HALO LED H4 Series - 2nd Generation

The Halo H4 LED is a family of 4" aperture recessed downlight H457 series of housings designed for exclusive use with Halo EL406, ELG406, ELSG406 Series LED Light Engines and compatible TL4 and TLS4 LED trims. Halo H4 LED housings have integral LED drivers that offer dimming as a standard feature.

This is an insulated ceiling*, AIR-TITE™, remodel housing offering 120 volt dimming capability. The H4 LED series offers high quality downlighting along with high efficacy – the result being great lighting and significant energy savings.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

DESIGN FEATURES

MECHANICAL

Housings

Single wall formed aluminum construction. Openings are gasketed for AIR-TITE installation. 5 1/2" height allows use in 2"x 6 joist construction. AIR-TITE aperture gasket is pre-installed.

Remodel Arm

 Spring steel construction designed for ease of installation and ceiling support of LED driver.

MOUNTING

Remodel Springs

 Four remodel clips secure housing and accommodate 1/2" and 5/8" ceiling material.

ELECTRICAL

Junction Box

- Seven 1/2" trade size conduit knockouts with true pry-out slots
- Slide-N-Side[™] connectors allow non metallic sheathed cable to be installed without tools and without removing knockouts.
- Accepts a wide range of non-metallic sheathed cables
 - The standard cable types used in lighting in both U.S. and Canada.
 - Allows wiring connections to be made outside the junction box.
- Simply insert the cable directly into the trap after connections are made.
- Accommodates the following standard nonmetallic sheathed cable types: US: #14/2, #14/3, #12/2, #12/3

Canada: #14/2, #14/3, #12/2

LED Light Engine Connection

- LED connector is a non-screw base connector offering easy installation with the H4 LED 2nd Generation EL406, ELG406, ELSG406 Series LED Light Engines.
- LED connector meets highefficacy luminaire requirement for a non-screw base socket, and where required to qualify as a high-efficacy luminaire (California Title-24).

LED Driver

- LED dimmable driver mounts to the housing junction box.
- Driver is a 120 Volt, high efficiency, electronic power supply providing low voltage power to EL Series LED Light Engines.
- Driver meets FCC EMI/RFI Consumer Level limits for use in residential and commercial installations.
- Driver features power factor >.90, THD <20% and has integral thermal protection in the event of over temperature or internal failure.
- Driver is specifically designed for compatibility with EL406 LED Light Engines, and ELG406, ELSG406 Adjustable Gimbal Light Engine / Trims.
- If dimming is not required the fixture can be operated from a standard wall switch.

Dimming

The HALO H4 LED luminaire is designed for dimming capability to 10% in normal operation with most 120V leading edge (LE) and trailing edge (TE) phase control dimmers. H4 LED may also dim to 5% using dimmers with low end trim adjustment. (Consult dimmer manufacturer for application/compatibility/ loading. Note, some dimmers require a neutral in the wallbox).

Warrantv

Cooper Lighting Solutions provides a five year limited warranty on Halo LED Luminaires which includes the LED Recessed Housing, LED Light Engine, and LED trims.

Labels

- UL/cUL Listed 1598 Luminaire
- UL/cUL Listed for Damp Location
- UL/cUL Listed for Wet Location, covered ceiling with select trims
- UL/cUL listed for Direct Contact with insulation and combustible material*

Qualifications

- ENERGY STAR® Certification.**
- Use with designated LED light engines and trims for State of California Title 24 high efficacy luminaire compliance**
- Can be used for International Energy Conservaction Code (IECC) high efficacy luminaire compliance

IC and AIR-TITE™

Certified under ASTM-E283 and listed UL/cUL 1598. May be used to meet insulated ceiling and restricted air-flow requirements such as:

- International Energy Conservation Code (IECC)
- State of California Title 24
 "Recessed Downlight Luminaires
 in Ceilings."



H457RICAT1E

HALO®

4-Inch LED Recessed Remodel Housing Insulated Ceiling

High Efficacy LED Housing-Dimmable

FOR USE IN INSULATED CEILINGS FOR DIRECT CONTACT WITH INSULATION*

ALSO SUITABLE FOR NON-IC APPLICATIONS

H4 Series LED Energy Data:

(Values at non-dimming line voltage.)
Minimum Starting Temp:
-30°C (-22°F)

EMI/RFI: FCC Title 47 CFR, Part 18, (Consumer)

Sound Rating: Class A standards Input Voltage: 120V Power Factor: >0.90 Input Frequency: 50/60Hz THD: <20%

Input Power: 13W Input Current: 120mA Driver Compliance: UL8750,

Class II rated
Maximum IC (Insulated Ceilng)
Ambient Continuous Operating Room
Temperature: 25°C (77°F)

Maximum Non-IC (Non-Insulated Ceilng) Ambient Continuous Operating Room Temperature: 40°C (104°F)







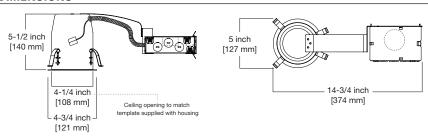






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DIMENSIONS



ORDERING INFORMATION - H4 LED Downlights

SAMPLE NUMBER: H457RICAT1E - EL406927 - TL410SC

Complete unit includes LED housing, light engine and trim; ordered separately.

