

Project		Catalog #		Type	
Prepared by		Notes		Date	



# HALO

## HLB12

### 12" LED Lens Downlight with Remote Driver / Junction Box

#### Typical Applications

Residential, Mixed-Use, Light Commercial

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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 JAB.

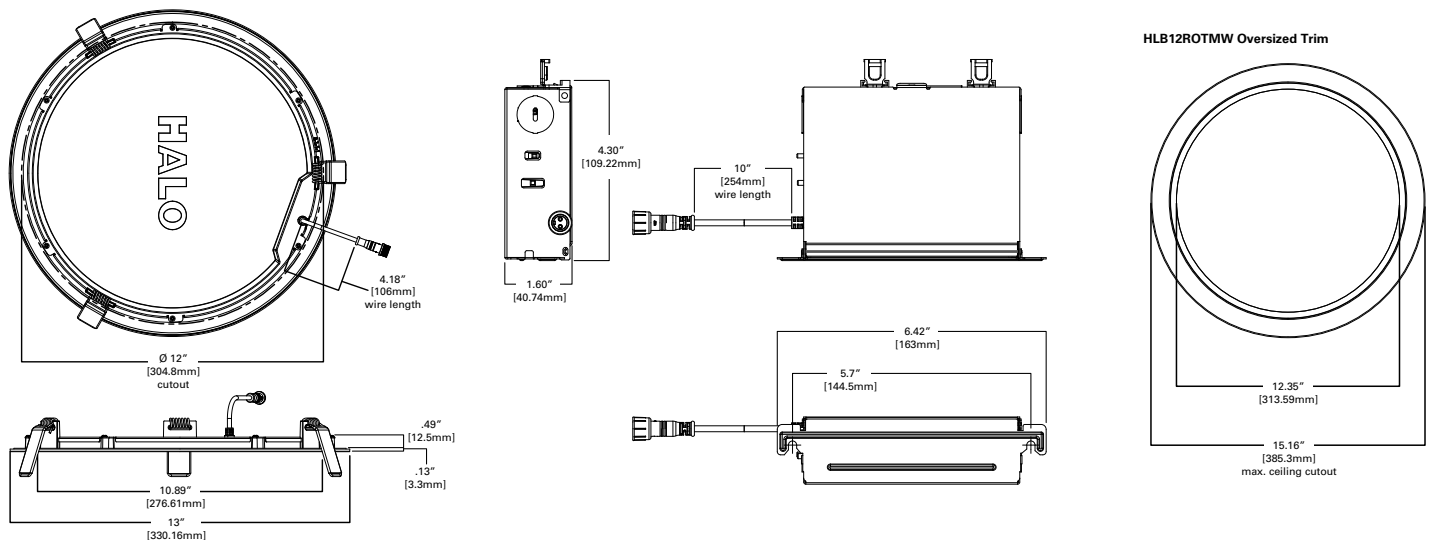
#### Product Features



#### Top Product Features

- Direct mount (does not require recessed housing or junction box)
- 1300lm, 1900lm, or 2300lm selectable Lumen; Achieves L70 at 50,000 hours in IC and non-IC applications
- 2700K, 3000K, 3500K, 4000K and 5000K field selectable CCT
- 90 CRI (min), R9 50 and color accuracy within 4 SDCM
- Wet location listed for showers and protected ceilings; 120V-277V; 0-10V Dim

#### Dimensional and Mounting Details



## Order Information

SAMPLE ORDER NUMBER: **HLB12LS9FSE010MWR**

Models	Lumens	CRI / CCT	Driver	Finish	Packaging
<b>HLB12</b> = 12-Inch LED lens downlight with remote driver / junction box	<b>LS</b> = Lumen selectable 1300, 1900, 2300 lumens (nominal)	<b>9FS</b> = 90 CRI minimum, field selectable 2700K, 3000K, 3500K, 4000K or 5000K CCT	<b>E010</b> = 120/277V 60Hz, 0-10V dimmable	<b>MW</b> = matte white flange	<b>R</b> = recyclable 4-color unit carton suitable for point of purchase merchandising display
<b>Notes</b>	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>

### Accessories

Accessories
<b>HLB12ROTMMW</b> = 12" oversized trim
<b>Extension Cable   selectable Driver/Jbox</b>
<b>HLB06FSEC</b> - 6 ft. extension cable
<b>HLB12FSEC</b> - 12 ft. extension cable
<b>HLB20FSEC</b> - 20 ft. extension cable

## 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
- Optional overlays with designer finishes provide design options, matte white is field paintable to match any décor
- 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
- Available in 90 CRI minimum, R9 greater than 50 and color accuracy within 4 SDCM providing color uniformity
- Field selectable color temperature, select 2700K, 3000K, 3500K, 4000K or 5000K CCT
- Field selectable lumen levels of 1400, 1900 or 2400.
- Meets ENERGY STAR® color angular uniformity requirements, deviation is less than 0.006 u' v'

### Remote Driver/Junction Box

- Steel driver/junction box with captive hinged junction box cover
- Listed for (6) #12 AWG 90° C splice conductors
- (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 keyhole mounting slots facilitate direct mounting to building structure or new construction mounting frame

### Driver

- 120V/277V 50/60 Hz constant current driver provides noise free operation
- Continuous, flicker-free dimming from 100% to 5% with select 0-10V dimmers
- Plenum rated inline electrical quick connect provides low voltage connection to fixture fitting
- Optional extension cables allow remote mounting

### 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
- Light source is less than 1/2" thick and can span a 2" nominal framing member
- Can be removed from below the ceiling for service or replacement

### Optical Mounting Frame

- Pre-galvanized steel mounting frame locates fixture fittings during electrical rough in and provides cutout guidance for drywall contractor
- Provides tool-less attachment of remote driver / junction box

### 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 IP65 ingress protection
- 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
- 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 2019 JA8 High Efficacy Lighting
- ENERGY STAR® certified, reference "Certified Light Fixtures" database

### Warranty

- Five-year limited warranty, consult website for details. [www.cooperlighting.com](http://www.cooperlighting.com)

## Energy Data

Lumens	1300 Series		1900 Series		2300 Series	
Input Voltage	120V	277V	120V	277V	120V	277V
Input Current	153 (mA)	72 (mA)	220 (mA)	102 (mA)	276 (mA)	115 (mA)
Input Power	16.7 (W)		24.4 (W)		31.6 (W)	
Efficiency	78.9 (LPW)		75.4 (LPW)		71.5 (LPW)	
Inrush (A)	1.58 A @ 145 $\mu$ S	1.82 A @142 $\mu$ S	1.51 A @ 132 $\mu$ S	1.88 A @ 136 $\mu$ S	1.43 A @ 153 $\mu$ S	1.72 A @ 171 $\mu$ S
THD	$\leq 20\%$					
PF	$\geq 0.90$					
T Ambient	$-30^{\circ} - +40^{\circ}\text{C}$					
Sound Rating	$\leq 22$ dba					

## Product Specifications

PRODUCT SPECIFICATIONS	
Lumens	2258
Watts	31.6
Lumens Per Watt (Efficacy)	71.5
Color Accuracy (CRI)	94
Light Color (CCT) Correlated Color Temperature (CCT)	3000K
<p>2700K 3000K 4500K 6500K</p> <p>warm white soft white bright white</p>	

HLB12 12-inch	CCT	Lumens	Power (W)	LPW
Field Selectable CCT 2300 Lumen	2700	2181	31.5	69.2
	3000	2258	31.6	71.5
	3500	2334	31.6	73.9
	4000	2400	31.6	75.9
	5000	2495	31.5	79.2