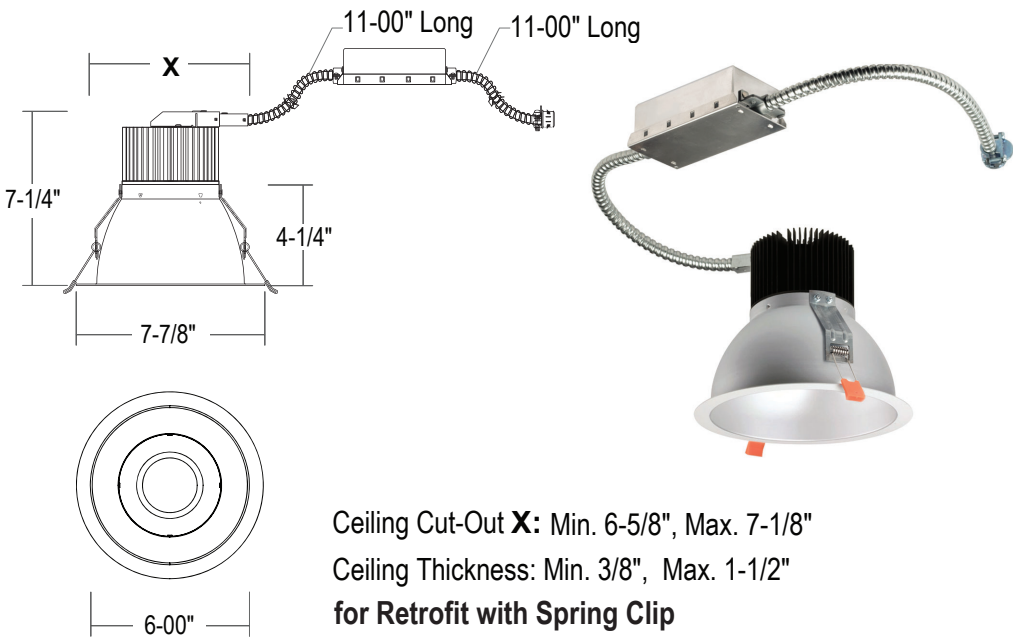


CRTR6LS : 6" C·SERIES

LUMEN/COLORSELECT RETROFIT/REMODEL 1900LM - 4900LM (17W-55W)



US Assembled

IC Rated

Emergency Backup

Ambient Light

Downlight

ETL
LISTED
Intertek

120V

277V

Wet

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

ORDERING : CRTR6LS1928SWUE-D10-TS354

CRTR6LSxxxx				Junction Box	
LumenSelect Reflector	IC Option	Reflector Finish	Dimming	ColorSelect	Junction Box
LumenSelect Reflector	IC Option	Reflector Finish	Dimming ¹	ColorSelect	Junction Box
	Non-IC				None
	IC Rated/ Airtight				Junction Box
					Junction Box (Chicago Plenum)
1900lm (17W)	Blank	Satin Haze Reflector/ White Ring	0-10V Dimming (120V/277V)	UE-D10	Blank
2300lm (22W)	ICA ²	White Reflector/ White Ring	Athena Wireless Node	-AWN	-JB
2800lm (28W)		All Black	Athena Wireless Node Occupancy Sensor	-AWN-OCC	-JB-CHP
3100lm (30W)		Clear Specular Reflector/White Ring			
3800lm (38W)		All Satin Haze			
4500lm (48W)					
3600lm (35W)					
4200lm (45W)					
4900lm (55W)					

CRTR6LS1928	DRIVER SET LOW	DRIVER SET MID	DRIVER SET HIGH
LUMENS (delivered)	1900	2300	2800
CRTR6LS3145	DRIVER SET LOW	DRIVER SET MID	DRIVER SET HIGH
LUMENS (delivered)	3100	3800	4500
CRTR6LS3649	DRIVER SET LOW	DRIVER SET MID	DRIVER SET HIGH
LUMENS (delivered)	3600	4200	4900

¹ All drivers are 120V/277V unless otherwise noted.
² (ICA) is only available on 1900lm (17W), and 2300lm (22W)

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 6" 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 3000K, 3500K and 4000K in 84 CRI.

Insulation Contact

CRTR6LS1826 set to 17W (1900lm) 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.

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.

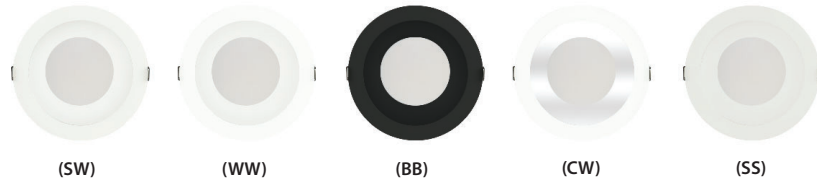
SPECIFICATION (Continued)

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

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

(-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

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.

