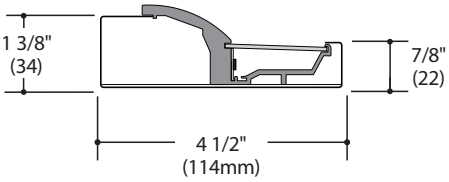
LITECONTROL

Fixture Type:
Project Name:



Cove-15

CC-AI-L15

LED Concealed Cove
Asymmetric Indirect

Product Description

Small-scale LED concealed cove luminaire using Cree MX-6 LED packages. Available in three output levels and four color temperatures, with an optional high performance specular reflector. Extruded aluminum LED module snaps into steel housing for in-field replacement. CSA and/or UL Listed.

Ordering Guide

Product, Lamping, & Length										Options	
CC -	**AI -**	**L15**				**CWM -**		**1CWQ -**			
Mounting	Distribution	Series	Length in feet (mm)	Output	Color Temperature	Finish	Dimming	Circuiting	Voltage	Optics	Other Options
CC Concealed Cove	**AI** Asymmetric Indirect	**L15**	**02** (610) **03** (914) **04** (1219) **06** (1829) **08** (2438) see **Note**	**LO** **MO** **HO**	**35K** is standard **27K, 30K, 40K** also available see **Color Temperature**	**CWM** (matte white) is standard	**D10** **LEC** **LHI** **LTW** **NDM** see **Dimming**	**1CWQ**	**120** **277**	**--** **HPR**	**WKC/WP** **AMA5** **AMA10**

Note
L15 three foot (03) is not available in low output (L0).

CC-AI-L1504-MO-30K-CWM-LHI-120-HPR-WKC/WP is a typical catalog number for a 4-foot long LED concealed cove fixture, medium output, 3000K correlated color temperature, matte white finish, with a Lutron Hi-Lume dimming power supply, pre-wired with single-circuit branch wiring, 120 volts, with optional high performance reflector and pre-wired corner wiring kit.

Output

LO Low Output - output from LED boards approximately 250 lumens/foot out of the fixture at an input power of approximately 4 Watts/foot. These values may vary based on CCT. Consult test reports for details.

MO Medium Output - output from LED boards approximately 500 lumens/foot out of the fixture at an input power of approximately 8 Watts/foot. These values may vary based on CCT. Consult test reports for details.

HO High Output - output from LED boards approximately 775 lumens/foot out of the fixture at an input power of approximately 16 Watts/foot. These values may vary based on CCT. Consult test reports for details.

Color Temperature

3500K is standard and available with normal lead times. Other CCTs may require longer lead times; please contact factory for details. Within an individual fixture of 3500K LEDs, color tolerance is limited to ±64K (compared to ANSI allowance of ±245K) and to ±0.0015 Duv (compared to ANSI ±0.006). Color variation over life is expected to be <0.001 (Δu'v'), compared to Energy Star specification of 0.007. See color statement at litecontrol.com for details and for other CCT tolerances. Minimum CRI 80.

Dimming

D10 Low-voltage dimming; fixture will be wired for 0-10V dimming. D10 dimming expected availability in Q3 2012.

LEC Lutron Ecosystem dimming; fixture will be wired with a Lutron A-series driver for compatibility with Ecosystem controls. Driver provides constant current output and uses constant current reduction dimming. See lutron.com for a list of compatible dimming devices.

LHI Lutron Hi-Lume 3-wire dimming; fixture will be wired with a Lutron A-series driver for compatibility with Hi-Lume controls. Driver provides constant current output and uses constant current reduction dimming. See lutron.com for a list of compatible dimming devices.

LTW Lutron 2-wire forward phase dimming; fixture will be wired with a Lutron A-series driver for compatibility with 2-wire forward phase controls. Driver provides constant current output and uses constant current reduction dimming. See lutron.com for a list of compatible dimming devices.

NDM Non-dimming; fixture will be wired for fixed light output.

See list of qualified dimmers on page 4 and contact Litecontrol for additional photometric and control information.

