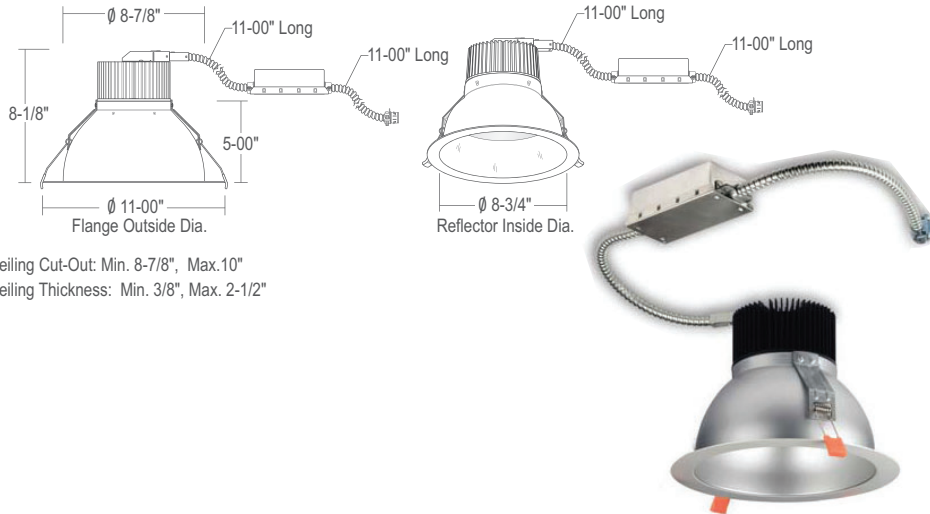


CRTR9L - 9"/10" C·SERIES

LED DOWNLIGHT RETROFIT/REMODEL 1000LM-6200LM (9W-55W)



Ceiling Cut-Out: Min. 8-7/8", Max. 10"
Ceiling Thickness: Min. 3/8", Max. 2-1/2"



- New junction box option for remodels without frames
- Spring mounting included (for retrofits)
- Twist and lock reflector for quick access to LED lamp array.
- Heavy-duty self-flanged reflector
- No visible screws or hardware

ORDERING : CRTR9L10ICASWUE-DUN-T30-JB

CRTR9L							
Fixture/Lumens	Insulation Contact	Reflector Finish	Driver Options	CCT	J-Box		
	Insulation Contact		Driver Options ²		J-Box		
	Non-IC	Blank	0-10V Dimming	UE-D10	None	Blank	
	IC Rated/Airtight	ICA ⁵	UniDim™ 0-10V ELV and Triac Dimming	UE-DUN	Junction Box	-JB	
			120V ELV and Triac Dimming	-DIN	Junction Box (Chicago Plenum)	-JB-CHP	
			Lutron HighLume	UE-DHL			
			Lutron EcoSystem	UE-ECO			
			347V	-347 ⁶			
			0-10V Dimming (1%)	UE-D10P1			
			Integral 10W	UE-EMA			
			Emergency, 0-10V Dimming				
			DMX 0.1% Dimming	UE-DMX			
					CCT		
					2700K (84 CRI)	-T27 ⁷	
					3000K (84 CRI)	-T30	
					3500K (84 CRI)	-T35	
					4000K (84 CRI)	-T40	
					5000K (84 CRI)	-T50 ⁹	

Fixture/Lumens	Reflector Finish
1000lm (9W) CRTR9L08	Satin Haze Reflector/ White Ring SW
2000lm (17W) CRTR9L10	White Reflector/ White Ring WW
2400lm (22W) CRTR9L15	All Black BB
2900lm (28W) CRTR9L22	Clear Specular Reflector/White Ring CW
3300lm (32W) CRTR9L24	All Satin Haze SS
3800lm (35W) CRTR9L29	
4100lm (39W) CRTR9L30	
4800lm (48W) CRTR9L36	
5300lm (55W) CRTR9L40⁸	
5600lm (45W) CRTR9L50	
6200lm (50W) CRTR9L60	

² All drivers are 120V/277V unless otherwise noted.

