

LJT24

2' x 4' LED TROFFER

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

FEATURES

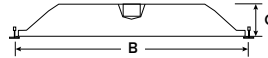
- Full distribution LED troffer
- Direct replacement of fluorescent 2x4
- Wet location option available
- Long-life, 60,000 hour LEDs at L80 reduce life cycle maintenance costs
- Four LED color choices and 80 CRI
- Many shielding choices
- Two door frame choices
- Metal to metal light leak protection on all four sides of shielding frame
- Fixed output, step dimming (high/low/off), 0-10V dimming, 0-10V dimming-dim to off 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



SERVICE PROGRAMS



Typical Dimensions and Weights				
Sizes	(A) Length Inches (mm)	(B) Width Inches (mm)	(C) Height Inches (mm)	Weight lbs (kg)
2x4	48 (1219)	24 (610)	3.125 (79)	16 (7.3)



SPECIFICATIONS

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

CERTIFICATIONS

- All luminaires are built to UL 1598 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

CERTIFICATIONS (CONTINUED)

- The DTS, Dimming Bypass Module, is for emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. See wiring diagram.
- Product configurations not including battery packs or controls meet federal procurement law requirements under the Trade Agreements Act (FAR 52.225-11) [See Buy America\(n\) Solutions](#)

WARRANTY

- 5 year warranty

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Gray Shading = Service Program
Limit of 250 Luminaires **QS10**

ORDERING GUIDE

Example: LJT24-35MLG-FSA12-EU

LJT	24						
Model	Size	Color Temp	Lumen Output	Ceiling Type	Door	Shielding	
LJT LED Lensed Troffer	24 2'x4'	30 3000K	XW Extra Low Watt	G Grid ¹	FS White Flush Steel	A12 Pattern 12 Acrylic Lens	
		35 3500K	VW Very Low Watt	SM Surface Mount	FA White Flush Aluminum	A12125 Pattern 12 Acrylic Lens, 0.125" Nominal	
		40 4000K	MW Medium Low Watt	CM Cable Mount	RA Regressed Aluminum ²	A12F Pattern 12 Frosted Acrylic Lens	
		50 5000K	LW Low Watt			A12125F Pattern 12 Frosted Acrylic Lens, 0.125" Nominal	
			ML Medium Lumen			A19 Pattern 19 Acrylic Lens, 0.156" Nominal	
			HL High Lumen			A19F Pattern 19 Frosted Acrylic Lens 0.156"	
			VL Very High Lumen			CP Clear Polycarbonate	
			XL Extra High Lumen			SFA Smooth Frosted Acrylic	
			UL Ultra High Lumen				
			EL Extreme Lumen				
			VEL Very Extreme Lumen				
			See Product Availability Table Below				

Driver	Voltage	Options
E Fixed Output	U 120-277V	ELL14 Emergency Battery Pack (CEC Title 20 compliant) Installed ^{4,5,6,7}
ED 0-10V Dimming	347 347V	C388 3-wire Flex
ED1 0-10V 1% Dimming		C488 4-wire Flex
EDD 0-10V Dimming, Dim to Off ³		C588 5-wire Flex
ESD Step Dimming ^{3,4}		C688 6-wire Flex
LUTH Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology ^{3,4}		GLR Fast Blow Fuse
		GTD Generator Transfer Device ⁸
		DTS Dimming Bypass Module ^{4,6,9}
		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) ¹⁰
		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
		PAF Paint After Fabrication

ACCESSORY ORDERING GUIDE

Accessories	
<input type="checkbox"/> FK24	2' x 4' Single Flange Kit (Shipped separately)
<input type="checkbox"/> CM48YSC3F-KIT	48" Cable Mount Kit for CM ceiling type, 3 Wire Feed Cord

- Notes:
- For drywall, order G with flange kit accessory
 - Option increases overall fixture height to 4.25"
 - Not available in all lumen packages, refer to Driver Availability table
 - Not available in 347V
 - To determine lumen output in emergency mode, multiply the battery pack wattage by the fixture lumens per watt (LPW)
 - For compatibility with Dual-Lite Litegear inverters, contact lighting representative
 - UL, EL and VEL lumen packages are not available with thru wiring when combined with ELL14 option
 - Only available with E, Fixed Output driver option
 - For emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. See wiring diagram
 - Only available with FA door and Grid ceiling mount

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PRODUCT EXCEPTIONS & DETAILS

Driver options listed below are available for the outputs as shown.

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					

DELIVERED LUMENS

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

Product Availability			
Lumen Package	Lumens	Input Watts	LPW
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

LJT24

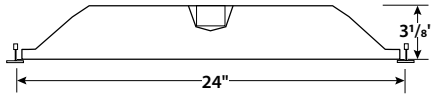
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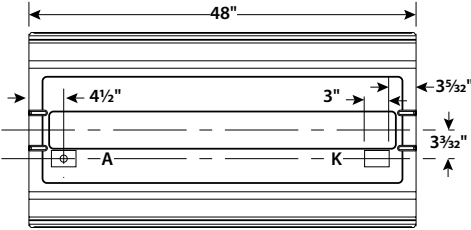
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DIMENSIONS

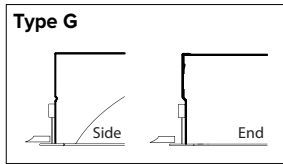


2' x 4' 2-Lamp Lay-In

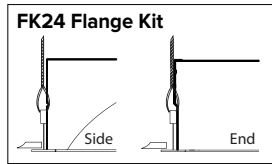


A: 3/8" Diameter knockout
K: 2" x 3" through hole for access plate.

