

TYPE

CATALOG#

PROJECT

CH6:6"C·SERIES LED DOWNLIGHT NEW CONSTRUCTION 1000LM - 6000LM (8W-55W) 12-1/4"-7-1/4" 7-3/4" 6-00 7-7/8" Ceiling Cut-out: 6-3/8" Ceiling Thickness: 1" Max (-BWNG) Batwing option shown with



- 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 : CH610ICAUE-D10-EM/CR6L17SW-EMA-T30

optional C260J Hanger Bar)

Housing	Insula Con		Driver Options	Emergency Options	J-Box	Mounting	g ' Refl	lector	Reflector Finish	Reflect Optior		CT			
	Ho	ousing ¹		Reflector	1	Reflecto	or Finish	1	Refle	ctor Opt	ions	CC	т		
1000lm (8 1900lm (1 2300lm (2 2800lm (2 3100lm (2 3800lm (2 4300lm (4 4600lm (4 5400lm (2 5400lm (5	8W) 17W) 22W) 28W) 30W) 38W) 45W) 45W) 55W)	CH608 CH610 CH618 CH628 CH639 CH639 CH648 CH649 CH650 CH655	 [Options] 	/CR6L22 /CR6L22 /CR6L22 /CR6L22 /CR6L22 /CR6L36 /CR6L36	Sati Whi Whi All E Clea Refl	n Haze Re ite Finish ite Reflect ite Finish Black ar Speculai ector/Whi Gatin Haze	rflector/	SW WW BB CW	None		lank	2700K (84 C 3000K (84 C 3500K (84 C 4000K (84 C 5000K (84 C	RI) -T27 ° RI) -T30 RI) -T35 RI) -T40		
Insulatio Non-IC C Rated/ Nirtight	Blan	k	Options 0-10V Dimn UniDim™ 0- and Triac Di	Driver Optior ning UI 10V ELV UI	15 ² E-D10 E-DUN		None	nerg, B	ack-Up -E	ank		J-Box ne nction Box icago Plenum)	Blank -CHP	Mount 24" Adjustable Architectural C-Channel	5
		-	120V ELV ar Triac Dimmi Lutron High Lutron EcoS 347V 0-10V Dimm	ing iLume UI iystem UI - 3	DIN E-DHL E-ECO 47 ⁶ E-D10P		Emerge GTD De	ncy Sy	stem -E	MAC ⁷ TD					
in colum ² All driver ³ Only avai	n to rig s are 12 ilable fo option	ht. 20V/277 or EM Ho does NG)T include Ha	rwise noted.		and 6 (-34 7 (-EM 8 CH6	CH618. 7) not ava IAC) Chec 50/CR6L4	ailable f ck Wirin 40 only	e for CH608 for CH608. Ig Diagram available v dimming o	s. rith UE-D	10,		¹⁰ (-T50) r	ot available for CH not available for C //CR6L60.	
COMP vr800		BILIT I Resist			-	CR672SW all Wash fo	-				CR6-GS	SKT mercial			





SPECIFICATION

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. Setscrews 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 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	
2700K 3000K 3500K 4000K 5000K	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. 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, installation exceeding this temperature will result in reduced LED lamp life and a voided warranty.
Energy Star Qualified Items	
	/CR6L22T30 /CR6L22T35 /CR6L22T40
	/CR6L36T30 /CR6L36T35 /CR6L36T40
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).



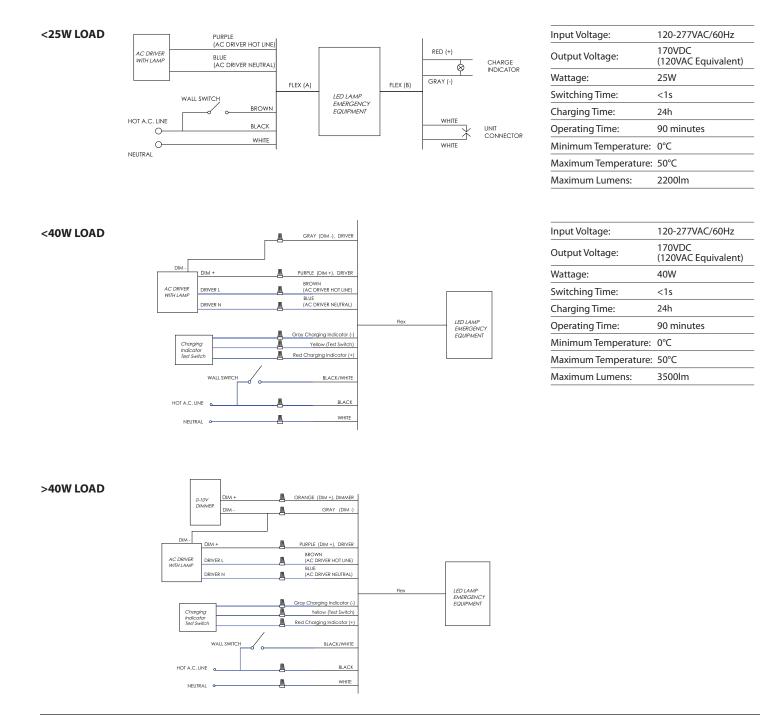


SPECIFICATION (Continued)

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.







