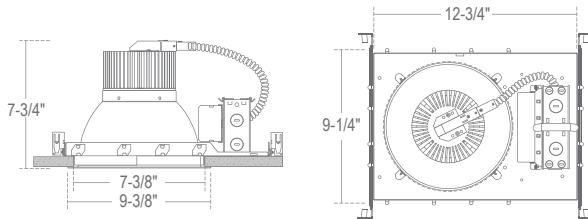


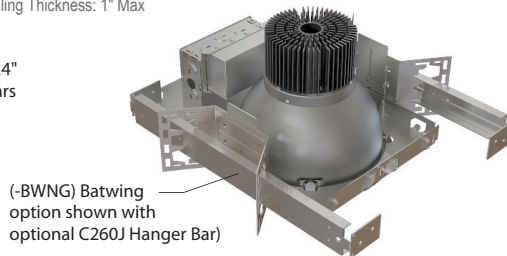
CH8 : 8" C-SERIES

LED DOWNLIGHT NEW CONSTRUCTION 1000LM - 6200LM (9W-55W)

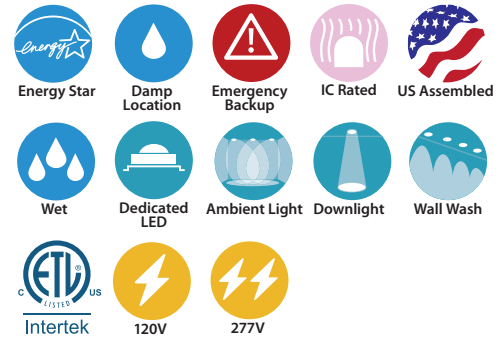


Ceiling Cut-out: 7-15/16"
Ceiling Thickness: 1" Max

Line art shown with 24"
Adjustable Hanger Bars



(-BWNG) Batwing
option shown with
optional C260J Hanger Bar



- Twist and lock reflector for quick access to LED lamp array
- Heavy-duty self-flanged reflector
- Soft even lumen distribution
- No visible screws or hardware

ORDERING : CH810ICAUE-D10-EM-CHP-BWNG/CR8L22SW-EMA-T30

CH8xx

Housing	Insulation Contact	Driver Options	Emergency Options	J-Box	Mounting	Reflector	Reflector Finish	Reflector Options	CCT
Housing ¹			Reflector ¹		Reflector Finish		Reflector Options		CCT
1000lm (9W)	CH808	[Options]	/CR8L22		Satin Haze Reflector/	SW	None	Blank	2700K (84 CRI) -T27⁹
2000lm (17W)	CH810	[Options]	/CR8L22		White Finish		Integral EM	-EMA³	3000K (84 CRI) -T30
2400lm (22W)	CH818	[Options]	/CR8L22		White Reflector/	WW	Switch		3500K (84 CRI) -T35
2900lm (28W)	CH828	[Options]	/CR8L22		White Finish				4000K (84 CRI) -T40
3300lm (32W)	CH829	[Options]	/CR8L36		All Black	BB			5000K (84 CRI) -T50¹⁰
3800lm (35W)	CH838	[Options]	/CR8L36		Clear Specular	CW			
4100lm (39W)	CH839	[Options]	/CR8L36		Reflector/White Finish				
4800lm (48W)	CH848	[Options]	/CR8L36		All Satin Haze	SS			
5300lm (55W)	CH850⁸	[Options]	/CR8L40						
5600lm (45W)	CH855	[Options]	/CR8L53						
6200lm (50W)	CH860	[Options]	/CR8L60						

Options

Insulation Contact	Driver Options ²	Emergency Options	J-Box	Mounting
Non-IC Blank	0-10V Dimming UE-D10	Blank: None Blank	None Blank	24" Adjustable Blank
ICA Rated ICA⁵	UniDim™ 0-10V ELV and Triac Dimming UE-DUN	12W Emergency Backup EM	Junction Box (Chicago Plenum) -CHP	Architectural C-Channel -BWNG⁴
	120V ELV and Triac Dimming -DIN	Remote Locator Emergency System -EMAC⁷		
	Lutron HighLume UE-DHL	GTD Device -GTD		
	Lutron EcoSystem UE-ECO			
	347V -347⁶			
	0-10V Dimming (1%) UE-D10P1			

¹ Housing must match corresponding Reflector in column to right.

