

PHILIPS LIGHTOLIER

Downlighting

Calculite LED gen 3 4" square tunable white

1000 & 1200lm



Project: _____

Location: _____

Cat.No: _____

Type: _____

Lamps: _____ Qty: _____

Notes: _____

Calculite LED 4" generation 3 features industry leading visual comfort, excellent uniform illumination over time, and patented installation flexibility.

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

Frame

example: C4SN

Series	Aperture	Installation	Voltage / Options
C4	S		
C4 Calculite LED 4" aperture	S Square	N New Construction R Remodeler	— Universal 120 V/277V 3 347V EM Emergency ^{2,3} LC Chicago Plenum ²
		A Airseal IC ¹	— Universal 120 V/277V

Engine

example: C4L10865MDUTW

Series	Lumens	CRI	CCT	Beam	Dimming	Voltage	Options
C4L							TW
C4L Calculite LED 4" aperture	10 1000lm 12 1200lm ¹	8 80 CRI	65 6500- 2700K	M Medium (56°) ⁴ W Wide (76°)	D Dali	U Universal 120 V/277V/347V	TW Tunable White

Trim

example: C4SDLNMCCP

Series	Aperture	Style	Beam	Finish	Flange
C4	S				
C4 Calculite LED 4" aperture	S Square	DL Downlight	NM Narrow & Medium W Wide	CL Specular clear CC Comfort clear CD Comfort clear diffuse	— White (matte) P Polished F Flangeless
		LW Lensed Wall Wash ⁴	— blank	WH White (matte)	— White (matte) F Flangeless

Beam options

	Med engine	Wide engine
4" reflector	52° (0.8 s.c.)	72° (1.1 s.c.)

Mixing chambers

	Med engine	Wide engine
4" cone	0.8 s.c. (52°)	1.1 s.c. (72°)

Accessories (ordered with a flangeless trim)

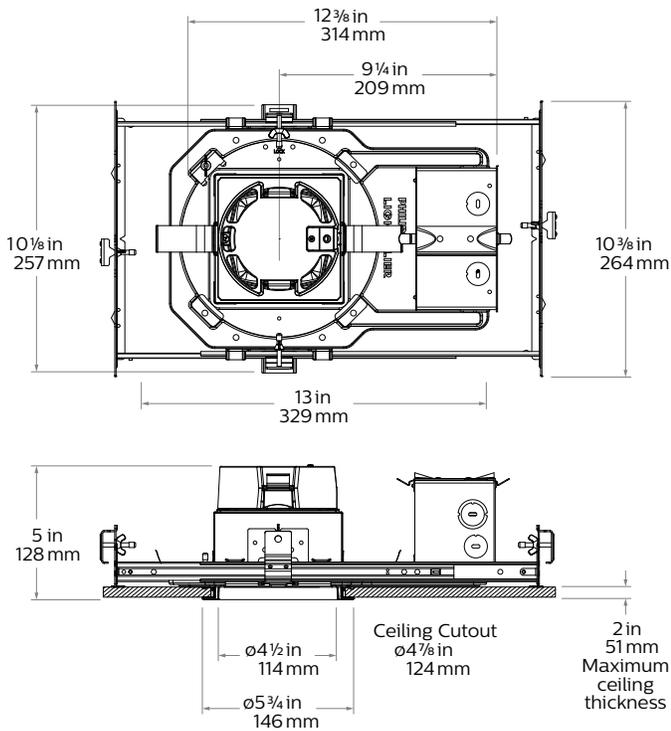
CA4SFT Mud-in ring for use with flangeless installations.

- The 1200lm (12) package is only compatible with the Airseal (C4RA or C4SA) frame.
- Emergency (EM) and Chicago Plenum (LC) options are only available with New construction (N) installations.
- Emergency (EM) frame comes with emergency battery pack and ceiling mountable test switch. Reflector mounted test switch requires above ceiling access. For reflector mounted test switch, order emergency frame and add "EM" suffix to reflector (example: C4SDLCCEM).
- Medium (M) beam is ideal for Lensed Wall Wash (LW) applications.

