Project	Catalog #	Туре	
Prepared by	Notes	Date	



# **HALO**

# LCR2

2-Inch Round All-Purpose LED Retrofit Module

### **Typical Applications**

Residential · Multi-family · Mixed-Use

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### **Product Certification**











Refer to ENERGY STAR® Certified Products List.
Can be used to comply with California Title 24 High Efficacy requirements.
Certified to California Appliance Efficiency Database under JA8.

### **Product Features**



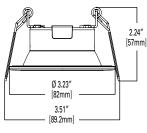




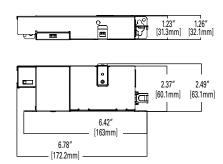
## **Top Product Features**

- Select from 5 CCTs via switch; 2700K, 3000K, 3500K, 4000K, 5000K CCT; 90 CRI
- Up to 800 Lumens; IC rated
- Direct mount does not require recessed housing or junction box
- Dimmable down to 5%, 0-10V
- Wet location listed for showers and protected ceilings

# **Dimensional and Mounting Details**



2.5" round cutout





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### Order Information\*

### SAMPLE ORDER NUMBER: LCR2089FSE010MW

Models	Lumens	CRI/CCT	Driver	Finish
Models	Lumens	CRI/CCT	Driver	Finish
LCR2 = 2" all- purpose round LED module	<b>08</b> = 800 lumens (nominal)	<b>9FS</b> = 90 CRI minimum, field selectable CCT, choose 2700K, 3000K, 3500K, 4000K or 5000K CCT	<b>E010</b> = UNV 120-277V, 50/60Hz, 0-10V analog 100% to 5% dimming	MW = Matte white
Notes	Notes	Notes	Notes	Notes

### Accessories

Accessories		
Designer Trims LCR2TRMAH = 2" Haze, white flange LCR2TRMSC = 2" Specular, white flange LCR2TRMTBZ = 2" Tuscan bronze LCR2TRMWH = 2" Paintable white	Extension Cable   seleCCTable Driver/Jbox HLB06FSEC - 6 ft. extension cable HLB12FSEC - 12 ft. extension cable HLB20FSEC - 20 ft. extension cable	

# **Product Specifications**

### Module

- Module construction includes LED Array, heat sink, reflector, lens, housing and heat sink where applicable
- Integral aluminum heat sink provides passive thermal cooling achieving L70 at 50,000 hours in IC and non-IC applications

- Mid power LED array provides a uniform source with high efficiency and no pixilation.
- 90 CRI minimum, R9 greater than 50
- Color accuracy within 3 SDCM at the CCT endpoints and 4 SDCM in between endpoints, provide color accuracy and uniformity.
- Correlated Color Temperature (CCT) has a selectable range from 2700K to 5000K (factory default 3000K)
- Use the switch to choose between 2700K. 3000K, 3500K, 4000K, and 5000K CCT

### **Optical Assembly**

- · Regressed flat lens provides uniformity, UGR ≤ 10
- Exceeds ENERGY STAR® color angular uniformity requirements

### Remote Driver/Junction Box

- Metal driver/junction box with captive hinged junction box cover. Listed for (6) #12 AWG 90°C splice conductors, 2-in, 2-out plus (2) ground
- (2) 1/2" conduit pry-outs
- (1) Slide-N-Side™ non-metallic (NM) wire traps all accepts 14-2, 14-3, 12-2, 12-3 U.S and 14-2, 14-3, 12-2 Canadian NM cable
- (3) 4-port push wire nuts with clear caps for quick and reliable mains voltage connections
- Integral keyhole mounting slots facilitate direct mounting to building structure or new construction mounting frame

### Driver

- 120-277V, 50/60Hz constant current driver provides noise free operation
- Continuous, flicker-free dimmer from 100% to 5%
- Plenum rated inline electrical quick connect provides low voltage connection to fixture

### Installation

- Can be installed in 3/8" to 1-1/4" thick ceilings
- · Cutout can utilize standard round hole saw sizes, cutout template provided
- Mousetrap springs hold fixture fitting securely in the ceiling eliminating light leaks
- Can be removed from below the ceiling for service or replacement

### **Mounting / Retention**

- The LCR2 requires no housing or third party junction box
- The remote enclosure may be used in direct contact with insulation.
- Installer must cut template out of drywall and install into aperture with the clips compressed.
- When released, the mousetrap springs will rest on to the back side of the drywall
- Not for installation in recessed cans

### Compliance

- UL certified US and Canada
- Wet location listed and IP64 ingress protection rated, covered ceiling only
- Airtight per ASTM-E283-04
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
- EMI/RFI emissions per FCC 47CFR Part 15 consumer limits, CAN ICES-005(B)/NMB-005 (B)
- Contains no mercury or lead and RoHS
- Photometric testing in accordance with IES LM-79-08
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11
- Can be used for State of California Title 24 high efficacy LED compliance under JA8, reference Modernized Appliance Efficiency Database System (MAEDBS) for 2019 JA8 High Efficacy Liahtina
- ENERGY STAR® certified, reference "Certified Light Fixtures" database

### Warranty

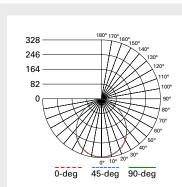
· Five year limited warranty, consult website for details. www.cooperlighting.com



HALO LCR2

## **Photometric Data**





### LCR2089FSE010MW

Spacing criterion: (0-180) 1.22

(90-270) 1.21

(Diagonal) 1.30

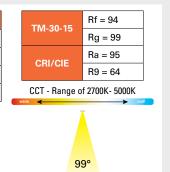
Beam Angle: 99° Lumens: 755

Input Watts: 8.93 W Efficacy: 84.6 LPW

Test Report:

LCR2089FSE010MW.IES

Zonal Lumen	Lumens	% Lumens	
0-30	248	32.8	
0-40	399	52.9	
0-60	662	87.6	
0-90	755	100	



# **Energy and Performance Data**

LCR2089FSE010MW				
	120V	277V		
Max. Lumens	787 @ 5000K			
Input Voltage	120-277V			
Input Frequency	50/60Hz			
Input Power	9.11W	9.26W		
Input Current	0.077A	0.035A		
Power Factor	>0.90			
THD	<20%			
EMI/RFI	FCCTitle 47 CFR, Part 15, Class B CAN ICES-005(B)			
Sound Rating	Class A			
Minimum Starting Temp	-30°C (-22°F)			

Tested in accordance with IES LM63. Field results may vary.

Note: Refer to IES files for more product data.

