Project		Catalog #		Type	
Prepared by		Notes		Date	







HALO

RL56 | Selectable CCT

5-inch/6-inch All-purpose LED retrofit module with SeleCCTable switch

Typical Applications

Residential

Interactive Menu

- Order Information page 2
- Product Specifications page 3
- Photometric Data page 4
- Energy & Performance Data page 4
- Product Warranty
- Dimming Guide

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 JA8.

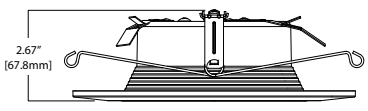
Product Features

Top Product Features

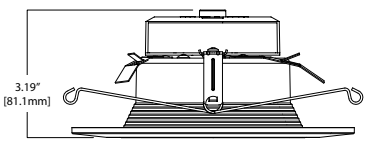
- Select from 5 CCTs via switch; 2700K, 3000K, 3500K, 4000K, 5000K CCT; 90 CRI
- Lumens: 600, 900, 1200
- Use with 5 or 6" housings with screwbase adapter included
- Dimmable down to 5%
- Dual-mount: Torsion Spring and Push-N-Twist clip models

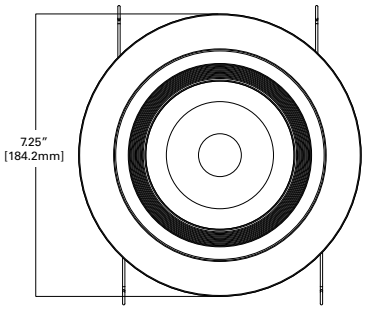
Dimensional and Mounting Details

600/900 Lumen

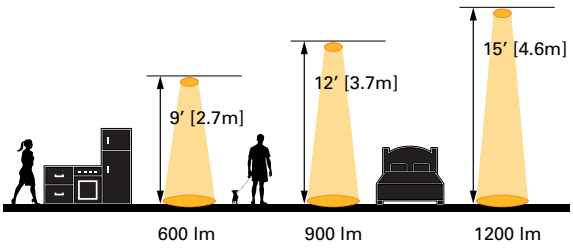


1200 Lumen





Scale



additional product diagrams

Order Information*

SAMPLE ORDER NUMBER: **RL56069S1EWHR**

Icon Key: Δ Configurable Product

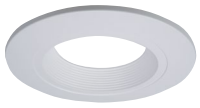
Models | Lumens | CRI/CCT | Driver | Finish | Packaging

Models	Lumens	CRI/CCT	Driver	Finish	Packaging
RL56 = 5"/6" all- purpose retrofit LED module	**06** = 600 lumens (nominal) **09** = 900 lumens (nominal) **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	**R** = Recyclable
Notes	**Notes**	**Notes**	**Notes**	**Notes**	**Notes**

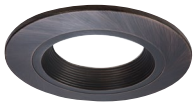
*** For T20 California product, apply "-CA" to the catalog number (ie. RL56099S1EWH-CA)**

Accessories

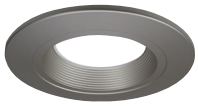
Accessories
Designer Trims **RL56TRMWHB** = 5"/ 6" White Paintable Trim Ring, Baffle **RL56TRMSNB** = 5"/ 6" Satin Nickel Trim Ring, Baffle **RL56TRMTBZB** = 5"/ 6" Tuscan Bronze Trim Ring, Baffle **RL56TRMWH** = 5"/ 6" White Paintable Trim Ring **RL56TRMSN** = 5"/ 6" Satin Nickel Trim Ring **RL56TRMTBZ** = 5"/ 6" Tuscan Bronze Trim Ring
Notes



RL56TRMWHB
White (Paintable)



RL56TRMTBZB
Tuscan Bronze



RL56TRMSNB
Satin Nickel



RL56TRMWH
White (Paintable)



RL56TRMTBZ
Tuscan Bronze



RL56TRMSN
Satin Nickel

Housings

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
Notes	

Product Specifications

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

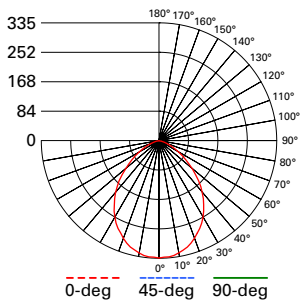
Gaskets
- Closed cell gaskets achieve restrictive airflow requirements without additional caulking

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

Photometric Data

View IES files

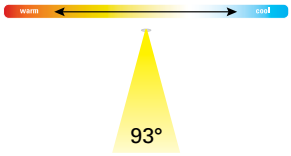


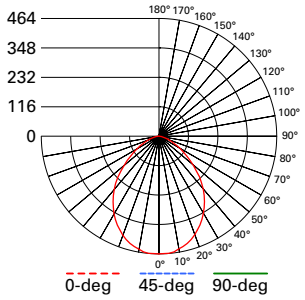
RL56069S1EWHR-3000K
Spacing criterion: (0-180) 1.14
(90-270) 1.14
(Diagonal) 1.22
Beam Angle: 87.8°
Field Angle: 139°
Lumens: 665
Input Watts: 7.6 W
Efficacy: 87.5 LPW
Test Report:
RL56069S1EWHR-3000K.ies

Zonal Lumen	Lumens	% Lumens
0-30	247	37.2
0-40	387	58.2
0-60	595	89.4
0-90	665	100

