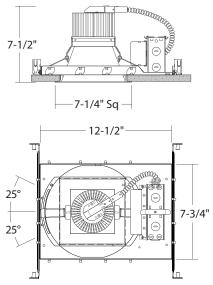
CATALOG#

TYPE

CH6QLS: 6" C·SERIES

SQUARE LUMEN/COLORSELECT NEW CONSTRUCTION 1300LM - 3700LM (17W-55W)





Reflector

Ceiling Cut-Out: 6-3/8" Sq. Ceiling Thickness: 2-3/8" Max.



















- Three LumenSelect options up to 2000lm, 3300lm, or 3700lm
- · ColorSelect 3000K, 3500K, 4000K (84CRI) switch
- · Twist and lock reflector for quick access to LED lamp array
- · Heavy-duty seamless die-cast reflector
- · Soft even lumen distribution
- · No visible screws or hardware

ORDERING: CH6QLS1320UE-D10-EM/CR6QL22SW-EMA-TS30

Emergency Options

Driver

Options

CH6QLSxxxx LumenSelect

Housing LumenSelect Housing1 Reflector1 1300lm (17W) CH6QLS1320 [Options] /CR6QL22 1700lm (22W) 2000lm (28W) 2300lm (30W) CH6QLS2333 [Options] /CR6QL36 2800lm (39W) 3300lm (48W) 2700lm (35W) CH6QLS2737 [Options] /CR6QL40 3200lm (45W) 3700lm (55W)

Insulation Contact

> Reflector Finish Satin Haze Reflector/ SW White Finish White Reflector/ ww White Finish All Black BB All Satin Haze SS

Reflector Options None **Blank** Integral EM -EMA²

Reflector

Options

Reflector

Switch

ColorSelect ColorSelect

ColorSelect

-TS354 3000K, 3500K, 4000K (84CRI)

C Blank	0-10V Dimming	UE-D10
tion Contact	Driver Options	

Non-IC IC Rated/ ICA3 Airtight

Insula

(120V/277V) Athena Wireless Node -AWN

Options

Athena Wireless Node -AWN-OCC Occupancy Sensor

Emergency Options

Blank Remote Location **Emergency Battery** -EMAC

Remote Location **Emergency Inverter** GTD Device

J-Box

None **Blank** Junction Box -CHP (Chicago Plenum)

-GTD

CH6QLS1320	DRIVER SET LOW	DRIVER SET MID	DRIVER SET HIGH
LUMENS (delivered)	1300	1700	2000
CH6QLS2333	DRIVER SET LOW	DRIVER SET MID	DRIVER SET HIGH
LUMENS (delivered)	2300	2800	3300
CH6QLS2737	DRIVER SET LOW	DRIVER SET MID	DRIVER SET HIGH
LUMENS (delivered)	2700	3200	3700

² Only available for EM Housings.

¹ Housing must match corresponding Reflector in column to right.

³ ICA is only available on 1300lm (17W) and 1700lm (22W).



SQUARE LUMEN/COLORSELECT NEW CONSTRUCTION 1300LM - 3700LM (17W-55W)

below 35°C to achieve a minimum L70 life of 50,000 hours according to the LM80 standard.

SPECIFICATION

Application	
	Architectural/Commercial-grade recessed lensed Surface-Mounted Device (SMD) LED downlight housing for new construction with Lumen/ColorSelect switches offer added flexibility for optimal light output and ambience in commercial and architectural spaces with medium to high ceilings.
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.
Color Temperature (CCT)	
3000K 3500K 4000K	Available in 3000K, 3500K and 4000K in 84 CRI.
Insulation Contact	
	CRTR6QLS1320 set to 17W (1300lm) or 22W (1700lm) 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 a controlled to the contr



SQUARE LUMEN/COLORSELECT NEW CONSTRUCTION 1300LM - 3700LM (17W-55W)

SPECIFICATION (Continued)

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 Remote Location Emergency Battery (-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, 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.

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.



SQUARE LUMEN/COLORSELECT NEW CONSTRUCTION 1300LM - 3700LM (17W-55W)

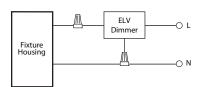
SPECIFICATION (Continued)

Dimming Options

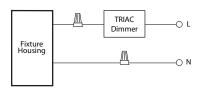
ELV and TRIAC Driver 120V (-DIN):

Compatible with electronic low voltage, and 2-Wire incandescent dimmers. Also known as leading edge, Reverse Phase, Forward Phase dimming. Allows smooth dimming down to 5% depending upon the dimmer's limitations.

