LED Contemporary Architectural Troffers

long life. low maintenance. reliable.

HUBBELL Lighting

Columbia LIGHTING

Replaceable Components with Below-Ceiling Access LCAT LED boards and drivers are replaceable and accessible from below the ceiling plane for truly sustainable design.

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

IN STOCK



2'x2'
LCAT22-35MLG-EDU



2'x4'
LCAT24-35MLG-EDU



Revceive double bonus points when you purchase Hubbell Lighting products the month of March 2016!



LEFFELECTRIC

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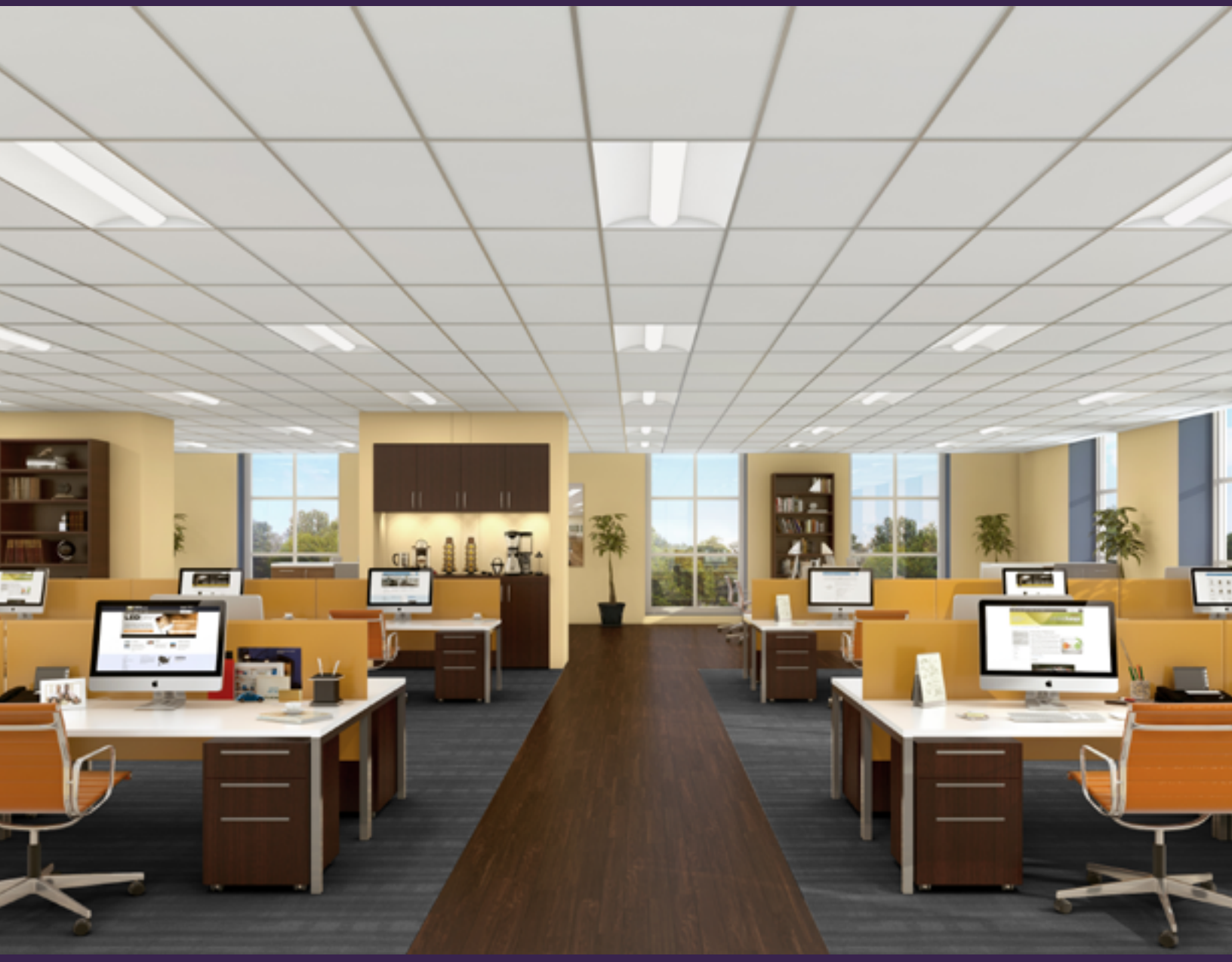
330.379.9800	440.324.5483	440.946.5448	440.572.8188	330.372.3344	216.591.0050	330.799.1366

LCAT
FAMILY



LED CONTEMPORARY ARCHITECTURAL TROFFER

Columbia LIGHTING

LEFFELECTRIC

HUBBELL Lighting

LCAT

LED CONTEMPORARY ARCHITECTURAL TROFFER

LCAT LED Contemporary Architectural Troffer provides both aesthetics and value with an architectural appearance, LED technology, a full family of sizes and a wide range of options.

