

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



## HALO HOME™

### MicroEdge HLB4

Smart 4" LED Lens Downlight with Bluetooth® Mesh connectivity and remote driver/junction box

#### Typical Applications

Residential

#### Interactive Menu

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- Photometric Data page 2
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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.

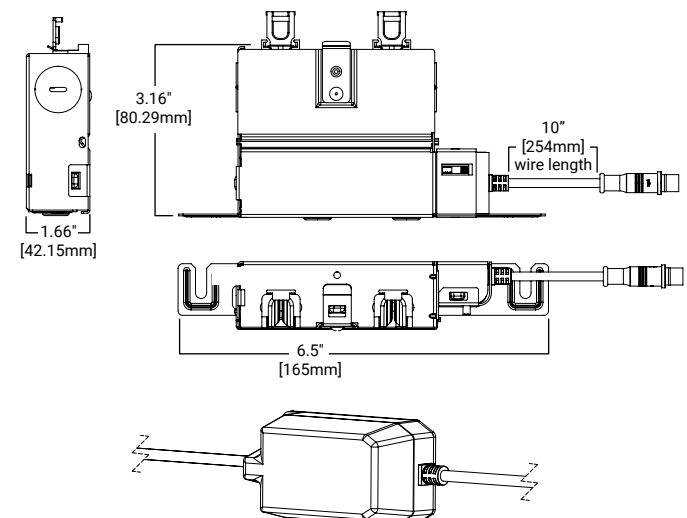
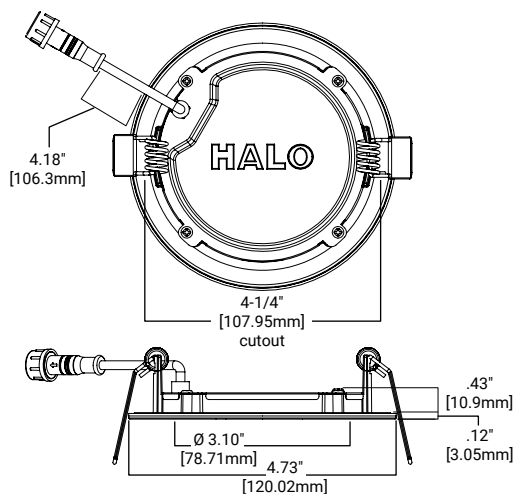
#### Product Features



#### Top Product Features

- Delivers up to 742 lumens, achieves L70 at 50,000 hours in IC and non-IC applications (120V)
- Adjustable white tuning via the app: 2700K-5000K, 90 CRI (min), R9 50 and color accuracy within 4 SDCM
- Connects to the HALO Home Bluetooth Mesh network, no hub required
- Suitable for new construction and remodel
- Wet location listed for showers and protected ceilings

#### Dimensional Details



## Order Information

SAMPLE ORDER NUMBER: **HLB4069BLE40AWH**

| Models                                                                          | Lumens                           | CRI / CCT                                                                           | Protocol                                                | Finish                         |
|---------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------|
| <b>HLB4</b> = 4-Inch LED lens<br>downlight with remote<br>driver / junction box | <b>06</b> = 600 lumens (nominal) | <b>9</b> = 90 CRI minimum, white tuning, select CCT<br>2700K - 5000K via mobile app | <b>BLE40A</b> = Bluetooth Mesh<br>wireless control, 4.0 | <b>WH</b> = Matte white baffle |
| Notes                                                                           | Notes                            | Notes                                                                               | Notes                                                   | Notes                          |

## Accessories

## Accessories

## Mounting Frames

HL4RSMF = 4" round and square mounting frame  
HLB4ROTMW = 4" round oversized trim, matte white

## Designer Trims

HLB4RTRMMW = 4" round decorative overlay, matte white  
HLB4RTRMSN = 4" round decorative overlay, satin nickel  
HLB4RTRMTBZ = 4" round decorative overlay, tuscan bronze

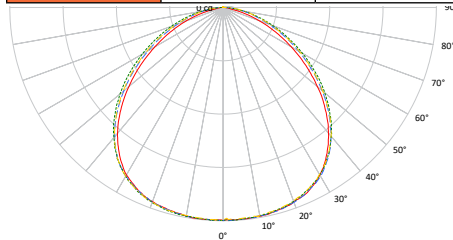
## Extension Cables (HALO Home-only)

HLB06BLEEC = 6 ft. extension cable  
HLB12BLEEC = 12 ft. extension cable  
HLB20BLEEC = 20 ft. extension cable

(DISCONTINUED)

