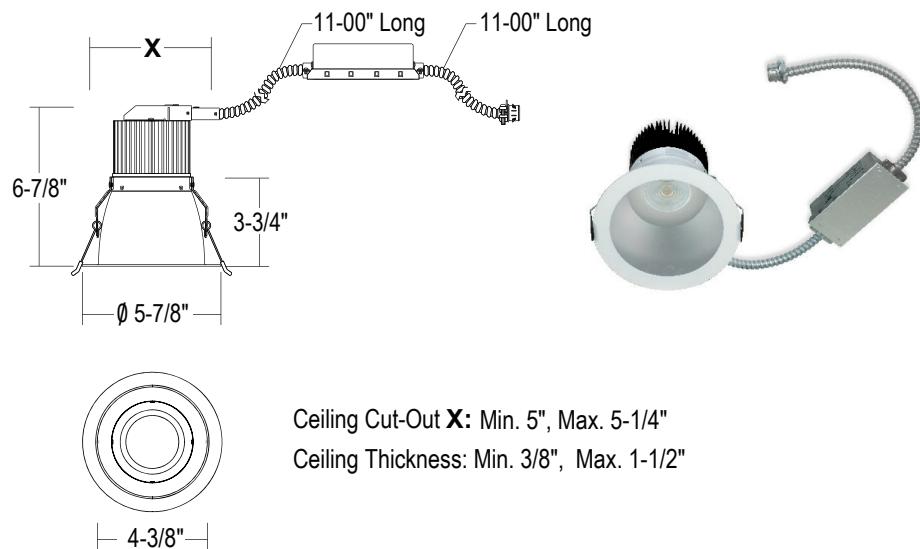


CRTR4LC - 4" C-SERIES

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



- 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	Fixture/Lumens	Insulation Contact	Reflector Finish	Beam Spread	CCT	Driver Options	J-Box
Fixture/Lumens			Reflector Finish		CCT		Driver Options ¹
1000lm (10W)	CRTR4LC10⁴		Satin Haze Reflector/ SW		2700K (90 CRI)	-T27	0-10V Dimming
1400lm (15W)	CRTR4LC15⁴		White Ring		2700K (97 CRI)	-T27-C97	12W Emergency Backup
1900lm (20W)	CRTR4LC19		White Reflector/ WW		3000K (90 CRI)	-T30	120V ELV and Triac Dimming
2500lm (30W)	CRTR4LC25		White Ring		3000K (97 CRI)	-T30-C97	UniDim™ 0-10V ELV and Triac Dimming
Insulation Contact			All Black BB		3500K (90 CRI)	-T35	347V
Non-IC	Blank		Clear Specular CW³		4000K (90 CRI)	-T40	0-10V Dimming (1%)
ICA Rated	ICA⁵		Reflector/White Ring		5000K (80 CRI)	-T50	Lutron Hi-lume
Airtight			All Satin Haze SS				DMX 0% Dimming
			Beam Spread				
			20° Spot -B20				J-Box
			30° Narrow Flood -B30				None Blank
			50° Wide Flood -B50				Junction Box -JB
			60° Very Wide Flood -B60				Junction Box -JB-CHP
			70° Very Wide Flood -B70				(Chicago Plenum)

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

² 347 is not available for CRTR4LC10.

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

⁴ CRTR4LC10, and CRTR4LC15 are IC rated for direct insulation contact.

⁵ ICA is only available for CRTR4LC10, and CRTR4LC15.

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.

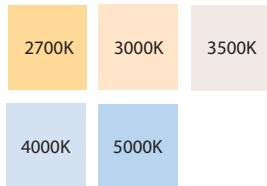
Retrofit Mounting

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
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CRI:	90, 97	90, 97	90	90	80
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Insulation Contact

(CRTR4LC10), and (CRTR4LC15) are IC-Rated for direct insulation contact. Non-IC rated housings must be kept 3" from loose-fill insulation.

