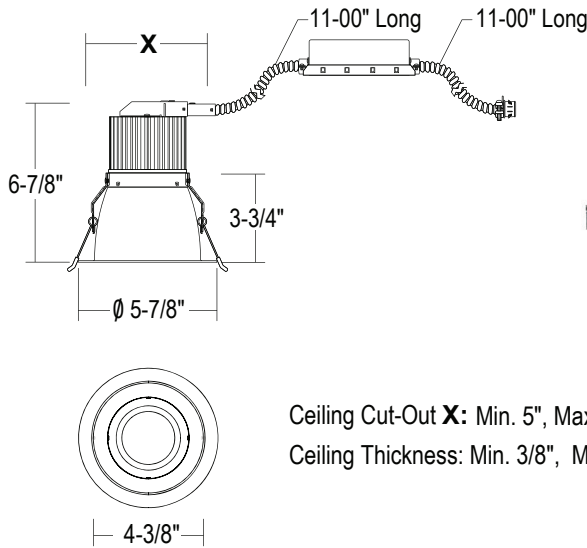


CRTR4LC : 4" C-SERIES

(COB) CHIP ON BOARD BEAM CONTROL LED, RETROFIT/REMODEL
1000LM - 2500LM (10W-30W)



Ceiling Cut-Out **X**: Min. 5", Max. 5-1/4"
Ceiling Thickness: Min. 3/8", Max. 1-1/2"



- Quick connector power adapter and twist-and-lock reflector for quick access and easy maintenance
- Heavy-duty springs and self-flanged reflector
- Several lumen packages with soft even illumination
- No visible screws or hardware

ORDERING : CRTR4LC10SW-B30-T27UE-D10-JB-CHP

CRTR4LC		Insulation Contact		Reflector Finish	Beam Spread	CCT	Driver Options	J-Box
Fixture/Lumens		Insulation Contact			Beam Spread			J-Box
		Non-IC	Blank		20° Spot	-B20		None
		ICA Rated	ICA ⁴		30° Narrow Flood	-B30		Junction Box
		Airtight			50° Wide Flood	-B50		Junction Box
					60° Very Wide Flood	-B60		(Chicago Plenum)
					70° Very Wide Flood	-B70		
Fixture/Lumens		Reflector Finish			CCT		Driver Options ¹	
1000lm (10W)	CRTR4LC10	Satin Haze Reflector/ White Ring	SW	2700K (90 CRI)	-T27	0-10V Dimming	UE-D10	
1400lm (15W)	CRTR4LC15	White Reflector/ White Ring	WW	2700K (97 CRI)	-T27-C97	Integral EM Backup	UE-D10-EM	
1900lm (20W)	CRTR4LC19	All Black	BB	3000K (90 CRI)	-T30	120V ELV and Triac Dimming	-DIN	
2500lm (30W)	CRTR4LC25	Clear Specular Reflector/White Ring	CW ³	3000K (97 CRI)	-T30-C97	UniDim™ 0-10V ELV and Triac Dimming	UE-DUN	
		All Satin Haze	SS	3500K (90 CRI)	-T35	347V, 0-10V Dimming	-347-D10 ²	
				4000K (90 CRI)	-T40	0-10V Dimming (1%)	UE-D10P1	
				5000K (80 CRI)	-T50	Lutron Hi-lume	UE-DHL	
						DMX 0% Dimming	-DMX	
						Athena Wireless Node	-AWN	
						Athena Wireless Node Occupancy Sensor	-AWN-OCC	

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

² -347-D10 is not available for CRTR4LC10.

³ Clear finish reflector not recommended for placing close to

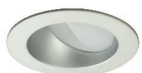
¹ All drivers are 120V/277V unless otherwise noted.

² 347-D10 is not available for CRTR4LC10.

³ Clear finish reflector not recommended for placing close to vertical surfaces. Uneven striations may be visible.

⁴ ICA is only available for CRTR4LC10, CRTR4LC15, and CRTR4LC19.

