# Description

The Halo RL560 is a complete LED Baffle-Trim Module for 5" and 6" aperture recessed downlights; suitable for new construction, remodel and retrofit installation. The RL560 is cULus Listed for use with Halo and All-Pro, and is UL Classified for use with other compatible 5" and 6" housings. The RL560 with integral LED driver offers 120 volt dimming capability. The RL560 lens provides uniform illumination and wet location listing. Precision construction makes any housing AIR-TITE for added HVAC savings and code compliance.

#### **Specification Features**

#### **MECHANICAL** Module - Trim

- Module construction includes LED heat sink, reflector, lens, baffle and trim ring
- · Regressed baffle
- Heat sink designed to conduct heat away from the LED keeping the junction temperatures below specified maximums, even when installed in insulated ceiling environments
- Designer trim finish options (sold separately)
- White (Paintable) Trim Ring
- Satin Nickel Trim Ring
- . Tuscan Bronze Trim Ring

#### Lens

- Regressed lens
- Impact-resistant polycarbonate
- Convex form for lamp-like appearance
- High lumen transmission
- Diffusing for even illumination

#### Mounting

- Push-N-Twist universal installation clips
- Pre-installed clips designed to fit industry standard 5" and 6" recessed housings

#### **Housing Compatibility**

#### See Housing Compatibility

#### LED

- Color Temperature (CCT)<sup>+</sup> Options:
- 2700K, 3000K, 3500K, and 4000K CRI options: 80 and 90<sup>t</sup>
- 90 CRI can be used for California Title 24 compliance/certified to Title 20
- 80 CRI can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as an LED luminaire

#### **LED Chromaticity**

- A tight chromaticity specification ensures LED color uniformity, sustainable Color Rendering Index (CRI) and Correlated Color Temperature (CCT) over the useful life of the LED
- LED chromaticity of 3 SDCM

3000K

3500K

4000K

700

3000

3500k

4000K

#### exceeds ENERGY STAR® color standards per ANSI C78.377-2008 90 CRI model features high color

- performance with R9 greater than 50
- · Every Halo LED is quality tested, measured, and serialized in a permanent record to register lumens, wattage, CRI and CCT
- · Halo LED serialized testing and measurement ensures color and lumen consistency on a per-unit basis, and validates long-term product consistency over time

# **ELECTRICAL**

# **Power Connections**

- LED connector is a non-screw base luminaire disconnect offering easy installation with the matching Halo 5" and 6" LED housings
- LED Connector meets California Title-24 high efficacy luminaire requirement for a non-screw base socket, and where required to qualify as a high efficacy luminaire
- The included E26 medium screwbase Edison adapter provides easy retrofit of incandescent housings (see Housing Compatibility)

#### **Ground Connection**

Separate grounding cable included on the module for attachment to the housing during installation.

#### LED Driver

- Dimmable driver is a 120 Volt, high efficiency, electronic power supply providing DC power to the LED
- Driver meets FCC EMI/RFI Consumer Level limits for use in residential and commercial installations
- Driver features high power factor, low THD, and has integral thermal protection in the event of over temperature or internal failure

#### Dimming

T24

24 Can be us Title 24 H

T20 Certifier

Designed for continuous dimming capability to nominally 5% with many 120V Leading Edge (LE) and Trailing Edge (TE) Phase Control dimmers. (Dimmers with low end trim adjustment offer greater assur-ance of achieving 5% level.)

WSEC

Energ High I Com

#### · Consult dimmer manufacturer for compatibility and conditions of use Note: some dimmers require a

neutral in the wallbox.

## Warranty

С

Ρ

С

Cooper Lighting provides a five year limited warranty on RL56 LED.

# Compliance

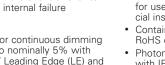
- Labels UL/cUL Listed 1598 Luminaire (with listed housings)
- UL Classified (with other housings see Housing Compatibility)
- UL/cUL Listed for Damp Location
- UL/cUL Listed for Wet Location -Shower Applications
- IP56 Ingress Protection rated May be installed in housings in
- direct contact with insulation\*\* and combustible material

#### Compliance

- Airtight certified per ASTM E283 (not exceeding 2.0 CFM under 57 Pascals pressure difference)
- 90 CRI: Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Title 20 Appliance Efficiency Database.
- 80 CRI: Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as an LED luminaire
- Can be used for International Energy Conservation Code (IECC) high efficiency luminaire compliance
- Can be used for Washington State Energy Code compliance
- ENERGY STAR® Certified luminaire - consult ENERGY STAR® Certified Product List<sup>4</sup>
- EMI/RFI per FCC 47CFR Part 15 Class B Consumer limits, suitable for use in residential and commercial installations
- Contains no mercury or lead and **RoHS** compliant
- Photometric testing in accordance with IES LM-79
- Lumen maintenance projections in accordance with IES LM-80 and TM-21

air Showerlight





Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire.

