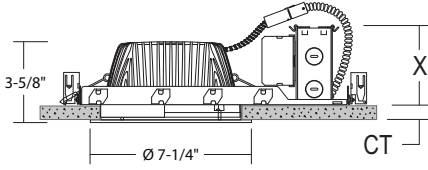
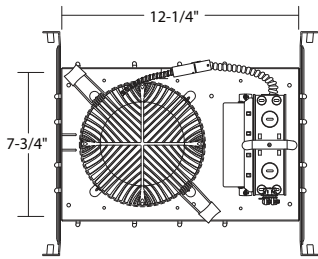


CH6SHL : 6" C-SERIES

SUPER LOW GLARE - SHALLOW LED NEW CONSTRUCTION
 1000LM-1800LM (10W-20W)



X = 3-7/16" (frame bottom to fixture top)



Ceiling Thickness (CT) = 1/4" (Min.), 2" (Max.)
 Ceiling Cut-Out: 6-1/2"



- Low glare with 25° visual cutoff and frosted polycarbonate lens
- Shallow 3-5/8" depth for ceilings with minimal plenum air-space
- Non-conductive dead-front flanged option (-LENS) for wet locations
- 83 CRI

ORDERING : CH6SHL10UE-D10/CR6SHL24SW-T30

CH6SHL									
Lumens	Insulation Contact	Control	Emergency Options	J-Box	Reflector Finish	CCT	Options		
Lumens	Control ¹	Emergency Options		Reflector Finish		CCT			
1000lm (10W) CH6SHL10	0-10V Dimming	UE-D10	None	Blank	Satin Haze Reflector	/CR6SHL24SW			
1300lm (14W) CH6SHL12	UniDim™ 0-10V, TRIAC/ELV Dimming	UE-DUN	10W Emergency Battery	-EM	/White Finish				
1800lm (20W) CH6SHL17	TRIAC/ELV Dimming (120V) Lutron Hi-Lume Lutron EcoSystem	-DIN UE-DHL UE-ECO	Full Power Emergency Inverter	-EMAC⁵	White Reflector /White Finish	/CR6SHL24WW²			
Insulation Contact	0-10V Dimming (347V)	-347-D10²	Full Power Emergency Inverter (347V)	-EMAC347⁵	All Black	/CR6SHL24BB²			
Non-IC Blank	1%, 0-10V Dimming	UE-D10P1	GTD Device	-GTD	Clear Specular Reflector /White Ring	/CR6SHL24SS²			
ICA Rated/ Airtight ICA	DMX Dimming with input via XLR5 (120V/277V) DMX Dimming with input via RJ45 (120V/277V)	UE-DMXLR5 UE-DMXRJ45	J-Box		CCT				
	Athena Wireless Node (120V)	-AWN	Standard	Blank	3000K	-TS30			
	Athena Wireless Node Occupancy Sensor (120V)	-AWN-OCC	Junction Box (Chicago Plenum)	-CHP	3500K	-TS35			
	UniSense - Remotely Mounted Motion/Photosensor (120V)	-SUN-RMT⁴			4000K	-TS40			
	UniSense - Remotely Mounted Motion/Photosensor	-SUN-RMT-1227⁴			ColorSelect 3000K/3500K /4000K	-TS354			
	Casambi Wireless Dimming	-DCSM³			Options				
	BubblyNet Wireless System	-DBNT³			None	Blank			
	Lutron Vive Wireless Dimming Module	-VIVE³			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 Special Order.
⁴ (-SUN-RMT) sensor sent with mounting clips for existing ceiling applications.
⁵ 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)



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

Insulation Contact

(CH6SHL10), (CH6SHL12), and (CH6SH1L7) are 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 (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.

SPECIFICATION (Continued)

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



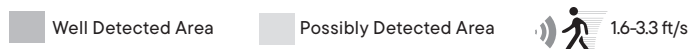
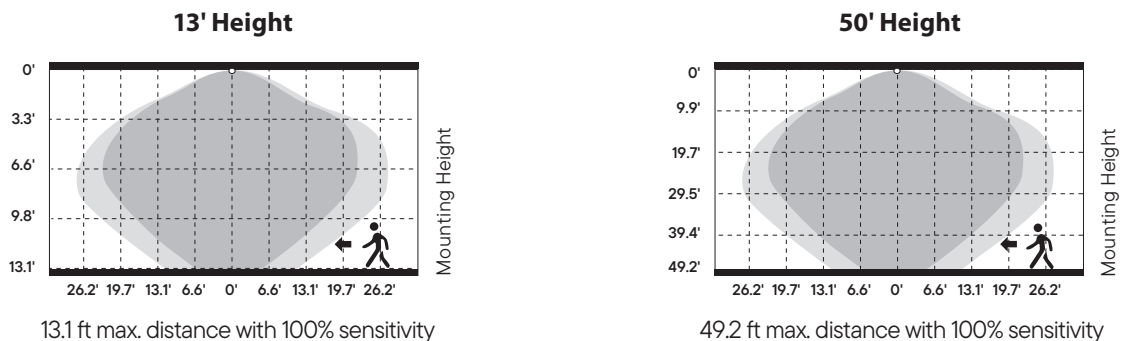
cETLus listed. Suitable for dry and damp locations with wet location options available. NYC approved. Calendar #41937. Conforms to City of Chicago Environmental Air CCEA-200 with Section 18-27-300.22 and special requirements Section 14-20-210C-4. Assembled in USA.