LENS

High efficiency acrylic center lens features linear prisms for superior performance without LED pixilation.

EASY INSTALLATION

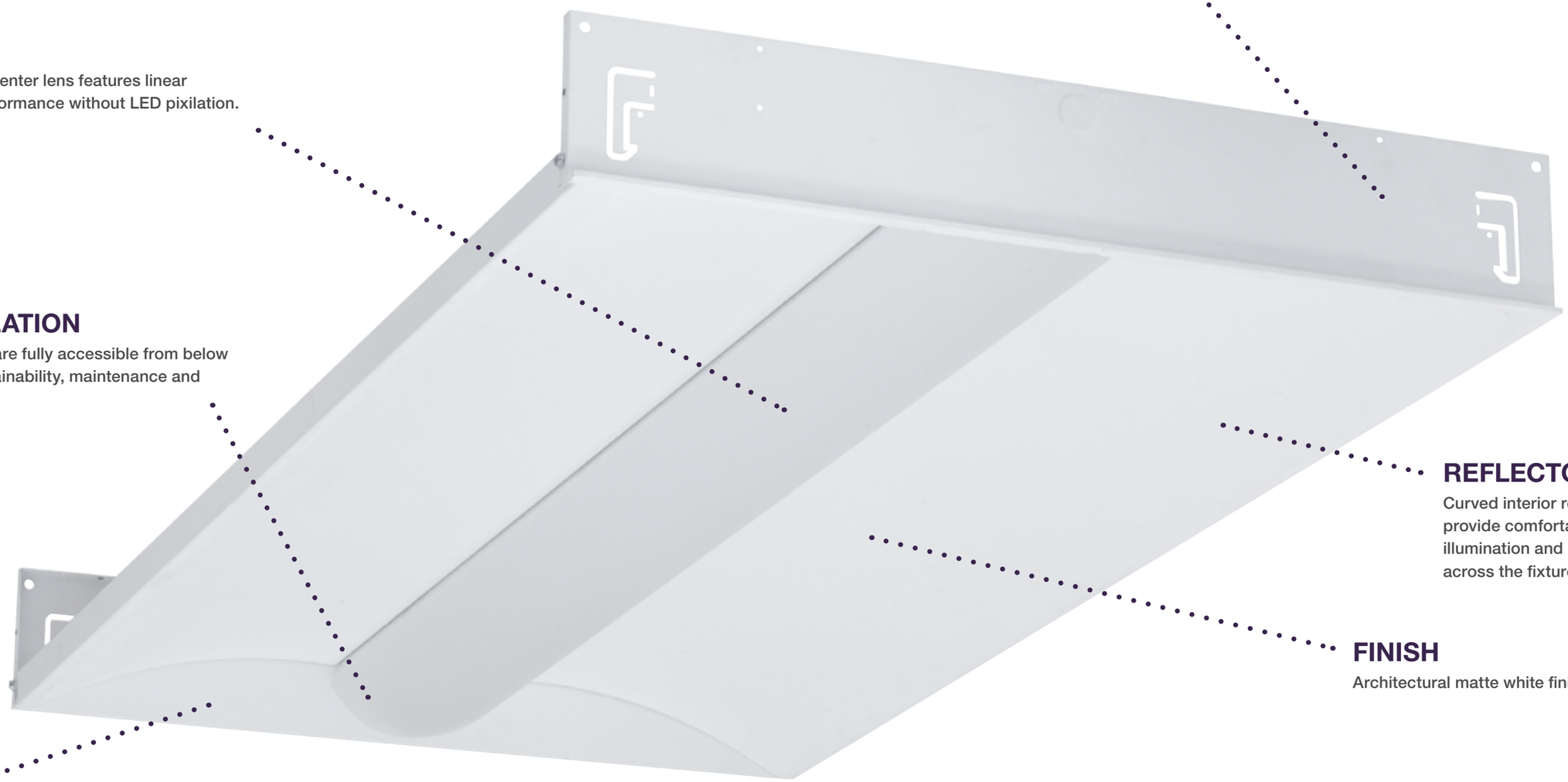
Electrical components are fully accessible from below the ceiling for true sustainability, maintenance and upgrades.

