LIGHTOLIER

by (signify

Downlighting

Calculite 3"

C3RWW Round wall wash

Calculite 3" features industry leading visual comfort, excellent uniform illumination over time, and patented installation flexibility. Efficient and effective optical system distributes 70% of the light on the wall for open office, retail, hospitality, healthcare, and residential applications.

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

Frame	Note: For remodeler installations, order	light engine and trim only (no frame needed). example: 3RAS				
Series 3R	Installation	Voltage/Options				
3R Uniframe 3" round frame	N New Construction Non-IC	 Universal 120/277/347V¹ LC Chicago plenum 347V (for non-0-10v configurations)³ 	EM6 Emergency, 6W Self-Test/Self-Diagnostic ² RADIO Integral Interact Pro RF sensor (requires above ceiling access - enables wireless connected lighting control)			
	A AirSeal IC (10001m max)	- Standard Universal 120/277/347V ¹	S Shallow Universal 120/277/347V ^{1.4}			

Engine

Series C3L	Lumens	CRI 9	Beam N	Dimming	Plenum
C3L Calculite 3" light engine		927 90 CRI/2700K 930 90 CRI/3000K 935 90 CRI/3500K 940 90 CRI/4000K 9D2W 90 CRI/3000K-1800K for Non-IC (N) frames only	N Narrow (33°)	Z10U 0-10V 1% / Unv (120V/277V) Z103 0-10v 1% (347V) ^{6.7} LU Lutron PEQ0 (Dim to 0.1%) / Unv (120V/277V/347V) E1 Electronic low voltage (120V dimming)	- Standard
	07 7501m	927 90 CRI/2700K 930 90 CRI/3000K 935 90 CRI/3500K 940 90 CRI/4000K	N Narrow (33°)	Z10U 0-10V 1% / Unv (120V/277V) Z103 0-10v 1% (347V) ^{6,7} E1 ELV (120V dimming) / Unv (120V/277V/347V) Unv (120V/277V/347V)	R Remodeler ⁸ (120/277V only) S Shallow

Trim	Trim example: C3RLWBTF							
Series C3R	Style LW	Reflector	Flange	Туре	SBA Interact Ready S Accessory (refer			
C3R Calculite 3" round trim	LW Lensed wall wash (for remodeler & new construction) 1500lm (15) engine limit and should not be used in Airseal configurations.	BK Black (anodized) CL Specular clear CC Comfort clear CD Comfort clear diffuse CZ Champagne bronze (anodized) WH White (matte)	 White (matte) P Matching reflector F Flangeless⁸ White (matte) 	- Standard depth with 50° cutoff	Bridge Accessory s for options and ord CAEM6 Field installable E 6W battery pack self-diagnostic fr construction frai			
	configurations.		F Flangeless ⁸		CA3SFT			
		WT Textured white (painted)	 P Matching reflector F Flangeless⁸ 		Mud-in ring for us in flangeless inst (ordered with a flar			
		BTTextured black (painted)BZBronze (painted)DAluminum diffuse (painted)	 White (matte) P Matching reflector F Flangeless⁸ 		(order & install sepa			

1. Universal 120-347V is for 0-10v (Z10) dimming configurations only.

For 347V non-Z10 dimming, order 347V (3) frame with (U) light engine/trim.

2. Emergency (EM6) frame requires remote mounted test switch.

Order CAEM6TSCP mounting plate accessory. (not compatible with 347V). 3. Not compatible with electronic low voltage light engine dimming option (E).

4. Must order shallow IC frame (S), shallow engine (S) for complete shallow assembly. Standard depth and regress (S) trims are compatible with shallow light engines (S).

5. The 1500lm (15) option is not available with standard AirSeal IC frame (3RA-).

6. Specify standard UNV frame for use with 347V light engines

The 347V light engine voltage option is available only with Z10 dimming option. 7.

For other dimming protocols order (U) light engine and 347V (3) frame For remodeler installations, order light engine and trim only (no frame needed).

