PHILIPS LIGHTOLIER

Downlighting

Calculite LED gen 3 7" round wall wash

1000-6000lm



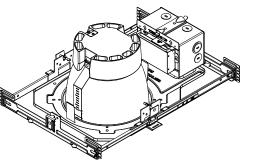
Calculite LED 7" generation 3 features industry leading visual comfort, excellent uniform illumination over time, and patented installation flexibility.

Complete product = Frame + Engine + Trim



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

Series C7	Aperture R	Installation N	Voltage/Options
C7 Calculite LED 7" aperture	R Round	N New construction	 Universal (120/277V) 3 347V¹ EM Emergency² LC Chicago Plenum



example: C6L15835NZ10U

Engine

Series C6L	Lumens	CRI	сст	Beam W	Dimming	Voltage
C6L Calculite LED 6" & 7" aperture	10 1000 lm 15 1500 lm 20 2000 lm 25 2500 lm 35 3500 lm	8 80 CRI 9 90 CRI ⁴	27 2700 K ⁴ 30 3000 K ⁴ 35 3500 K 40 4000 K	W Wide	Z10 0-10V 1% SOL EldoLED Solo 0.1% D Dali L Lutron LDE1 EcoSystem fade-to-black	U Universal (120/277/347V)
	48 4800 lm ³ 60 6000 lm ³				E ELV ⁵ (120V dimming only)	1 Universal (120/277/347V)

Trim

example: C7RLWCCP

Series	Aperture R	Style	Finish	Flange		
C7 Calculite LED 7" aperture	R Round	WWOpen Wall WashLWLensed Wall Wash1CWCorner Wall Wash6DWDouble Wall Wash6	CL Specular clear CC Comfort clear CD Comfort clear diffuse CZ Champagne bronze BK Black (matte)	 White (matte) Polished F Flangeless⁶ 		
			WH White (matte)	 White (matte) F Flangeless⁶ 		

Accessories (ordered with a flangeless trim)

CA7RFTMud-in ring for use with flangeless installations.CAEMField installable EM pack.

1. The 347V is not compatible with lumen packages over 2000lm for the Lensed Wall wash.

2. Emergency (EM) frame comes with emergency battery pack and ceiling mountable test switch.

3. The 4800lm and 6000lm packages are only available with 0-10V (Z10) dimming and have marked spacing requirements (see page 2 for spacing).

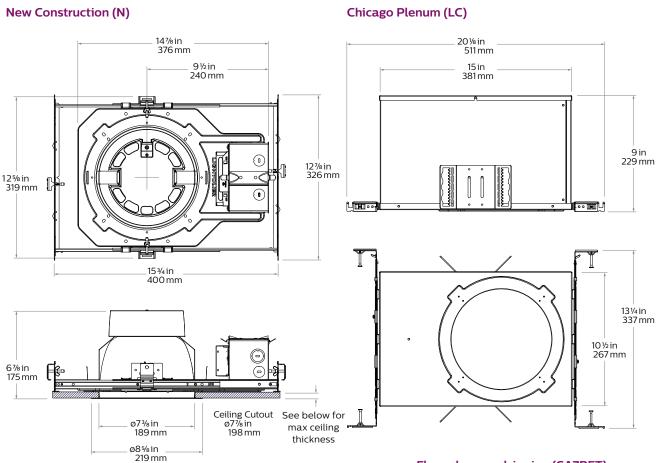
The 90 (9) CRI option is only available with 2700K (27) and 3000K (30) CCT.
 ELV dimming is only compatible with up to 2500lm.

Corner (CW) and Double (DW) Wall Wash are not available with flangeless (F) option.

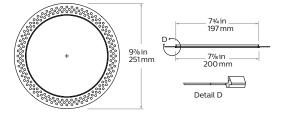


C7RWW Calculite LED generation 3

7" round wall wash



Flangeless mud-in ring (CA7RFT)



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): 3" Wall Wasl (WW, CW, DW): 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.

C7RWW Calculite LED generation 3

7" round wall wash

Frame-in-kits

New Construction

Galvanized stamped steel for dry or plaster ceilings. Preinstalled telescoping mounting bars from 15-3/4" 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 3" and for Open, Corner, Double Wall Wash (WW, CW, DW) is 2-3/4". Minimum ceiling thickness is 1/8".

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

Narrow

Light engine	Input volts	Input freq	Input current	Drive current	Input power	THD power	Power factor
C6L10_NZ10U	120V	E0/60U-	0.08	230 mA	9W	<15%	>0.95
COLIO_NZIOU	277V	50/00HZ	0.04	230111A	900	<20%	>0.95
C6L15_NZ1OU	120V	E0/60U-	0.11	340 mA	15W	<10%	>0.95
	277V	30/00HZ	0.05	54011IA	1500	<15%	>0.95
CC1.20 N74011	120V	50/COU-	0.16	400	2214/	<10%	>0.95
C6L20_NZ10U	277V	50/60HZ	0.08	460 mA	22W	<15%	>0.95
CEL25 N71011	120V	FO/COUL-	0.20	590 mA	25W	<10%	>0.95
C6L25_NZ10U	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1590 MA	2310	<15%	>0.95		
CEL2E N71011	120V	EQ/COUL-	0.30	900 mA	36W	<10%	>0.95
C6L35_NZ10U	277V	50/60HZ	0.14	900MA	3000	<15%	>0.95
	120V	50/COU-	0.42	1250 4	E114/	<10%	>0.95
C6L48_NZ10U	277V	50/60HZ	0.19	1250 mA	51W	<15%	>0.95
	120V	50/COU-	0.48	1400 4	A	<10%	>0.95
C6L60_NZ10U	277V	50/60HZ	0.21	1400 m A	57W	<15%	>0.95

CalculiteLEDgen3_7in_WallWash_C7RWW 04/17 page 3 of 4

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 CA7RFT for use with flangeless installations.