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

³ Only available for EM Housings.

⁴ (-BWNG) option does **NOT** include Hanger Bars. Hanger Bars ordered separately.

⁵ (ICA) is only available for CH808, CH810 and CH818.

⁶ (-347) not available for CH808.

⁷ (-EMAC) Check Wiring Diagrams.

⁸ CH850/CR8L40 only available with UE-D10, UE-D10P1 and -347 dimming options.

⁹ (-T27) not available for CH860/CR8L60.

¹⁰ (-T50) not available for CH855/CR8L53 and CH860/CR8L60.

COMPATABILITY

VR800

Round Vandal Resistant Kit for 8"



P-CR872SW

Wall Wash for 8"



SPECIFICATION

Application

Architectural/Commercial-grade recessed lensed LED downlight housing for medium to high ceilings in commercial and architectural spaces.

Mounting

Housing suitable for new construction installations only, supplied with (2) 24" adjustable hanger bars with 90° repositioning ability. Suitable for wood & metal joist support systems, and also drywall & T-bar ceilings. Hanger bars equipped with nail-less install 3/4" serrated barbed studs and captive nails, for faster and easier secure mounting in wood joists. Set-screws lock into position and prevent shifting after installation. Earthquake structural cable compatible for drop panel ceiling or any other mounting that requires direct support from structural ceilings. Optional galvanized aluminum Architectural C-Channel Batwing also available. (C260) & (C260J) hanger bars are **NOT included** with (-BWNG) option, and must be ordered separately.

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.

(UE-D10) 0-10V dimming 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 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.

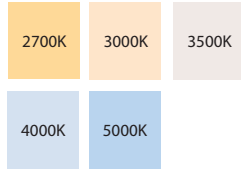
(UE-ECO) Works with Lutron EcoSystem digital controls. Precision microprocessor control and integral thermal management deliver energy savings and extended product life.

(-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/Airtight (ICA) option is 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 for both Non-IC and IC rated housings 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. Optional reflector (-EMA) features integral EM switch for 12W emergency backup (UE-D10-EM).

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, 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 to install or remove covers for easy access and ground wire. (-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 to UL1598 and UL8750. Suitable for dry, damp and wet 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.

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.

Energy Star Qualified Items

/CR8L54SW-T30

/CR8L54SW-T35

/CR8L54SW-T40

Emergency Options

Emergency LED Battery Back-up available, remotely mounted adjacent to housing by installer. When AC power fails, in the event of a power failure, the device immediately switches to the emergency mode, and operates the existing fixture for 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).

SPECIFICATION (Continued)

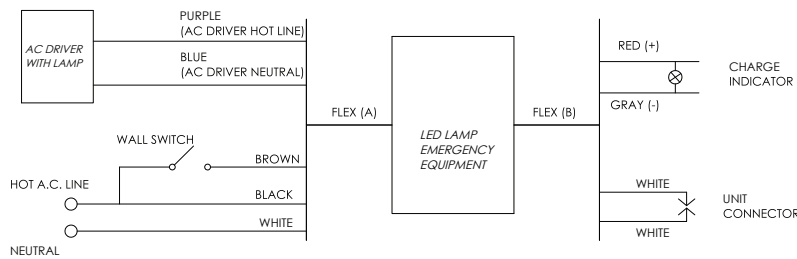
Remote Emergency Back Up (-EMAC)

For installation away from the surface of the building in remote hidden location.

- Hidden Emergency Equipment
- Must be installed in Dry Locations

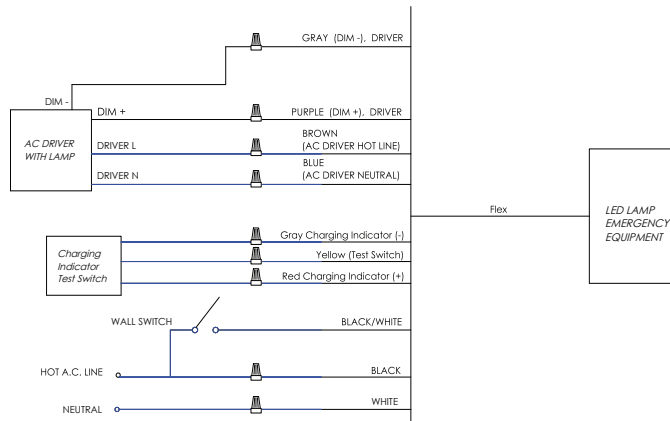
Not rated for outdoor mounting. Damp location rated.

