Project	Catalog #	Туре	
Prepared by	Notes	Date	



# **HALO**

# LCR4

4-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**



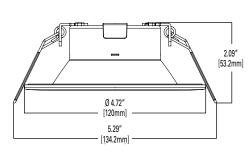




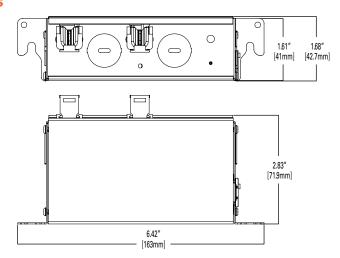
# **Top Product Features**

- Select from 5 CCTs via switch; 2700K, 3000K, 3500K, 4000K, 5000K CCT; 90 CRI
- Up to 1200 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**



4" round cutout





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#### Order Information\*

#### SAMPLE ORDER NUMBER: LCR4089FSE010MW

2 = 1200 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
Lumens	CRI/CCT	Driver	Finish
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#### Accessories

Accessories				
Overized Trim Ring HLB4ROTMW = 4" round oversized trim, matte white	Mounting Frame HL4RSMF = 4" round and square mounting frame			
Designer Trims  LCR4TRMAH = 4" Haze, white flange  LCR4TRMTBZ = 4" Issean bronze  LCR4TRMTBZ = 4" 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 construction includes LED Array, reflector, lens, and housing
- Integral aluminum heat sink provides passive thermal cooling achieving L70 at 50,000 hours in IC and non-IC applications

#### **LED Array**

- · 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 ColorTemperature (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
- (4) 1/2" conduit pry-outs
- (2) 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 guick and reliable mains voltage connections
- Integral keyhole mounting slots facilitate direct mounting to building structure or new construction mounting frame

#### **Driver**

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

#### 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 LCR4 requires no housing or third party iunction 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 compliant
- 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 2016 JA8 High Efficacy Lighting
- ENERGY STAR® certified, reference "Certified Light Fixtures" database

#### Warranty

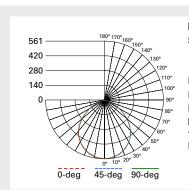
Five year limited warranty, consult website for details, www.cooperlighting.com



**HALO** LCR4

### **Photometric Data**





#### LCR4129FSE010MW

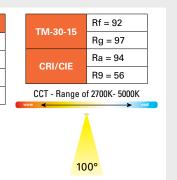
Spacing criterion: (0-180) 1.23

(90-270) 1.22 (Diagonal) 1.31

Beam Angle: 100° Lumens: 1277 Input Watts: 13.58 W Efficacy: 94.1 LPW

Test Report: LCR4129FSE010MW.IES

Zonal Lumen	Lumens	% Lumens
0-30	426	33.4
0-40	691	54.1
0-60	1145	89.6
0-90	1277	99.9



# **Energy and Performance Data**

LCR4129FSE010MW					
	120V	277V			
Max. Lumens	1272 @ 4000K				
Input Voltage	120-277V				
Input Frequency	50/60Hz				
Input Power	14.31W	14.39W			
Input Current	0.120A	0.055A			
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)				