COMPATABILITY



P-CR472
Wall Wash for 4"

SPECIFICATION

Application

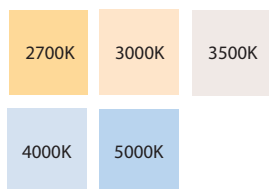
Architectural/Commercial-grade recessed (COB) Chip on Board Beam Control LED allows for concentrated high center beam candlepower. Twist and lock TIR beam control optic is designed for easy field replacement of 20°, 30°, 50°, 60°, and 70° beam spread options.

Retrofit Mounting

Designed for use with existing 4" Architectural, Incandescent, Fluorescent, and Metal Halide Housings. Supplied with flexible metal conduit for connection to existing electrical junction box. Uses existing frame-in-kits mounting method via clips. Consult factory for special mounting methods.

Use the -JB Junction box option for remodel applications that don't have an existing housing frame or an electrical junction box close by. The retaining spring clips option allows for mounting to wood or gypsum board ceilings without the need of a frame.

Color Temperature (CCT)



Available in 2700K, 3000K, 3500K, 4000K, 90 CRI; 5000K 80 CRI; 2700K and 3000K, 97 CRI.

COLOR TEMP:	2700K	3000K	3500K	4000K	5000K
CRI:	90, 97	90, 97	90	90	80

Insulation Contact

(CRTR4LC10), (CRTR4LC15), and (CRTR4LC19) 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

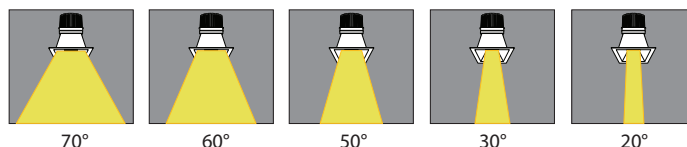
Our LED lamp array is replaceable via our on board quick disconnect terminal. Meets CA Title 24 Requirements and other standards restricting the use of Medium Base or Bi-Pin Sockets.

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 to achieve a minimum L70 life of 50,000 hours according to the LM80 standard.

Optics

Multifaceted aluminum reflectors produces low glare illumination with multiple light control options.



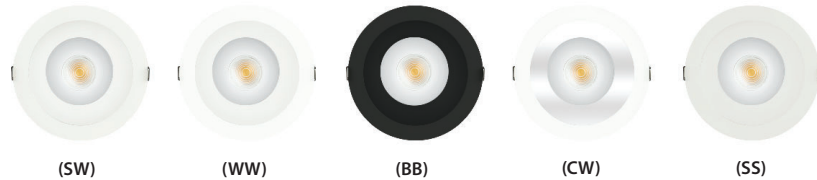
SPECIFICATION (Continued)

Reflector

Field adjustable twist and lock reflector is easily removable to provide quick access to LED lamp array. 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 are included to install or remove covers for an easily accessed ground wire. (-CHP) option is Chicago Plenum, air-tight Junction Box.

Certifications and Listings



cETLus listed. Suitable for dry, and damp, 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

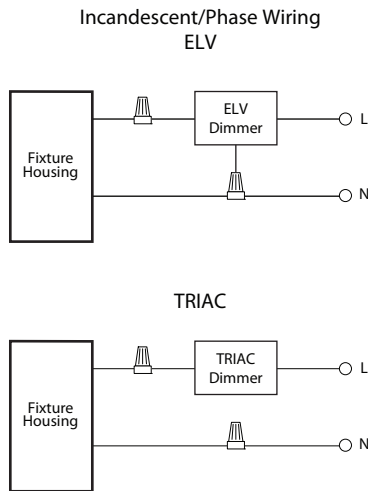
LITON recommends use of surge protectors on the power entering LED Housings. Surge damage is not covered by warranty. (+1KV). Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

SPECIFICATION (Continued)

