LIGHTOLIER

Downlighting

Calculite LED 3"

C3SWW Square wall wash



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

Calculite LED 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)

Follow the ordering guidelines below. Each step is a separate order line.

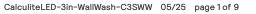
Step 1	Frame: Ordered & shipped separately.					
	Frame Example: 3SN 3S					
Step 2	Engine & Trim: Ordered & shipped as a single product.					
	Engine Example: C3L07930SZ10US-C3SLWCC C3L -					
Step 3 (optional)	Accessories: Ordered & shipped separately.					

Frame	Mee Note: For remodeler installations, order light engine and trim only (no frame needed). exa				
Series	Installation	Voltage/Options			
3 S					
3S Uniframe 3" square frame	N New Construction Non-IC	- Universal 120/277/347V	LC EM6	Chicago plenum Emergency, 6W Self-Test/Self-Diagnostic ¹	
	A AirSeal IC (1000lm max)	- Standard Universal 120/277/347V	s	Shallow Universal 120/277/347V ²	

Engine

Engine example: C3L07930SZ10US															
Series C3L	Lumens	CRI/CCT	Shape	Dimming	Options	Voltage	Plenum								
C3L Calculite 3" light engine	05 500lm 07 750lm	927 90 CRI / 2700 K 930 90 CRI / 3000 K	S Square	Z10 0-10 V 1%	None D2O Dim to Off	U 120V/277V 3 347V (Z10 only)	– Standard								
	15 1500 lm ⁵ 940 9			L01 Lutron PEQ0 EcoSy L1 Lutron LDE1 EcoSys		U 120V/277V									
	10 1000 lm	9D2W 90CRI/ 3000-1800K Specify with new construction (N) frame and 0-10v (Z10) dimming only	3000-1800K	3000-1800K	3000-1800K	3000-1800K	3000-1800K	3000-1800K	3000-1800K		D DALI 0.1%	None LIN Linear	U 120V/277V		
			frame and 0-10v	SOL 0-10V 0.1% DMX Digital Multiplex w/ RDM 0.1%	None LIN Linear SQR Square	U 120V/277V									
				E Forward/Reverse P	hase	1 120V									
												RA Integral Interact Pr	o RF sensor⁵	U 120V/277V	
	10 1000 lm 930 90 CRI/3000 935 90 CRI/3500		S Square	Z10 0-10V 1%	None	U 120V/277V	R Remodeler ⁶								
		935 90CRI/3500K	E Forward/Reverse Ph	ase	1 120V	S Shallow ²									





℅



Square wall wash

example: C3SLWDDFS								
Series C3S	Style LW	Reflector	Flange	Туре				
C3S Calculite 3" square trim		BK Black (anodized) CC Comfort clear CL Specular clear CD Comfort clear diffuse	 White (matte) P Matching reflector F Flangeless⁷ 	 Standard depth with 50° cutoff 				
	limit and should not be used in Airseal configurations.	WH White (matte)	 White (matte) F Flangeless⁷ 					
	conngurations.	WT Textured white (painted)	 P Matching reflector F Flangeless⁷ 					
		BT Textured black (painted) BZ Bronze (painted) D Aluminum diffuse (painted)	 White (matte) Matching reflector F Flangeless⁷ 					

Accessories (order & install separately)

SBA	Interact Ready System Bridge (compatible with 0-10V, see SBA spec sheet) Requires IRT9015 IR remote & Interact Pro App for commissioning.
CAEM6	Field installable Bodine BSL6 6W battery pack with self-test/self-diagnostic for use with new construction frames, 120-277V
CA3SFT	Mud-in ring for square flangeless installs (ordered with a flangeless trim)
CAEM6TSCP	Must be ordered with EM6 frame for remote test switch (see details below)
T347-75VA	347:120V step-down transformer for non-IC (N) frame only (see page 2 for details). Not compatible with emergency options.