⁵ (ICA) is only available on CRTR9L08, CRTR9L10 and CRTR9L15.

⁶ (-347) not available for CRTR9L08.

⁷ (-T27) not available for CRTR9L60.

⁸ CRTR9L40 only available with UE-D10, UE-D10P1 and -347 dimming options.

⁹ (-T50) not available with CRTR9L50 and CRTR9L60.

SPECIFICATION

Application

Architectural/Commercial-grade recessed lensed LED retrofit/remodel downlight for low to high ceilings with existing open style frame.

Retrofit Mounting

Designed for use with existing 9" Architectural, Housings like LITON Brand LVH91, and LH900. Also replaces 10" downlights. Supplied with flexible metal conduit for connection to existing electrical junction box. Uses existing frame-in-kit's mounting method via clips or heavy duty tension springs that are provided. 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.

Driver

120V/277V AC 50/60Hz Electronic Direct Current Class 2. Input current 0.50 Amps at 115VAC. Power Factor > 0.90. Operating Temperature: -20°C to +50°C / -4°F to +131°F. Accessible from above or below ceiling.

Standard 0-10V works with most 5-wire, 0-10V dimmers. Factory qualified for use with Leviton IP710-DLZ.

(UE-DUN) Uni-Dim™ dimming option is a universal dimming system that works with most 120V, 3-wire ELV, 2-wire incandescent, and 120V/277V, 5-wire, 0-10V fluorescent dimmers.

(-DIN) dimming option smoothly dims down to 5% of initial light output with flicker-free performance. Works with standard 120V incandescent dimmers.

(UE-DHL) Lutron HiLume is a 3-wire driver that provides smooth, continuous 1% dimming for virtually any LED fixture.

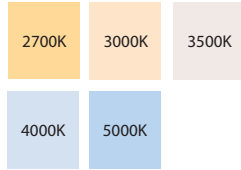
(UE-ECO) Works with Lutron EcoSystem digital controls. Precision microprocessor control and integral thermal management deliver energy savings and extended product life.

(-347) is a 0-10V driver that takes 347V input.

(UE-D10P1) 0-10V dims down to 1% and works with most 120V/277V, 5-wire, 0-10V dimmers.

SPECIFICATION (Continued)

Color Temperature



Available in 2700K, 3000K, 3500K, 4000K and 5000K.

Insulation Contact

Non-IC rated housing must be kept 3" from loose-fill insulation. IC rated option for direct insulation contact.

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.

Reflector

Field adjustable twist and lock reflector is easily removable 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.

Reflector Finish

1-piece, self-flanged, dual reflector LED design enables a clean trim finish without 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 and Clear Specular Reflector White Ring.

Junction Box

(-JB) option is 18-gauge pre-wired aluminum Junction Box, 18 cubic-inch for a maximum of (6) #12AWG wires. Furnished with (2) 1/2" knockouts. Strain clamps to install or remove covers for easy access and ground wire.
(-JB-CHP) option is Chicago Plenum, air-tight Junction Box.

SPECIFICATION (Continued)

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, damp, 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.

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.

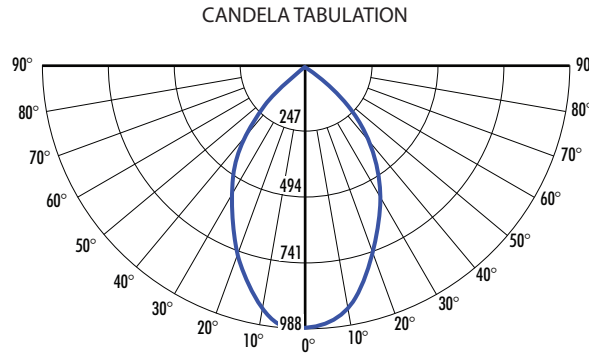
Emergency Options

Integral Emergency LED Battery Back-up available. When AC power fails, the device immediately switches to the emergency mode, operating the LEDs for a minimum of 90 minutes. Test switch mounted on reflector face. 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

