H4 Series - 2nd Generation

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

This is an insulated ceiling* AIR-TITE™ 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.

Туре
Date

DESIGN FEATURES

MECHANICAL

Housings

- Enclosure of formed aluminum construction.
- Openings are gasketed AIR-TITE.
- Designed for insulated ceilings in direct contact with insulation.* (May also be installed in non-insulated ceilings.)

Plaster Frame

- Galvanized steel die-formed construction.
- The collar can be removed from plaster frame to provide access to the junction box.
- Collar adjusts for ceilings up to 1-1/2" thick.
- Plaster frame features include:
 - Patented regressed locking screw positioned for securing hanger bars from below the ceiling.
 - Cutouts for easily crimping hanger bars in position.
 - AIR-TITE aperture gasket is pre-installed.
 - identity embossed on plaster frame.

GOT NAIL! Pass -N-Thru™ Bar Hangers

- 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.
- Pass-N-Thru[™] feature allows bar hangers to be shortened without removing from plaster frame.
- Score lines allow "tooless" shortening for 12" joists.
- Bar hangers may be repositioned 90°
- Integral T-bar clip snaps onto T-bars - no additional clips required.

Slide-N-Side™ Junction Box

- Positioned to accommodate straight conduit runs
- Seven 1/2" trade size conduit knockouts with true pry-out slots
- Slide-N-Side™ wire traps allow non-metallic sheathed cable to be installed without tools and without removing knockouts.
- Accepts a wide range of non-metallic (type NM) 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 non-metallic sheathed cable sizes:
 (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 high-efficacy luminaire requirement for a non-screw base socket, and where required to qualify as a highefficacy luminaire. (California Title-24)

LED Driver

- LED dimmable driver mounts to the housing.
- Driver is a120 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 high power factor and low THD 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 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).

Warranty

provides a five year limited warranty on 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

- Use with designated LED light engines and trims for ENERGY STAR® qualification.**
- 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 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:

- 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."



H457ICAT1E

4-Inch LED Recessed Housing New Construction 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: 121mA

Driver Compliance: UL6950, LPS rated
Maximum IC (Insulated Ceiling)
Ambient Continuous Operating Room

Temperature: 25°C (77°F)

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

Use with designated LED modules and trims for ENERGY









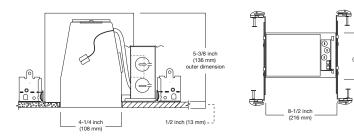
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*Not for use with housings in direct contact with spray foam insulation.

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

DIMENSIONS



ORDERING INFORMATION - H4 LED Downlights

SAMPLE NUMBER: H457ICAT1E - 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	ICAT = New Construction 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

	dimmer manufacturer).	40 = 4000K
	II I	
Trim (Options	Accessories
TL410SC = Specular Clear Reflector, Diffuse Polymer Dome Lens, White Ring, Shower Rated	TL402TBZS = Tuscan Bronze Reflector, Solite® Glass Lens, Tuscan Bronze Ring, Shower Rated	For use with Round TL4 trims (not compatible
TL410H = Haze Reflector, Diffuse Polymer Dome Lens, White Ring, Shower Rated	TL402SBKS = Specular Black Reflector, Solite® Glass Lens and White Ring, Shower Rated	ELG, ELSG trims.)
TL410WH = White Reflector, Diffuse Polymer Dome Lens, White Ring, Shower Rated	TL403WBS = White Baffle, Solite® Glass Lens, and White Ri Shower Rated	TRM400BK = Black
TL410SN = Satin Nickel Reflector, Diffuse Polymer Dome Lens, Satin Nickel Ring, Shower Rated	TL403BBS = Black Baffle, Solite® Glass Lens, and White Rin Shower Rated	ng, TRM400SN = Satin Nickel TRM400TBZ = Tuscan Bronze TRM400PC = Polished Chrome
TL410TBZ = Tuscan Bronze Reflector, Diffuse Polymer Dome Lens, Tuscan Bronze Ring, Shower Rated	TLS408WHWB = Square Baffle Trim, Solite® Glass Lens, Wing with White Baffle, Shower Rated	
TL410SBK = Specular Black Reflector, Diffuse Polymer Dome Lens, White Ring, Shower Rated	TLS408WHBB = Square Baffle Trim, Solite® Glass Lens, Wh Ring with Black Baffle, Shower Rated	nite
TL411WB = White Baffle, Diffuse Polymer Dome Lens, White Ring, Shower Rated	TLS408SNBB = Square Baffle Trim, Solite® Glass Lens, Sat Nickel Ring with Black Baffle, Shower Rated	dn
TL411BB = Black Baffle, Diffuse Polymer Dome Lens, White Ring, Shower Rated	TLS408TBZBB = Square Baffle Trim, Solite® Glass Lens, Tu can Bronze Ring with Black Baffle, Shower Rated	-st
TL402SCS = Specular Clear Reflector, Solite® Glass Lens, and White Ring, Shower Rated	TL409WW = Wall Wash, Semi-Specular Clear Reflector with White Ring, Shower Rated	1
TL402HS = Haze Reflector, Solite® Glass Lens, and White Ring, Shower Rated	TL409WHWW = Wall Wash, White Reflector with White Ring Shower Rated	g,
TL402WHS = White Reflector, Solite® Glass Lens, and White Ring, Shower Rated	TL422PS = Polymer "Dead Front" White Baffle & Regressed Lens, White Ring, Shower Rated	Ł.
TL402SNS = Satin Nickel Reflector, Solite® Glass Lens, and Satin Nickel Ring, Shower Rated		

- * LE = Leading Edge (forward phase control) dimming
 * TE = Trailing Edge (reverse phase control) dimming

ORDERING INFORMATION - H4 LED Adjustable Gimbals

SAMPLE NUMBER: H457ICAT1E - 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 Yellow • L123 Green • L124 Daylight • L125 Blue • L127 Cosmetic Color Filters • L130 Yellow