Incandescent/Phase Wiring ELV



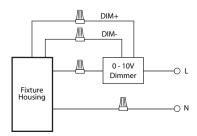
TRIAC



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.

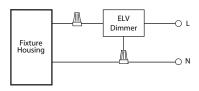
0 - 10V Wiring



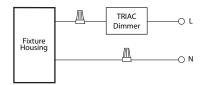
UniDim™ Driver 120V/277V (UE-DUN):

All in one ELV and TRIAC phase dimming (120V only), and 0-10V dimming (120V/277V). Works with most 3-Wire ELV, 2-Wire incandescent and 120V/277V 5-Wire 0-10V fluorescent dimmers.

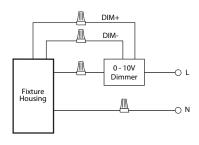
Incandescent/Phase Wiring ELV



TRIAC



0 - 10V Wiring



ATHENA WIRELESS NODE (-AWN, -AWN-OCC)

\$LUTRON

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 wirless 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 lmits for a Class B digital device
- ANSI C1371.1 0-10V Electronic Off
- · D4i certified
- IC (Industry Canda)
- Supports DALI-2 Type 8 tuneable-white color temperature Tc applications IEC62386-209 ed.1



SQUARE LUMEN/COLORSELECT NEW CONSTRUCTION 1300LM - 3700LM (17W-55W)

SPECIFICATION (Continued)

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

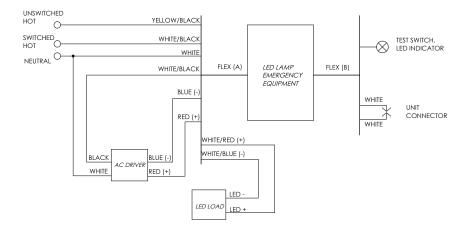
Emergency LED Battery Back-up available, remotely mounted adjacently by the installer. When AC power fails, the device immediately switches to the emergency mode, operating the LEDs for a minimum of 90 minutes. Remote test switch and plate cover included. Optional Generator Transfer Device switches the driver to auxiliary generator power during the loss of normal AC power, (recommended for applications requiring individual circuit switching).

REMOTE EMERGENCY BATTERY (-EM): 10W

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

- · Hidden Emergency Equipment
- Must be installed in Dry Locations
- 10W constant output to LED lamp

Not rated for outdoor mounting. Damp location rated.



Input Voltage:	120-277VAC/60Hz
Output Voltage:	10W
Wattage:	10W
Switching Time:	<1s
Charging Time:	24h
Operating Time:	90 minutes
Minimum Temperature:	0°C
Maximum Temperature:	50°C
Maximum Lumens:	800lm
Self-Diagnostic:	No



SQUARE LUMEN/COLORSELECT NEW CONSTRUCTION 1300LM - 3700LM (17W-55W)

SPECIFICATION (Continued)

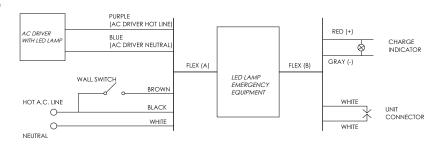
REMOTE LOCATION EMERGENCY INVERTER (-EMAC): 25W and 40W

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

- · Hidden Emergency Equipment
- Must be installed in Dry Locations
- Wattage package will determine if 25W or 40W battery gets sent; corresponding wiring diagrams below
- 170 VDC output to AC DRIVER during EM mode

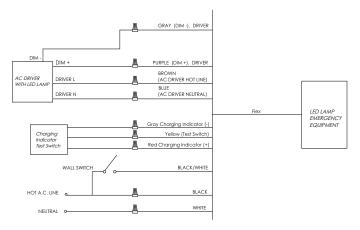
Not rated for outdoor mounting. Damp location rated.

