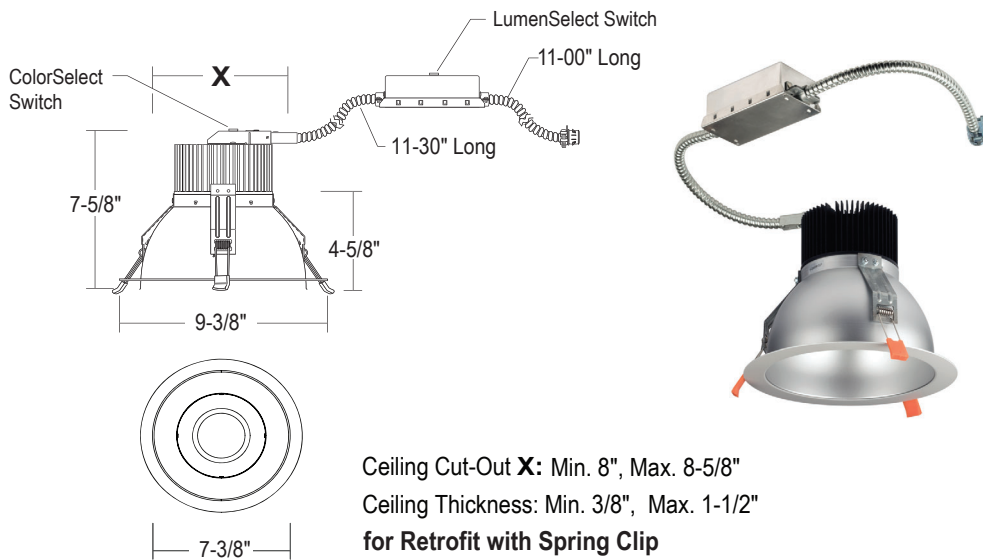


CRTR8LS : 8" C-SERIES

LUMEN/COLORSELECT RETROFIT/REMODEL 2000LM - 5300LM (17W-53W)



- 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 : CRTR8LS2029SWUE-D10-TS354

CRTR8LSxxx

- LumenSelect Reflector**
 - 2000lm (17W) **CRTR8LS2029**
 - 2400lm (22W)
 - 2900lm (28W)
 - 3300lm (31W) **CRTR8LS3348**
 - 4100lm (39W)
 - 4800lm (48W)
 - 3800lm (35W) **CRTR8LS3853**
 - 4600lm (45W)
 - 5300lm (53W)
- IC Option**
 - Non-IC **Blank**
 - IC Rated/Airtight **ICA²**
- Reflector Finish**
 - Satin Haze Reflector/White Ring **SW**
 - White Reflector/White Ring **WW**
 - All Black **BB**
 - Clear Specular Reflector/White Ring **CW**
 - All Satin Haze **SS**
- Dimming**
 - 0-10V Dimming (120V/277V) **UE-D10**
 - Athena Wireless Node **-AWN**
 - Athena Wireless Node Occupancy Sensor **-AWN-OCC**
- ColorSelect**
 - Colorselect 3000K, 3500K, 4000K (84CRI) **-TS354**
- Junction Box**
 - None **Blank**
 - Junction Box **-JB**
 - Junction Box (Chicago Plenum) **-JB-CHP**

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

² (ICA) is only available on 2000lm (17W), and 2400lm (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 8" 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

CRTR8LS2029 set to 17W (2000lm) or 22W (2400lm) 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.

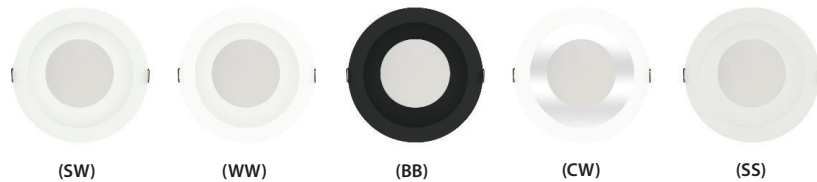
SPECIFICATION (Continued)

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.

