

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.

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

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

Frame

example: 3RN

Series	Installation	Voltage / Options
3R		
3R Uniframe 3" round frame	N New construction	— Universal (120V/277V) EM Emergency (see pg 2 for details & limitations) ¹ IP Interact Pro ready (for 0-10V engine only) ²
	A AirSeal IC (1000lm max)	— Standard universal (120V/277V) ³ LC Chicago plenum 3 347V (not compatible with ELV dimming) 3IP 347V with Interact Pro (for 0-10V engine only) ²
		S Shallow universal (120V/277V) ³
Note: For remodeler installations, order light engine and trim only (no frame needed)		

Engine

example: C3L10930NZ10US

Series	Lumens ⁴	CRI	CCT	Beam	Dimming	Voltage	Plenum
C3L		9					
C3L Calculite 3" light engine	05 500lm	9 90CRI	27 2700K	N Narrow (33°)	Z10 0-10 V 1% L Lutron PEQ0 (Dim to 0.1%)	U Universal (120V/277V/347V)	- Standard
	07 750lm		30 3000K		E ELV	1 120V	
	10 1000lm		35 3500K				
	15 1500lm		40 4000K				
	10 1000lm	9 90CRI	D2W 3000K-1800K ⁵				
	07 750lm	9 90CRI	27 2700K 30 3000K 35 3500K	N Narrow (33°)	Z10 0-10 V 1%	U Universal (120V/277V/347V)	R Remodeler ⁶ S Shallow ³
				E ELV	1 120V		

Trim

example: C3RLWBTF

Series	Style	Reflector	Flange	Type
C3R	LW			
C3R Calculite 3" round trim	LW Lensed wall wash (for remodeler & new construction)	BK Black (anodized)	- White (matte)	- Standard depth with 50° cutoff
		CL Specular clear	P Matching reflector	
		CC Comfort clear		
		CD Comfort clear diffuse		
		CZ Champagne bronze (anodized)		
		WH White (matte)	- White (matte)	F Flangeless ⁷
		WT Textured white (painted)	P Matching reflector	F Flangeless ⁷
		BT Textured black (painted)		
		BZ Bronze (painted)		
		D Aluminum diffuse (painted)		

Accessories

CA3RFT	Mud-in ring for use in round flangeless trim installations (ordered with a flangeless trim)
SWZDT	SpaceWise wireless controller with dwell time functionality (compatible with all 0-10V options, see SWZDT spec sheet)
SRAINT	InterAct Office accessory (for use with Lightolier UniFrame 0-10V products)

- Emergency (EM) frame includes emergency battery with ceiling mounted test switch (no reflector mountable test switch). Requires above ceiling access. Ceiling mount test switch only (see page 2 for details and limitations).
- InterAct Pro requires above ceiling access.
- Must order shallow IC frame, shallow engine for complete shallow assembly. Standard depth trims are compatible with shallow frame.
- Lensed wall wash (LW) trims have a 1500lm (15) engine limit in Non-IC (N) configuration and 750lm limit in IC (A) configurations.
- Dim to Warm (D2W) engines are for Non-IC (N) frames only.
- For remodeler installations, order light engine and trim only (no frame needed).
- Flangeless (F) trims require CA3SFT mud-in accessory for installation.



interact
ready.

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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

- Advance 0-10V 1% dimming
- Lutron PEQO Hi-lume Premier 0.1% EcoSystem

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.

Interact Pro (IAP)

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

Options and accessories

Flangeless mud-in ring: Use CA3RFT for use with flangeless plaster installations.

Labels and listings

- cULus listed for wet locations
- 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.

0-10V electrical tables

Light engine	Input volts	Input current	Drive current	Input power
C3L05_Z10U	120 V	0.06 A	150 mA	7.0 W
	277 V	0.02 A		
C3L07_Z10U	120 V	0.08 A	220 mA	9.5 W
	277 V	0.03 A		
C3L10_Z10U	120 V	0.12 A	330 mA	13.6 W
	277 V	0.05 A		
C3L15_Z10U	120 V	0.16 A	450 mA	18.6 W
	277 V	0.07 A		
C3L18_Z10U	120 V	0.17 A	500 mA	20.4 W
	277 V	0.07 A		
C3L07_Z10US C3L07_Z10UR	120 V	0.08 A	220 mA	9.4 W
	277 V	0.03 A		
C3L10_Z10UR C3L10_Z10US	120 V	0.12 A	330 mA	14.1 W
	277 V	0.05 A		

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
	277 V	0.02 A		
C3L07_E1	120 V	0.08 A	220 mA	8.7 W
	277 V	0.03 A		
C3L10_E1	120 V	0.11 A	330 mA	13.2 W
	277 V	0.05 A		
C3L15_E1	120 V	0.15 A	450 mA	17.4 W
	277 V	0.06 A		
C3L18_E1	120 V	0.17 A	500 mA	19.7 W
	277 V	0.07 A		
C3_A05_E1S C3_A05_E1R	120 V	0.08 A	220 mA	8.7 W
	277 V	0.03 A		
C3_A10_E1R C3_A10_E1S	120 V	0.11 A	330 mA	13.2 W
	277 V	0.05 A		

