Columbia LIGHTING

LCAT14
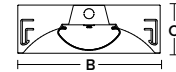### 1' × 4' LED CONTEMPORARY ARCHITECTURAL TROFFER

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

- LED modules and electrical accessible from below

- Optional architecturally styled integration of daylight and occupancy sensor(s)

- QR code traceability

- Compatible with Dual-Lite inverters

DLC LISTED | C CSA US | Built to UL 924 Standards | CP Chicago Plenum | TAA (IN ACCORDANCE WITH THE TRADE AGREEMENTS ACT)

Typical Dimensions and Weights

Sizes	(A) Length Inches (mm)	(B) Width Inches (mm)	(C) Height Inches (mm)	Weight lbs (kg)
1x4	47.75 (1213)	11.75 (298)	3.98 (101)	11.25 (5.1)

CONTROLS TECHNOLOGY

SpectraSync™ Color Tuning Technology | NX WIRELESS | NX WIRED | NX CONNECT | OCCUPANCY SENSING | DAYLIGHT HARVESTING

SPECIFICATIONS

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

- 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 and electrical components

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

- Luminaire fits recessed exposed Grid ceilings (G); four integral T-bar clips with holes for seismic wires are standard

- Can be placed in Slot Grid (SG) style ceiling with regress ⅜" 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

ELECTRICAL
- 60,000 hour LEDs at L80 for reduced maintenance

- 83 CRI standard or optional 90 CRI for color sensitive applications

CONTROLS
- Optional SpectraSync™ Tunable White solution integrates seamlessly into a variety of control systems

- NX Lighting Controls provides options for standalone and networked integrated sensor with wired or wireless connectivity for NX system deployments

- NX Connect is a standalone wireless deployment for room based application using wireless enabled and battery operated devices

CERTIFICATIONS
- Emergency battery pack options are California Energy Commission (CEC) Title 20 Compliant

- 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 fixtures

- All luminaires are built to UL1598 and bear appropriate cCSAus labels

- CSA certified to UL 924 standards with battery pack or DTS (Dimming Bypass Module) options

CERTIFICATIONS (CONTINUED)
- Damp Location label standard

- Adheres to LM79, LM80, and TM21 industry standards

- The DTS, Dimming Bypass Module, is for emergency circuit control loads including sensors and wireless systems CSA certified to UL 924.

- 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

Current

Columbia LIGHTING

DATE:	LOCATION:
TYPE:	PROJECT:
	CATALOG #:

LCAT14
1' × 4' LED CONTEMPORARY ARCHITECTURAL TROFFER

ORDERING GUIDE

Example: LCAT14–35MLG–ESDU

CATALOG # _____

LCAT14	—					—			—	
Model		**CRI**	**Color Temp**	**Nominal Lumens [2]**	**Ceiling Type**		**Shielding**	**Air Function**		**Driver [5]**

Model	**CRI**	**Color Temp**	**Nominal Lumens [2]**	**Ceiling Type**	**Shielding**	**Air Function**	**Driver [5]**
LCAT14 1' x 4' LED Contemporary Architectural Troffer	**Blank** >80 **9** >90	**30** 3000K **35** 3500K **40** 4000K **50** 5000K **2765T** 2700K–6500K SpectraSync™ Tunable White [1]	**XW** 2314-2651 **VW** 2984-3312 **MW** 3297-3662 **LW** 4018-4500 **ML** 4246-4748 **HL** 4063-5669 **VL** 6959-7749 **XL** 7424-8294	**G** Grid Lay-in [3] **SM** Surface Mount [4] **CM** Cable Suspended Mount [4]	**Blank** Curve **R** Rectangular	**Blank** Static **A** Air Return Side Slots	**E** Fixed Output **ED** 0–10V Dimming [6] **ED1** 0–10V 1% Dimming **EDD** 0–10V Dim-to-Off [7] **ESD** Step Dimming **LUTH** Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology [7,8] **DALIP** Powered by DALI [7,8]