<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
Self-Diagnostic:	No

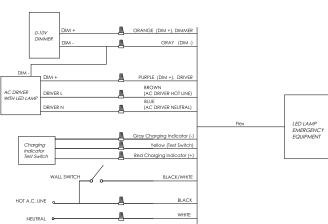
<40W LOAD



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
Self-Diagnostic:	Yes

>40W LOAD

• 0-10V dimmable driver required



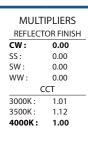


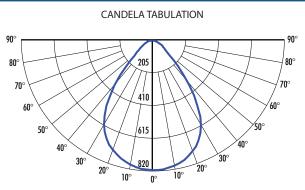
SQUARE LUMEN/COLORSELECT NEW CONSTRUCTION 1300LM - 3700LM (17W-55W)

PHOTOMETRY

CH6QLS1320UE-D10/CR6QL22WW-TS40_LOW (1300lm, 17W, 4000K)

System Power:	16W
Test Date:	02/2024
Beam Angle 50%:	76.9°
Field Angle 10%:	120.2°
${\bf ColorTemperature:}$	3812K
CRI:	82.0
Lumens Delivered:	1321
CBCP:	820.39
Power Factor:	0.99



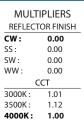


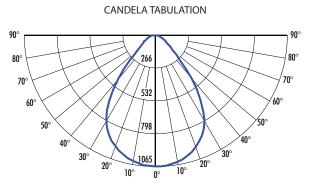
Height	Beam Diameter	FC
8.0'	12.70'	12.82
10.0'	15.88'	8.20
12.0'	19.06'	5.70
14.0'	22.23'	4.19
16.0'	25.41'	3.20

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CH6QLS1320UE-D10/CR6QL22WW-TS40 MID (1700lm, 22W, 4000K)

System Power:	22W
Test Date:	02/2024
Beam Angle 50%:	76.4°
Field Angle 10%:	119.3°
Color Temperature:	3810K
CRI:	81.6
Lumens Delivered:	1687
CBCP:	1064.64
Power Factor:	0.99



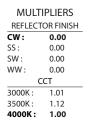


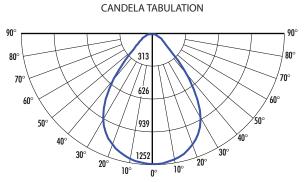
Beam Diameter	FC
12.59'	16.64
15.74'	10.65
18.89'	7.39
22.03'	5.43
25.18'	4.16
	12.59\ 15.74\ 18.89\ 22.03\

FOOTCANDLE DISTRIBUTION

CH6QLS1320UE-D10/CR6QL22WW-TS40_HIGH (2000lm, 28W, 4000K)

System Power:	27W
Test Date:	02/2024
Beam Angle 50%:	77.0°
Field Angle 10%:	120.5°
Color Temperature:	3821K
CRI:	81.5
Lumens Delivered:	2019
CBCP:	1251.08
Power Factor:	0.99





FOOTC	ANDLE DISTRIBUTION	
Height	Beam Diameter	FC
8.0'	12.73	19.54
10.0'	15.91'	12.51
12.0'	19.09'	8.69
14.0'	22.27'	6.38
16.0'	25.45'	4.89

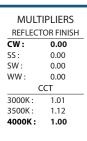


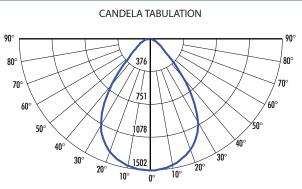
SQUARE LUMEN/COLORSELECT NEW CONSTRUCTION 1300LM - 3700LM (17W-55W)

PHOTOMETRY (Continued)

CH6QLS2333UE-D10/CR6QL36WW-TS40_LOW (2300lm, 30W, 4000K)

System Power:	32W
Test Date:	02/2024
Beam Angle 50%:	76.1°
Field Angle 10%:	119.0°
${\bf ColorTemperature:}$	3854K
CRI:	83.4
Lumens Delivered:	2365
CBCP:	1502
Power Factor:	0.99



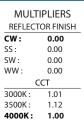


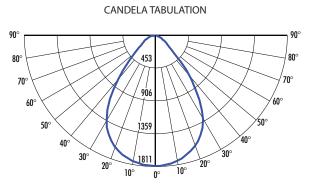
Height	Beam Diameter	FC
8.0'	12.52'	22.45
10.0'		14.37
	15.65'	
12.0'	18.78'	9.98
14.0'	21.92'	7.33
16.0'	25.05'	5.61

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CH6QLS2333UE-D10/CR6QL36WW-TS40_MID (2800lm, 39W, 4000K)

