| | | | | | |
|---|---|---|---|---|---|
| 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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- Energy & Performance Data page 4
- Product Warranty


## Product Certification

ENERGY STAR · IECC · Efficiency Standards T24 · Efficiency Standards T20 · FC · RoHS COMPLIANT · UL CERTIFIED

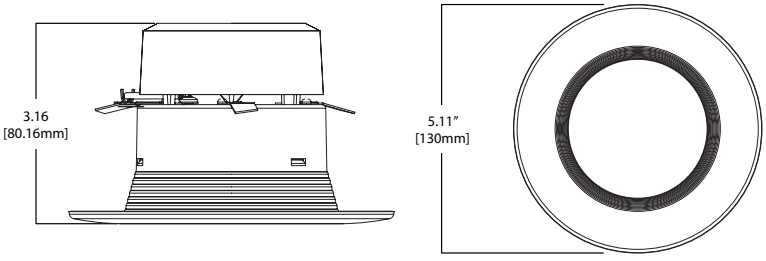
## Product Features

adjustable white · 600 900 LUMEN PRESETS · airade · Showerlight · Download on the App Store · GET IT ON Google Play

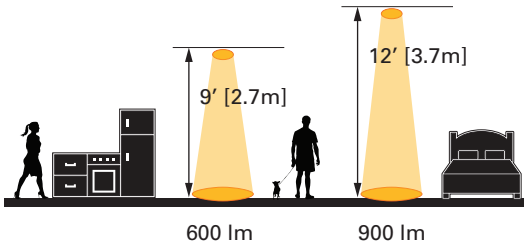
## Top Product Features

- 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

Icon Key: Δ Configurable Product

SAMPLE ORDER NUMBER: **RL4099BLE40AWH**

Models | Lumens | CRI/CCT | Protocol | Finish

### Standard Driver 120-277VAC, 0-10V analog dimming

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

### Accessories

| Accessories |
|---|
| **Designer Trims**<br>**RL4TRMWHB =** 4" White Paintable Trim Ring, Baffle<br>**RL4TRMSNB =** 4" Satin Nickel Trim Ring, Baffle<br>**RL4TRMTBZB =** 4" Tuscan Bronze Trim Ring, Baffle<br><br>**RL4TRMWH =** 4" White Paintable Trim Ring<br>**RL4TRMSN =** 4" Satin Nickel Trim Ring<br>**RL4TRMTBZ =** 4" Tuscan Bronze Trim Ring |
| **Notes** |

# 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

### 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

### 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

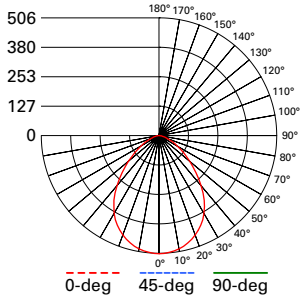
### Gaskets
- Closed cell gaskets achieve restrictive airflow requirements without additional caulking

### 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

## 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 |





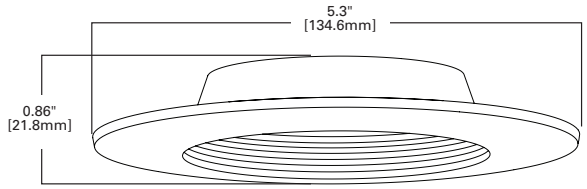


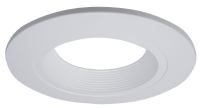
**Color Temperature Multipliers**

| | | LUMENS | POWER (W) | LPW |
|---|---|---|---|---|
| App Adjustable CCT | 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 |

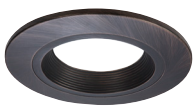
## Dimensional Details

**Designer Trim - Baffle**

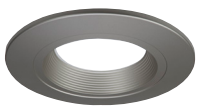


**RL4TRMWHB**
White (Paintable)

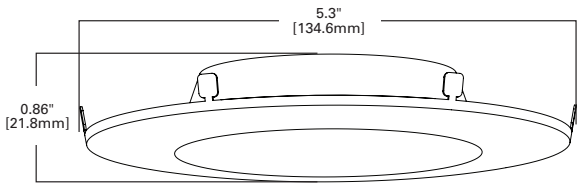


**RL4TRMTBZB**
Tuscan Bronze



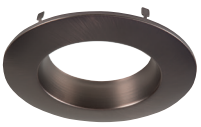
**RL4TRMSNB**
Satin Nickel

**Designer Trim - Splay**






**RL4TRMWH**
White (Paintable)



**RL4TRMTBZ**
Tuscan Bronze



**RL4TRMSN**
Satin Nickel

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Specifications and dimensions subject to change without notice.