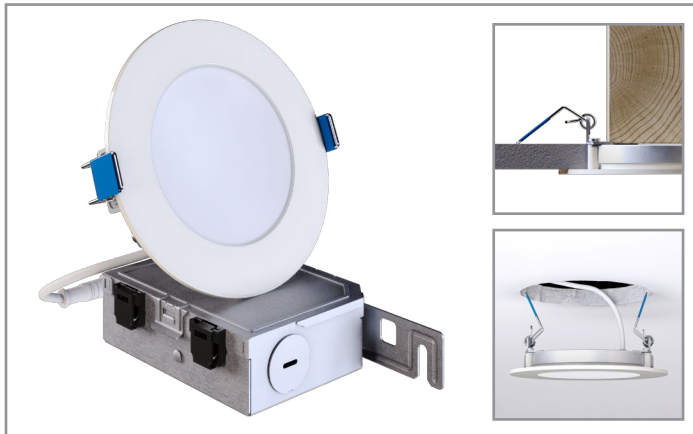


Project		Catalog #		Type	
Prepared by		Notes		Date	



HALO

HLBPH 4" 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

Interactive Menu

- Order Information page 2
- Product Specifications page 3
- Energy Data page 3
- Photometric Data page 4
- Product Warranty
- Dimming Guide



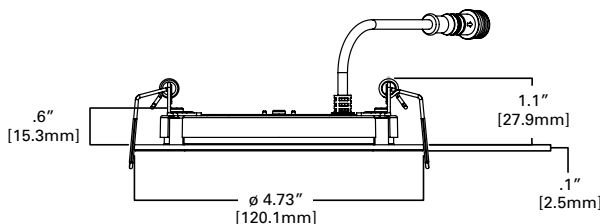
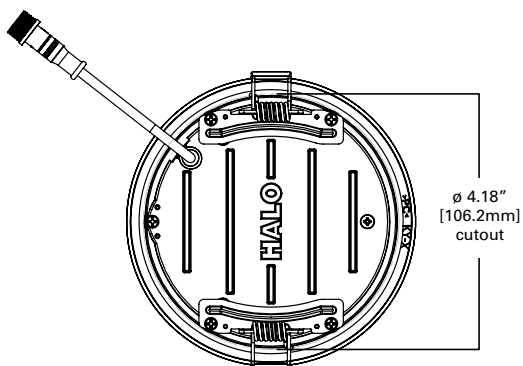
Refer to ENERGY STAR® Certified Products List.
Can be used to comply with California Title 24 High Efficiency requirements.⁽¹⁾
Certified to California Appliance Efficiency Database under JAB.⁽¹⁾



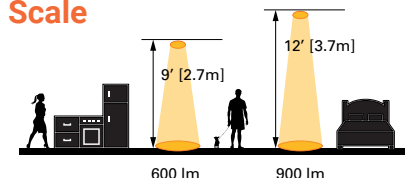
Top Product Features

- Round 4" 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 795 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
HLBPH406FS6	4-Inch Round Slim Smooth-Lens Canless LED Downlight with Dead-Front Polymer Trim and Remote Driver / Junction Box	600 lumens	90+ CRI, 6-Color Field-Selectable CCT: 2700K, 3000K, 3500K, 4000K, 5000K, & 6500K	5% Phase Cut LE/TE Dimming, 120V 60Hz	Matte White	Plastic-free Recyclable

Accessories (sold separately)

Accessories
Decorative Overlays HLB4RTRMMW = 4" Round Decorative Overlay, Paintable Matte White HLB4RTRMMB = 4" Round Decorative Overlay, Matte Black HLB4RTRMSN = 4" Round Decorative Overlay, Satin Nickel HLB4RTRMTBZ = 4" Round Decorative Overlay, Tuscan Bronze
New Construction Mounting Frames² MF4RC = 4" Round New Construction Mounting Frame with ½" Drywall Collar HL4RSMF = 4" Round-to-Square New Construction Mounting Frame
New Construction Smash Plate² SP346RS = 3" 4" / 6" New Construction Smash Plate (4" & 6" openings convert round-to-square)
Extension Cables HLB06FSEC = 6 ft. Extension Cable HLB12FSEC = 12 ft. Extension Cable HLB20FSEC = 20 ft. Extension Cable



