LIGHTOLIER

by (signify

Downlighting

Calculite LED 6" gen 3

C6RDL Round Downlight



Project:			
Location:			
Cat.No:			
Туре:			
Qty:			
Notes:			

standard example: 6RN | BAC example: 6RN-BAC

Calculite LED 4" generation 3 provides excellent performance coupled with optimized installation flexibility via UniFrame. Industry leading visual comfort and uniform illumination make it an ideal choice for open office, institution, healthcare, and retail applications.

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

Buy American Act of 1933 (BAA)** Compliant luminaire*: Complete luminaire = Frame-BAC + Engine-BAC + Trim-BAC * BAA compliance requires that BAC option be selected for each of frame, engine, and trim. Frame and engine will be ordered/shipped together; trim will be ordered/shipped separately. Accessories (optional) are not currently BAA-compliant.

Frame

Series 6R	Installation	Voltage/Options		
6R 6" Non-IC Round	N New construction	Universal 120/277/347V EM6 Emergency, 6W Self-Test/Self-Diagnostic ¹	LC BAC	Chicago Plenum ² Meets the requirements of the Buy American Act of 1933 (BAA) **
	R Remodeler	- Universal 120/277/347V	BAC	Meets the requirements of the Buy American Act of 1933 (BAA) **

Engine

Series C6L	Lumens	CRI	сст	Beam	Dimming	Options	Voltage	Options
C6L Calculite LED 6" gen 3	10 1000lm 15 1500lm 20 2000lm 25 2500lm 30 3000lm 35 3500lm 48 4800lm ³ 60 6000lm ³	8 80CRI 9 90CRI	27 2700 K 30 3000 K 35 3500 K 40 4000 K	N Narrow (40') M Medium (56') W Wide (76')	Z10 0-10 V 1% L01 Lutron PEQO EcoSystem 0.1% (up Lutron LDE1 EcoSystem (500im no Integral Interact Pro RF sensor ⁴ (er D DALI 0.1% SOL EldoLED Solo 0-10 V 0.1% DMX Digital Multiplexing w/RDM 0.1% E Forward & Reverse Phase LTE Lutron LTE Hi-Lume Phase Cut 1% P Power over Ethernet (PoE) only co with 1000 (10) to 2500 (25) lumen con	available) hables wireless connected LIN Linear LIN Linear SQR Square 5 (500lm not available) mpatible	U 120/277V 3 347V (210 only) U 120/277V ed lighting control) U U 120/277V U 120/277V U 120/277V E Ethernet 48V DC	R Retrofit ⁵ BAC Meets the requirements of the Buy America Act of 1933 (BAA)**

Trim			sta	dard example: C6RDLCCP	BAC example: C6RDLCCP-BAC
Series C6	Aperture R	Style	Finish	Flange	Options
C6 Calculite LED 6" gen 3	R Round	DL Downlight	BK Black CC Comfort clear (annodized) CD Comfort clear diffuse CL Specular clear CZ Champagne bronze	 White (matte) Polished (matches aperture) F Flangeless (requires CA4RFT) 	IEM6 Trim mounted EM test switch BAC
			WH White (matte)	 White (matches finish) F Flangeless (requires CA4RFT) 	Meets the requisites of the Buy American Act of 1933 (BAA)**
			WHAMF White (gloss antimicrobial)	- White (matches finish)	** Failure to properly select the "BAC" suffix could result in you receiving product that
		SL Shower light	WH White (matte) WHAMF White (gloss antimicrobial)	- (not applicable)	is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of a waiver under, the Trade Agreements Act.

Accessories (Not currently BAA-compliant) learn more on page 2

SBA	Interact Ready System Bridge Accessory (refer to Philips System Bridge Accessory spec sheet for options and details)
AMS	ActiLume multi-sensor (optional accessory for POE configurations)
7925	Sloped ceiling 6" adapter for 6RN and 6RA frames
CA6RFT	Mud-in ring for use in 6" round flangeless trim installations (ordered with a flangeless trim)
CAEM6	Field-installable Bodine BSL6 6W battery pack with self-test/self-diagnostic (for new construction frames, 120-277V)
C6RVPWH	IP65 Rated vandal proof matte white accessory mounts onto flangeless trims (C6RDL*F) and new construction frame only
CAEM6TSCP	Must be ordered with EM6 frame for remote test switch, see page 2 for details
T347-75VA	347:120V step-down transformer for non-IC (N) frame only (see page 2 for details)

 Emergency (EM6) frame is compatible with reflector mounted test switch when trim is ordered with IEM6 option code (not compatible with 347V or Power over Ethernet configurations). For remote mount switch, order standard trim and CAEM6TSCP mounting plate accessory.

