

Project		Catalog #		Type	
Prepared by		Notes		Date	



## HALO HOME™

### RL4 | Lumen Select

4-inch All-purpose LED retrofit module with Bluetooth® Mesh connectivity

#### Typical Applications

Residential

#### Interactive Menu

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- Product Warranty

#### Product Certification



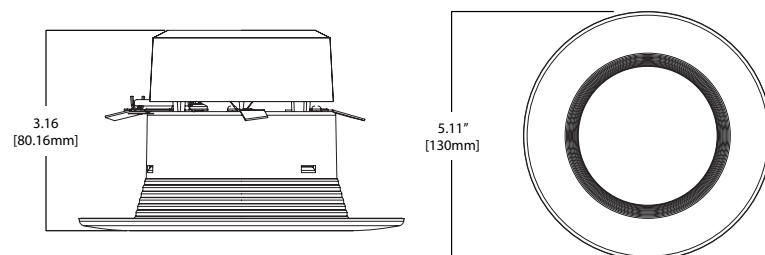
#### Product Features



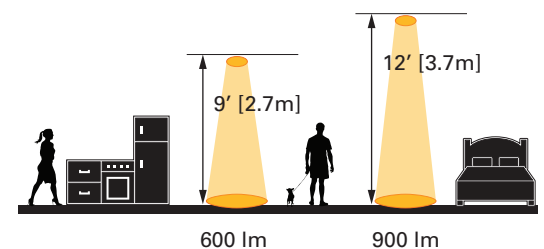
#### Top Product Features

- Selectable lumens: set max lumen output to 600 or 900 lumens
- Adjustable white tuning: 2700K - 5000K, 90 CRI
- Connect to the HALO Home Bluetooth Mesh network, no hub required
- Suitable for new construction, remodel and retrofit
- Listed for use with HALO 4" housings. Classified for use with other 4" housings


#### Dimensional and Mounting Details



#### Scale



## Order Information

SAMPLE ORDER NUMBER: **RL4099BLE40AWH**Icon Key:  Configurable Product

Models	Lumens	CRI/CCT	Protocol	Finish
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## Standard Driver 120-277VAC, 0-10V analog dimming

Models	Lumens	CRI/CCT	Protocol	Finish
<b>RL4</b> = 4" all-purpose retrofit LED module	<b>09</b> = 900 lumens (nominal)	<b>9</b> = 90 CRI minimum, white tuning, select CCT 2700K – 5000K, in the mobile app	<b>BLE40A</b> = Bluetooth Mesh wireless control, 4.0	<b>WH</b> = Matte white baffle
Notes	Notes	Notes	Notes	Notes

## Accessories

Accessories
<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  <b>RL4TRMWH</b> = 4" White Paintable Trim Ring <b>RL4TRMSN</b> = 4" Satin Nickel Trim Ring <b>RL4TRMTBZ</b> = 4" Tuscan Bronze Trim Ring
Notes

Discontinued  
19-02-2024

## Product Specifications

### Wireless System

- For use with the HALO Home mobile app
- Bluetooth low energy (BLE) mesh allows on/off, white tuning and lumen output to be controlled wirelessly with companion wall switches, smart phones and tablets using HALO Home mobile application
- Setup groups, scenes and schedules to automate lighting with the HALO Home mobile app

### Wireless Pairing

- See HALO Home Quick Start Guide for wireless setup, guidance and troubleshooting: [www.cooperlighting.com](http://www.cooperlighting.com)

### Bluetooth Mesh

- HALO Home products work better together. Smartphone(s) will need to be within range of HALO Home device to control
- Expand and strengthen the Bluetooth network range by adding HALO Home devices. Learn more at [www.cooperlighting.com](http://www.cooperlighting.com)

### 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, keeping the junction temperatures below specified maximums, even when installed in insulated ceiling environments

### LED Array

- Use the HALO Home app to set maximum light output - choose between 600 or 900 lumens
- 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 adjustable range from 2700K to 5000K within the mobile app (factory default 3000K)
- 50,000 hour life