0-10V electrical tables

Light engine	Input volts	Input current	Drive current	Input power
C3L05_Z10U/3	120 V	0.06 A	150 mA	7.0 W
C3L05_2100/3	277 V	0.02 A	150 MA	7.0 W
021.07.71011/2	120 V	0.08 A	220 mA	9.5 W
C3L07_Z10U/3	277 V	0.03 A	220 MA	9.5 W
C3L10 Z10U/3	120 V	0.12 A	330 mA	13.6 W
C3LI0_2100/3	277 V	0.05 A		
02115 71011/2	120 V	0.16 A	450 mA	18.6 W
C3L15_Z10U/3	277 V	0.07 A		
02119 71011/2	120 V	0.17 A	·	20.4 W
C3L18_Z10U/3	277 V	0.07 A	500 mA	
C3L07_Z10US/3	120 V	0.08 A	220 4	0.4.W
C3L07_Z10UR	277 V	0.03 A	220 mA	9.4 W
C3L10_Z10US/3	120 V	0.12 A	220 mA	14.1 W
C3L10_Z10UR	277 V	0.05 A	330 mA	14.1 W

ELV electrical tables

Light engine	Input volts	Input current	Drive current	Input power
C3L05 E1	120 V	0.05 A	150 mA	5.4 W
C3L05_E1	277 V	0.02 A	Amuer	5.4 W
C2L 07 E1	120 V	0.08 A	220 mA	8.7 W
C3L07_E1	277 V	0.03 A	220 MA	8.7 W
C3L10_E1	120 V	0.11 A	330 mA	13.2 W
C3LIO_EI	277 V	0.05 A	330 MA	13.2 W
C3L15 E1	120 V	0.15 A	450 mA	17.4 W
C3LI5_EI	277 V	0.06 A	450 MA	
02110 51	120 V	0.17 A	E00 mA	10.7.W
C3L18_E1	277 V	0.07 A	500 mA	19.7 W
C3_A05_E1S	120 V	0.08 A	220 4	0.7.14
C3_A05_E1R	277 V	0.03 A	220 mA	8.7 W
C3_A10_E1R	120 V	0.11 A	330 mA	13.2 W
C3_A10_E1S	277 V	0.05 A	330 MA	13.2 W

Lutron electrical tables

Light engine	Input volts	Input current	Drive current	Input power
C3L05 LU	120 V	0.06 A	150 mA	6.2 W
C3L05_L0	277 V	0.02 A	Amuer	6.2 W
C3L07 LU	120 V	0.08 A	220 mA	8.8 W
C3LU/_LU	277 V	0.03 A	220 MA	0.0 W
C3L10 LU	120 V	0.12 A	330 mA	13.0 W
C3LI0_L0	277 V	0.05 A	330 MA	
021.15	120 V	0.15 A	450	17.7 W
C3L15_LU	277 V	0.06 A	450 mA	17.7 W
021.10	120 V	0.17 A	E00 mA	10.0.14
C3L18_LU	277 V	0.07 A	500 mA	19.8 W

Footnotes for page 1

- 1. Emergency (EM6) frame is compatible with reflector mounted test switch
- when trim is ordered with IEM6 option code. Not compatible with 347V.
- Must order shallow IC frame (S), shallow engine (S) for complete shallow assembly.
 The 1500lm (15) and 1800lm (18) options are not available with standard AirSeal IC frame (3RA-).
- 4. Not available with 500lm (05) option.
- 5. Linear driver profile. See page 7 for details.
- Specify only with non-IC (N) frame, not for use with LC or EM6 options.
 For remodeler installations, order light engine and trim only (no frame needed).
 Flangeless (F) trims require CA3SFT mud-in accessory for installation.

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 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), logarithmic curve is standard, specify D2O for factory-set dim-to-off function, consult factory for linear dimming curve.
 EldoLED SOLODrive (SOL) 0-10V 0.1%
- Lutron PEQ0 (L01) Hi-Lume Premier EcoSystem 0.1%
- Lutron LDE1 (L1) EcoSystem 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%
- Dim to Warm (D2W) option changes CCT from 3000 - 1800K gradually as it dims, dimming agnostic

Dimming options:

- The following are factory-set for the SOL, D, and DMX driver options (ex. DMXLIN):
- · SOL/D/DMX: Logarithmic (-) standard
- SOL/D/DMX: Linear (LIN)
- SOL/DMX: Square (SQR)

Optical systems

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

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

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

Comfort throughout the space:

True 50° physical cutoff.

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: C3SLWCC). 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.

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 Z10 dimming only and include dedicated 347V driver. For 347V non-Z10 dimming, order T347-75VA field-installed step-down transformer accessory.

Remodeler Engine (R)

- No frame is required.
- Remodeler engine is suited for new construction, remodel, and retrofit applications.
- · All wiring is done on the integral j-box to the engine.
- LCEM6 6W battery pack accessory is available for field installation.

