

LCAT

LED CONTEMPORARY ARCHITECTURAL TROFFER







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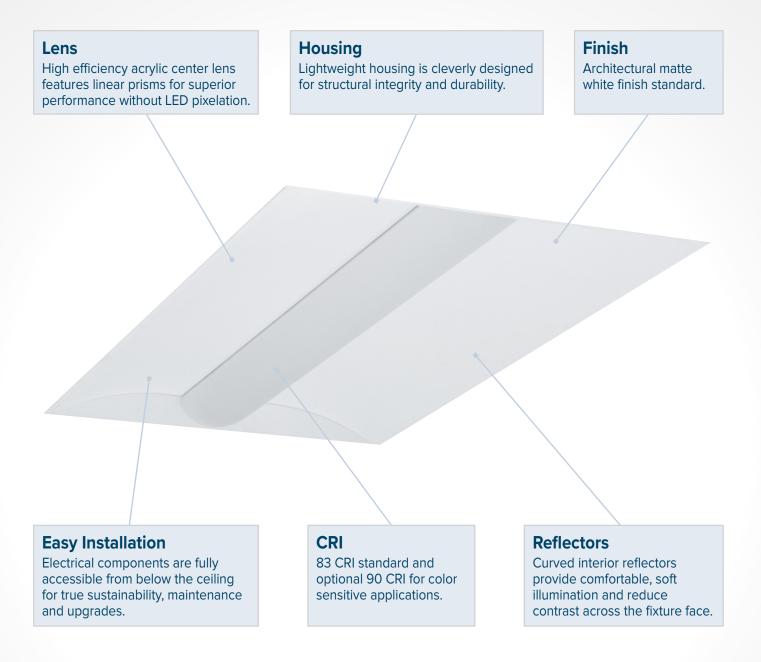
LED CONTEMPORARY ARCHITECTURAL TROFFER

LCAT provides both aesthetics and value with an architectural appearance and LED technology. With a full family of sizes, LCAT offers a wide range of options for classrooms, offices, retail and healthcare applications. LCAT can be ordered from stock, through Quick-Ship, or made to order for additional customization.

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A Wide Choice of Sizes, Lumen Packages, & Options



DLC

DLC® (DesignLights Consortium) Qualified, with some Premium Qualified configurations - see www.designlights.org





Multiple Shielding Options

Two attractive lens options to enhance any installation type.





A Full Family of Architectural Sizes



1'x2' A small scale, attractive option for corridors, conference rooms,

reception desks and architectural insets.



1'x4'

This sleek shape integrates seamlessly into architectural designs.



2'x2'

Add quiet elegance to commercial spaces with the simplicity and modularity of this popular form.



2'x4'

Replace existing luminaires or design for new installations with this appealing, graceful architectural troffer.

Product Availability 80 CRI							
Size	Lumen Package	Nominal Lumens	Watts	LPW			
	VW	1519-1730	13	114-130			
	MW	1744-1986	18	99-113			
12	LW	2676-3047	23	118-135			
	ML	3331-3794	29	116-132			
	HL	3584-4083	32	113-129			

Product Availability 80 CRI							
Size	Lumen Package	Nominal Lumens	Watts	LPW			
	XW	2299-2478	19	119-128			
	XWHE	2457-2648	19	127-136			
	VW	3147-3584	28	114-130			
	VWHE	3083-3511	24	128-146			
4.4	MW	3656-4164	32	113-129			
14	MWHE	3820-4351	31	125-142			
	LW	4376-4985	36	122-138			
	ML	4689-5341	38	122-139			
	HL	5405-6156	44	123-140			
	VL	6793-7738	58	118-135			

Product Availability 80 CRI							
PW							
5-131							
-138							
-130							
2-139							
-136							
-132							
-136							
-129							
5-136							
-126							
3-134							
-10 -10 -10 -10 -10							

	Product Availability 80 CRI							
Size	Lumen Package Nominal Lumens Watts		Watts	LPW				
	XW	2341-2524	19	123-132				
	XWHE	2458-2650	19	129-139				
	VW	3124-3558	28	113-129				
	VWHE	3310-3770	27	123-140				
	MW	3363-3831	30	111-127				
24	MWHE	3717-4234	31	121-138				
	LW	4268-4861	36	118-135				
	ML	4771-5434	39	123-140				
	HL	5443-6200	44	124-141				
	VL	6999-7972	59	119-135				
	XL	8168-9304	74	111-126				

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

Diverse Installation Options with a Consistent Look

Flange Kit

Recessed hard ceilings are simple and straightforward with the FK (flange kit) accessory available on all sizes. Continuous row (CR) also available on most configurations.

Surface & Cable Mount

LCAT offers an optional surface mount for areas where a recessed ceiling is not available. A cable mount option is offered for high or obstructed ceilings where a matching suspended luminaire is optimal.



