

## 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. The die-cast construction makes any housing AIR-TITE for added HVAC savings and code compliance.

Catalog #		Type
Project		
Comments		Date
Prepared by		

## SPECIFICATION FEATURES

### MECHANICAL Module - Trim

- Module construction includes LED, heat sink, reflector, lens, baffle and trim ring
- Durable die-cast aluminum construction
- 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
- Halo matte white paint finish

### Lens

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

### MOUNTING

#### Torsion Spring Brackets

- Pre-installed precision formed torsion spring brackets secure torsion springs and adjust to fit 5" or 6" compatible housings

#### 5" & 6" Friction Blade Kit

- Precision formed friction blades included
- 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).
- Replacement Kit: model RL56CLIP

### Housing Compatibility

See Housing Compatibility

### LED

- Color Temperature (CCT)<sup>†</sup>  
Options: 2700K, 3000K, 3500K, and 4000K
- CRI options: 80 and 90 <sup>†</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 a 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 exceeds ENERGY STAR<sup>®</sup> 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" H550 Series and 6" H750 Series 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 screw-base 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.

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**RL560WH<sup>+</sup>**  
White

### 900 Series

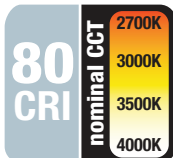
**80CRI**  
2700K, 3000K, 3500K,  
and 4000K

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

### 5-Inch / 6-Inch LED Recessed Retrofit Module-Trim

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

HIGH EFFICACY LED  
WITH INTEGRAL  
DRIVER - DIMMABLE



Refer to ENERGY STAR<sup>®</sup> Qualified Products List.  
Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire.



Refer to ENERGY STAR<sup>®</sup> Qualified Products List.  
Can be used to comply with California Title 24 High Efficacy requirements.  
Certified to California Title 20 Appliance Efficiency Database.

**SPECIFICATION FEATURES continued**

**Dimming**

The Halo RL560 LED module is designed for dimming capability to 10% in normal operation with standard 120V electronic low voltage, LED-Rated, and many incandescent dimmers. The RL560 has dimming capability to 5% with select dimmers with low end trim adjustment. (Consult dimmer manufacturer for dimmer compatibility and details. Note, some dimmers require a neutral in the wallbox.

**Warranty**

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

**Compliance Labels**

• UL/cUL Listed 1598 Luminaire (with listed Halo and All-Pro 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 a 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® qualified luminaire - consult ENGERY STAR® Qualified Product List\*
- 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

\* Qualified and compliant. Refer to ENERGY STAR® Qualified Products List and CEC (T24) Appliance Database for listings.  
 \*\* Not for use with housings in direct contact with spray foam insulation.  
 † See ordering information table for available models.



**RL560WH†**  
White

**900 Series**

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

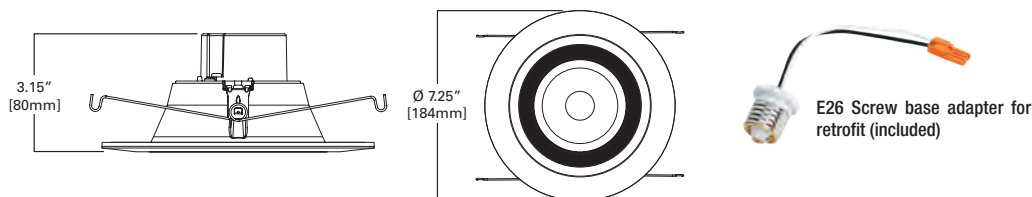
**90CRI**  
2700K, 3000K, 3500K,  
and 4000K

**5-Inch / 6-Inch LED Recessed Retrofit Module-Trim**

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

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

**DIMENSIONS**



**ENERGY DATA**

**RL560 Series Energy Data:**

(Values at non-dimming line voltage)

Minimum Starting Temp: -30°C (-22°F)
EMI/RFI: FCC Title 47 CFR, Part 18, Class B (Consumer)
Sound Rating: Class A standards
Input Voltage: 120V
Power Factor: >0.90
Input Frequency: 60Hz
THD: <20%
Input Power: 13.5W
Input Current: .15A
Maximum IC (Insulated Ceiling) Ambient Continuous Operating Temperature: 25°C (77°F)
Maximum Non-IC Ambient Continuous Operating Temperature 40°C (104°F)

**PERFORMANCE DATA**

Catalog #	CRI	Lumens	LPW	Watts	CCT
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  
 Complete unit includes a RL560 Baffle-Trim LED Module and a 5" and 6" compatible housing (ordered separately).

