

|             |  |           |  |      |  |
|-------------|--|-----------|--|------|--|
| Project     |  | Catalog # |  | Type |  |
| Prepared by |  | Notes     |  | Date |  |



# HALO

## HLB8

8" LED Lens Downlight with Remote Driver / Junction Box

### Typical Applications

Residential, Mixed-Use

### Interactive Menu

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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.

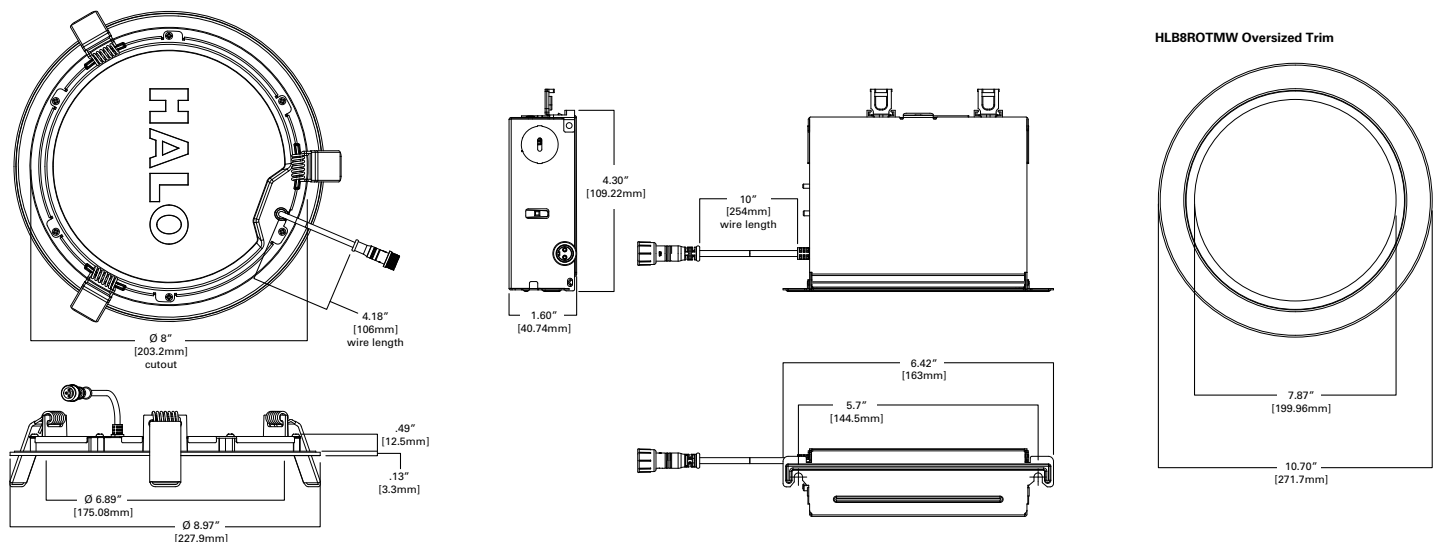
### Product Features



### Top Product Features

- Direct mount (does not require recessed housing or junction box)
- Delivers up to 1600 lumens; 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; Available in 120V

### Dimensional and Mounting Details



## Order Information

SAMPLE ORDER NUMBER: **HLB8169FS1EMWR**

| Models  | Lumens                            | CRI / CCT   | Driver  | Finish                         | Packaging  |
|---|-----------------------------------|---|---|--------------------------------|--|
| <b>HLB8</b> = 8-Inch LED lens downlight with remote driver / junction box | <b>16</b> = 1600 lumens (nominal) | <b>9FS</b> = 90 CRI minimum, field selectable 2700K, 3000K, 3500K, 4000K or 5000K CCT | <b>1E</b> = 120V 60Hz, LE & TE phase cut 5% dimming | <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>HL8RSMF</b> = 8" round or square mounting frame<br><b>HLB8ROTMW</b> = 8" oversized trim<br><br><b>Extension Cable   select Table Driver / Jbox</b><br><b>HLB06FSEC</b> - 6 ft. extension cable<br><b>HLB12FSEC</b> - 12 ft. extension cable<br><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
- 1600 lumens nominal.
- 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) ½" 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 60 Hz constant current driver provides noise free operation
- Continuous, flicker-free dimming from 100% to 5% with select phase cut 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 ½" 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

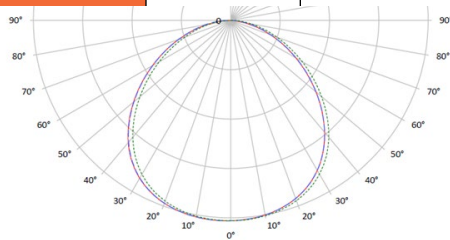
- Five-year limited warranty, consult website for details. [www.cooperlighting.com](http://www.cooperlighting.com)

## Energy Data

|               |                    |
|---------------|--------------------|
| Lumens        | 1600               |
| Input Voltage | 120V               |
| Input Current | 170 (mA)           |
| Input Power   | 20.9 (W)           |
| Efficiency    | 84.3 (LPW)         |
| Inrush (A)    | 1.2 A @ 72 $\mu$ S |
| THD           | $\leq$ 20%         |
| PF            | $\geq$ 0.90        |
| T Ambient     | -30° - +40°C       |
| Sound Rating  | $\leq$ 22 dba      |

## Photometric Data

| HLB8169FS1EMW-3000K   |          |          |
|-----------------------|----------|----------|
| Luminaire lumens      | 1761     |          |
| Input watts           | 20.9     |          |
| LER (LPW)             | 84.3     |          |
| Spacing Criteria      | 0-180    | 1.26     |
|                       | 90-270   | 1.26     |
|                       | Diagonal | 1.38     |
| Beam angle (degrees)  | 112      |          |
| Field angle (degrees) | 163      |          |
| Zonal lumen           | Lumens   | % Lumens |
| 0-30                  | 474      | 26.8     |
| 0-40                  | 778      | 43.9     |
| 0-60                  | 1380     | 78       |
| 0-90                  | 1768     | 99.9     |



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

## Color Metric Summary - 3000K

|          |           |
|----------|-----------|
| TM-30-15 | Rf = 94   |
|          | Rg = 99   |
| CRI/CIE  | Ra = 96   |
|          | R9 = 69.9 |



CCT - Range of 2700K- 5000K

## Product Specifications

| PRODUCT SPECIFICATIONS                                  |                         |
|---|-------------------------|
| Lumens  | 1761                    |
| Watts   | 20.9                    |
| Lumens Per Watt (Efficacy)                              | 84.3                    |
| Color Accuracy (CRI)                                    | 94                      |
| Light Color (CCT)<br>Correlated Color Temperature (CCT) | 3000K                   |
|   |                         |
|   | 2700K 3000K 4500K 6500K |