Questions to Ask

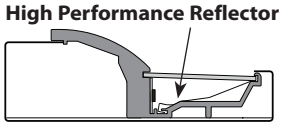
1. Row information, including desired fixture lengths? **2.** Output? **3.** Color Temperature? **4.** Dimming? **5.** 120 or 277 volt? **6.** Optics? **7.** Other options?

Optics

Leave blank for standard optical package, comprised of a high reflectance white painted reflector and a high-efficiency diffuse lens. See photometric reports for details.

HPR High Performance Reflector; fixture will be assembled with a high reflectance specular reflector and clear lens, to provide greater peak intensity at a lower angle. See photometric reports for details.

High Performance Reflector



Other Options

WKC/WP Wiring Kit for Corners, with pre-wired quick-connects.

AMA5 Adjustable Mounting Angle, 5˚: fixture is provided with a component that tilts the back of the fixture up by 5˚.

AMA10 Adjustable Mounting Angle, 10˚: fixture is provided with a component that tilts the back of the fixture up by 10˚.

Lumen Maintenance

Lumen maintenance based on LM-80 data and in-situ temperature measurement: L90 calculated at >50,00 hours; L70 calculated at >160,000 hours for Medium Output. Since LM-80 testing ended at 6048 hours, the TM-21 reported L90 and L70 values are ≥ 36,288 hours. See litecontrol.com for detailed lumen maintenance statement. These fixtures have a five-year warranty, with a detailed warranty statement available at litecontrol.com.

revised 07/31/2012

Quick Find L15
litecontrol.com

Specifications

HOUSING. Steel housing, finished white. Ends provided with 7/8" diameter hole to accommodate wiring.
LED MODULE. Extruded aluminum, finished matte white for high reflectance, snaps into housing for field replacement. Module has 12 Cree LEDs per foot.
STANDARD OPTICS. The standard optic includes a high-reflectance white painted reflector combined with a lens comprised of highly efficient diffusion film optically bonded to pure acrylic sheet.
HPR OPTICS. The optional High Performance Reflector (HPR) optic includes a die-formed specular aluminum reflector and a strip of high reflectance white film with a clear acrylic lens.
WIRING. Fixtures are supplied with #12 AWG type THHN wire for branch circuits. One end will have factory-installed push-in quick-connects. The other end will be stripped back 1/2" for quick connection in field. For fixtures to accommodate special circuits such as night light and emergency, etc., in-field wiring will be required. See Pre-wiring Information for details. Fixture is intended to be wired with 3/8" flexible whip along with flexible push-in connector supplied by contractor.
MOUNTING. Fixtures are installed in cove provided by others. See Planning for installation for detailed information.
CERTIFICATION. Fixture and electrical components shall be CSA, UL and/or CUL Listed.
WARRANTY. Five-year product warranty. See litecontrol.com for full warranty details.
Note: Litecontrol reserves the right to change specifications without notice for product development and improvement.

Planning for installation

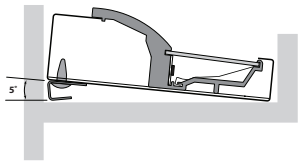
Fixture Lengths
24-1/16" (610 mm), 36-1/32" (914), 48" (1219), 72"(1829), 96"(2438)

Cove provided by others. Interior cove dimensions should allow for 4 1/2" x 1 1/2" fixture cross-section to fit within cove, taking into consideration as-built tolerances. For maximum efficiency, wall and ceiling above cove should have matte surfaces with high reflectances. See design guidelines below. Maximum fixture weight per foot is 2 1/2 pounds per foot.

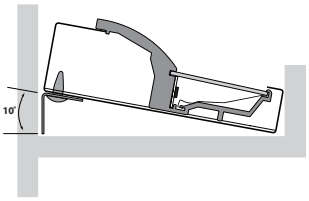
Corner Wiring Kit
Provides the advantages of pre-wiring around corners. Make connections at each end of the flexible whip, push wires into fixtures, then snap onto headers. Specify **WKC/WP** (with push-in quick-connects).