2. Chicago Plenum (LC) frame is not available for Buy American Compliant (BAC) configurations.

3. See marked spacings requirements on page 7.

4. Linear driver profile. See page 6 for details.

5. Retrofits select legacy Lightolier luminaires. See pages 2 and 6 for details.







mesoOptics



or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a

condition of receiving funds administered by the Department of Transportation or other federal agencies.

standard example: C6L15835NZ10U | BAC example: C6L15835NZ10U-BAC

Round Downlight

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 2.75" (70 mm) including PoE frame 4.88" (124 mm) plenum depth for installation.

Patented install Mounting frame:

- Pre-installed mounting bars for fast and toolless 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.

Retrofit

 Easily updates legacy Calculite downlights to the latest LED technology. Includes light engine, trim, and driver mounted on cover plate that mounts to junction box of previous Calculite generations. Order with RH option code at end of light engine catalog number (see details on page 5).

Compatibility:

Frames	Engines
With CFL	Use Retrofit configuration
S6132_series	C6R_ Trim + C6L_ Engine
With INC	Use Retrofit configuration
BS600_series	C6R_ Trim + C6L_ Engine
With LED	Use Retrofit configuration
C6L_N series	C4R_Trim + C6L_Engine
C6X6L_N series	C6S_Trim + C6L_Engine
P6RD N series	C6R_Trim + C6L_Engine

* Not available for retrofitting luminaires with integral emergency battery.

Emergency

Bodine BSL6 6W battery pack with self-test/ diagnostic functionality. Factory or field mounted to frame.

- For trim with integral emergency test switch, order trim with IEM6 option (ex: C6RDLCCIEM6).
- For remote ceiling mounted test switch, order standard trim (ex: C6RDLCC). Optional accessory ceiling mounting plate available (CAEM6TSCP) for remote mounted test switch.
- Refer to Calculite-LyteProfile-EasyLyte Emergency Battery Pack specification sheet for more details.

Dimming

All configurations are FCC Class A unless otherwise specified.

- Advance 0-10V 1% (Z10), logarithmic curve is standard. Specify D2O for factory-set dimto-off function, consult factory for linear dimming curve.
- EldoLED SOLODrive (SOL) 0-10v 0.1%
- Lutron PEQO (L) Hi-Lume Premier 0.1% EcoSystem
- Lutron LDE1 (L01) EcoSystem 1%
- Lutron LTE (LTE) Hi-Lume 2-wire phase cut 1%
- Electronic low voltage (E) forward or reverse phase dimming, Remodel and AirSeal IC Shallow are FCC Class B
- DALI (D) DT6 DALI 0.1%
- DMX (DMX) Digital Multiplexing with RDM 0.1%
 Dimming Options

The following are factory-set options for the

SOL, D, and DMX driver options (ex. DMXLIN): SOL/D/DMX Logarithmic (-) standard SOL/D/DMX Linear (LIN) SOL/DMX Square (SQR)

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.

MesoOptics PET optical diffusion film: Provides a smooth beam shape and mitigates color over angle with optimized luminaire efficiency.

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.
- 347V light engines are Z10 dimming only and include dedicated 347V driver. For 347V non-Z10 dimming, order T347-75VA fieldinstalled step-down transformer accessory.

Options and Accessories

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

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

CGRVPWH: includes machined aluminum ring painted white, gasketed for IP65 protection, and impact resistant polycarbonate lens (IK10). Locks in place with discrete setscrew (key included). Available also with antimicrobial fiinsh (CGRVPWHAMF).

CAEM6TSCP: Ceiling cover plate for remote mounted EM6 test switch. 1/2" (25mm) hole, 4 3/8" (109mm) x 2 3/4" (69mm) rectangular. Includes two mounting screws.

