



DATE:	LOCATION:
TYPE:	PROJECT:

CATALOG #

## **FEATURES**

- · Full distribution LED troffer
- · Direct replacement of fluorescent 2x2
- 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 dimmingdim 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











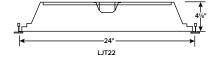












Typical Dimensions and Weights					
Sizes	(A) Length Inches (mm)	(B) Width Inches (mm)	(C) Height Inches (mm)	Weight lbs (kg)	
2x2	24 (610)	24 (610)	4.5 (114)	10 (4.5)	

# **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)
- 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 <a href="https://www.designlights.org">www.designlights.org</a>

## **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







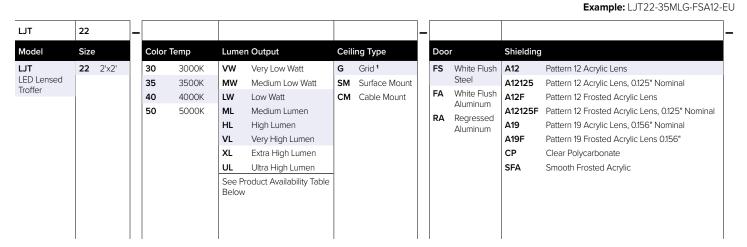
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Gray Shading

= Service Program Limit of 250 Luminaries



## **ORDERING GUIDE**



				_		
Driver		Volt	age		Options	
Е	Fixed Output	U	120-277V		ELL14	Emergency Battery Pack (CEC Title 20 compliant) Installed 3, 4.5, 6
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				C588	5-wire Flex
ESD	Step Dimming 2,3				C688	6-wire Flex
LUTH	,				TB4	T-Bar Clips
	with Soft-on, Fade-to-Black dimming				GLR	Fast Blow Fuse
technology <sup>2,3</sup>				GTD	Generator Transfer Device 8	
					DTS	Dimming Bypass Module <sup>3,5,9</sup>
					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.)
					СР	Chicago Plenum
					PAF	Paint After Fabrication

# **ACCESSORY ORDERING GUIDE**

Accessories	
FK22	2' × 2' Single Flange Kit (Shipped separately)
CM48YSC3F-KIT	48" Cable Mount Kit for CM ceiling type, 3 Wire Feed Cord

### Notes:

- 1 For drywall, order G with flange kit accessory
- 2 Not available in all lumen packages, refer to Driver Availability table.
- 3 Not available in 347V
- To determine lumen output in emergency mode, multiply the battery pack wattage by the fixture lumens per watt (LPW)
- 5 For compatibility with Dual-Lite Litegear inverters, contact lighting representative
- 6 Not available with Surface or Cable Mount
- 7 UL lumen package not available with thru-wire when ELL14 is ordered.
- 8 Only available with E, Fixed Output driver option
- 9 For emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. See wiring diagram.
- 10 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								
	VW	MW	LW	ML	HL	VL	XL	UL
E	Х	Х	X	Х	Х	Х	Х	X
ED	Х	Х	X	Х	Х	Х	Х	X
ED1	Х	X	X	Х	Х	Х	Х	X
EDD	Х	X	X	Х	Х	Х	Х	X
ESD		X	X	Х	Х	Х	Х	X
LUTH	X	X	X	X	X			

# **DELIVERED LUMENS**

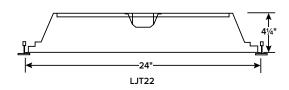
	Product Availability				
Lumen Package	Lumens	Input Watts	LPW		
LJT22-50VWG-FSA12-EU	1572	13	120		
LJT22-40VWG-FSA12-EU	1443	13	110		
LJT22-35VWG-FSA12-EU	1421	13	108		
LJT22-30VWG-FSA12-EU	1380	13	105		
LJT22-50MWG-FSA12-EU	2130	18	117		
LJT22-40MWG-FSA12-EU	1956	18	107		
LJT22-35MWG-FSA12-EU	1926	18	106		
LJT22-30MWG-FSA12-EU	1870	18	103		
LJT22-50LWG-FSA12-EU	2741	24	116		
LJT22-40LWG-FSA12-EU	2517	24	106		
LJT22-35LWG-FSA12-EU	2479	24	105		
LJT22-30LWG-FSA12-EU	2407	24	102		
LJT22-50MLG-FSA12-EU	3722	31	119		
LJT22-40MLG-FSA12-EU	3419	31	109		
LJT22-35MLG-FSA12-EU	3365	31	108		
LJT22-30MLG-FSA12-EU	3267	31	104		
LJT22-50HLG-FSA12-EU	4074	33	125		
LJT22-40HLG-FSA12-EU	3743	33	114		
LJT22-35HLG-FSA12-EU	3684	33	113		
LJT22-30HLG-FSA12-EU	3577	33	109		
LJT22-50VLG-FSA12-EU	4718	42	113		
LJT22-40VLG-FSA12-EU	4334	42	104		
LJT22-35VLG-FSA12-EU	4265	42	103		
LJT22-30VLG-FSA12-EU	4142	42	100		
LJT22-30XLG-FSA12-EU	4684	40	119		
LJT22-35XLG-FSA12-EU	4824	40	122		
LJT22-40XLG-FSA12-EU	4899	40	124		
LJT22-50XLG-FSA12-EU	5334	40	135		
LJT22-30ULG-FSA12-EU	6212	53	117		
LJT22-35ULG-FSA12-EU	6398	53	121		
LJT22-40ULG-FSA12-EU	6497	53	123		
LJT22-50ULG-FSA12-EU	7075	53	133		



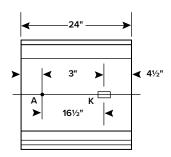


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## **DIMENSIONS**

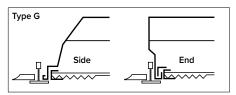


A -  $\frac{7}{8}$ " Diameter Knockout K - 2" × 3" through hole for access plate

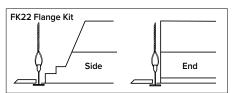


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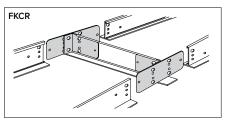
### **CEILING COMPATIBILITY**



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 FK22 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance.