Catalog #	Description	Accessory (order separately)
RL560WH9827	5"/6" Retrofit Baffle - Trim LED Module, 80CRI, 2700K, Matte White	<b>RL56CLIP</b> =Replacement kit of 5" and 6" Friction Clips for retrofitting into an existing housing without torsion spring receiving brackets. (One set of clips included with the unit.) <b>OT400P</b> =Oversize Flat White Metal Trim Ring 6" I.D. x 9-1/4" O.D. (ring slips behind RL560 ring, in stepped configuration) <b>OT403P</b> =Oversize White Plastic Trim Ring 6" I.D. x 8" O.D. (ring slips behind RL560 ring, in stepped configuration) <b>TRM690WH</b> =Oversize Matte White Metal Trim Ring. Designed for RL560 ring to inset into oversize ring for an even (non-stepped) trim surface <b>HE26LED</b> =Replacement screw base adapter (one included with unit)
RL560WH9830	5"/6" Retrofit Baffle - Trim LED Module, 80CRI, 3000K, Matte White	
RL560WH9835	5"/6" Retrofit Baffle - Trim LED Module, 80CRI, 3500K, Matte White	
RL560WH9840	5"/6" Retrofit Baffle - Trim LED Module, 80CRI, 4000K, Matte White	
RL560WH9927	5"/6" Retrofit Baffle - Trim LED Module, 90CRI, 2700K, Matte White	
RL560WH9930	5"/6" Retrofit Baffle - Trim LED Module, 90CRI, 3000K, Matte White	
RL560WH9935	5"/6" Retrofit Baffle - Trim LED Module, 90CRI, 3500K, Matte White	
RL560WH9940	5"/6" Retrofit Baffle - Trim LED Module, 90CRI, 4000K, Matte White	

HOUSINGS - Halo and All-Pro UL Listed Compatibility

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

HALO	Recessed Can Size	Catalog Number	Description
	5"		H550ICAT
H550RICAT			5" LED, Insulated Ceiling, AIR-TITE, Remodel Housing
6"		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
		H750RINTD010	6" LED, Non-IC, AIR-TITE, Remodel International Housing, 0-10V DC Dimming
		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

HALO	5"	H5ICAT	5" Insulated Ceiling, AIR-TITE New Construction Housing	
		H5RICAT	5" Insulated Ceiling, AIR-TITE Remodel Housing	
		H5T	5" Non-IC, New Construction Housing	
		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	
	6"		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 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

**HOUSINGS - Halo and All-Pro UL Listed Compatibility (continued)**

**Halo LED Retrofit Enclosures**

<b>HALO</b>	<b>6"</b>	ML7BXRFK	6" Retrofit Enclosure, Non-IC, BX Whip
		ML7E26RFK	6" Retrofit Enclosure, Non-IC, E26 Screw base Interface

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

	Recessed Can Size	Catalog Number	Description
<b>All-Pro</b>	<b>5"</b>	EI500AT	5" Insulated Ceiling, AIR-TITE New Construction Housing
		EI500RAT	5" Insulated Ceiling, AIR-TITE Remodel Housing
		ET500	5" Non-IC, New Construction Housing
		ET500R	5" Non-IC, Remodel Housing
	<b>6"</b>	EI700AT	6" Insulated Ceiling, AIR-TITE New Construction Housing
		EI700RAT	6" Insulated Ceiling, AIR-TITE Remodel Housing
		EI700	6" Insulated Ceiling, New Construction Housing
		EI700R	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
		EI700U	6" Insulated Ceiling, Universal New Construction Housing
		EI700UAT	6" Insulated Ceiling, Universal, AIR-TITE, New Construction Housing
		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

**HOUSINGS - UL Classified for retrofit compatibility**

RL560 is UL Classified for retrofit in the following 5" and 6" recessed housings:

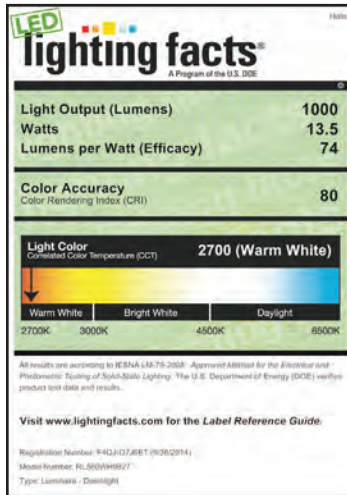
<b>Juno®</b>	IC22, IC22R, IC22W, IC22S, IC23, IC23W, IC21, IC21R, IC2, TC2, TC2R, IC20, IC20R, IC25, IC25R, IC25W, IC25S, TC20, TC20R
<b>Capri Lighting</b>	CR1, PR1, QL1, R9ASIC, R5*
<b>Lightolier®</b>	1104ICS*, 1104ICR*, 1104SIC*, 1104SICR*, 1004ICS*, 1004ICR*, 1004SIC*, 1004SICR*
	1104ICX - Requires installation of ML7RAB retrofit adapter band accessory (not included).
<b>Progress® Lighting</b>	P87-AT*, P86TG
<b>Lithonia Lighting®</b>	L7X, L7XP
<b>Thomas® Lighting</b>	PS1, R9ASIC/PS9RM
<b>Prescolite®</b>	IBXS
<b>Commercial Electric™</b>	C7ICA (H3), H18
<b>Elco Lighting®</b>	(HL7ICA) EL7ICA

\*Requires replacement of torsion springs with included friction clips (accessory replacement kit: RL56CLIP).