CRTR9L08CWUE-D10-T40 (1000lm, 9W, 4000K)

System Power:	11W	MULTIPLIERS
Test Date:	09/2023	REFLECTOR FINISH
Beam Angle 50%:	67.4°	CW : 1.00
Field Angle 10%:	102.6°	SS : 0.90
Color Temperature:	3866K	SW : 0.88
CRI:	82.9	WW : 0.66
Lumens Delivered:	1150	CCT
CBCP:	988.4	2700K : 1.04
Power Factor:	0.99	3000K : 1.01
		3500K : 1.12
		4000K : 1.00

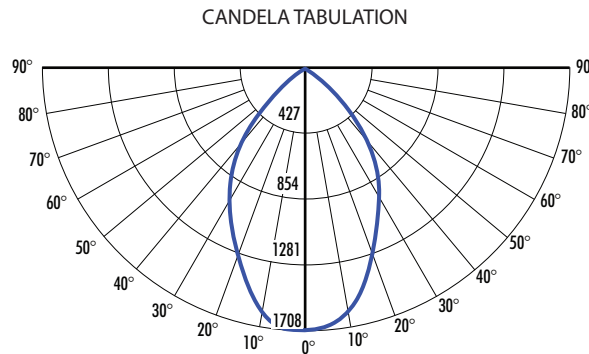


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
12.0'	16.01'	6.82
14.0'	18.67'	5.01
16.0'	21.34'	3.84
18.0'	24.01'	3.03
20.0'	26.68'	2.46

CRTR9L10CWUE-D10-T40 (2000lm, 17W, 4000K)

System Power:	17W	MULTIPLIERS
Test Date:	09/2023	REFLECTOR FINISH
Beam Angle 50%:	67.8°	CW : 1.00
Field Angle 10%:	102.8°	SS : 0.90
Color Temperature:	3889K	SW : 0.88
CRI:	82.5	WW : 0.66
Lumens Delivered:	1998	CCT
CBCP:	1707.1	2700K : 1.04
Power Factor:	0.99	3000K : 1.01
		3500K : 1.12
		4000K : 1.00

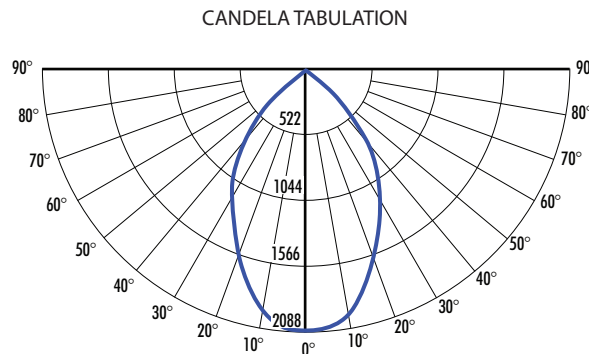


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
12.0'	16.13'	11.84
14.0'	18.82'	8.70
16.0'	21.50'	6.66
18.0'	24.19'	5.26
20.0'	26.89'	4.26

CRTR9L15CWUE-D10-T40 (2400lm, 22W, 4000K)

System Power:	22W	MULTIPLIERS
Test Date:	09/2023	REFLECTOR FINISH
Beam Angle 50%:	67.8°	CW : 1.00
Field Angle 10%:	102.9°	SS : 0.90
Color Temperature:	3902K	SW : 0.88
CRI:	82.4	WW : 0.66
Lumens Delivered:	2445	CCT
CBCP:	2086.1	2700K : 1.04
Power Factor:	0.99	3000K : 1.01
		3500K : 1.12
		4000K : 1.00