H4 LED Housing			H4 LED Light Engine		
			EL406	CRI	CCT
H457 = 4" housing H4 LED series downlight 2nd Generation	RICAT = Remodel, Insulated Ceiling, AIR-TITE	1E = LED driver, 120V, 50/60 Hz, dimmable, LE/TE* phase control dimmers (refer to dimmer manufacturer).	EL406 = 4" LED Downlight Engine, 2nd Generation	9 = 90 CRI	27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K

Shower Rated

	diffiller manufacturer).	40 = 4000K
Т	rim Options	Accessories
TL410SC = Specular Clear Reflector, Diffuse Polymer Dom Lens, White Ring, Shower Rated TL410H = Haze Reflector, Diffuse Polymer Dome Lens, Wh Ring, Shower Rated TL410WH = White Reflector, Diffuse Polymer Dome Lens, VRing, Shower Rated TL410SN = Satin Nickel Reflector, Diffuse Polymer Dome Lens, Valor Nickel Ring, Shower Rated TL410TBZ = Tuscan Bronze Reflector, Diffuse Polymer Dome Lens, Tuscan Bronze Ring, Shower Rated TL410SBK = Specular Black Reflector, Diffuse Polymer Dome Lens, White Ring, Shower Rated TL411WB = White Baffle, Diffuse Polymer Dome Lens, White Ring, Shower Rated TL411BB = Black Baffle, Diffuse Polymer Dome Lens, White Ring, Shower Rated TL402SCS = Specular Clear Reflector, Solite® Glass Lens, White Ring, Shower Rated	Tuscan Bronze Ring, Shower Rated TL402SBKS = Specular Black Reflector, So and White Ring, Shower Rate White TL403WBS = White Baffle, Solite® Glass Let Shower Rated Lens, TL403BBS = Black Baffle, Solite® Glass Len Shower Rated TL403BBS = Black Baffle, Solite® Glass Len Shower Rated TL5408WHWB = Square Baffle Trim, Solite® Ring with White Baffle, Shower Rated TL5408WHBB = Square Baffle Trim, Solite® Ring with Black Baffle, Shower Rated TL5408SNBB = Square Baffle Trim, Solite® Nickel Ring with Black Baffle, Shower Rated TL5408TBZBB = Square Baffle Trim, Solite® Ring with Black Baffle, Shower Rated TL5408TBZBB = Square Baffle Trim, Solite® Ring with Black Baffle, Shower Rated TL5408TBZBB = Square Baffle Trim, Solite® Ring with Black Baffle, Shower Rated	For use with Round TL4 trims (not compatible with Square TLS4 trims, or adjustable gimbals ELG, ELSG trims.) TRM400WH = White TRM400WH = White TRM400WH = Black TRM400WH = Black TRM400TBZ = Tuscan Bronze TRM400TBZ = Tuscan Bronze TRM400PC = Polished Chrome © Glass Lens, White © Glass Lens, Satin de ear Reflector with

Shower Rated

TL402WHS = White Reflector, Solite® Glass Lens, and White Ring, Shower Rated

TL402SNS = Satin Nickel Reflector, Solite® Glass Lens, and Satin Nickel Ring, Shower Rated

ORDERING INFORMATION - H4 LED Adjustable Gimbals

SAMPLE NUMBER: H457RICAT1E - ELG406930WH

Complete unit includes LED housing, light engine and trim; ordered separately.

H4 LED Light Engine				Optional Accessory Reflector Kit	Optional Len Media	
	CRI	ССТ	Finish	(order separately)		
ELG406 = Round LED Adjustable Gimbal Light Engine - 2nd Generation ELSG406 = Square LED Adjustable Gimbal Light Engine - 2nd Generation	9 = 90 CRI	27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K	WH = White SN = Satin Nickel TBZ = Tuscan Bronze	TL412RK includes: • 25° reflector (one is included with gimbal) • 35° reflector • 50° reflector TL412RK is for use with ELGxx and ELSGxx gimbals only.	One lens media may be used in place of clear lens. Optical Lenses • L110 Diffuse Sand Blasted Lens • L111 Soft Focus Textured Lens • L113 Prismatic Lens • L115 Linear Spread Lens Dichroic Color Films • L114 UV Filter • L120 Red • L121 Amber • L122 Green • L124 Daylight • L125 Blue • L125 Blue • L127 Cosmetic Color Filters • L130 Yellow	

TL422PS = Polymer "Dead Front" White Baffle & Regressed Lens, White Ring, Shower Rated

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 $^{^{\}star}$ LE = Leading Edge (forward phase control) dimming * TE = Trailing Edge (reverse phase control) dimming