

Project		Catalog #		Type	
Prepared by		Notes		Date	



# HALO

## RL 4" Recessed Baffle Canless Downlight

4" Baffle Recessed Canless LED Downlight mounts directly to the ceiling – no housing required. The selectable lumens, 6-position 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 Efficacy requirements.<sup>1</sup>  
Certified to California Appliance Efficiency Database under JA8.



### Top Product Features

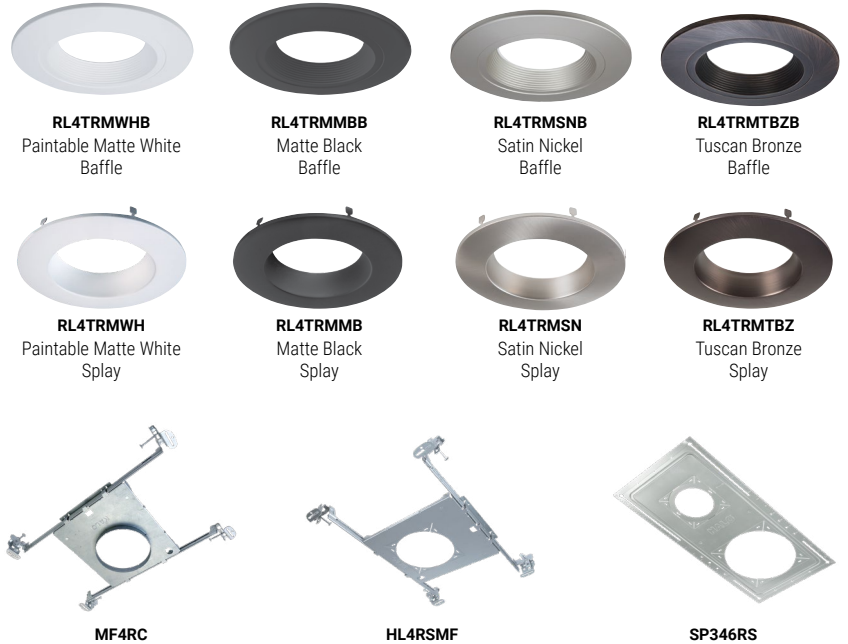
- Round 4" canless downlight suitable for installation in IC (insulation contact) or non-IC applications
- Canless springs hold fixture to ceiling – no housing required
- **Lens & Trim:** Recessed baffle trim and curved diffuse lens
- **6-Position Switch:** 5-color Field-SeleCCTable (2700K, 3000K, 3500K, 4000K, 5000K) + Dim-to-warm (3000K dims to 1800K); 90+ CRI
- **Brightness (Lumens):** Lumen Select Switch - 695/955 lumens
- **Dimming:** Dims to 5% (phase cut LE/TE) with compatible dimmers; 120V input
- Decorative Overlays (sold separately)
- 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	CRI/CCT	Driver	Finish	Packaging
RL4LS9FSD2W1EWHDM	4-inch Round Canless LED Downlight	695/955 Selectable Lumens	90+ CRI, 6-Color Field-SeleCCTable: 2700K, 3000K, 3500K, 4000K, 5000K, Dim-to-Warm	5% Phase Cut LE/TE Dimming, 120V 60Hz	Matte White	Recyclable 4-color plastic-free packaging

