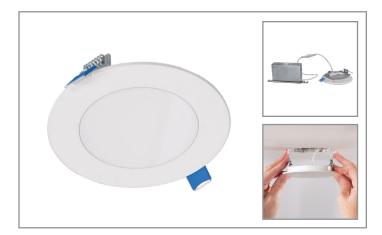
Project	Catalog #	Туре	
Prepared by	Notes	Date	



HALO

HLBSL4

4-Inch LED Lens Downlight with Remote **Driver / Junction Box**

Typical Applications

Residential

Interactive Menu

- Order Information page 2
- Product Specifications page 2
- Photometric Data page 3
- Energy & Performance Data page 3
- Product Warranty
- · Dimming Guide

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



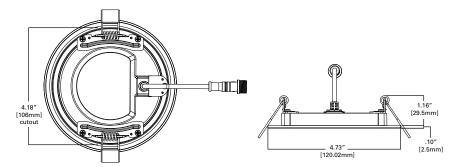




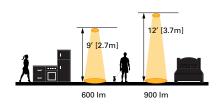
Top Product Features

- · Direct mount does not require recessed housing or junction box
- Delivers up to 800 lumens
- · Achieves L70 at 35,000 hours in IC and non-IC applications
- · Field Selectable color temperature (3 colors), select
 - · 2700K, 3000K, 3500K
 - 3000K, 4000K, 5000K
 - 4000K, 5000K, 6000K

Dimensional and Mounting Details



Scale







HALO HLBSL4

Order Information

SAMPLE ORDER NUMBER: HLBSL4069FS351EMWR

Models	Lumens	CRI / CCT	Driver	Finish	Packaging
Models	Lumens	CRI / CCT	Driver	Finish	Packaging
HLBSL4 = 4-Inch LED smooth lens downlight with plastic housing and remote driver / junction box	06 = 650 lumens (nominal)	9FS23 = 90 CRI minimum, field selectable 2700K, 3000K, 3500K CCT 9FS35 = 90 CRI minimum, field selectable 3000K, 4000K, 5000K CCT 9FS46 = 90 CRI minimum, field selectable 4000K, 5000K, 6000K CCT	1E = 120V 60Hz, LE & TE phase cut 10% 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	
HL4RSMF = 4" new construction mounting frame HLB4ROTMW = 4" round oversized trim ring, 6.875" OD, matte white	
Extension Cable seleCCTable Driver/Jbox HLB06FSEC = 6 ft. extension cable HLB12FSEC = 12 ft. extension cable HLB20FSEC = 20 ft. extension cable	
Notes	

Product Specifications

Housing

 Plastic mounting frame with integral flange provides passive thermal cooling achieving L70 at 35,000 hours in IC and non-IC applications

Optics

 Precision acrylic light guide organizes source flux into wide distribution with 1.26 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
- · Field Selectable color temperature (3 colors):
 - · 2700K, 3000K, 3500K
 - 3000K, 4000K, 5000K
 - · 4000K, 5000K, 6000K
 - Color accuracy of 4 step at the ends, 7 step in the middle
- 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 (4) ½" conduit pry-outs
- Accepts 14-2, 14-3, 12-2, 12-3 U.S. and 14-2, 14-3, 12-2 Canadian NM cable
- · (3) wire nuts for quick and reliable mains voltage connections
- Integral mounting facilitates 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 10% with select leading or trailing edge 120V phase cut dimmers

Installation

- · Can be installed in 3/8" to 5/8" thick ceilings
- Round ceiling cutout
- 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

Icon Key: △ Configurable Product

- 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 2019 JA8 High Efficacy Lighting
- ENERGY STAR® certified, reference "Certified Light Fixtures" database

Warranty

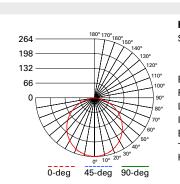
· Five year warranty standard.