CAEM6: Field install EM6 kit with Bodine BSL6 6W battery pack with self-test/self-diagnostic, mounts to new construction frames. Includes remote ceiling plate for test switch. To mount test switch to trim for new construction frame, order trim with IEM6 option code (e.g. C6RDLCCIEM6). Refer to Calculite-LyteProfile-EasyLyte Emergency Battery Pack specification sheet for more details.

SBA: Interact Ready System Bridge Accessory. Requires IRT9015 IR remote and Interact Pro App for commissioning.

T347-75VA: Field installable 347:120V 75VA stepdown transformer, attaches to knock out on frame junction box, for use with non-IC (N) or remodel (R) frames.

ENERGY STAR® exceptions

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

Title 24 exceptions

- 1000lm configurations
- Champagne Bronze & Black finishes

Labels and Listings

- cULus listed for wet locations
- ENERGY STAR[®] certified
- RoHS certified
- CEC Title 24 JA8 certified
- CCEA (frames with *LC suffix)
- IP65 rated with vandal proof accessory

Warranty



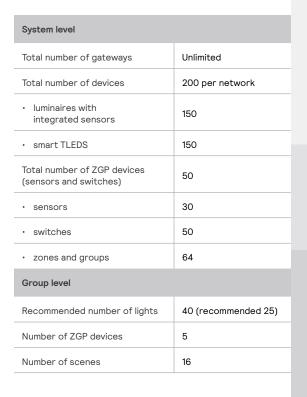
5 year limited warranty Visit Signify.com/warranties for more information on Signify's standard 5-year limited warranty on complete luminaire systems.

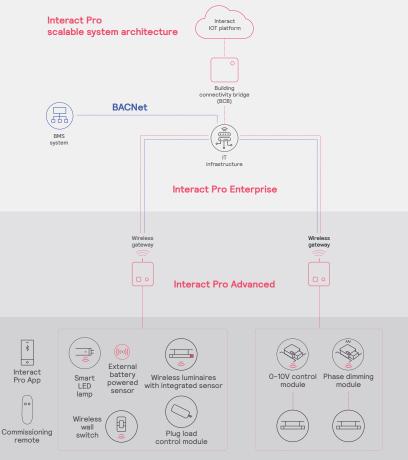
Round Downlight

		system	
interact		Interact Pro scalable	
	Foundation	Advanced	Enterprise
Dimming, grouping, and zoning	\checkmark	\checkmark	\checkmark
Bluetooth and ZigBee enabled	\checkmark	\checkmark	\checkmark
Motion sensing and daylight harvesting	\checkmark	 ✓ 	\checkmark
Integration with 0-10V and phase dimming fixtures	\checkmark	\checkmark	\checkmark
Code compliance	\checkmark	 	\checkmark
Granular dimming and dwell time	\checkmark	\checkmark	\checkmark
Energy reporting and monitoring		 	\checkmark
Scheduling		\checkmark	\checkmark
Demand response		\checkmark	\checkmark
BMS integration (BACnet)			\checkmark
Floor plan visualization			\checkmark
IoT sensors for wellness			\checkmark
IoT Apps for productivity			\checkmark

Currently supported maximum system size

To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.





Interact Pro Foundation

Round Downlight

Wireless Controls Options

Interact Pro scalable sensor

- (System Bridge Accessory with -CS option):
- CS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & BlueTooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.
- Compatible with:
- SWS200 wireless scene switch
- Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
- Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
- Battery powered IP65 presence sensor OCC sensor IA CM IP65 WH
- Battery powered IP65 presence & daylight sensor OCC-DL sensor IA CM IP65 WH
- For more information on Interact Pro visit: www.interact-lighting.com/ interactproceedeblocy.etem

interact proscalable system.

Interact Pro Enterprise (System Bridge Accessory with -SB option):

- 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 with SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1) and wireless Occupancy or Daylight & Occupancy sensors available.
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- SB option in addition to occupancy and daylight sensing supports advanced IoT capabilities such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Requires compatible Gateway and internet connectivity for commissioning.
- For more information, visit: www.interact-lighting.com/office or www.usa.lighting.philips.com/systems/systemareas/offices.

Emergency Options (ER100) (System Bridge Accessory with -ER100 option):

- Power Sensing (Factory default) Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output
- Power Interruption Detection (Field option) Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output

Radio only sensor (RA):

- Integral radio (RA) only sensor simply enables wireless mesh connectivity to the luminaire without any occupancy or daylight sensing.
- Ideal for applications where sensing functionality is managed by other Interact devices and the luminaire only needs to have wireless connectivity.
- Integral RF device affixed to the driver box (see page 6 for details).
- RA option available on light engines only.
- 120-347V universal.

