



Job Name:
Lighting Renovation Upgrade

Catalog Number:

LCAT24-35(MODIFIED WATTAGE 22
WATTS 2100 LUMENS)G-EDU

Notes:

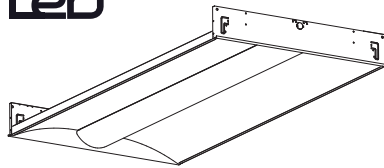
Type:**B1**

LED15-10524

Columbia
LIGHTING

LCAT24

2' x 4' LED Lite Commercial Architectural Troffer

LED

createchange

FEATURES

- 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
- Five lumen packages
- LED modules and electrical accessible from below
- QR code traceability
- Integral battery pack optional on most models
- Compatible with Dual-Lite inverters
- Recessed, surface or cable mount
- Available with exclusive wiHUBB technology preinstalled
- 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 LM70, LM80, and TM21 industry standards.

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.

WARRANTY

Five year warranty (Terms and Conditions apply).

ORDERING INFORMATION**EXAMPLE LTR24-35MLG-ESDU**

LCAT		24	-					U	-	90 CRI	
MODEL		COLOR TEMPERATURE		CEILING TYPE		VOLTAGE		OPTIONS			
LCAT Lite Commercial Architectural Troffer		30 3000K		G Grid Lay-in ¹	SM Surface Mount	U 120V-277V		ELL14	Emergency Battery Pack Installed, 1400 Lumens ³		
		35 3500K		CM Cable Suspended Mount ²				C388	3-Wire Flex		
		40 4000K						C488	4-Wire Flex		
		50 5000K						C588	5-Wire Flex		
SIZE		LUMEN OUTPUT		DRIVER							
24	2' x 4'	LW Low Watt		E Fixed Output				GLR	Fast Blow Fuse		
		ML Medium Lumen		ESD Step Dimming				NYC	NYC Compliant		
		HL High Lumen		ED 0-10V Dimming				WIH	wiHUBB Enabled ^{4,5}		
		VL Very High Lumen						EOR	End of Row (SM and CM only. Provides end wiring access for continuous row mounting.)		
		XL Extra High Lumen						INT	Intermediate (SM and CM only. Provides ends with wiring access for continuous row mounting.)		
See Product Availability Table below.											

PRODUCT AVAILABILITY				
SIZE	LUMEN PACKAGE	NOMINAL LUMENS	NOMINAL WATTS	LUMENS PER WATT
24	LW	4100-4700	40	103-117
24	ML	4400-5150	40	110-129
24	HL	5350-6200	47	114-132
24	VL	6800-7800	65	105-121
24	XL	7800-9250	80	92-110

Nominal lumen range represents 3000K through 5000K.
Lumens vary according to color temperatures and other factors.
See specific photometric test(s).

ACCESSORIES (ORDER SEPARATELY)

FK24 2' x 4' Single Flange Kit (Shipped separately)

CM48Y2SC3F-KIT 48" Cable Mount Kit for 2' wide Cable Mount fixtures, 3 Wire

Factory Modified Wattage 22 watts

¹ For drywall, order G with Flange Kit Accessory.

² Order hanger accessories separately.

³ For compatibility with Dual-Lite LiteGear® inverters, contact Hubbell Lighting Representative.

⁴ In-Fixture Module Antenna adds 2" to overall fixture height at power feed location.

⁵ Not available on Surface Mount Ceiling Types.

For questions about configuration options, contact Hubbell Representative.

Provide letter from factory stating they will provide custom 22 Watt 2x4 fixture for this project



Job Name:
Lighting Renovation Upgrade

Catalog Number:
LCAT24-35(MODIFIED WATTAGE 22
WATTS 2100 LUMENS)G-EDU

Notes:

Type:

B1

LED15-10524

Columbia
LIGHTING

LCAT24

2' x 4' LED Lite Commercial Architectural Troffer

PHOTOMETRIC DATA

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

LUMINAIRE DATA

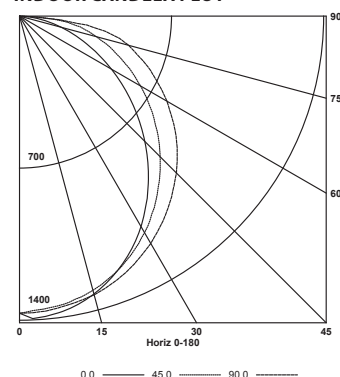
Luminaire	LCAT24-35LWG-EDU LCAT Led Architectural Troffer, Recessed Architectural 2 x 4 led with frosted linear prism lens
Ballast	D10CC55UNVTZ-C
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	4170
Watts	39.70
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.21 90° = 1.31
Luminous 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**LUMINAIRE DATA**

