

Calculite White LED square aperture

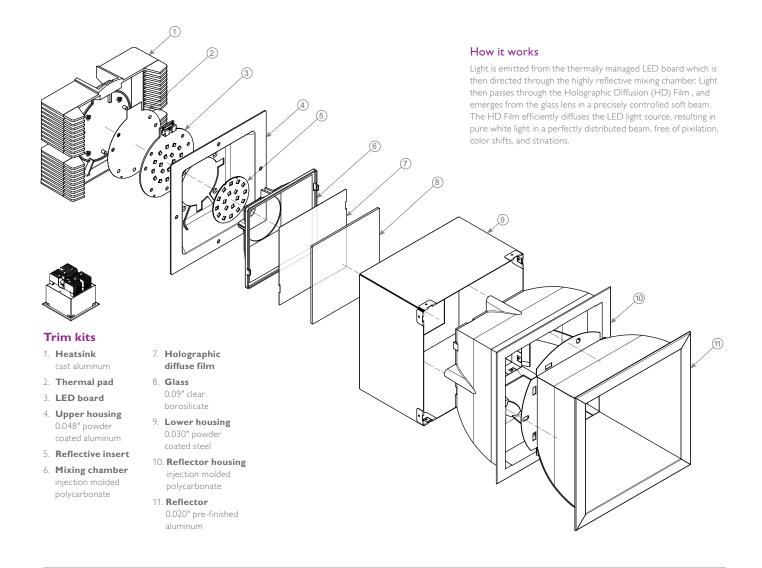
Calculite Professional-grade downlighting

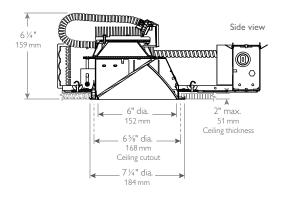


PHILIPS LIGHTOLIER

White LED

Downlight square aperture





Frame-in kit: New construction

Mounting frame: Galvanized stamped steel for dry or plaster ceilings. Vertical adjustment: Light engine adjusts in frame below ceilings up to 1 ½". Mounting brackets: Galvanized Steel. Adjustable through aperture. Use ¾" or 1 ½" lathing channel, ½" EMT or optional mounting bars.

Square aperture overview



Features

Ceiling cutout: See drawings for details.
4" aperture; 5 %" (130 mm).
6" aperture; 6%" (167mm).
Depth: See drawings for full dimensions.
Power connection: Attaches to light engine via push-in connector (on frame). Removable cover provides access.
Junction box: Allows inspection from below.
Thermal protector: Meets NEC & UL requirements. Do not install insulation above or within 3" of luminaire.
Thermal Management: Heat sink and thermal design along with the clean room assembly process ensures specified performance levels are maintained.

Options and accessories

Dimming capability: 0-10V or Lutron dimming. See LED-DIM specification sheet. Emergency capability: Inverter; See LED-LMI specification sheet. Integral (4, 6, & 7 inch); See LED-EM spec sheet (add "EM" suffix). Sloped ceilings: Compatible with slope ceiling adaptors. See specification sheet SCA. Mounting bars': 1950-18" (set of 2) 1951-27" (set of 2) T-Bar anchor clips': 1956 (set of 4), for use with above.

Labels

cULus, I.B.E.W. Suitable for wet locations. 5 year warranty. Energy Star certified (see below for exclusions).

Complete product = Frame-in kit + Trim kit Lumen package for the frame-in kit must match the trim kit. Calculite LED Trim kits are backwards compatible with all Calculite LED Frame-in Kits. Calculite LED White downlights feature an LED array of high brightness white light LEDs. The new LED boards in Calculite LED White ensure a less than 2-step SDCM color variation between luminaires.

Electrical

Electronic power supply: 120 or 277V, 50/60Hz, encased, overload and short circuit protected, thermal regulation to protect against overheating, sound rating. "A", -20°C minimum starting temperature, 35°C maximum ambient environment. **Rated life:** 4" & 6" aperture; 60,000 hrs at 70% lumen maintenance. 7" aperture; 1500Im and 2000Im are 60,000 hrs at 70% lumen maintenance. Based on IES LM-80-08 and TM-21-11.

Energy Star®

All new construction frame-in and trim kit configurations are Energy Star certified except for the following:

- Trim Kits configured with champagne bronze reflector finish (CCZ); example C6L10DL30KMCCZWVB.
- Frame-in Kits configured with universal voltage that are used in 277V applications; example C6L10NUVBZ10V.
- All configurations with 3500 lumen optics (35) are NOT Energy Star certified.
- All configurations with emergency options (EM) are NOT Energy Star certified.