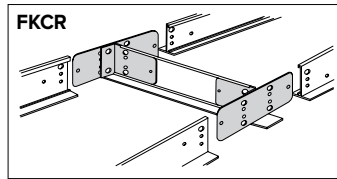
CEILING COMPATIBILITY



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



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

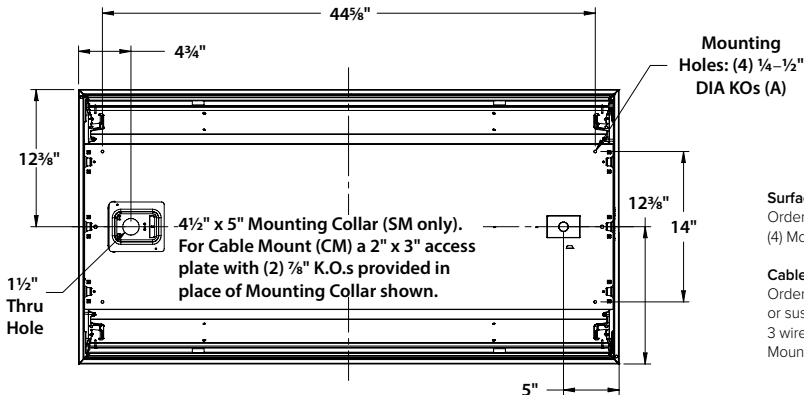


For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK24 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK24 & (1) FKCR)

Row cut out dimensions using FK24s & FKCR adapters:
Width 24 3/8". Length [48" x (# in row)] + 3/8".
Example: (48" x 2) + 3/8" = 96 3/8"

Flange kit cut out dimension for single unit only: 24 3/8" x 48 3/8"

SURFACE MOUNT OR CABLE MOUNT



Surface Mount:
Order SM ceiling type. Mounting collar required for surface mounting. (4) Mounting knock-outs, 1/4" to 1/2" 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, 1/4" to 1/2", provided as shown, marked "A".

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

LJT24

2' x 4' LED TROFFER

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PHOTOMETRY

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 prisms lens
Ballast	XI040C110V054BST1
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	4334
Watts	34.00
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.19 90° = 1.19
Luminous Opening in feet	Length: 3.92 Width: 1.92 Height: 0.00

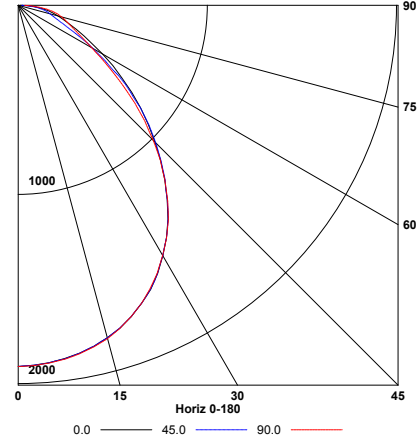
ENERGY DATA

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 prisms lens
Ballast	XI040C110V054BST1
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	4792
Watts	38.40
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.19 90° = 1.19
Luminous Opening in feet	Length: 3.81 Width: 1.80 Height: 0.00

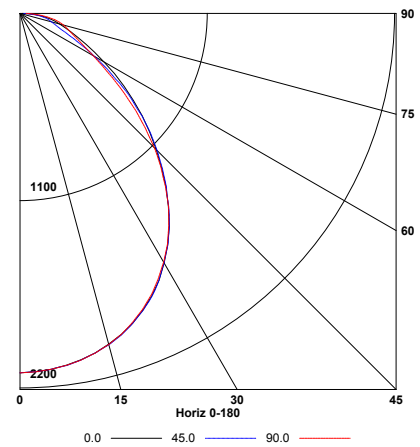
ENERGY DATA

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 prisms lens
Ballast	XI054C150V054BST1
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	5526
Watts	45.20
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.18 90° = 1.18
Luminous Opening in feet	Length: 3.81 Width: 1.80 Height: 0.00

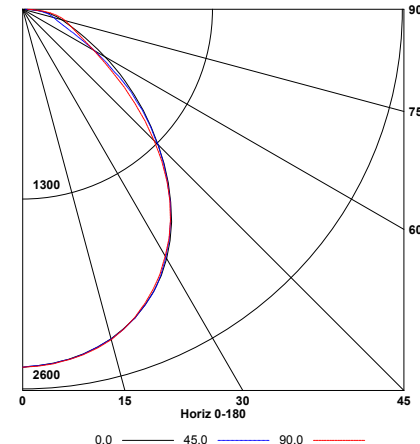
ENERGY DATA

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



DTS WIRING DIAGRAM (0-10V DIMMING DRIVER SHOWN)

