

Project		Catalog #		Type	
Prepared by		Notes		Date	



# HALO

## RL4-DM

4" All-Purpose LED Retrofit Direct Mount w/ Remote Driver/Junction Box  
600 Lumen Series

### Typical Applications

Residential

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### 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 JAB.

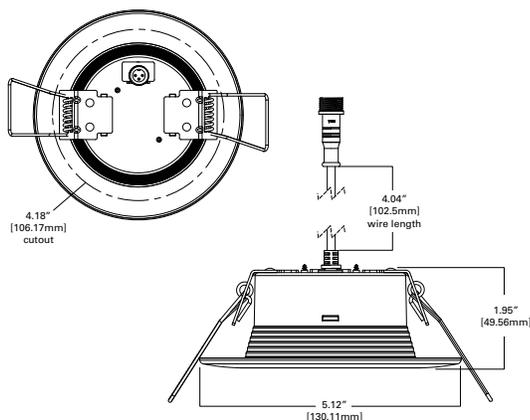
### Product Features



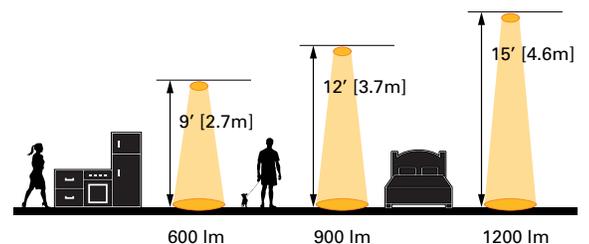
### Top Product Features

- 4" Direct Mount Field Selectable CCT LED Retrofit
- Direct mount - does not require recessed housing or junction box
- Select from 5 CCTs via switch; 2700K, 3000K, 3500K, 4000K, 5000K CCT
- Wet location listed for showers and protected ceilings
- Dimmable to 5% with 120V dimmers

### Dimensional and Mounting Details



### Scale



## Order Information

SAMPLE ORDER NUMBER: **RL4069S1EWHDMR**

A complete luminaire consists of an LED module and remote driver/junction box.

Models	Lumens	CRI/CCT	Driver	Finish	Mounting	Packaging
<b>Models</b>	<b>Lumens</b>	<b>CRI/CCT</b>	<b>Driver</b>	<b>Finish</b>	<b>Mounting</b>	<b>Packaging</b>
<b>RL4= 4" All-Purpose Retrofit LED module</b>	<b>06 = 600 lumens (nominal)</b>	<b>9S = 90 CRI minimum, white tuning, selectable CCT 2700K-5000K</b>	<b>1E = 120V 60Hz leading or trailing edge phase cut 5% dimming</b>	<b>WH = Matte white baffle</b>	<b>DM = Direct Mount</b>	<b>R = recyclable 4-color unit carton suitable for point of purchase merchandising display</b>
<b>Notes</b>	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>	<b>Notes</b>

## Accessories

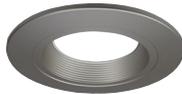
Accessories	
<p><b>Mounting Frame</b>  <b>HL4NCMF</b> = 4" new construction mounting frame  <b>HL4RSMF</b> = 4" round and square mounting frame</p> <p><b>Designer Trims</b>  <b>RL4TRMWHB</b> = 4" White Paintable Trim Ring, Baffle  <b>RL4TRMSNB</b> = 4" Satin Nickel Trim Ring, Baffle  <b>RL4TRMTBZB</b> = 4" Tuscan Bronze Trim Ring, Baffle</p> <p><b>RL4TRMWH</b> = 4" White Paintable Trim Ring  <b>RL4TRMSN</b> = 4" Satin Nickel Trim Ring  <b>RL4TRMTBZ</b> = 4" Tuscan Bronze Trim Ring</p>	<p><b>Extension Cable   Dedicated Driver/Jbox</b>  <b>HLB06EC</b> - 6 ft. extension cable  <b>HLB12EC</b> - 12 ft. extension cable  <b>HLB20EC</b> - 20 ft. extension cable</p> <p><b>Extension Cable   seleCCTable Driver/Jbox</b>  <b>HLB06FSEC</b> - 6 ft. extension cable  <b>HLB12FSEC</b> - 12 ft. extension cable  <b>HLB20FSEC</b> - 20 ft. extension cable</p>



**RL4TRMWHB**  
White (Paintable)



**RL4TRMTBZB**  
Tuscan Bronze



**RL4TRMSNB**  
Satin Nickel



**RL4TRMWH**  
White (Paintable)



**RL4TRMTBZ**  
Tuscan Bronze



**RL4TRMSN**  
Satin Nickel

## Product Specifications

### CCT Select System

- SeleCCTable models use the switch to choose between 2700K, 3000K, 3500K, 4000K, and 5000K CCT.

