# HALO™

## Description

The Halo RL56 SeleCCTable™ is a complete LED Baffle-Trim Module for 5 inch and 6 inch aperture recessed downlights; suitable for new construction, remodel and retrofit installation. Using the CCT selectable switch users can chose between five different color temperatures. The lens provides uniform illumination and wet location listing. Precision construction makes any housing AIR-TITE for added savings and code compliance.

| | |
|---|---|
| Catalog # | Type |
| Project | |
| Comments | Date |
| Prepared by | |

## Specification Features

### CCT Select System
- 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, keeping the junction temperatures below specified maximums, even when installed in insulated ceiling environments.

### 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) has a selectable range from 2700K to 5000K (factory default 3000K)

### 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
- Continuous, flicker-free dimming from 100% to 5%.
- Inline electrical quick connect and E26 adapter (provided) provides mains connections
- See Dimming Guide for compatible dimmers

### Retention
- Integral torsion springs and Push-N-Twist clips offer two mounting options
- Torsion springs are pre-installed and adjust to fit 5" or 6" compatible housings
- Push-N-Twist universal installation clips are pre-installed and designed to fit 5" or 6" compatible housings

### Designer Skins (sold separately)
- RL56 skins are accessory rings that attach to the RL56 for a permanent finish. Refer to the RL56 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
- 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

### Warranty
Five year limited warranty, consult website for details.
www.eaton.com/lighting/legal

**RL56069S1EWH**
**RL56099S1EWH**

**RL56129S1EWH**

## RL56

**5/6-Inch All-Purpose LED Retrofit Module with SeleCCTable switch**

**up to 1272 lumens**

**FOR USE IN INSULATED CEILING AND NON- INSULATED CEILING RATED HOUSINGS**

**HIGH-EFFICACY LED WITH INTEGRAL DRIVER - DIMMABLE**

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**5 seleCCTable™ colors**
2700K • 3000K • 3500K
4000K • 5000K

ENERGY STAR

Can be used for IECC International Energy Conservation Code High Efficacy Compliance

T24 — Can be used to comply with 2016 Title 24 Part 6 LED Enclosed Light Source Requirements (JA8)  Efficiency Standards

T20 — California Title 20 Certified LED Tier 1 Lamp  Efficiency Standards

RoHS

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.
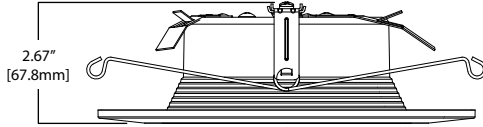
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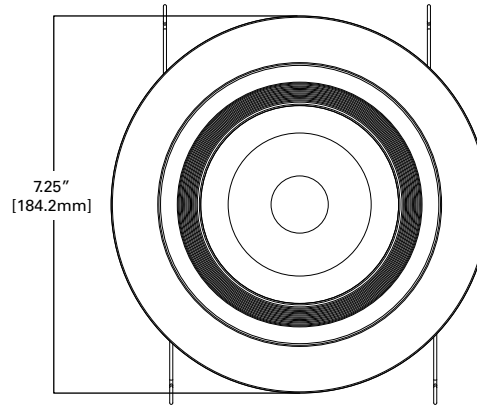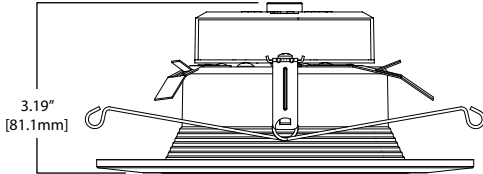
Showerlight

air-tite™

## Energy Data

| RL56069S1EWH | |
|---|---|
| Max. Lumens | 712 @ 4000K |
| Input Voltage | 120V |
| Input Frequency | 50/60 Hz |
| Input Power | 7.6W |
| Input Current | 0.15 A |
| Power Factor | >0.90 |
| THD | <20% |
| EMI/RFI | FCC Title 47 CFR, Part 15, Class B (Consumer) |
| Sound Rating | Class A |
| Minimum Starting Temp | -30°C (-22°F) |

