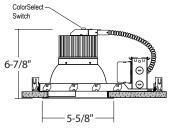
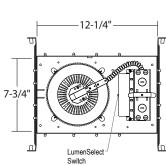
CATALOG#

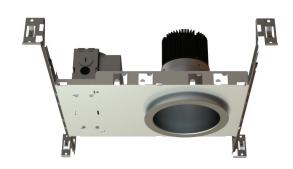
CH4LS: 4" C-SERIES

LUMEN/COLORSELECT NEW CONSTRUCTION 1800LM - 2700LM (18W-28W)





CH4LS1827



Ceiling Cut-Out: 4-7/8" Ceiling Thickness: 1" Max.



















- Twist and lock reflector for quick access to LED lamp array
- Heavy-duty self-flanged reflector
- Soft even lumen distribution
- · No visible screws or hardware

ColorSelect

-TS354

ORDERING: CH4LS1827UE-D10-EM/CR4L22SW-EMA-TS354

LumenSelect Housing	Insulation Contact	Driver Options	Emergency Options	J-Box	1	Reflector	Reflector Finish	Reflector Options	Cd
LumenSelect Hou	using ¹	Refle	ector¹ Ref	lector Finish		Reflector	Option	ColorSelect	
1800lm (18W)	CH4LS1827 [Op	tions] /CR4		in Haze Reflect	tor/ SW	None	Blank	ColorSelect	
2300lm (22W) 2700lm (28W)			Wh Wh	ite Ring ite Reflector/ ite Ring Black	WW BB	Integral E Switch	M -EMA ²	3000K, 3500K, 4000K (84 CRI)	
	Opt	ions	Cle Ref	ar Specular lector/White Ri Satin Haze	CW				
Insulation Contac	ct Driver Options		Emer	gency Options		J-Box			
Non-IC Blank		UE-D10	None		Blank	None	В	lank	
IC Rated/ ICA ³ Airtight	(120V/277V) Athena Wireless	Node -AWN		te Location gency Battery	-EM	Junction (Chicago	n Box - o Plenum)	CHP	
	Athena Wireless Occupancy Sens			te Location gency Inverter	-EMAC				
	•		GTD [Device	-GTD				

CH4LS1827	DRIVER SET LOW	DRIVER SET MID	DRIVER SET HIGH
LUMENS (delivered)	1800	2300	2700

COMPATABILITY

VR800

Outdoor Vandal Resistant Kit





¹Housing must match corresponding Reflector in column to the right.

²Only available for EM Housings.

³ (ICA) is only available on 1800lm (18W), and 2300lm (22W).



LUMEN/COLORSELECT NEW CONSTRUCTION 1800LM - 2700LM (18W-28W)

SPECIFICATION

Application	
Mounting	Architectural/Commercial-grade recessed LED downlight housing with Lumen/ColorSelect switch offers added flexibility for optimal light output and ambience in commercial and architectural spaces with medium to high ceilings.
	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. Optional galvanized aluminum Architectural C-Channel Batwing also available. (C260) & (C260J) hanger bars are NOT included with (-BWNG) option, and must be ordered separately.
3000K 3500K 4000K Insulation Contact	Available in 3000K, 3500K and 4000K in 84 CRI.
insulation contact	CH4LS1827 set to 18W (1800lm) or 22W (2300lm) 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

LED lamp array is replaceable via 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. IC Option thermally engineered to ensure stated L70 LED life without the need for external box. The recommended ambient temperature should be below 35°C to achieve a minimum L70 life of 50,000 hours according to the LM80 standard.



LUMEN/COLORSELECT NEW CONSTRUCTION 1800LM - 2700LM (18W-28W)

SPECIFICATION (Continued)

Reflector

Field adjustable twist and lock reflector is easily removable for both Non-IC and IC rated housings to provide quick access to LED lamp array. Frosted polycarbonate lens pre-installed on reflector unifies diode sources and protects diodes from dust and particles from front of aperture. Optional reflector (-EMA) features integral EM switch for 12W emergency backup (UE-D10-EM).

Reflector Finish

The 1-piece, self-flanged, LED design enables a clean trim finish without a 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, Clear Specular Reflector/White Finish, and All Satin Haze.



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.

Airflow

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 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.

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.



LUMEN/COLORSELECT NEW CONSTRUCTION 1800LM - 2700LM (18W-28W)

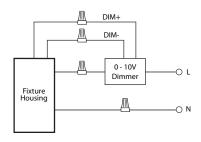
SPECIFICATION (Continued)

Dimming Options

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.

0 - 10V Wiring



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 wirless 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 lmits for a Class B digital device
- · ANSI C1371.1 0-10V Electronic Off
- · D4i certified
- IC (Industry Canda)
- 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).