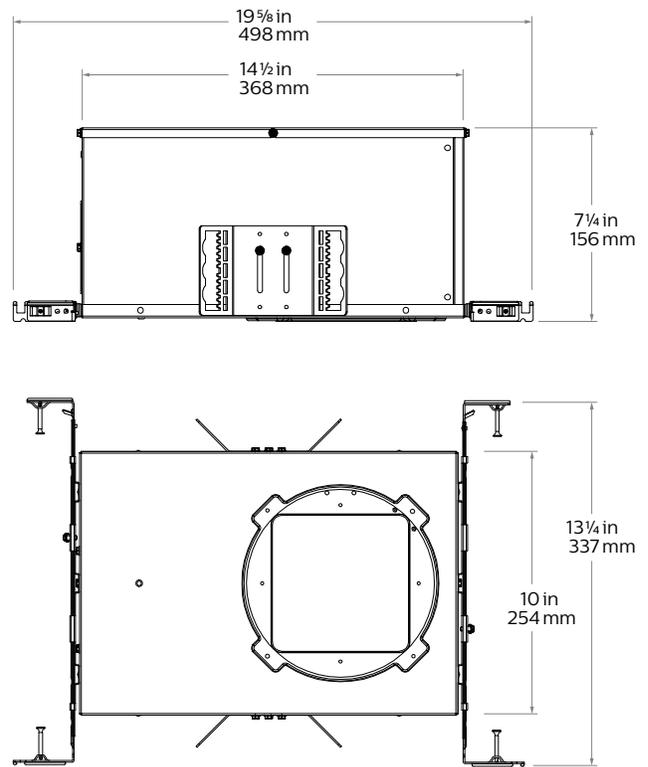
C4STW Calculite LED generation 3

4" square tunable white

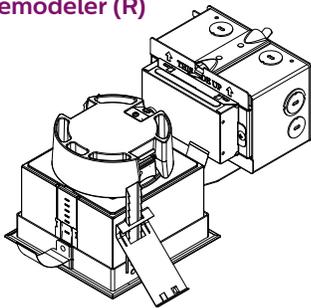
New Construction (N)



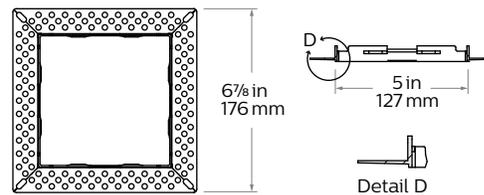
Chicago Plenum (LC)



Remodeler (R)



Flangeless mud-in ring (CA4SFT) accessory



Consult factory for wood installation instructions.

C4STW Calculite LED generation 3

4" square tunable white

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".

AirSeal

Black painted steel housing for dry or plaster ceilings. Pre-installed telescoping mounting bars from 13" to 24".

Patented install Mounting frame

With no driver attached, this versatile frame is independent of driver accommodating a wide range of lumen packages, driver types and CCTs, including 120V and 277V inputs.

Close-cut aperture design eliminates the possibility of undesired gap between ceiling opening and reflector flange.

Separate wiring compartment for wiring frame to building allows inspection prior to light engine installation.

Simple plug-and-play connection between the frame and light engine from below the ceiling eliminates the need for wiring between frame and LED driver, and also saves time during installation and future replacements/upgrades. Plug-and-play receptacle accommodates technology upgrade of light engines and replacements for the life of the building.

Optical systems

Comfort throughout the space:

Patented optical system combines primary and secondary optics to provide a true 50° physical cutoff and 45° reflected cutoff virtually eliminating the view of the light source and bright spots in the reflector. A new reflector curve reduces reflector brightness by up to 50% compared to existing products, allowing for the use of higher lumen packages in smaller apertures without creating bright spots in the ceiling.

Quality of light: 2 SDCM ensures color consistency from fixture to fixture and over the luminaire's long lifetime. Proprietary optical grade silicone lens with patterned surface provides soft, even beam diffusion without hotspots or dark rings.

Light Engine

Quick connect power pack comprised of light source and driver 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.

Drivers

- EldoLED ECOdrive Dali 1% Dimming

Options and Accessories

Flangeless mud-in ring: Use **CA4SFT** for use with flangeless plaster installations.

Labels and Listings

cULus listed for wet locations
IBEW Union made (light engines & reflectors)
RoHS compliant

Warranty

5 year warranty on complete system.

Complete warranty available at: http://images.philips.com/is/content/PhilipsConsumer/PDFDownloads/United%20States/ODL120150930_003-UPD-en_US-Philips-warranty-indoor-PLS-us.pdf

Color information

4" 1000lm	2700K	3000K	3500K	4000K	5000K	6500K
Flux (lms)	909	920	942	951	927	927
Power (W)	10.24	10.24	10.22	10.19	9.94	9.98
Efficacy (lm/W)	88.8	89.8	92.2	93.4	93.3	92.8
CCT	2766	2974	3423	3933	4866	6458
CRI	86	87	88	89	87	83
R9	21	26	33	36	32	13
x	0.4513	0.4335	0.404	0.3797	0.3483	0.3136
y	0.4034	0.394	0.3783	0.3653	0.3483	0.3288
Duv	-0.0019	-0.0036	-0.0053	-0.0052	-0.0029	0.0026

Lifetime (TM-21) data

Lumens	Narrow beam	Medium/Wide beam*
500lm	L90 @ 60,000hrs.	L90 @ 60,000hrs.
1000lm		
1500lm		
2000lm	L90 @ 60,000hrs.	L85 @ 60,000hrs.
2500lm		
3000lm*		

* Lutron 3000lm with Medium/Wide beam is L80 @ 60,000hrs.