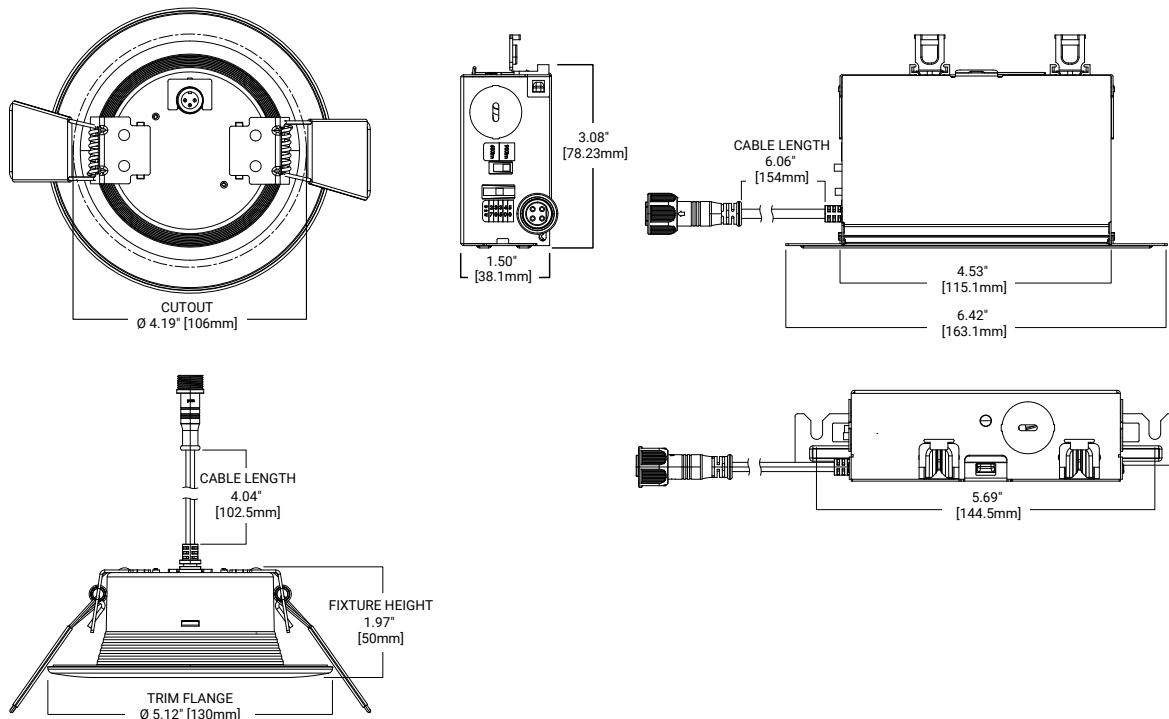
## Accessories (sold separately)

Accessories
<p><b>Decorative Overlays</b></p> <p>RL4TRMWHB = 4" Round Decorative Overlay, Matte White, Baffle</p> <p>RL4TRMMBB = 4" Round Decorative Overlay, Matte Black, Baffle</p> <p>RL4TRMSNB = 4" Round Decorative Overlay, Satin Nickel, Baffle</p> <p>RL4TRMTBZB = 4" Round Decorative Overlay, Tuscan Bronze, Baffle</p> <p>RL4TRMWH = 4" Round Decorative Overlay, Matte White, Splay</p> <p>RL4TRMMB = 4" Round Decorative Overlay, Matte Black, Splay</p> <p>RL4TRMSN = 4" Round Decorative Overlay, Satin Nickel, Splay</p> <p>RL4TRMTBZ = 4" Round Decorative Overlay, Tuscan Bronze, Splay</p>
<p><b>New Construction Mounting Frames<sup>2</sup></b></p> <p>MF4RC = 4" Round New Construction Mounting Frame with ½" Drywall Collar</p> <p>HL4RSMF = 4" Round-to-Square New Construction Mounting Frame</p>
<p><b>New Construction Smash Plate<sup>2</sup></b></p> <p>SP346RS = 3 7/8" x 6" New Construction Smash Plate (4" &amp; 6" openings convert round-to-square)</p>
<p><b>Extension Cables</b></p> <p>HLB06FSEC = 6 ft. Extension Cable</p> <p>HLB12FSEC = 12 ft. Extension Cable</p> <p>HLB20FSEC = 20 ft. Extension Cable</p>



<sup>2</sup> 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

### Selectable System

- Use the CCT select switch to choose between D2W, 2700K, 3000K, 3500K, 4000K, and 5000K CCT
- D2W option starts at 3000K and warms to 1800K as fixture dims
- Use the lumen select switch on lumen selectable fixtures to choose brightness level

### Module – Trim

- Module construction includes LED array, heat sink, reflector, lens, baffle and trim ring
- Regressed baffle
- Heat sink designed to conduct heat away from the LED Array

### LED Array

- Mid power LED array provides a uniform source with high efficiency and no pixilation
- 90 CRI minimum, R9 greater than 50
- Color accuracy at 4 SDCM in between endpoints, provide color accuracy and uniformity.
- Color Temperature (CCT) is set to a factory default of 3000K