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.

Flangeless mud-in ring: Use CA3SFT

for use with flangless plaster installations.

T347-75VA Field installable: 347:120V 75VA step-down transformer, attaches to knock out on frame junction box, for use with non-IC (N) frame only. Not for use with emergency options.

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.

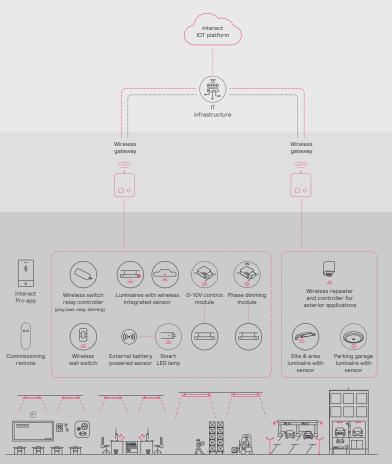
Square wall wash

interact			
	Standalone	Gatew Option 1	vay Connected Option 2
Dimming, grouping, and zoning	Standalone		
Bluetooth and ZigBee enabled	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	×
Motion sensing and daylight harvesting			×
Integration with 0-10V and phase dimming fixtures	V	✓	✓
Code compliance		✓	✓
Granular dimming and dwell time		✓	
Correlated color temperature (CCT) tuning by switch New			
Support for sensor-based Tunable White luminaires New			
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				
Zones + groups	64				
Total number of ZGP devices (sensors and switches)	50				
• Sensors	30				
• Switches	50				
Group level					
Recommended number of lights	40 (maximum 150)				
Number of ZGP devices	5				
Number of scenes	16				



Square wall wash

Wireless controls options

Interact

- SWZCS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the standalone mode (similar to SpaceWise) when configured without a gateway or in a cloud connected mode if a compatible gateway is used.
- Interact 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 on-site to identify and group devices together.

Compatible with:

- SWS200 & UID8465 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
- LCN3110: battery powered IP65 presence sensor, OCC sensor IA CM IP65W
- LCN3120: battery powered IP65 presence & daylight sensor, OCC-DL sensor IA CM IP65 WH
- For more information on Interact visit: interact-lighting.com/interactproscalablesystem

Radio only sensor (RA or RADIO)

- Integral RA or 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.
- Interact 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, identify and group devices together onsite.
- Compatible with SWS200 and UID8465 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).
- For more information on Interact visit: interact-lighting.com/interactproscalablesystem

Sensor bundle (IAOSB or SB)

- 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 SENSORIA 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.
- IAOSB or SB option in addition to occupancy and daylights 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: interact-lighting.com/interactproscalablesystem

Emergency Options (ER100)

- 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.

Wired controls options

Interact (PoE):

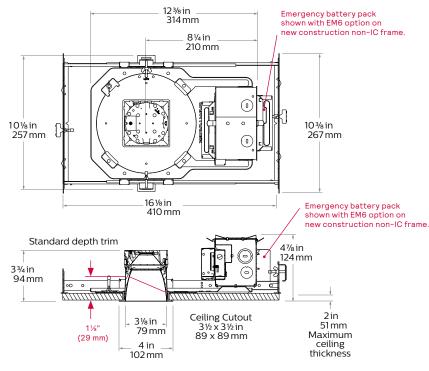
- PoE based IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Test switch and indicator light mounted on side of chassis on one end.
- Supports advanced IoT Apps on Personal Control, Space Management, wayfinding, room/desk reservation and offers open APIs for light control and data exchange.
- 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.
- PoE lighting controller is accessible from below.
- 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: interact-lighting.com/office or www.usa.lighting.philips.com/systems/systemareas/offices

Interact supported sensor option codes across Genlyte product lines

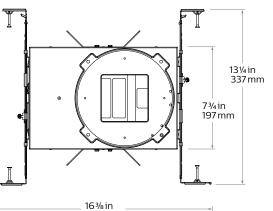
	Evokit	Day-Brite	Ledalite	Lightolier
ZigBee + Bluetooth + Sensing	SWZCS	SWZCS	CS	SBA accessory (external)
ZigBee + Bluetooth	RADIO	RADIO	RA	RA
ZigBee + Bluetooth + Sensing + Environmental data	IAOSB	IAOSB	SB	SB
ZigBee + Highbay + Sensing	-	SWZCSH	-	-