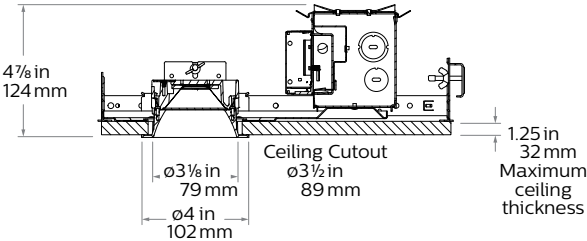
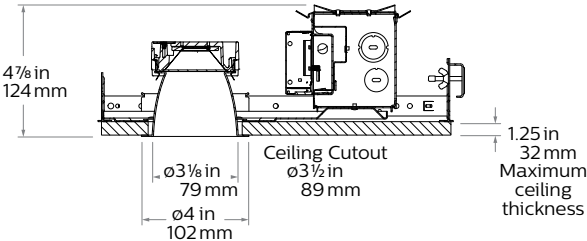
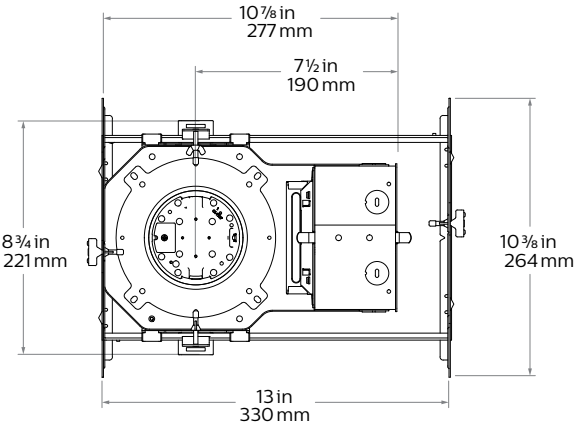
Lutron electrical tables

Light engine	Input volts	Input current	Drive current	Input power
C3L05_LU	120 V	0.06 A	150 mA	6.2 W
	277 V	0.02 A		
C3L07_LU	120 V	0.08 A	220 mA	8.8 W
	277 V	0.03 A		
C3L10_LU	120 V	0.12 A	330 mA	13.0 W
	277 V	0.05 A		
C3L15_LU	120 V	0.15 A	450 mA	17.7 W
	277 V	0.06 A		
C3L18_LU	120 V	0.17 A	500 mA	19.8 W
	277 V	0.07 A		

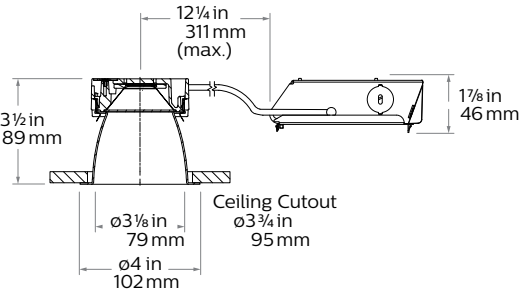
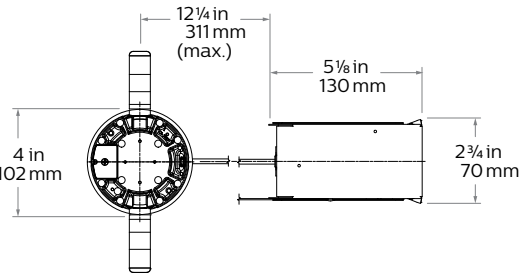
C3RWW Calculite 3"

Round wall wash

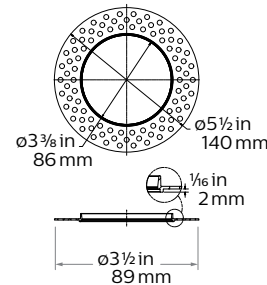
New construction (N)



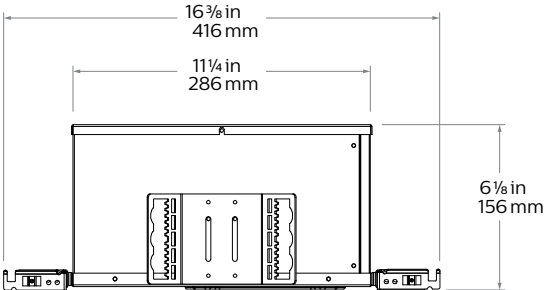
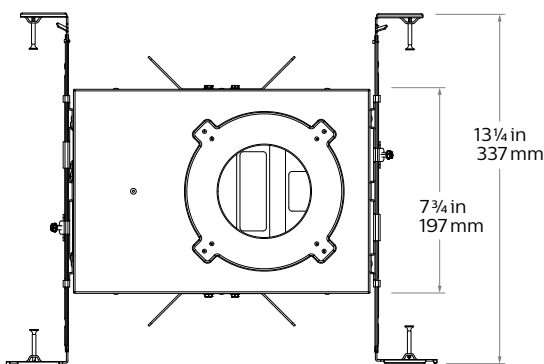
Remodeler (R)