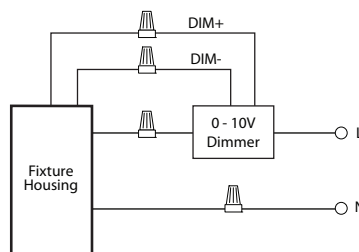
SPECIFICATION (Continued)

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)



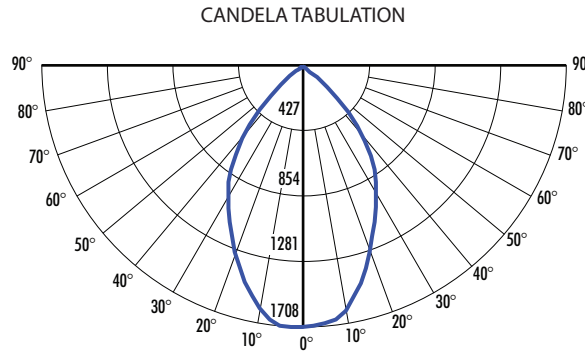
Radio frequency (RF) device for digital control of light fixtures in an Athena control system. Athena wireless processor or Clear Connect gateway-Type X is required to operate wireless node.

- 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

CRTR8LS2029CWUE-D10-TS40_LOW (2000lm, 17W, 4000K)

System Power:	17W	MULTIPLIERS
Test Date:	10/2023	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: 0.81
Lumens Delivered:	1998	CCT
CBCP:	1707	2700K: 1.04
Power Factor:	0.99	3000K: 1.01
		3500K: 1.12
		4000K: 1.00

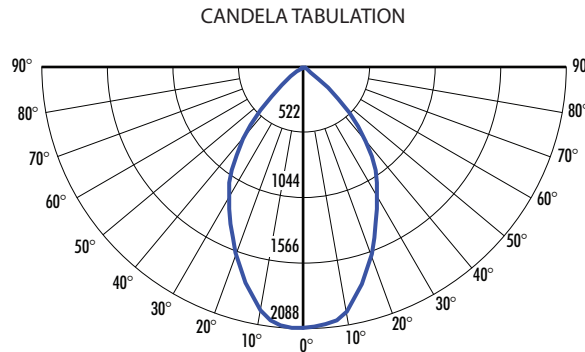


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	10.75'	26.64
10.0'	13.44'	17.05
12.0'	16.13'	11.84
14.0'	18.82'	8.70
16.0'	21.50'	6.66

CRTR8LS2029CWUE-D10-TS40_MID (2400lm, 22W, 4000K)

System Power:	22W	MULTIPLIERS
Test Date:	10/2023	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: 0.81
Lumens Delivered:	2445	CCT
CBCP:	2086	2700K: 1.04
Power Factor:	0.99	3000K: 1.01
		3500K: 1.12
		4000K: 1.00

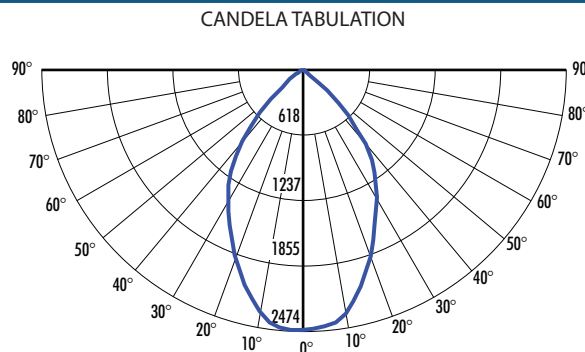


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	10.75'	32.56
10.0'	13.44'	20.84
12.0'	16.13'	14.47
14.0'	18.82'	10.63
16.0'	21.50'	8.14

CRTR8LS2029CWUE-D10-TS40_HIGH (2900lm, 28W, 4000K)

System Power:	28W	MULTIPLIERS
Test Date:	10/2023	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: 0.81
Lumens Delivered:	2897	CCT
CBCP:	2471	2700K: 1.04
Power Factor:	0.99	3000K: 1.01
		3500K: 1.12
		4000K: 1.00