HLB4RTRMMW
Paintable Matte White



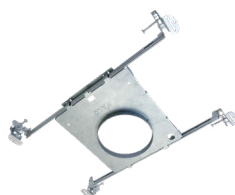
HLB4RTRMMB
Matte Black



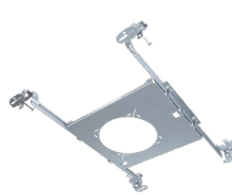
HLB4RTRMSN
Satin Nickel



HLB4RTRMTBZ
Tuscan Bronze



MF4RC



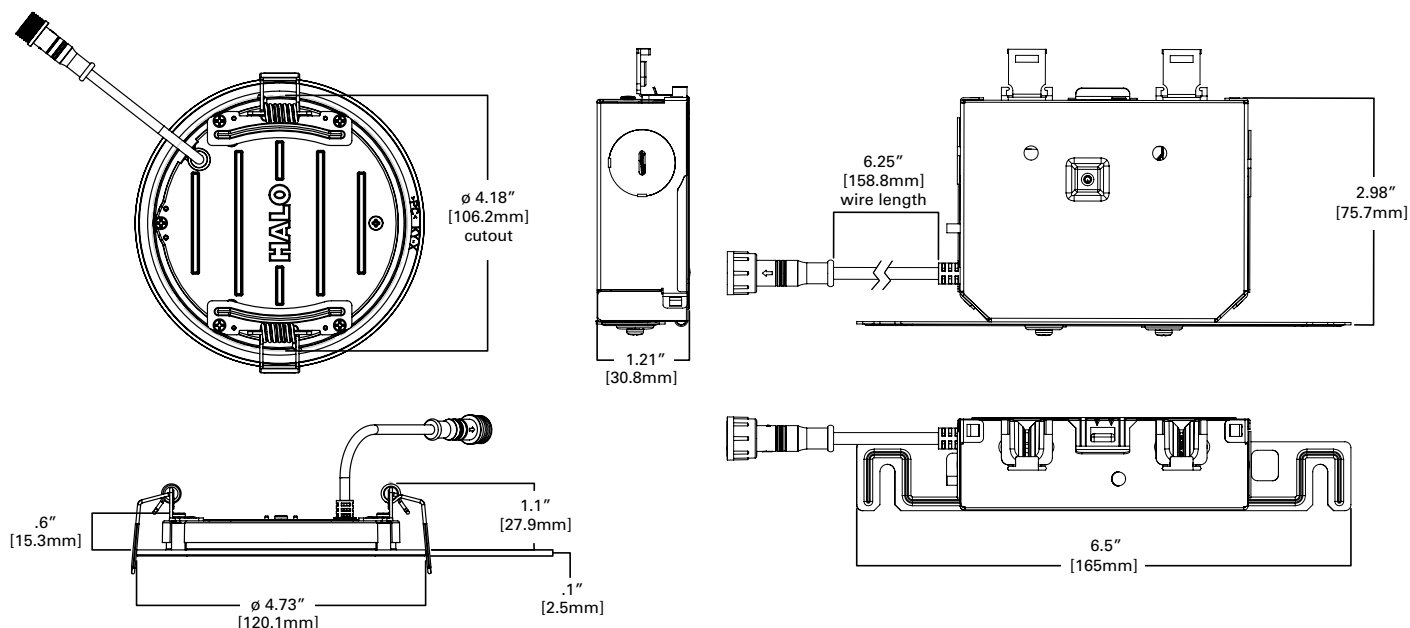
HL4RSMF



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 1.26 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 (6 colors):
 - 2700K, 3000K, 3500K, 4000K, 5000K, & 6500K
 - Color accuracy of 4 step at 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 compliant¹
- 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 Lighting¹
- ENERGY STAR® certified, reference "Certified Light Fixtures" database

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/warranty

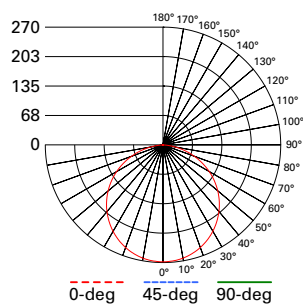
¹. T24 and RoHS are self-tested by Cooper Lighting Solutions. Not a third party certification.

Energy Data

HLBPH406FS6	
Lumens	790
Input Voltage (V)	120V
Input Current (A)	90mA
Input Power (W)	8.6W
Efficiency	77%
Inrush (A)	2.13A @ 44usec
THDi (%)	<20%
PF	>0.9
T Ambient	-30 to +40 °C
Sound Rating	<22dBA @1feet
Efficacy(LPW)	91.9 LPW

HLBPH406FS6				
CCT	Watts	Lumens	LPW	CRI
2700K	8.5	780	91.8	91
3000K	8.6	790	91.9	92
3500K	8.6	795	92.4	94
4000K	8.5	795	93.5	95
5000K	8.5	795	93.5	94
6500K	8.5	785	92.4	93

Photometric Data



HLBPH406FS6-930

Spacing criterion: (0-180) 1.28
(90-270) 1.28
(Diagonal) 1.40

Beam Angle: 115°
Field Angle: 163°
Lumens: 790
Input Watts: 8.6 W
Efficacy: 91.9 LPW
UGR: 30.6
Test Report: HLBPH406FS6-930.ies

Zonal Lumen	Lumens	% Lumens
0-30	210.8	26.7
0-40	346.4	43.8
0-60	618.3	78.2
0-90	789.6	99.9

TM-30-15	Rf = 91
	Rg = 103
CRI/CIE	Ra = 92
	R9 = 75

CCT - Range of 2700K- 6500K