<25W LOAD



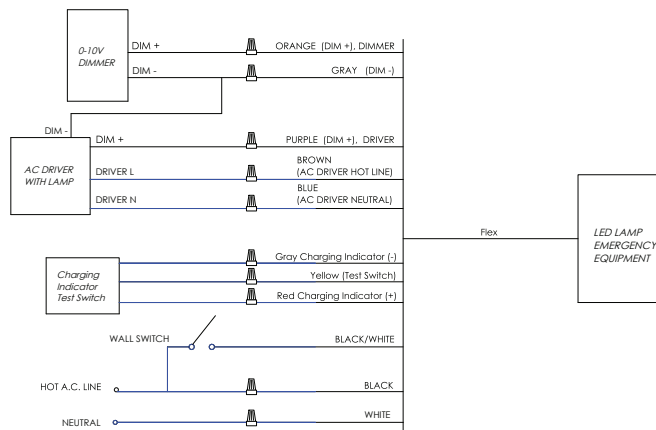
Input Voltage:	120-277VAC/60Hz
Output Voltage:	170VDC (120VAC Equivalent)
Wattage:	25W
Switching Time:	<1s
Charging Time:	24h
Operating Time:	90 minutes
Minimum Temperature:	0°C
Maximum Temperature:	50°C
Maximum Lumens:	2200lm

<40W LOAD



Input Voltage:	120-277VAC/60Hz
Output Voltage:	170VDC (120VAC Equivalent)
Wattage:	40W
Switching Time:	<1s
Charging Time:	24h
Operating Time:	90 minutes
Minimum Temperature:	0°C
Maximum Temperature:	50°C
Maximum Lumens:	3500lm

