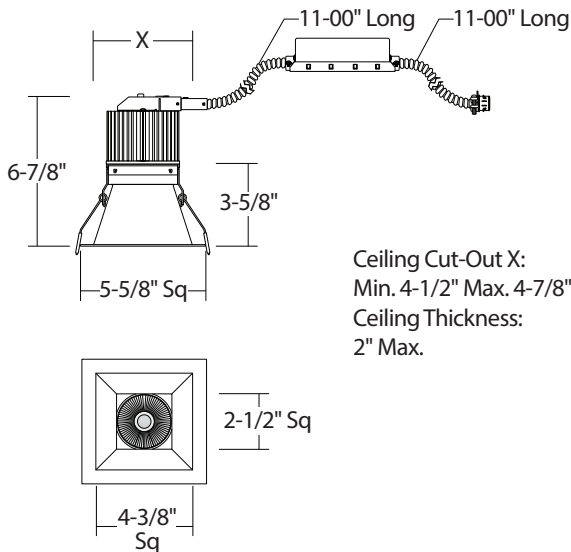


CRTR4QLC : 4" C-SERIES

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



- Heavy-duty seamless die-cast reflector
- Assortment of dimming options
- COB LED design for concentrated high CBCP beam
- Multiple beam spreads for flexible beam control
- Twist and lock reflector for quick access to LED lamp array

ORDERING : CRTR4QLC10SW-B40-T27UE-D10-JB-CHP

CRTR4QLC						
Fixture/Lumens	Insulation Contact	Reflector Finish	Beam Spread	CCT	Driver Options	J-Box
	Insulation Contact Non-IC Blank ICA Rated ICA³ Airtight		Beam Spread 15° Spot -B15 25° Narrow Flood -B25 40° Flood -B40 60° Wide Flood -B60 75° Very Wide Flood -B75			J-Box None Blank Junction Box -JB Junction Box -JB-CHP (Chicago Plenum)
Fixture/Lumens	Reflector Finish	CCT	Driver Options ¹			
1000lm (10W) CRTR4QLC10	Satin Haze Reflector/ White Ring SW	2700K (90 CRI) -T27	0-10V Dimming UE-D10			
1400lm (15W) CRTR4QLC15		2700K (97 CRI) -T27-C97	Integral EM Backup UE-D10-EM			
1900lm (20W) CRTR4QLC19	White Reflector/ White Ring WW	3000K (90 CRI) -T30	120V ELV and Triac Dimming -DIN			
2500lm (30W) CRTR4QLC25	All Black BB	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-D10²			
		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 CRTR4QLC10.

³ ICA is only available for CRTR4QLC10, CRTR4QLC15, and CRTR4QLC19.

SPECIFICATION

Application

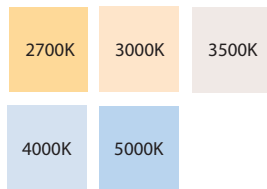
Architectural/Commercial-grade recessed (COB) Chip on Board Beam Control LED retrofit/remodel downlight allows for concentrated high center beam candlepower. Twist and lock TIR beam control optic is designed for easy field replacement of multiple beam spread options. Designed for commercial and architectural spaces with medium to high ceilings.

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

(CRTR4QLC10), (CRTR4QLC15), and (CRTR4QLC19) 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

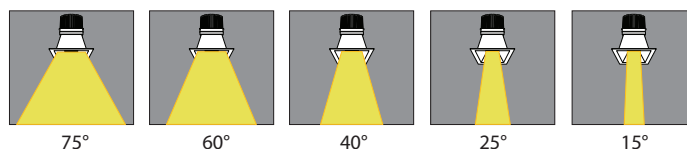
Our LED lamp array is replaceable via our on board quick disconnect terminal. Meets CA Title 24 Requirements and other standards restricting the use of Medium Base or Bi-Pin Sockets.

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.



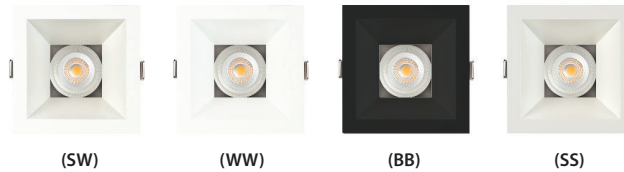
SPECIFICATION (Continued)

Reflector

Field adjustable twist and lock reflector is easily removable to provide quick access to LED lamp array.

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. Available in Satin Haze Reflector/White Finish, White Reflector/White Finish, All Black, 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 to UL1598 and UL8750. Suitable for dry locations.
NYC approved: Calendar #41937.

