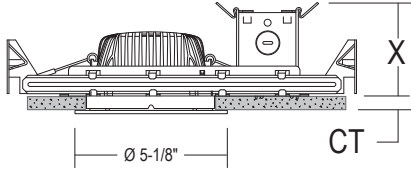
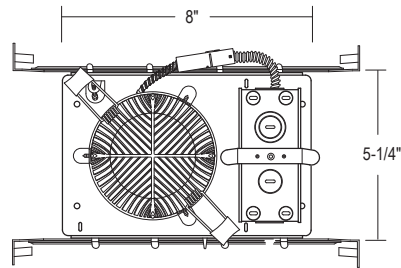


CH4SHL : 4" C-SERIES

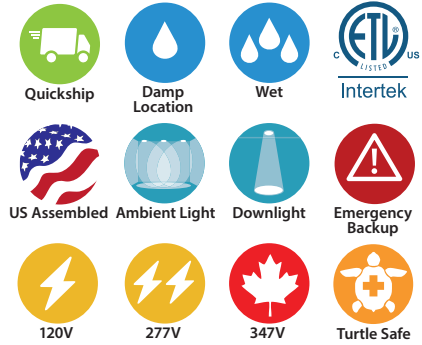
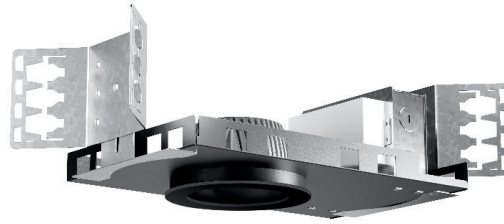
SUPER LOW GLARE - SHALLOW LED NEW CONSTRUCTION
 AMBER (TURTLE SAFE) 250LM (12W)



X = 3-1/8" (frame bottom to fixture top)



Ceiling Thickness (CT) = 2" (Max.)
 Ceiling Cut-Out: 4-1/4"



- Low glare with 25° visual cutoff and frosted polycarbonate lens
- Shallow 3-1/8" depth for ceilings with minimal plenum air-space
- Non-conductive dead-front flanged option (-LENS) for wet locations
- True Amber (590nm) Non-PC

ORDERING : CH4SHL10UE-D10/CR4SHL15BB-TAM

CH4SHL10	Control	Emergency Options	J-Box	Reflector Finish	CCT	Options
Lumens	Control ¹	Emergency Options	J-Box	Reflector Finish	CCT	Options
250lm (12W) CH4SHL10	0-10V Dimming UniDim™ 0-10V, TRIAC/ELV Dimming TRIAC/ELV Dimming (120V) 0-10V Dimming (347V) 1%, 0-10V Dimming 0-10V Dimming with 10W Integral Emergency Battery Backup DMX Dimming with input via XLR5 (120V/277V) DMX Dimming with input via RJ45 (120V/277V)	UE-D10 UE-DUN -DIN -347-D10² UE-D10P1 UE-D10-EMA³	UE-D10 UE-DUN -DIN -347-D10² UE-D10P1 UE-D10-EMA³ UE-DMXLR5² UE-DMXRJ45²	None 10W Emergency Battery Full Power Emergency Inverter Full Power Emergency Inverter (347V) GTD Device	Blank -EM -EMAC⁴ -EMAC347⁴ -GTD Blank -CHP	All Black /CR4SHL15BB² Color Temperature 590nm Amber -TAM Options None Blank Lens for wet locations w/ 60° Beam Spread -LENS60 Lens for wet locations w/ 110° Beam Spread -LENS110

¹ All drivers are 120V/277V unless otherwise noted.
² Extended Lead Time. Consult Factory.
³ UE-D10-EMA is not compatible with -EM or -EMAC or -EMAC347 or -GTD.
⁴ Check wiring diagram.