| RL56099S1EWH | |
|---|---|
| Max. Lumens | 1006 @ 4000K |
| Input Voltage | 120V |
| Input Frequency | 50/60 Hz |
| Input Power | 12.1W |
| Input Current | 0.15 A |
| Power Factor | >0.90 |
| THD | <20% |
| EMI/RFI | FCC Title 47 CFR, Part 15, Class B (Consumer) |
| Sound Rating | Class A |
| Minimum Starting Temp | -30°C (-22°F) |

| RL56129S1EWH | |
|---|---|
| Max. Lumens | 1272 @ 5000K |
| Input Voltage | 120V |
| Input Frequency | 50/60 Hz |
| Input Power | 14W |
| Input Current | 0.15 A |
| Power Factor | >0.90 |
| THD | <20% |
| EMI/RFI | FCC Title 47 CFR, Part 15, Class B (Consumer) |
| Sound Rating | Class A |
| Minimum Starting Temp | -30°C (-22°F) |

**FATON**
Powering Business Worldwide

## Dimensions

### 600/900 Lumen

2.67"
[67.8mm]

### 1200 Lumen

3.19"
[81.1mm]

7.25"
[184.2mm]

## Ordering Information

**SAMPLE NUMBER:** RL56069S1EWH
A complete luminaire consists of a housing, and LED module, order separately.

| Models | Lumens | CRI/CCT | Driver | Finish | Accessories |
|---|---|---|---|---|---|
| **RL56**= 5"/6" all- purpose retrofit LED module | **06**=600 lumens (nominal)<br>**09**=900 lumens (nominal)<br>**12**=1200 lumens (nominal) | **9S**=90 CRI minimum, white tuning, selectable CCT 2700K-5000K | **1E**=120V 60Hz leading or trailing edge phase cut 1% dimming | **WH**=Matte white baffle | **RL56TRMWHB** =5"/6" White Paintable Trim Ring, Baffle<br>**RL56TRMSNB** =5"/6" Satin Nickel Trim Ring, Baffle<br>**RL56TRMTBZB** =5"/6" Tuscan Bronze Trim Ring, Baffle<br>**RL56TRMWH** =5"/6" White Paintable Trim Ring<br>**RL56TRMSN** =5"/6" Satin Nickel Trim Ring<br>**RL56TRMTBZ** =5"/6" Tuscan Bronze Trim Ring |

## Housings

**Halo LED 5-inch**
**H550ICAT**= 5" LED, Insulated Ceiling, Air-Tite, New Construction Housing
**H550RICAT**= 5" LED, Insulated Ceiling, Air-Tite, Remodel Housing
**E550ICAT**= 5" LED, Insulated Ceiling, Air-Tite, New Construction Housing
**E550RICAT**= 5" LED, Insulated Ceiling, Air-Tite, Remodel Housing

**Halo LED 6-inch**
**H750ICAT**= 6" LED, Insulated Ceiling, Air-Tite, New Construction Housing
**H750RICAT**= 6" LED, Insulated Ceiling, Air-Tite, Remodel Housing
**H750T**= 6" LED, Non-IC, Air-Tite, New Construction Housing
**H750TCP**= 6" LED, Non-IC, New Construction/Remodel Chicago Plenum Housing
**H2750ICAT=** 6" LED, Shallow, Insulated Ceiling, Air-Tite, New Construction (use with 691X, 694X, 696X trims only)
**H2750RICAT**= 6" LED, Shallow, Insulated Ceiling, Air-Tite, Remodel (use with 691X, 694X, 696X trims only)
**E750ICAT**= 6" LED, Insulated Ceiling, Air-Tite, New Construction Housing
**E750RICAT**= 6" LED, Insulated Ceiling, Air-Tite, Remodel Housing

**Halo LED retrofit**
**ML7E26RFK**= 6" Retrofit Enclosure, Non-IC, E26 Screw base Interface
**ML7BXFK**= 6" Retrofit Enclosure, Non-IC, BX Whip