OPTIONS

Wide choice of sizes and lumen packages to maximize design flexibility.

HOUSING

Lightweight housing is cleverly designed for structural integrity and durability.



REFLECTORS

Curved interior reflectors provide comfortable, soft illumination and reduce contrast across the fixture face.

FINISH

Architectural matte white finish standard.

A FULL FAMILY OF ARCHITECTURAL SIZES

DLC qualified; see www.designlights.org

1' x 2'

A small scale, attractive option for corridors, conference rooms, reception desks and architectural insets.

1' x 2' PRODUCT AVAILABILITY

SIZE	LUMEN PACKAGE	NOMINAL LUMENS	WATTS	LUMENS PER WATT
12	VW	1600-1750	16	100-109
	MW	2150-2300	22	100-107
	LW	2650-3050	25	107-123
	ML	3050-3350	29	106-117
	HL	3450-3800	34	102-113



1' x 4'

This sleek shape integrates seamlessly into architectural designs.

1' x 4' PRODUCT AVAILABILITY

SIZE	LUMEN PACKAGE	NOMINAL LUMENS	WATTS	LUMENS PER WATT
14	XW	2600-2800	24	110-119
	VW	3200-3450	30	107-116
	MW	3500-3800	33	107-116
	LW	4000-4350	40	101-109
	ML	4250-4900	40	106-122
	HL	4750-5450	49	98-112
	VL	6250-7200	65	98-112



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

2' x 2'

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

2' x 2' PRODUCT AVAILABILITY

SIZE	LUMEN PACKAGE	NOMINAL LUMENS	WATTS	LUMENS PER WATT
22	VW	1600-1750	16	100-109
	MW	2150-2300	22	100-107
	LW	2650-3050	25	107-123
	ML	3200-3400	30	107-115
	HL	3550-4050	35	100-115
	VL	4000-4600	42	96-110



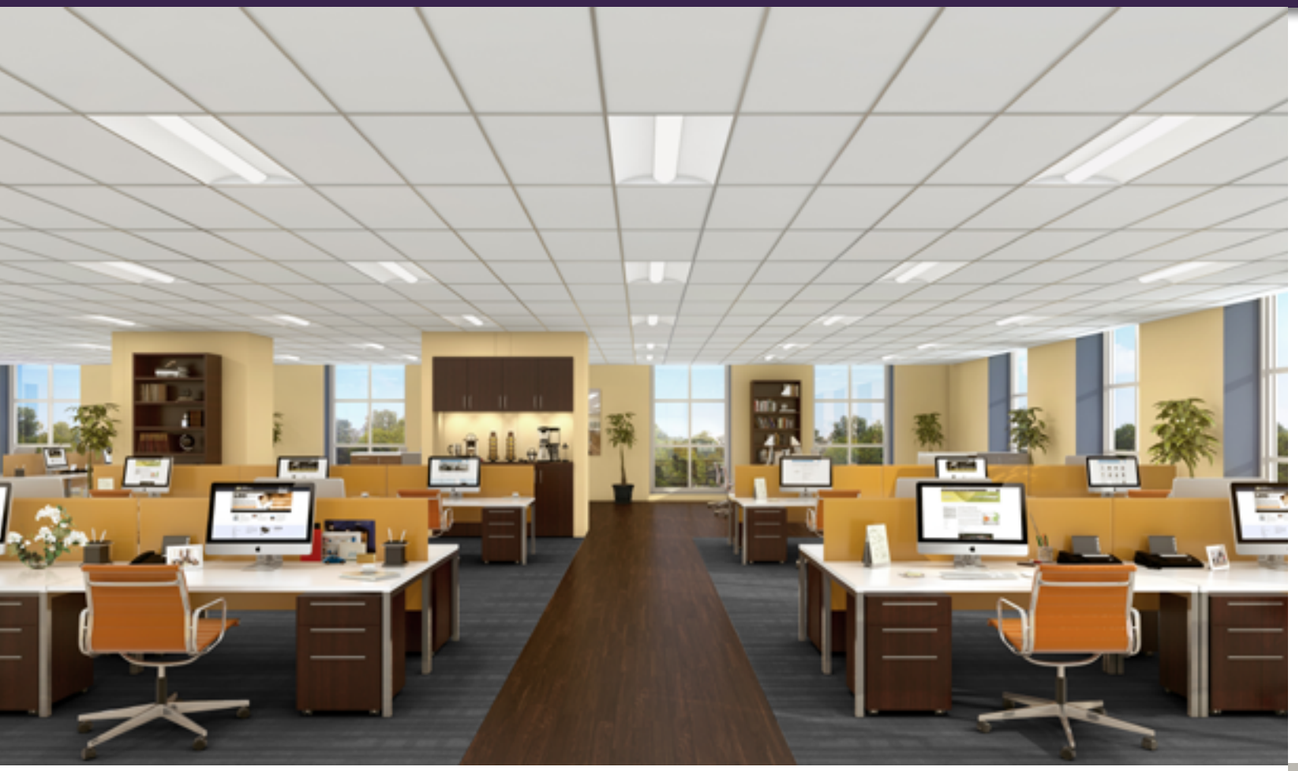
2' x 4'