Caution

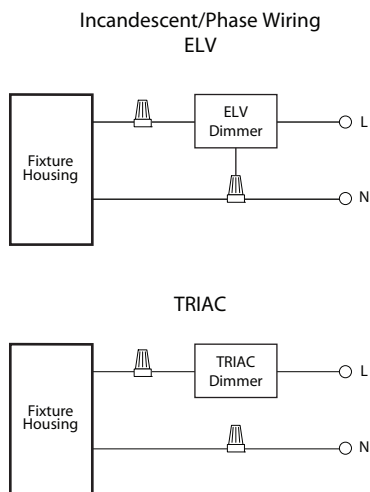
LITON recommends use of surge protectors on the power entering LED Housings. Surge damage is not covered by warranty. (+1KV). Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

SPECIFICATION (Continued)

Dimming Options

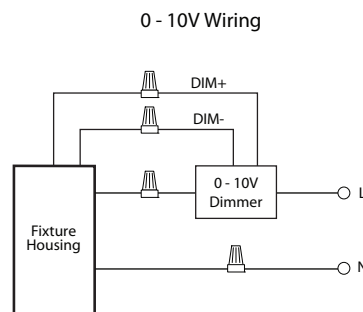
ELV and TRIAC Driver 120V (-DIN):

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.



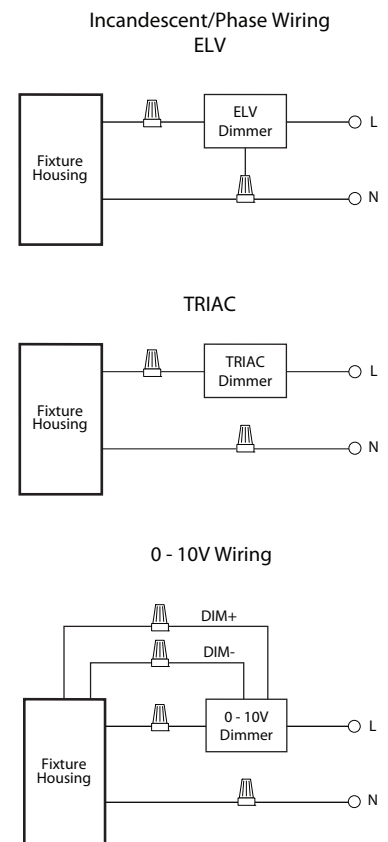
0-10V Driver 120V/277V (UE-D10):

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

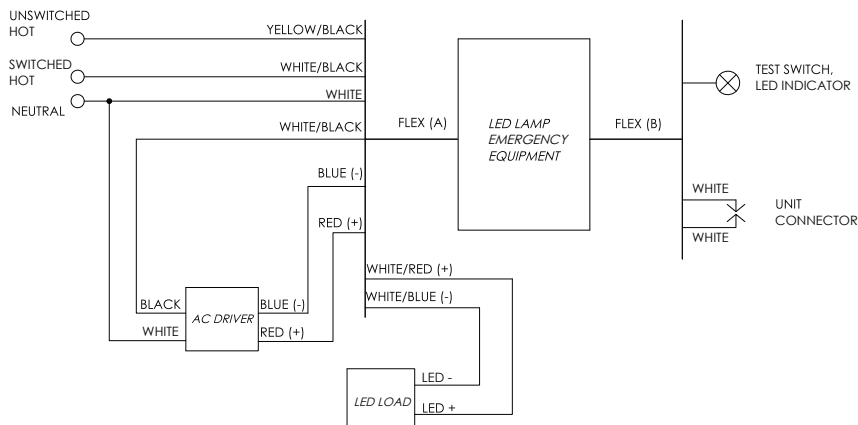
Emergency LED Battery Back-up available, remotely mounted adjacently by the installer.
When AC power fails, the device immediately switches to the emergency mode, operating the LEDs for a minimum of 90 minutes. Remote test switch and plate cover included. Optional Generator Transfer Device switches the 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.

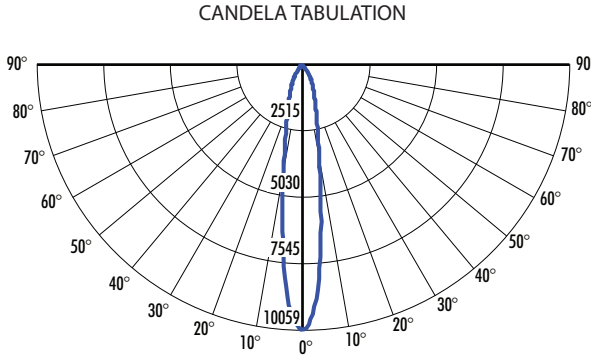


Input Voltage:	120-277VAC/60Hz
Output Voltage:	10W
Wattage:	10W
Switching Time:	<3s
Charging Time:	12h
Operating Time:	90 minutes
Minimum Temperature:	0°C
Maximum Temperature:	48°C
Maximum Lumens:	800lm
Self-Diagnostic:	Yes

PHOTOMETRY

CRTR4QLC25WW-B15-T40UE-D10 (2500lm, 30W, 15°, 4000K)

System Power:	30W	MULTIPLIERS
Test Date:	01/2024	CCT
Beam Angle 50%:	16.6°	2700K : 0.87
Field Angle 10%:	50.0°	3000K : 0.92
Color Temperature:	4019K	3500K : 0.96
CRI:	91.0	4000K : 1.00
Lumens Delivered:	2196	Lumens
CBCP:	10059.3	1000lm: 0.40
Power Factor:	0.99	1400lm: 0.55
		1900lm: 0.76
		2500lm: 1.00

