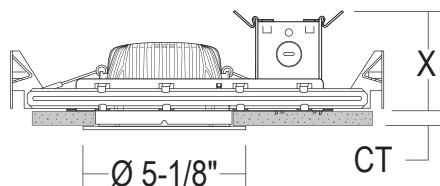
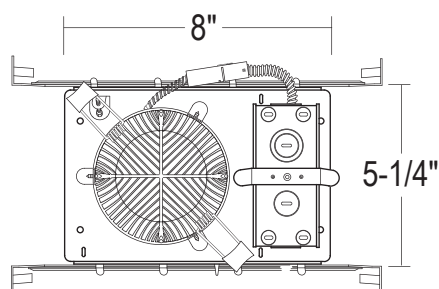


CH4SHL : 4" C-SERIES

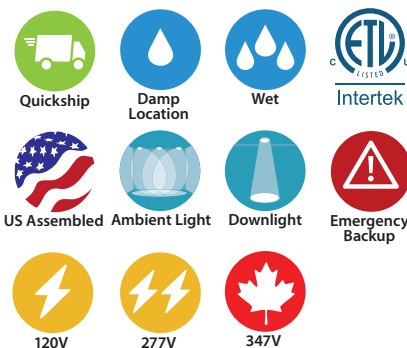
SUPER LOW GLARE, SHALLOW LED NEW CONSTRUCTION 900LM (14W)



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



Ceiling Thickness (CT) = 1-3/4" (Max.)
Ceiling Cut-Out: 4-1/4"



- Deeply recessed lens and 67.5° visual cutoff for reduced glare
- Shallow 3-1/8" depth for ceilings with minimal plenum air-space
- Non-conductive dead-front flanged option (-LENS) for wet locations
- 83 CRI

ORDERING : CH4SHL10UE-D10/CR4SHL15SW-T30

CH4SHL								
Lumens	Insulation Contact	Driver Options	Emergency Options	J-Box	/	Reflector Finish	CCT	Options
	Insulation Contact			J-Box			CCT	
	Non-IC	Blank		Standard	Blank		3000K	T30
	ICA Rated/	ICA		Junction Box	-CHP		3500K	T35
	Airtight			(Chicago Plenum)			4000K	T40
Lumens								
900lm (14W)	CH4SHL10							
Driver Options¹		Emergency Options		Reflector Finish		Options		
0-10V Dimming	UE-D10	None	Blank	Satin Haze Reflector	/CR4SHL15SW	None	Blank	
UniDim™ 0-10V ELV and Triac Dimming	UE-DUN	Remote Location	-EM	/White Ring		Lens for wet locations w/ 60° Beam Spread	-LENS60	
120V ELV and Triac Dimming	-DIN	Emergency Battery		White Reflector	/CR4SHL15WW	Lens for wet locations w/ 110° Beam Spread	-LENS110	
		Remote Location	-EMAC³	/White Ring				
Lutron Hi-lume	UE-DHL	Emergency Inverter		All Black	/CR4SHL15BB²			
Lutron EcoSystem	UE-ECO	Generator Transfer Device	-GTD	All Satin Haze	/CR4SHL15SS²			
347V, 0-10V Dimming	-347-D10²							
0-10V Dimming (1%)	UE-D10P1							
Athena Wireless Node	-AWN							
Athena Wireless Node Occupancy Sensor	-AWN-OCC							

¹ All drivers are 120V/277V unless otherwise noted.

² Extended Lead Time. Consult Factory.

³ Check wiring diagram.

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. Deeply recessed 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)



Available in 3000K, 3500K, 4000K, 83 CRI.

Insulation Contact

CH4SHL10 is inherently thermally protected for direct insulation contact without the need for an enclosure. Non-IC rated housings must be kept 3" from loose-fill insulation.

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 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 enables a clean trim finish without secondary trim ring. Heavy gauge aluminum reflector prevents ugly dents during shipping & installation. Deeply mounted singular LED provides 50° 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.

SPECIFICATION (Continued)

Junction Box

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).

Air Flow

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.

Certifications and Listings

cETLus listed. Suitable for dry and damp locations with wet location options available. 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.

