LIGHTOLIER

by (s) ignify

Downlighting

Calculite LED 6" gen 3

C6RDL Round Downlight



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

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

Buy American Act of 1933 (BAA)² 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.

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

Frame	standard example: 6RN	BAC example: 6RN-BAC
-------	-----------------------	----------------------

Series	Installation	Voltage	e/Options		
6R					
6R 6" Non-IC Round	N New construction	RADIO EM LC	Universal 120 V/277 V (specify for Power Over Ethernet) Integral Interact Pro RF sensor (enbales wireless connected lighting control) ^{1,2} Emergency (see page 2 for details and limitations) ³ Chicago Plenum ⁴		347 V (not compatible with ELV dimming) Integral Interact Pro RF sensor (enbales wireless connected lighting control) ^{1,2} Meets the requirements of the Buy American Act of 1933 (BAA) ⁵
	R Remodeler	_ 3	Universal 120 V/277 V (specify for Power Over Ethernet) 347 V (not compatible with ELV dimming)	ВАС	Meets the requirements of the Buy American Act of 1933 (BAA) ⁵

Engine standard example: C6L15835NZ10U | BAC example: C6L15835NZ10U-BAC

Series	Lumens	CRI	сст	Beam	Dimming	Voltage	Options
C6L							
C6L Calculite LED 6"	10 1000 lm 15 1500 lm 20 2000 lm 25 2500 lm ⁶ 30 3000 lm ⁶	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 0-10V 1% SOL EldoLED Solo 0-10V 0.1% D Dali 0.1% L Lutron LDE1 EcoSystem (fad DMX Digital Multiplexing	U Universal 120 V/277 V/347 V e-to-black)	BAC Meets the requirements of the Buy American Act
	35 3500 lm 48 4800 lm (Z 60 6000 lm (Z				E ELV (for up to 2000lm only) P Power over Ethernet (PoE) Only compatible with 1000 (10) to 250	1 120 V E Ethernet 48 V DC	of 1933 (BAA)

Trim standard example: C6RDLCCP | BAC example: C6RDLCCP-BAC

Series	Aperture	Style	Finish	Flange	Options
C6	R	DL			
C6 Calculite LED 6"	R Round	DL Downlight	(annodized) CD Comfort clear diffuse	White (matte)P Polished (matches aperture)F Flangeless (requires CA6RFT)	BAC Meets the requirements
			WH White (matte)	White (matte)F Flangeless (requires CA6RFT)	of the Buy American Act of 1933 (BAA) ⁵
		SL Shower light ⁷	WH White (matte)	- Not applicable	0. 1333 (B. 0.)

Accessories (Not currently BAA-compliant)

Interact Ready System Bridge Accessory (refer to Philips System Bridge Accessory spec sheet for options and details)²

SWZDT SpaceWise wireless controller with dwell time functionality

CAEM Mud-in ring for use in 6" round flangeless trim installations (ordered with a flangeless trim)

Field instalable EM pack (for use with new construction frame only)

(compatible with all 0-10V options, see SWZDT spec sheet)

7925 Sloped ceiling 6" adapter for 6RN and 6RA frames

CGRVPWH IP65 Rated vandal proof matte white accessory mounts onto flangeless trims (C4RDL*F) and new construction frame only

- 1. Interact Pro (RADIO & 3RADIO) requires above ceiling access.
- 2. Requires IRT9015 IR remote & Interact Pro App for commissioning.
- Emergency (EM) frame includes emergency battery with ceiling and reflector mountable test switch (see page 2 for details and limitations).
- 4. Chicago Plenum (LC) frame is not available for Buy American Compliant (BAC) configurations.
- 5. Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, 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.

ActiLume multi-sensor (optional accessory for PoE configurations)

- 6. The 2500lm (25) and 3000lm (30) packages have marked spacing requirements (see page 3).
- Non-conductive flush mount lens with pre-installed gasket (matte white non-conductive flange with diffuse lens that is flush with the flange).



AMS









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.

Emergency:

For reflector mounted emergency test switch add "EM" to emd of catalog code (example: C6RDLCCEM). 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 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.

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.

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).

Vandal Proof: Use C6RVPWH for an IP65 rated vandal proof matte white accessory. Must be ordered with flangeless trim and new construction frame.

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

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:
 - UID8451/10 wireless dimmer switch
 - 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/interactproscalablesystem

SpaceWiseDT (SWZDT) (SWZDT Accessory):

- Remote mounted and centralized SWZDT module accessory controls multiple luminaires.
- · Compatible with any 0-10v driver
- · 120-347V mains input voltage
- · Up to 730VA load at 120V

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 UID8451/10 wireless dimmer switch, 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/system-areas/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 (RADIO):

- Integral RADIO 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.