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

2' x 4' PRODUCT AVAILABILITY

SIZE	LUMEN PACKAGE	NOMINAL LUMENS	WATTS	LUMENS PER WATT
24	XW	2600-2800	24	110-119
	VW	3200-3450	30	107-116
	MW	3500-3800	33	107-116
	LW	4100-4700	40	103-117
	ML	4400-5150	40	110-129
	HL	5350-6200	47	114-132
	VL	6800-7800	65	105-121
	XL	7800-9250	80	92-110





DESIGNED FOR DIVERSITY

Meets a wide range of installation needs while maintaining a consistent luminaire appearance.

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.

SLK Troffer Conversion Kit

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.





PRACTICAL OPTIONS

Practical options for pragmatic illumination.

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.

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.

Egress

Life safety compatibility for security and code compliance:

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





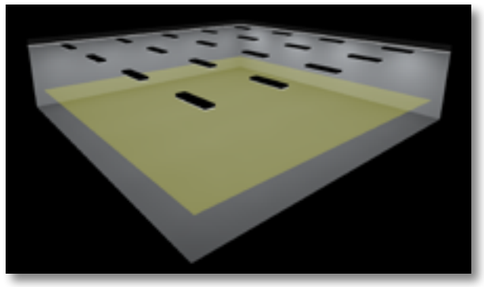


PERFORMANCE

LCAT 1' x 4'

LCAT14 Performance	
Room Size (L x W)	40' x 40'
Number of Luminaires	20
On-Center Spacing	8' x 10'
Workplane, Horizontal	2.5'
Reflectances	80/50/20
Light Loss Factors	1.0/0.90/0.90

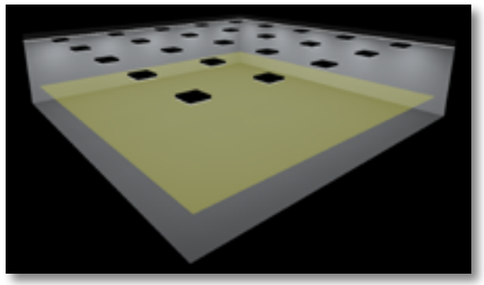
Mounting Height	Lumen Package	Fixture Lumens 3500K CCT	Avg fc 2.5'	Max/Min	Avg/Min	Fixture Watts	LPD
9'	XW	2645	26 fc	2.0	1.7	23.7	0.30
	VW	3259	32 fc	2.1	1.7	29.9	0.37
	MW	3567	33 fc	2.0	1.7	32.9	0.41
	LW	4108	42 fc	2.1	1.7	40.2	0.50
	ML	4426	45 fc	2.1	1.7	40.1	0.50
14'	HL	4945	44 fc	2.1	1.7	48.8	0.61
20'	VL	7064	51 fc	1.9	1.6	64.2	0.80



LCAT 2' x 2'

LCAT24 Performance	
Room Size (L x W)	40' x 40'
Number of Luminaires	25
On-Center Spacing	8' x 8'
Workplane, Horizontal	2.5'
Reflectances	80/50/20
Light Loss Factors	1.0/0.90/0.90

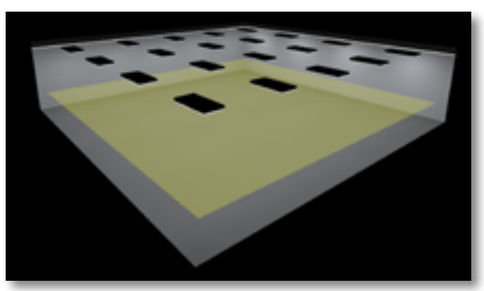
Mounting Height	Lumen Package	Fixture Lumens 3500K CCT	Avg fc 2.5'	Max/Min	Avg/Min	Fixture Watts	LPD
9'	VW	1650	23 fc	2.0	1.7	16.2	0.25
	MW	2160	30 fc	2.0	1.7	21.6	0.34
	LW	2782	39 fc	2.0	1.7	25.0	0.39
	ML	3259	45 fc	2.0	1.7	30.0	0.47
14'	HL	3683	43 fc	1.9	1.6	35.0	0.55
20'	VL	4168	40 fc	1.9	1.6	42.0	0.66



