HALO LED H4 Series

The Halo H4 LED is a family of 4" aperture recessed downlight housings designed for exclusive use with Halo EL4, ELG4, ELSG4 Series LED Light Engines and compatible 4" LED trims. Halo H4 LED housings have integral LED drivers that offer dimming as a standard feature.

H455RTUNVD010 is a Non-IC, AIR-TITE™ remodel housing designed for non-insulated ceiling installations, and offers dimming capability with 0-10VDC control systems. Designed for use with EL4 series LED Light Engines, and TL4, TLS4 LED Series Trims; and ELG4, ELSG4 Adjustable Gimbal Light Engine/Trim combinations. The H455RTUNVD010 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 aluminum housing. 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.

(B) Remodel Arm

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

MOUNTING

(C) Remodel Springs

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

ELECTRICAL

(D) 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

(E) LED Connection

- LED connector is a non-screw base connector offering easy installation with the EL4, ELG4, ELSG4 Series LED Light Engines.
- 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.

(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 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 EL4 LED Light Engines, and ELG4, ELSG4 Adjustable Gimbal Light Engine / Trims; and operates the LED for long life, meeting 50,000 hour / 70% lumen maintenance standard.
- If dimming is not required the fixture can be operated from a standard wall switch

Dimmina

- Dimmable 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 operation is controlled with the 2-wire 0-10V DC low voltage wiring connection between the dimmer and the LED driver.

Warranty

Cooper Lighting provides a three 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

Compliance

- Use with designated LED light engines and trims for ENERGY STAR® qualification.
- Can be used for State of California Title 24 high efficacy compliance with designated LED light engines and trims.
- Can be used for International Energy Conservation Code (IECC) high efficacy compliance with designated LED light engines and trims.
- Refer to specification sheets online for compliance information.

Qualification

AIR-TITE™

Certified under ASTM-E283 and listed UL/cUL 1598. May be used to meet 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."



H455RTUNVD010

4-Inch LED Recessed Remodel Housing Non-Insulated Ceiling --With 4" LED Light Engines and 4" LED Trims

> High Efficacy LED Housing – Dimmable when used with 0-10VDC Controls

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)

EMI/RFI: FCC Title	: Class A standards : 120V-277V : >0.90 ncy: 50/60Hz <25%				
(Consumer)					
Sound Rating:	Class A standards				
Input Voltage:	120V-277V				
Power Factor:					
Input Frequency:	50/60Hz				
THD:	<25%				
Rated Wattage:	15W max.				
Input Power:	13.9W				
Input Current:	121mA				
Driver Compliance	e: UL8750, Class				
II rotod					

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

H4 Series LED Summary Lighting Data:

Color

Correlated Color Temperature (CC

Temperature (CCT): 2700-4000K Color Rendering Index (CRI, R_a): 80

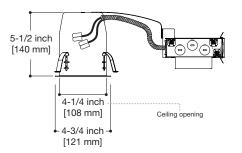


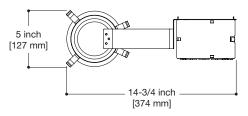






DIMENSIONS





Ceiling opening to match template supplied with housing

ORDERING INFORMATION - H4 LED Downlights

SAMPLE NUMBER: H455RTUNVD010 EL405827 TL400S0

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

H4 LED Housing —			H4 LED Light Engine ————				
H455 RT		UNVD010		EL4	05	8	27
H455= 4" Housing H4 LED Series Downlight RT= Remodel, NON-Insulated Ceilng, AIR-TITE		UNVD LED d 120V-: 50/60H Dimm 0-10V	river, 277V, Hz, able with	4" LED 550 80 CRI 30 =304 Downlight Design 35 =346			27 =2725°l 30 =3045°l 35 =3465°l 40 =3985°l
		dimm (see d applic notes, to dim manu	ing controls imming ation , and refer	* Lumen output range of 534-700 lumens (depending upon color temperature and trim)			

H4 LED Trim TL40x

TL400SC=Specular Clear Refector, White Trim Ring TL400H=Haze Reflector, White Trim Ring

TL400WH=White Reflector, White Trim Ring

TL400SBK=Specular Black Reflector, White Trim Ring

TL400SN=Satin Nickel Reflector, Satin Nickel Trim Ring

TL400TBZ=Tuscan Bronze Reflector, Tuscan Bronze Trim Ring

TL401WB=White Baffle, White Trim Ring

TL401BB=Black Baffle, White Trim Ring

TL402SCS=Specular Clear Reflector with Solite®Lens, White Trim Ring

TL402HS=Haze Reflector with Solite® Lens, White Trim Ring TL402WHS=White Reflector with Solite® Lens,

White Trim Ring

TL402SBKS=Specular Black Reflector with Solite®Lens, White Trim Ring

TL402SNS=Satin Nickel Reflector with Solite® Lens, Satin Nickel Trim Ring

TL402TBZS=Tuscan Bronze Reflector with Solite® Lens, Tuscan Bronze Trim Ring

TL403WBS=White Baffle with Solite® Lens, White Trim Ring TL403BBS=Black Baffle with Solite® Lens, White Trim Ring

TLS408WHWB=Square Baffle Trim with Solite® Regressed Lens, White Baffle, White Ring

TLS408WHBB=Square Baffle Trim with Solite® Regressed Lens, Black Baffle, White Ring

TLS408SNBB=Square Baffle Trim with Solite® Regressed Lens, Black Baffle, Satin Nickel Ring

TLS408TBZBB=Square Baffle Trim with Solite® Regressed

Lens, Black Baffle, Tuscan Bronze Ring
TL409WW=Wall Wash Downlight - Semi-Specular Clear

TL409WW=Wall Wash Downlight - Semi-Specular Clear Reflector with Specular Wall Wash Optic, Diffusing Lens and White Ring

TL409WHWW=Wall Wash Downlight - White Reflector with Specular Wall Wash Optic, Diffusing Lens and White Ring **TL422PS**=White Polymer Baffle and Ring, and Regressed Prismatic Polymer Lens. Shower Trim front is non-electrically conductive with "dead-front" polymer material.

Accessories

Designer Trim Rings, Thin Profile

For use with Round TL4 trims (not compatible with Square TLS4 trims).

TRM400WH=White, die-cast trim ring TRM400BK=Black, die-cast trim ring

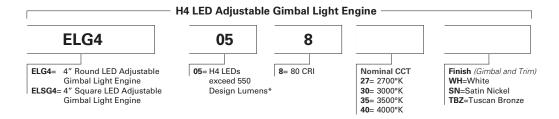
TRM400SN=Satin Nickel, die-cast trim ring TRM400TBZ=Tuscan Bronze, die-cast trim ring TRM400PC=Polished Chrome, die-cast trim ring



ORDERING INFORMATION - H4 LED Downlights

SAMPLE NUMBER: H455RTUNVD010 ELG405827TBZ

Complete unit includes H4 LED housing and Adjustable Gimbal Light Enginer, ordered separately. (Note H4 LED TL4xx Downlight Trims are not compatible with H4 LED ELG4xx Adjustable Gimbals.)



^{*} Lumen output of 598 lumens based upon 2700°K color temperature.

Optional Accessory Reflector Kit (ordered separately)

TL412RK includes:

- 25° reflector (one is included with gimbal)
- 35° reflector
- 50° reflector

TL412RK is for use with ELGxx and ELSGxx Gimbals only.

Optional Lens Media (ordered separately)

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