Adjustable Mounting Angle (AMA) Option
With this option, you can get an even lower beam throw, projecting light at lower angles resulting in a greater amount of light directed into the space. A simple, snap-on accessory is used to tilt the fixture an additional 5° or 10° above horizontal. Room geometry and cove location are considerations when using this option. A simple cross-section sketch of the space, drawn to scale, will determine the appropriate angle of tilt needed. Use of this option increases the possibility of a direct view of the bright lens and LEDs, so viewing angles within the application should be carefully evaluated.

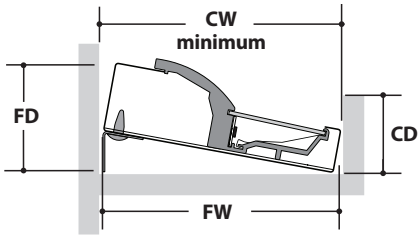
Adjustable Mounting Angle (AMA5)



Adjustable Mounting Angle (AMA10)

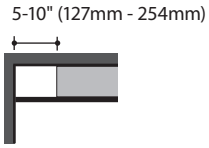


Angle of Tilt	Ordering Option	Fixture Depth (FD)	Fixture Width (FW)	Cove Depth (CD) to Completely Conceal Fixture at 0˚ Tilt*	Recommended Cove Width (CW)
0˚	standard	1-1/2" (38 mm)	4-1/2" (114)	1-3/4" (44)	4-3/4" (121)
5˚	AMA5	1-7/8" (48)			
10˚	AMA10	2-1/4" (57)			

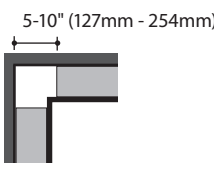


*Note: When using the AMA option, refer to photometric data to ensure that cove height does not interfere with peak output.