Power Connection

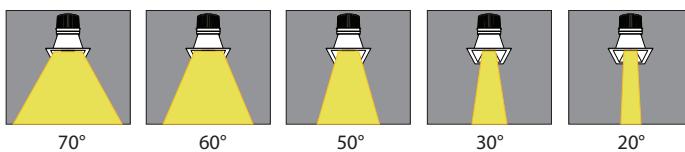
Our LED lamp array is replaceable via our on board quick disconnect terminal. Meets CA Title 24 Requirements and other standards restricting the use of Medium Base or Bi-Pin Sockets.

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.

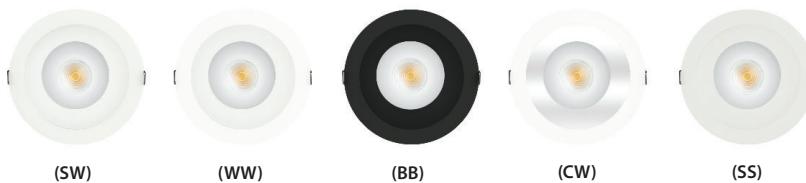


SPECIFICATION (Continued)**Reflector**

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

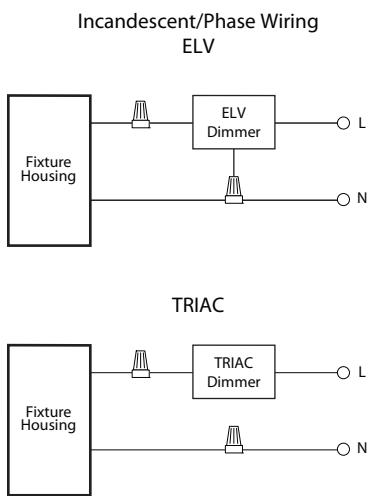
LITON recommends use of surge protectors on the power entering LED Housings. Surge damage is not covered by warranty. (+1KV). Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

SPECIFICATION (Continued)

Dimming Options

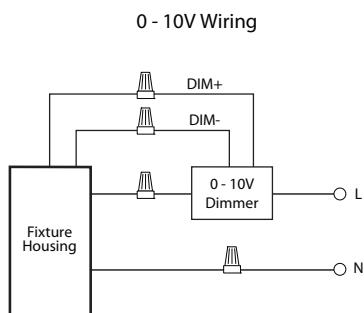
ELV and TRIAC Driver 120V (-DIN):

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.



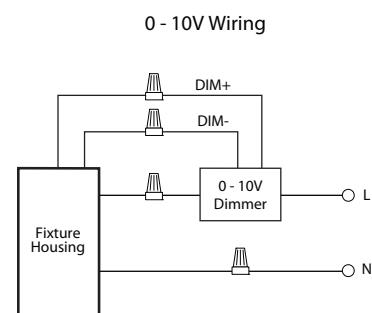
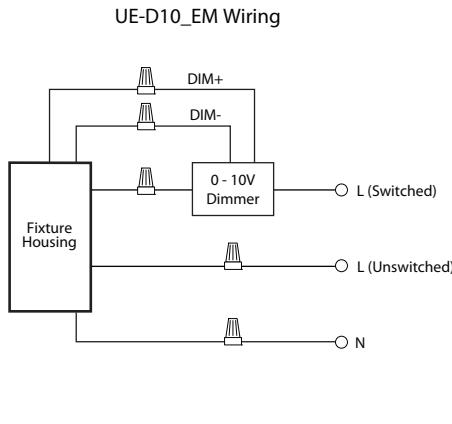
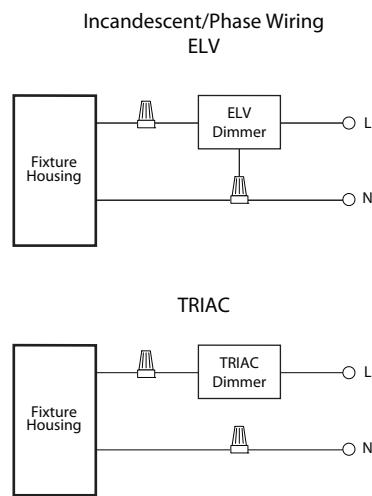
0-10V Driver 120V/277V (UE-D10):

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.