LCAT 2' x 4'

LCAT24 Performance	
Room Size (L x W)	40' x 40'
Number of Luminaires	20
On-Center Spacing	8' x 10'
Workplane, Horizontal	2.5'
Reflectances	80/50/20
Light Loss Factors	1.0/0.90/0.90

Mounting Height	Lumen Package	Fixture Lumens 3500K CCT	Avg fc 2.5'	Max/Min	Avg/Min	Fixture Watts	LPD
9'	XW	2645	27 fc	2.6	2.1	23.7	0.30
	VW	3259	34 fc	2.6	2.1	29.9	0.38
	MW	3507	36 fc	2.6	2.1	32.9	0.41
	LW	4167	43 fc	2.6	2.1	39.7	0.50
	ML	4787	49 fc	2.6	2.1	39.8	0.50
14'	HL	5583	51 fc	2.0	1.7	47.2	0.59
20'	VL	7064	54 fc	2.0	1.6	65.4	0.81
25'	XL	8331	54 fc	1.9	1.5	80.2	1.00

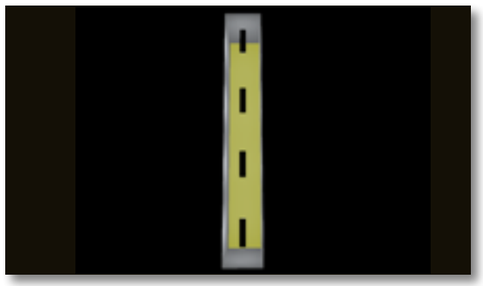


NOTE: Rendered using LitePro DLX application software.

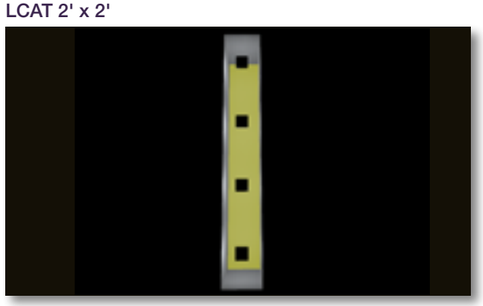
CORRIDOR PERFORMANCE

LCAT Corridor Performance		
Room Size (L x W)	40' x 6'	
Number of Luminaires	4	
On-Center Spacing	10'	
Workplane, Horizontal	0	
Reflectances	80/50/20	
Light Loss Factors	1.0/0.90/0.90	
LCAT Size	12,14	22,24
Nominal Fixture Lumens 3500K CCT	3000	4000
Avg fc	16 fc	24 fc
Max/Min	1.9	1.9
Avg/Min	1.6	1.6
Fixture Watts	25	40
LPD	0.42	0.67

LCAT 1' x 4'



LCAT 2' x 2'



LCAT

LED CONTEMPORARY ARCHITECTURAL TROFFER

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

Replaceable Components with Below-Ceiling Access

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

Snap-Fit Center Lens

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

Air Return Option Available

For applications where HVAC return air is desired through the luminaire.

Trustworthy Provider

With a history dating back to 1888, Hubbell Incorporated has been providing safe, reliable products to the electrical industry for over 100 years.

Warranty

Standard with 5 year warranty.

DLC Qualified

DLC Qualified; see www.designlights.org.

QR Code Traceability

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

Readily Available

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 and options
- Less common, Made-To-Order configurations ship with responsive lead times for project customization

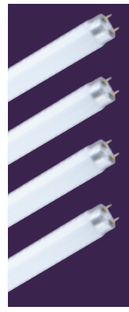
Simple Fluorescent Replacement



Replace (2) 4' T8 lamps with LCAT LW for **33% energy savings** per fixture.



Replace (3) 4' T8 lamps with LCAT VL for **23% energy savings** per fixture.



Replace (4) 4' T8 lamps with LCAT XL for **28% energy savings** per fixture.



Replace 2 U-Bent lamps with LCAT22 HL for **40% energy savings** per fixture.