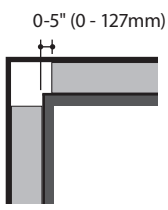
Single row end clearance



Inside corner positioning



Outside corner positioning



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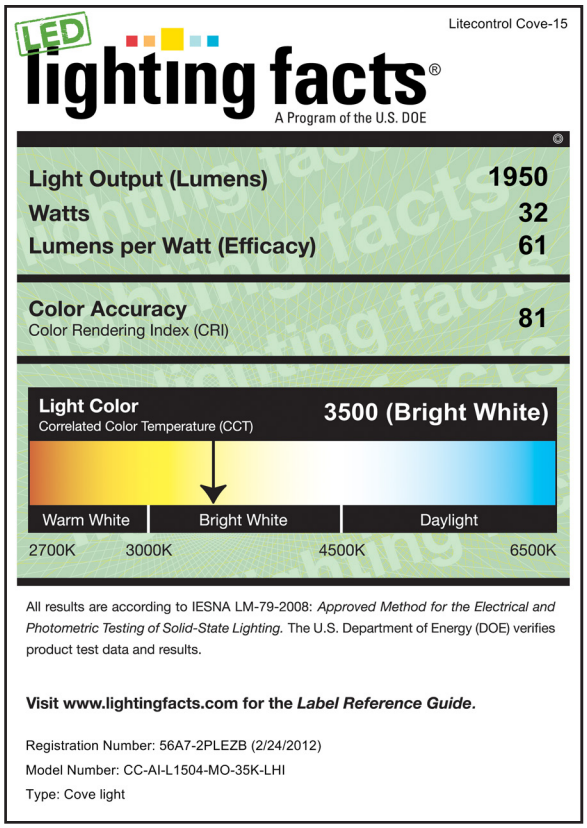
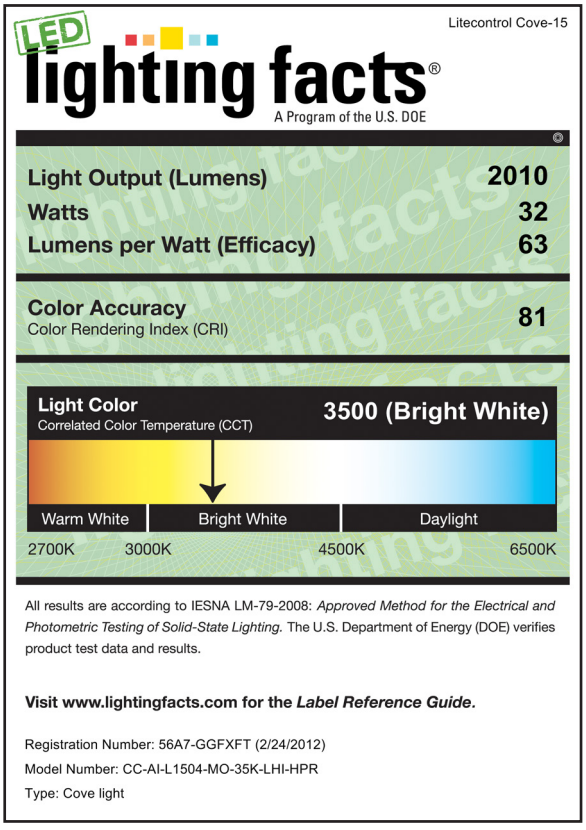
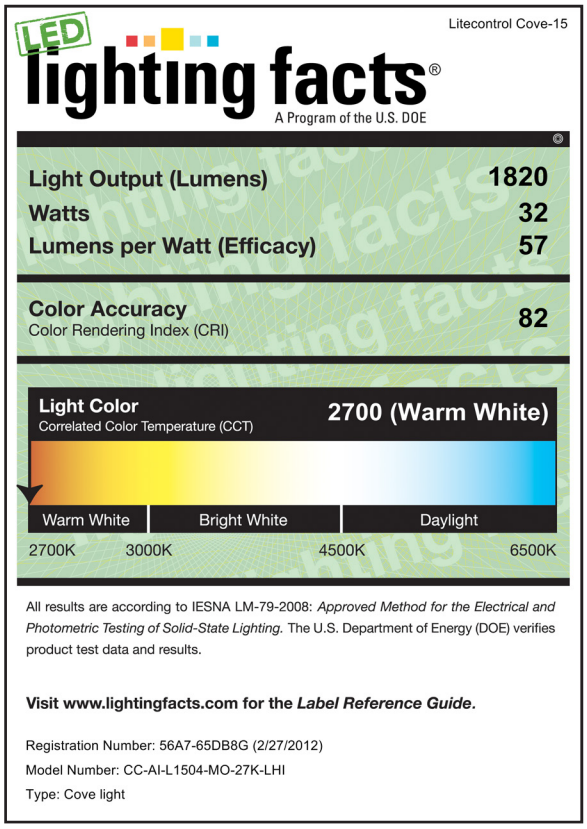
3500K, Medium Output, Standard Optics



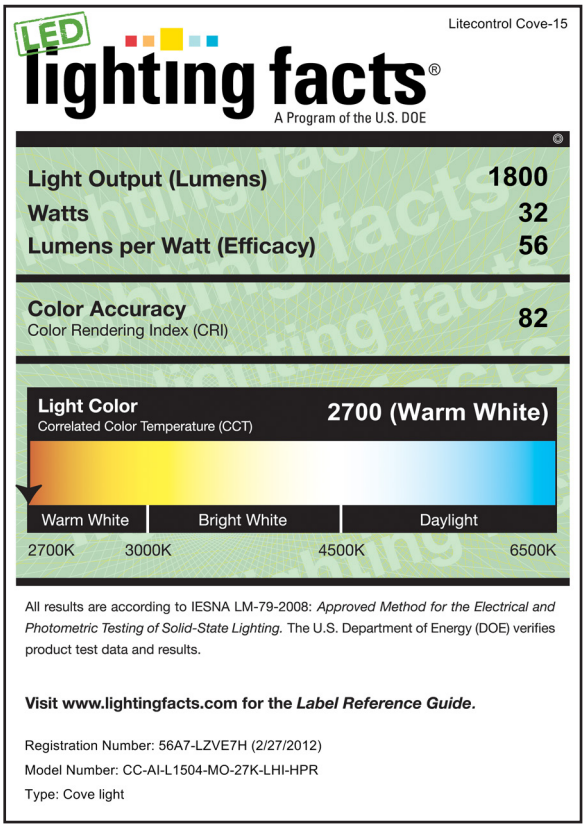
3500K, Medium Output, High Performance Reflector