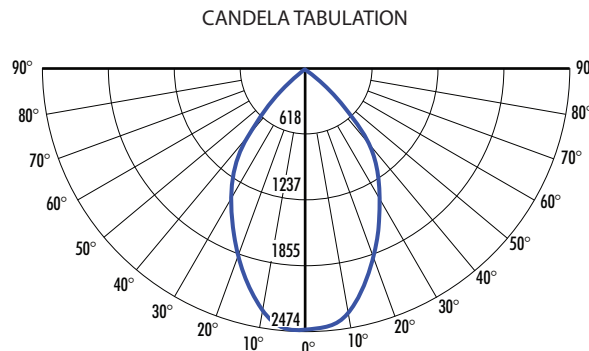


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
12.0'	16.13'	14.47
14.0'	18.82'	10.63
16.0'	21.50'	8.14
18.0'	24.19'	6.43
20.0'	26.88'	5.21

CRTR9L22CWUE-D10-T40 (2900lm, 28W, 4000K)

System Power:	28W	MULTIPLIERS
Test Date:	09/2023	REFLECTOR FINISH
Beam Angle 50%:	67.8°	CW : 1.00
Field Angle 10%:	102.9°	SS : 0.90
Color Temperature:	3917K	SW : 0.88
CRI:	82.2	WW : 0.66
Lumens Delivered:	2897	CCT
CBCP:	2471.7	2700K : 1.04
Power Factor:	0.99	3000K : 1.01
		3500K : 1.12
		4000K : 1.00



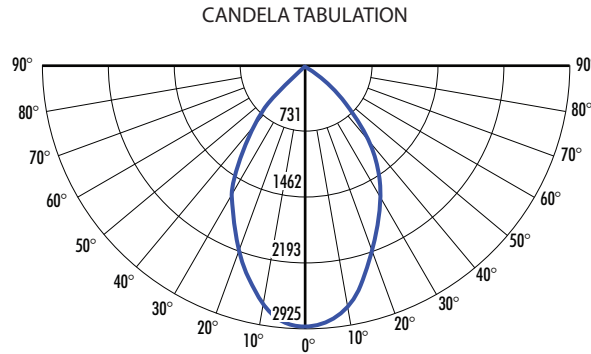
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
12.0'	16.13'	17.15
14.0'	18.82'	12.60
16.0'	21.50'	9.65
18.0'	24.19'	7.62
20.0'	26.89'	6.17

PHOTOMETRY (Continued)

CRTR9L24CWUE-D10-T40 (3300lm, 32W, 4000K)

System Power:	31W	MULTIPLIERS
Test Date:	09/2023	REFLECTOR FINISH
Beam Angle 50%:	67.5°	CW : 1.00
Field Angle 10%:	102.4°	SS : 0.90
Color Temperature:	3911K	SW : 0.88
CRI:	82.4	WW : 0.66
Lumens Delivered:	3361	CCT
CBCP:	2922	2700K : 1.04
Power Factor:	0.99	3000K : 1.01
		3500K : 1.12
		4000K : 1.00

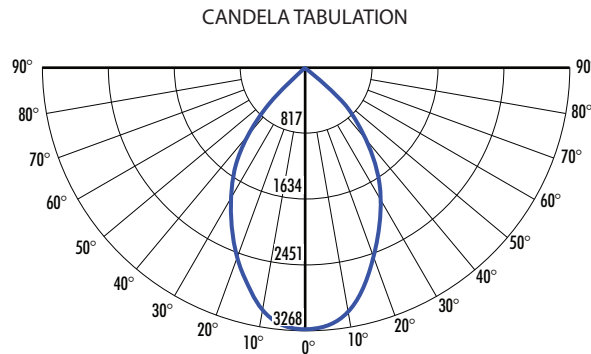


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
12.0'	16.04'	20.28
14.0'	18.71'	14.90
16.0'	21.38'	11.41
18.0'	24.05'	9.01
20.0'	26.73'	7.30

CRTR9L29CWUE-D10-T40 (3800lm, 35W, 4000K)

System Power:	36W	MULTIPLIERS
Test Date:	09/2023	REFLECTOR FINISH
Beam Angle 50%:	68.2°	CW : 1.00
Field Angle 10%:	103.0°	SS : 0.90
Color Temperature:	3924K	SW : 0.88
CRI:	82.4	WW : 0.66
Lumens Delivered:	3852	CCT
CBCP:	3265.4	2700K : 1.04
Power Factor:	0.99	3000K : 1.01
		3500K : 1.12
		4000K : 1.00