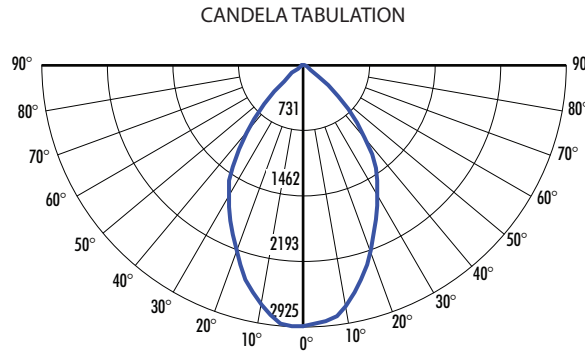
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	10.75'	38.59
10.0'	13.44'	24.70
12.0'	16.13'	17.15
14.0'	18.82'	12.60
16.0'	21.50'	9.65

PHOTOMETRY (Continued)

CRTR8LS3348CWUE-D10-TS40_LOW (3300lm, 31W, 4000K)

System Power:	31W	MULTIPLIERS
Test Date:	10/2023	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: 0.81
Lumens Delivered:	3361	CCT
CBCP:	2922	2700K: 1.04
Power Factor:	0.99	3000K: 1.01
		3500K: 1.12
		4000K: 1.00

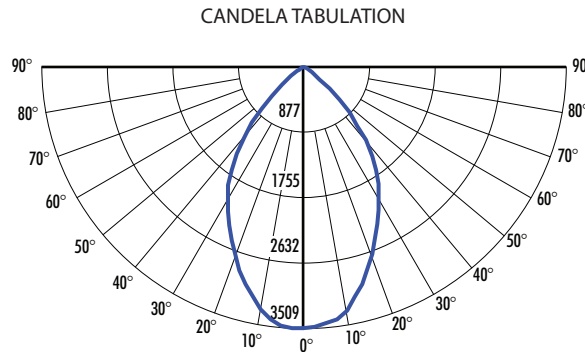


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	10.69'	45.63
10.0'	13.36'	29.20
12.0'	16.04'	20.28
14.0'	18.71'	14.90
16.0'	21.38'	11.41

CRTR8LS3348CWUE-D10-TS40_MID (4100lm, 39W, 4000K)

System Power:	39W	MULTIPLIERS
Test Date:	10/2023	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: 0.81
Lumens Delivered:	4137	CCT
CBCP:	3506	2700K: 1.04
Power Factor:	0.99	3000K: 1.01
		3500K: 1.12
		4000K: 1.00

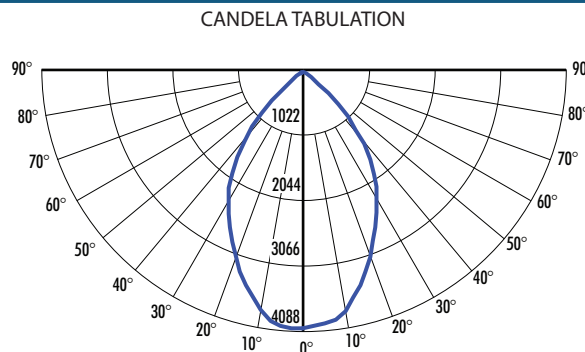


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	10.83'	54.76
10.0'	13.54'	35.04
12.0'	16.25'	24.34
14.0'	18.96'	17.88
16.0'	21.67'	13.69

CRTR8LS3348CWUE-D10-TS40_HIGH (4800lm, 48W, 4000K)

System Power:	48W	MULTIPLIERS
Test Date:	10/2023	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: 0.81
Lumens Delivered:	4818	CCT
CBCP:	4084	2700K: 1.04
Power Factor:	0.99	3000K: 1.01
		3500K: 1.12
		4000K: 1.00



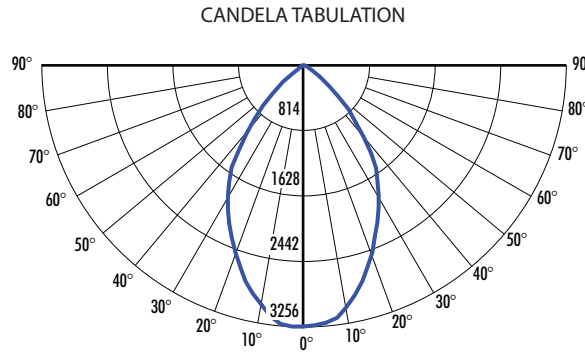
FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	10.83'	63.76
10.0'	13.54'	40.80
12.0'	16.25'	28.34
14.0'	18.96'	20.82
16.0'	21.67'	15.94