WSEC



RL560WH9<sup>†</sup> White

# 900 Series 5/6-Inch LED **Recessed Retrofit** Module-Trim

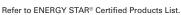
**80CRI** 2700K, 3000K, 3500K, 4000K

**90CRI** 2700K, 3000K, 3500K, 4000K

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

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

- Refer to ENERGY STAR® Certified Products List and CEC (T20) Appliance Database for listings.
- \*\* Not for use with housings in direct contact with spray foam insulation
- **t** . See ordering information table for available models.



Refer to ENERGY STAR® Certified Products List

**IECC** 

**IECC** 

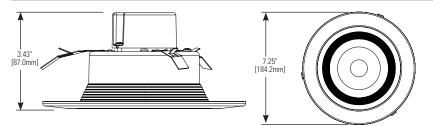
Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Title 20 Appliance Efficiency Database.



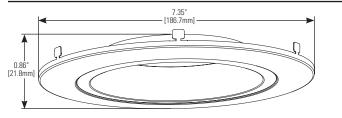
# HALO®

atalog #	Туре
roject	
omments	Date
repared by	

#### **RL56 Dimensions**



#### **Designer Trim Dimensions**







RL56TRMWH White (Paintable)

RL56TRMTBZ Tuscan Bronze Satin Nickel

#### **Performance Data**

Catalog #	CRI	Lumens	LPW	Watts	ССТ
RL560WH9827	80	1000	74	13.5	2700K
RL560WH9830	80	1030	76	13.5	3000K
RL560WH9835	80	1080	80	13.5	3500K
RL560WH9840	80	1100	81	13.5	4000K
RL560WH9927	90	850	63	13.5	2700K
RL560WH9930	90	885	66	13.5	3000K
RL560WH9935	90	910	67	13.5	3500K
RL560WH9940	90	930	69	13.5	4000K



# **Ordering Information**

#### Sample Number: RL560WH9827-RL56TRMSN

Complete unit includes a RL56 Baffle-Trim LED Module and a 5" and 6" compatible housing (ordered separately). Optional accessory designer trim ring ordered separately.

Accessory (Order Separately)
RL56TRMSN=5/6" Satin Nickel Trim Ring
RL56TRMTBZ=5/6" Tuscan Bronze Trim Ring
RL56TRMWH=5/6" White Paintable Trim Ring
OT400P=Oversize Flat White Metal Trim Ring 6" I.D. x 9-1/4" O.D. (ring slips behind RL560 ring, in stepped configuration)
OT403P=Oversize White Plastic Trim Ring 6" I.D. x 8" O.D. (ring slips behind RL560 ring, in stepped configuration)
TRM690WH=Oversize Matte White Metal Trim Ring. Designed for RL560 ring to inset into oversize ring for an even
(non-stepped) trim surface
HE26LED=Replacement screw base adapter (one included with unit)

# **Housing Compatibility**

#### RL56 Series LED Retrofit is UL Classified for retrofit in the follow 5/6" recessed housings:

The RL Series LED light module - trim combination is cULus Listed or UL Classified for use with any 5"/6" diameter recessed housing constructed of steel or aluminum with an internal volume that exceeds 107.9 in<sup>3</sup> in addition to those noted above.

# Energy Data

RL56 Series (Values at non-dimming line voltage)	
Minimum Starting Temp: -30°C (-22°F)	
EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer)	
Sound Rating: Class A	
Input Voltage: 120V	
Power Factor: >0.90	
Input Frequency: 60Hz	
THD: <20%	
Input Power: 13.5W	
Input Current: 0.15A	
Maximum IC (Insulated Ceiling) Ambient Continuous Operating Temperatu 25°C (77°F)	re:

Maximum Non-IC Ambient Continuous Operating Temperature 40°C (104°F)

Cooper Lighting

## HOUSINGS - Halo and All-Pro UL Listed Compatibility

Compatible Halo LED Housings with LED luminaire connector (high efficacy compliant - Title 24, IECC, WSEC)

Recessed Can Size	Catalog Number	Description
<b>– – – – – – – – – –</b>	H550ICAT	5" LED, Insulated Ceiling, AIR-TITE, New Construction Housing
J	H550RICAT	5" LED, Insulated Ceiling, AIR-TITE, Remodel Housing
	H750ICAT	6" LED, Insulated Ceiling, AIR-TITE, New Construction Housing
	H750RICAT	6" LED, Insulated Ceiling, AIR-TITE, Remodel Housing
6"	H750T	6" LED, Non-IC, AIR-TITE, New Construction Housing
0	H750RINTD010	6" LED, Non-IC, AIR-TITE, Remodel International Housing
	H750TCP	6" LED, Non-IC, New Construction/Remodel Chicago Plenum Housing
	H2750ICAT	6" LED, Shallow, Insulated Ceiling, AIR-TITE, New Construction Housing