Dimming Options

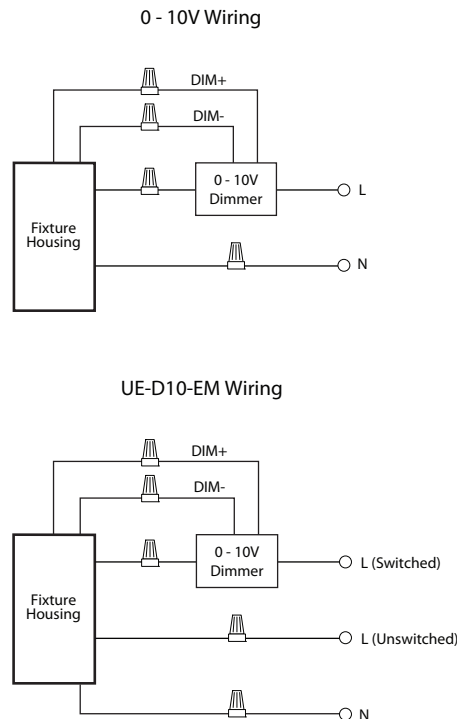
ELV and TRIAC Driver 120V (-DIN):

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.



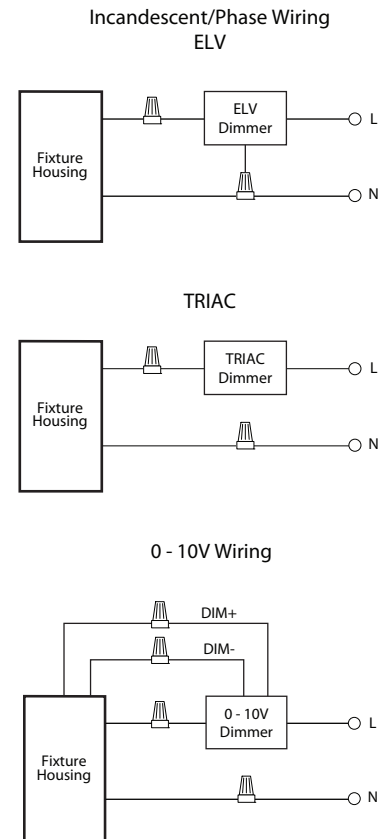
0-10V Driver 120V/277V (UE-D10):

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.



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.



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

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

Emergency Options

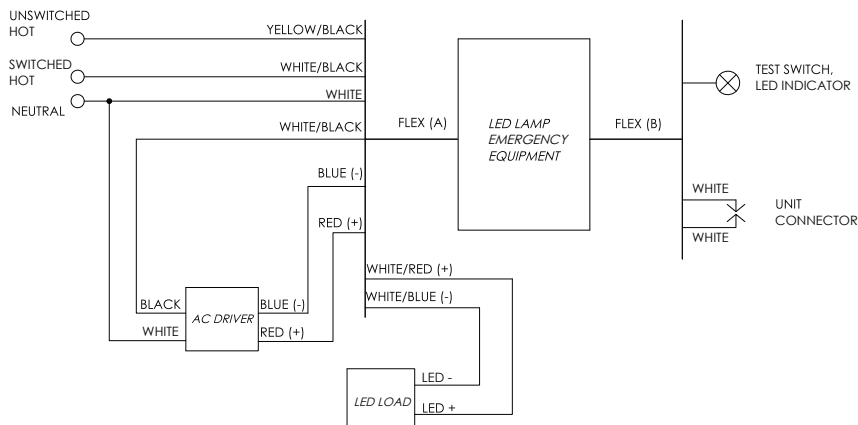
Emergency LED Battery Back-up available, remotely mounted adjacently by the installer.
When AC power fails, the device immediately switches to the emergency mode, operating the LEDs for a minimum of 90 minutes. Remote test switch and plate cover included. Optional Generator Transfer Device switches the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

INTEGRAL EMERGENCY BATTERY (UE-D10-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:	<3s
Charging Time:	12h
Operating Time:	90 minutes
Minimum Temperature:	0°C
Maximum Temperature:	48°C
Maximum Lumens:	800lm
Self-Diagnostic:	Yes

