

LCAT-S-LSCS

LED CONTEMPORARY ARCHITECTURAL TROFFER - SHALLOW

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

FEATURES

- Light weight, low profile construction for crowded ceilings and shallow plenums
- Switchable Lumen technology:
2750/3300/4400 lumens (2x2 size)
4200/5200/6000 lumens (1x4, 2x4 size)
- Universal voltage, 120-277V
- Switchable CCT technology: 3500/4000/5000K
- High efficiency acrylic center lens features linear prisms for high performance without pixelation
- High performance reflector with matte white paint standard
- 1-10V dimming to 10%, standard
- Appropriate for offices, schools, medical, and public spaces



SPECIFICATIONS

CONSTRUCTION

- Luminaire housing, reflectors and end caps are die-formed code-gauge cold-rolled steel
- All reflective surfaces are finished after fabrication with unique formula high-reflectivity matte white paint for soft, uniform indirect illumination

OPTICS

- Removable lens for easy access to LED module
- High transmission extruded acrylic enclosed lens features linear prisms with custom frost for high efficacy without pixelation

INSTALLATION

- An access plate is furnished with each luminaire for fast wiring access without the necessity to open the fixture or wireway

INSTALLATION (CONTINUED)

- Luminaire fits recessed exposed Grid ceilings (G); four integral NEC compliant T-bar clips are standard
- Can be placed in Slot Grid (SG) style ceiling with regress 3/8" above ceiling plane
- A Flange Kit (FK) accessory is available for recessed hard ceiling applications

ELECTRICAL

- 54,000 hour LEDs at L70 for reduced maintenance
- 80 CRI standard
- 1V minimum low-end trim recommended when paired with a 0-10V dimmer

CERTIFICATIONS

- IC label is standard for recessed products. Note that IC label is void if product is installed on site with a combination of both battery pack plus through wiring or for air return fixture



Typical Dimensions and Weights				
Sizes	(A) Length Inches (mm)	(B) Width Inches (mm)	(C) Height Inches (mm)	Weight lbs (kg)
1x4	47.72 (1212)	11.73 (298)	2.3 (58)	9 (4.1)
2x2	23.73 (603)	23.77 (604)	2.3 (58)	9 (4.1)
2x4	47.72 (1212)	23.77 (604)	2.25 (57)	14 (6.4)



CERTIFICATIONS (CONTINUED)

- All luminaires are built to UL1598, and bear appropriate cCSAus labels
- CSA certified to UL 924 standards with battery pack option
- Damp Location label standard
- UL Sanitation certified to NSF standards
- Adheres to LM79, LM80, and TM21 industry standards
- 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](#)
- DLC® (DesignLights Consortium) Qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org

WARRANTY

- 5 year warranty

STOCK GUIDE

Catalog No.	UPC	Description	Setting	Lumens			Watts	LPW		
				3500K	4000K	5000K		3500K	4000K	5000K
<input type="checkbox"/> LCAT14-S-LSCS	840141415574	1X4 LED Contemporary Architectural Troffer - Shallow, Lumen Switchable, CCT Switchable, 120-277V	LOW	4510	4854	4772	30	146	162	155
			MED	5692	6205	6025	40	140	157	148
			HIGH	6469	7129	6839	47	135	154	144
<input type="checkbox"/> LCAT22-S-LSCS	840141415581	2X2 LED Contemporary Architectural Troffer - Shallow, Lumen Switchable, CCT Switchable, 120-277V	LOW	3032	3203	3141	20	152	164	159
			MED	3518	3730	3629	23	150	162	156
			HIGH	4649	5031	4816	33	142	157	147
<input type="checkbox"/> LCAT24-S-LSCS	840141415598	2X4 LED Contemporary Architectural Troffer-Shallow, Lumen Switchable, CCT Switchable, 120-277V	LOW	4510	4854	4772	30	146	162	155
			MED	5692	6205	6025	40	140	157	148
			HIGH	6469	7129	6839	47	135	154	144

ACCESSORY ORDERING GUIDE

Accessories (Order Separately)		
FK14	1' x 4' Single Flange Kit (Shipped separately)	
FK22	2' x 2' Single Flange Kit (Shipped separately)	
FK24	2' x 4' Single Flange Kit (Shipped separately)	

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Example: LCAT24-LSCS-ELL14

LCAT		LSCS		Options	
Model	Size	Lumen Output			
LCAT	14 1'x4'	LSCS Lumen & CCT Switchable ¹		ELL14	10W Emergency Battery Pack (CEC Title 20 Compliant) Installed ²
	22 2'x2'			C588	5-wire Flex
	24 2'x4'				

Notes:

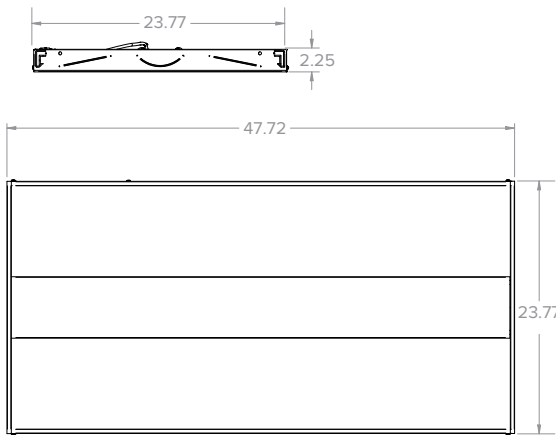
- Default settings are 4000K CCT and the MED lumen setting
- To determine the lumen output in emergency mode, multiply the battery wattage by the fixture lumens per watt (LPW)