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.
- $\boldsymbol{\cdot}$ 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/system-areas/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

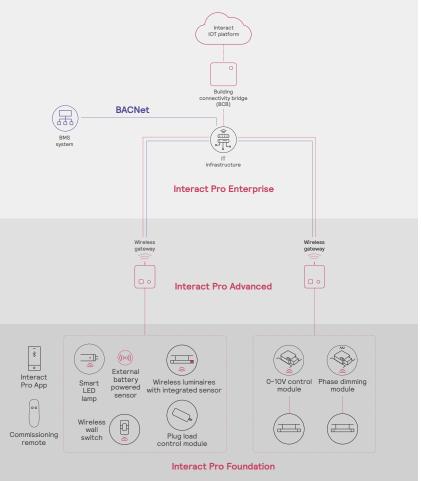
Round Downlight

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

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.

System level	
Total number of gateways	Unlimited
Total number of devices	200 per network
luminaires with integrated sensors	150
· smart TLEDS	150
Total number of ZGP devices (sensors and switches)	50
· sensors	30
• switches	50
zones and groups	64
Group level	
Recommended number of lights	40 (recommended 25)
Number of ZGP devices	5
Number of scenes	16



Interact Pro scalable system

Round Downlight

Narrow

	Input	Input	Input	Drive	Input	LED	THD	Power
Light engine	volts	freq	current	current	power	power	power	factor
C6L10_NZ10U	120V	50/60Hz	0.08	230 mA	9W	8W	<15%	>0.95
COLIO_NZIOO	277V	30/00HZ	0.04	ZSUIIIA	900	OVV	<20%	>0.95
CELSE NZSOU	120V	50/60Hz	0.11	240 4	15W	11W	<10%	>0.95
C6L15_NZ10U	277V	30/60HZ	0.05	340 mA	IDW	IIVV	<15%	>0.95
CG1 20 N71011	120V	50/60Hz	0.16	460 mA	22W	16W	<10%	>0.95
C6L20_NZ10U	277V	30/60HZ	0.08	46UIIIA	ZZVV		<15%	>0.95
	120V	50/60Hz	0.20	590 mA	25W	21W	<10%	>0.95
C6L25_NZ10U	277V		0.10				<15%	>0.95
CGL 25 N71011	120V	50/60Hz	0.30	000 4	36W	30W	<10%	>0.95
C6L35_NZ10U	277V	30/60HZ	0.14	900 mA			<15%	>0.95
CCI 40 N710II	120V	E0/60U=	0.42	1250 00 1	51W	44W	<10%	>0.95
C6L48_NZ10U	277V	50/60Hz	0.19	1250 mA	DIW		<15%	>0.95
CELED N71011	120V	F0/60U=	0.48	1400 4	E7\M	50W	<10%	>0.95
C6L60_NZ10U	277V	50/60Hz	0.21	1400 mA	57W		<15%	>0.95

Medium/Wide

Light engine	Input volts	Input freq	Input current	Drive current	Input power	LED power	THD power	Power factor
CEL10 M710H	120V	50/60Hz	0.08	210 m A	9W	014/	<15%	>0.95
C6L10_MZ10U	277V	30/60HZ	0.04	210 mA	900	8W	<20%	>0.95
66145 1474011	120V	F0/C011-	0.11	220 4	15\4/	1114/	<10%	>0.95
C6L15_MZ10U	277V	50/60Hz	0.05	320 mA	15W	11W	<15%	>0.95
66130 1474011	120V	F0/C011-	0.15	430 mA	19W	15W	<10%	>0.95
C6L20_MZ10U	277V	50/60Hz	0.07				<15%	>0.95
	120V	50/60Hz	0.19	550 mA	23W	19W	<10%	>0.95
C6L25_MZ10U	277V		0.09				<15%	>0.95
66135 1474011	120V	F0/C011-	0.25	570	2011/	25W	<10%	>0.95
C6L35_MZ10U	277V	50/60Hz	0.11	570 mA	30W		<15%	>0.95
661.40 1474011	120V	F0/C011-	0.36	010 4	40)4/	2.4147	<10%	>0.95
C6L48_MZ10U	277V	50/60Hz	0.16	810 mA	40W	34W	<15%	>0.95
C6L60_MZ10U	120V	50/C011-	0.50	1120 1	F7\A/	FOW	<10%	>0.95
	277V	50/60Hz	0.22	1130 mA	57W	50W	<15%	>0.95

Narrow (Power over Ethernet)

	Input							
Light engine	Volts1	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			
C6L2ONPE	53V	51-54V	DC	330 mA	17.7 W			
C6L25NPE	53V	51-54V	DC	420 mA	22.8 W			

Medium (Power over Ethernet)

	Input							
Light engine	Volts1	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	Volts1	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			
C6L25 WPE	53V	51-54V	DC	390 mA	21.4 W			

Marked spacing applications

Light engine	4800lm	6000lm
C6L_Z10U series	X	Х
C6L_LU series	_	_
C6L_DU series	_	_

Modules marked with an X require marked spacing:

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 @ 60,000hrs.	L90 @ 60,000hrs.
6000lm	L90 @ 60,000hrs.	L80 @ 60,000hrs.