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.

Unisense™ PROGRAMMABLE MOTION + DAYLIGHT (-SUN-RMT, -SUN-RMT-1227)

- Microwave and PIR (Passive Infrared) sensors depending on option
- Daylight harvesting
- Dusk/dawn sensing capabilities
- Motion Sensor



SPECIFICATION (Continued)

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.

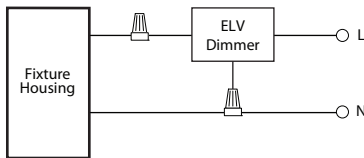
0-10V Driver 120V/277V (UE-D10):

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.

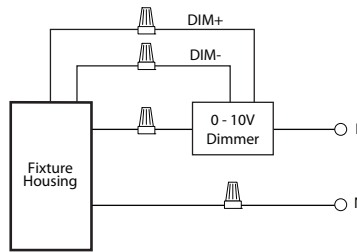
UniDim™ Driver 120V/277V (UE-DUN):

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.

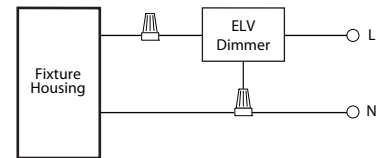
Incandescent/Phase Wiring
ELV



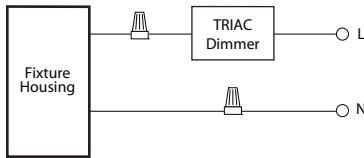
CH6SHL10/CR6SHL24 0-10V Wiring



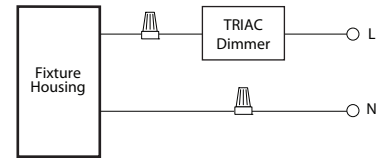
Incandescent/Phase Wiring
ELV



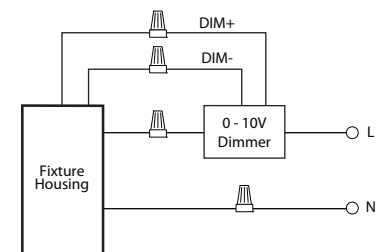
TRIAC



TRIAC



0 - 10V Wiring



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).

EMERGENCY BATTERY (-EM): 10W

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

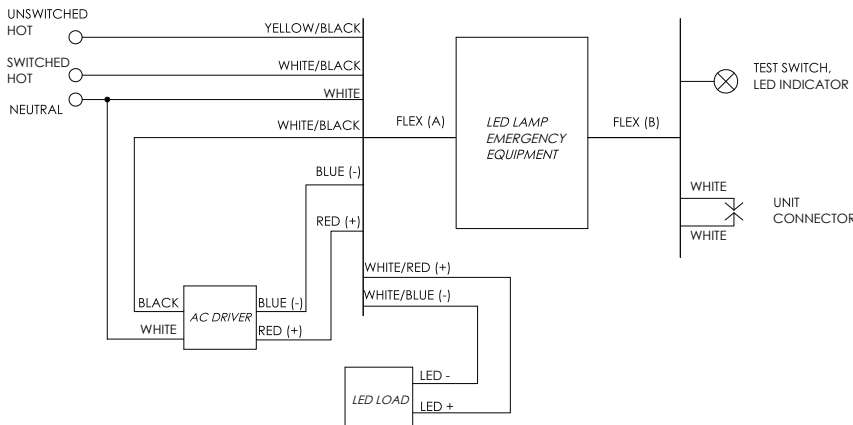
Not rated for outdoor mounting. Damp location rated.

-EM Lumen Data (Battery)

Fixture/Trim	CH6SHL10/CR6SHL24
Fixture Wattage:	10W
Fixture Lumens:	1000
Multiplier:	1
EM Lumens:	1000

Fixture/Trim	CH6SHL12/CR6SHL24
Fixture Wattage:	14W
Fixture Lumens:	1300
Multiplier:	0.71
EM Lumens:	920

Fixture/Trim	CH6SHL17/CR6SHL24
Fixture Wattage:	20W
Fixture Lumens:	1800
Multiplier:	0.5
EM Lumens:	900

