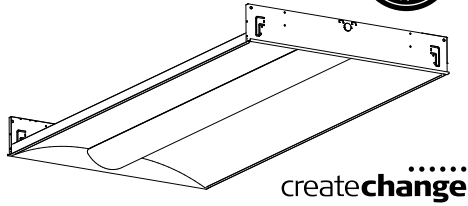


LED



createchange

FEATURES

- Attractive architectural center lens
- High efficiency acrylic center lens features linear prisms for high performance without pixelation
- Appropriate for offices, schools, medical, and public spaces
- High performance reflector with matte white paint standard
- 60,000 hour LEDs at L80 (up to 150,000 projected life) for reduced maintenance
- Four LED color choices and 80 CRI
- Eight lumen packages
- Multiple driver options to satisfy different applications
- LED modules and electrical accessible from below
- Optional architecturally styled integration of daylight and occupancy sensor(s)
- QR code traceability
- Integral battery pack optional on most models
- Compatible with Dual-Lite inverters
- Recessed, surface or cable mount
- Air return option
- DesignLights Consortium® (DLC) qualified
- Five year warranty (Terms and Conditions apply)

PROJECT INFORMATION

Project Name _____

Type _____

Catalog No. _____

Date _____

CONSTRUCTION

Luminaire housing, reflectors and end caps are die formed code gauge cold rolled steel. High transmission extruded acrylic enclosed lens features linear prisms with custom frost for high efficacy without pixelation.

SHIELDING

Removable lens for easy access to LED module and electrical components.

FINISH

All reflective surfaces are finished after fabrication with unique formula high reflectivity matte white paint for soft, uniform indirect illumination.

INSTALLATION

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

CEILING COMPATIBILITY

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. Surface Mount (SM) option allows placement below ceiling plane. Cable Mount (CM) option allows suspension below ceiling plane.

CERTIFICATION

All luminaires are built to UL1598 and 2108 standards, and bear appropriate CSA labels. Damp location is standard. Emergency-equipped fixtures labeled UL 924 and Dry Location unless specified. Adheres to LM79, LM80, and TM21 industry standards. DesignLights Consortium® (DLC) qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org.

IC RATING

IC label is standard for recessed products. Note that IC label is void if product is installed on site with a combination of both step-dimming (ESD) driver plus through wiring or for air return fixtures.

WARRANTY

Five year warranty (Terms and Conditions apply).

ORDERING INFORMATION

EXAMPLE LCAT24-35MLG-ESDU

LCAT		24													
MODEL		COLOR TEMPERATURE		CEILING TYPE		AIR FUNCTION		VOLTAGE		OPTIONS					
LCAT	LED Contemporary Architectural Troffer	30	3000K	G	Grid Lay-in ¹	Blank	Static	U	120V-277V	ELL14	Emergency Battery Pack Installed, 1400 Lumens ^{4,5}				
		35	3500K	SM	Surface Mount ²	A	Air Return Side Slots	347	347V	C388	3-Wire Flex				
		40	4000K	CM	Cable Suspended Mount ^{2,3}					C488	4-Wire Flex				
		50	5000K							C588	5-Wire Flex				
SIZE		LUMEN OUTPUT		DRIVER						GLR	Fast Blow Fuse				
24	2' x 4'	XW	Extra Low Watt	E	Fixed Output					NYC	NYC Compliant				
		VW	Very Low Watt	ESD	Step Dimming ⁴					EOR	End of Row (SM and CM only. Provides end wiring access for continuous row mounting.) ²				
		MW	Medium Low Watt	ED	0-10V Dimming					INT	Intermediate (SM and CM only. Provides ends with wiring access for continuous row mounting.) ²				
		LW	Low Watt	ED1	0-10V 1% Dimming					CP	Chicago Plenum				
		ML	Medium Lumen	LUTH	Lutron H Series 1% Dimming ^{4,5}					ODP	Occupancy and Daylight Sensors, Philips ^{4,6}				
		HL	High Lumen	LUTS	Lutron S Series 5% Dimming ^{4,5}										
		VL	Very High Lumen												
		XL	Extra High Lumen												
			See Product Availability Table below.												
PRODUCT AVAILABILITY		2X4 DRIVER AVAILABILITY TABLE						ACCESSORIES (ORDER SEPARATELY)							
LUMEN PACKAGE	NOMINAL LUMENS	NOMINAL WATTS	LUMENS PER WATT		XW	VW	MW	LW	ML	HL	VL	XL	FK24	2' x 4' Single Flange Kit (Shipped separately)	
24	XW	2600-2800	24		X	X	X	X	X	X	X	X			
24	VW	3200-3450	30		X	X	X	X	X	X	X	X			
24	MW	3500-3800	33		X	X	X	X	X	X	X	X			
24	LW	4100-4700	40					X	X	X	X	X			
24	ML	4400-5150	40												
24	HL	5350-6200	47												
24	VL	6800-7800	65												
24	XL	7800-9250	80												
Nominal lumen range represents 3000K through 5000K. Lumens vary according to color temperatures and other factors. See specific photometric test(s).														CM48Y2SC3F-KIT	48" Cable Mount Kit for 2' wide Cable Mount fixtures, 3 Wire

