

Project		Catalog #		Type	
Prepared by		Notes		Date	



HALO

HLB4 4" 0-10V Slim Canless LED Downlight

Its 1/2"-thin design allows the HLB 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 5-color selectability and flicker-free 5% 0-10V 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 Efficacy requirements.¹
Certified to California Appliance Efficiency Database under JAB.



Top Product Features

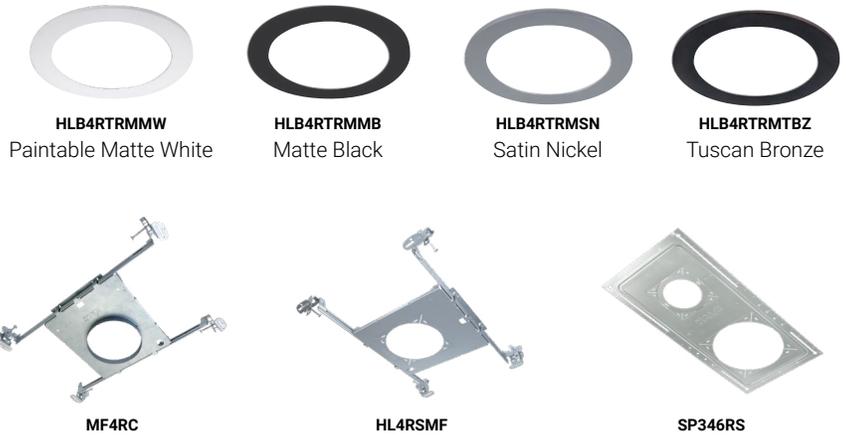
- Round 4" slim canless downlight suitable for installation in IC (insulation contact) or non-IC applications
- Canless springs hold fixture to ceiling – no housing required
- **Lens & Trim:** Slim die-cast aluminum trim with prismatic lens
- **Color Temperature (CCT):** 5-color Field-SeleCCTable (2700K, 3000K, 3500K, 4000K, 5000K); 90+ CRI
- **Brightness (Lumens):** delivers up to 750 lumens
- **Dimming:** Dims to 5% (0-10V) with compatible dimmers; 120-277V input
- AIR-TITE, wet location-listed, and ENERGY STAR®
- 50,000 hrs of maintenance-free operation in damp or wet locations
- 5-year warranty

Order Information

Catalog Number	Module	Lumens (nominal)	CRI/CCT	Driver	Finish	Packaging
HLB4069FSE010MWR	4-inch Round Slim Canless LED Downlight	600 lumens	90+ CRI, 5-color Field-SeleCCTable™ CCT: 2700/3000/3500/4000/5000K	5% 0-10V Dimming, 120V-277V 60Hz	Matte White	Recyclable 4-color plastic-free packaging

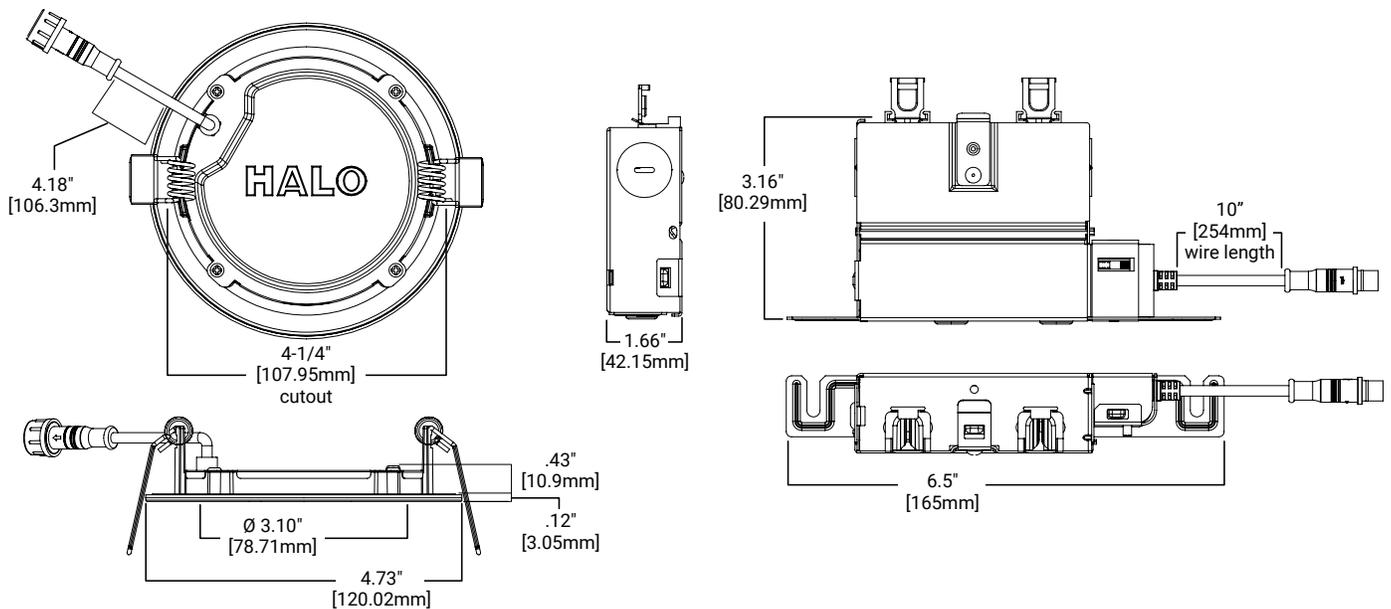
Accessories (sold separately)