COMPATABILITY



SPECIFICATION

Application

Architectural/Commercial-grade super-low glare, shallow recessed lensed LED luminaire is for new construction projects where there is minimal plenum air-space in ceiling. Recessed frosted lens provides reduced glare and visual comfort.

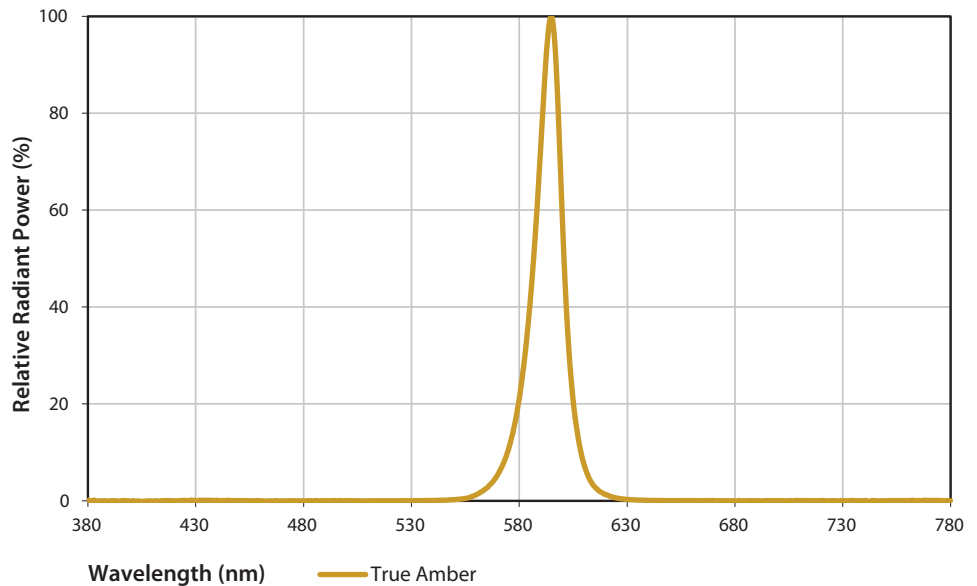
Mounting

Housing suitable for new construction installations only, supplied with (2) 24" adjustable hanger bars with 90° repositioning ability. Suitable for wood & metal joist support systems, and also drywall & T-bar ceilings. Hanger bars equipped with nail-less install 3/4" serrated barbed studs and captive nails, for faster and easier secure mounting in wood joists. Set-screws lock into position and prevent shifting after installation. Earthquake structural cable compatible for drop panel ceiling or any other mounting that requires direct support from structural ceilings.

Color Temperature (CCT)



Binned with 4-step MacAdam ellipses as per ANSI Standard recommendation.



True Amber - Narrow Band LEDs centered at 590nm with no spectral content below 560nm are supplied.

SPECIFICATION (Continued)

Power Connection

Our LED lamp array is replaceable via our on board quick disconnect terminal. Meets CA Title 24 Requirements and other standards restricting the use of Medium Base or Bi-Pin Sockets.

Thermal Management

Heat dissipation facilitated by a large exposed integral aluminum heat sink to maximize heat dissipation in an open-air environment. The recommended ambient temperature should be below 35°C (95°F) to achieve a minimum L70 life of 50,000 hours according to the LM80 standard.

Reflector

Frosted polycarbonate lens pre-installed on reflector unifies diode sources and protects diodes from dust and particles from front of aperture.

Reflector Finish

1-piece, self-flanged LED design provides a clean trim finish without secondary trim ring. Heavy gauge aluminum reflector prevents ugly dents during shipping & installation. Deeply mounted singular LED provides 25° visual cutoff . Available in Satin Haze Reflector/White Finish, White Reflector/ White Finish, All Black, and All Satin Haze.

Non-Conductive Dead-Front Flange

(-LENS60) and (-LENS110) options feature non-conductive dead-front flange for wet locations.