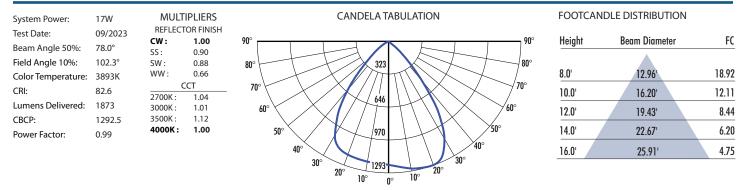
CH6:6"C·SERIES LED DOWNLIGHT NEW CONSTRUCTION 1000LM - 6000LM (8W-55W)

PHOTOMETRY

CH608UE-D10_CR6L22CW-T40 (1000lm, 8W, 4000K)

System Power:	11W	MULTIPLIERS	CANDELA TABULATION	FOOTCAN	IDLE DISTRIBUTION	
Test Date: Beam Angle 50%:	09/2023 79.6°	REFLECTOR FINISH CW: 1.00 SS: 0.90	90°	Height	Beam Diameter	FC
Field Angle 10%: Color Temperature:	104.2° 3787K	SW : 0.88 WW : 0.66	80° 190 80°	8.0'	13.33'	11.58
CRI:	83	CCT 2700K: 1.04	70° //10°	10.0'	16.66'	7.41
Lumens Delivered: CBCP:	1168 761.2	3000K: 1.01 3500K: 1.12	60°	12.0'	20.00'	5.15
Power Factor:	0.99	4000K: 1.00	50° 571 50°	14.0'	23.33'	3.78
			40° 30° 20° 10° 10° 20° 30° 40°	16.0'	26.66'	2.89

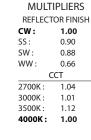
CH610UE-D10_CR6L22CW-T40 (1900lm, 17W, 4000K)

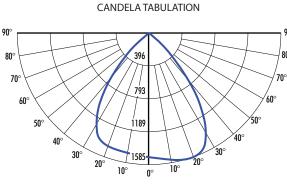


CH618UE-D10_CR6L22CW-T40 (2300lm, 22W, 4000K)

System Power:	22W	Ν
Test Date:	09/2023	RE
Beam Angle 50%:	78.1°	CW SS:
Field Angle 10%:	102.8°	SW
Color Temperature:	3899K	WW
CRI:	82.4	270
Lumens Delivered:	2313	300
CBCP:	1584.7	350
Power Factor:	0.99	400

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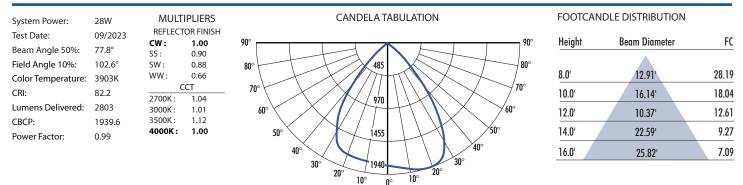
FOOTCANDLE DISTRIBUTION

90°

80°

Height	Beam Diameter	FC
8.0'	12.97'	20.29
10.0'	16.22'	14.90
12.0'	19.47'	10.38
14.0'	22.71'	7.63
16.0'	25.96'	5.84

CH628UE-D10_CR6L22CW-T40 (2800lm, 28W, 4000K)





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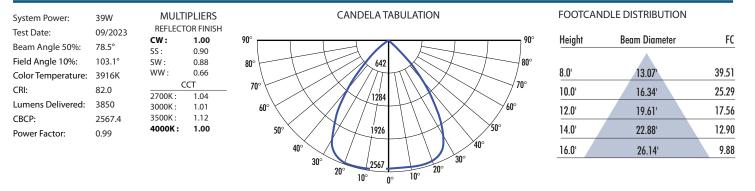
CH6: 6"C·SERIES LED DOWNLIGHT NEW CONSTRUCTION 1000LM - 6000LM (8W-55W)

PHOTOMETRY (Continued)

CH630UE-D10_CR6L36CW-T40 (3100lm, 30W, 4000K)

System Power:	30W	MULTIPLIERS	CANDELA TABULATION	FOOTCAN	IDLE DISTRIBUTION	
Test Date: Beam Angle 50%:	09/2023 78.5°	REFLECTOR FINISH CW: 1.00 SS: 0.90	90°	Height	Beam Diameter	FC
Field Angle 10%: Color Temperature:	103.0° 3902K	SW : 0.88 WW : 0.66	80°	8.0'	13.07'	32.63
CRI:	82.1	CCT 2700K: 1.04	70°	10.0'	16.34'	20.88
Lumens Delivered: CBCP:	3182 2121.3	3000K: 1.01 3500K: 1.12	60°	12.0'	19.61'	14.50
Power Factor:	0.99	4000K: 1.00	50°	14.0'	22.88'	10.66
			40° 30° / 2121 / 30°	16.0'	26.14'	8.16
			20° 10° 0° 10° 20°			