4" aperture

Frame-In kit Electrical specifications	lnput volts	Input freq.	Input current	LED drive current	Input power ²	LED power	THD factor	Power factor
C4X4L05_VBZ10V	120V	50/60Hz	0.07A	350mA	8W	6W	<20%	>0.9
500lm w/0-10V dimming	277V	50/60Hz	0.04A	350mA	8W	6W	<20%	>0.7
C4X4L10_VBZ10V	120V	50/60Hz	0.12A	350mA	14W	11W	<20%	>0.9
1000lm w/0-10V dimming	277V	50/60Hz	0.62A	350mA	14W	11W	<20%	>0.8
C4X4L15VBZ10V 1500lm w/0-10V dimming	120V	50/60Hz	0.18A	520mA	23W	17W	<20%	>0.9
	277V	50/60Hz	0.09A	520mA	24W	17W	<20%	>0.9

6" aperture

Frame-In kit Electrical specifications	Input volts	Input freq.	Input current	LED drive current	Input power ²	LED power	THD factor	Power factor
C6X6L10_VBZ10V	120V	50/60Hz	0.12A	350mA	14W	11W	<20%	>0.9
1000lm w/0-10V dimming	277V	50/60Hz	0.62A	350mA	14W	11W	<20%	>0.8
C6X6L15VBZ10V	120V	50/60Hz	0.17A	350mA	21W	18W	<20%	>0.9
1500lm w/0-10V dimming	277V	50/60Hz	0.08A	350mA	21W	18W	<20%	>0.9
C6X6L20VBZ10V 2000lm w/0-10V dimming	120V	50/60Hz	0.26A	520mA	32VV	26W	<20%	>0.9
	277V	50/60Hz	0.12A	520mA	33W	26W	<20%	>0.9

Reference the following specification sheets for more info: C4X4L-DL-VB, C6X6L-DL-VB, C4X4L-WW-VB, C6X6L-WW-VB.

Excludes 4" aperture.
 +/- 5%

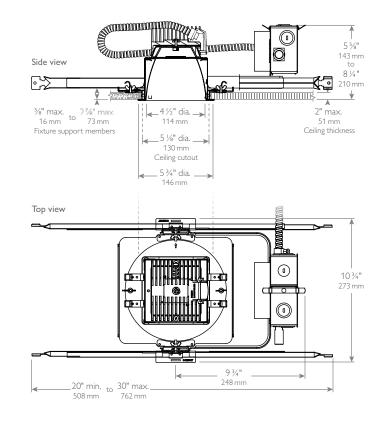
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White LED

4" Downlight square aperture



Trim kit height is 5 ½" (140mm)



Calculite White LED square aperture Downlight is comprised of a frame-in kit and a trim kit.

Frame-in kit

example: C4X4L05NUVBZ10V

Series	Lumens	Installation	Input voltage	Version	Dimming	Options
C4X4L		Ν	U	VB		
C4X4L Calculite 4" LED square aperture	05 500lm 10 1000lm	N New construction	U Universal (120/277 V)	VB Version B	Z10V0-10V dimmingLDLutron driver	EM Emergency ¹ LC Chicago Plenum
	15 1500lm	N New construction	1 120∨ 2 277∨	VB Version B	Z10V 0-10V dimming LD Lutron driver	EM Emergency ¹ LC Chicago Plenum

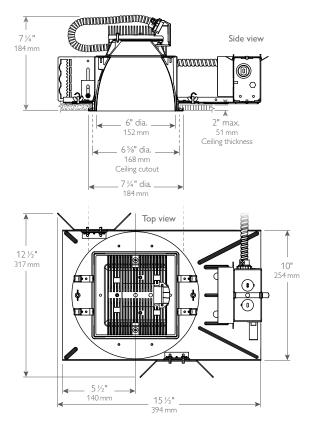
Trim kit

example: C4X4L10DL35KCCDPVB

Series	Lumens	Style	сст	Reflector finish	Flange	Version ¹
C4X4L		DL				VB
C4X4L Calculite 4" LED square aperture	05 500 lm 10 1000 lm & 1500 lm	DL Downlight	27K 2700K 30K 3000K 35K 3500K 40K 4000K	CL Clear CCL Comfort clear CCD Comfort clear diffuse CCZ Champagne bronze WH White (painted)	W White (painted)P Polished (matches aperture)	VB Version B

1. Consult LED-EM spec sheet for **EM** option details and restrictions.

6" Downlight square aperture



Trim kit height is 6 1/2" (165 mm)

Calculite White LED square aperture Downlight is comprised of a frame-in kit and a trim kit.