Test LCAT24-35LWG-EDU Test Date 12/15/2014

PHOTOMETRIC DATA

LUMINAIRE DATA

Luminaire	LCAT24-35LWG-EDU LCAT Led Architectural Troffer, Recessed Architectural 2 x 4 led with frosted linear prism lens
Ballast	D10CC55UNVTZ-C
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	4170
Watts	39.70
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.21 90° = 1.31
Luminous Opening in Feet	Length: 3.94 Width: 1.88 Height: 0.00

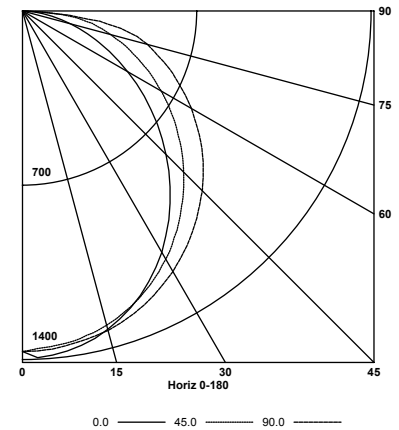
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1062	25.5	25.5
0-40	1739	41.7	41.7
0-60	3100	74.4	74.4
0-90	4170	100.0	100.0
0-180	4170	100.0	100.0

ENERGY DATA

Total Luminaire Efficiency	100.0%
Total Lumens per Watt	105
IESNA RP-1-2004 Compliance	Non-Compliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$2.31 based on 3000 hrs. and \$0.08 per KWH

INDOOR CANDELA PLOT



Test LCAT24-35MLG-EDU Test Date 1/14/2015

LUMINAIRE DATA

Luminaire	LCAT24-35MLG-EDU LCAT Led Architectural Troffer, Recessed Architectural 2 x 4 led with frosted linear prism lens
Ballast	D10CC55UNVTZ-C
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	4790
Watts	39.80
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.21 90° = 1.33
Luminous Opening in Feet	Length: 3.92 Width: 1.90 Height: 0.00

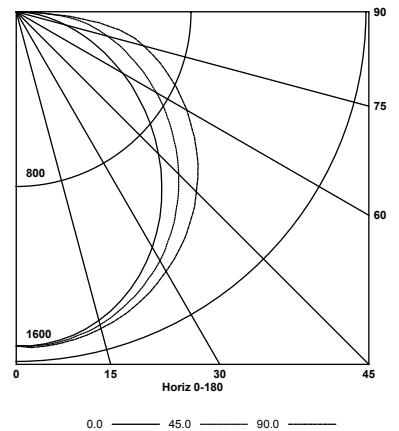
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1198	25.0	25.0
0-40	1967	41.1	41.1
0-60	3526	73.6	73.6
0-90	4790	100.0	100.0
0-180	4790	100.0	100.0

ENERGY DATA

Total Luminaire Efficiency	100.0%
Total Lumens per Watt	120
IESNA RP-1-2004 Compliance	Non-Compliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$2.00 based on 3000 hrs. and \$0.08 per KWH

INDOOR CANDELA PLOT



Test LCAT24-35HLG-EDU Test Date 1/14/2015

LUMINAIRE DATA

Luminaire	LCAT24-35HLG-EDU LCAT Led Architectural Troffer, Recessed Architectural 2 x 4 led with frosted linear prism lens
Ballast	D10CC55UNVTZ-C
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	5587
Watts	47.20
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.21 90° = 1.33
Luminous Opening in Feet	Length: 3.92 Width: 1.90 Height: 0.00

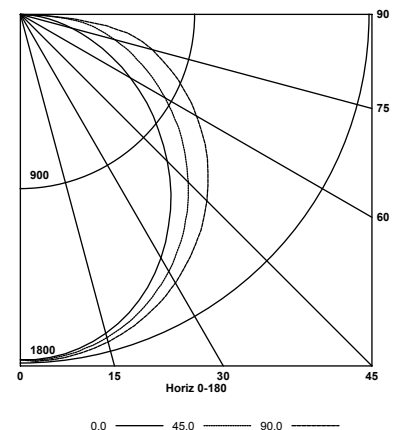
ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1397	25.0	25.0
0-40	2293	41.0	41.0
0-60	4112	73.6	73.6
0-90	5587	100.0	100.0
0-180	5587	100.0	100.0

