3341	27	125
LJT24-50MWG-FSA12-EU	4297	31	140
LJT24-40MWG-FSA12-EU	3946	31	129
LJT24-35MWG-FSA12-EU	3886	31	127
LJT24-30MWG-FSA12-EU	3772	31	123
LJT24-50LWG-FSA12-EU	4720	34	139
LJT24-40LWG-FSA12-EU	4334	34	127
LJT24-35LWG-FSA12-EU	4268	34	126
LJT24-30LWG-FSA12-EU	4144	34	122
LJT24-50MLG-FSA12-EU	5218	38	136
LJT24-40MLG-FSA12-EU	4792	38	125
LJT24-35MLG-FSA12-EU	4718	38	123
LJT24-30MLG-FSA12-EU	4581	38	119
LJT24-50HLG-FSA12-EU	6017	45	133
LJT24-40HLG-FSA12-EU	5526	45	122
LJT24-35HLG-FSA12-EU	5441	45	120
LJT24-30HLG-FSA12-EU	5286	45	117
LJT24-50VLG-FSA12-EU	8191	59	138
LJT24-40VLG-FSA12-EU	7522	59	127
LJT24-35VLG-FSA12-EU	7407	59	125
LJT24-30VLG-FSA12-EU	7192	59	121
LJT24-50XLG-FSA12-EU	9763	73	134
LJT24-40XLG-FSA12-EU	8966	73	123
LJT24-35XLG-FSA12-EU	8829	73	121
LJT24-30XLG-FSA12-EU	8571	73	117
LJT24-30ULG-FSA12-EU	9578	74.8	128
LJT24-35ULG-FSA12-EU	9865	74.8	132
LJT24-40ULG-FSA12-EU	10018	74.8	134
LJT24-50ULG-FSA12-EU	10909	74.8	146
LJT24-30ELG-FSA12-EU	11460	92	125
LJT24-35ELG-FSA12-EU	11804	92	128
LJT24-40ELG-FSA12-EU	11987	92	130
LJT24-50ELG-FSA12-EU	13053	92	142
LJT24-30VELG-FSA12-EU	13126	100.1	131
LJT24-35VELG-FSA12-EU	13520	100.1	135
LJT24-40VELG-FSA12-EU	13730	100.1	137
LJT24-50VELG-FSA12-EU	14951	100.1	149

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PHOTOMETRIC DATA

Test **16399** Test Date **06/28/2016**

LUMINAIRE DATA

Luminaire	**LJT24-40LWG-FSA12-EU**
	LJT LED, Lensed Troffer
	2' X 4' LED with A12 pattern acrylic prismed lens
Ballast	**XI040C110V054BST1**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**4334**
Watts	**34.00**
Mounting	**Recessed**
Shielding Angle	**0º = 90 90º = 90**
Spacing Criterion	**0º = 1.19 90º = 1.19**
Luminous Opening in feet	**Length: 3.92 Width: 1.92 Height: 0.00**

ENERGY DATA

Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**127**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$1.89 based on 3000 hrs. and $0.08 per KWH**

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt.
0-30	1456	33.6	33.6
0-40	2317	53.5	53.5
0-60	3680	84.9	84.9
0-90	4334	100.0	100.0
0-180	4334	100.0	100.0

INDOOR CANDELA PLOT
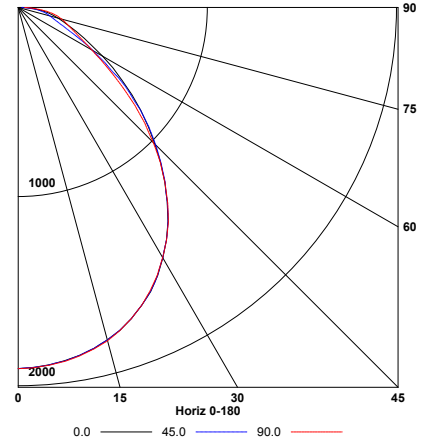
Test **16402** Test Date **06/27/2016**

LUMINAIRE DATA

Luminaire	**LJT24-40MLG-FSA12-EU**
	LJT LED, Lensed Troffer
	2' X 4' LED with A12 pattern acrylic prismed lens
Ballast	**XI040C110V054BST1**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**4792**
Watts	**38.40**
Mounting	**Recessed**
Shielding Angle	**0º = 90 90º = 90**
Spacing Criterion	**0º = 1.19 90º = 1.19**
Luminous Opening in feet	**Length: 3.81 Width: 1.80 Height: 0.00**

ENERGY DATA

Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**125**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$1.90 based on 3000 hrs. and $0.08 per KWH**

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt.
0-30	1609	33.6	33.6
0-40	2562	53.5	53.5
0-60	4069	84.9	84.9
0-90	4792	100.0	100.0
0-180	4792	100.0	100.0