9. Flangeless (F) trims require CA3RFT mud-in accessory for installation.

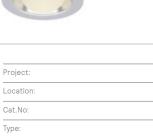
10. Requires IRT9015 IR remote & Interact Pro App for commissioning.











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

> βA eract Ready System Bridge cessory (refer to Philips System dge Accessory specification sheet

options and ordering details)¹⁰

example: C3L07930NZ10US

eld installable Bodine BSL6 / battery pack with self-test/ If-diagnostic for use with new onstruction frames, 120-277V

d-in ring for use flangeless installs dered with a flangeless trim)

der & install separately)



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 is 1.25" (32mm)

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.

Dimming

All configurations are FCC Class A unless otherwise specified.

- Advance 0-10V 1% (Z10)
- Lutron PEQ0 Hi-lume Premier 0.1% EcoSystem
- Electronic low voltage (ELV) Remodel and AirSeal IC Shallow are FCC Class B
- Dim to Warm (D2W) option changes CCT from 3000K to 1800K gradually as it dims

Optical systems

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

Construction: Precision spun high grade aluminum reflectors with options for anodized or painted finishes.

Comfort throughout the space:

True 50° physical cutoff.

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.
- Predicted 70% lumen maintenance to 57,000 hrs.
- Max operating ambient temperature of 30°C.
- 347V light engines are 0-10v dimming only and include dedicated 347V driver for use with universal 120/277/347V (U) frames. For 347V and non-0-10v dimming, order (U) light engine and 347V (3) frame (includes step down transformer).

Emergency

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

- For remote ceiling mounted test switch, order standard trim (ex: C3RLWCC).
- 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.

Options and accessories

Field Installed Emergency: Refer to Calculite-LyteProfile-EasyLyte Emergency Battery Pack specification sheet for more details.

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.

CAEM6TSCP: Ceiling cover plate for remote mounted EM6 test switch. $\frac{1}{2}$ " (25mm) hole, 4%" (109mm) x 23%" (69mm) rectangular. Includes two mounting screws.

Labels and listings

- cULus listed for wet locations
- ENERGY STAR[®] 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.

Round wall wash

This meticulously engineered downlight is pre-adjusted to 22.5° out of the box, saving installation time. It can be vertically adjusted to 45° with three quick turns of a screwdriver and locked into place.