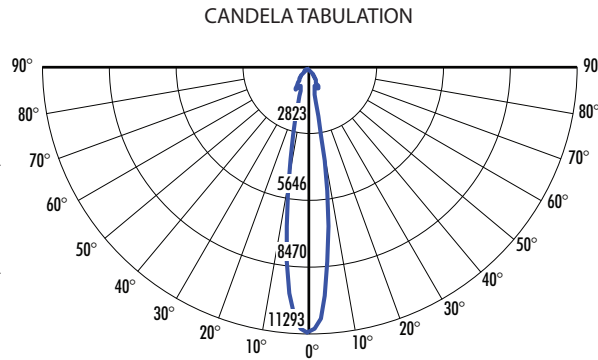
PHOTOMETRY

CRTR4LC25CW-B20-T35UE-D10 (2500lm, 30W, 20°, 3500K)

System Power:	30W
Test Date:	10/2023
Beam Angle 50%:	17.3°
Field Angle 10%:	33.8°
Color Temperature:	3486K
CRI:	91.9
Lumens Delivered:	2337
CBCP:	11293
Power Factor:	0.99

MULTIPLIERS	REFLECTOR FINISH
CW : 1.00	
SS :	0.99
SW :	0.99
WW :	0.96

CCT	Lumens
2700K :	0.91
3000K :	0.97
3500K : 1.00	
4000K :	1.04
1000lm :	0.45
1400lm :	0.56
1900lm :	0.78
2500lm : 1.00	



FOOTCANDLE DISTRIBUTION

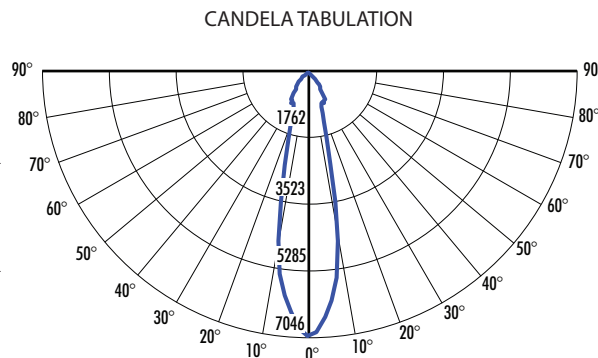
Height	Beam Diameter	FC
8.0'	2.43'	176.45
10.0'	3.04'	112.93
12.0'	3.65'	78.42
14.0'	4.26'	57.62
16.0'	4.87'	44.11

CRTR4LC25CW-B30-T35UE-D10 (2500lm, 30W, 30°, 3500K)

System Power:	30W
Test Date:	10/2023
Beam Angle 50%:	24.1°
Field Angle 10%:	67.7°
Color Temperature:	3456K
CRI:	92.0
Lumens Delivered:	2326
CBCP:	7046
Power Factor:	0.99

MULTIPLIERS	REFLECTOR FINISH
CW : 1.00	
SS :	0.99
SW :	0.99
WW :	0.96

CCT	Lumens
2700K :	0.91
3000K :	0.97
3500K : 1.00	
4000K :	1.04
1000lm :	0.45
1400lm :	0.58
1900lm :	0.78
2500lm : 1.00	



FOOTCANDLE DISTRIBUTION

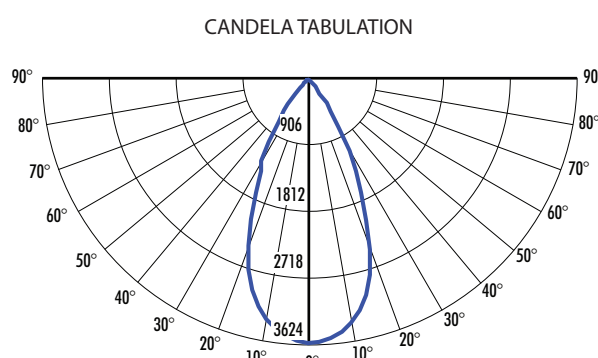
Height	Beam Diameter	FC
8.0'	3.42'	110.10
10.0'	4.27'	70.46
12.0'	5.12'	48.93
14.0'	5.98'	35.95
16.0'	6.83'	27.53

CRTR4LC25CW-B50-T35UE-D10 (2500lm, 30W, 50°, 3500K)

