

Project		Catalog #		Type	
Prepared by		Notes		Date	



## HALO

### RLD6 | Deep Baffle

6" All-Purpose LED Retrofit Module  
600 Lumen Series

#### Typical Applications

Residential

#### Interactive Menu

- Order Information page 2
- Product Specifications page 3
- Photometric Data page 2
- Energy & Performance Data page 3
- Product Warranty

#### 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.

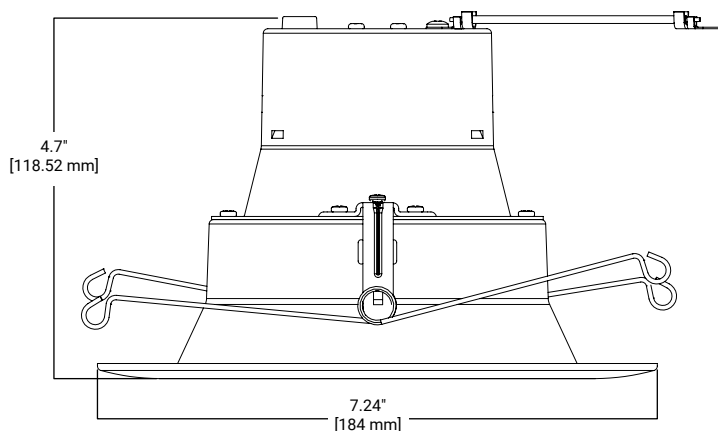
#### Product Features



#### Top Product Features

- ENERGY STAR® certified
- 80 CRI: 2700K, 3000K, 3500K, or 4000K CCT
- 90 CRI: 2700K, 3000K, 3500K, 4000K, or 5000K CCT
- Retrofits existing 6" housings with screwbase adapter included
- Use with Halo 6" LED housings – new construction & remodel

#### Dimensional and Mounting Details



## Order Information\*

SAMPLE ORDER NUMBER: **RLD6069301EWH**

A complete luminaire consists of a housing, and LED module, order separately.

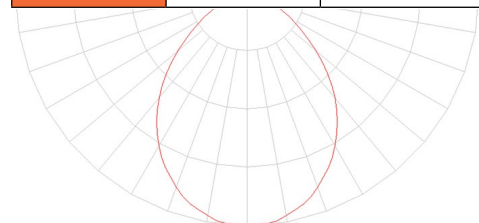
Models	Lumens	CRI/CCT	Driver	Finish	Accessories
<b>RLD6</b> = 6" Deep Baffle retrofit LED module	<b>06</b> = 600 lumens (nominal)	<b>930</b> = 90 CRI minimum, 3000K CCT	<b>1E</b> = 120V 60Hz leading or trailing edge phase cut 1% dimming	<b>WH</b> = matte white trim, white baffle and black baffle included	