### Optical Assembly

- Regressed lens
- Impact-resistant polycarbonate
- Convex form and lamp-like appearance
- Diffuse for even illumination

### Gaskets

- Closed cell gaskets achieve restrictive airflow requirements without additional caulking

### Driver

- Integral 120V 60 Hz constant current driver provides noise free operation
- Continuous, flicker-free dimming from 100% to 5%
- See Dimming Guide for compatible dimmers

### Remote Driver/ Junction Box

- Aluminum 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) ½" conduit pry-outs
- (2) Slide-N-Side™ non-metallic (NM) wire traps all
- Accepts 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 with clear caps for quick and reliable mains voltage connections
- Integral keyhole mounting slots facilitate direct mounting to building structure or new construction mounting frame

### Mounting / Retention

- The RL Canless Series requires no housing or third-party junction box
- The remote enclosure may be used in direct contact with insulation. Installer must cut template out of drywall and install into aperture with the clips compressed.
- When released, the spring clips will rest on to the back side of the drywall
- Not for installation in recessed cans

Hole Saw Sizing	Min to Max
4"	3-3/4" to 4-1/4"

### Compliance

- UL Certified US and Canada Type IC suitable for direct contact with air permeable insulation
- Wet and Damp location listed. Not recommended for use in direct contact with spray foam insulation, reference NEMA LSD57-2013
- Airtight certified per ASTM-E283
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
- Suitable for use in plenum spaces per NEC 300.22(C)(2) 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 luminaire compliance. Complies with Title 24 JA8-2022-E.<sup>1</sup>
- Can be used International Energy Conservation Code (IECC) high efficiency luminaire compliance.
- ENERGY STAR® listed, reference database for current listings
- IP44 Ingress Protection rated

### Warranty

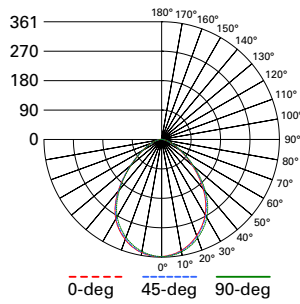
- Five year limited warranty, consult website for details. [www.cooperlighting.com/warranty](http://www.cooperlighting.com/warranty)

## Energy Data

### RL4 - Selectable Lumens

Lumens	695/955
Input Voltage	120V
Input current	90mA
Input Power	10.5W
Efficiency	78.99%
Inrush(A)	1.22
THD	16
PF	0.971
Sound Rating	<=22dba

## Photometric Data



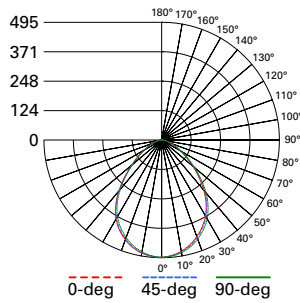
### RL4LS9FSD2W1EWHDM -600LM -3000K

Spacing criterion:  
 (0-180) 1.15 | (90-270) 1.15 | (Diagonal) 1.2  
 Beam Angle: 86°  
 Field Angle: 137°  
 Lumens: 695  
 Input Watts: 7.6 W  
 Efficacy: 91.4 LPW  
 UGR: 19  
 Test Report: P639480

Zonal Lumen	Lumens	% Lumens
0-30	267	38.4
0-40	418	60.1
0-60	625	89.9
0-90	695	100

TM-30-15	Rf = 92
	Rg = 103
CRI/CIE	Ra = 96.3
	R9 = 85

CCT: Range of 2700K - 5000K  
  
 Dim-to-Warm: Range of 1800K - 3000K



### RL4LS9FSD2W1EWHDM -900LM -3000K

Spacing criterion:  
 (0-180) 1.15 | (90-270) 1.15 | (Diagonal) 1.2  
 Beam Angle: 86°  
 Field Angle: 137°  
 Lumens: 955  
 Input Watts: 11.5 W  
 Efficacy: 83 LPW  
 UGR: 20  
 Test Report: P639485

Zonal Lumen	Lumens	% Lumens
0-30	367	38.4
0-40	574	60.1
0-60	858	89.9
0-90	955	100

TM-30-15	Rf = 92
	Rg = 103
CRI/CIE	Ra = 96.3
	R9 = 85

CCT: Range of 2700K - 5000K  
  
 Dim-to-Warm: Range of 1800K - 3000K