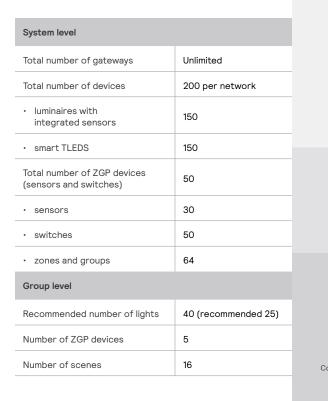
0-10V electric	al table	S			ELV electrical tables				Lutron electrical tables						
Light engine	Input volts		Drive current	Input power	Light engine	Input volts		Drive current	Input power	Light engine	Input volts	Input current	Drive current	Input power	
021.05.71011/2	120 V	0.06 A	150 mA	7.0 W	021.05 51	120 V	0.05 A	150 mA	5.4 W	021.05.111	120 V	0.06 A	150 mA	6.2 W	
C3L05_Z10U/3	277 V	0.02 A		7.0 W	C3L05_E1	277 V	0.02 A		5.4 W	C3L05_LU	277 V	0.02 A		0.2 W	
021.07.71011/2	120 V	0.08 A	220 mA	9.5 W	021.07.51	120 V 0.08	0.08 A	000	8.7 W	021.07.111	120 V	0.08 A	220 mA	8.8 W	
C3L07_Z10U/3	277 V	0.03 A	220 ma	9.5 W	C3L07_E1	277 V	0.03 A	220 mA		C3L07_LU	277 V	0.03 A		0.0 W	
02110 71011/2	120 V	0.12 A	330 mA	13.6 W	C3L10_E1	120 V	0.11 A		0 mA 12 2 W	0 mA 13.2 W	C3L10_LU	120 V	0.12 A	330 mA	12 O.W
C3L10_Z10U/3	277 V	0.05 A	330 MA	13.0 W	CSLIU_EI	277 V	0.05 A	330 MA	13.2 W	C3L10_L0	277 V	0.05 A	550 MA	10.0 W	
021 15 71011/2	120 V	0.16 A	450 mA	18.6 W	C3L15_E1	120 V	0.15 A	450 mA	150 mA 17.4 W	02115	120 V	0.15 A	450 mA	17.7 W	
C3L15_Z10U/3	277 V	0.07 A	450 MA	18.0 W	C3LI5_EI	277 V	0.06 A	450 MA	17.4 VV	17.4 W C3L15_LU	277 V	0.06 A	450 MA		
02110 71011/2	120 V	0.17 A	500 mA	20.4.W	C3L18_E1	120 V	0.17 A	500 mA	10.7.W	021.10	120 V	0.17 A	500 mA	10.0 W	
C3L18_Z10U/3	277 V	0.07 A	Am 006	20.4 W	C3LI8_EI	277 V	0.07 A	300 mA	19.7 W	C3L18_LU	277 V	0.07 A		19.8 W	
C3L07_Z10US/3	120 V	0.08 A	220 4	9.4 W	C3_A05_E1S	120 V	0.08 A	220	8.7 W						
C3L07_Z10UR	277 V	0.03 A	220 mA	9.4 W	C3_A05_E1R	277 V	0.03 A	220 mA	0.7 W						
C3L10_Z10US/3	120 V	0.12 A	330 mA	14.1 W	C3_A10_E1R	120 V	0.11 A	330 mA	12.2 W						
C3L10_Z10UR	277 V	0.05 A		14.1 VV	C3_A10_E1S	277 V	0.05 A		13.2 W						

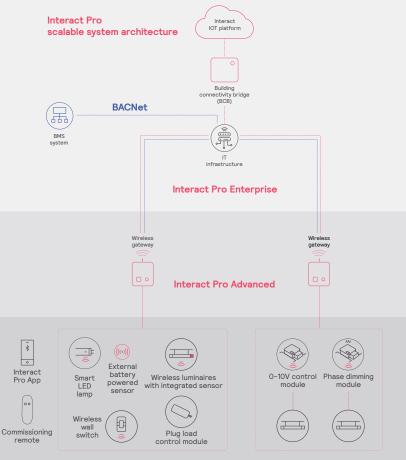
Round wall wash

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





Round wall wash

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.

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/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 (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.
- 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.

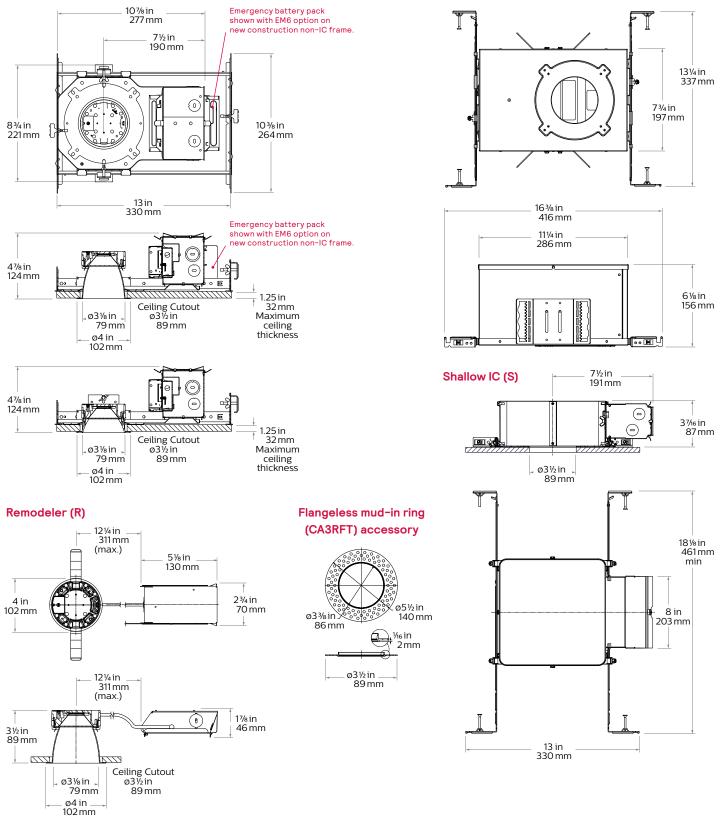
Interact Office Wired (PoE), Static White:

