

Project		Catalog #		Type	
Prepared by		Notes		Date	



HALO

HLB6 6" 0-10V Slim Canless LED Downlight

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Typical Applications Residential

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- Product Specifications [page 3](#)
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- Photometric Data [page 3](#)
- Product Warranty
- Dimming Guide



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 JAR.



Top Product Features

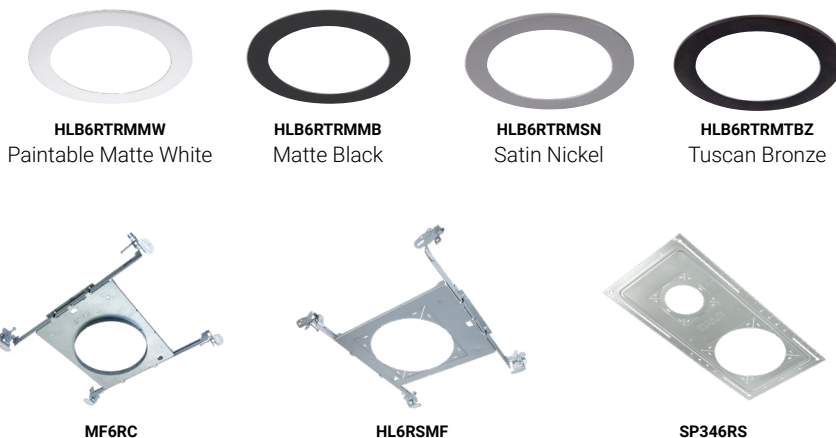
- Round 6" slim canless downlight suitable for installation in IC (insulation contact) or non-IC applications
- Canless springs hold fixture to ceiling – no housing required
- **Lens & Trim:** Slim die-cast aluminum trim with prismatic lens
- **Color Temperature (CCT):** 5-color Field-SeleCCTable (2700K, 3000K, 3500K, 4000K, 5000K); 90+ CRI
- **Brightness (Lumens):** delivers up to 1150 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
HLB6099FSE010MWR	6-inch Round Slim Canless LED Downlight	900 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

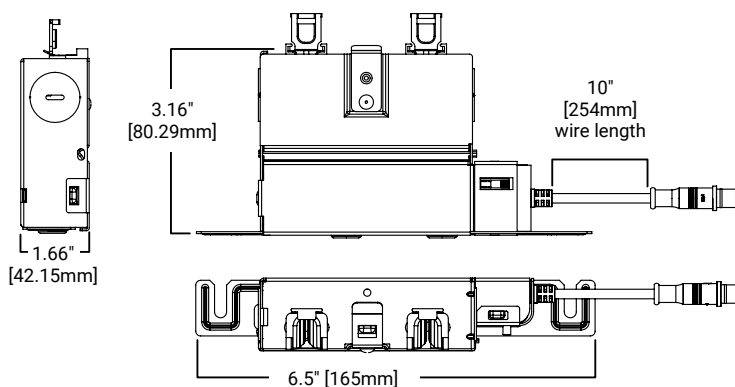
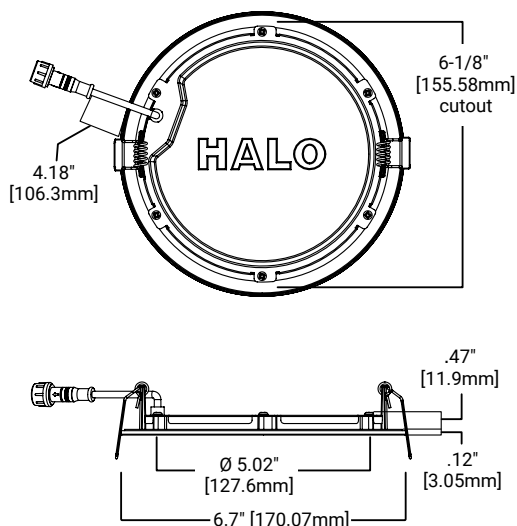
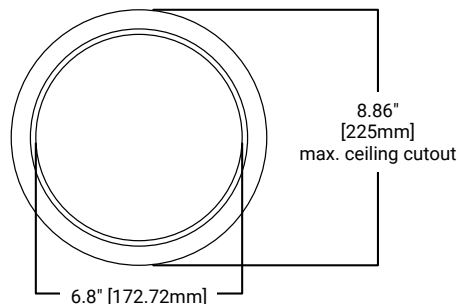
Accessories (sold separately)

Accessories
Decorative Overlays HLB6RTRMMW = 6" Round Decorative Overlay, Paintable Matte White HLB6RTRMMB = 6" Round Decorative Overlay, Matte Black HLB6RTRMSN = 6" Round Decorative Overlay, Satin Nickel HLB6RTRMTBZ = 6" Round Decorative Overlay, Tuscan Bronze
New Construction Mounting Frames² MF6RC = 6" Round New Construction Mounting Frame with ½" Drywall Collar HL6RSMF = 6" Round-to-Square New Construction Mounting Frame
New Construction Smash Plate² SP346RS = 3"/6"/6" New Construction Smash Plate (6" & 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

HLB6ROTMTW
Oversized trim

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 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

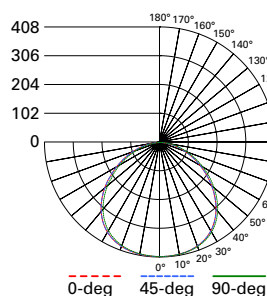
¹. T24 and RoHS are self-tested by Cooper Lighting Solutions. Not a third party certification.

