DESCRIPTION

The Halo RL4 series is a retrofit LED Baffle-Trim Module for 4" aperture recessed downlights. The RL4 is designed for use with compatible 4" housings. The RL4 integral LED driver is dimmable at 120 volts. The RL4 lens provides uniform illumination and wet location listing. The RL4 die-cast construction makes any housing AIR-TITE for added HVAC savings and code compliance.

Catalog #	Туре
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 finish options
 - Matte White paint finish (WH)
 - Satin Nickel plated finish (SN)

Lens

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

MOUNTING Friction Blades

- Precision formed spring blades secure module to compatible housings.
- Friction blade design allows the RL4 to be installed in any position within the housing aperture (360 degrees).

Housing Compatibility

See Housing Compatibility section.

LED

- ColorTemperature (CCT)[†]
 Options: 2700K, 3000K, and
 3500K
- Color Rendering Index (CRI)[†]
 Options: 80 and 90
- LED is a chip on board design consisting of a multiple LED package with proximity phosphor coating to create one virtual white light source for a productive "cone of light"

ELECTRICAL Power Connections

- LED connector is a non-screw base luminaire disconnect offering easy installation with the matching Halo H995 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 RL4 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, lowTHD, and has integral thermal protection in the event of over temperature or internal failure.
- Driver mounts externally to the module, allowing future replacement, if needed.

Dimming

The Halo RL4 LED is designed for dimming capability to 10% in normal operation with standard 120V LED-Rated, electronic low voltage, and many incandescent dimmers. The LED module may also dim to 5% nominal using dimmers with low end trim adjustment. (Consult dimmer manufacturer for dimmer details. Note, some dimmers require a neutral in the wallbox.)

Warranty

Cooper Lighting provides a five year limited warranty on the RL4 LED.

COMPLIANCE Labels

- UL/cUL Listed 1598 Luminaire (with listed housings)
- UL/cUL Listed for Damp Location
- UL/cUL Listed for Wet Location – Shower Applications
- IP65 Ingress Protection rated
- May be installed in housings in direct contact with airpermeable insulation** and combustible material

Qualification

- ENERGY STAR® qualified residential and commercial*
- Can be used for State of California Title 24 high efficacy luminaire compliance*
- Can be used for Washington State Energy Code (WSEC) and International Energy Conservation Code (IECC) high efficacy luminaire compliance

IC and AIR-TITE™

Certified under ASTM-E283 and listed UL/cUL 1598 with compatible housings, may be used to meet insulated ceiling** and restricted air-flow requirements such as:

- Washington State Energy Code (WSEC)
- International Energy Conservation Code (IECC)
- New York State Energy Conservation Construction Code (NY-ECCC)
- State of California Title 24 "Recessed Luminaires in Insulated Ceilings."





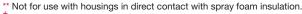




* Qualified and compliant. Refer to ENERGY STAR® Qualified Products List and CEC (T24) Appliance Database for listings.







[†] See ordering information table for available models.



RL460WH[†]

White



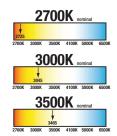
RL460SN[†] Satin Nickel

80CRI 2700K, 3000K and 3500K 90CRI 2700K, 3000K and 3500K

> 4-Inch LED Recessed Retrofit Module-Trim

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

HIGH EFFICACY LED WITH INTEGRAL DRIVER - DIMMABLE



ADV131345 November 15, 2013 10:57 AM



LIGHTING FACTS

RL460WH827PK

2700K Source



RL460WH830PK

3000K Source



RL460WH835PK 3500K Source

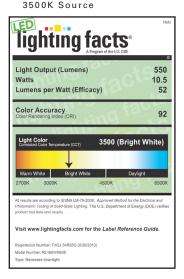


RL460WH930PK

3000K Source



RL460WH935PK



RL460SN830PK

3000K Source



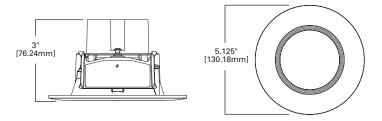
Watts	ut (Lumens) er Watt (Effic			550 10.5 52
Color Accu Color Rendering	Iracy Index (CRI)	ine	(ac	81
Light Color Correlated Color	femperature (CCT)	3000 (Bright W	hite)
Warm White 2700K 30	Bright Whit	e 4500K	Daylight	6500K
Warranty**	s V		aG	Yes
Approved Method fo	D Lumen Maintenance or the Electrical and Pho of Energy (DOE) ver	stometric Testing o	/ Solid-State Light	