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

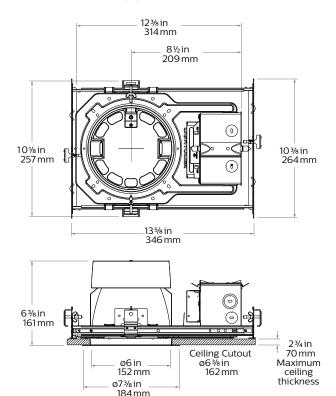
Nominal input volts.
 Preferred volt range.

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

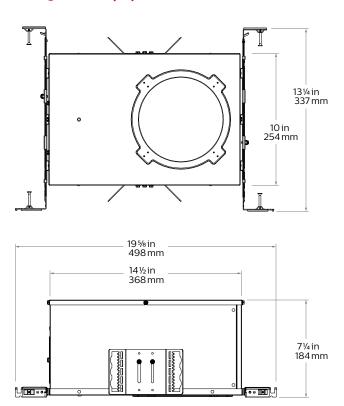
⁻ Luminaire center to side building member: 12" (305mm)

Round Downlight

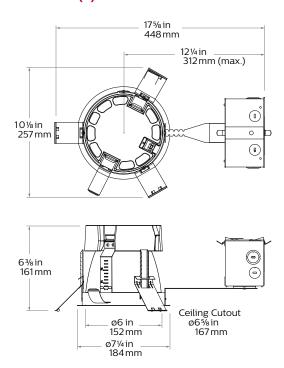
New Construction (N)



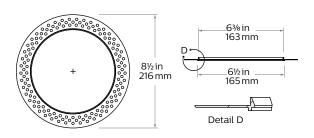
Chicago Plenum (LC)



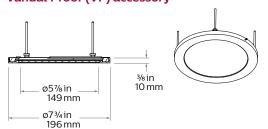
Remodeler (R)



Flangeless mud-in ring (CA6RFT) accessory



Vandal Proof (VP) accessory



Round Downlight

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.



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



Flange

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



White (-): (matte) Provides the smoothest

transition to ceilings when off.

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



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.



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



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





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.



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





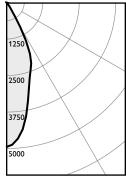


Mud-in ring (FT): Low profile, machined aluminum mud-in ring provides a raised rib to plaster up to and a 3/16" flange thickness. The ring is attached to the ceiling material as opposed to the frame-in kit to avoid conduction of heat and vibration which can cause yellowing or cracking of the plaster.

Round Downlight

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

Candela Curve



Frame: C6RN or 6RN Engine: C6L25835NZ10U Trim: C6RDLCL

Output lumens: 2462 lms Input watts: CRI: 80 min CCT^1 3500K Spacing Crit.: Beam Angle:

Zonal summary

Zone	Lumens	%Luminaire
0-30	2113	85.8%
0-40	2383	96.8%
0-60	2459	99.9%
0-90	2462	100.0%

Angle | Mean CP | Lumens

0	4938	
5	4667	423
10	3948	
15	3027	856
20	2456	
25	1936	834
30	977	270
35	352	270
40	205	70
45	87	72
50 55	13 4	4
60	3	4
65	2	2
70	1	
75	i	1
80	Ö	'
85	1	0
90	ó	
	-	

Single 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'
9'	61	5.4'

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

Multiple unit data - RCR 2

	cing enter	Initial center bean foot-candles	n Watts per sq. ft.
5 7 8	5' 7' 8'	114.3 75.0 53.6 44.7 35.7	1.06 0.70 0.50 0.41 0.33

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Efficacy: 103.0 lm/w Report²: F37145

Adjustment factors

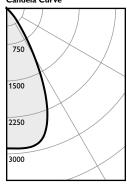
Finish	CCT	Lumens
CL = 100% CC = 95% CD = 87% CZ = 63% WH = 87% BK = 57%	80CRI 4000K = 103% 80CRI 3500K = 100% 80CRI 3000K = 95% 80CRI 2700K = 93% 90CRI 3000K = 83% 90CRI 2700K = 78%	6000lm = 202% 4800lm = 192% 3500lm = 140% 2500lm = 100% 2000lm = 80% 1500lm = 60% 1000lm = 40%