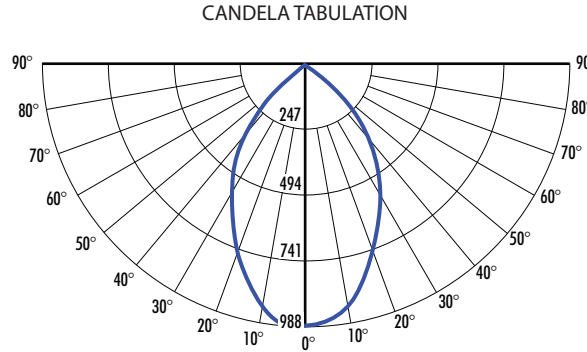
>40W LOAD



PHOTOMETRY

CH808UE-D10_CR8L22CW-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

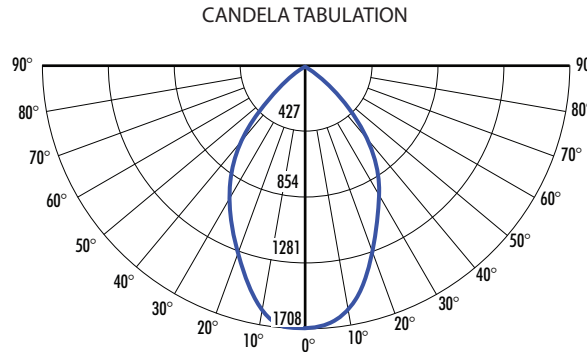


FOOTCANDLE DISTRIBUTION

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

CH810UE-D10_CR8L22CW-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

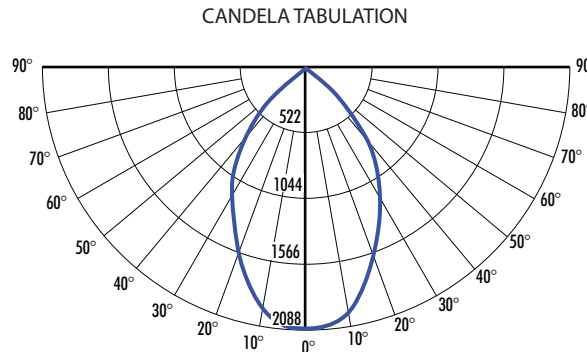


FOOTCANDLE DISTRIBUTION

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

CH818UE-D10_CR8L22CW-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

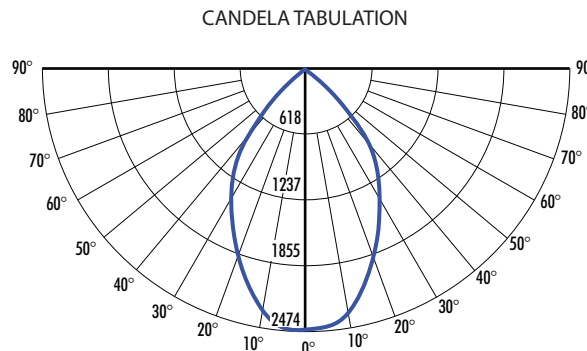


FOOTCANDLE DISTRIBUTION

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

CH828UE-D10_CR8L22CW-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



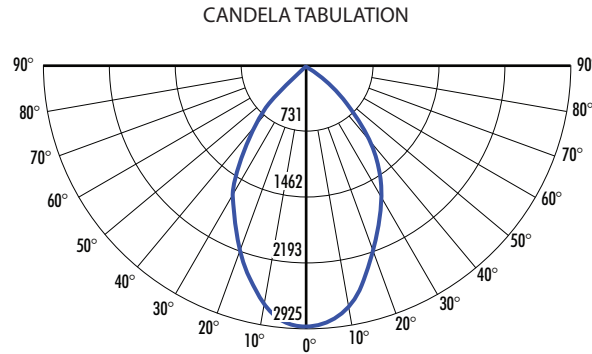
FOOTCANDLE DISTRIBUTION

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)

