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 4" TL4 and TLS4 LED trims. Halo H4 LED housings have integral LED drivers that offer dimming as a standard feature.

This is a Non-IC, AIR-TITE™ housing for non-insulated ceiling installations, universal voltage 120V-277V input, and dimming with either 120V phase control dimmers, or 0-10V DC control systems. 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

(A) Housings

- · Single wall die-formed construction.
- · Openings are gasketed for AIR-TITE installation.

(B) Plaster Frame

- · Galvanized steel die-formed construction.
- · Housing can be removed from plaster frame for access to iunction box.
- · Housing adjusts for ceilings up to 1-1/8" thickness.
- · Plaster frame designed with removable bar hangers for installation in new construction.
- · HALO identity embossed on plaster frame.

MOUNTING

(C) GOT NAIL! Pass -N-Thru™ **Bar Hangers**

Bar Hanger Features include:

- · Pre-installed nail easily installs in regular lumber, engineered lumber and laminated beams.
- · Safety and guidance system prevents snagging, ensures smooth straight nail penetration and allows bar hangers to be easily removed if necessary.
- · Automatic leveling flange aligns the housing and lets you hold the housing in place with one hand while driving nails.
- · Housing can be positioned at any point within 24" joist span.
- · Score lines allow "tool-less" shortening for 12" joists.
- · Bar hangers may be repositioned 90°.
- · Bar hangers do not need to be removed from frame for shortening.
- Integral T-bar clips snaps onto T-bars - no additional clips required.

ELECTRICAL

(D) Junction Box

- · Positioned to accommodate straight conduit runs.
- 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 nonmetallic 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

(E) 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).

(F) LED Driver

- · LED dimmable driver mounts to the housing junction box.
- Driver is a120V-277V Universal Voltage, 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 high power factor and THD, and has integral thermal protection in the event of over temperature or internal
- 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 - Phase Control

• 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. (Consult dimmer manufacturer for application/ compatibility/loading. Note, some dimmers require a neutral in the wallbox).

Dimming - 0-10V

- Dimmable to 10% in typical operation with compatible 0-10V DC low voltage dimmers.
- 0-10V DC dimmers operate using two low voltage dimming wires (color coded violet and gray). The low voltage dimming wires are separate from the 120V AC or 277V AC power.
- · Switching on/off is controlled via the line voltage (120V AC or 277V AC) power, and dimming is controlled via the 2-wire 0-10V DC low voltage wiring.

Warranty

Eaton 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

Qualifications

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

AIR-TITE™

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



HALO®

H457TATE010

4-Inch LED Recessed **Housing New Construction Non-Insulated Ceiling**

High Efficacy LED Housing - Dimmable

> FOR USE IN NON-INSULATED CEILINGS

CAN BE USED IN **INSULATED CEILINGS BUT INSULATION MUST** BE KEPT 3" FROM ALL SIDES OF THE HOUSING

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-277V

Power Factor: >0.90

Input Frequency: 50/60Hz

THD: <25%

Input Power: 13W

Input Current: 121mA

Driver Compliance: UL8750,

Class II rated

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











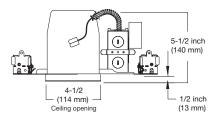
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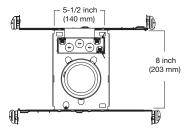
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DIMENSIONS





ORDERING INFORMATION - H4 LED Downlights

SAMPLE NUMBER: H457TATE010 - EL406927 - TL410SC

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

H4 LED Housing			H4 LED Light Engine		
			EL406	CRI	ССТ
H457 = 4" housing H4 LED series downlight, 2nd Generation	TAT = New Construction Non-Insulated Ceiling, AIR-TITE	E010 = LED driver, 120V-277V, 50/60 Hz, dimmable with 120V LE/TE* phase control dimmers or 0-10V DC dimming controls (refer to dimmer manufacturer)	EL406 = 4" LED Downlight Engine, 2nd Generation	9 = 90 CRI	27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K

TL410SC = Specular Clear Reflector, Diffuse Polymer Dome Lens, White Ring, Shower Rated

TL410H = Haze Reflector, Diffuse Polymer Dome Lens, White Ring, Shower Rated

TL410WH = White Reflector, Diffuse Polymer Dome Lens, White Ring, Shower Rated

TL410SN = Satin Nickel Reflector, Diffuse Polymer Dome Lens, Satin 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, and White Ring, Shower Rated

TL402HS = Haze Reflector, Solite® Glass Lens, and White Ring, 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

TL402TBZS = Tuscan Bronze Reflector, Solite® Glass Lens, and Tuscan Bronze Ring, Shower Rated

TL402SBKS = Specular Black Reflector, Solite® Glass Lens, and White Ring, Shower Rated

TL403WBS = White Baffle, Solite® Glass Lens, and White Ring, Shower Rated

TL403BBS = Black Baffle, Solite® Glass Lens, and White Ring, Shower Rated

TLS408WHWB = Square Baffle Trim, Solite® Glass Lens, White Ring with White Baffle, Shower Rated TLS408WHBB = Square Baffle Trim, Solite® Glass Lens, White

Ring with Black Baffle, Shower Rated

TLS408SNBB = Square Baffle Trim, Solite® Glass Lens, Satin Nickel Ring with Black Baffle, Shower Rated

TLS408TBZBB = Square Baffle Trim, Solite® Glass Lens, Tuscan Bronze Ring with Black Baffle, Shower Rated TL409WW = Wall Wash, Semi-Specular Clear Reflector with

White Ring, Shower Rated TL409WHWW = Wall Wash, White Reflector with White Ring, Shower Rated

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

For use with Round TL4 trims (not compatible with Square TLS4 trims, or adjustable gimbals ELG. ELSG trims.)

TRM400WH = White TRM400BK = Black TRM400SN = Satin Nickel TRM400TBZ = Tuscan Bronze TRM400PC = Polished Chrome

Thin Profile Designer Trim Rings

LE = Leading Edge (forward phase control) dimming

* TE = Trailing Edge (reverse phase control) dimming

ORDERING INFORMATION - H4 LED Adjustable Gimbals

SAMPLE NUMBER: H457TATE010 - 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 ELS6406 = 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 Yellow • L123 Green • L124 Daylight • L125 Blue • L127 Cosmetic Color Filters • L130 Yellow

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