Coefficients of utilization

Ceiling		80)%		70)%	50)%	30)%	0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zo	nal ca	avity r	netho	d - Ef	fectiv	e floc	r refle	ectan	ce = 20	0%
Room Cavity Ratio 0 6 8 2 9 5 7 8 5 10	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 62 59

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

Candela Curve



Frame: C6RN or 6RN Engine: **C6L25835MZ10U** Trim: C6RDLCL

Output lumens:	2454 lms
Input watts:	21.3 W
CRI:	80 min
CCT1:	3500K
Spacing Crit.:	0.8
Ream Angle	55°

Zonal summary

Zone	Lumens	%Luminaire
0-30	1896	77.2%
0-40	2319	94.5%
0-60	2450	99.8%
0-90	2454	100.0%

Mean CP Lumens

0	2886	
5	2900	277
10	2903	
15	2809	777
20	2472	
25	1880	842
30	1178	
35	644	423
40	347	
45	153	124
50	23	
55	6	8
60	4	
65	3	3
70	2	
75	1	1
80	1	
85	1	0
90	0	

Single unit data

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

Initial center beam foot-candles	Watts per sq. ft.
112.7	0.94
	0.62
	0.44
44.0	0.37
35.2	0.30
	foot-candles 112.7 74.0 52.8 44.0

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Efficacy: 115.2 lm/w Report²: F37135

Adjustment factors

Finish	CCT	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%			

Coefficients of utilization

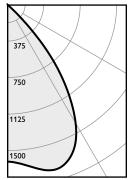
Ceili	ng		80)%		70)%	50)%	30)%	0%
Wal	l	70	50	30	10	50	10	50	10	50	10	0
RCR		Zo	nal c	avity r	netho	d - Ef	fectiv	e floc	r refle	ectan	ce = 20	Э%
Room Cavity Ratio	1 2 3 1	119 114 108 103 98 94 89 85 81 77	119 111 104 97 91 86 81 76 72 68 65	119 109 100 92 86 80 75 70 66 63 59	119 107 97 89 82 76 71 66 62 59	116 109 102 96 90 85 80 76 71 68 64	116 105 96 88 81 76 71 66 62 59	111 105 99 93 88 83 78 74 70 67 63	111 102 94 87 80 75 70 66 62 58	106 101 96 91 86 81 77 73 69 66 63	106 99 92 85 79 74 70 66 62 58	100 94 88 82 77 72 68 64 60 57

- 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 Curv



Frame: C6RN or 6RN Engine: C6L25835WZ10U Trim: C6RDLCL

2307 lms
21.3 W
80 min
3500K
1.1
72°

Zonal summary

Zone	Lumens	%Luminaire
0-30	1394	60.4%
0-40	2059	89.2%
0-60	2302	99.8%
0-90	2307	100.0%

Angle Mean CP Lumens

0 5	1612 1641	159
10 15	1705 1760	495
20 25	1740 1629	740
30 35	1408 1083	665
40 45	700 270	232
50 55	39 9	12
60 65	5 3	3
70 75	2 1	1
80 85	1 1	1
00	ا ا	1

Single unit data

Initial center beam foot-candles	Beam diameter (ft)*
64	5.5'
45	6.6'
33	7.7'
25	8.8'
20	9.9'
	foot-candles 64 45 33 25

^{*} 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' 6' 7' 8' 9'	104.1 68.3 48.8 40.7 32.5	0.94 0.62 0.44 0.37 0.30
-		_	

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Efficacy: 108.3 lm/w Report²: F37140

Adjustment factors

Finish	CCT	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%

Coefficients of utilization

Ceiling		80)%		70)%	50)%	30)%	0%
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zo	nal ca	avity r	netho	d - Ef	fectiv	e floc	or refle	ectan	ce = 20	Э%
Room Cavity Ratio 0 6 8 2 9 5 7 8 5 1 0	119 113 107 101 95 90 85 80 76 72 68	119 110 102 94 87 81 75 70 66 61 57	119 108 98 89 81 75 69 64 59 55		116 108 100 93 86 80 75 70 65 61	116 104 93 84 76 70 64 59 55 51 47	111 104 97 90 84 78 73 68 64 60 56	111 100 91 83 76 69 64 59 54 50 47	106 100 94 88 82 77 72 67 63 59 55	106 97 89 81 75 69 63 58 54 50 47	100 93 85 79 72 66 61 57 52 49 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.



© 2021 Signify Holding. All rights reserved. The information provided herein is subject to change, without notice. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify.

Signify North America Corporation 200 Franklin Square Drive, Somerset, NJ 08873 Telephone 855-486-2216 Signify Canada Ltd. 281 Hillmount Road, Markham, ON, Canada L6C 2S3 Telephone 800-668-9008

all trademarks are owned by Signify Holding or their respective owners.