



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

Complete luminaire = Frame + Engine + Trim + Accessories (optional)

Project: _____

Location: _____

Cat.No: _____

Type: _____

Lamps: _____ Qty: _____

Notes: _____

Frame

example: 6RNIP

Series	Installation	Voltage/Options
6R		
6R 6" Non-IC Round	N New construction	— Universal 120 V/277 V (specify for Power Over Ethernet) EM Emergency (see page 2 for details and limitations) ¹ IP Interact Pro ready (for 0-10V engine only)
	R Remodeler	— Universal 120 V/277 V (specify for Power Over Ethernet) IP Interact Pro ready (for 0-10V engine only)
		LC Chicago Plenum 3 347V (not compatible with ELV dimming) 3IP 347V with Interact Pro (for 0-10V engine only)
		3 347V (not compatible with ELV dimming)

Engine

example: C6L15835NZ10U

Series	Lumens	CRI	CCT	Beam	Dimming	Voltage
C6L						
C6L Calculite LED 6"	10 1000lm 15 1500lm 20 2000lm 25 2500lm ² 30 3000lm ² 35 3500lm 48 4800lm (Z10 only) 60 6000lm (Z10 only)	8 80 CRI 9 90 CRI	27 2700K 30 3000K 35 3500K 40 4000K	M Medium (56°) W Wide (76°)	Z10 0-10V 1% SOL EldoLED Solo 0-10V 0.1% D Dali 0.1% L Lutron LDE1 EcoSystem (fade-to-black) DMX Digital Multiplexing	U Universal 120 V/277 V/347 V
					E ELV (for up to 2000lm only)	1 120 V
					P Power over Ethernet (PoE) Only compatible with 1000 (10) to 2500 (25) lumen configurations.	E Ethernet 48 V DC

Trim

example: C6RWWCCP

Series	Aperture	Style	Finish	Flange
C6	R			
C6 Calculite LED 6"	R Round	WW Open Wall Wash LW Lensed Wall Wash CW Corner Wall Wash ³ DW Double Wall Wash ³	BK Black (anodized) CL Specular clear CC Comfort clear CD Comfort clear diffuse CZ Champagne bronze	— White (matte) P Polished (matches aperture) F Flangeless (requires CA6RFT)
			WH White (matte)	— White (matte) F Flangeless (requires CA6RFT)

Accessories

CA4RFT	Mud-in ring for use in flangeless trim installations (ordered with a flangeless trim)
CAEM	Field instalable EM pack (for use with new construction frame only)
AMS	ActiLume multi-sensor (optional accessory for PoE configurations)
SWZDT	SpaceWise wireless controller with dwell time functionality (compatible with all 0-10V options, see SWZDT spec sheet)
SRAINT	InterAct Office Accessory (for use with Lightolier UniFrame 0-10V products)

- Emergency (EM) frame includes emergency battery with ceiling and reflector mountable test switch (see page 2 for details and limitations).
- The 2500lm (25) and 3000lm (30) packages have marked spacing requirements (see page 3).
- Corner (CW) and Double (DW) are not compatible with flangeless (F) option.

C6SLW Calculite LED 6" gen 3

Square 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 is 2" (51 mm) including PoE frame 4.88" (124 mm) plenum depth for installation.

Emergency:

For reflector mounted emergency test switch add "EM" to end of catalog code (example: C6SLWCCEM). Leave blank for ceiling mounted test switch. Reflector mounted test switch requires above ceiling access.

Patented install Mounting frame:

- Pre-installed mounting bars for fast and tool-less installs into T-grid & hat channel ceilings.
- Close-cut aperture design eliminates possibility of gap between ceiling opening and reflector flange.
- Separate wiring compartment for wiring frame to building allows inspection prior to light engine install.
- Simple plug-and-play connection between frame and light engine from below ceiling.
- Easy alignment of fixtures and present locking at 0°, 45°, & 90° with 360° rotation via tool-less locking.

Dimming

- 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
- EldoLED DMX POWERdrive

Power over Ethernet

Powered via Lightolier PoE lighting controller:

Complies with FCC rules per Title 47 part 15 (Class A) for EMI / RFI (conducted & radiated). PoE lighting controller accessible from below ceiling.

Optical systems

Comfort throughout the space:

True 50° physical cutoff and 45° reflected cutoff

Quality of light:

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

Light Engine

Quick connect power pack 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.