HALO HLBSL4

Photometric Data





HLBSL4069FS351EMWR

Spacing criterion: (0-180) 1.26

(90-270) 1.26

(Diagonal) 1.38

Beam Angle: 112.7° Field Angle: 161.5° Lumens: 716 Input Watts: 10.1 W Efficacy: 70.89 LPW Test Report: HLBSL4069FS351EMWR.ies

Zonal Lumen	Lumens	% Lumens
0-30	194.0	27.1
0-40	318.6	44.5
0-60	564.9	78.9
0-90	716.0	100



COLOR METRIC SUMMARY

HLBSL4069FS231EMW

2/UUK	
TM-30-15	Rf = 93.0
	Rg = 98.0
CRI/CIE	Ra = 93.0
	R9 = 54.1

3000K	
TM-30-15	Rf = 90.0
1101-30-15	Rg = 96.0
CRI/CIE	Ra = 92.8
CHI/CIE	R9 = 61.6

3500K	
TM-30-15	Rf = 89.0
1101-30-15	Rg = 95.0
CRI/CIE	Ra = 92.5
	R9 = 61.5

HLBSL4069FS351EMW

3000K	
TM-30-15	Rf = 92.0
	Rg = 97.0
CRI/CIE	Ra = 93.3
	R9 = 57.5

4000K	
TM-30-15	Rf = 93.0
1101-30-15	Rg = 99.0
ODI (OIE	Ra = 96.3
CRI/CIE	R9 = 75.8

5000K	
TM-30-15	Rf = 93.0
1101-30-15	Rg = 100.0
ODI/OIE	Ra = 95.3
CRI/CIE	R9 = 77.4

HLBSL4069FS461EMW

4000K	
TM-30-15	Rf = 88.0
	Rg = 96.0
CRI/CIE	Ra = 93.9
	R9 = 75.6

DUUUK	
TM-30-15	Rf = 89.0
1101-30-15	Rg = 97.0
CRI/CIE	Ra = 93.7
CNI/CIE	R9 = 82.9

6000K	
TM-30-15	Rf = 89.0
	Rg = 96.0
CRI/CIE	Ra = 93.4
	R9 = 76.3

Energy and Performance Data

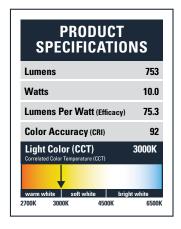
		Lumens	Power (W)	LPW
HLBSL4069FS231EMW	2700K	703	10	70.3
	3000K	753	10	75.3
	3500K	726	10	72.6
HLBSL4069FS351EMW	3000K	716	10.1	70.9
	4000K	778	10	77.8
	5000K	768	10.2	75.3
HLBSL4069FS461EMW	4000K	761	9.9	76.9
	5000K	793	9.9	80.1
	6000K	771	9.9	77.9

Note: Refer to IES files for more product data.

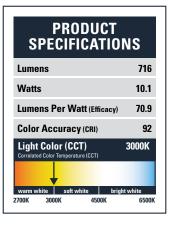


HALO HLBSL4

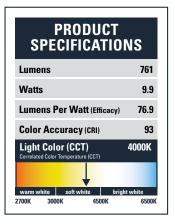
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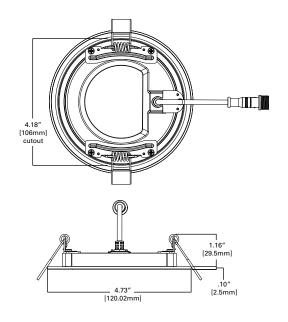
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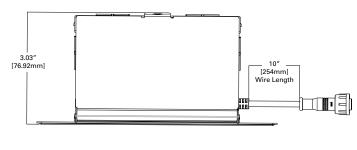
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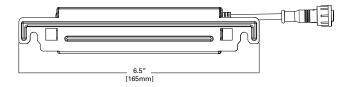


Dimensional Details









Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.cooperlighting.com

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