# Compatible Halo Incandescent E26 Screwbase Housings

	H5ICAT	5" Insulated Ceiling, AIR-TITE New Construction Housing
	H5RICAT	5" Insulated Ceiling, AIR-TITE Remodel Housing
	H5T	5" Non-IC, New Construction Housing
5"	H5RT	5" Non-IC, Remodel Housing
	H5TM	5" Non-IC, New Construction Housing (metric version - Canada)
	H25ICAT	5" Shallow, Insulated Ceiling, AIR-TITE New Construction
	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
6"	Н7ТСР	6" Non-IC, Chicago Plenum, New Construction/Remodel Housing
O	H7UICT	6" Insulated Ceiling, Universal New Construction Housing
	H7UICAT	6" Insulated Ceiling, Universal, AIR-TITE, New Construction Housing
	H27ICAT	6" Shallow, Insulated Ceiling, AIR-TITE New Construction Housing
	H27RICAT	6" Shallow, Insulated Ceiling, AIR-TITE Remodel Housing
	H27ICT	6" Shallow, Insulated Ceiling, New Construction Housing
	H27RICT	6" Shallow, Insulated Ceiling, Remodel Housing
	H27T	6" Shallow, Non-IC, New Construction Housing
	H27RT	6" Shallow, Non-IC, Remodel Housing
	ML7BXRFK	6" Retrofit Enclosure, Non-IC, BX Whip
	ML7E26RFK	6" Retrofit Enclosure, Non-IC, E26 Screw base Interface

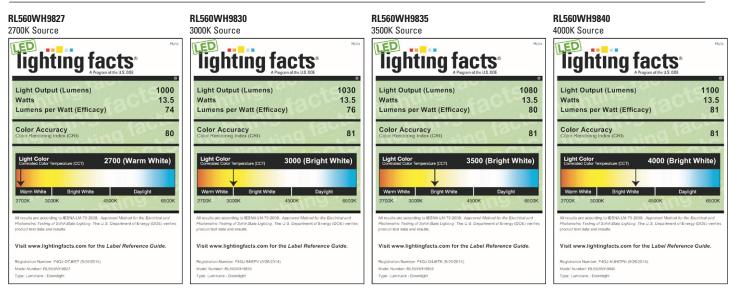
#### All-Pro Compatible Incandescent E26 Screwbase Housings

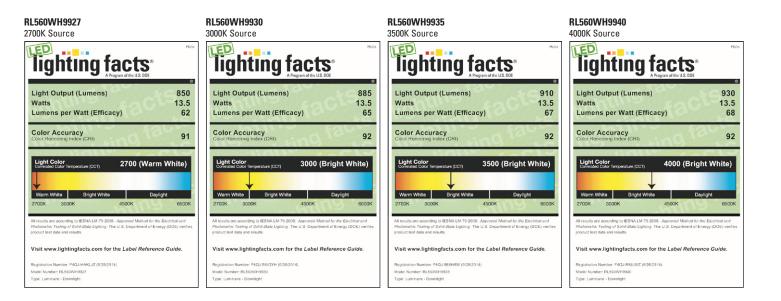
	EI500AT	5" Insulated Ceiling, AIR-TITE New Construction Housing
5"	EI500RAT	5" Insulated Ceiling, AIR-TITE Remodel Housing
J	ET500	5" Non-IC, New Construction Housing
	ET500R	5" Non-IC, Remodel Housing
	EI700AT	6" Insulated Ceiling, AIR-TITE New Construction Housing
	EI700RAT	6" Insulated Ceiling, AIR-TITE Remodel Housing
	E1700	6" Insulated Ceiling, New Construction Housing
	E1700R	6" Insulated Ceiling, Remodel Housing
	EI700ATNB	6" Insulated Ceiling, AIR-TITE New Construction Housing, No Socket Bracket
	EI700NB	6" Insulated Ceiling, New Construction Housing, No Socket Bracket
• • •	E1700U	6" Insulated Ceiling, Universal New Construction Housing
6"	EI700UAT	6" Insulated Ceiling, Universal, AIR-TITE, New Construction Housing
V	ET700	6" Non-IC, New Construction Housing
	ET700R	6" Non-IC, Remodel Housing
	EI2700AT	6" Shallow, Insulated Ceiling, AIR-TITE New Construction Housing
	EI2700	6" Shallow, Insulated Ceiling, New Construction Housing
	EI2700R	6" Shallow, Insulated Ceiling, AIR-TITE Remodel Housing
	ET2700	6" Shallow, Non-IC, New Construction Housing
	ET2700R	6" Shallow, Non-IC, Remodel Housing

3

RL56 LED System 900 Series

#### LIGHTING FACTS







Eaton's Cooper Lighting Business 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.eaton.com/lighting © 2015 Eaton All Rights Reserved Printed in USA Publication No. TD518005EN March 25, 2015 Eaton is a registered trademark.

Product availability, specifications, and compliances are subject to change without notice.