Wired Controls Options

Interact Office Wired (PoE):

- PoE based IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.
- Use Interact Office software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Supports advanced IoT Apps on Personal Control, Space Management, wayfinding, room/desk reservation and offers open APIs for light control and data exchange.
- PoE lighting controller is accessible from below.
- Integral sensor option for occupancy sensing (PIR) and/or daylight harvesting available for additional energy savings.
- Optional integral emergency controller and battery pack provides 600lm nominal output.
- Test switch and indicator light mounted on side of chassis on one end.
- Emergency battery has a 3 month pre-installed shelf life, and must be stored and installed in environments of 20C to 30C (-4F to 86F) ambient, and 45-85% relative humidity.
- For more information on Interact Office Wired, visit: www.interact-lighting.com/office or www.usa.lighting.philips.com/systems/systemareas/offices.

Interact Office Wired (PoE),

Static White and Tunable White:

- A wireless IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.
- View all your projects under one dashboard and easily compare insights from multiple projects in one view.
- Compatible Zigbee Green Power wall dimmer and wireless Occupancy or Daylight & Occupancy sensors available.
- Use Interact Office software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Supports advanced IoT Apps on wayfinding, room/desk reservation and offers open APIs
- Requires compatible Interact Office Gateway and internet connectivity for commissioning.
- For more information on Interact Office Wireless, visit: www.interact-lighting.com/office or www.usa.lighting.philips.com/systems/systemareas/offices.

Interact Pro (IAP)

- Interact Pro brings the power of connected lighting to small and medium businesses without the complexity usually associated with connected lighting.
- Interact Pro includes an app, a portal and a broad portfolio of wireless Luminaires, lamps and retrofit kits all working on the same system.
- Commissioning via Interact Pro App (Android or iPhone).
- Prepare commissioning remotely via Interact Pro portal.
- Requires compatible Interact Pro Gateway and internet connectivity for commissioning.
- Compatible with UID8451/10 ZigBee Greenpower wireless dimmer switch.
- Compatible with wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) or wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- For more information on Interact Pro visit: www.interact-lighting.com/pro.
- For more information on Interact Ready visit: www.philips.com/interact-ready.

Options and Accessories

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

ENERGY STAR® exceptions

- 90 CRI configurations
- 347V & Emergency voltage/options
- Dali, EldoLED Solo & PoE drivers

Title 24 exceptions

- 1000lm configurations

Labels and Listings

- cULus listed for wet locations
- ENERGY STAR® certified
- RoHS certified
- CEC Title 24 JA8 certified
- CCEA (frames with *LC suffix)

Warranty



5 year limited warranty
Visit Signify.com/warranties for more information on Signify's standard 5-year limited warranty on complete luminaire systems.

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Square Wall Wash

Medium

Light engine	Input volts	Input freq	Input current	Drive current	Input power	LED power	THD power	Power factor
C6L10_MZ10U	120V	50/60Hz	0.08	210 mA	9W	8W	<15%	>0.95
	277V		0.04				<20%	>0.95
C6L15_MZ10U	120V	50/60Hz	0.11	320 mA	15W	11W	<10%	>0.95
	277V		0.05				<15%	>0.95
C6L20_MZ10U	120V	50/60Hz	0.15	430 mA	19W	15W	<10%	>0.95
	277V		0.07				<15%	>0.95
C6L25_MZ10U	120V	50/60Hz	0.19	550 mA	23W	19W	<10%	>0.95
	277V		0.09				<15%	>0.95
C6L35_MZ10U	120V	50/60Hz	0.25	570 mA	30W	25W	<10%	>0.95
	277V		0.11				<15%	>0.95
C6L48_MZ10U	120V	50/60Hz	0.36	810 mA	40W	34W	<10%	>0.95
	277V		0.16				<15%	>0.95
C6L60_MZ10U	120V	50/60Hz	0.50	1130 mA	57W	50W	<10%	>0.95
	277V		0.22				<15%	>0.95

Medium (Power over Ethernet)

Light engine	Input				
	Volts ¹	Voltage ²	Freq	Current	Power
C6L10__MPE	53V	51-54V	DC	160 mA	8.4 W
C6L15__MPE	53V	51-54V	DC	230 mA	12.5 W
C6L20__MPE	53V	51-54V	DC	310 mA	16.7 W
C6L25__MPE	53V	51-54V	DC	390 mA	21.4 W

1. Nominal input volts.

2. Preferred volt range.

Marked spacing applications

Light engine	4800lm	6000lm
C6L_Z10U series	X	X
C6L_LU series	—	—
C6L_DU series	—	—

Modules marked with an X require marked spacing:

– Center-to-center of adjacent luminaires: 24" (610mm)

– Luminaire center to side building member: 12" (305mm)

In accordance with CAN ICES-005-A/ NEB-005-A and FCC Part 15-A.