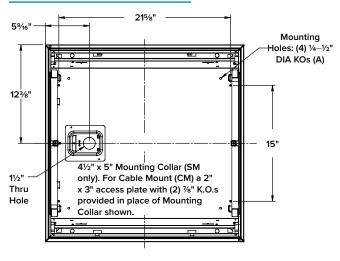
For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK22 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK22 & (1) FKCR)

Row cut out dimensions using FK22 & FKCR adapters:

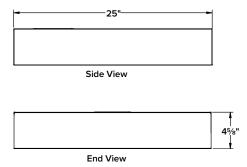
Width 24%", Length [24" × (# in row)] + 34". Example: (24" × 2) + 38"= 4838"

Flange kit rough in dimensions for single unit only: 243/8" × 243/8"

#### SURFACE MOUNT OR CABLE MOUNT



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



### **SURFACE MOUNT**

Order SM ceiling type. Mounting collar required for surface mounting. (4) Mounting knock-outs,  $\frac{1}{2}$ " to  $\frac{1}{2}$ " 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 representative. Mounting knock-outs, ¼" to ½", provided as shown, marked "A".







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# **PHOTOMETRY**

### **LUMINAIRE DATA**

Luminaire	LJT22-40LWG-FSA12-EU
	LJT LED, Lensed Troffer
	2' X 2' LED with A12 pattern acrylic prismed lens
Ballast	XI040C110V054BST1
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	2518
Watts	23.70
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.14 90° = 1.20
Luminous Opening in feet	Length:1.92 Width: 1.92 Height: 0.00

### **ENERGY DATA**

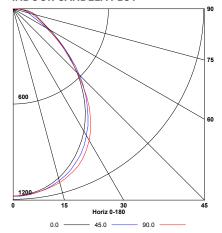
Total Luminaire Efficiency	100.0%
Total Lumens per Watt	106
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$2.29 based on 3000 hrs. and \$0.08 per KWH

### **ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt.
0-30	889	35.3	35.3
0-40	1401	55.6	55.6
0-60	2157	85.7	85.7
0-90	2518	100.0	100.0
0-180	2518	100.0	100.0

#### Test 16378 Test Date 06/30/2016

### **INDOOR CANDELA PLOT**



Test 16381 Test Date 07/13/2016

### **LUMINAIRE DATA**

Luminaire	LJT22-40MLG-FSA12-EU
	LJT LED, Lensed Troffer
	2' X 2' LED with A12 pattern acrylic prismed lens
Ballast	XI040C110V054BST1
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	3419
Watts	31.30
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.14 90° = 1.20
Luminous Opening in feet	Length:1.92 Width: 1.92 Height: 0.00

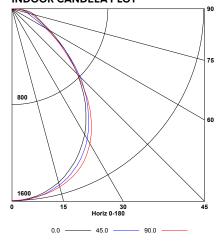
### **ENERGY DATA**

Total Luminaire Efficiency	100.0%
Total Lumens per Watt	109
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$2.18 based on 3000 hrs. and \$0.08 per KWH

## **ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt.
0-30	1209	35.3	35.3
0-40	1903	55.7	55.7
0-60	2930	85.7	85.7
0-90	3419	100.0	100.0
0-180	3419	100.0	100.0

## **INDOOR CANDELA PLOT**



Test 16384 Test Date 07/13/2016

# LUMINAIRE DATA

Luminaire	LJT22-40HLG-FSA12-EU LJT LED, Lensed Troffer 2' X 2' LED with A12 pattern acrylic prismed lens
Ballast	XI040C110V054BST1
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	3743
Watts	32.70
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.14 90° = 1.20
Luminous Opening in feet	Length:1.92 Width: 1.92 Height: 0.00

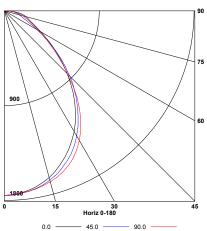
# ENERGY DATA

Total Luminaire Efficiency	100.0%
Total Lumens per Watt	114
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$2.12 based on 3000 hrs. and \$0.08 per KWH

# **ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt.
0-30	1321	35.3	35.3
0-40	2081	55.6	55.6
0-60	3206	85.7	85.7
0-90	3743	100.0	100.0
0-180	3743	100.0	100.0

## **INDOOR CANDELA PLOT**



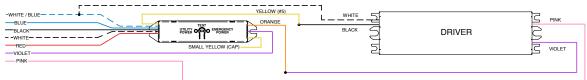






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# DTS WIRING DIAGRAM (0-10V DIMMING DRIVER SHOWN)



WHITE/BLUE	Emergency Neutral
BLUE	Emergency Line
BLACK	Utility Line (Unswitched Hot)
WHITE	Utility Neutral
RED	Switched Hot
VIOLET	Dimming
PINK	Dimming
	Dillining