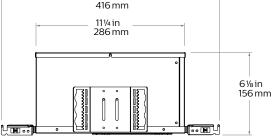
Square wall wash

New construction (N)



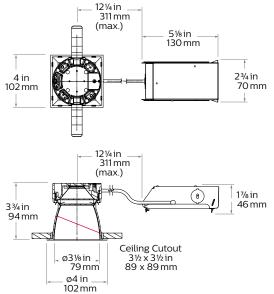
Standard IC (A) and Chicago plenum (LC)

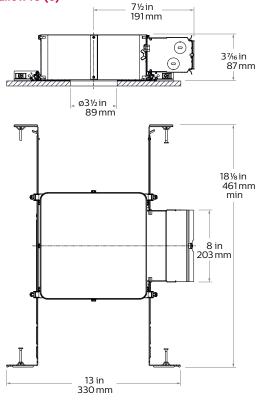




Shallow IC (S)

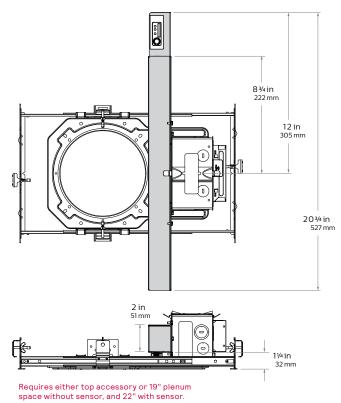




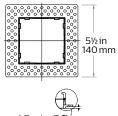


Square wall wash

Linear driver (RA)



Flangeless mud-in ring (CA3SFT) accessory





Square 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).

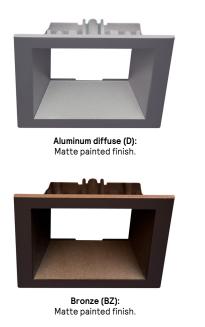


White (WH): (matte) Brightest illuminated aperture and provides the smoothest transition to most ceilings when off (white is only available with a white flange).



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.



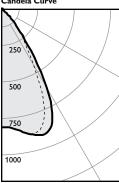
Textured black (BT): Matte painted finish.



Square wall wash

Wall wash, 1000lm engine, 56.0 lm/W





]	Frame: 3SN Engine: C3L10935SZ10U Trim: C3SLWCC					
	Output lui Input wati CRI: CCT ¹ :		664 lms 13.6 W 90 min 3500K			
	Efficacy: Report ² :					

Multiple unit data Footcandles on wall				_	Multiple unit data Footcandles on wall						
		2' from wall						2' from wall			
		Б	3' on ctr					5	4' on ctr		
 	1	19	16	19	-		1	16	10	16	
ee,	2	26	24	26		eet	2	22	15	22	
ц Ц	3	23	21	23		ц Ц	3	19	14	19	
jg	4	17	16	17		jĝ	4	14	12	14	
ilic	5	11	12	11		ilic	5	9	9	9	
ő	6	8	8	8		ő	6	6	7	6	
Eo	7	6	6	6		Б	7	5	5	5	
Ę	8	4	4	4		fr	8	4	4	4	
Š	9	3	3	3		2Ce	9	3	3	3	
tar	10	3	3	3		tar	10	2	2	2	
Distance from ceiling in feet	12	2	2	2		Distance from ceiling in feet	12	2	2	2	
_	14	2	2	2			14	2	2	2	

Adjustment factors					
Finish	ССТ	Lumens			
$\begin{array}{l} WT &= 110\% \\ WH &= 109\% \\ CL &= 109\% \\ CD &= 109\% \\ BZ &= 91\% \\ CC &= 100\% \\ D &= 100\% \\ BZ &= 91\% \\ BT &= 89\% \\ BK &= 89\% \end{array}$	90CRI 4000K = 104% 90CRI 3500K = 100% 90CRI 3000K = 96% 90CRI 2700K = 90%	15001m =130% 10001m =100% 7501m = 70% 5001m = 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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Signify North America Corp. 400 Crossing Blvd, Suite 600 Bridgewater, NJ 08807 Telephone: 800-555-0050

Signify Canada Ltd. 281 Hillmount Road, Markham, ON, Canada L6C 2S3 Telephone: 800-668-9008

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Multiple unit data Footcandles on wall

Distance from ceiling in feet 71 01 6 8 2 9 5 7 5 -

2

2' from wall

5' on ctr.

2