

LIGHTCOVES

LCKD SERIES

INDIRECT COVE SYSTEM DIRECT DOWNLIGHT COMPONENT KNIFE EDGE PRECISION

Architectural Linear LED Illuminating Cove System

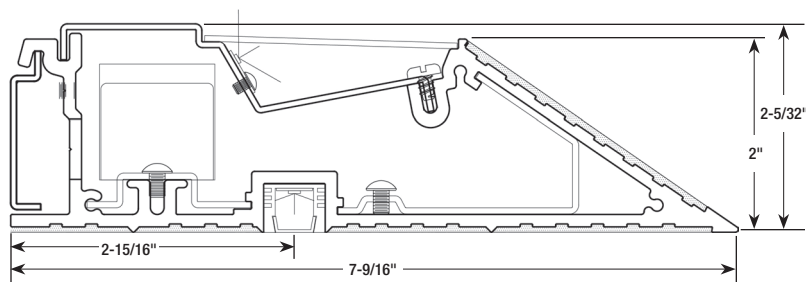


Features

- Extruded aluminum housings create perfect custom coves of indirect light.
- Unique direct downlight component.
- Lengths and angles all pre-engineered before shipping for exact fits.
- Inside and outside corners are available.
- Easy-mount wall mounting bracket system.
- Clear dust guard covers LED gear tray.
- Nominal 7.5" depth to wall creates an architecturally pleasing cove.
- Extrusion bottom and front facia ribbed for easy on-site plastering-in.
- Field paintable for color matching of walls.
- Cataloged standard or custom set lumens-per-foot performances.
- 80 CRI standard. 90 CRI available.
- Dimming down to 1% on 0-10V controls. Standard for indirect component, optional for direct component.
- Fixture lumens per watt ratios up to 143.
- American Made.



Cross Section (50% scale)



Performance

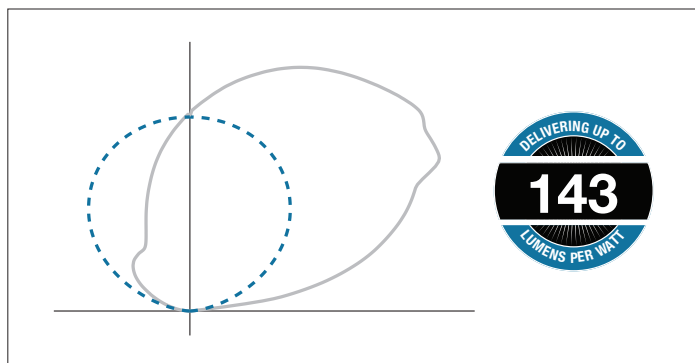
Based on 4Ft. Module, 3500K, 80 CRI

Lumens per Foot (LF)	Delivered Lumens (L)	System Watts (W)	Lumens per Watt (LPW)
500	2000	14.2	141
625	2500	17.5	143
800	3200	22.9	140
1100	4400	33.2	133
1400	5600	43.4	129

Multiplier for other Color Temp (K)

3000K	98%
3500K	100%
4000K	104%
5000K	106%

Actual performance may differ by +/- 5% when operating between 120V-277V +/- 10%. Consult Factory for 90 CRI performances.



fixture type:

job information:

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Ex: LCKD-192-800-275-35K-1%-DDM-U

LCKD		275					
Series	Module or Row Length	Lumens/Ft INDIRECT	Lumens/Ft DIRECT	Color Temp	Driver/ INDIRECT	Driver/ DIRECT	Voltage
LCKD LightCove Knife Edge Direct Component	48 48" Length	500	275	30K	1% 0-10V 1% Dimming	Non-Dimming Driver (Default)	U Uni 120V-277V
	96 96" Length	625		35K	SR Sensor Ready (Required for Certain Controls, Contact Factory)	DDM Downlight Dimming Module (Optional)	1 120V
	Custom or Row Length. 24" and above in 1" Increments. Ex. in inches: 82, 384, etc.	800 1100 1400		40K			7 277V
		Custom Lumen Package. Contact Factory		50K Upon Request	LDE1 Lutron Hi-Lume	As Specified	X As Specified
				927K 930K 935K 940K	LDE5 Lutron 5-Series		
					As Specified		

Housings

Extruded aluminum profile in a 0.125-inch wall thickness.

Maximum length of each linear component is 8-ft.

16GA steel ends are provided where needed at row termini.

Inside and outside corners are available.

A one-piece 16GA galvanized steel joiner/aligner bracket is provided for each joint between housings.

Internal cold-rolled steel LED gear tray.

Integral wall mounting bracket.

Field paintable housing after on-sight plastering-in.

Diffusers

Clear dust guard covers upper LED gear tray.

LED Modules Indirect:

High performance linear configured LED module boards.

Each board consists of multiple mid-power, high efficacy LEDs in a precise layout eliminating the need for supplemental heat sinking.

The boards produce an even and diffuse light which maximizes optical efficiency.

Compatible with the dimming performance of the LED driver.

Color temperatures available 80 CRI: 3000K, 3500K and 4000K. Upon request: 5000K.

Color temperatures available 90 CRI: 2700K, 3000K, 3500K and 4000K.

LED Drivers Indirect:

Factory programmable constant current LED power supply.

Multiple standard drive current outputs (factory set by Mercury) are cataloged with their corresponding lumens-per-foot offering. Upon request, custom drive current outputs and lumens-per-foot options are available.

Note: Certain cataloged lumens-per-foot offerings may be provided with a non-programmable constant current LED power supply at Mercury's discretion. Contact factory if critical.

Universal voltage input, 120V-277V, 50HZ-60HZ.

Specification grade dimming down to 1% on 0-10V dimming controls.

Sensor ready (SR) drivers compatible with most lighting controls are optional. Consult factory.

Lutron drivers available: LDE1 and LDE5 series.

LED Modules Direct:

Constant voltage LED tape strip.

24-Volt operation, 3-Watts per foot.

0-10V dimmable.

Color temperatures available 90 CRI: 2700K, 3000K, 3500K and 4000K.

LED Drivers Direct:

Universal voltage input, 120V-277V, 50HZ-60HZ.

24-VDC output.

Non-programable, no dimming function.

Optional; dimming down to 1% on 0-10V controls with added dimming module.

Standby Lighting Options

Contact Factory.

Installations

All cove dimensions provided will be pre-engineered to deliver the proper housing lengths and angles for custom fits.

Quick connect plug-thru wiring harnesses provided where needed.

Designed to be wall mounted with unique mounting system.

Certificate of Safety Compliance and Listings

Luminaire: UL and CUL listed 1598 and bears their label. Suitable for damp locations.

Warranty

5-year limited warranty is standard. Special 10-year warranty available on a job-to-job basis. Complete LED warranty terms available at www.mercltg.com.

Actual performance may differ as a result of end-user environment and application.

Most LED luminaires are suitable to operate in ambient temperatures from -20C (-4F) to 25C (77F).

The following exclusions apply: Luminaires with optional standby lighting option, integral lighting controls options, or wireless control options. Consult factory.

LM-79 testing was measured under a controlled 25C (77F) ambient operating temperature.



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Dimensional Data

