

## DESCRIPTION

The Halo RL406830WH is a retrofit LED Module-Trim for 4" aperture recessed downlights. The RL406830WH is designed for use with compatible 4" housings including the Halo H99, H995 series and All-Pro ET/EI400 series. The RL4 with integral LED driver offers 120 volt dimming capability. 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 #		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
- 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

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

### MOUNTING

#### Friction Blades

- Precision formed stainless steel 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

- 637 lumens
- Color Temperature: 3000°K
- CRI: 83
- Lumen Maintenance: L70/50 70% lumens / 50,000 hours
- Efficacy 46 Lumens per Watt
- LED is a chip on board design consisting of a multiple LED package with proximity phosphor coating to create one virtual warm 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 is specifically designed for compatibility with RL4 series LED.
- Driver mounts externally to the module, allowing future replacement, if needed.

### Dimming

- The Halo RL4 LED is designed for dimming capability to 15% in normal operation with standard 120V LED-Rated, electronic low voltage, and many incandescent dimmers. The LED module may also dim to <10% 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 three 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
- May be installed in housings in direct contact with air-permeable insulation and combustible material

### Qualification

- ENERGY STAR® qualified
- Can be used for State of California Title 24 high efficacy luminaire compliance
- Can be used for 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
- International Energy Conservation Code (IECC)
- New York State Energy Conservation Construction Code (NY-ECCC)
- State of California Title 24 "Recessed Luminaires in Insulated Ceilings."



## RL406830WH

**4-Inch LED  
Recessed Retrofit  
Module-Trim  
with LED Connector  
and E26 Medium  
Screw-base Adapter**

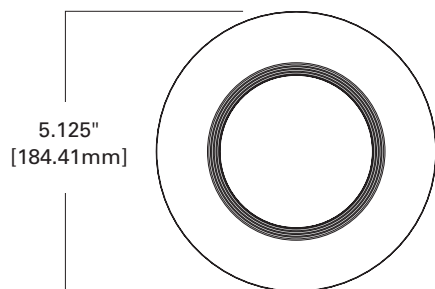
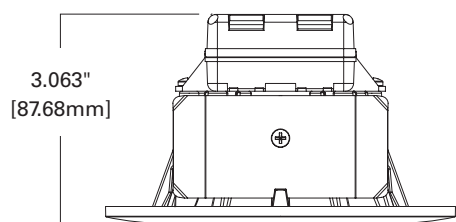
**FOR USE IN  
INSULATED CEILING  
AND NON-INSULATED  
CEILING RATED  
HOUSINGS**

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

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
Rated Wattage: 14W max.	Input Power: 13.7W
	Input Current: 1250mA
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)	
LED Lighting Data	
Lumens: 637	Lumens per watt: 46
Correlated Color Temperature (CCT): 3000K	
Color Rendering Index (CRI, Ra): 83	



**DIMENSIONS**



**LED lighting facts**<sup>®</sup>  
A Program of the U.S. DOE

Halo

<b>Light Output (Lumens)</b>	<b>637</b>
<b>Watts</b>	<b>13.7</b>
<b>Lumens per Watt (Efficacy)</b>	<b>46</b>

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<b>Color Accuracy</b> Color Rendering Index (CRI)	<b>83</b>
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<b>Light Color</b> Correlated Color Temperature (CCT)	<b>3019 (Bright White)</b>
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2700K    3000K    4500K    6500K

Warm White    Bright White    Daylight

All results are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit [www.lightingfacts.com](http://www.lightingfacts.com) for the Label Reference Guide.

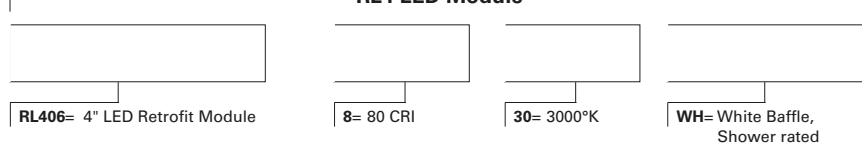
Registration Number: XCJ7-Y7KBKW (1/23/2012)  
Model Number: RL406830WH  
Type: Recessed downlight

**ORDERING INFORMATION**

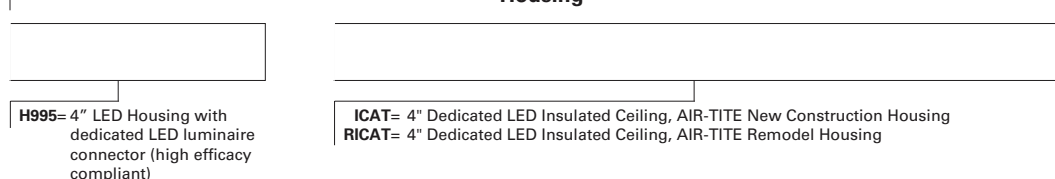
**SAMPLE NUMBER: RL406830WH**

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

**RL4 LED Module**



**Housing**



**HOUSING COMPATIBILITY - E26 SCREW-BASE RETROFIT**

UL/cUL Listed for installation in the following Halo and All-Pro 4" recessed E26 screw-based housings:

**HALO:** H99ICAT, H99RTAT, H99TAT

**All-Pro:** EI400ATSB, ET400ATSB

UL Classified for retrofit in the following 4" recessed E26 screw-based housings:

**Lithonia:** L3, L3R

**Thomas:** PS4

**Utilitech:** CR04ICAT

Note: Specifications and Dimensions subject to change without notice.

Visit our web site at [www.cooperlighting.com](http://www.cooperlighting.com)