

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.

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 a 120V-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

Dimming

- 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)	
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%
Rated Wattage:	15W max.
Input Power:	13.9W
Input Current:	121mA
Driver Compliance:	UL8750, Class II rated
Maximum Non-IC (Non-Insulated Ceiling)	
Ambient Continuous Operating Room	
Temperature: 40°C (104°F)	

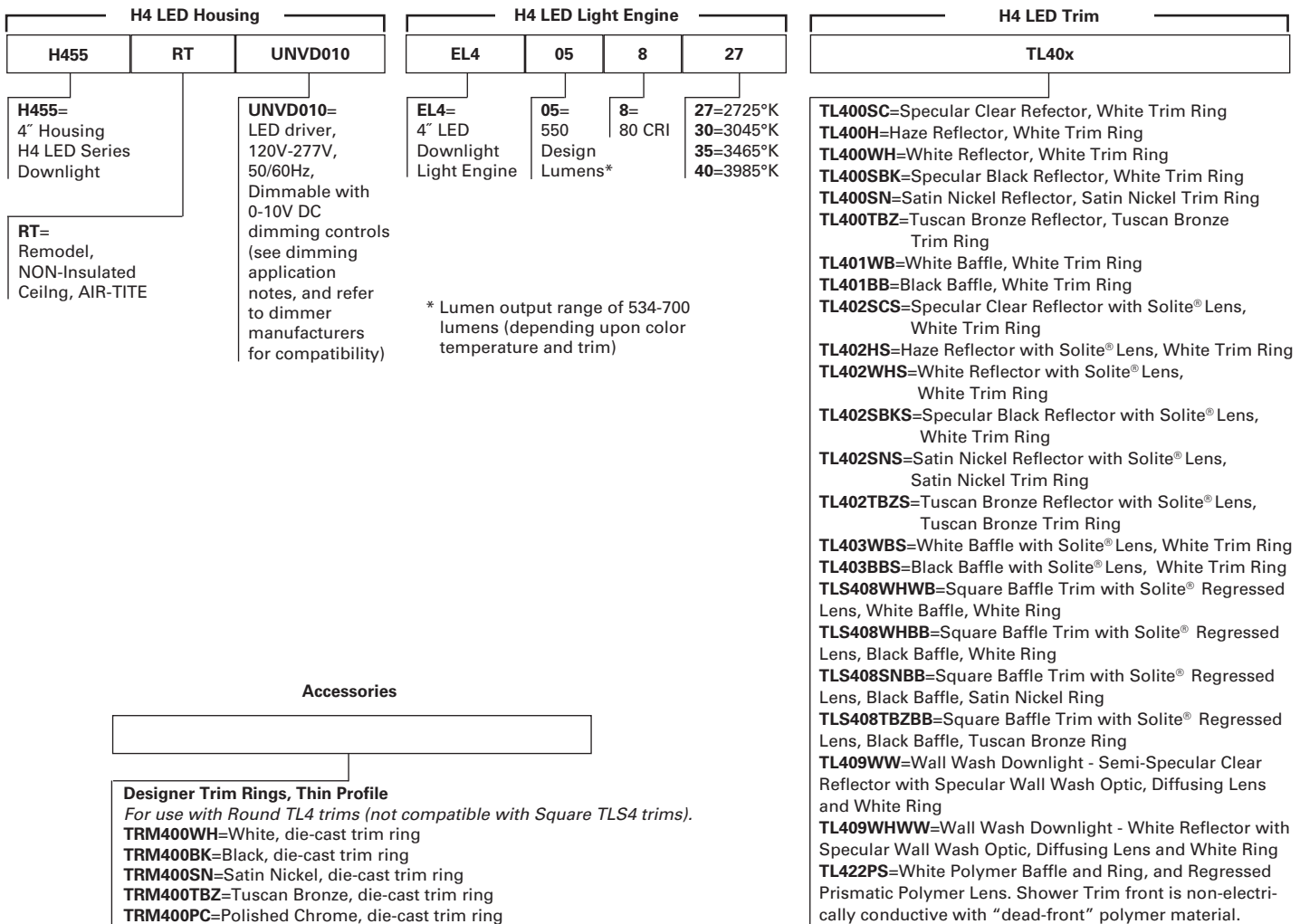
H4 Series LED

Summary Lighting Data:

Lumen range: 534-700
Lumens per watt: up to 46

Color

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

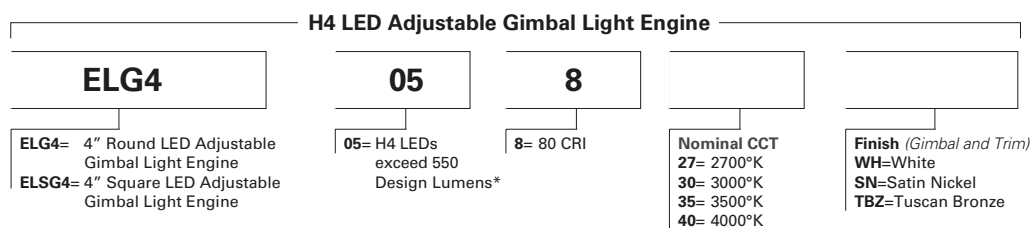


ORDERING INFORMATION - H4 LED Downlights

SAMPLE NUMBER: H455RTUNVD010 ELG405827TBZ

Complete unit includes H4 LED housing and Adjustable Gimbal Light Engine, 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