CH829UE-D10_CR8L36CW-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

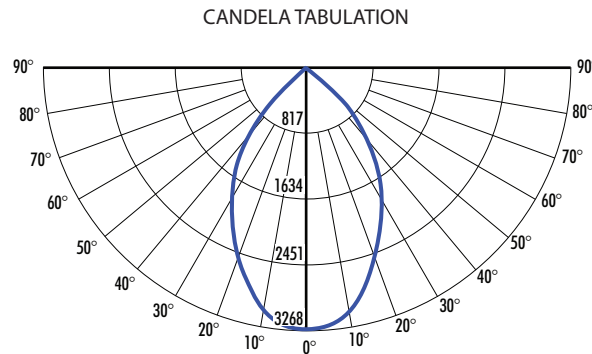


FOOTCANDLE DISTRIBUTION

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

CH838UE-D10_CR8L36CW-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

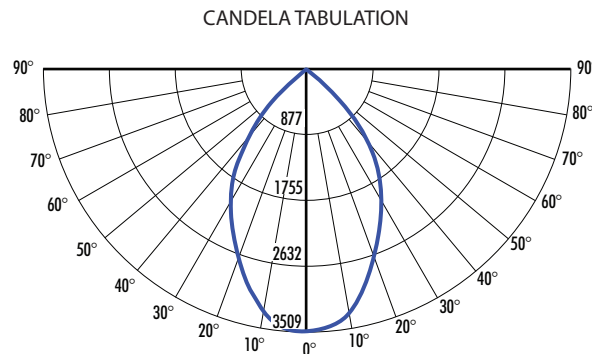


FOOTCANDLE DISTRIBUTION

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

CH839UE-D10_CR8L36CW-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

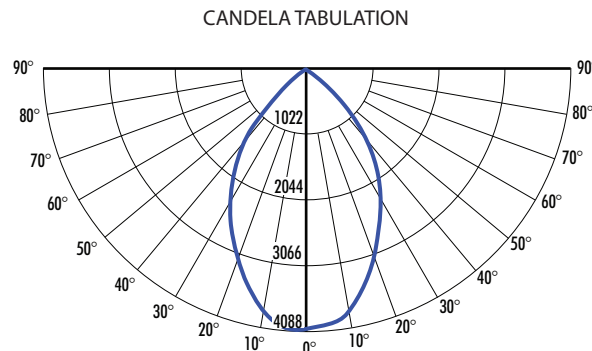


FOOTCANDLE DISTRIBUTION

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

CH848UE-D10_CR8L36CW-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



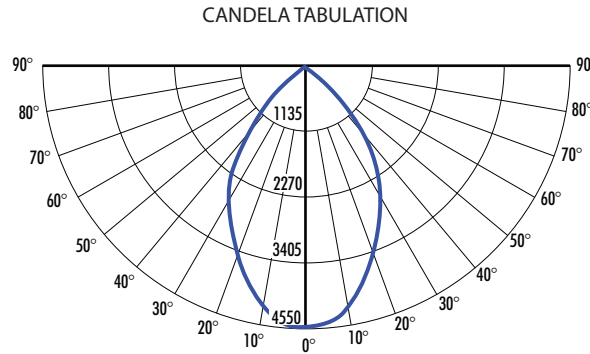
FOOTCANDLE DISTRIBUTION

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)

CH850UE-D10_CR8L40CW-T40 (5300lm, 55W, 4000K)

System Power:	53W	MULTIPLIERS
Test Date:	09/2023	REFLECTOR FINISH
Beam Angle 50%:	67.9°	CW : 1.00
Field Angle 10%:	102.6°	SS : 0.90
Color Temperature:	3929K	SW : 0.88
CRI:	83.5	WW : 0.66
Lumens Delivered:	5300	CCT
CBCP:	4540.4	2700K : 1.04
Power Factor:	0.99	3000K : 1.01
		3500K : 1.12
		4000K : 1.00

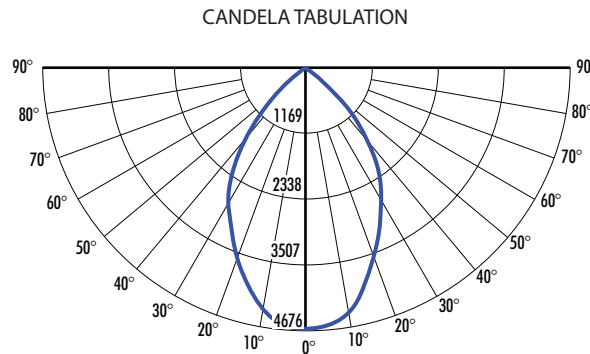


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
12.0'	16.16'	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

CH855UE-D10_CR8L53CW-T40 (5600lm, 45W, 4000K)

System Power:	42W	MULTIPLIERS
Test Date:	09/2023	REFLECTOR FINISH
Beam Angle 50%:	68.9°	CW : 1.00
Field Angle 10%:	103.6°	SS : 0.90
Color Temperature:	3939K	SW : 0.88
CRI:	83.4	WW : 0.66
Lumens Delivered:	5610	CCT
CBCP:	4672.3	2700K : 1.04
Power Factor:	0.99	3000K : 1.01
		3500K : 1.12
		4000K : 1.00

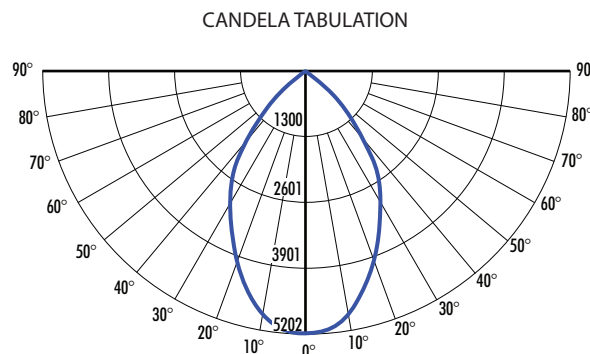


FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
12.0'	16.46'	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

CH860UE-D10_CR8L60CW-T40 (6200lm, 50W, 4000K)

System Power:	49W	MULTIPLIERS
Test Date:	09/2023	REFLECTOR FINISH
Beam Angle 50%:	68.3°	CW : 1.00
Field Angle 10%:	103.3°	SS : 0.90
Color Temperature:	4111K	SW : 0.88
CRI:	84.1	WW : 0.66
Lumens Delivered:	6159	CCT
CBCP:	5201.4	2700K : 1.04
Power Factor:	0.99	3000K : 1.01
		3500K : 1.12
		4000K : 1.00



FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
12.0'	16.28'	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