For retrofit opportunities where existing luminaire housings can be utilized, SLK LED troffer conversion kit matches the appearance of LCAT24 and LCAT22.



Optional Air Return

Slots along the housing edge allow air return to the HVAC when this option is specified. Air return is available in all sizes.



Customize with Practical Options

LED drivers

A wide range of drivers make LCAT flexible and controls friendly. Choose from 0-10V dimming, 0-10V dimming to 1%, Lutron Series 5, Lutron H, fixed output and stepped output.

Egress

Life safety compatibility for security and code compliance:

- Integral LED NiCAD battery or
- Remote mounted Dual-Lite inverter systems
- Integral Dimming Bypass Module

Color Temperatures

3000K, 3500K, 4000K and 5000K corrected color temperatures are well suited to office, education, health care and retail applications. For color consistency across the ceiling plane, LCAT maintains a 3-Step MacAdam ellipse within the fixture, from fixture-fixture, and over time.

Controls

In addition to controllable drivers, LCAT luminaires can also be controlled individually with integral sensors or tied into a Hubbell Control Solutions system.





Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with three distinct SpectraSync™ Color Tuning Technologies.



Dim to Warm

Dim to Warm mimics the familiar warming effect that occurs with traditional incandescent sources as they are dimmed. (Available with 2200K-3000K)

Tunable White

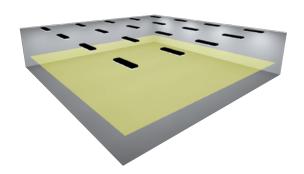
Tunable White offers you the ability to tailor correlated color temperature (CCT) to your personal preference, enhancing task visibility, material and colors and the aesthetics of the space. (Available with 2700K-5000K or 2700K-6500K)

Scheduled White

Scheduled White creates an environment that mimics the rhythm of natural light or follows an alternative user-defined schedule throughout the day, enhancing an occupant's mood and well-being. (Available with 2700K-5000K or 2700K-6500K)

LCAT LED Contemporary Architectural Troffer LCAT LED Contemporary Architectural Troffer

Performance



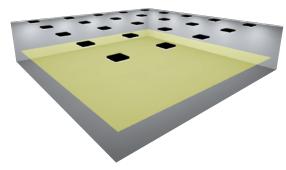
LCAT14 PERFORMANCE

Room Size (L x W)	40' x 40'
Number of Luminaires	20
Workplane, Horizontal	2.5'
Reflectances	80/50/20
Light Loss Factors	1.0/0.90/0.90

 $Image\ rendered\ using\ LitePro\ DLX\ application\ software.$

Mounting Height	OC Spacing	Lumen Package	Fixture Lumens 3500K CCT	Avg fc 2.5'	Max/Min	Avg/Min	Fixture Watts	LPD
	8' x 8'	XW	2375	23 fc	2.0	1.9	19.4	0.24
	9' 8' x 10'	VW	3239	32 fc	2.0	2.7	27.5	0.34
9'		MW	3764	38 fc	2.0	2.7	32.3	0.40
		LW	4506	44 fc	2.0	2.6	36.0	0.45
		ML	4828	47 fc	2.0	2.6	38.3	0.48
14'		HL	5563	46 fc	1.8	2.2	43.9	0.55
25'		VL	6993	40 fc	1.6	2.0	57.5	0.72

Data provided utilizing 80+ CRI and curve lens.



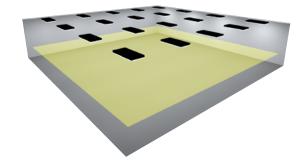
LCAT22 PERFORMANCE

Room Size (L x W)	40' x 40'
Number of Luminaires	25
Workplane, Horizontal	2.5'
Reflectances	80/50/20
Light Loss Factors	1.0/0.90/0.90

Image rendered using LitePro DLX application software.

Mounting Height	OC Spacing	Lumen Package	Fixture Lumens 3500K CCT	Avg fc 2.5'	Max/Min	Avg/Min	Fixture Watts	LPD
8'		VW	1614	20 fc	2.6	2	13.6	0.21
01		MW	2109	25 fc	2.4	1.9	18	0.28
9'	8' x 8'	LW	2768	33 fc	2.4	1.9	22.6	0.35
10'	8 X 8	ML	3418	40 fc	2.4	1.9	28.7	0.45
12'		HL	3705	40 fc	2.2	1.9	31.8	0.5
16'		VL	4396	41 fc	2.2	1.8	38.6	0.6

Data provided utilizing 80+ CRI and curve lens.