**Halo Shallow Housings 5-inch**
**H25ICAT**= 5" Shallow, Insulated Ceiling, Air-Tite New Construction
**H25RICAT**= 5" Shallow, Insulated Ceiling, Air-Tite Remodel
**H25ICATNB**= 5" Shallow, Insulated Ceiling, Air-Tite New Construction, No Socket Bracket

**Halo Shallow Housings 6-inch**
**H27ICAT**= 6" Shallow, Insulated Ceiling, Air-Tite New Construction
**H27RICAT**= 6" Shallow, Insulated Ceiling, Air-Tite Remodel Housing
**H27T**= 6" Shallow, Non-IC, New Construction Housing
**H27RT**= 6" Shallow, Non-IC, Remodel Housing
**E27ICAT**= 6" Shallow, Insulated Ceiling, Air-Tite New Construction
**E27RICAT**= 6" Shallow, Insulated Ceiling, Air-Tite Remodel Housing
**E27TAT**= 6" Shallow, Non-IC, New Construction Housing
**E27RTAT**= 6" Shallow, Non-IC, Remodel Housing

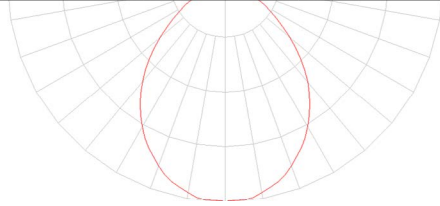**Halo Standard Housings 5-inch**
**H5ICAT**= 5" Insulated Ceiling, Air-Tite New Construction Housing
**H5RICAT**= 5" Insulated Ceiling, Air-Tite Remodel Housing
**H5ICATNB**= 5" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket
**H5T**= 5" Non-IC, New Construction Housing
**H5RT**= 5" Non-IC, Remodel Housing
**H5TNB**= 5" Non-IC, New Construction Housing, No Socket Bracket
**E5ICAT**= 5" Insulated Ceiling, Air-Tite New Construction Housing
**E5RICAT**= 5" Insulated Ceiling, Air-Tite Remodel Housing
**E5ICATNB**= 5" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket
**E5TAT**= 5" Non-IC, New Construction Housing
**E5RTAT**= 5" Non-IC, Remodel Housing
**E5TATNB**= 5" Non-IC, New Construction Housing, No Socket Bracket

**Halo Standard Housings 6-inch**
**H7ICAT**= 6" Insulated Ceiling, Air-Tite New Construction Housing
**H7RICAT**= 6" Insulated Ceiling, Air-Tite Remodel Housing
**H7ICT**= 6" Insulated Ceiling, New Construction Housing
**H7RICT**= 6" Insulated Ceiling, Remodel Housing
**H7ICATNB**= 6" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket
**H7ICTNB**= 6" Insulated Ceiling, New Construction Housing, No Socket Bracket
**H7T**= 6" Non-IC, New Construction Housing
**H7RT**= 6" Non-IC, Remodel Housing
**H7TNB**= 6" Non-IC, New Construction Housing, No Socket Bracket
**H7TCP**= 6" Non-IC, Chicago Plenum, New Construction/Remodel Housing
**H7UICAT**= 6" Insulated Ceiling, Universal, Air-Tite, New Construction Housing
**E7ICAT**= 6" Insulated Ceiling, Air-Tite New Construction Housing
**E7RICAT**= 6" Insulated Ceiling, Air-Tite Remodel Housing
**E7ICATNB**= 6" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket
**E7TAT**= 6" Non-IC, New Construction Housing
**E7RTAT**= 6" Non-IC, Remodel Housing
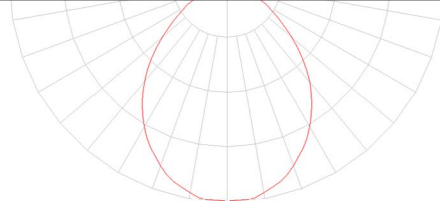**E7TATNB**= 6" Non-IC, New Construction Housing, No Socket Bracket

