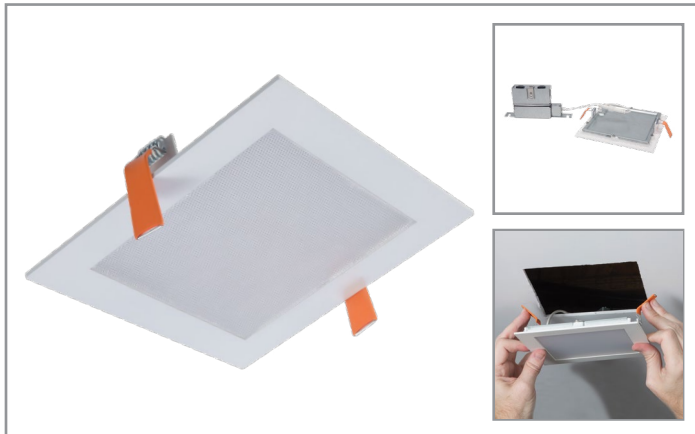


|             |  |           |  |      |  |
|-------------|--|-----------|--|------|--|
| Project     |  | Catalog # |  | Type |  |
| Prepared by |  | Notes     |  | Date |  |



# HALO

## HLB6S

6" LED Square Lens Downlight with Remote Driver / Junction Box

### Typical Applications

Residential

### Interactive Menu

- Order Information page 2
- Photometric Data page 2
- Control Solutions
- Connected Systems
- Product Warranty

### 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.

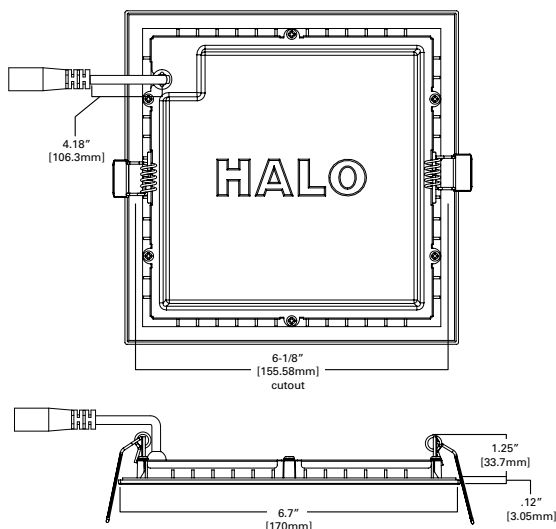
### Product Features



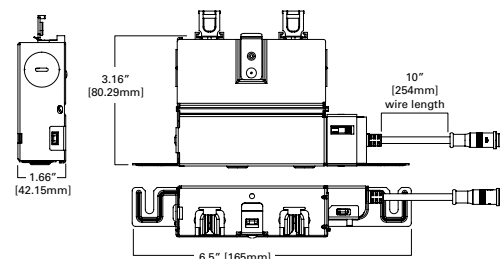
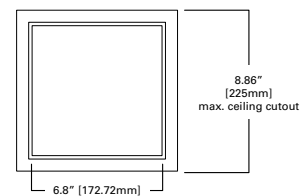
### Top Product Features

- Direct mount (does not require recessed housing or junction box)
- Delivers up to 1,150 lumens; Achieves L70 at 50,000 hours in IC and non-IC applications
- 2700K, 3000K, 3500K, 4000K and 5000K field selectable CCT; 3000K and 4000K fixed CCT
- 90 CRI (min), R9 50 and color accuracy within 4 SDCM
- Wet location listed for showers and protected ceilings; Available in 120V or 120-277V

### Dimensional and Mounting Details



HLB6SOTMW  
Oversized trim



## Order Information

SAMPLE ORDER NUMBER: HLB6S099FS1EMWR

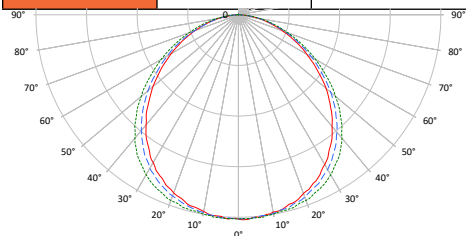
| Models                                                                            | Lumens                           | CRI / CCT                                                                                                                                                                 | Driver                                                                                                         | Finish                         | Packaging                                                                                      |
|-----------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------|
| <b>HLB6S</b> = 6-Inch LED square lens downlight with remote driver / junction box | <b>09</b> = 900 lumens (nominal) | <b>930</b> = 90 CRI minimum, 3000K CCT<br><b>940</b> = 90 CRI minimum, 4000K CCT<br><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<br><b>E010</b> = 120-277V, 0-10V 5% dimming <sup>(1)</sup> | <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><br>(1) E010 driver is only available in FS color temperature.                                     | <b>Notes</b>                   | <b>Notes</b>                                                                                   |