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.

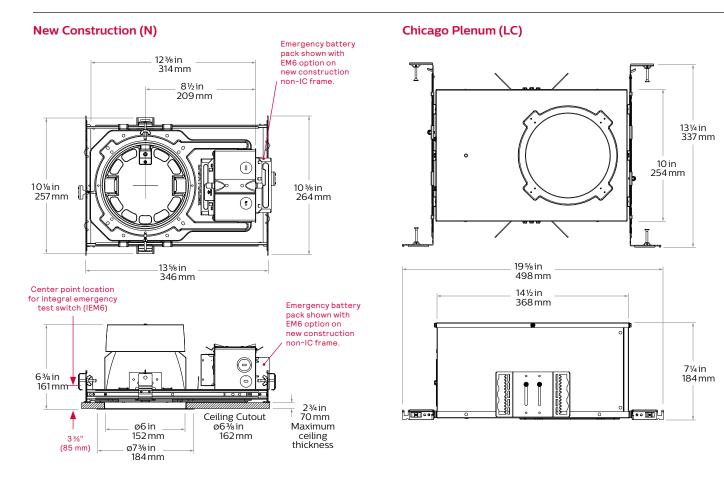
- Optional integral emergency controller and battery pack provides 600lm nominal output.
- Test switch and indicator light mounted on side of chassis on one end.
- Emergency battery has a 3 month pre-installed shelf life, and must be stored and installed in environments of 20C to 30C (-4F to 86F) ambient, 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:

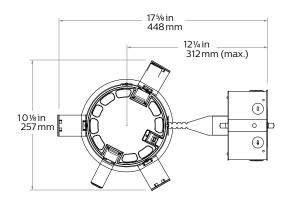
• A wireless IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.

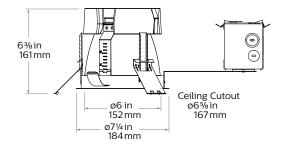
- View all your projects under one dashboard and easily compare insights from multiple projects in one view.
- Compatible Zigbee Green Power wall dimmer and wireless Occupancy or Daylight & Occupancy sensors available.
- Use Interact Office software and insights to increase building efficiency, achieve 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/ system-areas/offices.

Round Downlight

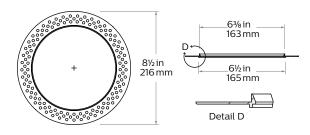


Remodeler (R)

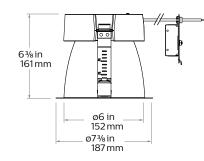




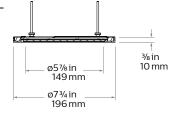
Flangeless mud-in ring (CA6RFT) accessory