INDOOR CANDELA PLOT
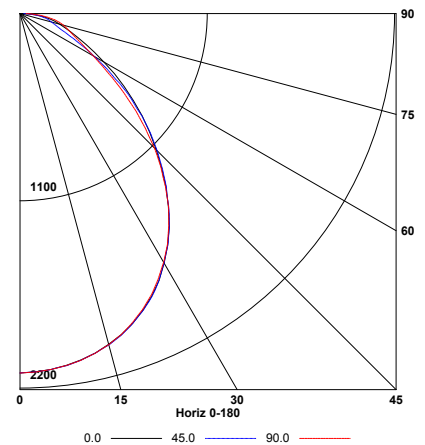
Test **16405** Test Date **06/28/2016**

LUMINAIRE DATA

Luminaire	**LJT24-40HLG-FSA12-EU**
	LJT LED, Lensed Troffer
	2' X 4' LED with A12 pattern acrylic prismed lens
Ballast	**XI054C150V054BST1**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**5526**
Watts	**45.20**
Mounting	**Recessed**
Shielding Angle	**0º = 90 90º = 90**
Spacing Criterion	**0º = 1.18 90º = 1.18**
Luminous Opening in feet	**Length: 3.81 Width: 1.80 Height: 0.00**

ENERGY DATA

|	
Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**122**
ANSI/IESNA RP-1-2004 Compliance	**Noncompliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$1.95 based on 3000 hrs. and $0.08 per KWH**

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt.
0-30	1870	33.8	33.8
0-40	2975	53.8	53.8
0-60	4704	85.1	85.1
0-90	5526	100.0	100.0
0-180	5526	100.0	100.0

INDOOR CANDELA PLOT

LJT24_SPEC_R03

DIMENSIONAL DATA

3¹⁄₈"

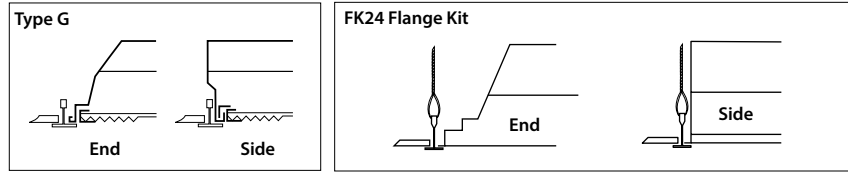24"

2' × 4' 2-Lamp Lay-In

48"

4½"   3"   3⁵⁄₃₂"

3³⁄₃₂"

A   K
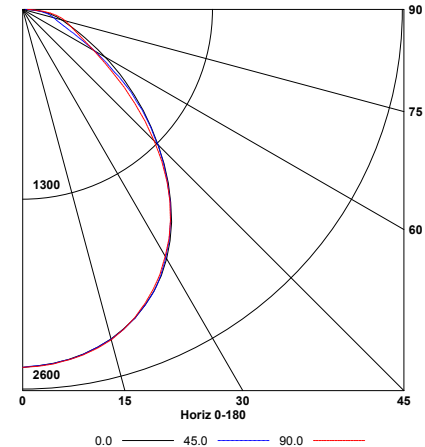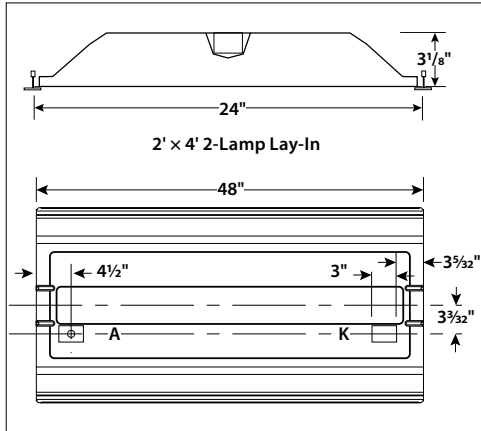
A: ⅞" Diameter knockout
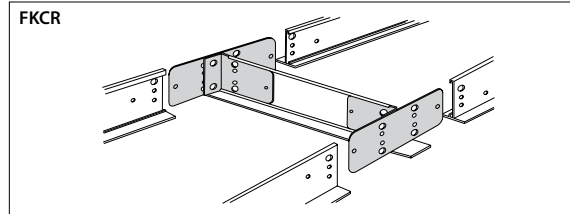K: 2" × 3" through hole for access plate.