System Power:	40W
Test Date:	02/202
Beam Angle 50%:	76.2°
Field Angle 10%:	119.1°
Color Temperature:	3859K
CRI:	83.2
Lumens Delivered:	2853
CBCP:	1811
Power Factor:	0.99





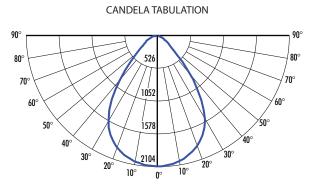
Height	Beam Diameter	FC
8.0'	12.55	26.06
10.0'	15.68'	16.68
12.0'	18.82'	11.58
14.0'	21.95'	8.51
16.0'	25.09'	6.51

FOOTCANDLE DISTRIBUTION

CH6QLS2333UE-D10/CR6QL36WW-TS40_HIGH (3300lm, 48W, 4000K)

System Power:	49W
Test Date:	02/2024
Beam Angle 50%:	76.2°
Field Angle 10%:	119.1°
Color Temperature:	3870K
CRI:	83.0
Lumens Delivered:	3317
CBCP:	2104
Power Factor:	0.99

MULTIPLIERS			
REFLECTO	OR FINISH		
CW:	0.00		
SS:	0.00		
SW:	0.00		
WW:	0.00		
CCT			
3000K:	1.01		
3500K:	1.12		
4000K:	1.00		



FOOTC	ANDLE DISTRIBUTION	
Height	Beam Diameter	FC
8.0'	12.55'	28.73
10.0'	15.68'	18.39
12.0'	18.82'	12.77
14.0'	21.95'	9.38
16.0'	25.09'	7.18

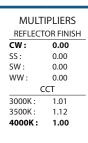


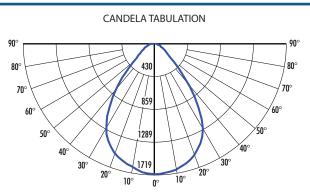
SQUARE LUMEN/COLORSELECT NEW CONSTRUCTION 1300LM - 3700LM (17W-55W)

PHOTOMETRY (Continued)

CH6QLS2737UE-D10/CR6QL40WW-TS40_LOW (2700lm, 35W, 4000K)

System Power:	35W
Test Date:	02/2024
Beam Angle 50%:	75.9°
Field Angle 10%:	119.1°
${\bf ColorTemperature:}$	3798K
CRI:	83.1
Lumens Delivered:	2704
CBCP:	1718.7
Power Factor:	0.99

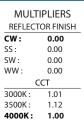


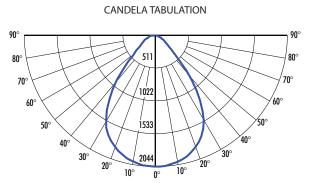


FOOTCAN	DLE DISTRIBUTION	
Height	Beam Diameter	FC
8.0'	12.48	26.85
10.0'	15.60'	17.19
12.0'	18.72'	11.94
14.0'	21.84'	8.77
16.0'	24.96'	6.71

CH6QLS2737UE-D10/CR6QL40WW-TS40 MID (3200lm, 45W, 4000K)

System Power:	45W
Test Date:	02/2024
Beam Angle 50%:	76.3°
Field Angle 10%:	119.7°
Color Temperature:	3815K
CRI:	82.9
Lumens Delivered:	3255
CBCP:	2043.57
Power Factor:	0.99



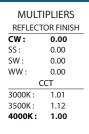


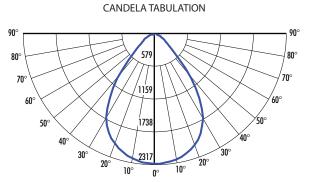
Height	Beam Diameter	FC
8.0'	12.57'	31.93
10.0'	15.71'	20.44
12.0'	18.85'	14.19
14.0'	21.99'	10.43
16.0'	25.14'	7.98

FOOTCANDLE DISTRIBUTION

CH6QLS2737UE-D10/CR6QL40WW-TS40_HIGH (3700lm, 53W, 4000K)

54W
02/2024
76.3°
119.6°
3830K
82.7
3690
2317.26
0.99





FOOT	CANDLE DISTRIBUTION	
Height	Beam Diameter	FC
8.0'	12.57 ¹	36.21
10.0'	15.71'	23.17
12.0'	18.85'	16.09
14.0'	21.99'	11.82
16.0'	25.14'	9.05