



Downlighting

Calculite LED gen 3 6" round wall wash

1000-6000lm

Calculite LED 6" generation 3 features industry leading visual comfort, excellent uniform illumination over time, and patented installation flexibility.

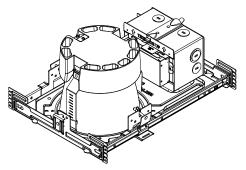
Complete product = Frame + Engine + Trim

Project:
Location:
Cat.No:
Type:
Lamps: Qty:
Notes:

Frame

example: C6RN

Series		Aperture	Installation	Voltage/Options		
C	i	R				
C6	Calculite LED 6" aperture	R Round	N New construction R Remodeler	 Universal (120/277V) 3 347V¹ EM Emergency^{2,3} LC Chicago Plenum² 		



Engine

example: C6L15835NZ10U

Series	Lumens	CRI	сст	Beam	Dimming	Voltage
C6L				w		
C6L Calculite LED 6" aperture	10 1000lm 15 1500lm 20 2000lm 25 2500lm 35 3500lm	8 80 CRI 9 90 CRI ⁵	27 2700 K ⁵ 30 3000 K ⁵ 35 3500 K 40 4000 K	W Wide	Z10 0-10 V 1% SOL EldoLED Solo 0.1% D Dali L Lutron LDE1 EcoSystem fade-to-black	U Universal (120/277/347V)
	48 4800 lm ⁴ 60 6000 lm ⁴				E ELV ⁶ (120V dimming only)	1 Universal (120/277/347V)

Trim example: C6RWWCCP

Series C6	Aperture R	Style	Finish	Flange
C6 Calculite LED 6" aperture	R Round	WW Open Wall Wash LW Lensed Wall Wash ¹ CW Corner Wall Wash ⁷ DW Double Wall Wash ⁷	CL Specular clear CC Comfort clear CD Comfort clear diffuse CZ Champagne bronze BK Black (matte)	 White (matte) P Polished F Flangeless⁷
			WH White (matte)	 White (matte) F Flangeless⁷

Accessories (ordered with a flangeless trim)

CA6RFT Mud-in ring for use with flangeless installations.

CAEM Field installable EM pack.

CGRVPWH IP65 rated vandal proof matte white accessory that mounts onto a flangeless trim (not available for use with Lensed Wall Wash).

- 1. The 347V is not compatible with lumen packages over 2000lm for the Lensed Wall wash.
- 2. Emergency (EM) and Chicago Plenum (LC) options are only available with New construction (N) installations.
- 3. Emergency (EM) frame comes with emergency battery pack and ceiling mountable test switch
- 4. The 4800lm and 6000lm packages are only available with 0-10V (Z10) dimming and have marked spacing requirements (see page 2 for spacing).
- 5. The 90 (9) CRI option is only available with 2700K (27) and 3000K (30) CCT.
- 6. ELV dimming is only compatible with up to 2500lm.
- 7. Corner (CW) and Double (DW) Wall Wash are not available with flangeless (F) option.

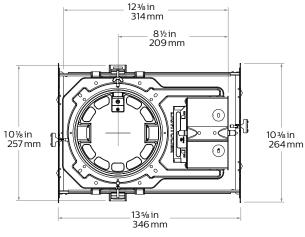


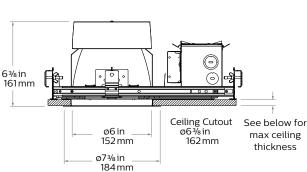


C6RWW Calculite LED generation 3

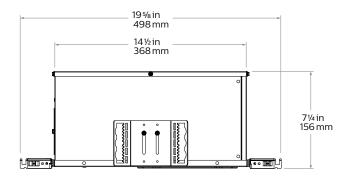
6" round wall wash

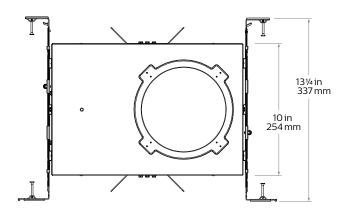
New Construction (N)

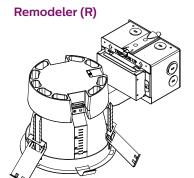




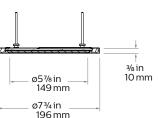
Chicago Plenum (LC)





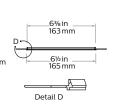


Vandal Proof accessory









Consult factory for wood installation instructions.