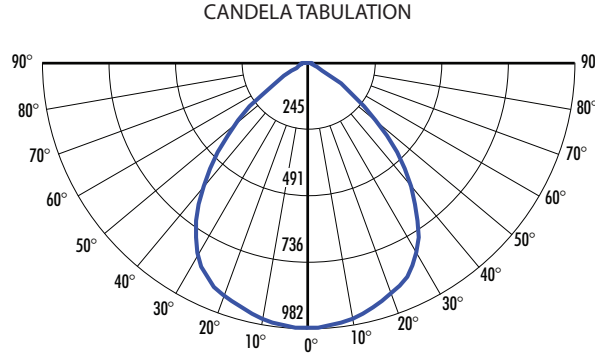


Input Voltage:	120-277VAC/60Hz
Output Voltage:	10W
Wattage:	10W
Switching Time:	<1s
Charging Time:	24h
Operating Time:	90 minutes
Minimum Temperature:	0°C
Maximum Temperature:	50°C
Self-Diagnostic:	No

PHOTOMETRY

CH6SHL17UE-D10_CR6SHL24SW-TS40 (1800lm, 20W, 4000K)

System Power:	20W	MULTIPLIERS
Test Date:	10/2023	CCT
Beam Angle 50%:	88.3°	3000K: 0.94
Field Angle 10%:	123.1°	3500K: 1.03
Color Temperature:	3957K	4000K: 1.00
CRI:	83.0	Lumen Package
Lumens Delivered:	1832	1000lm: 0.54
CBCP:	982	1300lm: 0.72
Power Factor:	1.00	1800lm: 1.00
		Trim Color
		SW: 1.00
		WW: 1.09
		Lens
		Blank: 1.00
		LENS60: 0.93
		LENS110: 1.01

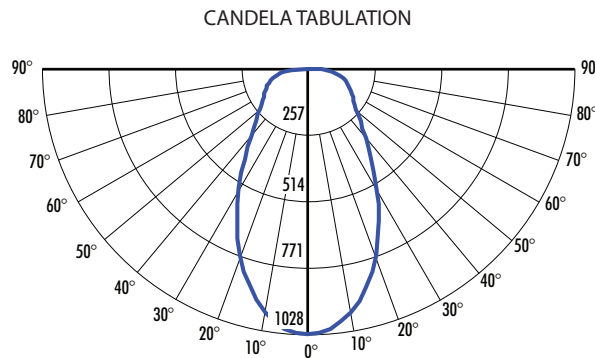


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	15.53'	15.34
10.0'	19.42'	9.82
12.0'	23.30'	6.82
14.0'	27.18'	5.01
16.0'	31.06'	3.83

CH6SHL17UE-D10_CR6SHL24SW-TS40-LENS60 (1800lm, 20W, 60°, 4000K)

System Power:	20W	MULTIPLIERS
Test Date:	10/2023	CCT
Beam Angle 50%:	61.8°	3000K: 0.94
Field Angle 10%:	160.7°	3500K: 1.03
Color Temperature:	4072K	4000K: 1.00
CRI:	83.0	Lumen Package
Lumens Delivered:	1712	1000lm: 0.54
CBCP:	1028	1300lm: 0.72
Power Factor:	1.00	1800lm: 1.00
		Trim Color
		SW: 1.00
		WW: 1.09
		Lens
		Blank: 1.00
		LENS60: 0.93
		LENS110: 1.01

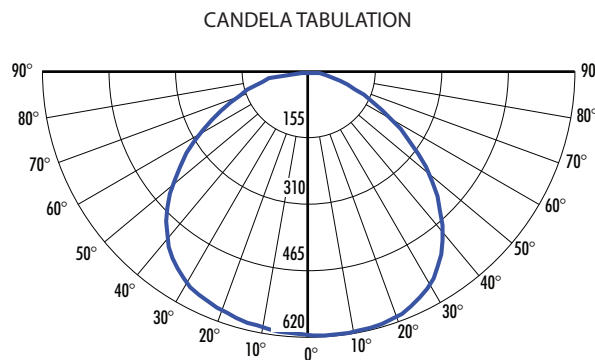


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	9.58'	16.06
10.0'	11.97'	10.28
12.0'	14.36'	7.14
14.0'	16.76'	5.24
16.0'	19.15'	4.01

CH6SHL17UE-D10_CR6SHL24SW-TS40-LENS110 (1800lm, 20W, 110°, 4000K)

System Power:	20W	MULTIPLIERS
Test Date:	10/2023	CCT
Beam Angle 50%:	113.5°	3000K: 0.94
Field Angle 10%:	162.4°	3500K: 1.03
Color Temperature:	4072K	4000K: 1.00
CRI:	82.9	Lumen Package
Lumens Delivered:	1846	1000lm: 0.54
CBCP:	620	1300lm: 0.72
Power Factor:	1.00	1800lm: 1.00
		Trim Color
		SW: 1.00
		WW: 1.09
		Lens
		Blank: 1.00
		LENS60: 0.93
		LENS110: 1.01



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	24.40'	9.60
10.0'	30.51'	6.14
12.0'	36.61'	4.27
14.0'	42.71'	3.13
16.0'	48.81'	2.40

2023.10.17