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.

Contents

4 Visual Details
5 Sizes and Availability
6 Features and Options
7 SpectraSync™ Compatible
8 Performance
10 Why Choose LCAT?
11 Ordering Information
A Wide Choice of Sizes, Lumen Packages, & Options

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

Housing
Lightweight housing is cleverly designed for structural integrity and durability.

Finish
Architectural matte white finish standard.

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

CRI
83 CRI standard and optional 90 CRI for color sensitive applications.

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

Multiple Shielding Options
Two attractive lens options to enhance any installation type.

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

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
--- | --- | --- | --- | ---
12 | VW | 154-1730 | 13 | 114-143|
| MW | 154-1730 | 18 | 123-155|
| LW | 257-3047 | 23 | 166-195|
| ML | 333-3794 | 29 | 188-213|
| HL | 3584-4082 | 32 | 193-223|

Product Availability 80 CRI

Size | Lumen Package | Nominal Lumens | Watts | LPW
--- | --- | --- | --- | ---
14 | VW | 2239-2476 | 19 | 153-182|
| MW | 2457-2846 | 19 | 162-196|
| LW | 3474-3546 | 28 | 144-176|
| ML | 3052-3575 | 24 | 126-161|
| HL | 3052-3575 | 32 | 153-198|

Product Availability 80 CRI

Size | Lumen Package | Nominal Lumens | Watts | LPW
--- | --- | --- | --- | ---
16 | VW | 2585-2836 | 19 | 154-186|
| MW | 2585-2836 | 24 | 131-167|
| LW | 3973-4285 | 36 | 123-162|
| ML | 4680-5340 | 38 | 126-160|
| HL | 5460-6150 | 44 | 132-166|

Product Availability 80 CRI

Size | Lumen Package | Nominal Lumens | Watts | LPW
--- | --- | --- | --- | ---
14 | VW | 3567-3964 | 19 | 156-193|
| MW | 3567-3964 | 24 | 133-171|
| LW | 5575-6180 | 36 | 128-174|
| ML | 4680-5340 | 38 | 129-171|
| HL | 5460-6150 | 44 | 135-176|

Product Availability 80 CRI

Size | Lumen Package | Nominal Lumens | Watts | LPW
--- | --- | --- | --- | ---
12 | VW | 2458-2650 | 19 | 129-159|
| MW | 2458-2650 | 24 | 131-167|
| LW | 3563-3831 | 30 | 151-187|
| ML | 3052-3575 | 24 | 123-161|
| HL | 3052-3575 | 32 | 153-198|
| VL | 4270-4863 | 39 | 191-226|
| VL,HE | 4270-4863 | 35 | 125-154|

Product Availability 80 CRI

Size | Lumen Package | Nominal Lumens | Watts | LPW
--- | --- | --- | --- | ---
14 | VW | 3052-3575 | 18 | 164-203|
| MW | 3052-3575 | 23 | 156-198|
| LW | 5323-5910 | 36 | 125-169|
| ML | 4680-5340 | 38 | 128-171|
| HL | 5460-6150 | 44 | 132-166|

Product Availability 80 CRI

Size | Lumen Package | Nominal Lumens | Watts | LPW
--- | --- | --- | --- | ---
12 | VW | 3052-3575 | 18 | 164-203|
| MW | 3052-3575 | 23 | 156-198|
| LW | 5323-5910 | 36 | 125-169|
| ML | 4680-5340 | 38 | 128-171|
| HL | 5460-6150 | 44 | 132-166|
| VL | 6933-7758 | 56 | 178-216|

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

www.columbialighting.com
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)

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

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)

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.

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.

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.

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 S, 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.