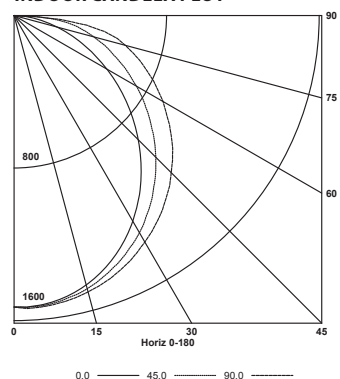
Luminaire	LCAT24-35MLG-EDU LCAT Led Architectural Troffer, Recessed Architectural 2 x 4 led with frosted linear prism lens
Ballast	D10CC55UNVTZ-C
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	4790
Watts	39.80
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.21 90° = 1.33
Luminous 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 LCAT24-35MLG-EDU Test Date 1/14/2015

LUMINAIRE DATA

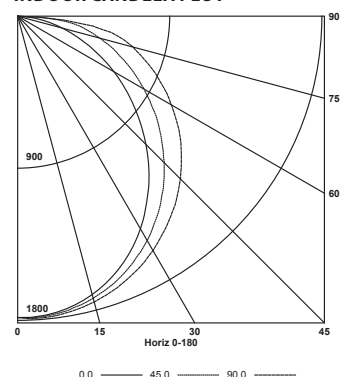
Luminaire	LCAT24-35HLG-EDU LCAT Led Architectural Troffer, Recessed Architectural 2 x 4 led with frosted linear prism lens
Ballast	D10CC55UNVTZ-C
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	5587
Watts	47.20
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.21 90° = 1.33
Luminous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

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



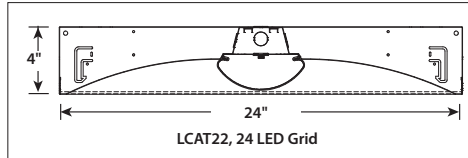
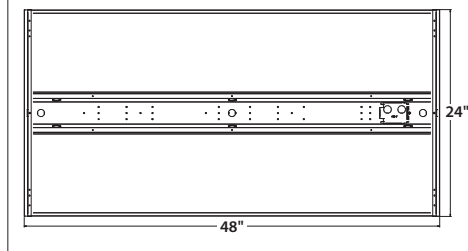
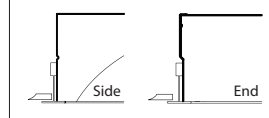
HUBBELL
Lighting

Columbia

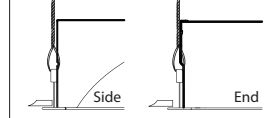
LIGHTING

LCAT24

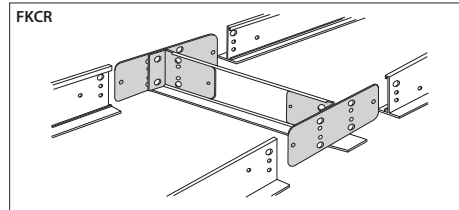
2' x 4' LED Lite Commercial Architectural Troffer

DIMENSIONAL DATA — GRID**Top View****CEILING COMPATIBILITY****Type G**

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

FK24 Flange Kit

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

FKCR

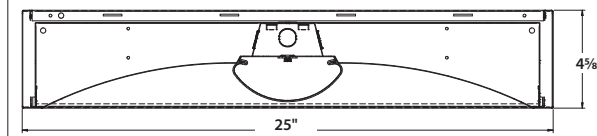
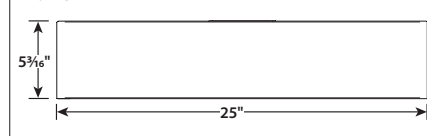
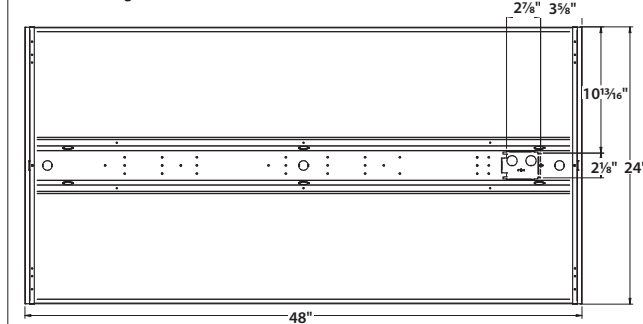
For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK24 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK24 & (1) FKCR)

Row cut out dimensions using 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**Surface Section (SM)****End View****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 SM trim fixtures. Mounting holes are provided in diagonal straps shown at left, marked "B".

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