ORDERING INFORMATION

LCAT [ ] [ ] [ ] [ ] - [ ] - [ ] [ ] - [ ]

MODEL
- **LCAT** LED Contemporary Architectural Troffer

SIZE
- **12** 1' x 2'
- **14** 1' × 4'
- **22** 2' × 2'
- **24** 2' × 4'

COLOR TEMPERATURE
- **30** 3000K
- **35** 3500K
- **40** 4000K
- **50** 5000K

CEILING TYPE
- **G** Grid Lay-in[1]
- **SM** Surface Mount[2]
- **CM** Cable/ Suspended Mount[2,3]

DRIVER
- **E** Fixed Output
- **ESD** Step Dimming[4,7]
- **ED** 0-10V Dimming
- **ED1** 0-10V 1% Dimming
- **LUTH** Lutron H Series[5,7]
- **LUT5** Lutron 5 Series[5,7]

OPTIONS
- **ELL14** Emergency Battery Pack, 1400 Lumens[6]
- **C388** 3-Wire Flex
- **C488** 4-Wire Flex
- **C588** 5-Wire Flex
- **GLR** Fast Blow Fuse
- **NYC** NYC Compliant
- **EOR** End of Row (SM and CM only. Provides end wiring access for continuous row mounting.)
- **INT** Intermediate (SM and CM only. Provides end wiring access for continuous row mounting.)

LUMEN OUTPUT
- **XW** Extra Low Watt
- **VW** Very Low Watt
- **MW** Medium Low Watt
- **LW** Low Watt
- **ML** Medium Lumen
- **HL** High Lumen
- **VL** Very High Lumen
- **XL** Extra High Lumen

See Product Availability Table below.

AIR FUNCTION
- **Blank** Static
- **A** Air Return Side Slots

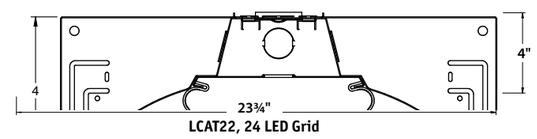
VOLTAGE
- **U** 120V-277V
- **347** 347V

ACCESSORIES (ORDER SEPARATELY)

FK14	1' x 4' Flange Kit
FK22	2' × 2' Flange Kit
FK24	2' × 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] For drywall, order G with Flange Kit Accessory.
[2] Not available with Air Return (A) air function
[3] Order hanger accessories separately
[4] Not available with XW, VW or MW lumen packages
[5] Limitations apply based on product size and lumen packages; see individual spec sheets
[6] For compatibility with Dual-Lite LiteGear(R) inverters, contact Hubbell Lighting Representative
[7] Not available in 347V
For questions about configuration options, contact Hubbell Representative.

Cross Sections



PRODUCT AVAILABILITY

SIZE	LUMEN PACKAGE	NOMINAL LUMENS	NOMINAL WATTS	LUMENS PER WATT
12	VW	1600-1750	16	100-109
	MW	2150-2300	22	100-107
	LW	2650-3050	25	107-123
	ML	3050-3350	29	106-117
	HL	3450-3800	34	102-113
14	XW	2600-2800	24	110-119
	VW	3200-3450	30	107-116
	MW	3500-3800	33	107-116
	LW	4000-4350	40	101-109
	ML	4250-4900	40	106-122
	HL	4750-5450	49	98-112
	VL	6250-7200	65	98-112
22	VW	1600-1750	16	100-109
	MW	2150-2300	22	100-107
	LW	2650-3050	25	107-123
	ML	3200-3400	30	107-115
	HL	3550-4050	35	100-115
	VL	4000-4600	42	96-110
24	XW	2600-2800	24	110-119
	VW	3200-3450	30	107-116
	MW	3500-3800	33	107-116
	LW	4100-4700	40	103-117
	ML	4400-5150	40	110-129
	HL	5350-6200	47	114-132
	VL	6800-7800	65	105-121
	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).

HUBBELL Lighting

ALERA LIGHTING

ARCHITECTURAL AREA LIGHTING

BEACON PRODUCTS

COLUMBIA LIGHTING

COMPASS

DEVINE LIGHTING

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HUBBELL INDUSTRIAL LIGHTING

HUBBELL OUTDOOR LIGHTING

KIM LIGHTING

KURT VERSEN

LITECONTROL

PRECISION-PARAGON [P2]

PRESCOLITE

PROGRESS LIGHTING

SPAULDING LIGHTING

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STERNER

WHITEWAY

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