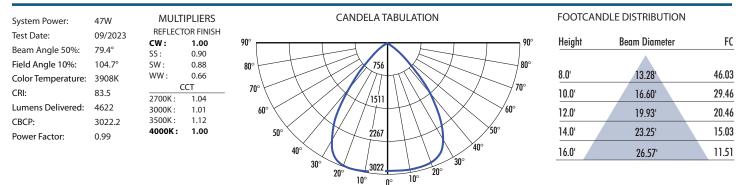
CH639UE-D10_CR6L36CW-T40 (3800lm, 38W, 4000K)



CH648UE-D10_CR6L36CW-T40 (4300lm, 45W, 4000K)

System Power:	45W	MULTIPLIERS	CANDELA TABULATION	FOOTCAN	DLE DISTRIBUTION	
Test Date: Beam Angle 50%:	09/2023 78.5°	REFLECTOR FINISH CW: 1.00 SS: 0.90	90°	Height	Beam Diameter	FC
Field Angle 10%: Color Temperature: CRI:	103.2° 3976K 83.5	SW : 0.88 WW : 0.66 CCT	80° 70° 70°	8.0' 10.0'	13.07' 16.34'	42.78
Lumens Delivered: CBCP:	4181 2800.2	2700K: 1.04 3000K: 1.01 3500K: 1.12	60° (1400) (60°	12.0'	19.61'	19.01
Power Factor:	0.99	4000K: 1.00	50° 2100 50° 40° 20° 30°	14.0' 16.0'	22.88' 26.14'	13.97 10.70
			30° 20° 2800 30° 30° 20° 10° 0° 10° 20° 30°			

CH649UE-D10_CR6L40CW-T40 (4600lm, 45W, 4000K)





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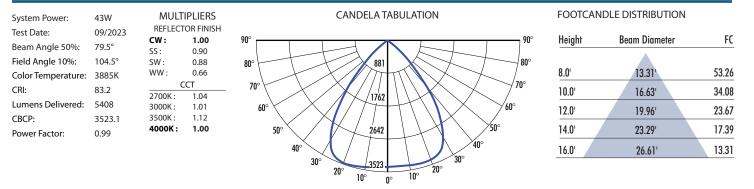
CH6: 6"C·SERIES LED DOWNLIGHT NEW CONSTRUCTION 1000LM - 6000LM (8W-55W)

PHOTOMETRY (Continued)

CH650UE-D10_CR6L40CW-T40 (4900lm, 55W, 4000K)

System Power:	53W	MULTIPLIERS	CANDELA TABULATION	FOOTCAN	IDLE DISTRIBUTION	
Test Date: Beam Angle 50%:	09/2023 78.6°	REFLECTOR FINISH CW: 1.00 SS: 0.90	90°	Height	Beam Diameter	FC
Field Angle 10%: Color Temperature:	103.4° 3929K	SW : 0.88 WW : 0.66	80°	8.0'	13.10'	50.57
CRI:	82.2	CCT 2700K: 1.04	70° ////	10.0'	16.37'	32.36
Lumens Delivered: CBCP:	4918 3286.5	3000K: 1.01 3500K: 1.12	60°	12.0'	19.64'	22.47
Power Factor:	0.99	4000K: 1.00	50° 2465 50°	14.0'	22.92'	16.51
			40° 30° 3287 30°	16.0'	26.19'	12.64
			20° 10° 0° 10° 20°			

CH655UE-D10_CR6L53CW-T40 (5400lm, 45W, 4000K)



CH660UE-D10_CR6L60CW-T40 (6000lm, 50W, 4000K)

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System Power:	48W	MULTIPLIERS	CANDELA TABULATION	FOOTCAN	IDLE DISTRIBUTION	
Test Date: Beam Angle 50%:	09/2023 79.4°	REFLECTOR FINISH CW: 1.00 SS: 0.90	90°	Height	Beam Diameter	FC
Field Angle 10%: Color Temperature:	104.5° 4041K	SW : 0.88 WW : 0.66 CCT	80° 70° 70°	8.0'	13.28'	59.65
CRI: Lumens Delivered:	83.7 5896	2700K: 1.04 3000K: 1.01	1923 /0 /0	10.0' 12.0'	16.60' 19.93'	38.18 26.51
CBCP: Power Factor:	3846.3 0.99	3500K: 1.12 4000K: 1.00	50° 2885 50°	14.0'	23.25'	19.48
			40° 30° 30° 30°	16.0'	26.57'	14.91
			20° 3847 20° 20° 10° 0° 10° 20°			