## Accessories

| Accessories                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>HL6RSMF</b> = 6" round and square mounting frame<br><b>HLB6SOTMW</b> = 6" square oversized trim, matte white<br><br><b>Designer Trims</b><br><b>HLB6STRMMW</b> = 6" square decorative overlay, matte white<br><b>HLB6STRMSN</b> = 6" square decorative overlay, satin nickel<br><b>HLB6STRMTBZ</b> = 6" square decorative overlay, tuscan bronze | <b>Extension Cable   Dedicated Driver/Jbox</b><br><b>HLB06EC</b> – 6 ft. extension cable<br><b>HLB12EC</b> – 12 ft. extension cable<br><b>HLB20EC</b> – 20 ft. extension cable<br><br><b>Extension Cable   selectTable 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 |

## Photometric Data

| HLB6S099FS1EMWR-3000K |          |          |
|-----------------------|----------|----------|
| Luminaire lumens      |          | 975      |
| Input watts           |          | 13.7     |
| LER (LPW)             |          | 71.2     |
| Spacing Criteria      | 0-180    | 1.22     |
|                       | 90-270   | 1.30     |
|                       | Diagonal | 1.38     |
| Beam angle (degrees)  |          | 110.3    |
| Field angle (degrees) |          | 161.8    |
| Zonal lumen           | Lumens   | % Lumens |
| 0-30                  | 273      | 28       |
| 0-40                  | 449      | 46.1     |
| 0-60                  | 782      | 80.2     |
| 0-90                  | 975      | 100      |

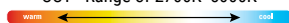


\* Tested in accordance with IES LM63. Field results may vary.

## Color Metric Summary - 3000K

|          |           |
|----------|-----------|
| TM-30-15 | Rf = 92.7 |
|          | Rg = 98   |
| CRI/CIE  | Ra = 94.9 |
|          | R9 = 74.9 |

CCT - Range of 2700K- 5000K



## Product Specifications

| PRODUCT SPECIFICATIONS             |       |
|------------------------------------|-------|
| Lumens                             | 953   |
| Watts                              | 14.4  |
| Lumens Per Watt (Efficacy)         | 66.4  |
| Color Accuracy (CRI)               | 92    |
| Light Color (CCT)                  | 3000K |
| Correlated Color Temperature (CCT) |       |
|                                    |       |
| 2700K                              | 3000K |
| 4500K                              | 6500K |

| HLB4 4-inch          | CCT   | Lumens | Power (W) | LPW  |
|----------------------|-------|--------|-----------|------|
| Fixed CCT            | 3000K | 956    | 13.8      | 69.3 |
|                      | 4000K | 987    | 13.8      | 71.5 |
| Field Selectable CCT | 2700K | 954    | 13.7      | 69.6 |
|                      | 3000K | 975    | 13.7      | 71.1 |
|                      | 3500K | 1002   | 13.7      | 73.2 |
|                      | 4000K | 1012   | 13.7      | 73.9 |
|                      | 5000K | 1009   | 13.7      | 73.6 |

## Energy Data

|               |              |
|---------------|--------------|
| Lumens        | 900 Series   |
| Input Voltage | 120V         |
| Input Current | 120 (mA)     |
| Input Power   | 14.0 (W)     |
| Efficiency    | 66 (LPW)     |
| Inrush (A)    | 2.2 A @ 14mS |
| THD           | ≤ 20%        |
| PF            | ≥ 0.90       |
| T Ambient     | -30° - +40°C |
| Sound Rating  | ≤ 22 dba     |

## 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
- Available in 90 CRI minimum, R9 greater than 50 provides high color rendering
- Fixed 3000 and 4000 K CCT color temperatures, color accuracy within 3 SDCM
- Optional field selectable color temperature, select 2700, 3000, 3500, 4000 or 5000 K CCT, color accuracy within 4 SDCM
- Meets Energy Star color angular uniformity requirements, deviation is less than 0.006 u' v'

### Remote Driver / Junction Box

- Die formed 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) 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 mounting holes facilitate direct mounting to building structure or mounting frame

### Driver

- 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, CMP/FT6 rated

### Installation

- Can be installed in 1/2" to 1-1/4" thick ceilings
- Cutout template provided
- Heat treated springs hold fixture fitting securely in the ceiling eliminating light leaks
- Housing is less than ½" thick and can span a 2" nominal framing member
- 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
- 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