HALO

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.

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
- Color Temperature (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, low THD, 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 air-permeable 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."

RL460WH†
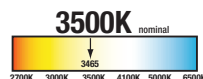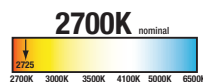**White**

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

2700K nominal
2725
2700K 3000K 3500K 4100K 5000K 6500K

3000K nominal
3045
2700K 3000K 3500K 4100K 5000K 6500K

3500K nominal
3465
2700K 3000K 3500K 4100K 5000K 6500K

ENERGY STAR

Can be used for **IECC** International Energy Conservation Code High Efficacy Compliance

Can be used for **T24** California Title 24 High Efficacy Compliance

Can be used for **WSEC** Washington State Energy Code High Efficacy Compliance

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

air-tite™

RoHS Compliant

COOPER Lighting

** Not for use with housings in direct contact with spray foam insulation.
† See ordering information table for available models.

LIGHTING FACTS

RL460WH827PK
2700K Source

RL460WH830PK
3000K Source

RL460WH835PK
3500K Source
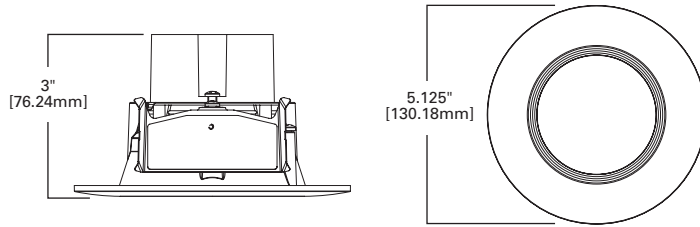
RL460WH930PK
3000K Source

RL460WH935PK
3500K Source

RL460SN827PK
2700K Source

RL460SN830PK
3000K Source

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)	

COOPER Lighting
www.cooperlighting.com

DIMENSIONS

3"
[76.24mm]

5.125"
[130.18mm]

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
RL460WH835PK= 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
RL460WH935PK= 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 and All-Pro 4" recessed E26 screw based and LED dedicated housings.	All-Pro™	ET400ATSB, ET400RATSB, EI400ATSB
	Halo®	H99ICAT, H99RTAT, H99TAT, H995ICAT, H995RICAT
UL Classified UL Classified for retrofit in the following 4" recessed E26 screw based housings.	Utilitech	CR04ICAT
	Thomas®	PS4
	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.

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