	—		
Voltage		**Options**	**Control Options [13]**

Voltage	**Options**	**Control Options [13]**
U 120–277V **347** 347V	**ELL14** Emergency Battery Pack Installed, 1400 Lumens [8,9,10] **ELL14ST** Emergency Battery Pack, 1400 Lumens, Self Test [8,9,10] **ELL14H2** Emergency Battery Pack, 2-Hour Run Time [8,9,10,11] **DTS** Dimming Bypass Module [8,10,12] **C388** 3-wire Flex **C488** 4-wire Flex **C588** 5-wire Flex **GLR** Fast Blow Fuse **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	**NX Lighting Controls** _Networked Wireless_ **NXW** NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [14,15,16] **NXWSM** NX Networked Wireless Enabled Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [14,16] _Networked Wired_ **NXE** NX Wired Dual RJ45 SmartPORTS , without Sensor [14,15,16] **NXESM** NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [14,15,16] _Independent Control_ **NXCS** NX Connect NXC-WIZ20 Wireless Indoor Occupancy and Photocell Sensor [8,17,18,19,21] **Other Lighting Controls** _Networked Wireless_ **LVR** Lutron Vive Integral Fixture Control DFCSJ-OEM-RF (RF only) [8,19,20,21] **LVS** Lutron Vive Integral Fixture Control DFCSJ-OEM-OCC (RF with daylight and occupancy sensing) [8,19,20,21] **AWNR** Lutron Athena Integral Fixture Control A-WN-DO1-RF-WH (RF only) [8,16,19] _Independent Control_ **ODPG** Occupancy and Daylight Sensors w/ Grouping, Philips SNS200 [8,19,21]

Accessories

☐	**FK14**	1' × 4' Single Flange Kit (Shipped separately)
☐	**CM48Y1SC3F48**	48" Cable Mount Kit for 1' wide Cable Mount fixtures, 3-wire
☐	**SMK-LCAT 1x4**	1x4 Surface Mount Kit, Field Install

Notes:
1. Available with ED driver and 80 CRI only. Not available with VL or XL lumen package
2. Refer to performance tables for exact values and available lumen outputs for fixture size
3. For drywall, order G with flange kit accessory
4. Not available with Air Return (A) air function
5. Dimming curves may vary dependent upon lumen output and driver option chosen. Separate dimming circuits are recommended if multiple driver options are chosen.
6. 1V minimum low-end trim recommended when paired with a 0-10V dimmer
7. Not available in all lumen packages, refer to Driver Availability table
8. Not available with 347V
9. To determine lumen output in emergency mode, multiply the battery pack wattage by the fixture lumens per watt (LPW)
10. For compatibility with Dual-Lite Litegear inverters, contact lighting representative
11. Not available for use in Canada
12. For emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. See wiring diagram.

All Controls
13. Minimum ambient temperature: 0°C (32°F)

NX Lighting Controls Options
14. NX combined with SpectraSync is not available in 347V
15. Not compatible with Surface Mount Kit
16. Available with ED, ED1 or EDD drivers only
17. NX Connect devices can be configured using the NX Connect Mobile App, available in the Apple App Store
18. NX Connect devices are not compatible with NX Networked Wireless or Wired Options

Other Lighting Controls Options
19. Not available with SpectraSync
20. Vive is a trademark of Lutron Electronics Co., Inc.
21. Only available with DALIP driver option

Columbia LIGHTING

LCAT14
1' × 4' LED CONTEMPORARY ARCHITECTURAL TROFFER

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
E	X	X	X	X	X	X	X	X
ED	X	X	X	X	X	X	X	X
ED1	X	X	X	X	X	X	X	X
EDD		X	X	X	X	X		
ESD	X	X	X	X	X	X	X	X
LUTH	X	X	X	X	X	X		
DALIP		X	X	X	X	X	X	X
347	X	X	X	X	X	X		

DELIVERED LUMENS   (View 90 CRI data on supplemental document)

Product Availability 80 CRI					
Lumen Package	Shielding	Color	Lumens	Input Watts	LPW
XW		3000K	2403	18.8	128
		3500K	2622	18.6	141
		4000K	2651	18.6	143
		5000K	2651	18.6	143
	R	3000K	2314	18.8	123
		3500K	2491	18.6	134
		4000K	2519	18.6	136
		5000K	2519	18.6	136
VW		3000K	3086	24.5	126
		3500K	3276	24.5	134
		4000K	3312	24.5	135
		5000K	3312	24.5	135
	R	3000K	2984	24.4	122
		3500K	3168	24.4	130
		4000K	3203	24.4	131
		5000K	3203	24.4	131
MW		3000K	3412	27.3	125
		3500K	3622	27.3	133
		4000K	3662	27.3	134
		5000K	3662	27.3	134
	R	3000K	3297	27.3	121
		3500K	3500	27.3	128
		4000K	3538	27.3	130
		5000K	3538	27.3	130
LW		3000K	4193	32.4	129
		3500K	4451	32.4	137
		4000K	4500	32.4	139
		5000K	4500	32.4	139
	R	3000K	4018	32.4	124
		3500K	4266	32.4	132
		4000K	4313	32.4	133
		5000K	4313	32.4	133

