Project	Catalog #	Туре	
Prepared by	Notes	Date	



# **HALO**

# HLB3

3" LED Round Lens Downlight with Remote Driver / Junction Box

**Typical Applications** 

Residential

# Interactive Menu

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- · Dimming Guide

## **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**





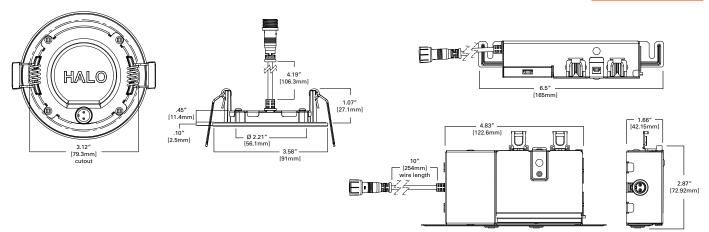


# **Top Product Features**

- Direct mount (does not require recessed housing or junction box)
- · Delivers up to 550 lumens; Achieves L70 at 50,000 hours in IC and non-IC applications
- 2700K, 3000K, 3500K, 4000K and 5000K field selectable CCT
- · 2700K, 3000K, 3500K and 4000K fixed CCT
- 90 CRI (min), R9 50 and color accuracy within 4 SDCM
- · Wet location listed for showers and protected ceilings

# **Dimensional and Mounting Details**







**HALO HLB3 Series** 

## **Order Information**

### SAMPLE ORDER NUMBER: HLB3059301EMWR

Models	Lumens	CRI / CCT	Driver	Finish	Packaging
Models	Lumens	CRI / CCT	Driver	Finish	Packaging
HLB3 = 3-Inch LED lens downlight with remote driver / junction box	05 = 500 lumens (nominal)	927 = 90 CRI minimum, 2700K CCT 930 = 90 CRI minimum, 3000K CCT 935 = 90 CRI minimum, 3500K CCT 940 = 90 CRI minimum, 3500K CCT 9FS = 90 CRI minimum, field selectable 2700K, 3000K, 3500K, 4000K or 5000K CCT	1E = 120V 60Hz, LE & TE phase cut 5% dimming	MW = matte white flange	<b>R</b> = recyclable 4-color unit carton suitable for point of purchase merchandising display
Notes Notes		Notes	Notes	Notes	Notes

#### **Accessories**

Accessories			
HLB3ROTMW = 3" round oversized trim, matte white  Designer Trims HLB3RTRMMW = 3" round decorative overlay, matte white HLB3RTRMMB = 3" round decorative overlay, matte black	Extension Cable   Dedicated Driver/Jbox HLB06EC = 6 ft. extension cable HLB12EC = 12 ft. extension cable HLB20EC = 20 ft. extension cable		
HLB3RTRMSN = 3" round decorative overlay, satin nickel HLB3RTRMTBZ = 3" round decorative overlay, tuscan bronze	Extension Cable   seleCCTable Driver/Jbox HLB06FSEC = 6 ft. extension cable HLB12FSEC = 12 ft. extension cable HLB20FSEC = 20 ft. extension cable		



**HLB3RTRMMW** White (Paintable), Splay



**HLB3RTRMMB** Matte Black, Splay

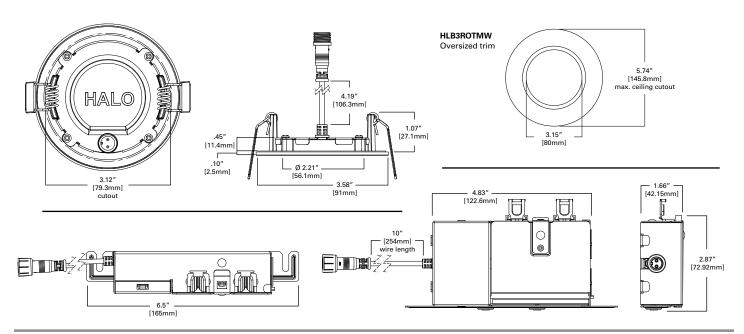


**HLB3RTRMSN** Satin Nickel, Splay



HLB3RTRMTBZ Tuscan Bronze, Splay

# **Dimensional and Mounting Details**





HALO HLB3 Series

## **Product Specifications**

#### Housing

- Die cast aluminum mounting frame with integral flange provides passive thermal cooling achieving L70 at 50,000 hours in IC and non-IC applications
- High impact diffuse lens provides shielding to the light guide minimizing pixilation

#### Gasket

 Closed cell gasket achieves restrictive airflow and wet location listing without additional gaskets or caulking

#### **Optics**

 Precision acrylic light guide organizes source flux into wide distribution with 1.4 spacing criteria, useful for general area illumination