## Photometric Data

| HLB4069BLE40AWH-3000K |        |          |
|-----------------------|--------|----------|
| Luminaire lumens      |        | 678      |
| Input watts           |        | 9.67     |
| LER (LPW)             |        | 70.1     |
| Spacing Criteria      | 0      | 1.33     |
|                       | 90     | 1.34     |
|                       | 45     | 1.41     |
| Beam angle (degrees)  |        | 110      |
| Field angle (degrees) |        | 155      |
| Zonal lumen           | Lumens | % Lumens |
| 0-30                  | 192    | 28.3     |
| 0-40                  | 318    | 47       |
| 0-60                  | 553    | 81.6     |
| 0-90                  | 674    | 99.4     |
| 90-180                | 4      | 0.6      |
| 0-180                 | 678    | 100      |



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

## Energy Data

|               |                    |
|---------------|--------------------|
| Lumens        | 697 lm @ 3000K     |
| Input Voltage | 120V               |
| Input Current | 85 (mA)            |
| Input Power   | 9.7(W)             |
| Hertz         | 60                 |
| Efficiency    | 71.9 (LPW)         |
| Inrush        | 1.87 A @50 $\mu$ S |
| THD           | $\leq 20\%$        |
| PF            | $\geq 0.90$        |
| T Ambient     | -30° - +40°C       |
| Sound Rating  | $\leq 22$ dba      |

## Product Specifications

## PRODUCT SPECIFICATIONS

Brightness 697 lumens

Energy Used 9.7 watts

Lumens per Watt (Efficacy) 71.9

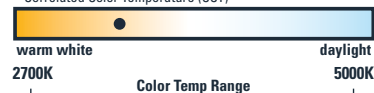
Life (Based on 6 hrs/day) 22 yrs

Color Accuracy 94

Correlated Color Temperature (CRI)

Light Color (CCT) 3000K

Correlated Color Temperature (CCT)



Performance metrics are measured at the factory setting: 3000K  
Las métricas de rendimiento se miden en la configuración de fábrica: 3000K

## Color Metric Summary - 3000K

|          |         |
|----------|---------|
| TM-30-15 | Rf = 92 |
|          | Rg = 99 |
| CRI/CIE  | Ra = 95 |
|          | R9 = 71 |

CCT - Range of 2700K- 5000K



110°

| HLB4 4-inch                          | CCT   | Lumens | Power (W) | LPW  |
|--------------------------------------|-------|--------|-----------|------|
| In-app<br>Adjustable<br>White Tuning | 2700K | 683    | 9.9       | 69.0 |
|                                      | 3000K | 697    | 9.7       | 71.9 |
|                                      | 3500K | 715    | 9.7       | 73.7 |
|                                      | 4000K | 728    | 9.8       | 74.3 |
|                                      | 5000K | 742    | 9.9       | 74.9 |

## Product Specifications

### Wireless System

- For use with the HALO Home mobile app
- Bluetooth low energy (BLE) mesh allows on/off, white tuning and dimming to be controlled wirelessly with companion wall stations, smart phones and tablets using HALO Home mobile application
- Setup Groups, Scenes and Schedules to automate lighting with the HALO Home mobile app

### Wireless Pairing

- See HALO Home Quick Start Guide for wireless setup, guidance and troubleshooting: [BringHaloHome.com](http://BringHaloHome.com)

### Bluetooth Mesh

- HALO Home products work better together Smartphone(s) will need to be within range of HALO Home device to control (~35 ft)
- Device-to-device communication is ~100 ft line-of-sight
- Expand and strengthen the Bluetooth network range by adding HALO Home devices. Learn more at [BringHaloHome.com](http://BringHaloHome.com)

### 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 CRI minimum; R9 greater than 50 provides high color rendering
- Color is tunable through the HALO Home app
- Meets ENERGY STAR® color angular uniformity requirements; Deviation is less than 0.006 u' v'

### Remote Driver/Junction Box

- Pre-galvanized steel driver/junction box with captive hinged cover
- Listed for six #12 AWG 90° C splice conductors: two in, two out plus two ground
- Two 1/2" conduit pry-outs
- Two Slide-N-Side™ non-metallic (NM) wire traps allows wiring outside the box
- Accepts NM cable types: 14-2, 14-3, 12-2, 12-3 (U.S.) and 14-2, 14-3, 12-2 (Canadian)
- Three 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
- 6-, 12-, and 20-ft extension cables available for centralized junction box installation

### Driver

- Available in 120V providing noise free operation
- Continuous flicker-free dimming down to 5% with HALO Home Controllers (Accessory & Anyplace Dimmers and Scene Keypad)
- 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 utilizes standard round hole saw sizes; cutout template provided

| Hole Saw Sizing | Min | Max    |
|-----------------|-----|--------|
| HLB 4"          | 4"  | 4 1/4" |

- Heat treated springs hold fixture fitting securely in the ceiling eliminating light leak
- Housing 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

### Optional Mounting Frame

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

### Compliance

- UL 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
- 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