Junction Box

16-gauge pre-wired galvanized steel Junction Box, 26 cubic-inch for a maximum of (8) #12 AWG wires. Furnished with (7) 1/2" knockouts. Strain clamps to install or remove covers for easy access and ground wire. (-CHP) option is Chicago Plenum, air-tight Junction Box.

Air Flow

IC-Rated/Airtight (ICA) reflector design is designed to restrict air flow from room into plenums in compliance to the WSEC - Washington State Energy Code, (Less than 2.0 CFM -Cubic Feet per Minute).

Certifications and Listings



cETLus listed to UL1598 and UL8750. Suitable for dry, damp, and wet locations. NYC approved: Calendar #41937. Conforms to City of Chicago Environmental Air CCEA-200 with Section 18-27-300.22 and special requirements Section 14-20-210C-4. Assembled in USA.

SPECIFICATION (Continued)

Caution

LITON recommends use of surge protectors on the power entering LED Housings. Surge damage is not covered by warranty. (+1KV). Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

Control Options

ELV and TRIAC Driver 120V (-DIN):

Compatible with electronic low voltage, and 2-Wire incandescent dimmers. Also known as leading edge, Reverse Phase, Forward Phase dimming. Allows smooth dimming down to 5% depending upon the dimmer's limitations.

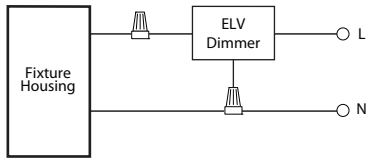
0-10V Driver 120V/277V (UE-D10):

Compatible with most existing 0-10V systems. Also known as fluorescent or 5-Wire dimming. Allows smooth dimming down to 5% depending upon the dimmer's limitations. Compatible with daylight harvesting controls.

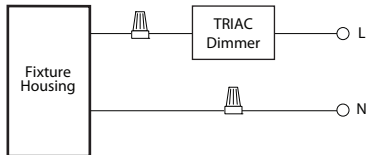
UniDim™ Driver 120V/277V (UE-DUN):

All in one ELV and TRIAC phase dimming (120V only), and 0-10V dimming (120V/277V). Works with most 3-Wire ELV, 2-Wire incandescent and 120V/277V 5-Wire 0-10V fluorescent dimmers.

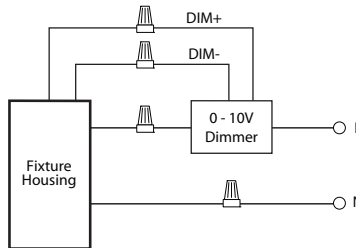
Incandescent/Phase Wiring
ELV



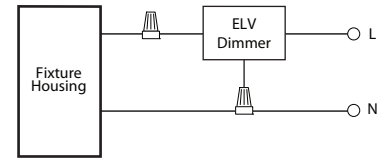
TRIAC



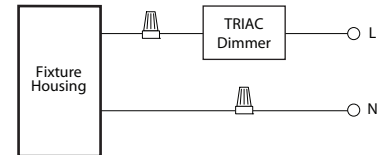
0 - 10V Wiring



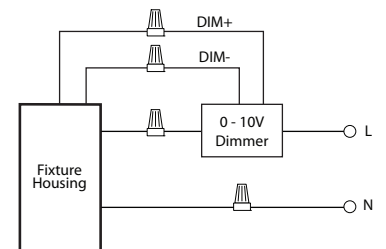
Incandescent/Phase Wiring
ELV



TRIAC



0 - 10V Wiring





|| CH4SHL : 4" C·SERIES

SUPER LOW GLARE - SHALLOW LED NEW CONSTRUCTION
AMBER (TURTLE SAFE) 250LM (12W)

SPECIFICATION (Continued)

Warranty

Covered by a 5-Year Warranty to be free of defects in materials and craftsmanship. Recommended for applications where ambient temperatures do not exceed 35°C (95°F), installations exceeding this temperature will result in reduced LED lamp life and a voided warranty.