ENERGY DATA

Energy Data (Typical)				
Min. Starting Temp -30°C (-22°F)	Sound Rating: Class A			
EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer)				
Input Frequency: 50/60Hz	Input Voltage: 120V			
THD: <20%	Power Factor: >0.90			
Input Power: 9.0W - 10.5W (per CRI and CCT)	Input Current: 0.075A - 0.0875A (per input power)			
Driver-Safety Agency Approvals: UL60950-1 Recognized, LPS output UL8750 Compliant				
Maximum IC (Insulated Ceiling) Ambient Continuous Operating Temperature: 25°C (77°F)				
Maximum Non-IC (NON-Insulated Ceiling) Ambient Continuous Operating Temperature: 40°C (104°F)				



DIMENSIONS



ORDERING INFORMATION

RL4 LED Module

SAMPLE NUMBER: RL460WH827PK

Complete unit includes RL4 LED and Halo H995 series LED housing, or compatible 4" E26 screw based housing (see: Housing Compatibility). RL4 LED and housing to be ordered separately.

RL460WH Models

80 CRI

RL460WH827PK= 4" LED Retrofit Module with regressed baffle and lens, White Baffle and Ring, 80 CRI, 2700K RL460SN827PK= 4" LED Retrofit Module with regressed baffle and lens, Satin Nickel Baffle and Ring, 80 CRI, 2700K RL460WH830PK= 4" LED Retrofit Module with regressed baffle and lens, White Baffle and Ring, 80 CRI, 3000K RL460SN830PK= 4" LED Retrofit Module with regressed baffle and lens, Satin Nickel Baffle and Ring, 80 CRI, 3000K RL460SWH835PK= 4" LED Retrofit Module with regressed baffle and lens, White Baffle and Ring, 80 CRI, 3500K

90 CRI

RL460WH927PK= 4" LED Retrofit Module with regressed baffle and lens, White Baffle and Ring, 90 CRI, 2700K RL460SN927PK= 4" LED Retrofit Module with regressed baffle and lens, Satin Nickel Baffle and Ring, 90 CRI, 2700K RL460WH930PK= 4" LED Retrofit Module with regressed baffle and lens, White Baffle and Ring, 90 CRI, 3000K RL460SN930PK= 4" LED Retrofit Module with regressed baffle and lens, Satin Nickel Baffle and Ring, 90 CRI, 3000K RL460SN930PK= 4" LED Retrofit Module with regressed baffle and lens, White Baffle and Ring, 90 CRI, 3500K

Accessories (order separately)

HE26LED=Replacement screw base adapter (one included with unit)

LED Housing

Series

H995ICAT= 4" Dedicated LED Insulated Ceiling, AIR-TITE New Construction Housing with LED luminaire connector (high efficacy compliant) H995RICAT= 4" Dedicated LED Insulated Ceiling, AIR-TITE Remodel Housing with LED luminaire connector (high efficacy compliant)

HOUSING COMPATIBILTY - E26 SCREW BASE RETROFIT

RL460WH / RL460SN				
UL Listed UL/cUL Listed for installation in the following Halo	All-Pro™	ET400ATSB, ET400RATSB, EI400ATSB		
and All-Pro 4" recessed E26 screw based and LED dedicated housings.	Halo [®]	H99ICAT, H99RTAT, H99TAT, H995ICAT, H995RICAT		
	Utilitech	CR04ICAT		
	Thomas®	PS4		
UL Classified UL Classified for retrofit in the following 4" recessed E26 screw based housings.	Lithonia Lighting®	L3, L3R		
	Commercial Electric [™]	HBR2000B		
_	Juno®	TC1, TC1R		
	Progress Lighting®	P830-TG, P832-TG		

Juno®, Lithonia Lighting®, Thomas® Lighting, Progress® Lighting, Utilitech, 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.



Note: Specifications and Dimensions subject to change without notice.