Marked spacing applications

Light engine	4800lm	6000lm
C6L_Z10U series	Х	Х
C6L_LU series	N/A	N/A
C6L_DU series	N/A	N/A

Modules marked with an X require marked spacing:

- Center-to-center of adjacent luminaires: 24" (610mm)
- Luminaire center to side building member: 12" (305mm)

Maxium Ceiling Thickness

Lensed Wall Wash (LW): 2-1/2" Wall Wash (WW, DW, CW): 2-3/4"

Lifetime (TM-21) data

Lumens	Narrow beam	Medium/Wide beam*
1000lm 1500lm 2000lm 2500lm 3500lm* 4800lm	L90 @ 60,000hrs.	L90 @ 60,000hrs.
6000lm	L90 @ 60,000hrs.	L80 @ 60,000hrs.

 $^{^{*}}$ Lutron 3500lm with Medium/Wide beam is L85 @ 60,000hrs.

C6RWW Calculite LED generation 3

6" round wall wash

Frame-in-kits

New Construction

Galvanized stamped steel for dry or plaster ceilings. Preinstalled telescoping mounting bars from 13" to 24". For 4' distances, use 1/2" EMT, 1-1/2" x 1/2" U or C channel.

Max ceiling thickness for Lensed Wall Wash (LW) is 2-1/2" and for Open, Corner, Double Wall Wash (WW, CW, DW) is 2-3/4".

Patented install Mounting frame

With no driver attached, this versatile frame is independent of driver accommodating a wide range of lumen packages, driver types and CCTs, including 120V and 277V inputs.

Pre-installed mounting bars allow for fast and tool-less installation into T-grid and hat channel ceilings.

Close-cut aperture design eliminates the possibility of undesired gap between ceiling opening and reflector flange.

Separate wiring compartment for wiring frame to building allows inspection prior to light engine installation.

Simple plug-and-play connection between the frame and light engine from below the ceiling eliminates the need for wiring between frame and LED driver, and also saves time during installation and future replacements/upgrades. Plug-and-play receptacle accommodates technology upgrade of light engines and replacements for the life of the building.

Drivers

- Advance 0-10V 1% Dimming
- Lutron Hi-lume EcoSystem H Series 1% Dimming
- EldoLED ECOdrive Dali 1% Dimming
- EldoLED SOLOdrive 0-10V 0.1% dimming
- ELV dimming

Optical systems

Comfort throughout the space

Patented optical system combines primary and secondary optics to provide a true 50° physical cutoff and 45° reflected cutoff virtually eliminating the view of the light source and bright spots in the reflector.

A new reflector curve reduces reflector brightness by up to 50% compared to existing products, allowing for the use of higher lumen packages in smaller apertures without creating bright spots in the ceiling.

Quality of light

2 SDCM ensures color consistency from fixture to fixture and over the luminaire's long lifetime.

Proprietary optical grade silicone lens with patterned surface provides soft, even beam diffusion without hotspots or dark rings.

Light Engine

Quick connect power pack comprised of light source and driver allow for easy installation and replacement from below ceiling with no need for additional wiring. This allows for

- Frame and ceiling installation to be performed while still finalizing details such as lumen packages, CCT and control type.
- Easy replacement of electronics at end of life with minimal wasted material and labor required.
- Ease and upgradability of technology

Options and Accessories

Flangeless mud-in ring: Use **CA6RFT** for use with flangeless installations.

Sloped ceilings: Compatible with sloped ceiling adapters (see **SCA** spec sheet).

Vandal Proof: Use C6RVPWH for an IP65 rated vandal proof matte white accessory. Must be ordered with a flangeless trim. Not available with Lensed Wall Wash.