Product Availability 80 CRI (continued)					
Lumen Package	Shielding	Color	Lumens	Input Watts	LPW
ML		3000K	4423	32.6	136
		3500K	4696	32.6	144
		4000K	4748	32.6	146
		5000K	4748	32.6	146
	R	3000K	4246	32.6	130
		3500K	4507	32.6	138
		4000K	4557	32.6	140
		5000K	4557	32.6	140
HL		3000K	5282	40.0	132
		3500K	5607	40.0	140
		4000K	5669	40.0	142
		5000K	5669	40.0	142
	R	3000K	5063	40.0	127
		3500K	5375	40.0	134
		4000K	5434	40.0	136
		5000K	5434	40.0	136
VL		3000K	7222	56.9	127
		3500K	7664	56.9	135
		4000K	7749	56.9	136
		5000K	7749	56.9	136
	R	3000K	6959	56.9	122
		3500K	7384	56.9	130
		4000K	7466	56.9	131
		5000K	7466	56.9	131
XL		3000K	7857	63.0	125
		3500K	8203	62.4	131
		4000K	8294	62.4	133
		5000K	8294	62.4	133
	R	3000K	7424	62.9	118
		3500K	7860	62.4	126
		4000K	7947	62.4	127
		5000K	7947	62.4	127

PROJECTED LUMEN MAINTENANCE

Calculation Method	Ambient Temp	25,000 hrs	50,000 hrs	60,000 hrs *
TM-21-11	25C/77F	0.94	0.89	0.87
TM-21-21	25C/77F	0.94	0.88	0.86

* 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.

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Page **3** of **8**
Rev 02/08/24

COL_LCAT14_spec_R01

NX LIGHTING CONTROLS

NX LIGHTING CONTROLS

Control Option Ordering Logic & Description			Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming		
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	✓	✓	✓	–	–	✓	✓	✓		NXRM2-H
	NXWSM	NX Networked Wireless Enabled Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	✓	✓	✓	✓	✓	✓	✓	✓		NXSMP2-SMI
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS , without Sensor	✓	✓	✓	–	–	✓	✓	✓₁		NXDSP
	NXESM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	✓	✓	✓	✓	✓	✓	✓	✓		NXDSP NXSMP2-SMI
NX Independent	NXCS	NX Connect NXC-WIZ20 Wireless Indoor Occupancy and Photocell Sensor	–	✓	–	✓	✓	✓	✓	✓₂		NXC-WIZ20

1 Requires NXBTC, order separately.

2 Requires use of NX Connect App available for download from Apple app store.

DEFAULT SETTINGS

NX Wireless & Wired

Occupancy Sensor	Enabled
Occupancy Sensor Sensitivity	7 Minutes
Occupancy Sensor Timeout	15 Minutes
Occupied Dim Level	100%
Unoccupied Dim Level	0% (OFF)
Daylight Sensor	Disabled
Bluetooth	Enabled
2.4GHz Wireless Mesh	Off
Passcode Factory Passcode: HubbN3T!	Enabled

NX Independent - NX Connect

Settling/Dwell Time	5 sec
Hold Time	10 min
Group Hold Time	10 min
Grace Time	-
Strategy	Auto ON/OFF
Occupancy Sensitivity	5 (highest)
Occupancy Indicator	ON
Partial Off/Standby	0%
Background Level	50%
Task Level	100%
Daylight Harvesting	-
Low Ambient Output	250%
High Ambient Output	OFF

CONTROLS TECHNICAL SUPPORT

1-800-888-8006 (7:00 am–7:00 pm est)

APP INFORMATION

NX Lighting Controls App

The NX Lighting Controls App is a free to use mobile application for programming both an NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enabled luminaires and program your NX system settings.