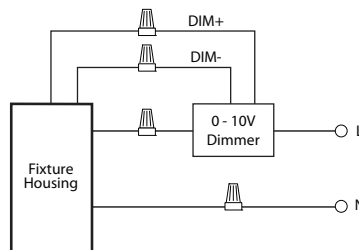
SPECIFICATION (Continued)

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)



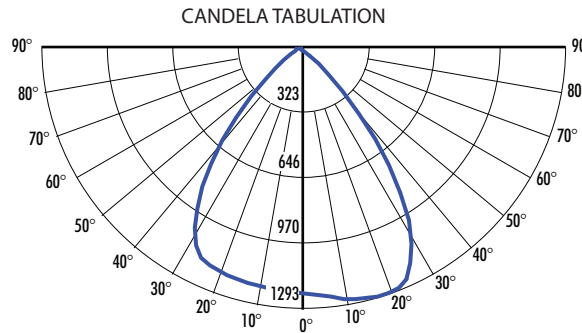
Radio frequency (RF) device for digital control of light fixtures in an Athena control system. Athena wireless processor or Clear Connect gateway-Type X is required to operate wireless node.

- 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

PHOTOMETRY

CRTR6LS1928CWUE-D10-TS40_LOW (1900lm, 17W, 4000K)

System Power:	17W	MULTIPLIERS	
Test Date:	10/2023	REFLECTOR FINISH	
Beam Angle 50%:	78.0°	CW :	1.00
Field Angle 10%:	102.3°	SS :	0.90
Color Temperature:	3893K	SW :	0.88
CRI:	82.6	WW :	0.81
Lumens Delivered:	1873	CCT	
CBCP:	1293	2700K :	1.04
Power Factor:	0.99	3000K :	1.01
		3500K :	1.12
		4000K :	1.00

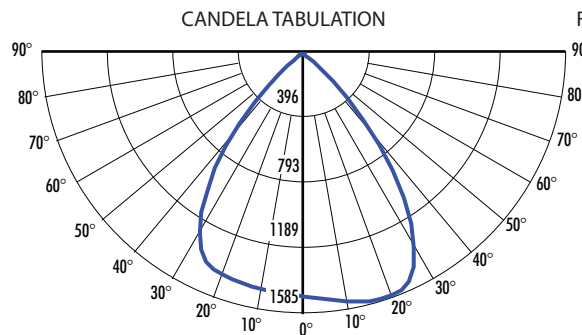


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	12.96'	18.92
10.0'	16.20'	12.11
12.0'	19.43'	8.41
14.0'	22.67'	6.18
16.0'	25.91'	4.73

CRTR6LS1928CWUE-D10-TS40_MID (2300lm, 22W, 4000K)

System Power:	22W	MULTIPLIERS	
Test Date:	10/2023	REFLECTOR FINISH	
Beam Angle 50%:	78.1°	CW :	1.00
Field Angle 10%:	102.8°	SS :	0.90
Color Temperature:	3899K	SW :	0.88
CRI:	82.4	WW :	0.81
Lumens Delivered:	2313	CCT	
CBCP:	1585	2700K :	1.04
Power Factor:	0.99	3000K :	1.01
		3500K :	1.12
		4000K :	1.00

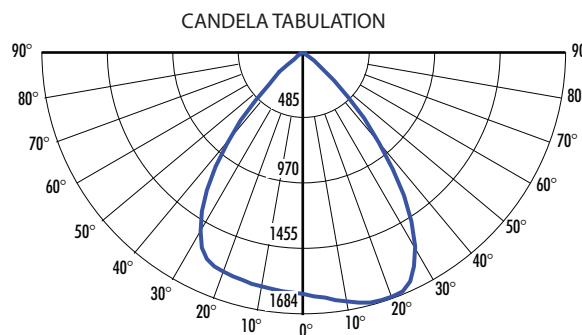


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	12.98'	23.29
10.0'	16.22'	14.90
12.0'	19.47'	10.35
14.0'	22.71'	7.60
16.0'	25.96'	5.82

CRTR6LS1928CWUE-D10-TS40_HIGH (2800lm, 28W, 4000K)

System Power:	28W	MULTIPLIERS	
Test Date:	10/2023	REFLECTOR FINISH	
Beam Angle 50%:	77.8°	CW :	1.00
Field Angle 10%:	102.6°	SS :	0.90
Color Temperature:	3903K	SW :	0.88
CRI:	82.2	WW :	0.81
Lumens Delivered:	2803	CCT	
CBCP:	1940	2700K :	1.04
Power Factor:	0.99	3000K :	1.01
		3500K :	1.12
		4000K :	1.00



