Project	Catalog #	Туре	
Prepared by	Notes	Date	



HALO

RL Direct Mount Series

Canless recessed LED downlight

Typical Applications

Residential

Interactive Menu

- Order Information page 2
- Product Specifications page 4
- Energy Data page 4
- Photometric Data page 5
- Product Warranty
- · Dimming Guide

Product Certification











Refer to ENERGY STAR* Certified Products List.
Can be used to comply with California Title 24 High Efficacy requirements.
Certified to California Appliance Efficiency Database under JA8.

Product Features







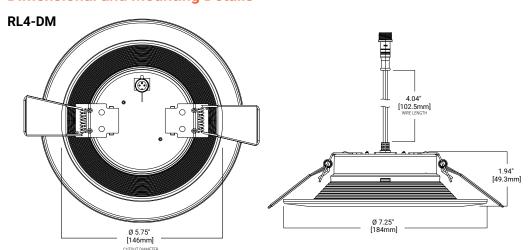




Top Product Features

- · Available in 4" and 6" aperture
- 6 selectable color temperature options
 - 2700K, 3000K, 3500K, 4000K, 5000K
 - Dim-to-warm technology included: use your dimmer to warm color temperature from 3000K to 1800K
- · Canless installation, no housing or j-box required
- · Dimmable down to 5%

Dimensional and Mounting Details







Order Information

SAMPLE ORDER NUMBER: RL6069FSD2W1EWHDM

4-inch	Lumens	CRI / CCT	Driver	Finish	Installation
4-inch	Lumens	CRI / CCT	Driver	Finish	Installation
RL4 = 4-inch canless recessed LED downlight	LS = 600/900 selectable lumens (nominal)	9FSD2W = 90 CRI, selectable CCT with D2W option	1E = 120V 60Hz, LE & TE phase cut 5% dimming	WH = matte white flange	DM = direct mount canless installation
Notes	Notes	Notes	Notes	Notes	Notes

4-inch Accessories

L4TRMWHB = 4-inch overlay, Matte White, Baffle	HL4RSMF = 4-inch round and square mounting frame			
L4TRMWBB = 4-inch overlay, Matte Black, Baffle	MF4RC = 4-inch round mounting frame with drywall collar			
L4TRMSNB = 4-inch overlay, Satin Nickel, Baffle				
L4TRMTBZB = 4-inch overlay, Tuscan Bronze, Baffle	HLB06BLEEC = 6 ft. extension cable			
L4TRMWH = 4-inch overlay, Matte White, Splay	HLB12BLEEC = 12 ft. extension cable			
L4TRMMB = 4-inch overlay, Matte Black, Splay	HLB20BLEEC = 20 ft. extension cable			
L4TRMSN = 4-inch overlay, Satin Nickel, Splay				
L4TRMTBZ = 4-inch overlay, Tuscan Bronze, Splay				
Notes				

6-inch	Lumens	CRI / CCT	Driver	Finish	Installation
6-inch	Lumens	CRI / CCT	Driver	Finish	Installation
RL6 = 6-inch canless recessed LED downlight	06 = 600 selectable lumens (nominal) LS = 900/1200 selectable lumens (nominal)	9FSD2W = 90 CRI, selectable CCT with D2W option	1E = 120V 60Hz, LE & TE phase cut 5% dimming	WH = matte white flange	DM = direct mount canless installation
Notes	Notes	Notes	Notes	Notes	Notes
					ļ

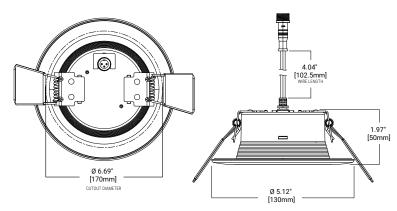
6-inch Accessories

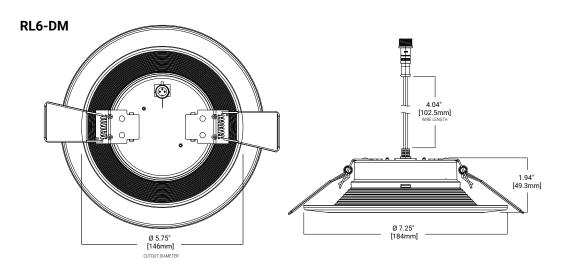
6-inch Accessories
HL6RSMF = 6-inch round and square mounting frame MF6RC = 6-inch round mounting frame with drywall collar
HLB06BLEEC = 6 ft. extension cable HLB12BLEEC = 12 ft. extension cable HLB20BLEEC = 20 ft. extension cable
Notes