Frame-in kit

example: C6X6L15NUVBZ10V

Series	Lumens	Installation	Input voltage	Version	Dimming	Options
C6X6L		Ν	U	VB		
C6X6L Calculite 6" LED square aperture	15 1500 lm	N New construction	U Universal (120/277 V)	VB Version B	Z10V0-10 V dimmingLDLutron driver	EM Emergency ¹ LC Chicago Plenum
	20 2000lm 35 3500lm	N New construction	1 120∨ 2 277∨	VB Version B	Z10V0-10 V dimmingLDLutron driver	EM Emergency ¹ LC Chicago Plenum

Trim kit

Series	Lumens	Style	сст	Reflector finish	Flange	Version ¹
C6X6L		DL				VB
C6X6L Calculite 6" LED square aperture	1520 1500 lm, 2000 lm, & 3500 lm	DL Downlight	27K 2700 K 30K 3000 K 35K 3500 K 40K 4000 K	CL Clear CCL Comfort clear CCD Comfort clear diffuse CCZ Champagne bronze WH White (painted)	 W White (painted) P Polished (matches aperture) FT Flangeless (flush-mount)² 	VB Version B

1. Consult LED-EM spec sheet for $\ensuremath{\mathsf{EM}}$ option details and restrictions.

2. Accessory **CA6X6FMR** required for gypsum applications (minimal ¼" reflector flange).

CA6X6FMR Flangeless trim with plaster ring accessory,

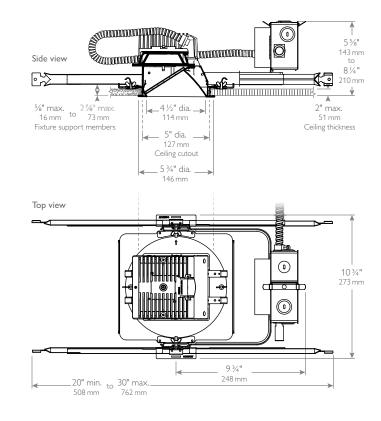
(Recommended for gypsum installations)

White LED

4" Lensed Wall Wash square aperture



Trim kit height is 4³/₄" (121 mm)



Calculite White LED square aperture Wall Wash is comprised of a frame-in kit and a trim kit.

Frame-in kit

example: C4X4L05NUVBZ10V

Series	Lumens	Installation	Input voltage	Version	Dimming	Options
C4X4L		Ν		VB		
C4X4L Calculite 4" LED square aperture	05 500lm 10 1000lm	N New construction	U Universal (120/277 V)	VB Version B	Z10V0-10V dimmingLDLutron driver	EM Emergency ¹ LC Chicago Plenum
	15 1500lm	N New construction	1 120∨ 2 277∨	VB Version B	Z10V 0-10V dimming LD Lutron driver	EM Emergency ¹ LC Chicago Plenum

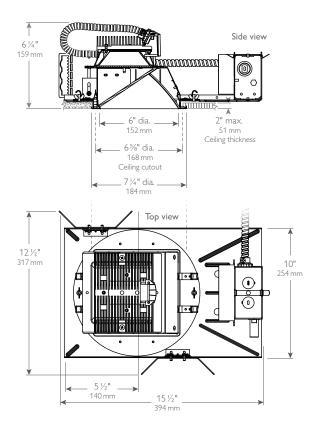
Trim kit

example: C4X4L10WW35KCCDPVB

Series	Lumens	Style	сст	Reflector finish	Flange	Version ¹
C4X4L		ww				VB
C4X4L Calculite 4" LED square aperture	05 500 lm 10 1000 lm & 1500 lm	WW Lensed wall wash	27K 2700K 30K 3000K 35K 3500K 40K 4000K	CL Clear CCL Comfort clear CCD Comfort clear diffuse CCZ Champagne bronze WH White (painted)	W White (painted)P Polished (matches aperture)	VB Version B

1. Consult LED-EM spec sheet for $\ensuremath{\mathsf{EM}}$ option details and restrictions.

6" Lensed Wall Wash square aperture





Trim kit height is 5 ½" (140 mm)

Calculite White LED square aperture Wall Wash is comprised of a frame-in kit and a trim kit.

Frame-in kit

example: C6X6L15NUVBZ10V

example: C6X6L1520DL35KCCDPVB

Series	Lumens	Installation	Input voltage	Version	Dimming	Options
C6X6L		Ν		VB		
C6X6L Calculite 6" LED square aperture	15 1500 lm	N New construction	U Universal (120/277 V)	VB Version B	Z10V0-10V dimmingLDLutron driver	EM Emergency ¹ LC Chicago Plenum
	20 2000lm 35 3500lm	N New construction	1 120∨ 2 277∨	VB Version B	Z10V0-10 V dimmingLDLutron driver	EM Emergency ¹ LC Chicago Plenum

Trim kit

Series C6X6L C6X6L

	Lumens	Style	ССТ	Reflector finish	Flange	Version ¹
L		ww				VB
Calculite 6" LED square aperture	1520 1500 lm, 2000 lm, & 3500 lm	WW Lensed wall wash	27K 2700K 30K 3000K 35K 3500K 40K 4000K	CL Clear CCL Comfort clear CCD Comfort clear diffuse CCZ Champagne bronze WH White (painted)	 W White (painted) P Polished (matches aperture) FT Flangeless (flush-mount)² 	VB Version B

1. Consult LED-EM spec sheet for $\ensuremath{\mathsf{EM}}$ option details and restrictions.

2. Accessory **CA6X6FMR** required for gypsum applications (minimal ¼" reflector flange).

⁽Recommended for gypsum installations)



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