

Project		Catalog #		Type	
Prepared by		Notes		Date	



## HALO

### HLBPH 6" Slim Smooth-Lens Canless LED Downlight

Its 1/2"-thin design allows the HLBPH to be installed under obstructions that are hidden above the ceiling. Canless installation means the fixture mounts directly to the ceiling – no housing required. The 6-color selectability and flicker-free 5% dimming allow for easy lighting customization.

**Typical Applications** Residential

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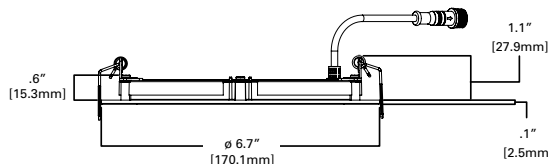
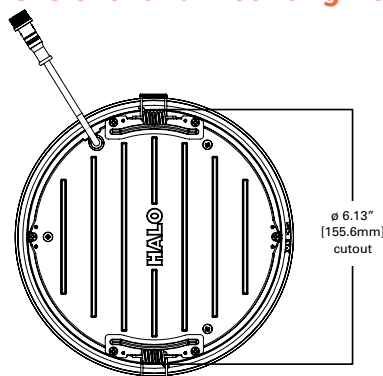
Refer to ENERGY STAR® Certified Products List.  
Can be used to comply with California Title 24 High Efficiency requirements.<sup>1)</sup>  
Certified to California Appliance Efficiency Database under JA8.<sup>1)</sup>



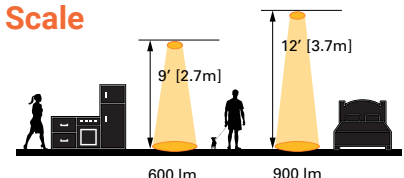
#### Top Product Features

- Round 6" slim canless downlight suitable for installation in IC (insulation contact) or non-IC applications
- Canless springs hold fixture to ceiling – no housing required
- **Lens & Trim:** Slim polymer dead front trim with smooth diffuse lens
- **Color Temperature (CCT):** 6-color field selectable CCT: 2700K, 3000K, 3500K, 4000K, 5000K, 6500K
- **Brightness (Lumens):** Delivers up to 995 lumens
- **Dimming:** Dims to 5% (phase cut LE/TE); 120V input
- AIR-TITE, wet location-listed, and ENERGY STAR®
- 50,000 hrs of maintenance-free operation in damp or wet locations
- 5-year warranty

#### Dimensional and Mounting Details



#### Scale



[additional product diagrams](#)

## Order Information

Catalog Number	Description	Lumens (nominal)	CRI/CCT	Driver/Dimming	Finish	Packaging
HLBPH609FS6	6-Inch Round Slim Smooth-Lens Canless LED Downlight with Dead-Front Polymer Trim and Remote Driver / Junction Box	900 lumens	90+ CRI, 6-Color Field-Selectable: 2700K, 3000K, 3500K, 4000K, 5000K, & 6500K	5% Phase Cut LE/TE Dimming, 120V 60Hz	Matte White	Plastic-free Recyclable

## Accessories (sold separately)

Accessories
<b>Decorative Overlays</b> <b>HLB6RTRMMW</b> = 6" Round Decorative Overlay, Paintable Matte White <b>HLB6RTRMMB</b> = 6" Round Decorative Overlay, Matte Black <b>HLB6RTRMSN</b> = 6" Round Decorative Overlay, Satin Nickel <b>HLB6RTRMTBZ</b> = 6" Round Decorative Overlay, Tuscan Bronze
<b>New Construction Mounting Frames<sup>2</sup></b> <b>MF6RC</b> = 6" Round New Construction Mounting Frame with ½" Drywall Collar <b>HL6RSMF</b> = 6" Round-to-Square New Construction Mounting Frame
<b>New Construction Smash Plate<sup>2</sup></b> <b>SP346RS</b> = 3" x 6" / 6" New Construction Smash Plate (6" & 6" openings convert round-to-square)
<b>Extension Cables</b> <b>HLB06FSEC</b> = 6 ft. Extension Cable <b>HLB12FSEC</b> = 12 ft. Extension Cable <b>HLB20FSEC</b> = 20 ft. Extension Cable

HLB6RTRMMW  
Paintable Matte WhiteHLB6RTRMMB  
Matte BlackHLB6RTRMSN  
Satin NickelHLB6RTRMTBZ  
Tuscan Bronze