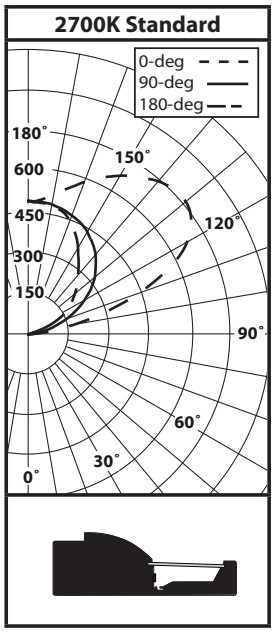
2700K, Medium Output, Standard Optics



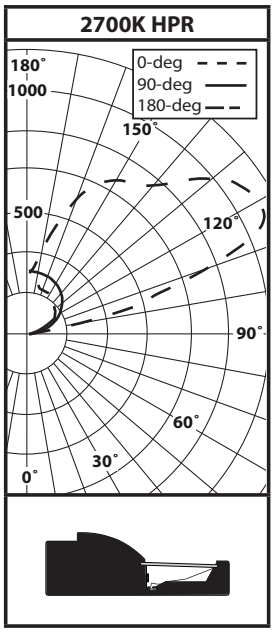
2700K, Medium Output, High Performance Reflector



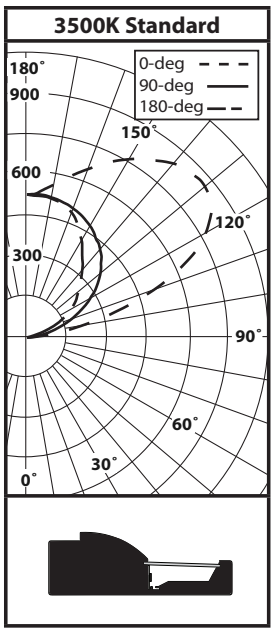
Photometric Data (medium output)



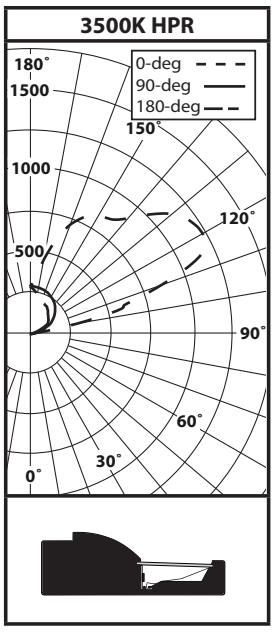
CC-AI-L1504-MO-27K
Peak Candelas 747
Peak Angle 130˚



CC-AI-L1504-MO-27K-HPR
Peak Candelas 1120
Peak Angle 120˚



CC-AI-L1504-MO-35K
Peak Candelas 822
Peak Angle 130˚



CC-AI-L1504-MO-35K-HPR
Peak Candelas 1230
Peak Angle 120˚

Complete LM-79 test reports and IES photometric files are available at litecontrol.com. Lighting Facts Labels are provided on page 3.

Dimming Compatibility

D10 0-10V analog dimming control. Product includes an internal power supply and a driver with 0-10V dimming interface.

The D10 option has been tested for use with the following devices:

Leviton	Illuma Tech IP710-DL(120/277 Volt AC 60Hz)
Watt Stopper	ADF-120277 (120/277 Volt AC 60Hz)
Lutron	DVF-103P
Lutron	DVTV-WH
Lutron	GRX-TVI Interface
Leviton	Power Extender PE300-D0W