Lifetime (TM-21) data

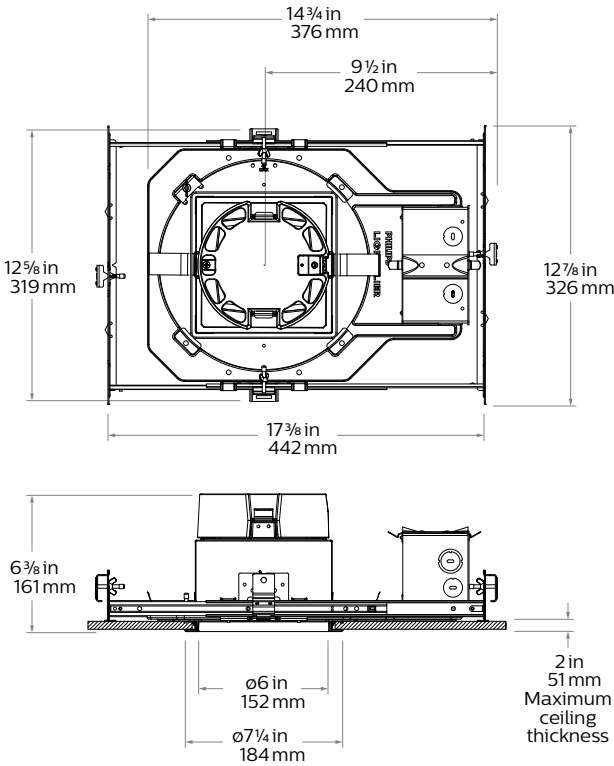
Lumens	Narrow beam	Medium/Wide beam*
1000lm 1500lm 2000lm 2500lm 3500lm* 4800lm	L90 @ 60,000 hrs.	L90 @ 60,000hrs.
6000lm	L90 @ 60,000 hrs.	L80 @ 60,000hrs.

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

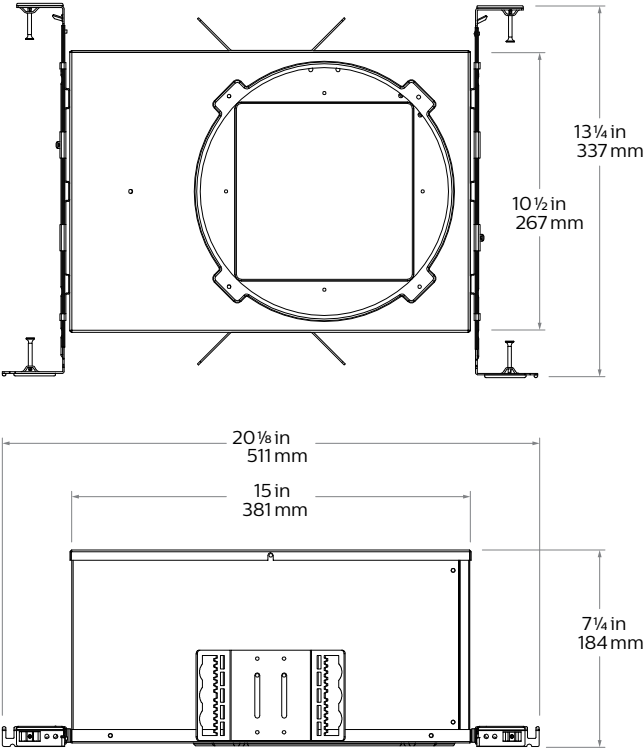
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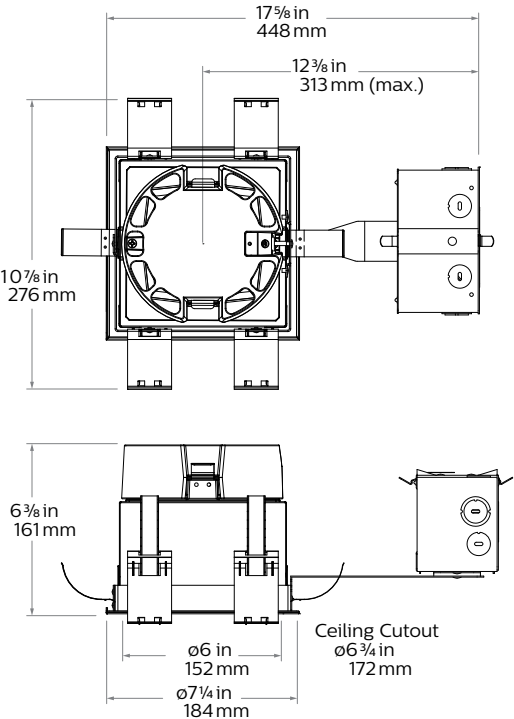
New Construction (N)