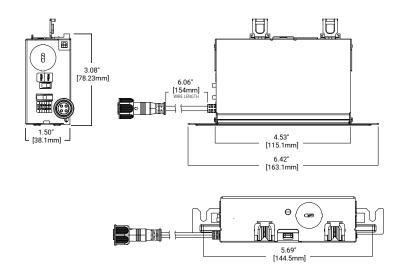


Dimensional and Mounting Details

RL4-DM









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 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

· 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 iunction 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 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 Direct Mount 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

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
- Contains no mercury or lead and RoHS compliant
- Photometric testing in accordance with IES
- 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
- 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

Energy Data

RL4 - 600/900 Lumen

Lumens	600/900	
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	

RL56 - 600 Lumen

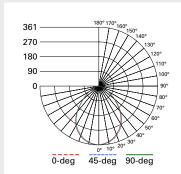
600	
120V	
63mA	
7.2W	
77.69%	
1.66	
18.7	
0.956	
<=22dba	

RL56 - 900/1200 Lumen

Lumens	900/1200
Input Voltage	120V
Input current	110mA
Input Power	13W
Efficiency	80.50%
Inrush(A)	1.31
THD	13.8
PF	0.997
Sound Rating	<=22dba



Photometric Data



RL4LS9FSD2W1EWHDM -600LM -3000K

Spacing criterion:

(0-180) 1.15 | (90-270) 1.15 | (Diagonal) 1.2

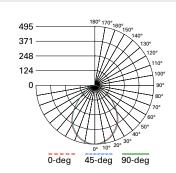
Beam Angle: 86° Field Angle: 137° Lumens: 695 Input Watts: 7.6 W Efficacy: 91.4 LPW

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		





RL4LS9FSD2W1EWHDM -900LM -3000K

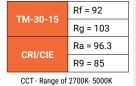
Spacing criterion:

(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

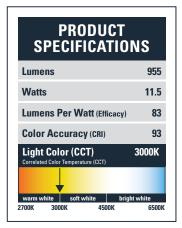
Zonal Lumen	Lumens	% Lumens
0-30	367	38.4
0-40	574	60.1
0-60	858	89.9
0-90	955	100



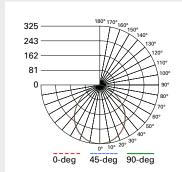


Product Specifications

RL4LS9FSD2W1EWHDM



Photometric Data



RL6069FSD2W1EWHDM -600LM -3000K

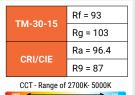
Spacing criterion:

(0-180) 1.21 | (90-270) 1.21 | (Diagonal) 1.3

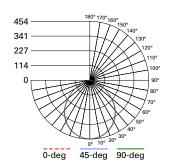
Beam Angle: 98° Field Angle: 145° Lumens: 750 Input Watts: 7.5 W Efficacy: 100 LPW UGR: 19

Test Report: P639505

Zonal Lumen	Lumens	% Lumens
0-30	247	33
0-40	399	53.2
0-60	655	87.3
0-90	750	100







RL6LS9FSD2W1EWHDM -900LM -3000K

Spacing criterion:

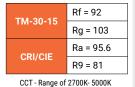
(0-180) 1.21 | (90-270) 1.21 | (Diagonal) 1.3

Beam Angle: 98° Field Angle: 145° Lumens: 1050 Input Watts: 9.9 W Efficacy: 106.1 LPW

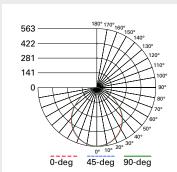
UGR: 20

Test Report: P639515

Zonal Lumen	Lumens	% Lumens
0-30	346	33
0-40	558	53.2
0-60	916	87.3
0-90	1050	100







RL6LS9FSD2W1EWHDM -1200LM -3000K

Spacing criterion:

(0-180) 1.21 | (90-270) 1.21 | (Diagonal) 1.3

Beam Angle: 98° Field Angle: 145° Lumens: 1300 Input Watts: 13.8 W Efficacy: 94.2 LPW

UGR: 20

Test Report: P639510

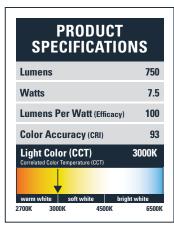
Zonal Lumen	Lumens	% Lumens
0-30	429	33
0-40	691	53.2
0-60	1135	87.3
0-90	1300	100



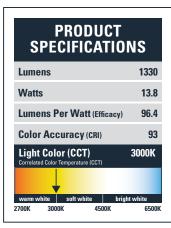


Product Specifications

RL6069FSD2W1EWHDM



RL6LS9FSD2W1EWHDM





Specifications and dimensions subject to change without notice.