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

CCT - Range of 2700K- 5000K



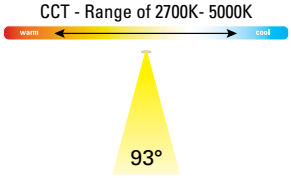


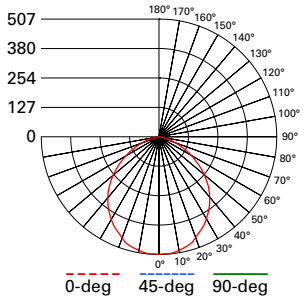
RL56099S1EWHR-3000K
Spacing criterion: (0-180) 1.16
(90-270) 1.16
(Diagonal) 1.22
Beam Angle: 88.9°
Field Angle: 140°
Lumens: 940
Input Watts: 12.1 W
Efficacy: 77.7 LPW
Test Report:
RL56099S1EWHR-3000K.ies

Zonal Lumen	Lumens	% Lumens
0-30	345	36.7
0-40	541	57.5
0-60	838	89.1
0-90	940	100

TM-30-15	Rf = 89.8
	Rg = 97.7
CRI/CIE	Ra = 93.1
	R9 = 64.6

CCT - Range of 2700K- 5000K



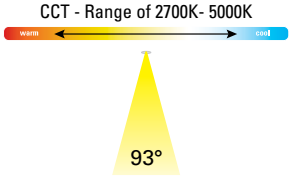


RL56129S1EWHR-3000K
Spacing criterion: (0-180) 1.21
(90-270) 1.21
(Diagonal) 1.31
Beam Angle: 93°
Field Angle: 140°
Lumens: 1221
Input Watts: 14 W
Efficacy: 87.2 LPW
Test Report:
RL56129S1EWHR-3000K.ies

Zonal Lumen	Lumens	% Lumens
0-30	345	31.7
0-40	541	51.5
0-60	838	85.5
0-90	940	100

TM-30-15	Rf = 89.8
	Rg = 97.7
CRI/CIE	Ra = 93.1
	R9 = 64.6

CCT - Range of 2700K- 5000K



Energy and Performance Data

RL56069S1EWHR	
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)

RL56099S1EWHR	
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)

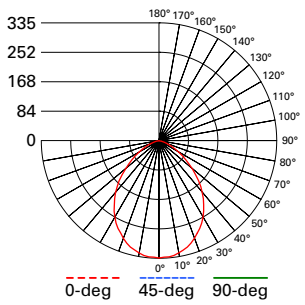
RL56129S1EWHR	
Max. Lumens	1272 @ 5000K
Input Voltage	120V
Input Frequency	50/60 Hz
Input Power	14W
Input Current	0.15 A
Power Factor	>0.90
THD	<20%
EMI/RFI	FCC Title 47 CFR, Part 15, Class B (Consumer)
Sound Rating	Class A
Minimum Starting Temp	-30°C (-22°F)

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

Note: Refer to IES files for more product data.

Photometric Data

View IES files

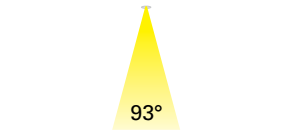


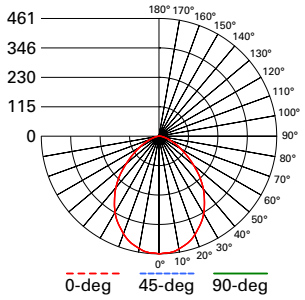
RL56069S1EWHR-CA-3000K
Spacing criterion: (0-180) 1.14
(90-270) 1.14
(Diagonal) 1.22
Beam Angle: 87.8°
Field Angle: 139°
Lumens: 665
Input Watts: 7.6 W
Efficacy: 87.5 LPW
Test Report:
RL56069S1EWHR-CA-3000K.ies

Zonal Lumen	Lumens	% Lumens
0-30	247	37.2
0-40	387	58.2
0-60	595	89.4
0-90	665	100

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

CCT - Range of 2700K- 5000K





RL56099S1EWHR-CA-3000K
Spacing criterion: (0-180) 1.13
(90-270) 1.13
(Diagonal) 1.21
Beam Angle: 88.9°
Field Angle: 140°
Lumens: 923
Input Watts: 9.9 W
Efficacy: 93.1 LPW
Test Report:
RL56099S1EWHR-CA-3000K.ies

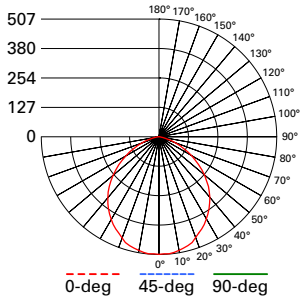
Zonal Lumen	Lumens	% Lumens
0-30	343	37.2
0-40	536	58.1
0-60	824	89.4
0-90	922	100

TM-30-15	Rf = 89.8
	Rg = 97.7
CRI/CIE	Ra = 93.1
	R9 = 64.6

CCT - Range of 2700K- 5000K







RL56129S1EWHR-CA-3000K
Spacing criterion: (0-180) 1.21
(90-270) 1.21
(Diagonal) 1.31
Beam Angle: 93°
Field Angle: 140°
Lumens: 1221
Input Watts: 14 W
Efficacy: 87.2 LPW
Test Report:
RL56129S1EWHR-CA-3000K.ies

Zonal Lumen	Lumens	% Lumens
0-30	345	31.7
0-40	541	51.5
0-60	838	85.5
0-90	940	100

TM-30-15	Rf = 89.8
	Rg = 97.7
CRI/CIE	Ra = 93.1
	R9 = 64.6

CCT - Range of 2700K- 5000K



Energy and Performance Data

RL56069S1EWHR-CA	
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)

RL56099S1EWHR-CA	
Max. Lumens	946 @ 4000K
Input Voltage	120V
Input Frequency	50/60 Hz
Input Power	9.9W
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)

RL56129S1EWHR-CA	
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)

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www.eaton.com/lighting

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Specifications and dimensions subject to change without notice.