Emergency Options

Emergency LED Battery Back-up available, remotely mounted adjacently by the installer. When AC power fails, the device immediately switches to the emergency mode, operating the LEDs for a minimum of 90 minutes. Remote test switch and plate cover included. Optional Generator Transfer Device switches the driver to auxiliary generator power during the loss of normal AC power, (recommended for applications requiring individual circuit switching).

SPECIFICATION (Continued)

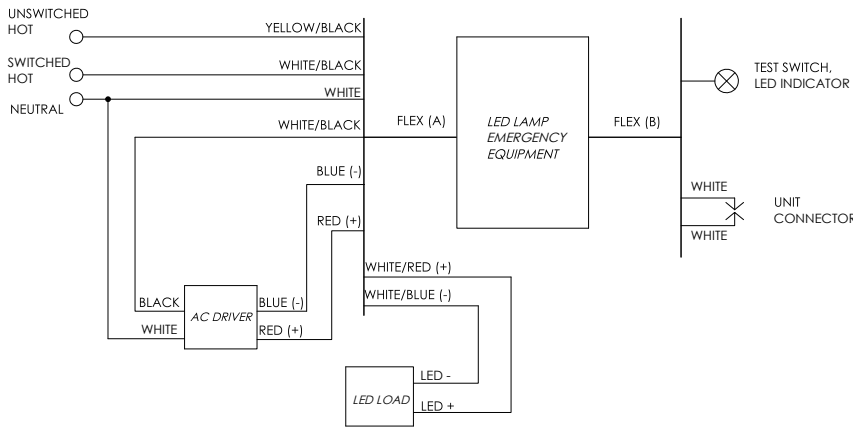
EMERGENCY BATTERY (-EM): 10W

- Must be installed in Dry Locations
- 10W constant output to LED lamp

Not rated for outdoor mounting. Damp location rated.

-EM Lumen Data (Battery)

Fixture/Trim	CH4SHL10/CR4SHL15
Fixture Wattage:	14W
Fixture Lumens:	900
Multiplier:	0.71
EM Lumens:	640



Input Voltage:	120-277VAC/60Hz
Output Voltage:	10W
Wattage:	10W
Switching Time:	<1s
Charging Time:	24h
Operating Time:	90 minutes
Minimum Temperature:	0°C
Maximum Temperature:	50°C
Self-Diagnostic:	No

FULL POWER EMERGENCY INVERTER (-EMAC or -EMAC347): 14W Max.

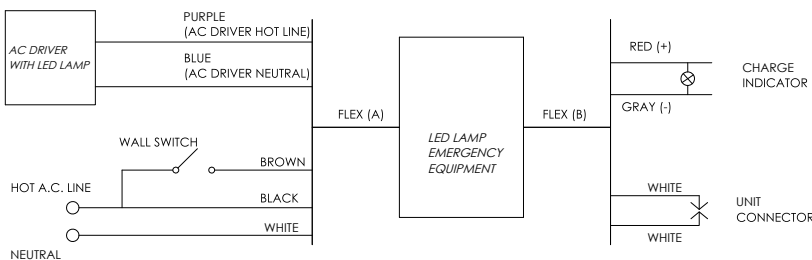
- Must be installed in Dry Locations
- Wattage package will determine battery sent; corresponding wiring diagrams below
- 170 VDC output to AC DRIVER during EM mode

Not rated for outdoor mounting. Damp location rated.

-EMAC Lumen Data (Battery)

Fixture/Trim	CH4SHL10/CR4SHL15
Fixture Wattage:	14W
Fixture Lumens:	900
EM Lumens:	900

<25W LOAD



Input Voltage:	120-277VAC/60Hz
Output Voltage:	170VDC (120VAC Equivalent)
Wattage:	14W
Switching Time:	<1s
Charging Time:	24h
Operating Time:	90 minutes
Minimum Temperature:	0°C
Maximum Temperature:	50°C
Self-Diagnostic:	No