LCAT24 PERFORMANCE

Room Size (L x W)	40' x 40'
Number of Luminaires	20
Workplane, Horizontal	2.5'
Reflectances	80/50/20
Light Loss Factors	1.0/0.90/0.90

Image rendered using LitePro DLX application software.

Mounting Height	OC Spacing	Lumen Package	Fixture Lumens 3500K CCT	Avg fc 2.5'	Max/Min	Avg/Min	Fixture Watts	LPD
		XW	2420	23 fc	2.6	2	19.1	0.24
		VW	3216	30 fc	2.6	2	27.6	0.35
9'	01, 401	MW	3462	33 fc	2.6	2	30.2	0.38
		LW	4394	42 fc	2.6	2	36.4	0.46
	8' x 10'	ML	4912	46 fc	2.6	2	38.8	0.49
14'		HL	5604	45 fc	2.1	1.7	44	0.55
20'		VL	7205	47 fc	2.1	1.7	59	0.74
25'		XL	8408	47 fc	2	1.6	73.8	0.92

CORRIDOR PERFORMANCE

Room Size (L x W)	40' x 6'x 9'
Workplane, Horizontal	0' (Floor)
Reflectances	80/50/20
Light Loss Factors	1.0/0.90/0.90

LCAT Size	1x2	2x2	1x4	2x4
Lumen Designation	ML	ML	MW	LW
Nominal Fixture Lumens 3500K CCT	3051	3418	3764	4394
# of Fixtures	5	5	4	4
Avg fc	21 fc	23 fc	22 fc	24 fc
Max/Min	1.9	1.7	1.9	1.8
Avg/Min	1.6	1.6	1.6	1.6
Fixture Watts	28.9	28.4	32.3	36.1
LPD	0.6	0.6	0.54	0.6

Data provided utilizing 80+ CRI and curve lens.

Long Life, Low Maintenance & Reliable

Long Life LEDs – Low Facility Maintenance Over Time

Tested in according with the rigorous standards of IESNA TM-21

- 60,000 hours rated life with 80% lumen maintenance (L80)
- Over 150,000 hours projected life

POWERHUBB

Hubbell Control Solutions' PowerHUBB™ is an enterprise level Power over Ethernet (PoE) lighting and control platform that seamlessly integrates luminaires, sensors, human interfaces and software for a scalable intelligent building control solution. For more information and ordering availability, see LCATPH at www.columbialighting.com.

Snap-Fit Center Lens

LCAT's attractive center lens installs or removes with a simple, secure, snapfit attachment.

Replaceable Components with Below-Ceiling Access

LCAT LED boards and drivers are replaceable and accessible from below the ceiling plane for truly sustainable design.

DLC® Qualified

DLC® (DesignLights Consortium) Qualified, with some Premium Qualified configurations - see www.designlights.org.



Controls Compatible

Optional occupancy and daylight sensors are available for factory installed controls, or pair LCAT with external controls for enhanced energy savings and code compliance.

Warranty

Standard with 5 year warranty.

QR Code Traceability

Each LCAT ships with a QR code affixed to the housing. The QR code contains detailed product information for future traceability.

Hubbell Control Solutions

NX Distributed Intelligence™ supports indoor and outdoor applications, wired, wireless and hybrid networked NX lighting control deployments, and enables emerging applications such as Hubbell Lighting's SpectraSync™ color tuning technology.

Readily Available STOCK QS

LCAT products are available for standard and quick-turn project needs.

- Stocked in popular configurations throughout the continental USA
- Quick-ship configurations available for over 128 combinations of features
- Less common, Made-To-Order configurations ship with responsive lead times for project customization

Simple Fluorescent Replacement



Replace (2) 4' T8 lamps with LCAT LW for

36% energy savings

per fixture.



Replace (3) 4' T8 lamps with LCAT VL for

30% energy savings

per fixture.

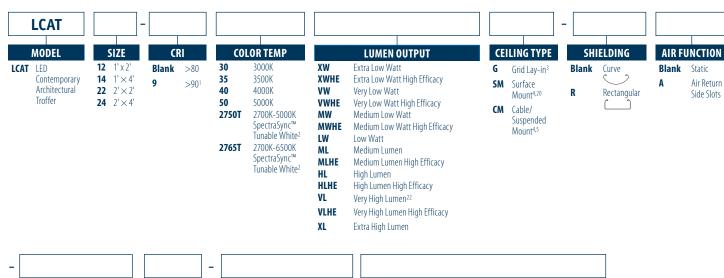


Replace (4) 4' T8 lamps with LCAT XL for

per fixture.