Android   Apple iOS

NX Connect App

The NX Connect mobile App is a free to use mobile application for programming a NX Connect System. The mobile App allows you to discover, configure and share your NX Connect system.
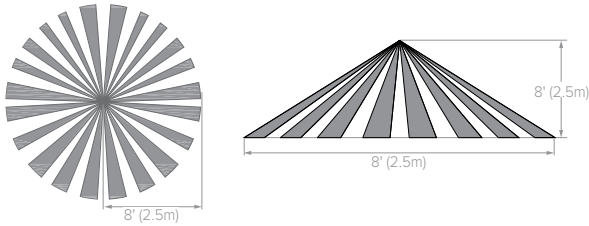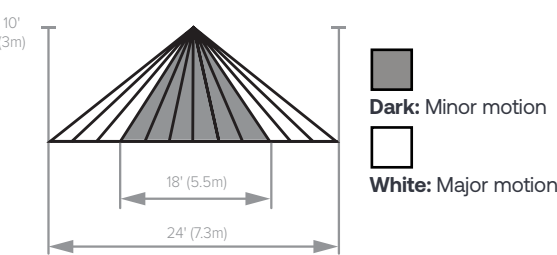
Apple iOS

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Page **4** of 8
Rev 02/08/24

COL_LCAT14_spec_R01

Columbia LIGHTING

LCAT14
1' × 4' LED CONTEMPORARY ARCHITECTURAL TROFFER

COVERAGE PATTERNS

NXWSM/NXESM (NXSMP2-SMI SENSOR)

8' (2.5m)

8' (2.5m)

8' (2.5m)

NXCS (NXC-WIZ20 SENSOR)

10' (3m)

18' (5.5m)

24' (7.3m)

Dark: Minor motion

White: Major motion

OTHER LIGHTING CONTROLS

Control Option Ordering Logic & Description			Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming		
Other	ODPG	Occupancy sensing, daylight harvesting and task tuning in one device.[1]	–	✓	–	✓	✓	✓	✓	✓[3]		SNS200
	LVR	The Vive integral fixture control is a radio frequency (RF) device that controls either Lutron EcoSystem or DALI drivers based on RF input from Pico remote controls, Radio Powr Savr wireless sensors, or Vive hubs. [2]	✓	✓	✓	–	–	–	✓	–		DFCSJ-OEM-RF
	LVS		✓	✓	✓	✓	✓	–	✓	–		DFCSJ-OEM-OCC
	AWNR	The Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system. [3]	✓	✓	–	–	–	✓	✓	–		A-WN-D01-RF-WH

1 Philips MasterConnect App required for field configuration.

2 Lutron Vive Hub required to enable Networking, Grouping and Scheduling.

3 Lutron Athena Hub required to enable Networking, Grouping and Scheduling.

Philips EasySense Controls (ODPG option) & Accessories:

- Occupancy sensing, daylight harvesting, task tuning and grouping in one device
- Standalone control or grouping to wireless switches[1]
- Uses Philips field apps for on site commissioning[2]
- Ability to create scenes for various room configurations
- Cost-effective solution for energy-savings and code-compliancy strategies
- DLC® Qualified: Listed on the QPL for Networked Lighting Controls. Please refer to the DLC website for specific product qualifications at www.designlights.org

1 Wireless switches only compatible with ODPG Philips EasySense

2 Requires android device or IR dongle.

Wireless Switch Accessories[1]

☐ PESR-WH   EasySense compatible wireless single rocker switch, white

☐ PEDR-WH   EasySense compatible wireless dual rocker switch, white

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Current

Columbia LIGHTING

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

LCAT14
1' × 4' LED CONTEMPORARY ARCHITECTURAL TROFFER

CONTROLS (CONTINUED)
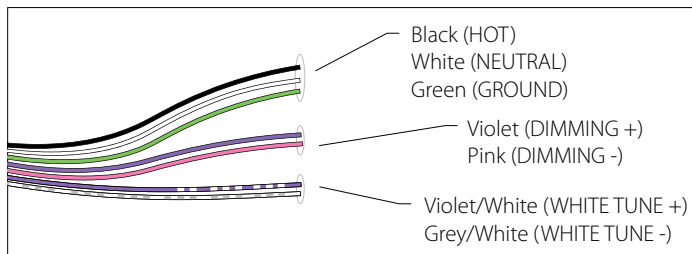
SpectraSync™ Color Tuning Technology:
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.

SpectraSync™ Color Tuning Technology

SPECTRASYNC COLOR TUNING TECHNOLOGY		
Mode	Kelvin Range	Description
Tunable White	2700K–6500K	Offers users the ability to tailor CCT to their personal preference, enhancing task visibility, material and colors or the aesthetics of the space

SpectraSync Tunable White
Requires two 0–10V controllers, one for intensity and one for CCT. Minimum 5% dimming.