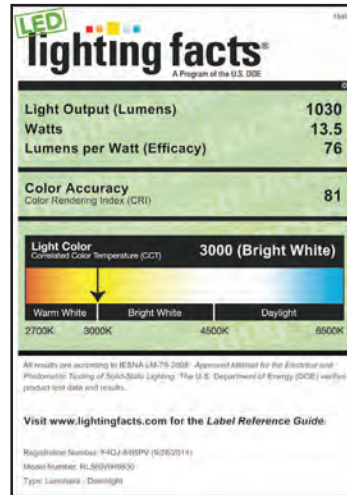
Juno®, Capri Lighting, Lightolier®, Lithonia Lighting®, Thomas® Lighting, Elco Lighting®, Progress® Lighting, Prescolite® and Commercial Electric™ and their product brand names, where identified above, are tradenames or trademarks of each respective company and Cooper makes no representations on these trademarks.

**LIGHTING FACTS**

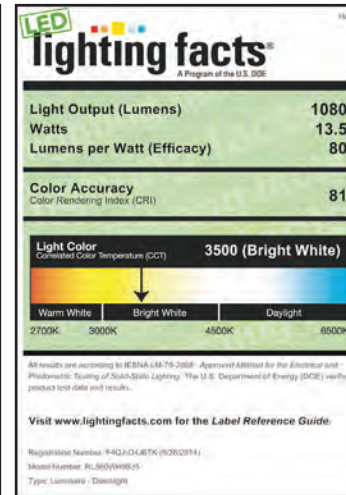
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2700K Source



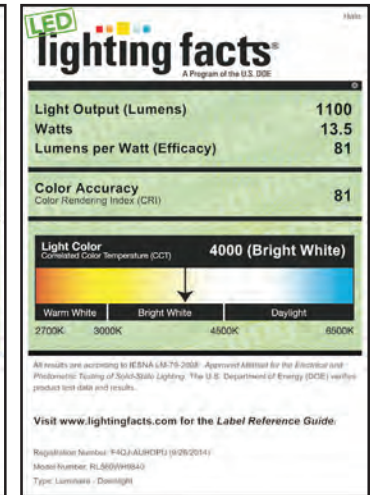
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3000K Source



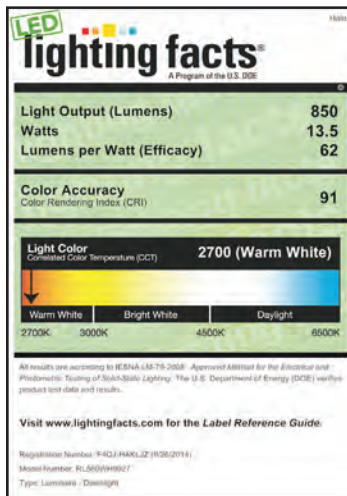
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3500K Source



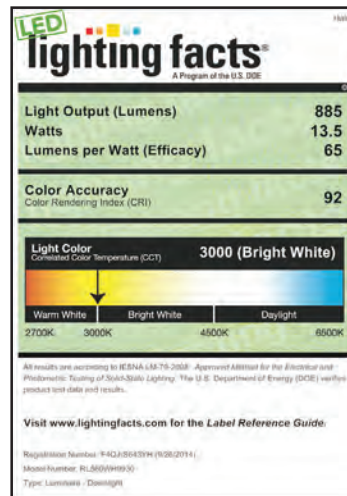
**RL560WH9840**  
4000K Source



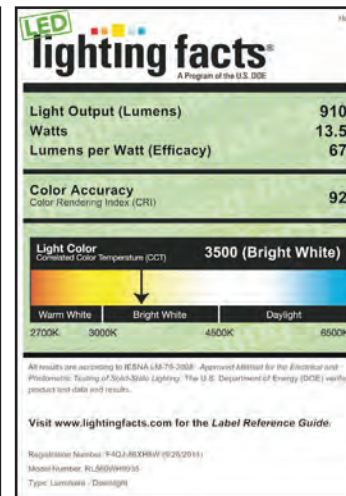
**RL560WH9927**  
2700K Source



**RL560WH9930**  
3000K Source



**RL560WH9935**  
3500K Source



**RL560WH9940**  
4000K Source