### 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 within 3 SDCM at the CCT endpoints and 4 SDCM in between endpoints, provide color accuracy and uniformity.
- Color Temperature (CCT) has an selectable range from 2700K to 5000K (factory default 3000K)
- Optional dedicated 3000K color temperature, color accuracy within 3 SDCM

### 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

### 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

### Driver

- Integral 120V 60 Hz constant current driver provides noise free operation
- Continuous, flicker-free dimming from 100% to 5%.
- Plenum rated inline electrical quick connect provides low voltage connection to fixture fitting

### Installation

- Can be installed in 1/2" to 1-1/4" thick ceilings
- Cutout can utilize standard round hole saw sizes, cutout template provided
- Heat treated springs hold fixture fitting securely in the ceiling eliminating light leaks
- Can be removed from below the ceiling for service or replacement

### Mounting / Retention

- The RL-DM 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

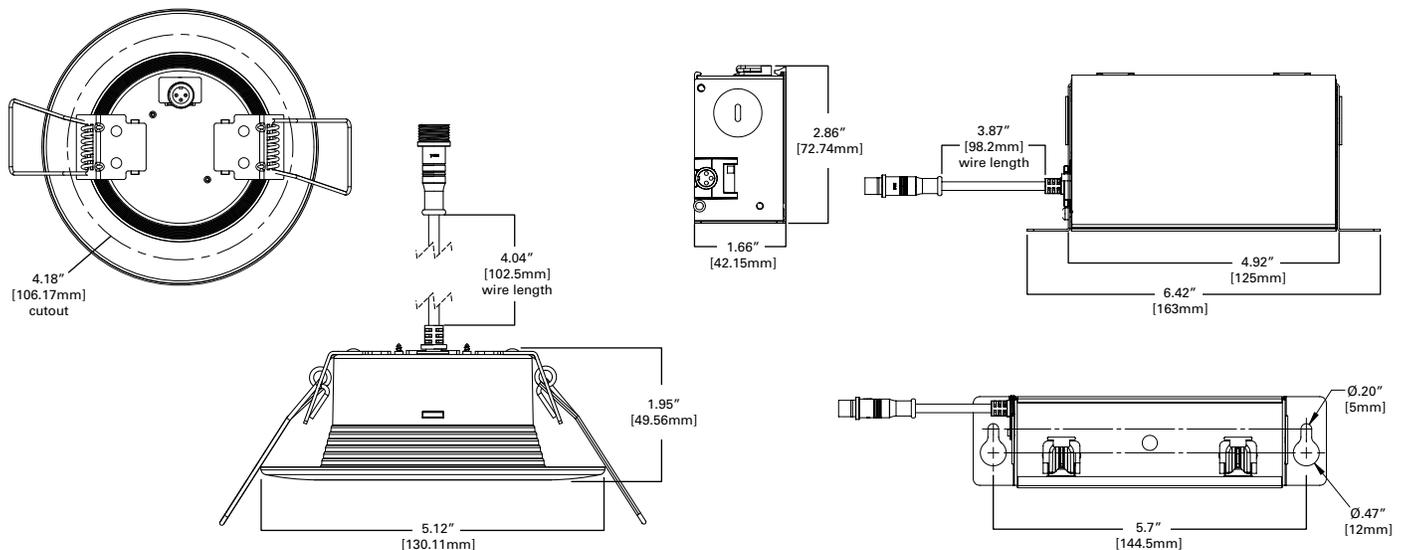
### Compliance

- UL Certified for US and Canada
- Wet and Damp location listed
- Airtight certified per ASTM-E283
- 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 JAB-2016-E.
- Can be used International Energy Conservation Coe (IECC) and Washington State Energy Code high efficiency luminaire compliance.
- ENERGY STAR® listed, reference database for current listings

### Warranty

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

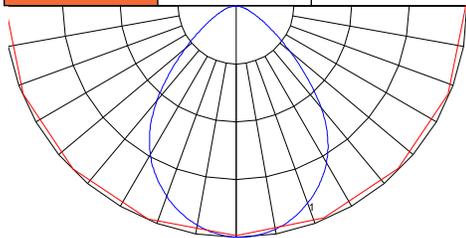
## Dimensional and Mounting Details



## Photometric Data

[View IES files](#)

RL6069S1EWHDM-3000K		
Luminaire lumens	652	
Input watts	8.7	
LER (LPW)	74.9	
Spacing Criteria	0-180	1.18
	90-270	1.18
	Diagonal	1.26
Beam angle (degrees)	93.1	
Field angle (degrees)	141.1	
Zonal lumen	Lumens	% Lumens
0-30	230.2	35.3
0-40	365.1	56
0-60	579	88.8
0-90	652	100



## Color Metric Summary - 3000K

TM-30-15	Rf = 90.8
	Rg = 99.7
CRI/CIE	Ra = 93.7
	R9 = 69.3



CCT - Range of 2700K- 5000K



RL4-DM	CCT	Lumens	Power (W)	LPW
Field Selectable CCT	2700K	629.3	8.7	72.3
	3000K	652	8.7	74.9
	3500K	670.8	8.7	77.1
	4000K	685.1	8.7	78.7
	5000K	692.7	8.7	79.6

\* Tested in accordance with IES LM63. Field results may vary.

## Energy Data

Energy Data @ 3000K	
Lumens	600 Series
Input Voltage	120V
Input Current	74 (mA)
Input Power	8.7 (W)
Efficiency	75 (LPW)
Inrush (A)	2.1 (A)
THD: ≤ 20%	
PF: ≥ 0.90	
T Ambient -30 - +40°C	
Sound Rating ≤ 20dba	

## Product Specifications

### SeleCCTable RL4069S1EWHDM

PRODUCT SPECIFICATIONS	
Lumens	652
Watts	8.7
Lumens Per Watt (Efficacy)	75
Color Accuracy (CRI)	92
Light Color (CCT)	3000K
Correlated Color Temperature (CCT)	
2700K	3000K
4500K	6500K