Black (HOT)
White (NEUTRAL)
Green (GROUND)

Violet (DIMMING +)
Pink (DIMMING -)

Violet/White (WHITE TUNE +)
Grey/White (WHITE TUNE -)

SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

Controller Manufacturer Data
SpectraSync Tunable White was designed to be used with sinking style dimmers (provided by others) and is compatible with:
- NX Lighting Controls Room Controller (NXRC) and In-fixture Controllers (NXFM)
- Lutron: DVTV, DVSTV, and NFTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers

Color Tuning Profile

Channel 1
Channel 2
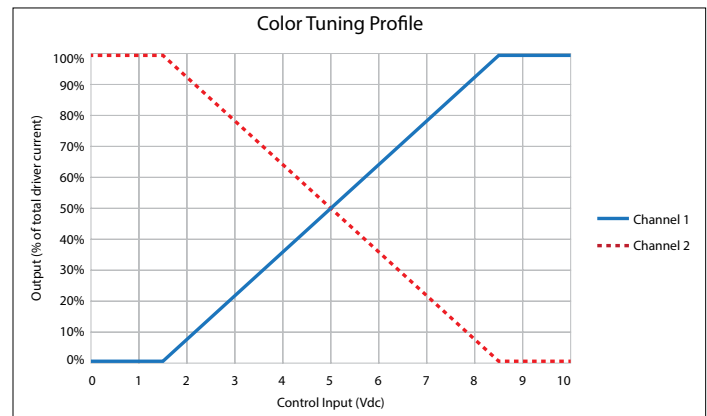
To enable scheduling and for use with NX wall control preset stations please refer to NX SpectraSync technical sheet.

DELIVERED LUMENS, SPECTRASYNC™

Shielding	Lumen Output	Watts	2700		3000		3500		4000		5000		6500	
			Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
Curve	XW	19	2200	113	2299	119	2340	121	2370	122	2448	126	2412	124
	VW	28	3012	110	3147	114	3204	116	3245	118	3352	122	3301	120
	MW	32	3499	108	3656	113	3722	115	3769	117	3894	121	3835	119
	LW	36	4188	116	4376	122	4455	124	4512	125	4660	129	4590	128
	ML	38	4487	117	4689	122	4773	125	4834	126	4994	130	4919	128
	HL	44	5173	118	5405	123	5502	125	5573	127	5756	131	5670	129
	VL	58	6501	113	6793	118	6915	120	7004	122	7235	126	7126	124
Rectangle	XW	21	2295	111	2398	116	2441	119	2472	120	2554	124	2516	122
	VW	28	2916	106	3047	111	3102	113	3141	114	3245	118	3196	116
	MW	32	3508	109	3666	113	3732	116	3780	117	3904	121	3846	119
	LW	36	4063	113	4246	118	4322	120	4378	122	4522	126	4454	124
	ML	38	4545	119	4749	124	4834	126	4896	128	5058	132	4982	130
	HL	44	5034	116	5260	121	5355	123	5423	125	5602	129	5518	127
	VL	58	6322	109	6606	114	6725	116	6811	118	7035	122	6930	120

Columbia LIGHTING

LCAT14
1' × 4' LED CONTEMPORARY ARCHITECTURAL TROFFER

DIMENSIONS

GRID

11.75"
(298mm)

3.98"
(101mm)
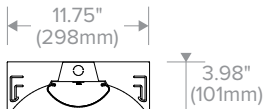
Grid, recessed section

47.75"
(1213mm)

11.75"
(298mm)
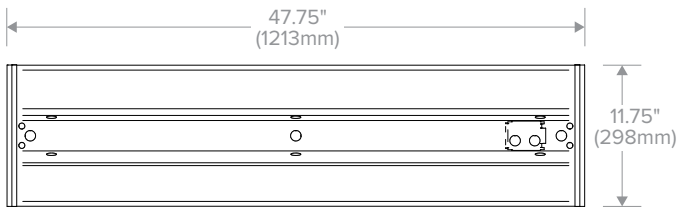
Grid, back of housing
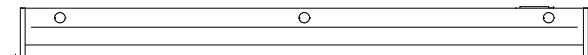
GRID, STATIC
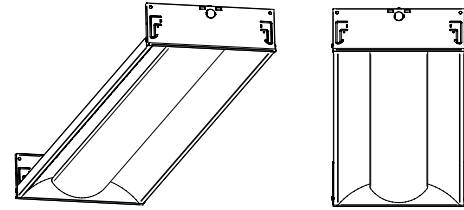
GRID, AIR RETURN
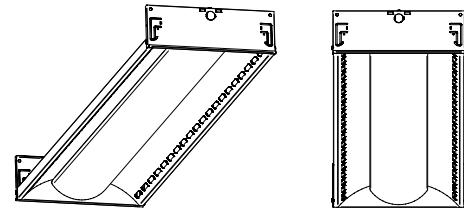
SURFACE MOUNT OR CABLE MOUNT, STATIC ONLY