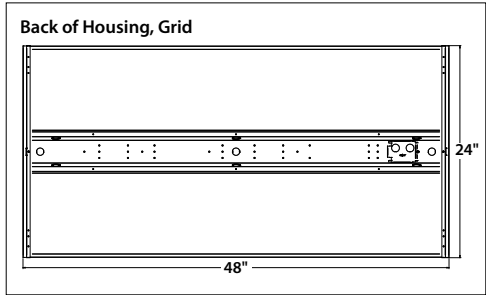
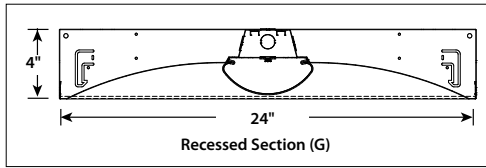
ENERGY DATA

Total Luminaire Efficiency	100.0%
Total Lumens per Watt	118
IESNA RP-1-2004 Compliance	Non-Compliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$2.02 based on 3000 hrs. and \$0.08 per KWH

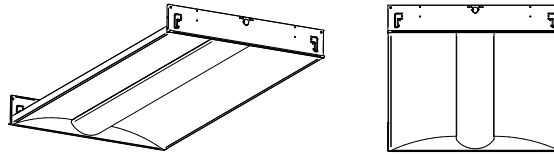
INDOOR CANDELA PLOT



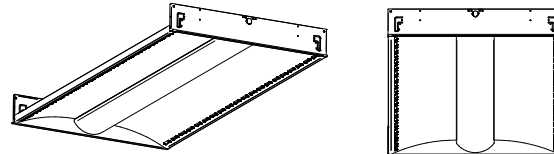
DIMENSIONAL DATA — GRID



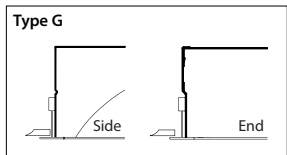
GRID, STATIC



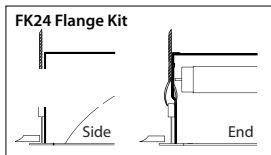
GRID, AIR RETURN



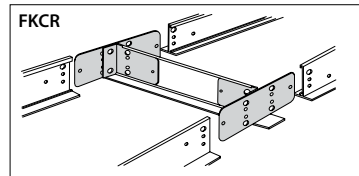
CEILING COMPATIBILITY



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.



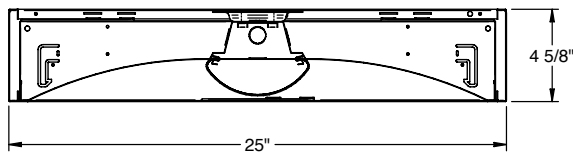
For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK24 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK24 & (1) FKCR)

Row cut out dimensions using FK24s & FKCR adapters:
Width $24\frac{3}{8}$ ", Length $[48" \times (\# \text{ in row})] + \frac{3}{8}"$
Example: $(48" \times 2) + \frac{3}{8}" = 96\frac{3}{8}"$

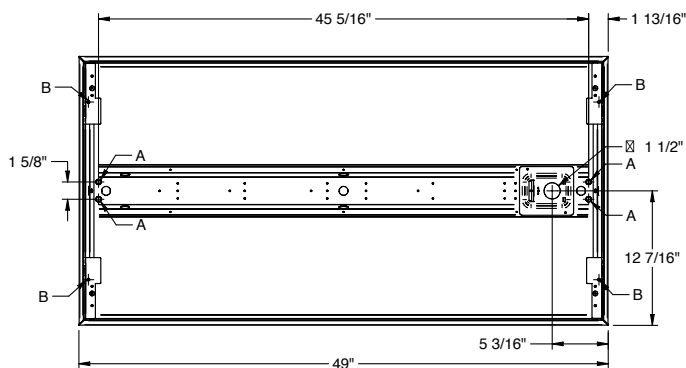
Flange kit cut out dimension for single unit only: $24\frac{3}{8}" \times 48\frac{3}{8}"$

DIMENSIONAL DATA — SURFACE MOUNT OR CABLE MOUNT, STATIC ONLY

Surface Section (SM)



Back of Housing, Surface Mount (SM) and Cable Mount (CM)



Surface Mount:

Order SM ceiling type. Mounting collar required for surface mounting. (4) Mounting knock-outs, $\frac{3}{8}"$, provided in center channel as indicated at left, marked A.

Cable Mount:

Order CM ceiling type. Use CM48Y2SC3F-KIT 48" Cable Mount Kit for 2' wide CM trim fixtures. Mounting holes are provided in diagonal straps shown at left, marked B.

* For Cable Mount a 2" x 3" access plate with (4) $\frac{7}{8}"$ KOs provided in place of Mounting Collar shown.

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