• 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 wall wash

New construction (N)



Standard IC (A) and Chicago plenum (LC)

Round wall wash

Polished Reflectors Shown as round reflectors but represent the finish of Calculite square 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.



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.

Textured Reflectors Shown as square reflectors but represent the finish of Calculite round reflectors.





Textured white (WT): Matte painted finish.



Textured black (BT): Matte painted finish.

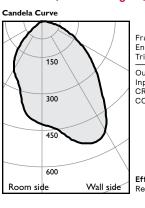




Mud-in ring (FT): Low profile, machined aluminum mud-in ring provides a raised rib to plaster up to and a 3/16" flange thickness. The ring is attached to the ceiling material as opposed to the frame-in kit to avoid conduction of heat and vibration which can cause yellowing or cracking of the plaster.

Round wall wash

Wall wash, 1000lm engine, 56.0 lm/W



	Frame: 3RN	
	Engine: C3L1093 Trim: C3RLWCC	5NZ10U
/	Output lumens: Input watts: CRI: CCT ¹ :	777 lms 14 W 90 min 3500K
	Efficacy: 56.0 Report ² : 17640	

	Multiple unit data Footcandles on wall					•	unit dat dles on v			
		2' from wall						2	from wa	all
		Б	3' on ctr	. –				Ъ	4' on ctr	
	1	23	19	23	-		1	19	11	
ee.	2	33	30	33		eet	2	28	28	
L L	3	28	26	28		L L	3	23	18	
į	4	20	19	20		jĝ	4	16	14	
ili.	5	14	14	14		ili	5	11	10	
ő	6	10	10	10		ő	6	8	8	
Ъ	7	7	7	7		То	7	6	6	
e fr	8	5	5	5		e fr	8	5	5	
č	9	4	4	4		č	9	4	4	
Distance from ceiling in feet	10	3	3	3		Distance from ceiling in feet	10	3	3	
Dis	12	2	2	2		Dis	12	2	2	
	14	2	2	2			14	2	2	

2' from wall

Multiple unit data

	Footcandles on wall						
			2' from wall				
2			6	5' on ctr			
19		1	21	7	21		
28	eei	2	28	12	28		
23	Distance from ceiling in feet	2 3	21	12	21		
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8	ő	6	7	6	7		
6	Б	6 7	5	5	5		
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4	2Ce	9	3	3	3		
3	tai	10	3	3	3		
2 2		12	3 2 2	2	3 2 2		
2		14	2	2	2		

Adjustment factors

Finish	ССТ	Lumens
$\begin{array}{l} CL &= 102\% \\ CC &= 100\% \\ CD &= 95\% \\ WH &= 95\% \\ WT &= 95\% \\ CZ &= 90\% \\ D &= 90\% \\ BK &= 85\% \\ BZ &= 80\% \\ BK &= 80\% \\ BT &= 75\% \end{array}$	90CRI 4000K = 104% 90CRI 3500K = 100% 90CRI 3000K = 96% 90CRI 2700K = 90%	1500Im = 130% 1000Im = 100% 750Im = 70% 500Im = 50%

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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