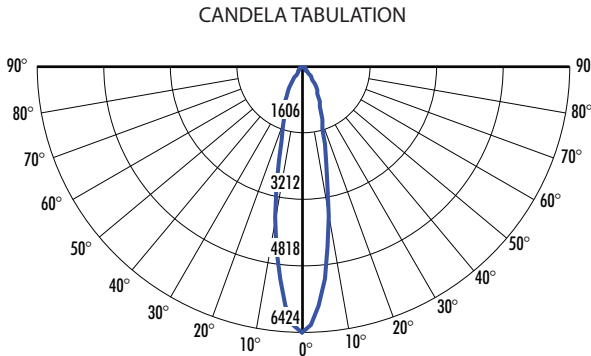


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	2.33'	157.18
10.0'	2.92'	100.59
12.0'	3.50'	69.86
14.0'	4.08'	51.32
16.0'	4.67'	39.29

CRTR4QLC25WW-B25-T40UE-D10 (2500lm, 30W, 25°, 4000K)

System Power:	30W	MULTIPLIERS
Test Date:	01/2024	CCT
Beam Angle 50%:	22.7°	2700K : 0.87
Field Angle 10%:	63.3°	3000K : 0.92
Color Temperature:	3988K	3500K : 0.96
CRI:	90.8	4000K : 1.00
Lumens Delivered:	2098	Lumens
CBCP:	6423.7	1000lm: 0.40
Power Factor:	0.99	1400lm: 0.55
		1900lm: 0.76
		2500lm: 1.00

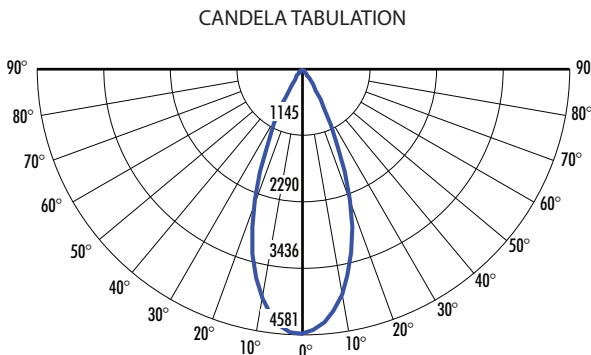


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	3.21'	100.37
10.0'	4.01'	64.24
12.0'	4.82'	44.61
14.0'	5.62'	32.77
16.0'	6.42'	25.09

CRTR4QLC25WW-B40-T40UE-D10 (2500lm, 30W, 40°, 4000K)

System Power:	30W	MULTIPLIERS
Test Date:	01/2024	CCT
Beam Angle 50%:	41.1°	2700K : 0.87
Field Angle 10%:	68.2°	3000K : 0.92
Color Temperature:	4005K	3500K : 0.96
CRI:	90.9	4000K : 1.00
Lumens Delivered:	2432	Lumens
CBCP:	4580.8	1000lm: 0.40
Power Factor:	0.99	1400lm: 0.55
		1900lm: 0.76
		2500lm: 1.00

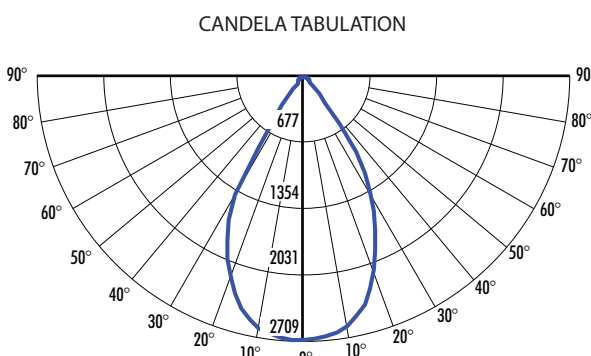


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	6.00'	71.57
10.0'	7.50'	45.81
12.0'	9.00'	31.81
14.0'	10.50'	23.37
16.0'	12.00'	17.89

CRTR4QLC25WW-B60-T40UE-D10 (2500lm, 30W, 60°, 4000K)

System Power:	30W	MULTIPLIERS
Test Date:	01/2024	CCT
Beam Angle 50%:	59.9°	2700K : 0.87
Field Angle 10%:	81.6°	3000K : 0.92
Color Temperature:	4016K	3500K : 0.96
CRI:	91.0	4000K : 1.00
Lumens Delivered:	2487	Lumens
CBCP:	2708.6	1000lm: 0.40
Power Factor:	0.99	1400lm: 0.55
		1900lm: 0.76
		2500lm: 1.00



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	9.22'	42.32
10.0'	11.52'	27.09
12.0'	13.83'	18.81
14.0'	16.13'	13.82
16.0'	18.44'	10.58

LITON[®]

CRTR4QLC : 4" C-SERIES

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

PHOTOMETRY (Continued)

CRTR4QLC25WW-B75-T40UE-D10 (2500lm, 30W, 75°, 4000K)