45.31"
(1252.5mm)

1.81"
(46mm)

1.63"
(41.4mm)

B
A

1.5"

B

A

A

6.44"
(163.6mm)

B

49"
(1244.6mm)

5.19"
(131.8mm)
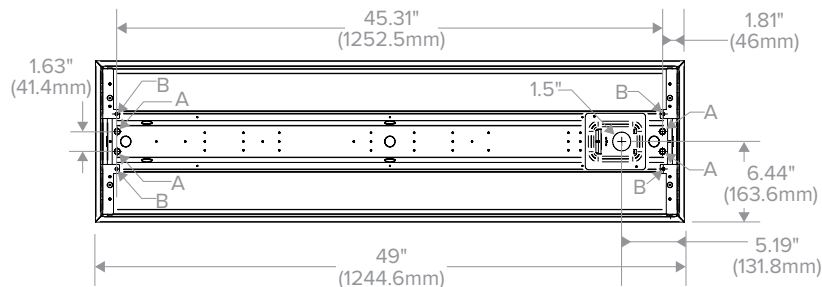
Surface Mount (SM) and Cable Mount (CM), back of housing

4.63"
(117.6mm)

13"
(330.2mm)
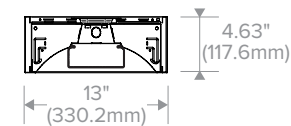
Surface section (SM)

Surface Mount:
Order SM ceiling type. Mounting collar required for surface mounting. (4) Mounting knock-outs, ⅜", provided in center channel as indicated at left, marked A.

Cable Mount:
Order CM ceiling type. Use CM48Y1SC3F48 48" Cable Mount Kit for 1' 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) ⅞" 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.
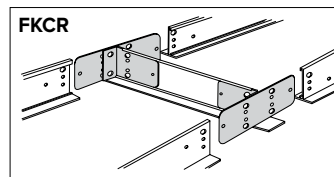
CEILING COMPATIBILITY

Type G

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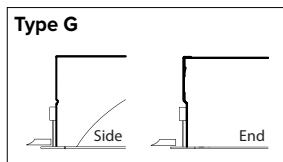
For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 2" allowed.

FK14 Flange Kit

Side　　　End
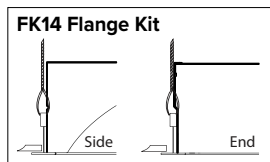
For hard ceiling applications, order FK14 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance.

FKCR

For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the 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 12⅜", Length [48" × (# in row)] + ⅜".
Example: (48" × 2) + 3/8" = 96⅜"

Flange kit cut out dimension for single unit only: 12⅜" × 48⅜"

Current

Columbia LIGHTING

LCAT14
1' × 4' LED CONTEMPORARY ARCHITECTURAL TROFFER

PHOTOMETRY

LCAT14-35MLG-EU

LUMINAIRE DATA

Test No.	**16480**
Description	**1' x 4' LED architectural troffer with frosted linear prismed lens**
Delivered Lumens	**4830**
Watts	**38.30**
Efficacy	**126**
Mounting	**Recessed**
Spacing Criterion	**0° = 1.23 90° = 1.30**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–30	1253	25.9
0–40	2054	42.5
0–60	3663	75.8
0–90	4830	100
0–180	4830	100

POLAR GRAPH

Horiz 0-180

0.0 ——— 45.0 ——— 90.0
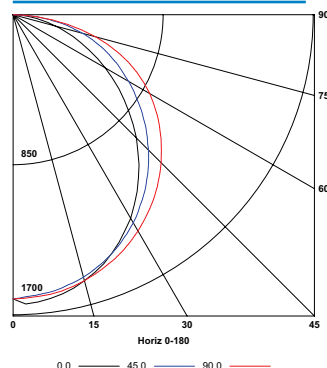
ADDITIONAL INFORMATION

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

Current