Caution

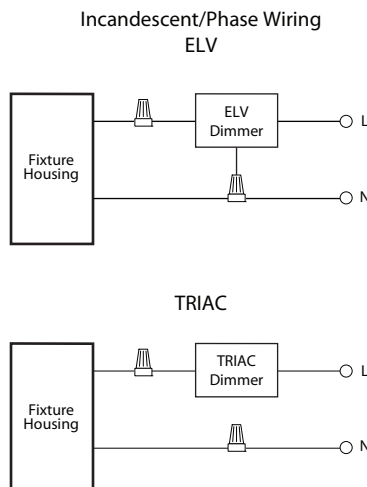


LITON recommends use of surge protectors on the power entering LED Housings. Surge damage is not covered by warranty. (+1KV). Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

Dimming Options

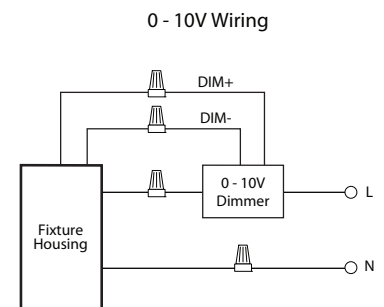
ELV and TRIAC Driver 120V (-DIN):

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.



SPECIFICATION (Continued)

ATHENA WIRELESS NODE (-AWN, -AWN-OCC)

Radio frequency (RF) device for digital control of light fixtures in an Athena control system. Athena wireless processor or Clear Connect gateway-Type X is required to operate wireless node.

- Pre-Wired wireless node
- Installed on Junction Box outer wall
- 2.4 GHz
- cULus Listed (UL 916)
- UL 2043 Plenum Rated
- FCC compliant with the limits for a Class B digital device
- ANSI C1371.1 0-10V Electronic Off
- D4i certified
- IC (Industry Canada)
- Supports DALI-2 Type 8 tuneable-white color temperature Tc applications - IEC62386-209 ed.1

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, installations exceeding this temperature will result in reduced LED lamp life and a voided warranty.

Emergency Options

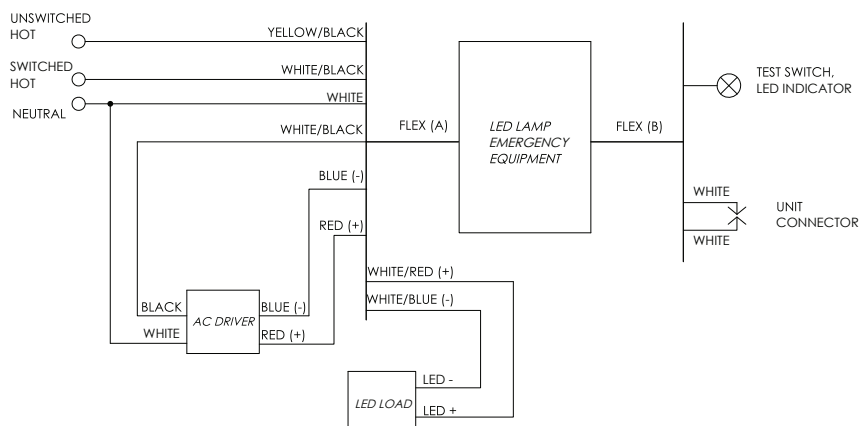
Emergency LED Battery Back-up available, remotely mounted adjacently by the installer. When AC power fails, the device immediately switches to the emergency mode, operating the LEDs for a minimum of 90 minutes. Remote test switch and plate cover included. Optional Generator Transfer Device switches the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

REMOTE EMERGENCY BATTERY (-EM): 10W

For installation away from the surface of the building in remote hidden location.

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

Not rated for outdoor mounting. Damp location rated.