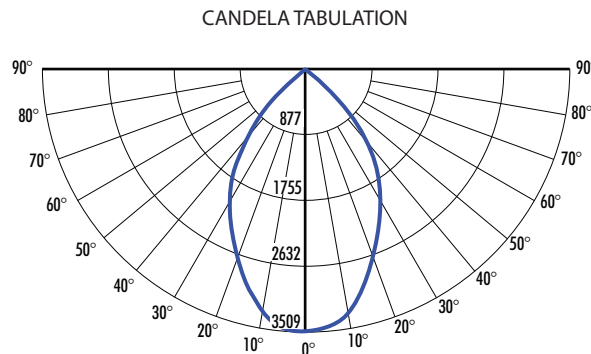


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
12.0'	16.25'	22.66
14.0'	18.96'	16.65
16.0'	21.67'	12.75
18.0'	24.37'	10.07
20.0'	27.08'	8.16

CRTR9L30CWUE-D10-T40 (4100lm, 39W, 4000K)

System Power:	39W	MULTIPLIERS
Test Date:	09/2023	REFLECTOR FINISH
Beam Angle 50%:	68.2°	CW : 1.00
Field Angle 10%:	103.1°	SS : 0.90
Color Temperature:	3920K	SW : 0.88
CRI:	82.3	WW : 0.66
Lumens Delivered:	4137	CCT
CBCP:	3506.4	2700K : 1.04
Power Factor:	0.99	3000K : 1.01
		3500K : 1.12
		4000K : 1.00

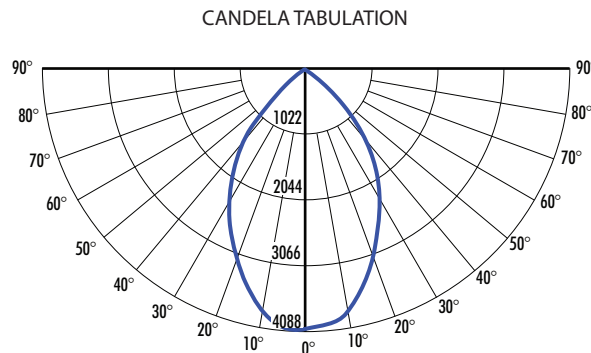


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
12.0'	16.25'	24.34
14.0'	18.96'	17.88
16.0'	21.67'	13.69
18.0'	24.37'	10.82
20.0'	27.08'	8.76

CRTR9L36CWUE-D10-T40 (4800lm, 48W, 4000K)

System Power:	48W	MULTIPLIERS
Test Date:	09/2023	REFLECTOR FINISH
Beam Angle 50%:	68.2°	CW : 1.00
Field Angle 10%:	103.0°	SS : 0.90
Color Temperature:	3938K	SW : 0.88
CRI:	82.2	WW : 0.66
Lumens Delivered:	4818	CCT
CBCP:	4084	2700K : 1.04
Power Factor:	0.99	3000K : 1.01
		3500K : 1.12
		4000K : 1.00



FOOTCANDLE DISTRIBUTION

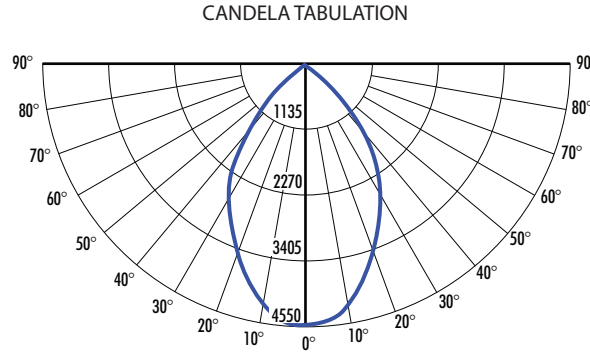
Height	Beam Diameter	FC
12.0'	16.25'	28.34
14.0'	18.96'	20.82
16.0'	21.67'	15.94
18.0'	24.37'	12.59
20.0'	27.08'	10.20