## Photometric Data

| RL56069S1EWH-3000K | | |
|---|---|---|
| Luminaire lumens | | 665 |
| Input watts | | 7.6 |
| LER (LPW) | | 87.5 |
| Spacing Criteria | 0-180 | 1.14 |
| | 90-270 | 1.14 |
| | Diagonal | 1.22 |
| Beam angle (degrees) | | 87.8 |
| Field angle (degrees) | | 139 |
| Zonal lumen | Lumens | % Lumens |
| 0-30 | 247 | 37.2 |
| 0-40 | 387 | 58.2 |
| 0-60 | 595 | 89.4 |
| 0-90 | 665 | 100 |

| RL56099S1EWH-3000K | | |
|---|---|---|
| Luminaire lumens | | 940 |
| Input watts | | 12.1 |
| LER (LPW) | | 77.7 |
| Spacing Criteria | 0-180 | 1.16 |
| | 90-270 | 1.16 |
| | Diagonal | 1.22 |
| Beam angle (degrees) | | 88.9 |
| Field angle (degrees) | | 140 |
| Zonal lumen | Lumens | % Lumens |
| 0-30 | 345 | 36.7 |
| 0-40 | 541 | 57.5 |
| 0-60 | 838 | 89.1 |
| 0-90 | 940 | 100 |

| RL56129S1EWH-3000K | | |
|---|---|---|
| Luminaire lumens | | 1221 |
| Input watts | | 14 |
| LER (LPW) | | 87.2 |
| Spacing Criteria | 0-180 | 1.21 |
| | 90-270 | 1.21 |
| | Diagonal | 1.31 |
| Beam angle (degrees) | | 93 |
| Field angle (degrees) | | 140 |
| Zonal lumen | Lumens | % Lumens |
| 0-30 | 345 | 31.7 |
| 0-40 | 541 | 51.5 |
| 0-60 | 838 | 85.5 |
| 0-90 | 940 | 100 |

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

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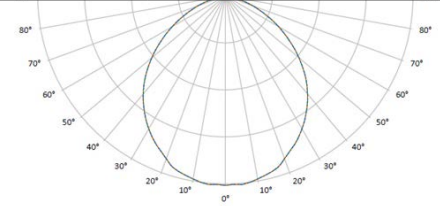
\* Tested in accordance with IES LM63. Field results may vary.

### Color Metric Summary

| TM-30-15 | Rf = 89.8 |
|---|---|
| | Rg = 98 |
| CRI/CIE | Ra = 93.7 |
| | R9 = 69.1 |

93°

CCT - Range of 2700K- 5000K

warm ← → cool

### Color Metric Summary

| TM-30-15 | Rf = 89.9 |
|---|---|
| | Rg = 97.7 |
| CRI/CIE | Ra = 93.1 |
| | R9 = 64.6 |

93°

CCT - Range of 2700K- 5000K

warm ← → cool

### Color Metric Summary

| TM-30-15 | Rf = 89.9 |
|---|---|
| | Rg = 97.7 |
| CRI/CIE | Ra = 93.1 |
| | R9 = 64.6 |

93°

CCT - Range of 2700K- 5000K

warm ← → cool

## Product Specifications

### PRODUCT SPECIFICATIONS

| | |
|---|---|
| Lumens | 665 |
| Watts | 7.6 |
| Lumens Per Watt (Efficacy) | 87.5 |
| Color Accuracy (CRI) | 92 |
| Light Color (CCT) Correlated Color Temperature (CCT) | 3000K |

warm white | soft white | bright white
2700K | 3000K | 4500K | 6500K

### PRODUCT SPECIFICATIONS

| | |
|---|---|
| Lumens | 940 |
| Watts | 12.1 |
| Lumens Per Watt (Efficacy) | 77.69 |
| Color Accuracy (CRI) | 90 |
| Light Color (CCT) Correlated Color Temperature (CCT) | 3000K |

warm white | soft white | bright white
2700K | 3000K | 4500K | 6500K

### PRODUCT SPECIFICATIONS

| | |
|---|---|
| Lumens | 1221 |
| Watts | 14 |
| Lumens Per Watt (Efficacy) | 87 |
| Color Accuracy (CRI) | 92 |
| Light Color (CCT) Correlated Color Temperature (CCT) | 3000K |

warm white | soft white | bright white
2700K | 3000K | 4500K | 6500K