PHOTOMETRY (Continued)

CRTR8LS3853CWUE-D10-TS40_LOW (3800lm, 35W, 4000K)

System Power:	35W	MULTIPLIERS
Test Date:	10/2023	Reflector Finish
Beam Angle 50%:	67.7°	CW: 1.00
Field Angle 10%:	102.7°	SS: 0.90
Color Temperature:	3922K	SW: 0.88
CRI:	83.9	WW: 0.81
Lumens Delivered:	3788	CCT
CBCP:	3256	2700K: 1.04
Power Factor:	0.99	3000K: 1.01
		3500K: 1.12
		4000K: 1.00

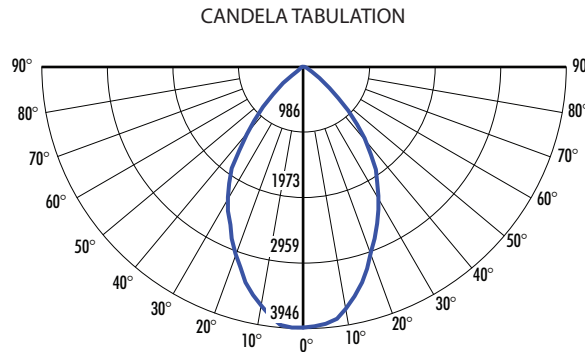


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	10.73'	50.87
10.0'	13.41'	32.56
12.0'	16.10'	22.61
14.0'	18.78'	16.61
16.0'	21.46'	12.72

CRTR8LS3853CWUE-D10-TS40_MID (4600lm, 45W, 4000K)

System Power:	45W	MULTIPLIERS
Test Date:	10/2023	Reflector Finish
Beam Angle 50%:	67.8°	CW: 1.00
Field Angle 10%:	102.6°	SS: 0.90
Color Temperature:	3930K	SW: 0.88
CRI:	83.7	WW: 0.81
Lumens Delivered:	4593	CCT
CBCP:	3946	2700K: 1.04
Power Factor:	0.99	3000K: 1.01
		3500K: 1.12
		4000K: 1.00

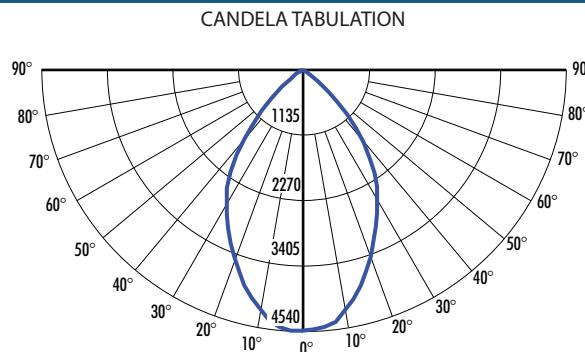


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	10.75'	61.65
10.0'	13.44'	39.45
12.0'	16.13'	27.40
14.0'	18.82'	20.13
16.0'	21.50'	15.41

CRTR8LS3853CWUE-D10-TS40_HIGH (5300lm, 53W, 4000K)

System Power:	53W	MULTIPLIERS
Test Date:	10/2023	Reflector Finish
Beam Angle 50%:	67.9°	CW: 1.00
Field Angle 10%:	102.7°	SS: 0.90
Color Temperature:	3929K	SW: 0.88
CRI:	83.5	WW: 0.81
Lumens Delivered:	5300	CCT
CBCP:	4540	2700K: 1.04
Power Factor:	0.99	3000K: 1.01
		3500K: 1.12
		4000K: 1.00



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
8.0'	10.77'	70.94
10.0'	13.46'	45.40
12.0'	16.16'	31.53
14.0'	18.85'	23.17
16.0'	21.54'	17.74