

| | | | | | |
|-------------|--|-----------|--|------|--|
| Project | | Catalog # | | Type | |
| Prepared by | | Notes | | Date | |



HALO

HLB6 6" 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

Interactive Menu

- Order Information page 2
- Product Specifications page 3
- Energy Data page 3
- 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

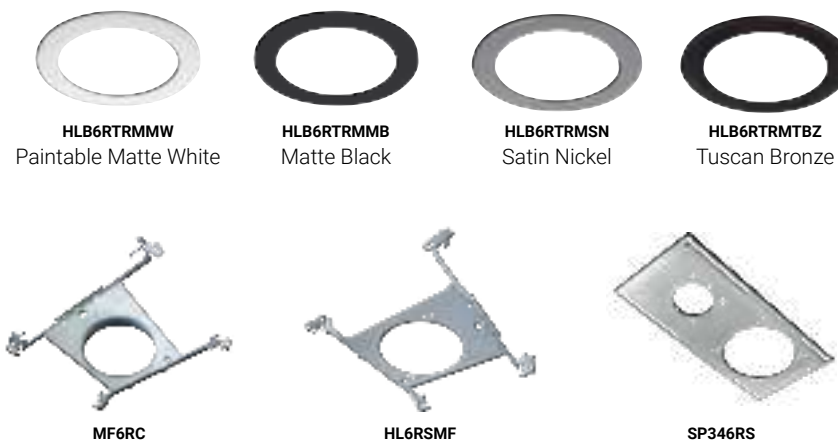
1. T24 and RoHS are self-tested by Cooper Lighting Solutions. Not a third party certification.

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-Selectable CCT: 2700/3000/3500/4000/5000K | 5% 0-10V Dimming, 120V-277V 60Hz | Matte White | Recyclable 4-color plastic-free packaging |

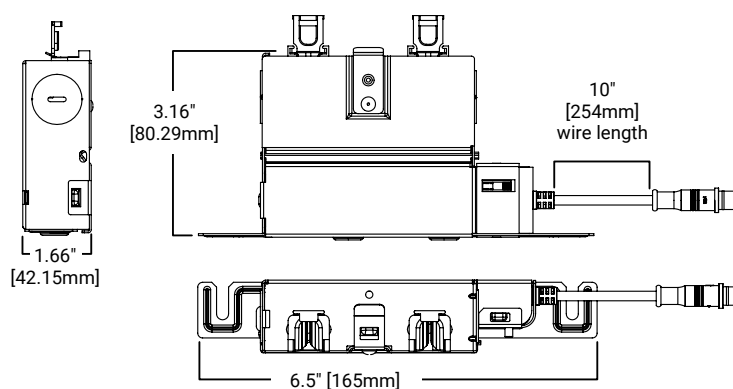
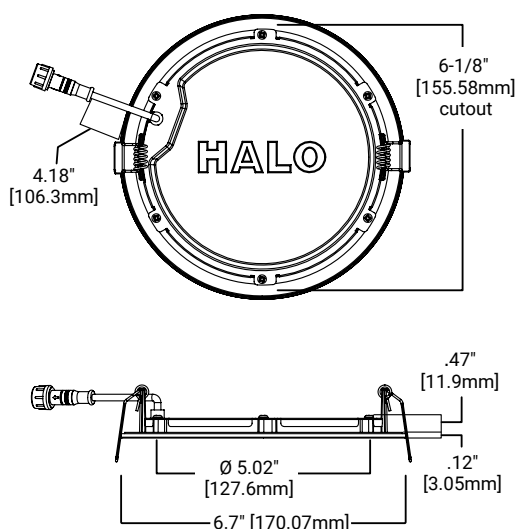
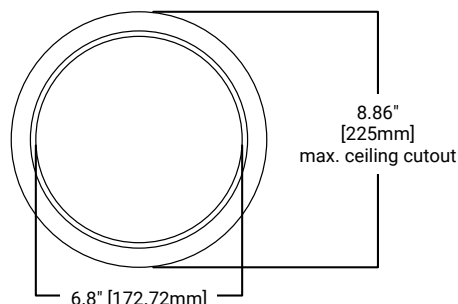
Accessories (sold separately)

| 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

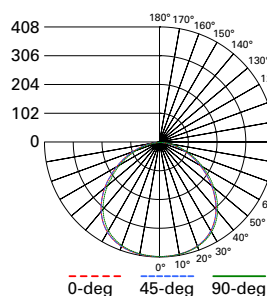
¹. T24 and RoHS are self-tested by Cooper Lighting Solutions. Not a third party certification.

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 |
| 4000K | 10.9 | 940 | 86.6 | 93 |
| 5000K | 10.9 | 955 | 87.9 | 93 |

Photometric Data

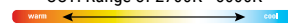


HLB6099FS1EMW-3000K

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 |