MF6RC



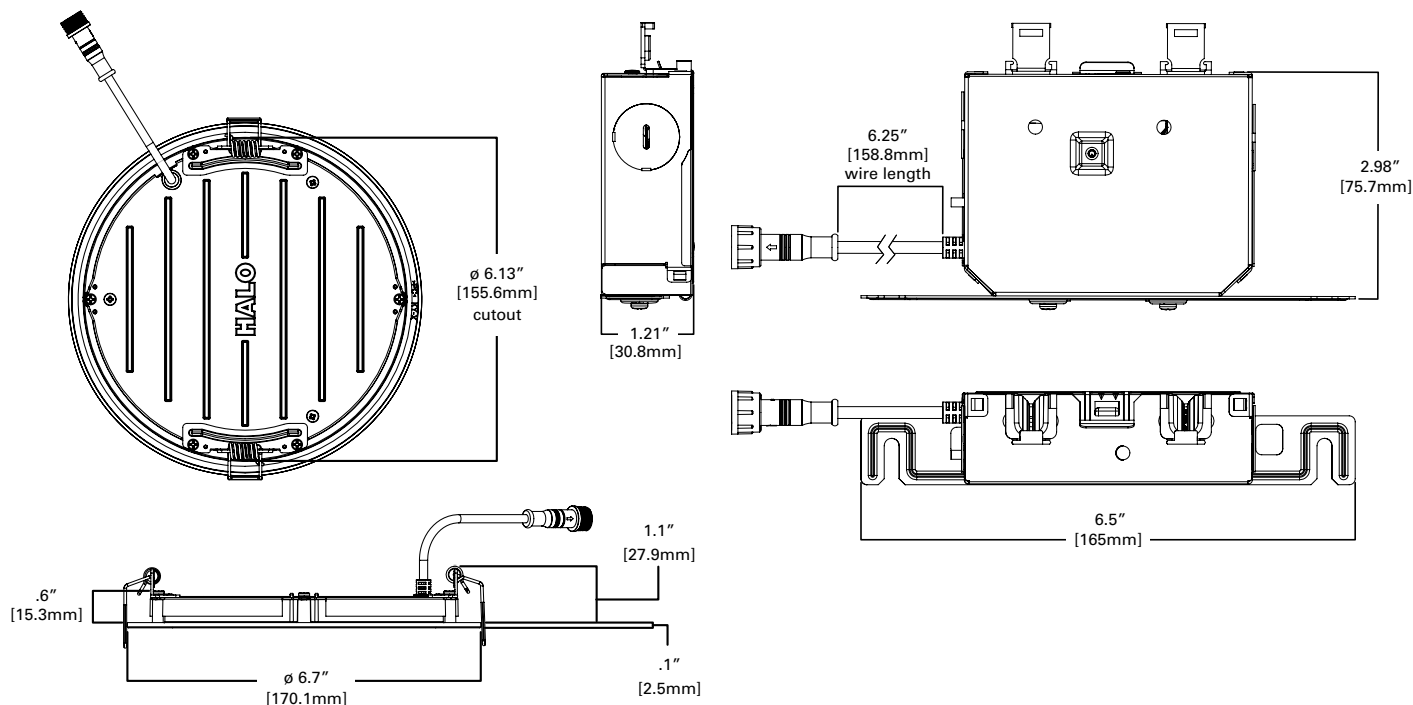
HL6RSMF



SP346RS

2. New Construction Mounting Frames / Smash Plates reserve ceiling positions and holds canless junction boxes during rough-in wiring phase.

## Dimensional Details



## Product Specifications

### Housing

- Plastic mounting frame with integral flange provides passive thermal cooling achieving L70 at 50,000 hours in IC and non-IC applications

### Optics

- Precision acrylic light guide organizes source flux into wide distribution with 1.28 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 (6 colors): 2700K, 3000K, 3500K, 4000K, 5000K, & 6500K
- Color accuracy of 4 step at the 2700K, 7 step for others
- 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) 1/2" conduit pry-outs
- (2) Slide-N-Side™ non-metallic (NM) wire traps accept 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 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 5% with select leading or trailing edge 120V phase cut dimmers

### Installation

- Can be installed in 3/8" to 1-1/4" thick ceilings
- Round ceiling cutout
- Heat treated springs hold fixture fitting securely in the ceiling eliminating light leaks
- 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

### Compliance

- UL Certified US and Canada 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<sup>1</sup>
- 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 2022 JA8 High Efficacy Lighting<sup>1</sup>
- ENERGY STAR® certified, reference "Certified Light Fixtures" database

### Warranty

- Five year limited warranty, consult website for details. [www.cooperlighting.com/warranty](http://www.cooperlighting.com/warranty)

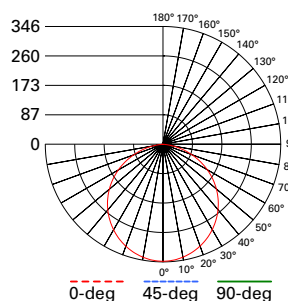
<sup>1</sup> T24 and RoHS are self-tested by Cooper Lighting Solutions. Not a third party certification.

## Energy Data

HLBPH609FS6	
Lumens	980
Input Voltage (V)	120V
Input Current (A)	100mA
Input Power (W)	9.9W
Efficiency	78%
Inrush (A)	2.51A @ 44usec
THDi (%)	<20%
PF	>0.9
T Ambient	-30 to +40 °C
Sound Rating	<22dBA @1feet
Efficacy(LPW)	99 LPW

HLBPH609FS6				
CCT	Watts	Lumens	LPW	CRI
2700K	9.9	955	96.5	90
3000K	9.9	980	99	92
3500K	9.9	985	99.5	93
4000K	9.9	990	100	94
5000K	9.9	995	100.5	94
6500K	9.8	980	100	92

## Photometric Data



### HLBPH609FS6-930

Spacing criterion: (0-180) 1.26  
(90-270) 1.26  
(Diagonal) 1.38

Beam Angle: 113°

Field Angle: 161°

Lumens: 980

Input Watts: 9.9 W

Efficacy: 99 LPW

UGR: 27.3

Test Report: HLBPH609FS6-930.ies

Zonal Lumen	Lumens	% Lumens
0-30	267.9	27.3
0-40	439.2	44.8
0-60	778.6	79.4
0-90	979.7	99.9

TM-30-15	Rf = 91
	Rg = 103
CRI/CIE	Ra = 92
	R9 = 71

CCT - Range of 2700K- 6500K