#### **LED Array**

- Plurality of mid power LED's provides a uniform source with high efficiency and long life
- 90 color rendering index (CRI) minimum; R9 greater than 50 provides high color rendering
- Fixed 2700K, 3000K, 3500K and 4000K correlated color temperatures (CCT); color accuracy within 3 SDCM
- Optional field selectable color temperature, select 2700K, 3000K, 3500K, 4000K or 5000K CCT; color accuracy within 4 SDCM
- Meets ENERGY STAR® color angular uniformity requirements, deviation is less than 0.004 u' v'

#### **Remote Driver / Junction Box**

- Pre-galvanized steel 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
- (2) Slide-N-Side™ non-metallic (NM) wire traps allows wiring outside the box
- 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 mounting slots facilitate direct mounting to building structure or mounting frame

#### Drive

- 120V 60 Hz constant current driver provides noise free operation
- Continuous, flicker-free dimming from 100% to 5% with select leading or trailing edge 120V phase cut dimmers
- Plenum rated inline electrical quick connect provides low voltage connection to fixture fitting

#### Installation

- · Can be installed in 1/2" to 1-1/4" thick ceilings
- Cutout utilizes standard round hole saw sizes, cutout template provided
- Heat treated springs hold fixture fitting securely in the ceiling eliminating light leaks
- Can be removed from below the ceiling for service or replacement

#### Compliance

- cULus certified type IC suitable for direct contact with air permeable insulation
- Not recommended for use in direct contact with spray foam insulation, reference NEMA LSD57-2013
- Wet location listed and IP44 ingress protection
- · Airtight per ASTM-E283-04
- Multi-conductor jacketed cable complies with UL CMP/CSA FT-6 and is not required to be installed in conduit or raceway
- 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
- · 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. <a href="https://www.cooperlighting.com/warranty">www.cooperlighting.com/warranty</a>

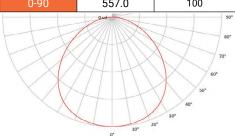
# **Energy Data**

Lumens	500 Series
Input Voltage	120V
Input Current	100 (mA)
Input Power	9.0 (W)
Efficiency	60 (LPW)
Inrush (A)	2.2 A @ 42mS
THD	≤ 20%
PF	≥ 0.90
T Ambient	-30° - +40°C
Sound Rating	≤ 22 dba

HALO HLB3 Series

### **Photometric Data**

HLB3059301EMW-3000K				
Luminair	557			
Input	9			
LER (	61.89			
	0-180	1.31		
Spacing Criteria	90-270	1.31		
	Diagonal	1.4		
Beam angle	111.4			
Field angle	(degrees)	162.3		
Zonal lumen	Lumens	% Lumens		
0-30	154.3	27.7		
0-40	305.2	54.8		
0-60	445.6	80		
0-90	557.0	100		
90°				

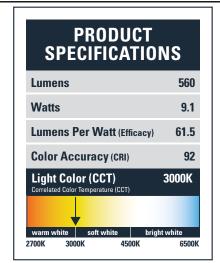


<sup>\*</sup> Tested in accordance with IES LM63. Field results may vary.

#### Color Metric Summary - 3000K



### **Product Specifications**



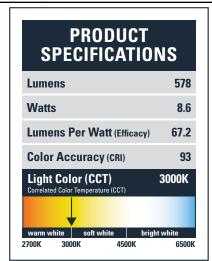
HLB3 3-inch	CCT	Lumens	Power (W)	LPW
Fixed CCT	2700K	557	9	61.9
	3000K	577	9	64.1
	3500K	556	9	61.8
	4000K	583	9	64.8

HLB3059FS1EMW-3000K				
Luminair	578			
Input	Input watts			
LER (	LER (LPW)			
	0-180	1.12		
Spacing Criteria	90-270	1.12		
Citteria	Diagonal	1.22		
Beam angle	87.9			
Field angle	Field angle (degrees)			
Zonal lumen	Lumens	% Lumens		
0-30	164.2	28.4		
0-40	268.8	46.5		
0-60	464.7	80.4		
0-90	578.0	100		
	1			

#### Color Metric Summary - 3000K

TM 20 15	Rf = 92			
TM-30-15	Rg = 99			
ODI/OIE	Ra = 95.2			
CRI/CIE	R9 = 73.7	110°		
CCT - Pange of 2700K- 5000K				

#### **Product Specifications**



HLB3059FS1EMW	ССТ	Lumens	Power (W)	LPW
Selectable CCT	2700K	573	8.5	67.4
	3000K	578	8.6	67.2
	3500K	595	8.6	69.2
	4000K	603	8.6	70.1
	5000K	607	8.6	70.6



<sup>\*</sup> Tested in accordance with IES LM63. Field results may vary.