CH4LS: 4" C·S∈RIES

LUMEN/COLORSELECT NEW CONSTRUCTION 1800LM - 2700LM (18W-28W)

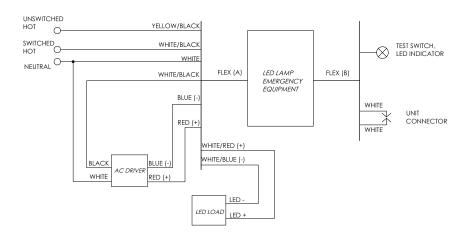
SPECIFICATION (Continued)

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



LUMEN/COLORSELECT NEW CONSTRUCTION 1800LM - 2700LM (18W-28W)

SPECIFICATION (Continued)

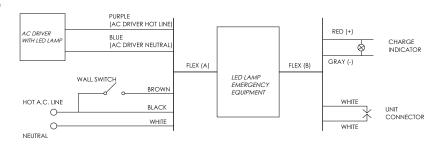
REMOTE LOCATION EMERGENCY INVERTER (-EMAC): 25W and 40W

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

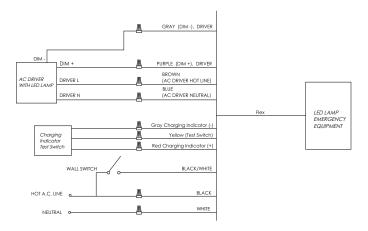
Not rated for outdoor mounting. Damp location rated.

<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

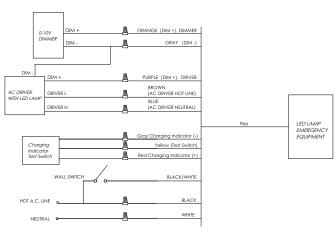
<40W LOAD



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



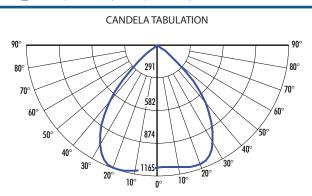


LUMEN/COLORSELECT NEW CONSTRUCTION 1800LM - 2700LM (18W-28W)

PHOTOMETRY

CH4LS1827UE-D10_CR4L22CW-TS40_LOW (1800lm, 18W, 4000K)

System Power:	18W	MULTIF	PLIERS
Test Date:	10/2023	Reflecto	
Beam Angle 50%:	84.2°	SS:	1.00 0.90
Field Angle 10%:	108.0°	SW:	0.88
Color Temperature:	3866K	WW:	0.81 T
CRI:	82.6	2700K:	1.04
Lumens Delivered:	1928	3000K:	1.01
CBCP:	1164	3500K: 4000K :	1.12 1.00
Power Factor:	0.99	4000K:	1.00

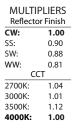


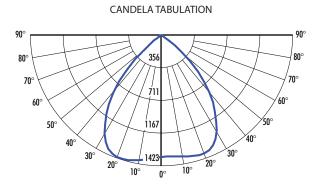
FOOTCA	ANDLE DISTRIBUTION	
Height	Beam Diameter	FC
8.0'	14.46'	17.06
10.0'	18.07'	10.92
12.0'	21.69'	7.58
14.0'	25.30'	5.57
16.0'	28.91'	4.27

FOOTCANDI E DICTDIDI ITIONI

CH4LS1827UE-D10_CR4L22CW-TS40_MID (2300lm, 22W, 4000K)

System Power:	22W
Test Date:	10/2023
Beam Angle 50%:	84.3°
Field Angle 10%:	107.9°
Color Temperature:	3873K
CRI:	82.4
Lumens Delivered:	2355
CBCP:	1421
Power Factor:	0.99

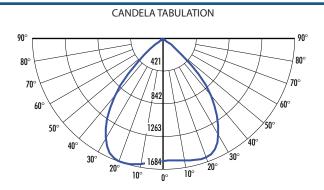




FOOTCANDLE DISTRIBUTION			
Height	Beam Diameter	FC	
8.0'	14.48'	20.83	
10.0'	18.10′	13.33	
12.0'	21.72'	9.26	
14.0'	25.34'	6.80	
16.0'	28.96'	5.21	

CH4LS1827UE-D10_CR4L22CW-TS40_HIGH (2700lm, 28W, 4000K)

System Power:	28W	MULTIF	PLIERS
Test Date:	10/2023	Reflecto	r Finish
Beam Angle 50%:	82.4°	CW: SS:	1.00 0.90
Field Angle 10%:	108.0°	SW:	0.88
Color Temperature:	4072K	WW:	0.81 T
CRI:	82.3	2700K:	1.04
Lumens Delivered:	2785	3000K:	1.01
CBCP:	1683	3500K:	1.12
Power Factor:	0.99	4000K:	1.00



FOOTCA	NDLE DISTRIBUTION		
Height	Beam Diameter		
8.0'	14.46'	24.66	
10.0'	18.07'	15.78	
12.0'	21.69'	10.96	
14.0'	25.30'	8.05	
16.0'	28.91'	6.16	