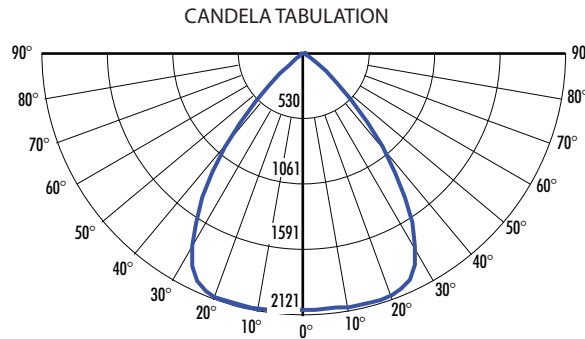
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	12.91'	28.19
10.0'	16.14'	18.04
12.0'	19.37'	12.53
14.0'	22.59'	9.20
16.0'	25.82'	7.05

PHOTOMETRY (Continued)

CRTR6LS3145CWUE-D10-TS40_LOW (3100lm, 30W, 4000K)

System Power:	30W	MULTIPLIERS	
Test Date:	10/2023	REFLECTOR FINISH	
Beam Angle 50%:	78.5°	CW :	1.00
Field Angle 10%:	103.0°	SS :	0.90
Color Temperature:	3902K	SW :	0.88
CRI:	82.1	WW :	0.81
Lumens Delivered:	3182	CCT	
CBCP:	2121	2700K :	1.04
Power Factor:	0.99	3000K :	1.01
		3500K :	1.12
		4000K :	1.00

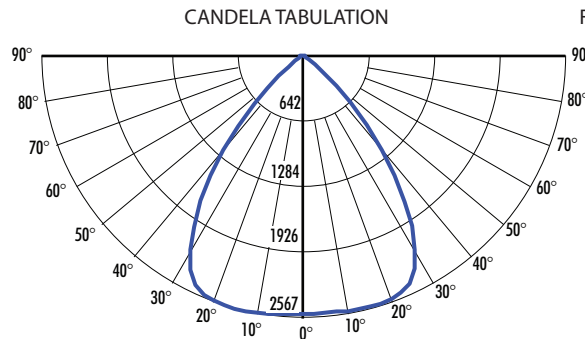


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	13.07'	32.63
10.0'	16.34'	20.88
12.0'	19.61'	14.50
14.0'	22.88'	10.66
16.0'	26.15'	8.16

CRTR6LS3145CWUE-D10-TS40_MID (3800lm, 38W, 4000K)

System Power:	39W	MULTIPLIERS	
Test Date:	10/2023	REFLECTOR FINISH	
Beam Angle 50%:	78.5°	CW :	1.00
Field Angle 10%:	103.1°	SS :	0.90
Color Temperature:	3916K	SW :	0.88
CRI:	82.0	WW :	0.81
Lumens Delivered:	3850	CCT	
CBCP:	2567	2700K :	1.04
Power Factor:	0.99	3000K :	1.01
		3500K :	1.12
		4000K :	1.00

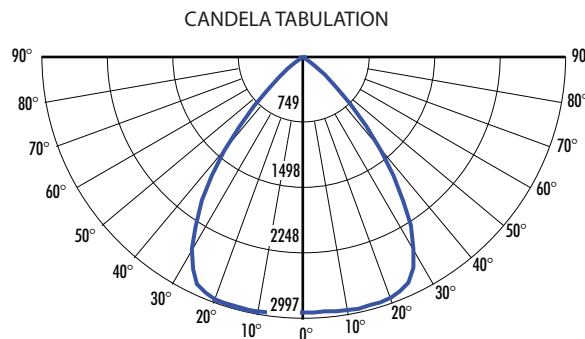


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	13.07'	39.51
10.0'	16.34'	25.29
12.0'	19.61'	17.56
14.0'	22.88'	12.90
16.0'	26.15'	9.88

CRTR6LS3145CWUE-D10-TS40_HIGH (4500lm, 48W, 4000K)

System Power:	48W	MULTIPLIERS	
Test Date:	10/2023	REFLECTOR FINISH	
Beam Angle 50%:	78.6°	CW :	1.00
Field Angle 10%:	103.2°	SS :	0.90
Color Temperature:	3932K	SW :	0.88
CRI:	81.9	WW :	0.81
Lumens Delivered:	4505	CCT	
CBCP:	2997	2700K :	1.04
Power Factor:	0.99	3000K :	1.01
		3500K :	1.12
		4000K :	1.00

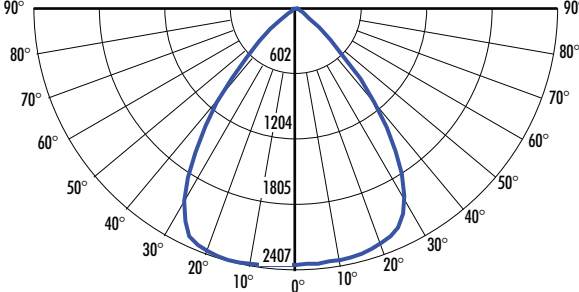
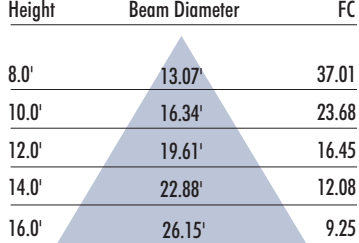