Energy Data

Lumens (nom)	900LM	900LM
Input Voltage (VAC)	120V	277V
Input Current (A)	0.092	0.042
Input Power (W)	11W	11W
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

HLB6099FSE010MWR (Equivalent to 75W Incandescent)				
CCT	Watts	Lumens	LPW	CRI
2700K	10.8	925	85.4	93
3000K	10.7	935	87.4	93
3500K	10.9	935	85.9	93
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5000K	10.9	955	87.9	93

Photometric Data

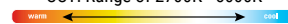


HLB6099FS1EMW-3000K

Spacing criterion:
(0-180) 1.33 | (90-270) 1.33 |
(Diagonal) 1.41
Beam Angle: 110°
Field Angle: 160°
Lumens: 1061
Input Watts: 16 W
Efficacy: 66.3 LPW
Test Report: P256761

Zonal Lumen	Lumens	% Lumens
0-30	294	27.7
0-40	486	45.8
0-60	851	80.2
0-90	1061	100

CCT: Range of 2700K - 5000K



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



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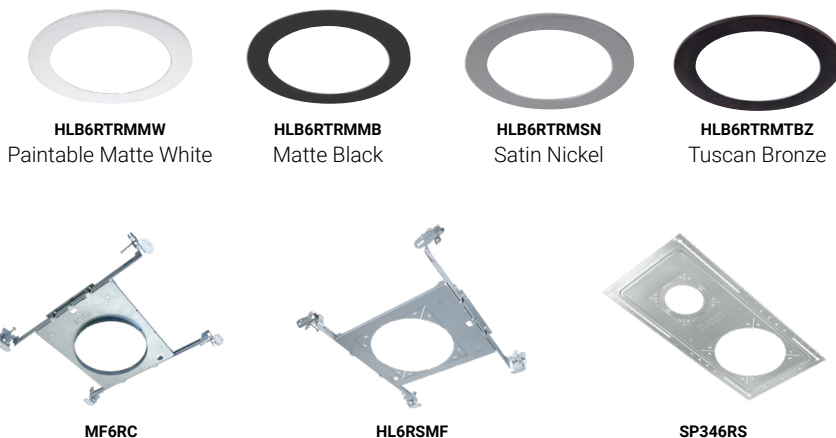
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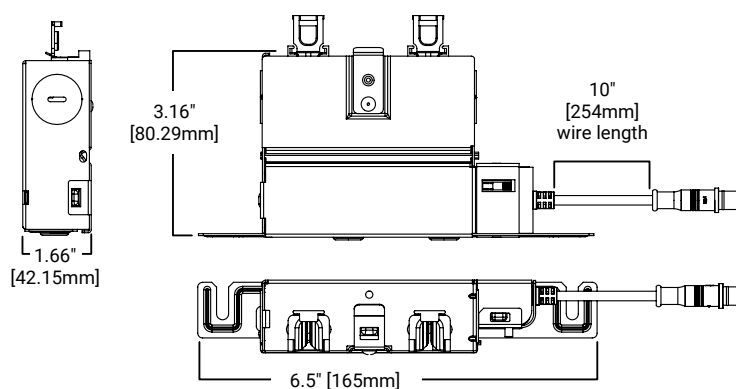
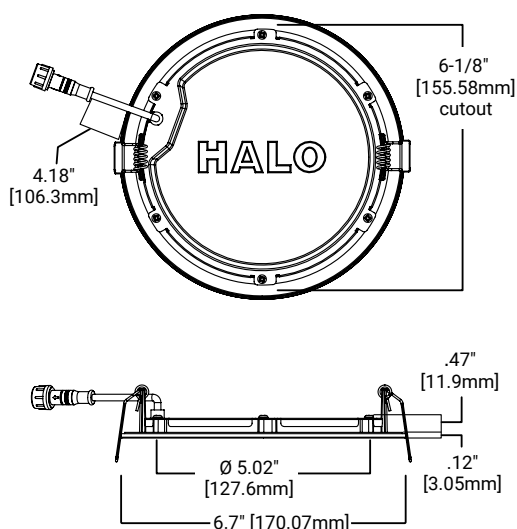
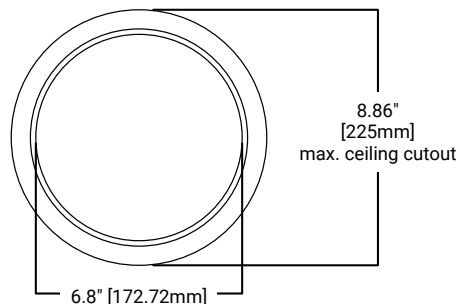
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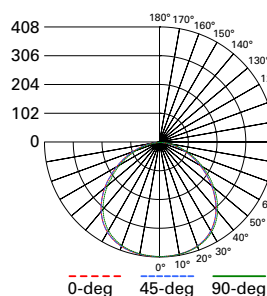
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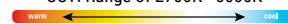


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