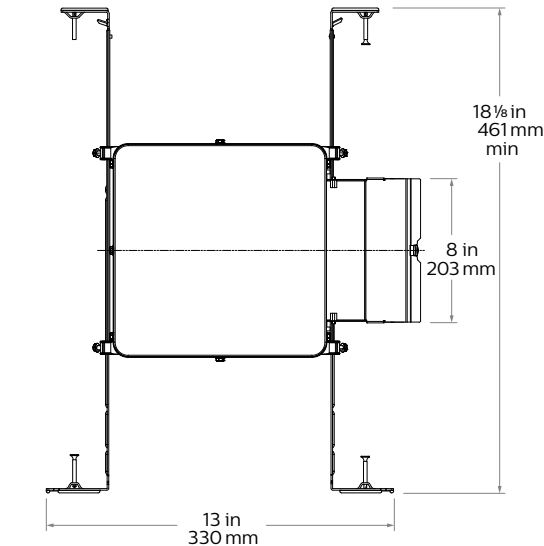
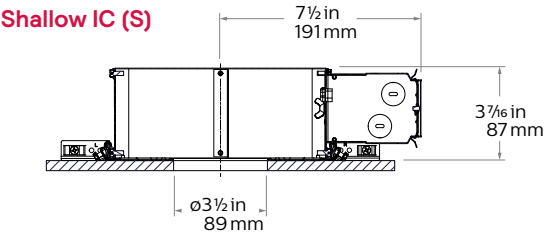
Flangeless mud-in ring



Standard IC (A) and Chicago plenum (LC)



Shallow IC (S)



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Reflector



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



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



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.



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



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



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

Flange



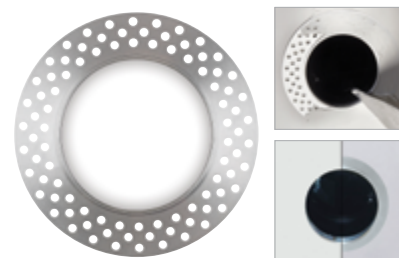
White (-): (matte) Provides the smoothest transition to ceilings when off.



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



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



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

C3RWW Calculite 3"

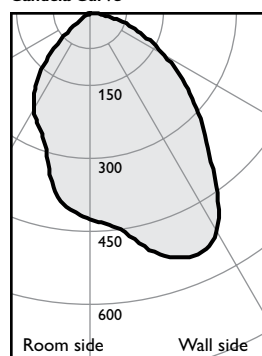
Round wall wash

Adjustment factors

Finish	CCT	Lumens
CL = 102%	90CRI 4000K = 104%	1500lm = 130%
CC = 100%	90CRI 3500K = 100%	1000lm = 100%
CD = 95%	90CRI 3000K = 96%	750lm = 70%
WH = 95%	90CRI 2700K = 90%	500lm = 50%
WT = 95%		
CZ = 90%		
D = 90%		
BK = 85%		
BZ = 80%		
BK = 80%		
BT = 75%		

Wall wash, 1000lm engine, 56.0 lm/W

Candela Curve



Frame: **3RN**
Engine: **C3L10935NZ10U**
Trim: **C3RLWCC**

Output lumens: 777 lms
Input watts: 14 W
CRI: 90 min
CCT: 3500K

Efficacy: **56.0 lm/w**
Report#: 1764GFR

Multiple unit data

Footcandles on wall

	2' from wall		
	3' on ctr.		
Distance from ceiling in feet	1	2	3
1	23	19	23
2	33	30	33
3	28	26	28
4	20	19	20
5	14	14	14
6	10	10	10
7	7	7	7
8	5	5	5
9	4	4	4
10	3	3	3
12	2	2	2
14	2	2	2

Multiple unit data

Footcandles on wall

	2' from wall		
	4' on ctr.		
Distance from ceiling in feet	1	2	3
1	19	11	19
2	28	28	28
3	23	18	23
4	16	14	16
5	11	10	11
6	8	8	8
7	6	6	6
8	5	5	5
9	4	4	4
10	3	3	3
12	2	2	2
14	2	2	2

Multiple unit data

Footcandles on wall

	2' from wall		
	5' on ctr.		
Distance from ceiling in feet	1	2	3
1	21	7	21
2	28	12	28
3	21	12	21
4	14	10	14
5	9	8	9
6	7	6	7
7	5	5	5
8	4	4	4
9	3	3	3
10	3	3	3
12	2	2	2
14	2	2	2

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