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
Maximum Lumens:	800lm
Self-Diagnostic:	No

SPECIFICATION (Continued)

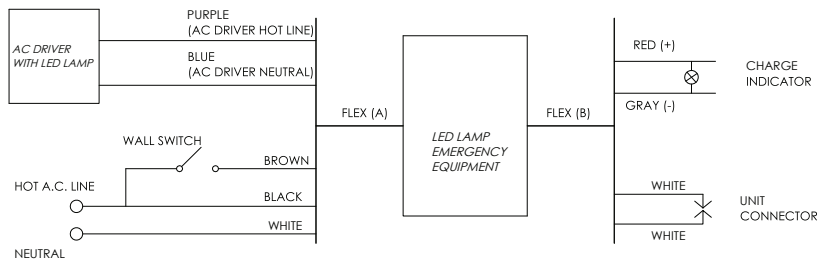
REMOTE LOCATION EMERGENCY INVERTER (-EMAC): 25W and 40W

For installation away from the surface of the building in remote hidden location.

- Hidden Emergency Equipment
- Must be installed in Dry Locations
- Wattage package will determine if 25W or 40W battery gets sent; corresponding wiring diagrams below
- 170 VDC output to AC DRIVER during EM mode

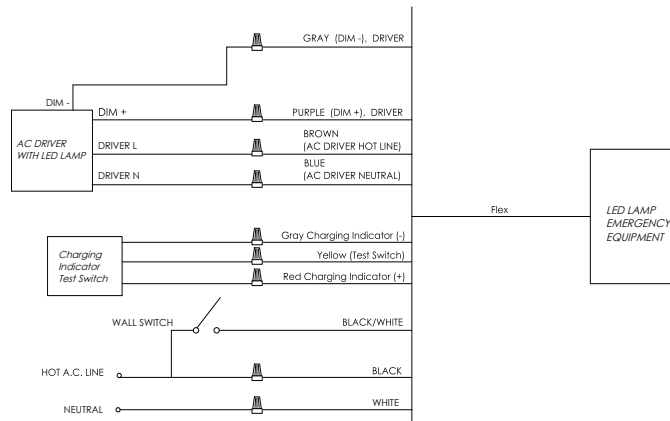
Not rated for outdoor mounting. Damp location rated.

<25W LOAD



Input Voltage:	120-277VAC/60Hz
Output Voltage:	170VDC (120VAC Equivalent)
Wattage:	25W
Switching Time:	<1s
Charging Time:	24h
Operating Time:	90 minutes
Minimum Temperature:	0°C
Maximum Temperature:	50°C
Maximum Lumens:	2200lm
Self-Diagnostic:	No

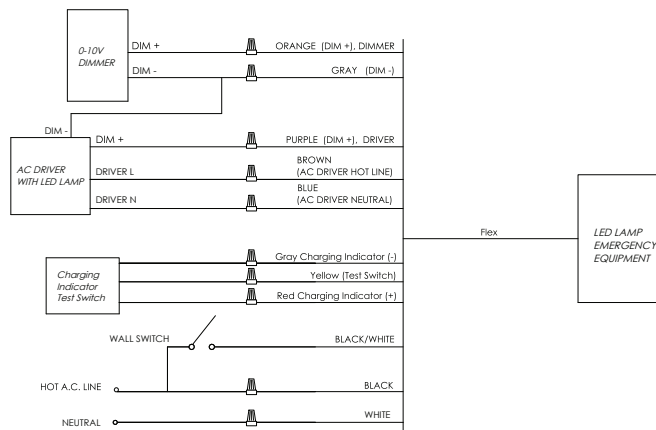
<40W LOAD



Input Voltage:	120-277VAC/60Hz
Output Voltage:	170VDC (120VAC Equivalent)
Wattage:	40W
Switching Time:	<1s
Charging Time:	24h
Operating Time:	90 minutes
Minimum Temperature:	0°C
Maximum Temperature:	50°C
Maximum Lumens:	3500lm
Self-Diagnostic:	Yes

>40W LOAD

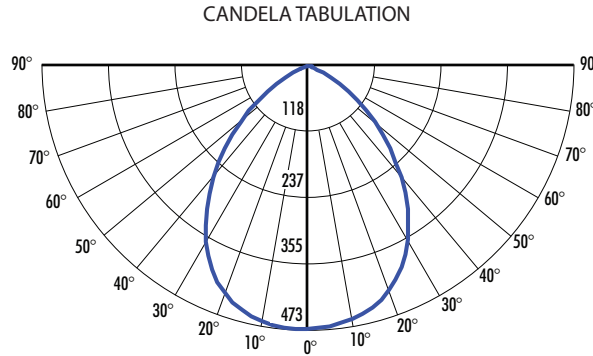
- 0-10V dimmable driver required



PHOTOMETRY

CH4SHL10UE-D10_CR4SHL15SW-T40 (900lm, 14W, 4000K)