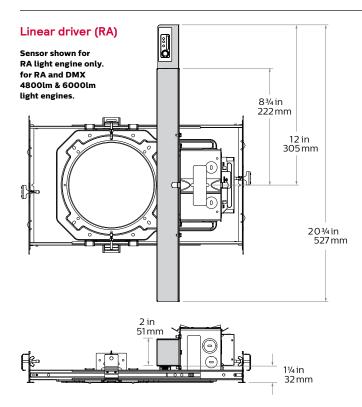
Retrofit (R) with round trim



Vandal Proof (VP) accessory



Round Downlight



Round Downlight

Narrow

Light engine	Input volts	Input freq	Input current	Drive current	Input power	LED power	THD power	Power factor
CEL10 N71011/2	120V	50/60Hz	0.08	230 mA	9W	8W	<15%	>0.95
C6L10_NZ10U/3	277V	50/60HZ	0.04	230 MA	900	800	<20%	>0.95
CC145 N74011/2	120V	50/0011-	0.11	2404	1514/	11\A/	<10%	>0.95
C6L15_NZ10U/3	277V	50/60Hz	0.05	340 mA	15W	11W	<15%	>0.95
C6L20_NZ10U/3	120V	50/0011-	0.16	460 m A	22W	16W	<10%	>0.95
	277V	50/60Hz	0.08			1000	<15%	>0.95
CC125 N74011/2	120V	50/0011	0.20	590 mA	25W	21W	<10%	>0.95
C6L25_NZ10U/3	277V	50/60Hz	0.10			2100	<15%	>0.95
CCL 35 N74011/3	120V	50/0011-	0.30		2014	2014	<10%	>0.95
C6L35_NZ10U/3	277V	50/60Hz	0.14	900 mA	36W	30W	<15%	>0.95
	120V	50/6011	0.42	1250 4	5114		<10%	>0.95
C6L48_NZ10U/3	277V	50/60Hz	0.19	1250 mA	51W	44W	<15%	>0.95
	120V		0.48			FOW	<10%	>0.95
C6L60_NZ10U/3	277V	50/60Hz	0.21	1400 m A	57W	50W	<15%	>0.95

Medium/Wide

Light engine	Input volts	input freq	Input current	Drive current	Input power	LED power	THD power	Power factor
CELLO M71011/2	120V	50/60Hz	0.08	210 mA	9W	8W	<15%	>0.95
C6L10_MZ10U/3	277V	50/60HZ	0.04	210 MA	900	011	<20%	>0.95
CEL1E M71011/2	120V	50/6011-	0.11	220 mm A	15W	11\\/	<10%	>0.95
C6L15_MZ10U/3	277V	50/60Hz	0.05	320 mA	IDVV	11W	<15%	>0.95
C6L20_MZ10U/3	120V	50/6011-	0.15	430 mA	19W	15W	<10%	>0.95
	277V	50/60Hz	0.07				<15%	>0.95
	120V	50/COUL-	0.19	550 mA	23W	19W	<10%	>0.95
C6L25_MZ10U/3	277V	50/60Hz	0.09				<15%	>0.95
CEL2E M71011/2	120V	50/6011-	0.25	570 4	30W	25W	<10%	>0.95
C6L35_MZ10U/3	277V	50/60Hz	0.11	570 m A			<15%	>0.95
CEL 49 M71011/2	120V	50/6011-	0.36	810 mA	40W	2 4147	<10%	>0.95
C6L48_MZ10U/3	277V	50/60Hz	0.16	810 MA	40W	34W	<15%	>0.95
CELEO M71011/2	120V	50/6011-	0.50	1120 mm A	E 71 M	FOW	<10%	>0.95
C6L60_MZ10U/3	277V	50/60Hz	0.22	1130 mA	57W	50W	<15%	>0.95

Narrow (Power over Ethernet)

	Input						
Light engine	Volts ¹	Voltage ²	Freq	Current	Power		
C6L10NPE	53V	51-54V	DC	160 mA	8.9 W		
C6L15NPE	53V	51-54V	DC	250 mA	13.7 W		
C6L20NPE	53V	51-54V	DC	330 mA	17.7 W		
C6L25NPE	53V	51-54V	DC	420 mA	22.8 W		

1. Nominal input volts.

2. Preferred volt range.

Marked spacing applications

Light engine	4800lm	6000lm
C6L_Z10 series	Х	Х
C6L_L01 series	Х	Х
C6L_L1 series	Х	Х
C6L_LD series	Х	Х
C6L_LTE series	Х	Х
C6L_D series	Х	Х
C6L_DMX series	Х	Х
C6L_RA series	X	Х

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.

Medium (Power over Ethernet)

	Input							
Light engine	Volts ¹	Voltage ²	Freq	Current	Power			
C6L10MPE	53V	51-54V	DC	160 mA	8.4 W			
C6L15MPE	53V	51-54V	DC	230 mA	12.5 W			
C6L20MPE	53V	51-54V	DC	310 mA	16.7 W			
C6L25MPE	53V	51-54V	DC	390 mA	21.4 W			

Wide (Power over Ethernet)

		Input										
Light engine	Volts ¹	Voltage ²	Freq	Current	Power							
C6L10WPE	53V	51-54V	DC	160 mA	8.4 W							
C6L15WPE	53V	51-54V	DC	230 mA	12.5 W							
C6L20WPE	53V	51-54V	DC	310 mA	16.7 W							
C6L25WPE	53V	51-54V	DC	390 mA	21.4 W							

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.

Round Downlight

Polished Reflectors



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.