### Optical Assembly

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

### Driver

- Integral 120V 60 Hz constant current driver provides noise free operation
- Inline electrical quick connect and E26 adapter (included) provides mains connections
- Consult instruction sheets and Quick Start Guide for more information

### Dimming

- Continuous, flicker-free dimming from 100% to 5%
- Only dimmable with HALO Home devices or app

### Retention

- Push-N-Twist universal installation clips
- Clips are pre-installed and designed to fit 4" compatible recessed housings

### Designer Skins (sold separately)

- RL4 skins are accessory rings that attach to the RL4 for a permanent finish. Refer to the RL4 accessories specification sheet for details
  - White (Paintable)
  - Satin Nickel
  - Tuscan Bronze

### Gaskets

- Closed cell gaskets achieve restrictive airflow requirements without additional caulking

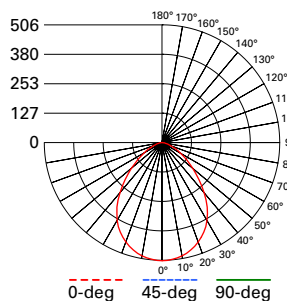
### Compliance

- UL Certified for use with Halo housings and other's housings
- 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 JA8-2016-E
- Can be used International Energy Conservation Code (IECC) high efficiency luminaire compliance
- ENERGY STAR® listed, reference database for current listings
- FCC ID: 2AKCY-RL4HLBLE
- IC Code: 4706A-RL4HLBLE

### Warranty

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

## Photometric Data

[View IES files](#)


**RL4099BLE40AWH-3000K**  
 Spacing criterion: (0-180) 1.16  
 (90-270) 1.16  
 (Diagonal) 1.2  
 Beam Angle: 84.9°  
 Field Angle: 136.8°  
 Lumens: 973  
 Input Watts: 10.6 W  
 Efficacy: 91.79 LPW  
 Test Report:  
 RL4099BLE40AWH-3000K.ies

Zonal Lumen	Lumens	% Lumens
0-30	376.6	38.7
0-40	585.7	60.2
0-60	864.0	88.8
0-90	973.0	100

Note: Refer to IES files for more product data.

## Energy and Performance Data

### Color Metrics - TM-30-15 & CRI/CIE (3000K)

TM-30-15	Rf = 91
	Rg = 100
CRI/CIE	Ra = 92
	R9 = 69

CCT - Range of 2700K - 5000K

warm ← → cool

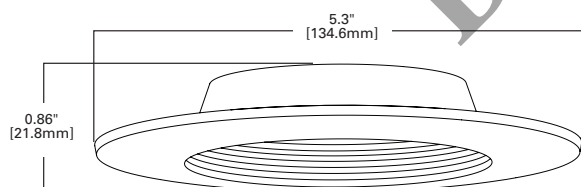


### Color Temperature Multipliers

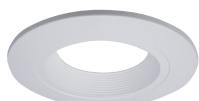
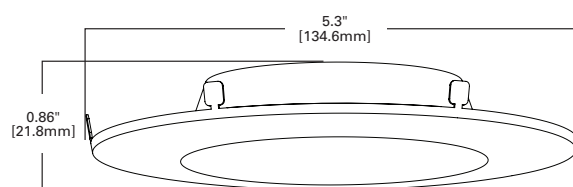
	LUMENS	POWER (W)	LPW
2700K	956	10.6	90.2
3000K	973	10.9	89.3
3500K	984	10.9	90.3
4000K	992	10.9	91.0
5000K	998	10.9	91.6

## Dimensional Details

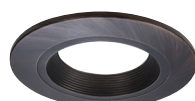
### Designer Trim - Baffle



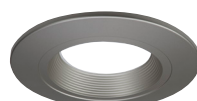
### Designer Trim - Splay



**RL4TRMWHB**  
White (Paintable)



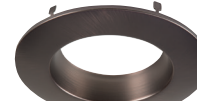
**RL4TRMTBZB**  
Tuscan Bronze



**RL4TRMSNB**  
Satin Nickel



**RL4TRMWH**  
White (Paintable)



**RL4TRMTBZ**  
Tuscan Bronze



**RL4TRMSN**  
Satin Nickel