System Power:	30W
Test Date:	10/2023
Beam Angle 50%:	48.8°
Field Angle 10%:	79.0°
Color Temperature:	3446K
CRI:	91.7
Lumens Delivered:	2547
CBCP:	3624
Power Factor:	0.99

MULTIPLIERS	REFLECTOR FINISH
CW : 1.00	
SS :	0.99
SW :	0.99
WW :	0.96

CCT	Lumens
2700K :	0.91
3000K :	0.97
3500K : 1.00	
4000K :	1.04
1000lm :	0.42
1400lm :	0.56
1900lm :	0.77
2500lm : 1.00	



FOOTCANDLE DISTRIBUTION

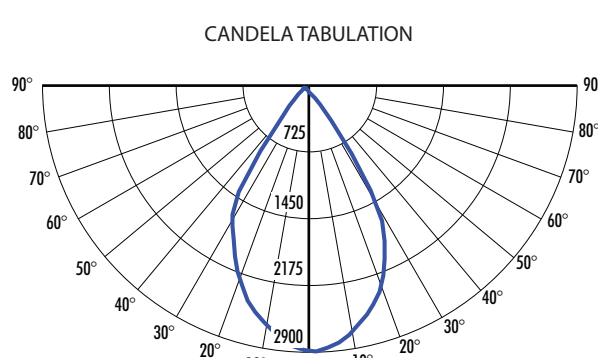
Height	Beam Diameter	FC
8.0'	7.26'	56.62
10.0'	9.07'	36.24
12.0'	10.89'	25.17
14.0'	12.70'	18.49
16.0'	14.52'	14.16

CRTR4LC25CW-B60-T35UE-D10 (2500lm, 30W, 60°, 3500K)

System Power:	30W
Test Date:	10/2023
Beam Angle 50%:	62.6°
Field Angle 10%:	80.6°
Color Temperature:	3454K
CRI:	91.7
Lumens Delivered:	2553
CBCP:	2895
Power Factor:	0.99

MULTIPLIERS	REFLECTOR FINISH
CW : 1.00	
SS :	0.99
SW :	0.99
WW :	0.96

CCT	Lumens
2700K :	0.91
3000K :	0.97
3500K : 1.00	
4000K :	1.04
1000lm :	0.42
1400lm :	0.56
1900lm :	0.77
2500lm : 1.00	



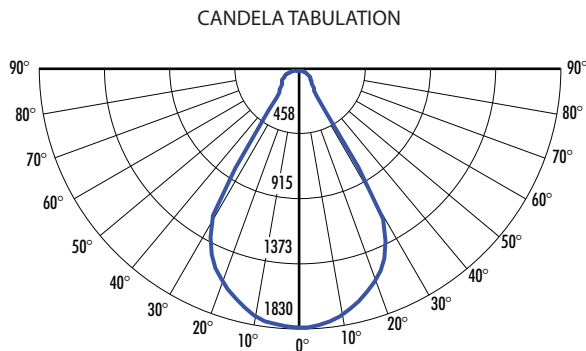
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	9.73'	45.19
10.0'	12.16'	28.92
12.0'	14.59'	20.09
14.0'	17.02'	11.30
16.0'	19.46'	8.93

PHOTOMETRY (Continued)

CRTR4LC25WW-B70-T35UE-D10 (2500lm, 30W, 70°, 3500K)

System Power:	30W	MULTIPLIERS
Test Date:	10/2023	REFLECTOR FINISH
Beam Angle 50%:	63.2°	CW : 1.04
Field Angle 10%:	84.1°	SS : 1.03
Color Temperature:	3441K	SW : 1.03
CRI:	91.5	WW : 1.00
Lumens Delivered:	2058	CCT
CBCP:	1830.5	2700K : 0.91
Power Factor:	0.99	3000K : 0.97
		3500K : 1.00
		4000K : 1.04
		Lumens
		1000lm: 0.40
		1400lm: 0.55
		1900lm: 0.79
		2500lm: 1.00



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	9.84'	28.60
10.0'	12.30'	18.30
12.0'	14.76'	12.71
14.0'	17.23'	9.34
16.0'	19.69'	7.15