Ordering Information



	DRIVER	V	OLTAGE		OPTIONS		CONTROL OPTIONS
D	Fixed Output ¹⁸ 0-10V Dimming	U	120V- 277V	ELL14	Emergency Battery Pack, 1400 Lumens ^{7,8}	ODPG	ODPG Occupancy and Daylight Sensors w/ Grouping, Philips SNS200 ^{7,10,17}
01	0-10V 1% Dimming	347	347V ¹⁹	DTS	Dimming Bypass Module ^{7,9}	ZRE	ControlScope® compatible 11,17
D D	0-10V Dim-to-Dark ¹⁸ Step Dimming ^{6,7,18} Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology ^{6,7,18} 5-Series EcoSystem LED driver ^{6,7,18}		(C388	3-Wire Flex ²¹	LV	Lutron Vive Attached FCJS POWPAK Fixture Control (RF only) ^{12,13,14,17}
				C488 C588	4-Wire Flex ²¹ 5-Wire Flex ²¹	LVS	Lutron Vive Wireless DFCSJ-OEM-OCC In-Fixture Control with Daylight and Occupancy Sensing 13,15
				GLR	Fast Blow Fuse End of Row (SM and CM only. Provides end wiring access for continuous row mounting.)4	LVR	Lutron Vive Wireless DFCSJ-OEM-RF
Γ5				EOR		NXS NXSW	NX, PIR Occupancy Sensor, Dimming Daylight Harvesting 17,18 NX Wireless, PIR Occupancy Sensor, Dimming Daylight
ALIP	DALI P driver ^{15,16}			INT	Intermediate (SM and CM only. Provides end wiring access for	NXWE	Harvesting ^{17,18,19,20} NX Wireless Enabled ^{17,18,19,20}
					continuous row mounting.)4	NXE	NX Enabled, Dual SmartPorts ^{17,18,19}
				СР	Chicago Plenum	NXES	NX Enabled, PIR Occupancy Sensor, Dimming Daylight Harvesting 17,18,19

ACCESSORIES (ORDER SEPARATELY)

FK12 1' x 2' Single Flange Kit FK14 1' x 4' Flange Kit FK22 $2' \times 2'$ Flange Kit FK24 $2' \times 4'$ Flange Kit CM48Y2SC3F-KIT 48" Cable Mount Kit for 2' wide Cable Mount fixtures, 3-Wire CM48Y1SC3F-KIT 48" Cable Mount Kit for 1' wide Cable Mount fixtures. 3-Wire

- 1. Not available with HE lumen output.
- 2. Available with ED driver and 80 CRI only, N/A with HE, VL (2x2) XL (2x4) lumen outputs.
- 3. For drywall, order G with Flange Kit Accessory
- 4. Not available with Air Return (A) air function.
- 5. Order hanger accessories separately
- 6. Limitations apply based on product size and lumen packages; see individual spec sheets.
- 7. Not available in 347V.
- 8. For compatibility with Dual-Lite LiteGear® inverters, contact Hubbell Lighting Representative.
- 9. For emergency circuit control loads including sensors and wireless systems listed to UL924. Only available with 0-10V drivers
- 10. Only available with 0-10V Dimming (ED) Driver Option.

- 11. Registered trademark of Daintree Networks, used by permission.
- 12. Not available with E, ESD, LUTH or LUT5.
- 13. VIVE is a trademark of Lutron Electronics Co., Inc.
- 14. Installations controlled solely by the Lutron Pico controller require accessing the LV (Lutron FCJS) module for com ssioning after the circuit has been energized.
- 15. LVS and LVR only available with DALIP.
- 16. DALIP only available with LVS and LVR Control Options.

NX In-Fixture Control Options:

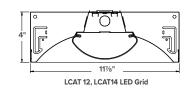
- 17. NX controls can only be used with NX Sensor options.
- 18. NX is available with ED and ED1 drivers only.
- 19. NX combined with Spectrasync is not available in 347V.
- 20. NXSW and NXWE cannot be used with surface mount versions.
- 21. For NX control and Flex Wire together, consult factory.
- 22. NX control function not available with VL lumen output.

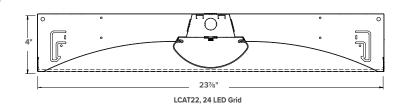
www.columbialighting.com

For questions about configuration options, contact Hubbell Representative. For PowerHUBBTM availability, see LCATPH at www.columbialighting.com.

Cross Sections

Dimensions shown with curve lens option.





www.columbialighting.com LCAT LED Contemporary Architectural Troffer LCAT LED Contemporary Architectural Troffer



ALERA LIGHTING

ARCHITECTURAL AREA LIGHTING

BEACON PRODUCTS

COLUMBIA LIGHTING

COMPASS

DUAL-LITE

HUBBELL CONTROL SOLUTIONS

HUBBELL INDUSTRIAL LIGHTING

HUBBELL OUTDOOR LIGHTING

KIM LIGHTING

KURT VERSEN

LITECONTROL

PRESCOLITE



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