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



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

Dimensional and Mounting Details



Product Specifications

Housing

- Die-cast aluminum mounting frame with integral flange provides passive thermal cooling
- Achieves L70 at 50,000 hours in IC and non-IC applications
- 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
- 90 color rendering index (CRI) minimum; R9 greater than 50 provides high color rendering
- Optional field selectable color temperature, select 2700K, 3000K, 3500K, 4000K or 5000K CCT; color accuracy within 4 SDCM
- 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 junction box 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

Driver

- Available in 120-277V, providing noise free operation
- Continuous 0-10V dimming dimming down to 5% with select dimmers
- 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
- 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

Optical 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

- 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 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 luminaire compliance. Complies with Title 24 JA8-2022-E. ¹
- Can be used International Energy Conservation Code (IECC) high efficiency luminaire compliance.
- ENERGY STAR® certified (reference "Certified Light Fixtures" database)

Warranty

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

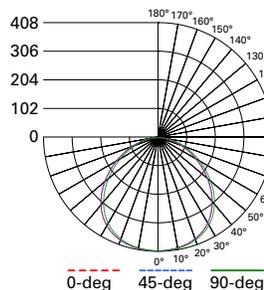
¹ T24 and RoHS are self-tested by Cooper Lighting Solutions. Not a third party certification.

Energy Data

Lumens (nom)	650LM	650LM
Input Voltage (VAC)	120V	277V
Input Current (A)	0.07	0.032A
Input Power (W)	8W	8W
Driver Efficiency (%)	>80%	>80%
Inrush (A)	<4A	<4A
THDi%	<20%	<20%
PF	>0.9	>0.9
T Ambient	-30~40°C	-30~40°C
Sound Rating	<22db	<22db
Efficacy (LPW)	≥82LPW	≥82LPW

HLB4069FSE010MWR (Equivalent to 60W Incandescent)				
CCT	Watts	Lumens	LPW	CRI
2700K	8.2	710	86.9	93
3000K	7.7	720	93.5	93
3500K	8.1	725	89.3	93
4000K	8.2	740	90.7	93
5000K	8.1	750	92.7	93

Photometric Data

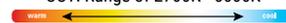


HLB4069FS1EMW-3000K

Spacing criterion:
(0-180) 1.31 | (90-270) 1.31 |
(Diagonal) 1.39
Beam Angle: 110°
Field Angle: 160°
Lumens: 723
Input Watts: 12 W
Efficacy: 60.3 LPW
Test Report: P256766

Zonal Lumen	Lumens	% Lumens
0-30	203	28.1
0-40	335	46.3
0-60	581	80.4
0-90	723	100

CCT: Range of 2700K - 5000K



TM-30-15	Rf = 90.9
	Rg = 100.7
CRI/CIE	Ra = 94.1
	R9 = 68.5