PROJECTED LUMEN MAINTENANCE

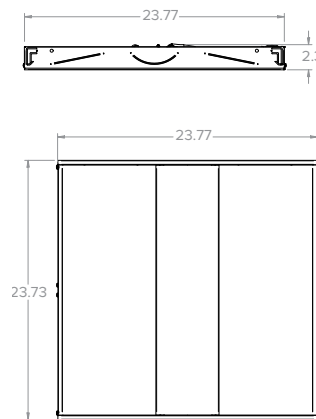
Calculation Method	Ambient Temp	25,000 hrs	50,000 hrs	60,000 hrs *
TM-21-11	25C/77F	0.93	0.87	0.85
TM-21-22	25C/77F	0.93	0.86	0.83

* Lumen maintenance values calculated per TM-21 using six times the LM-80 test time for the LED and in-situ thermal testing of the luminaire.

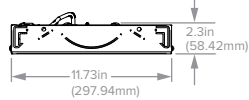
2X4 GRID CEILING



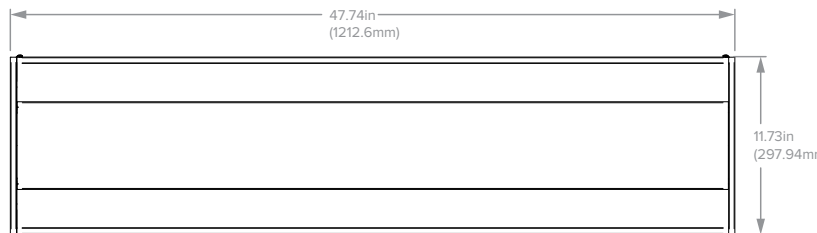
2X2 GRID CEILING



1X4 GRID CEILING



Grid, recessed section

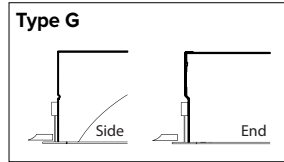


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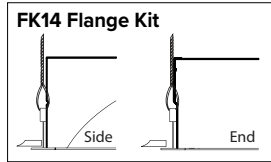
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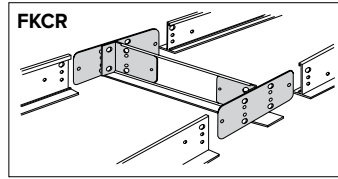
1X4 CEILING COMPATIBILITY



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.

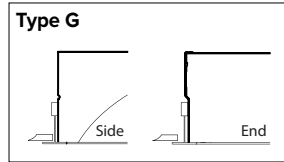


For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK14 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK14 & (1) FKCR)

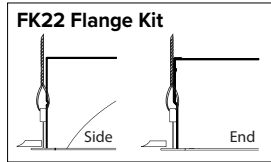
Row cut out dimensions using FK14s & FKCR adapters:
Width 12 $\frac{3}{8}$ ", Length [48" \times (# in row)] + $\frac{3}{8}$ ".
Example: (48" \times 2) + $\frac{3}{8}$ " = 96 $\frac{3}{8}$ "

Flange kit cut out dimension for single unit only: 12 $\frac{3}{8}$ " \times 48 $\frac{3}{8}$ "

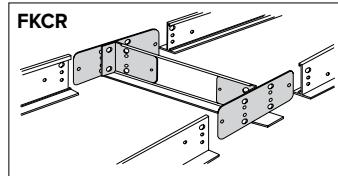
2X2 CEILING COMPATIBILITY



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.

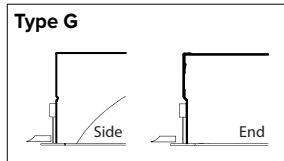


For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK22 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK22 & (1) FKCR)

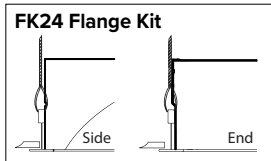
Row cut out dimensions using FK22s & FKCR adapters:
Width 24 $\frac{3}{8}$ ", Length [24" \times (# in row)] + $\frac{3}{8}$ ".
Example: (24" \times 2) + $\frac{3}{8}$ " = 48 $\frac{3}{8}$ "

Flange kit cut out dimension for single unit only: 24 $\frac{3}{8}$ " \times 24 $\frac{3}{8}$ "

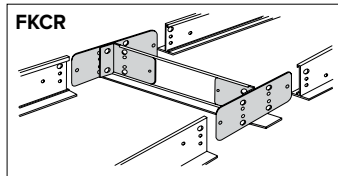
2X4 CEILING COMPATIBILITY



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 $\frac{3}{8}$ ", Length [48" \times (# in row)] + $\frac{3}{8}$ ".
Example: (48" \times 2) + $\frac{3}{8}$ " = 96 $\frac{3}{8}$ "

Flange kit cut out dimension for single unit only: 24 $\frac{3}{8}$ " \times 48 $\frac{3}{8}$ "

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