Vandal proof (VP): Provides an elegant solution for vandal resistant needs. One piece machined aluminum ring with impact resistant clear lens. Flangeless (F) flange must be ordered. Provides the luminaire with an IK10 impact and IP65 rating.



Champagne bronze (CZ): Semi-specular finish that softens light at the source of the reflector while providing a warmer reflector appearance (slightly warmer).



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



Black (BK): (anodized) Specular finish that provides the lowest aperture brightness possible and significantly reduces source identification in a ceiling.



Shower light (SL): Wet location rated shower light with clear acrylic lens applicable in any installation requiring dead front trims, interior or exterior noncorrosive applications, or where a diffused lens at the ceiling is required (non-conductive).



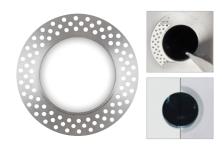
Flanges



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.

Round Downlight

Narrow beam, 2500lm Engine, 103.0 lm/W or 108.0 lm/W at 22.8W (Power over Ethernet)

%Luminaire

85.8%

96.8%

99.9%

100.0%

Lumens

423

856

834

270

72

4

2

1

0

Lumens

2113

2383

2459

2462

Mean CP

4938

4667

3948 3027

2456 1936

977

352 205

87

13

4

3

2

1

1

0

1

ò

1896 2319

2450

2454

Mean CP

2886

2900

2903

2809

2472

1880

1178

644

347

153

23

6

4 3

2

1

1

0

0

5

10

15

20

25 30 35

40

45

50

55

60

65

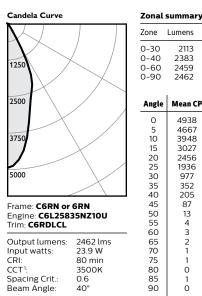
70

75

80

85

90



ingle unit data									
Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*							
5'	198	3.0'							
6'	137	3.6'							
7'	101	4.2'							
8'	77	4 8'							

61

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

9'

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.								
5'	5' 114.3									
6'	75.0	0.70								
7'	53.6	0.50								
8'	44.7	0.41								
9'	35.7	0.33								
38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances										
Efficacy: 103.0 lm/w										

Report²: F37145

Finish CCT Lumens CL = 100% 80CRI 4000K = 103% 6000lm = 202% cc = 95% 80CRI 3500K = 100% CD = 87% 80CRI 3000K = 95%

4800lm = 192% 3500lm = 140% 80CRI 2700K = 93% 2500lm = 100% 2000lm = 80% 1500lm = 60% 1000lm = 40% 90CRI 3000K = 83% 90CRI 2700K = 78%

Coefficients of utilization

Adjustment factors

87%

ĊΖ = 63%

BK = 57%

5.4'

WH =

Ceiling	80%		70%		50%		30	0%			
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zo	Zonal cavity method - Effective floor reflectance = 20%									
Room Cavity Ratio 0 6 8 2 9 5 5 2 0 0	119 114 109 105 100 96 92 88 85 81 78	119 112 105 99 94 89 84 80 76 73 70	119 109 101 95 89 84 79 75 71 68 65	119 107 98 91 85 80 75 71 67 64 61	116 110 103 98 93 88 83 79 76 72 69	116 106 97 90 85 79 75 71 67 64 61	111 105 100 95 90 86 82 78 75 72 68	111 102 95 89 84 79 74 71 67 64 61	106 102 97 93 88 84 81 77 74 71 68	106 99 93 88 83 78 74 70 67 64 61	100 95 90 85 80 76 72 69 65 65 62 59

Medium beam, 2500lm Engine, 115.2 lm/W or 114.7 lm/W at 21.4W (Power over Ethernet)

77.2% 94.5%

99.8%

Lumens

277

777

842

423

124

8

3

1

0

100.0%

Candela Curve Zonal summary Zone Lumens %Luminaire 0-30 0-40 750 0-60 0-90 1500 Angle 2250 3000 Frame: C6RN or 6RN Engine: C6L25835MZ10U Trim: C6RDLCL Output lumens: 2454 lms Input watts: 21.3 W CRI 80 min 3500K CCT1 Spacing Crit.: 0.8 Beam Angle: 55

Single unit da	ata	
Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	115	4.0'
6'	80	4.8'
7'	59	5.6'
8'	45	6.4'
9'	36	7.2'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