System Power:	14W	MULTIPLIERS	
Test Date:	10/2023	CCT	
Beam Angle 50%:	84.9°	3000K:	0.92
Field Angle 10%:	125.7°	3500K:	1.01
Color Temperature:	3907K	4000K:	1.00
CRI:	82.2	Trim Color	
Lumens Delivered:	861	SW:	1.00
CBCP:	473	WW:	1.09
Power Factor:	0.97	Lens	
		Blank:	1.00
		LENS60:	1.05
		LENS110:	1.12

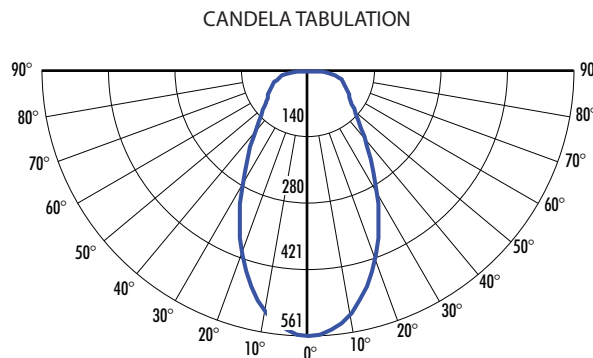


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	14.64'	7.39
10.0'	18.29'	4.73
12.0'	21.95'	3.29
14.0'	25.61'	2.41
16.0'	29.27'	1.85

CH4SHL10UE-D10_CR4SHL15SW-T40-LENS60 (900lm, 14W, 60°, 4000K)

System Power:	14W	MULTIPLIERS	
Test Date:	10/2023	CCT	
Beam Angle 50%:	60.7°	3000K:	0.92
Field Angle 10%:	159.1°	3500K:	1.01
Color Temperature:	3988K	4000K:	1.00
CRI:	82.2	Trim Color	
Lumens Delivered:	903	SW:	1.00
CBCP:	561	WW:	1.09
Power Factor:	0.97	Lens	
		Blank:	1.00
		LENS60:	1.05
		LENS110:	1.12

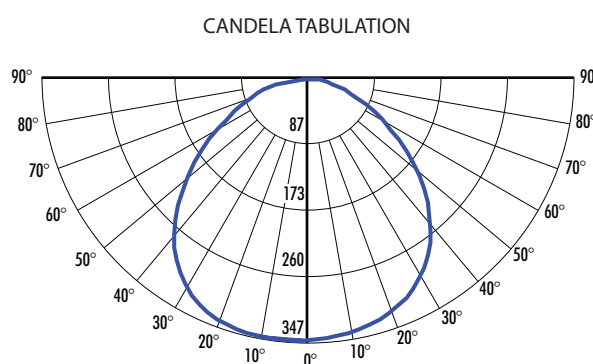


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	9.37'	8.76
10.0'	11.71'	5.61
12.0'	14.05'	3.90
14.0'	16.39'	2.86
16.0'	18.74'	2.19

CH4SHL10UE-D10_CR4SHL15SW-T40-LENS110 (900lm, 14W, 110°, 4000K)

System Power:	14W	MULTIPLIERS	
Test Date:	10/2023	CCT	
Beam Angle 50%:	107.6°	3000K:	0.92
Field Angle 10%:	160.8°	3500K:	1.01
Color Temperature:	4007K	4000K:	1.00
CRI:	82.2	Trim Color	
Lumens Delivered:	965	SW:	1.00
CBCP:	347	WW:	1.09
Power Factor:	0.97	Lens	
		Blank:	1.00
		LENS60:	1.05
		LENS110:	1.12



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	21.86'	5.41
10.0'	27.33'	3.46
12.0'	32.79'	2.41
14.0'	38.26'	1.77
16.0'	43.72'	1.35