ENERGY STAR® exceptions

- 1. Dali configurations
- 2. 90 CRI configurations
- 3. Champagne Bronze and Black finishes
- 4. 347V and Emergency configurations
- 5. ELV & EldoLED SOLO dimming

Labels and Listings

cULus listed for wet location (lensed wall washers)

CCEA (frames with *LC suffix)

IP65 rated with vandal proof accessory IBEW Union made (light engines & reflectors) RoHS compliant

Warranty

5 year warranty on complete system.

Complete warranty available at: http://images.philips.com/is/content/PhilipsConsumer/PDFDownloads/ United%20States/ODLI20150930_003-UPD-en_US-Philips-warranty-indoor-PLS-us.pdf

Narrow

	_						
Light engine	Input volts	Input freq	Input current	Drive current	Input power	THD power	Power factor
C6L10_NZ10U	120V	50/60Hz	0.08	230 mA	9W	<15%	>0.95
	277V	30/00HZ	0.04	ZSUIIIA	900	<20%	>0.95
C6L15_NZ10U	120V	50/60Hz	0.11	340 mA	15W	<10%	>0.95
	277V	30/00HZ	0.05	340IIIA	IDVV	<15%	>0.95
C6L20_NZ10U	120V	50/60Hz	0.16	460 mA	22W	<10%	>0.95
	277V		0.08	460IIIA		<15%	>0.95
	120V	50/60Hz	0.20	590 mA	25W	<10%	>0.95
C6L25_NZ10U	277V		0.10			<15%	>0.95
C6L35_NZ10U	120V	50/60Hz	0.30	900 mA	36W	<10%	>0.95
COL33_NZ IOU	277V	30/00HZ	0.14			<15%	>0.95
CCI 40 N710II	120V	50/60Hz	0.42	1250 1	51W	<10%	>0.95
C6L48_NZ10U	277V	3U/0UHZ	0.19	1250 mA		<15%	>0.95
CELEO N71011	120V	50/60Hz	0.48	1400 mA	57W	<10%	>0.95
C6L60_NZ10U	277V	30/00HZ	0.21			<15%	>0.95

Medium/Wide

Light engine	Input volts	Input freq	Input current	Drive current	Input power	THD power	Power factor
66140 1474011	120V	50/60Hz	0.08	210 mA	9W	<15%	>0.95
C6L10_MZ10U	277V	30/60HZ	0.04	ZIUIIIA	900	<20%	>0.95
66145 1474011	120V	EU/EUH-	0.11	320 mA	15W	<10%	>0.95
C6L15_MZ10U	277V	50/60Hz	0.05	320IIIA	IDVV	<15%	>0.95
C6L20_MZ10U	120V	50/60Hz	0.15	430 mA	19W	<10%	>0.95
	277V		0.07	430 MA	1900	<15%	>0.95
CELDE M710II	120V	50/60Hz	0.19	550 mA	23W	<10%	>0.95
C6L25_MZ10U	277V		0.09	SSUTIA	2300	<15%	>0.95
C613E M71011	120V	50/60Hz	0.25	570 mA	30W	<10%	>0.95
C6L35_MZ10U	277V	30/00HZ	0.11	370IIIA		<15%	>0.95
CCI 40 M710II	120V	50/60Hz	0.36	810 mA	40W	<10%	>0.95
C6L48_MZ10U	277V	30/60HZ	0.16	OIUIIIA		<15%	>0.95
C6160 M71011	120V	50/60Hz	0.50	1130 mA	57W	<10%	>0.95
C6L60_MZ10U	277V	30/00HZ	0.22	HIDOIIIA	3/00	<15%	>0.95

C6RWW Calculite LED generation 3

6" round wall wash

Adjustment factors

Finish	ССТ	Lumens	
CL = 100% CC = 95% CD = 87% CZ = 63% WH = 87% BK = 57%	80CRI 4000K = 102% 80CRI 3500K = 100% 80CRI 3000K = 97% 80CRI 2700K = 87% 90CRI 3000K = 77% 90CRI 2700K = 73%	6000lm = 202% 4800lm = 192% 3500lm = 140% 2500lm = 100% 2000lm = 80% 1500lm = 60% 1000lm = 40%	