	Spacing on center	Initial center beam foot-candles	Watts per sq. ft.							
	5'	112.7	0.94							
	6'	74.0	0.62							
	7'	52.8	0.44							
	8'	44.0	0.37							
	9'	35.2	0.30							
	38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances									

Adjustment factors

Aujustinent ia	ictors	
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 2700K = 77% 90CRI 2700K = 73%	6000lm = 240% 4800lm = 192% 3500lm = 140% 2500lm = 100% 2000lm = 80% 1500lm = 60% 1000lm = 40%

Coefficients of utilization

Ceiling		80	0%		70	70%		50%		50% 30%		0%	0%		
Wall	70	50	30	10	50	10	50 10		50 10		50 10		50	10	0
RCR	Zo	Zonal cavity method - Effective floor reflectance = 20%									0%				
Room Cavity Ratio 0 6 8 2 9 5 7 8 7 1 0	119 114 108 103 98 94 89 85 81 77 74	119 111 104 97 91 86 81 76 72 68 65	119 109 100 92 86 80 75 70 66 63 59	119 107 97 89 82 76 71 66 62 59 55	116 109 102 96 90 85 80 76 71 68 64	116 105 96 88 81 76 71 66 62 59 55	111 105 99 93 88 83 78 74 70 67 63	111 102 94 87 80 75 70 66 62 58 55	106 101 96 91 86 81 77 73 69 66 63	106 99 92 85 79 74 70 66 62 58 55	100 94 88 82 77 72 68 64 60 57 54				

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.

Round Downlight

Wide beam, 2500lm Engine, 108.3 lm/W or 107.8 lm/W at 21.4W (Power over Ethernet)

Candela Curve	Zonal	summary		Single unit data				ment	fact	tors								
	Zone	Lumens %	%Luminaire	Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*	Finish		C	CT					Lum	nens		
375 0-30 1394 60.4% 0-40 2059 89.2% 0.60 2302 99.8% 0-90 2307 100.0% 100.0% 100.0%				5' 64 5.5' 6' 45 6.6' 7' 33 7.7' 8' 25 8.8'				CL = 100% CC = 95% CD = 87% CZ = 63% WH = 87%			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%			2% 0% 0% 0%
750	Angle	Mean CP	Lumens	9'	20	9.9'	BK =	57%		JOCK	1270	0K =	= 73			0lm = 0lm =		0% 0%
	0	1612 1641	159	* Beam diam drop to 50%	Coefficients of utilization													
1125	10 15	1705 1760	495	Multinle uni	t data - RCR 2		Ceiling		80	0%		70	0%	50	0%	30	%	0%
	20 25	1740 1629	740				Wall	70	50	30	10	50	10	50	10	50	10	0
1500	30	1408		Spacing on center	Initial center beam foot-candles	Watts per sq. ft.	RCR	Zo	nal ca	avity r	netho	d - Ef	fectiv	e floo	r refle	ectanc	e = 20)%
	35 40	1083 700	665	5'	104.1	0.94	0	119	119	119	119	116	116	111	111			
Frame: CGRN or GRN Engine: C6L25835WZ10U Trim: C6RDLCL	45 50 55 60	270 39 9 5	232 12	6' 7' 8' 9'	68.3 48.8 40.7 32.5	0.62 0.44 0.37 0.30	ty Ratio F u c L	113 107 101 95	110 102 94 87	108 98 89 81	105 94 85 77	108 100 93 86	104 93 84 76	104 97 90 84	100 91 83 76	100 94 88 82	97 89 81 75	93 85 79 72
Output lumens: 2307 lms Input watts: 21.3 W CRI: 80 min CCT ¹ : 3500K Spacing Crit.: 1.1	65 70 75 80 85	3 2 1 1 1	3 1 1	38' x 38' x 10 above floor, 3 Efficacy: 10	' Room, Workplan 30/50/20% Reflec 98.3 lm/w	e 2.5'	Room Cavii 6 & 2 9 5 .	90 85 80 76 72	81 75 70 66 61	75 69 64 59 55	70 64 59 55 51	80 75 70 65 61	70 64 59 55 51	78 73 68 64 60	69 64 59 54 50	77 72 67 63 59	69 63 58 54 50	66 61 57 52 49
Beam Angle: 72°	90	0		Report ² : F3	37140		10	68	57	51	47	57	47	56	47	55	47	45

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.

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