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)

www.columbialighting.com
### LCAT14 PERFORMANCE

<table>
<thead>
<tr>
<th>Mounting Height</th>
<th>OC Spacing</th>
<th>Lumen Package</th>
<th>Fixture Lumens 3500K CCT</th>
<th>Avg fc 2.5'</th>
<th>Max/Min</th>
<th>Avg/Min</th>
<th>Fixture Watts</th>
<th>LPD</th>
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<tr>
<td>5'</td>
<td>8' x 8'</td>
<td>VW</td>
<td>2375</td>
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<td>3239</td>
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<td>14'</td>
<td></td>
<td>MW</td>
<td>3764</td>
<td>2.0</td>
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<td>32.3</td>
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<th>Fixture Lumens 3500K CCT</th>
<th>Avg fc 2.5'</th>
<th>Max/Min</th>
<th>Avg/Min</th>
<th>Fixture Watts</th>
<th>LPD</th>
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<td>14'</td>
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<td>MW</td>
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<th>Fixture Lumens 3500K CCT</th>
<th>Avg fc 2.5'</th>
<th>Max/Min</th>
<th>Avg/Min</th>
<th>Fixture Watts</th>
<th>LPD</th>
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### CORRIDOR PERFORMANCE

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<td>ML</td>
<td>MW</td>
<td>LW</td>
</tr>
<tr>
<td>Nominal Fixture Lumens 3500K CCT</td>
<td>3051</td>
<td>3418</td>
<td>3764</td>
<td>4394</td>
</tr>
<tr>
<td># of Fixtures</td>
<td>5</td>
<td>5</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Avg fc</td>
<td>21 fc</td>
<td>23 fc</td>
<td>22 fc</td>
<td>24 fc</td>
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<td>Max/Min</td>
<td>19</td>
<td>17</td>
<td>19</td>
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<tr>
<td>Avg/Min</td>
<td>16</td>
<td>16</td>
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<td>16</td>
</tr>
<tr>
<td>Fixture Watts</td>
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<td>LPD</td>
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<td>0.54</td>
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</table>

Note: Data provided utilizing 80+ CRI and curve lens.
Long Life, Low Maintenance & Reliable

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 33% energy savings per fixture.

Replace 2 U-Bent lamps with LCAT22 HL for 45% energy savings per fixture.

Long Life LEDs – Low Facility Maintenance Over Time

Tested in accordance with the rigorous standards of IESNA TM-21
- 60,000 hours rated life with 80% lumen maintenance (L80)
- Over 150,000 hours projected life

DLC® Qualified

DLC® (DesignLights Consortium) Qualified, with DLC® Qualified Controls Compatible

Warranty QR Code Traceability

Warranty and traceability – includes an optional warranty QR code. For more information and ordering availability, see LCAT® at www.columbialighting.com

PowerHUB® Intelligent Power over Ethernet

Hubbell Control Solutions’ PowerHUB® 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 LCAT® at www.columbialighting.com

Snap-Fit Center Lens

LCAT’s attractive center lens installs or removes with a simple, secure, snap-fit 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 Controls

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

Controls Compatible

Controls Compatible

Warranty

Standard with 5 year warranty.

Hubbell Control Solutions

Hubbell’s 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 Spectralsync™ color-tuning technology.

Readyly 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, Mode-To-Order configurations ship with responsive lead times for project customization.

ORDER

VOLTAGE

OPTIONS

ACCESSORIES (ORDER SEPARATELY)

FR32
2 x Globe Type Kit

FR46
1 x Flange Kit

FR24
2 x 2 Flange Kit

FR24
2 x Flange Kit

CHAR2325-MCR
48” Cable Mount Kit B-2” Wide Cable Mount Flanges, 3-W (per fixture)

CHAR2325-MCR
48” Cable Mount Kit B-2” Wide Cable Mount Flanges, 3-W (per fixture)

NOTE:
- Not available with IES output.
- Available with ED driver and 0-10V control, RJ45 with LUT, VL, 2x4 in, 2x4 in output.
- Available with Air Return (A) air function.
- Option for dedicated row control.
- Limitations apply based on product size and lumens packages; see individual spec sheets.
- For compatibility with Dual-light SiteGo2 inventories, contact Hubbell Lighting Representative.
- Not available in 347V.
- For emergency circuit control loads including sensors and wireless systems listed in UL1244.
- Only available with 0-10V drivers.

Cross Sections

Dimensions shown with curve lens option.

ORDER INFORMATION

LCAT LED Contemporary Architectural Troffer

www.columbialighting.com

ORDER INFORMATION

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