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

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) 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/ODL120150930_003-UPD-en_US-Philips-warranty-indoor-PLS-us.pdf

Medium/Wide

Light engine	Input volts	Input freq	Input current	Drive current	Input power	THD power	Power factor
C6L10_MZ10U	120V	50/60Hz	0.08	210 m A	0.11/	<15%	>0.95
COLIO_IM2100	277V	50/00HZ	0.04	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	>0.95		
C6L15_MZ10U	120V	50/60Hz	0.11	220 mA	15\/	<10%	>0.95
COLIS_WIZIOU	277V	50/00HZ	0.05	SZUTIA	1210	 <15% <20% <10% <15% <10% <15% <10% <15% <10% <15% <10% <15% <10% <15% <10% <10% 	>0.95
CEL20 M7101	120V	FO/COUL	0.15	420 m A	1014/	<10%	>0.95
C6L20_MZ10U	277V	50/60HZ	0.07	430 MA	1910		>0.95
C6L25_MZ10U	120V	50/60Hz	0.19	EEO mA	2214/	<10%	>0.95
C0125_M2100	277V	50/60HZ	0.08 210 mA 9 50Hz 0.04 210 mA 9 50Hz 0.11 320 mA 15' 50Hz 0.15 430 mA 19' 50Hz 0.19 550 mA 23 50Hz 0.25 570 mA 30' 50Hz 0.36 810 mA 40'	2300	<15%	>0.95	
C6L35_MZ10U	120V	50/60Hz	0.25	570 m A	2014	<10%	>0.95
C0L35_M2100	277V	30/00HZ	0.11	STOTIA	3000	<15%	>0.95
CEL 49 M71011	120V	FO/COUL-	0.36	010 m 4	1011	<10%	>0.95
C6L48_MZ10U	277V	50/00HZ	0.16	SIUMA	40W	<15%	>0.95
CELED 117101	120V	FO/COUL-	0.50	1120 m A	E 714/	<10%	>0.95
C6L60_MZ10U	277V	50/00HZ	0.22	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	>0.95		

7" round wall wash

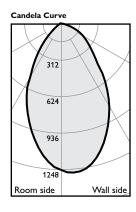
Adjustment factors

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 = 240% 4800lm = 192% 3500lm = 140% 2500lm = 100% 2000lm = 80% 1500lm = 60% 1000lm = 40%

Wall Wash, 2500lm Engine, 107.8 lm/w

Candela Curve	Frame: C7RN Engine: C6L25835WZ10U Trim: C7RWWCL	-	Multiple unit data Footcandles on wall			Multiple unit data Footcandles on wall				Multiple unit data Footcandles on wall (shown above)			
375 750 1125 1500	Output lumens: 2297 lms Input watts: 21.3 W	: 2297 lms 21.3 W		2' from wall 3' on ctr.		3' from wall				3' from wall			
	CRI: 80 min CCT ¹ : 3500K	istance from ceiling in feet	44 60 48 41 35 28 23 20 17 15 12	31 47 54 45 35 28 23 19 17 15 12	44 60 48 41 35 28 23 20 17 15 12	Distance from ceiling in feet 71 01 6 8 2 9 5 7 8 7 1	17 34 37 35 33 29 26 23 20 18 15	18 35 37 38 33 30 27 23 20 18 15	17 34 37 35 33 29 26 23 20 18 15	Distance from ceiling in feet 71 01 6 8 2 9 5 7 8 7 1	15 29 30 27 24 22 20 18 16 14 12	13 24 27 29 27 23 21 18 16 14 12	15 29 30 27 24 22 20 18 16 14 12
Boom side Wall side	Efficacy: 107.8 lm/w Report ² : F37166	盲 ¹² 14	12	12	12	ia 12 14	13	13	13	ia 12 14	12	12	12

Lensed Wall Wash, 2500lm Engine, 72.3 lm/w



Frame: C7RN Engine: C6L25835WZ10U Trim: C7RLWCL		Multiple unit data Footcandles on wall				Multiple unit data Footcandles on wall				Multiple unit data Footcandles on wall (shown above)			
Output lumens: 1541 lms Input watts: 21.3 W	- 2' from wall			3' from wall			3' from wall						
CRI: 80 min CCT ¹ : 3500K	Distance from ceiling in feet 71 01 6 8 2 9 5 7 7 1	41 49 45 36 27 22 17 14 12 11	29 42 42 35 28 22 17 14 12 11	41 49 45 36 27 22 17 14 12 11	Distance from ceiling in feet 71 01 6 8 2 9 5 5 7 1	15 29 31 28 24 21 18 15 13	15 28 31 31 28 24 21 18 15 13	15 29 31 28 24 21 18 15 13	Distance from ceiling in feet 71 01 6 8 2 9 5 5 7 1	13 23 24 24 21 18 16 14 12 10	10 20 22 23 21 19 16 14 12 10	13 23 24 24 21 18 16 14 12 10	
Efficacy: 72.3 lm/w Report ² : F37165	<u>ام</u> 12 14	9 8	8 7	9 8	<u>ام</u> 12 14	11 9	11 9	11 9	5 12 14	8 7	8 7	8 7	

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.

© 2016 Philips Lighting Holding B.V. All rights reserved. Philips reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication. philips.com/luminaires



Philips Lighting, North America Corporation 200 Franklin Square Drive, Somerset, NJ 08873 Tel. 855-486-2216

Philips Lighting Canada Ltd. 281 Hillmount Rd, Markham, ON, Canada L6C 2S3 Tel. 800-668-9008

CalculiteLEDgen3_7in_WallWash_C7RWW 04/17 page 4 of 4