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

CEILING COMPATIBILITY

Type G

End   Side

For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 2" allowed.
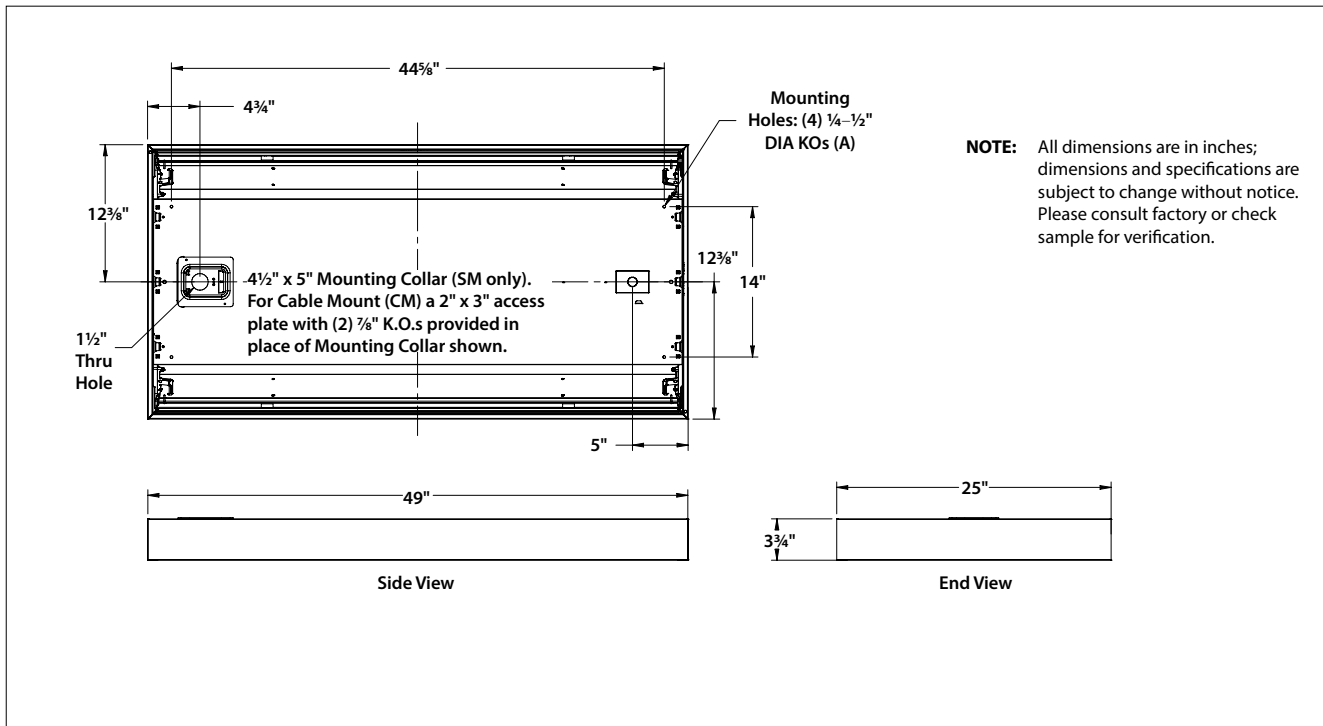
FK24 Flange Kit

End   Side

For hard ceiling applications order FK24 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance.

FKCR

For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK24 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK24 & (1) FKCR)

Row cut out dimensions using FK24 & FKCR adapters:
Width 24⅜", Length [48" × (# in row)] + ⅜". Example: (48" × 2) + ⅜"= 96⅜"

Flange kit rough in dimensions for single unit only: 24⅜" × 48⅜"

DIMENSIONAL DATA - SURFACE MOUNT (SM) AND CABLE MOUNT (CM)

44⅝"

4¾"

Mounting Holes: (4) ¼–½" DIA KOs (A)

12⅜"

12⅜"

14"

4½" x 5" Mounting Collar (SM only). For Cable Mount (CM) a 2" x 3" access plate with (2) ⅞" K.O.s provided in place of Mounting Collar shown.

1½" Thru Hole

5"

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

49"

Side View

25"

3¾"

End View

SURFACE MOUNT

Order SM ceiling type. Mounting collar required for surface mounting. (4) Mounting knock-outs, ¼" to ½" provided as shown, marked "A".

CABLE MOUNT

Order CM ceiling type. Access plate supplied for cable mounting or suspension. Use CM48Y2C3F-KIT 48" cable mount kit. Includes 3 wire feed cord. For other wiring needs, contact your representative. Mounting knock-outs, ¼" to ½", provided as shown, marked "A".

LJT24_SPEC_R03

DTS Integration Guide

DTS WIRING DIAGRAM (0–10V DIMMING DRIVER SHOWN)
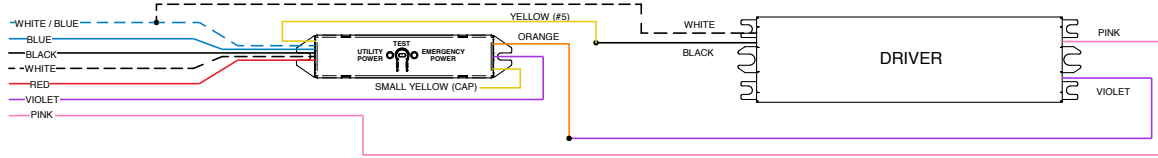
WHITE/BLUE	Emergency Neutral
BLUE	Emergency Line
BLACK	Utility Line (Unswitched Hot)
WHITE	Utility Neutral
RED	Switched Hot
VIOLET	Dimming
PINK	Dimming