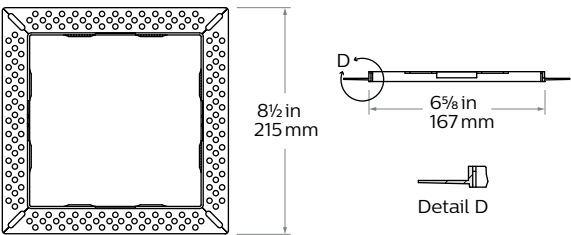
Chicago Plenum (LC)



Remodeler (R)



Flangeless mud-in ring (CA6SFT) accessory



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Reflector



Specular clear (CL): Most specular and most efficient finish, delivers maximum photometric performance but can produce a mirror image effect of the interior space.



Comfort clear (CC): Semi-specular finish that softens the light at the source of the reflector and creates a subtle, even luminance from the reflector cone.



Comfort clear diffuse (CD): Slightly diffuse clear finish, that eliminates iridescence and reduces the mirror image effect inherent with specular finishes.



White (WH): (matte) Brightest illuminated aperture and provides the smoothest transition to most ceilings when off (white is only available with a white flange).

Flange



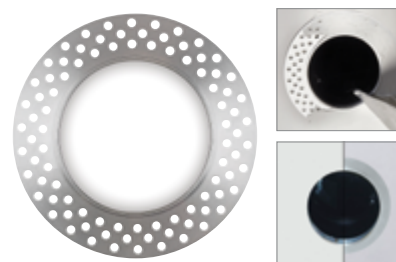
White (-): (matte) Provides the smoothest transition to ceilings when off.



Polished (P): (matches aperture) Produces a continuous look throughout the reflector (aperture matching).



Flangeless (F): (flush-mount) Creates a flush, virtually seamless transition from aperture to ceiling.



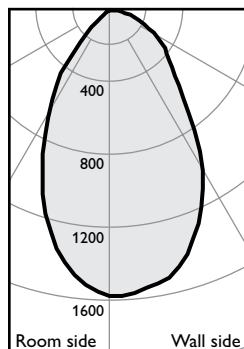
Mud-in ring (FT): Low profile, machined aluminum mud-in ring provides a raised rib to plaster up to and a 3/16" flange thickness. The ring is attached to the ceiling material as opposed to the frame-in kit to avoid conduction of heat and vibration which can cause yellowing or cracking of the plaster.

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Square Wall Wash

Lensed Wall Wash, 2500lm Engine, 91.5 lm/w or 86.3 lm/W at 22.8W (Power over Ethernet)

Candela Curve



Frame: **C6SN or 6SN**
Engine: **C6L25835MZ10U**
Trim: **C6SLWCL**

CCT¹: 3500K
Output lumens: 1968 lms
Input watts: 21.5 W (±5%)
CRI: 80 min

Efficacy: **91.5 lm/w**
Report²: I222GFR

Multiple unit data

Footcandles on wall

	2' from wall			
	3' on ctr.			
Distance from ceiling in feet	1	54	33	54
2	59	47	59	
3	53	48	53	
4	43	42	43	
5	33	33	33	
6	26	26	26	
7	22	21	22	
8	18	18	18	
9	15	15	15	
10	13	13	13	
12	11	11	11	
14	10	9	10	

Multiple unit data

Footcandles on wall

	3' from wall			
	3' on ctr.			
Distance from ceiling in feet	1	22	19	22
2	36	33	36	
3	37	36	37	
4	35	35	35	
5	33	33	33	
6	29	29	29	
7	25	25	25	
8	21	21	21	
9	19	19	19	
10	16	16	16	
12	14	13	14	
14	12	12	12	

Multiple unit data

Footcandles on wall (shown above)

	3' from wall			
	4' on ctr.			
Distance from ceiling in feet	1	19	13	19
2	30	24	30	
3	29	26	29	
4	28	26	28	
5	26	25	26	
6	22	22	22	
7	19	19	19	
8	17	17	17	
9	14	14	14	
10	13	13	13	
12	11	11	11	
14	9	9	9	

Adjustment factors

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

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSI 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.

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