## Housings

Housings	
<p><b><u>Halo LED 6-inch</u></b> <b>H750ICAT</b> = 6" LED, Insulated Ceiling, Air-Tite, New Construction Housing <b>H750RICAT</b> = 6" LED, Insulated Ceiling, Air-Tite, Remodel Housing <b>H750T</b> = 6" LED, Non-IC, Air-Tite, New Construction Housing <b>H750TCP</b> = 6" LED, Non-IC, New Construction/Remodel Chicago Plenum Housing <b>H2750ICAT</b> = 6" LED, Shallow, Insulated Ceiling, Air-Tite, New Construction (use with 691X, 694X, 696X trims only) <b>H2750RICAT</b> = 6" LED, Shallow, Insulated Ceiling, Air-Tite, Remodel (use with 691X, 694X, 696X trims only) <b>E750ICAT</b> = 6" LED, Insulated Ceiling, Air-Tite, New Construction Housing <b>E750RICAT</b> = 6" LED, Insulated Ceiling, Air-Tite, Remodel Housing</p> <p><b><u>Halo LED retrofit</u></b> <b>ML7E26RFK</b> = 6" Retrofit Enclosure, Non-IC, E26 Screw base Interface <b>ML7BXRFK</b> = 6" Retrofit Enclosure, Non-IC, BX Whip</p> <p><b><u>Halo Shallow Housings 6-inch</u></b> <b>H27ICAT</b> = 6" Shallow, Insulated Ceiling, Air-Tite New Construction <b>H27RICAT</b> = 6" Shallow, Insulated Ceiling, Air-Tite Remodel Housing <b>H27T</b> = 6" Shallow, Non-IC, New Construction Housing <b>H27RT</b> = 6" Shallow, Non-IC, Remodel Housing <b>E27ICAT</b> = 6" Shallow, Insulated Ceiling, Air-Tite New Construction <b>E27RICAT</b> = 6" Shallow, Insulated Ceiling, Air-Tite Remodel Housing <b>E27TAT</b> = 6" Shallow, Non-IC, New Construction Housing <b>E27RTAT</b> = 6" Shallow, Non-IC, Remodel Housing</p>	<p><b><u>Halo Standard Housings 6-inch</u></b> <b>H7ICAT</b> = 6" Insulated Ceiling, Air-Tite New Construction Housing <b>H7RICAT</b> = 6" Insulated Ceiling, Air-Tite Remodel Housing <b>H7ICT</b> = 6" Insulated Ceiling, New Construction Housing <b>H7RICT</b> = 6" Insulated Ceiling, Remodel Housing <b>H7ICATNB</b> = 6" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket <b>H7ICTNB</b> = 6" Insulated Ceiling, New Construction Housing, No Socket Bracket <b>H7T</b> = 6" Non-IC, New Construction Housing <b>H7RT</b> = 6" Non-IC, Remodel Housing <b>H7TNB</b> = 6" Non-IC, New Construction Housing, No Socket Bracket <b>H7TCP</b> = 6" Non-IC, Chicago Plenum, New Construction/Remodel Housing <b>H7UICAT</b> = 6" Insulated Ceiling, Universal, Air-Tite, New Construction Housing <b>E7ICAT</b> = 6" Insulated Ceiling, Air-Tite New Construction Housing <b>E7RICAT</b> = 6" Insulated Ceiling, Air-Tite Remodel Housing <b>E7ICATNB</b> = 6" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket <b>E7TAT</b> = 6" Non-IC, New Construction Housing <b>E7RTAT</b> = 6" Non-IC, Remodel Housing <b>E7TATNB</b> = 6" Non-IC, New Construction Housing, No Socket Bracket</p>

## Photometric Data

RLD6069301EWH		
Luminaire lumens		668
Input watts		8.5
LER (LPW)		78.6
Spacing Criteria	0-180	1.08
	90-270	1.08
	Diagonal	0.98
Beam angle (degrees)		66.1
Field angle (degrees)		108.8
Zonal lumen	Lumens	% Lumens
0-30	372	55.7
0-40	507	75.9
0-60	621	92.9
0-90	668	100



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

## Product Specifications

PRODUCT SPECIFICATIONS	
Lumens	681
Watts	8.5
Lumens Per Watt (Efficacy)	80.1
Color Accuracy (CRI)	91
Light Color (CCT)	3000K
Correlated Color Temperature (CCT)	
2700K	3000K
4500K	6500K

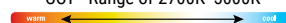
Performance metrics are measured using white baffle.

## Color Metric Summary

TM-30-15	R <sub>f</sub> = 91
	R <sub>g</sub> = 98.8
CRI/CIE	R <sub>a</sub> = 92.8
	R <sub>9</sub> = 67.2



CCT - Range of 2700K- 5000K



## Product Specifications

### Module – Trim

- Module construction includes LED Array, heat sink, reflector, lens, baffle and trim ring
- Regressed Coilex 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 within 3 SDCM provide color accuracy and uniformity

### Optical Assembly

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

### Baffles

- Each unit comes with a white baffle insert and black baffle insert

### Driver

- Integral 120V 50/60 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
- Consult instruction sheets and quick start guide for more information

### Retention

#### Torsion Springs

- Integral torsion springs offer two mounting options
- Torsion springs are pre-installed and adjust to fit 5" or 6" compatible housings

#### Friction Blades

- Provide alternative to torsion springs for retrofit in 5" and 6" housings without torsion spring mounting tabs
- Friction blade design allows the RL560 to be installed in any position within the housing aperture (360 degrees)

### 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) and Washington State Energy Code high efficiency luminaire compliance.
- ENERGY STAR® listed, reference database for current listings
- Meets State of California voluntary lamp standards
- Lighting Facts labeled

### Warranty

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

## Energy Data

Energy Data @ 3000K	
Lumens	668
Wattage	8.5W
Input current	0.073A
Efficacy	78.6 LPW
THD	17.5%
Frequency	60 Hz
T Ambient	-30 - +40°C
Voltage	120V
Sound Rating	Class A
Power Factor	0.99