PHOTOMETRY (Continued)

CRTR9L40CWUE-D10-T40 (5300lm, 55W, 4000K)

System Power: 53W
 Test Date: 09/2023
 Beam Angle 50%: 67.9°
 Field Angle 10%: 102.6°
 Color Temperature: 3929K
 CRI: 83.5
 Lumens Delivered: 5300
 CBCP: 4540.4
 Power Factor: 0.99

MULTIPLIERS	
REFLECTOR FINISH	
CW :	1.00
SS :	0.90
SW :	0.88
WW :	0.66
CCT	
2700K :	1.04
3000K :	1.01
3500K :	1.12
4000K :	1.00



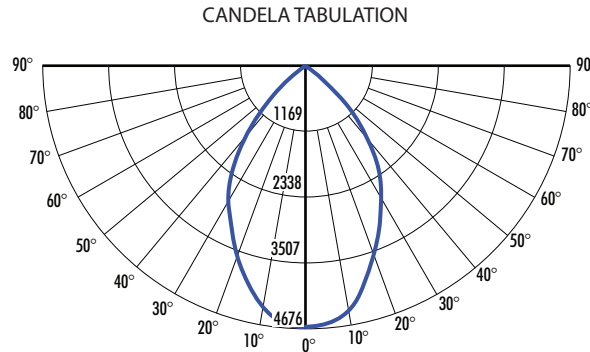
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
12.0'	16.16'	31.33
14.0'	18.85'	23.17
16.0'	21.54'	17.74
18.0'	24.24'	14.01
20.0'	26.93'	11.35

CRTR9L50CWUE-D10-T40 (5600lm, 45W, 4000K)

System Power: 42W
 Test Date: 09/2023
 Beam Angle 50%: 68.9°
 Field Angle 10%: 103.6°
 Color Temperature: 3939K
 CRI: 83.4
 Lumens Delivered: 5610
 CBCP: 4672.3
 Power Factor: 0.99

MULTIPLIERS	
REFLECTOR FINISH	
CW :	1.00
SS :	0.90
SW :	0.88
WW :	0.66
CCT	
2700K :	1.04
3000K :	1.01
3500K :	1.12
4000K :	1.00



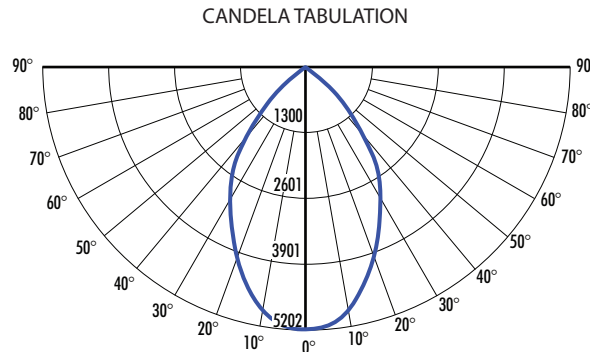
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
12.0'	16.46'	32.42
14.0'	19.21'	23.82
16.0'	21.95'	18.24
18.0'	24.70'	14.41
20.0'	27.44'	11.67

CRTR9L60CWUE-D10-T40 (6200lm, 50W, 4000K)

System Power: 49W
 Test Date: 09/2023
 Beam Angle 50%: 68.3°
 Field Angle 10%: 103.3°
 Color Temperature: 4111K
 CRI: 84.1
 Lumens Delivered: 6159
 CBCP: 5201.4
 Power Factor: 0.99

MULTIPLIERS	
REFLECTOR FINISH	
CW :	1.00
SS :	0.90
SW :	0.88
WW :	0.66
CCT	
2700K :	1.04
3000K :	1.01
3500K :	1.12
4000K :	1.00



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
12.0'	16.28'	36.12
14.0'	18.99'	26.54
16.0'	21.71'	20.32
18.0'	24.42'	16.05
20.0'	27.13'	13.00