Wall Wash, 2500lm Engine, 103.5 lm/w

Candela Curve 375 750 1125 Room side Wall side

Frame: C6RN Engine: C6L25835WZ10U Trim: C6RWWCL

Output lumens: Input watts:	3500K 2204 lms 21.3 W 80 min
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Efficacy: 103.5 lm/w Report²: F37141

Multiple unit data Footcandles on wall

	2' from wall				
	6	3' on ctr	. 💍		
1	33	24	33		
8 2	61	44	61		
2 Ge	58	60	58		
. <u>=</u> 4	46	49	46		
<u>≒</u> 5	37	37	37		
შ 6	28	29	28		
E 7	23	23	23		
¥ 8	19	19	19		
ပ္က 9	16	16	16		
क्र 10	14	14	14		
Distance from ceiling in feet 10 6 8 2 9 5 7 8 6 7 8 9 10 7	12	12	12		
14	10	10	10		

Multiple unit data

Footcandles on wall

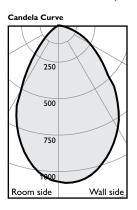
. ootea.	idics oii		anates on		
	3' from wall				3
	7	3' on ctr			6
Distance from ceiling in feet 1	15 26 37 40 38 33 28 24 20 18 14	15 26 37 42 38 33 28 24 20 18 15	15 26 37 40 38 33 28 24 20 18 14	Distance from ceiling in feet 6 8 8 2 19 19 19 19 19 19 19 19 19 19 19 19 19	

Multiple unit data

Footcandles on wall (shown above)

	3' from wall				
	6	4' on ctr			
1	13	11	13		
0 2	22	18	22		
n fee 3	31	26	31		
<u>o</u> 4	31	32	31		
	28	30	28		
ဗီ 6	25	26	25		
E 7	21	22	21		
£ 8	18	18	18		
ဗ္ဗီ 9	16	16	16		
<u>t</u> 10	14	14	14		
Distance from ceiling in feet 71 01 6 8 4 9 5 7 8 5 7	11	11	11		
14	10	10	10		

Lensed Wall Wash, 2500lm Engine, 72.2 lm/w



Frame: **C6RN** Engine: **C6L25835WZ10U** Trim: C6RLWCL

Output lumens: 153 Input watts: 21.3	OOK 8 lms 3 W min
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Efficacy: 72.2 lm/w Report²: F37142

Multiple unit data Footcandles on wall

		5	3' on ctr	. 💍
1	1	44	31	44
n feet	2	55	47	55
<u>1</u>	3	47	45	47
iling ii	4	35	36	35
	5	27	27	27
9 6	5	21	21	21
E 7		17	17	17
₹ 8	3	13	14	13
ance from ceiling in feet		11	11	11
™ 1/	Λ	10	10	1∩

Multiple unit data

Footcandles on wall

	2' from wall			3' from wall			
	3' on ctr.				7		
1	44	31	44	1	17	17	17
8 2	55	47	55	ē 2	31	31	31
Distance from ceiling in feet 7 0 6 8 2 9 5 7 8 6 7	47	45	47	in feet 2 5	35	35	35
<u>6</u> 4	35	36	35	<u>6</u> 4	33	34	33
. <u>⊨</u> 5	27	27	27	ceiling i 9 2 6	29	29	29
ဗီ 6	21	21	21	8 6	24	24	24
E 7	17	17	17	Distance from 51 0 6 8 4	20	20	20
¥ 8	13	14	13	¥ 8	17	17	17
ညီ 9	11	11	11	ပို့ 9	15	15	15
कू 10	10	10	10	声 10	13	13	13
<u>≤</u> 12	8	8	8	<u>≤</u> 12	10	10	10
14	7	7	7	14	9	9	9

Multiple unit data

Footcandles on wall (shown above)

	3' from wall			
	4' on ctr.			
Distance from ceiling in feet 7 0 6 8 4 9 9 5 7	14	11	14	
	25	22	25	
	27	25	27	
	26	25	26	
	22	22	22	
	18	19	18	
	16	16	16	
	13	13	13	
	11	11	11	
SI 12	8	8	8	
14	7	7	7	

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^{1.} Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

^{2.} Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.