Project		Catalog #		Type	
Prepared by		Notes		Date	

HALO

HLB8

8" LED Lens Downlight with Remote Driver / Junction Box

Typical Applications

Residential, Mixed-Use

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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.
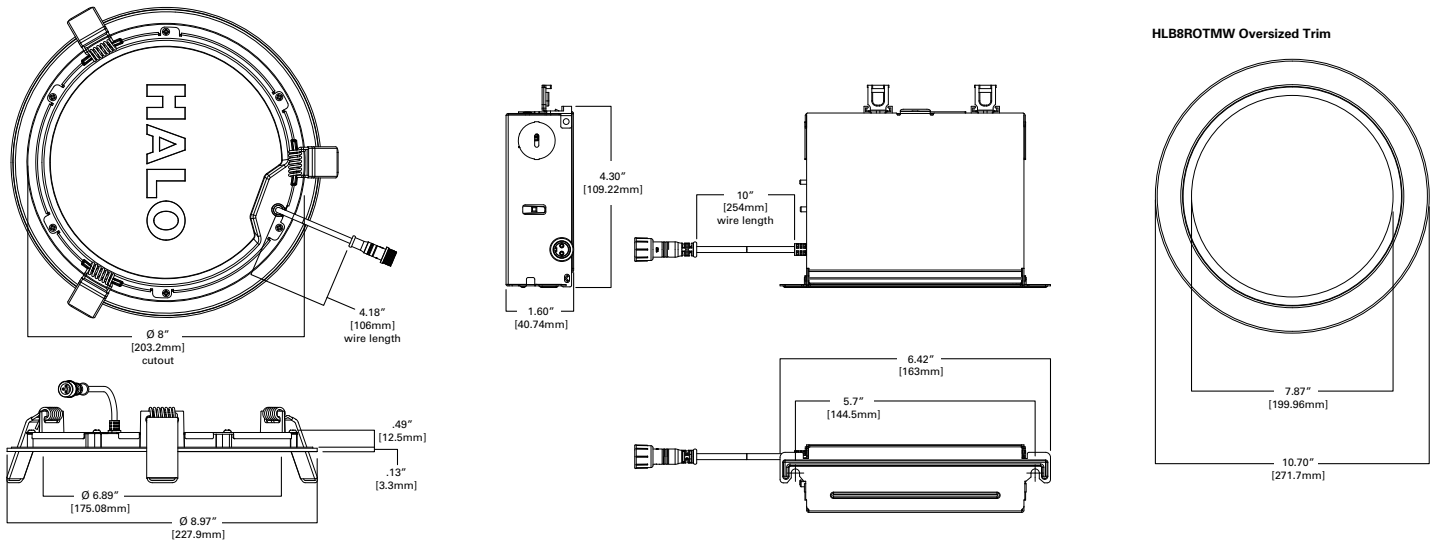Certified to California Appliance Efficiency Database under JA8.

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

Ø 8"
[203.2mm]
cutout

4.18"
[106mm]
wire length

.49"
[12.5mm]

.13"
[3.3mm]

Ø 6.89"
[175.08mm]

Ø 8.97"
[227.9mm]

4.30"
[109.22mm]

1.60"
[40.74mm]

10"
[254mm]
wire length

6.42"
[163mm]

5.7"
[144.5mm]

HLB8ROTMW Oversized Trim

7.87"
[199.96mm]

10.70"
[271.7mm]

Cooper Lighting Solutions

Order Information

SAMPLE ORDER NUMBER: **HLB8169FS1EMWR**

Models	Lumens	CRI / CCT	Driver	Finish	Packaging
Models	**Lumens**	**CRI / CCT**	**Driver**	**Finish**	**Packaging**
HLB8 = 8-Inch LED lens downlight with remote driver / junction box	**16** = 1600 lumens (nominal)	**9FS** = 90 CRI minimum, field selectable 2700K, 3000K, 3500K, 4000K or 5000K CCT	**1E** = 120V 60Hz, LE & TE phase cut 5% dimming	**MW** = matte white flange	**R** = recyclable 4-color unit carton suitable for point of purchase merchandising display
Notes	**Notes**	**Notes**	**Notes**	**Notes**	**Notes**

Accessories
Accessories
HL8RSMF = 8" round or square mounting frame **HLB8ROTMW** = 8" oversized trim **Extension Cable	seleCCTable Driver/Jbox** **HLB06FSEC** – 6 ft. extension cable **HLB12FSEC** – 12 ft. extension cable **HLB20FSEC** – 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

- Aluminum 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 2016 JA8 High Efficacy Lighting
- ENERGY STAR® certified, reference "Certified Light Fixtures" database
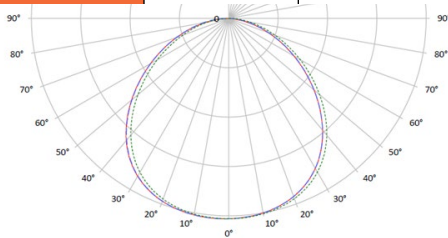
Warranty

- Five-year limited warranty, consult website for details. 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 μS
THD	≤ 20%
PF	≥ 0.90
T Ambient	-30° - +40°C
Sound Rating	≤ 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

112°

CCT - Range of 2700K- 5000K

warm ← → cool

Product Specifications

PRODUCT SPECIFICATIONS

Lumens	**1761**
Watts	**20.9**
Lumens Per Watt (Efficacy)	**84.3**
Color Accuracy (CRI)	**94**
Light Color (CCT) Correlated Color Temperature (CCT)	**3000K**

warm white	soft white	bright white	
2700K	3000K	4500K	6500K

HLB8 8-inch	CCT	Lumens	Power (W)	LPW
Field Selectable CCT	2700K	1325	16.9	78.4
	3000K	1382	16.9	81.8
	3500K	1443	16.9	85.4
	4000K	1502	17.0	88.4
	5000K	1599	17.0	94.1

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