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.

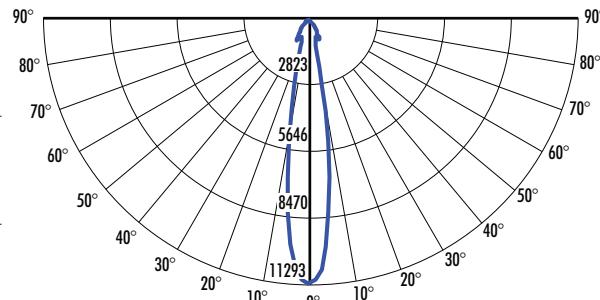
Emergency Options

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).

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

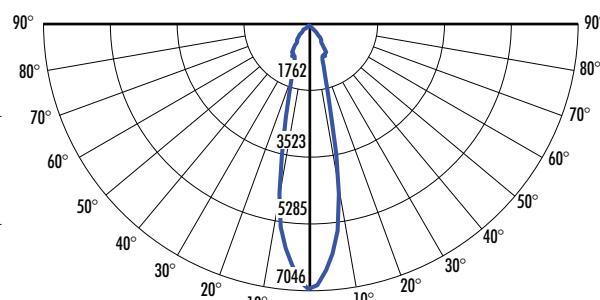
CANDELA TABULATION

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

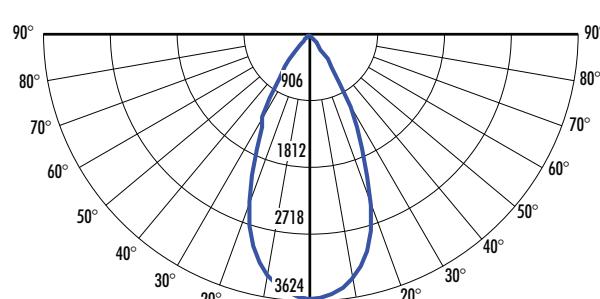
CANDELA TABULATION

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

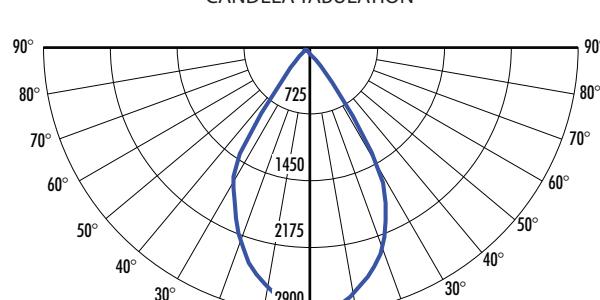
CANDELA TABULATION

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

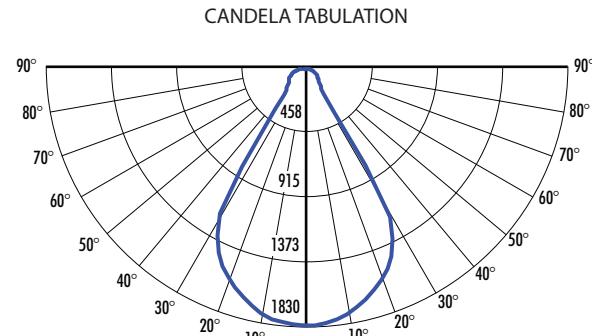
MULTIPLIERS	
REFLECTOR FINISH	
CW:	1.00
SS:	0.99
SW:	0.99
WW:	0.96
CCT	
2700K:	0.91
3000K:	0.97
3500K:	1.00
4000K:	1.04
Lumens	
1000lm:	0.42
1400lm:	0.56
1900lm:	0.77
2500lm:	1.00

CANDELA TABULATION

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