FOOTCANDLE DISTRIBUTION

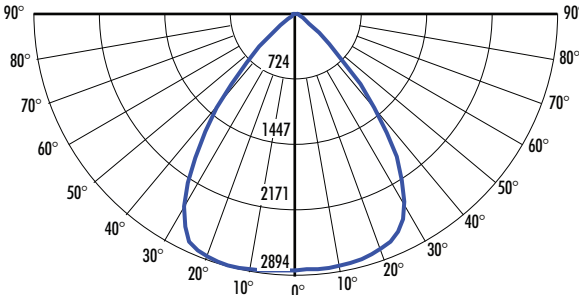
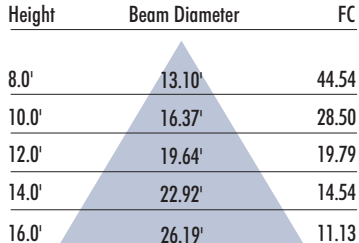
Height	Beam Diameter	FC
8.0'	13.10'	46.13
10.0'	16.37'	29.52
12.0'	19.64'	20.50
14.0'	22.92'	15.06
16.0'	26.19'	11.53

PHOTOMETRY (Continued)

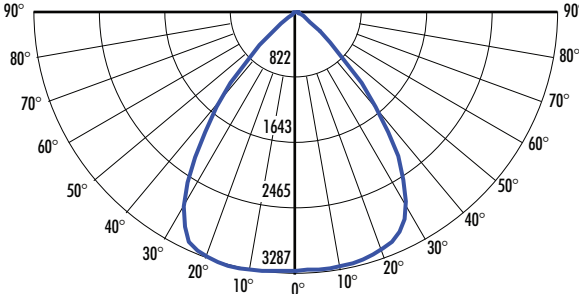
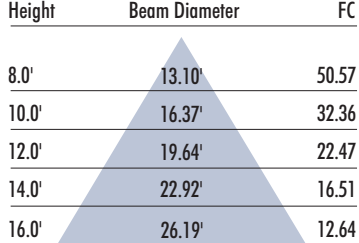
CRTR6LS3649CWUE-D10-TS40_LOW (3600lm, 35W, 4000K)

System Power:	35W	MULTIPLIERS		CANDELA TABULATION		FOOTCANDLE DISTRIBUTION	
Test Date:	10/2023	REFLECTOR FINISH					
Beam Angle 50%:	78.5°	CWI : 1.00					
Field Angle 10%:	103.4°	SS : 0.90					
Color Temperature:	3903K	SW : 0.88					
CRI:	83.4	WW : 0.81					
Lumens Delivered:	3595	CCT					
CBCP:	2407	2700K : 1.04					
Power Factor:	0.99	3000K : 1.01					
		3500K : 1.12					
		4000K : 1.00					

CRTR6LS3649CWUE-D10-TS40_MID (4200lm, 45W, 4000K)

System Power:	45W	MULTIPLIERS		CANDELA TABULATION		FOOTCANDLE DISTRIBUTION					
Test Date:	10/2023	REFLECTOR FINISH									
Beam Angle 50%:	78.6°	CW :	1.00						Height	Beam Diameter	FC
Field Angle 10%:	103.4°	SS :	0.90						8.0'	13.10'	44.54
Color Temperature:	3917K	SW :	0.88						10.0'	16.37'	28.50
CRI:	83.3	WW :	0.81						12.0'	19.64'	19.79
		CCT		14.0'	22.92'	14.54					
Lumens Delivered:	4330	2700K :	1.04	16.0'	26.19'	11.13					
CBCP:	2894	3000K :	1.01								
Power Factor:	0.99	3500K :	1.12								
		4000K :	1.00								

CRTR6LS3649CWUE-D10-TS40_HIGH (4900lm, 55W, 4000K)

System Power:	53W	MULTIPLIERS		CANDELA TABULATION		FOOTCANDLE DISTRIBUTION	
Test Date:	10/2023	REFLECTOR FINISH					
Beam Angle 50%:	78.6°	CW :	1.00				
Field Angle 10%:	103.4°	SS :	0.90				
Color Temperature:	3929K	SW :	0.88				
CRI:	83.2	WW :	0.81				
Lumens Delivered:	4918	CCT					
CBCP:	3287	2700K :	1.04				
Power Factor:	0.99	3000K :	1.01				
		3500K :	1.12				
		4000K :	1.00				