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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Product Certification

ENERGY STAR

IECC International Energy Conservation Code High Efficacy Compliance

Efficiency Standards T24 Can be used to comply with 2019 Title 24 Part 6 LED Enclosed Light Source Requirements (JA8)

FC

RoHS COMPLIANT

UL CERTIFIED SAFETY

Refer to ENERGY STAR® Certified Products List.
Can be used to comply with California Title 24 High Efficacy requirements.
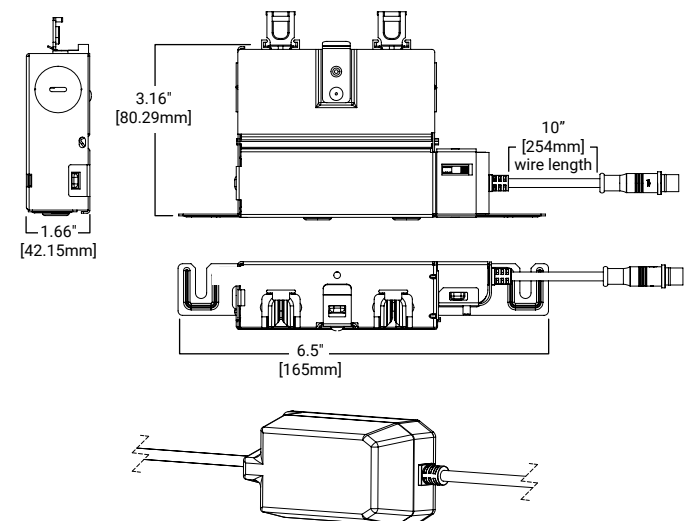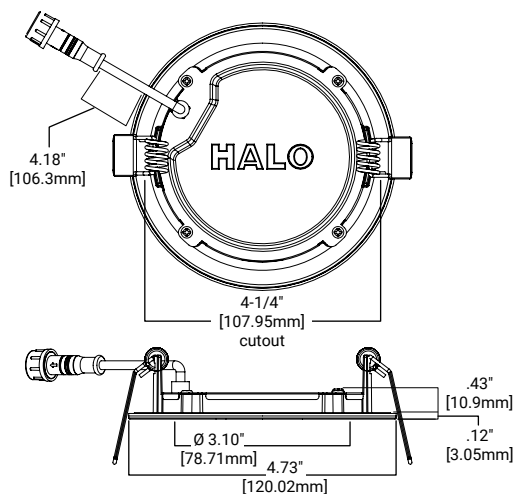Certified to California Appliance Efficiency Database under JA8.

Product Features

adjustable white   air-tite   Showerlight   Download on the App Store   GET IT ON Google Play   Bluetooth®

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

4.18" [106.3mm]

HALO

4-1/4" [107.95mm] cutout

.43" [10.9mm]

Ø 3.10" [78.71mm]   4.73" [120.02mm]

.12" [3.05mm]

3.16" [80.29mm]

1.66" [42.15mm]

10" [254mm] wire length

6.5" [165mm]

COOPER
Lighting Solutions

Order Information

SAMPLE ORDER NUMBER: **HLB4069BLE40AWH**

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

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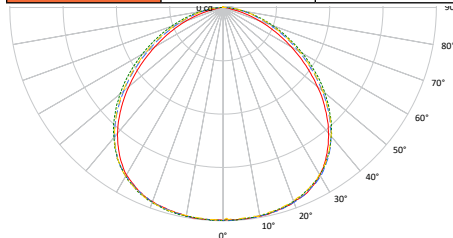
* Tested in accordance with IES LM63. Field results may vary.

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 µS
THD	≤ 20%
PF	≥ 0.90
T Ambient	-30° - +40°C
Sound Rating	≤ 22 dba

Color Metric Summary - 3000K

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

110°

CCT - Range of 2700K- 5000K

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 Correlated Color Temperature (CRI)	**94**
Light Color (CCT) Correlated Color Temperature (CCT)	**3000K**

warm white — daylight
2700K — Color Temp Range — **5000K**
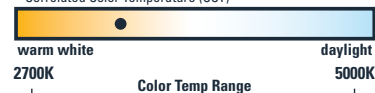
Performance metrics are measured at the factory setting: 3000K
Las métricas de rendimiento se miden en la configuración de fábrica: 3000K

HLB4 4-inch	CCT	Lumens	Power (W)	LPW
In-app Adjustable 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

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

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

COOPER
Lighting Solutions

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Specifications and dimensions
subject to change without notice.

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