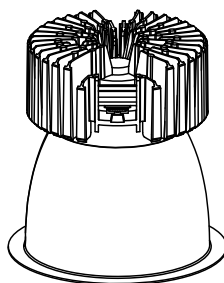


Downlighting

Calculite LED PoE

6" round aperture, power over ethernet, medium beam



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

Philps Lightolier Calculite LED downlight 6" round with power over ethernet (PoE) features an LED array of high brightness white light LEDs that ensure high color consistency. The binning process of the LEDs ensure a less than 2-step SDCM color variation between luminaires.

Complete product = Frame-in kit + Trim kit + Optional multi-sensor

Frame-in kit

example: C6L20NPVB

Series	Lumens	Installation	Input voltage	Version	Optional accessory ²
C6L	20	N	P	VB	
C6L Calculite 6" LED round aperture	20 ¹ 2000lm	N New construction	P Power over ethernet	VB Version B	AMS ActiLume multi-sensor

- Consult IES tables and photometry on last page for detailed lumen output.
- ActiLume multi-sensor frame-in kit accessory must be ordered separately.

Trim kit

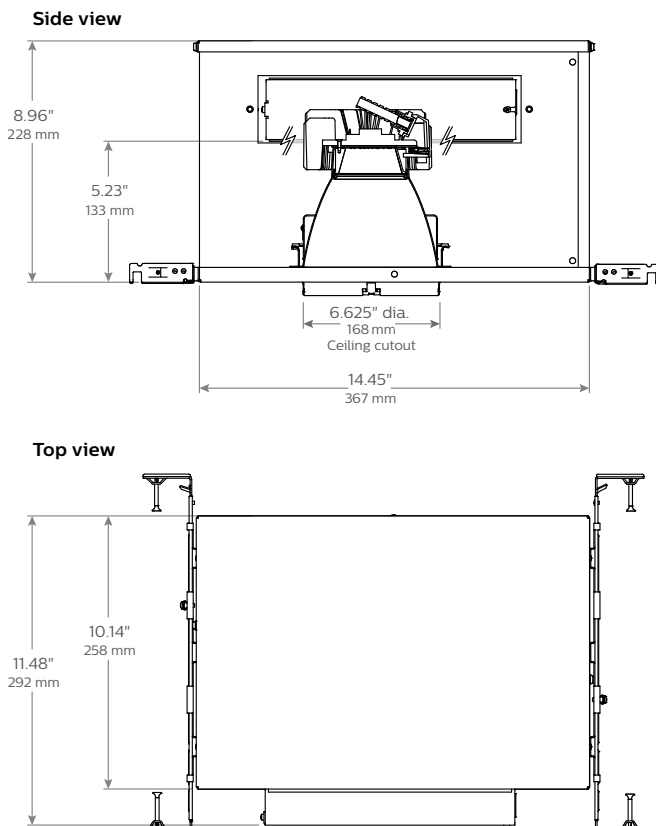
example: C6L10DL35KMCCDWVB

Series	Lumens	Style	CCT	Beam	Reflector	Flange	Version
C6L	10	DL		M			VB
C6L Calculite 6" LED round aperture	10 ¹ 1000lm	DL Downlight	27K 2700K 30K 3000K 35K 3500K 40K 4000K	M Medium, 0.8 s.c.	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

C6L-DL-VB Calculite LED downlight with PoE

6" round aperture, power over ethernet, medium beam

Dimensions



Calculite PoE Frame-in kit
with ActiLume multi-sensor
(AMS option).

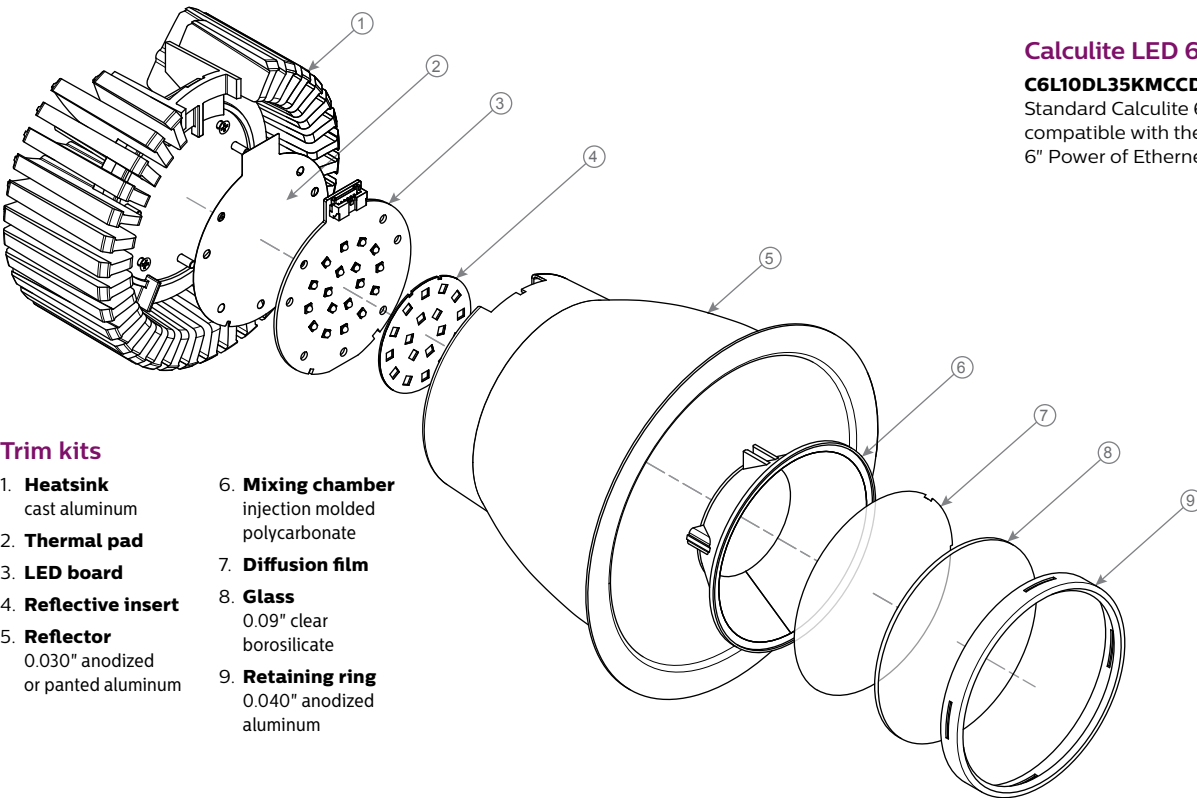
Frame-in kit

Mounting frame: Galvanized stamped steel for dry or plaster ceilings.

Mounting brackets: Galvanized Steel. Adjustable 12" - 16".

C6L-DL-VB Calculite LED downlight with PoE

6" round aperture, power over ethernet, medium beam



Calculite LED 6"
C6L10DL35KMCCDWVB
Standard Calculite 6" Trim kits are compatible with the Calculite LED 6" Power of Ethernet Frame-in Kit.

Trim kits

- 1. **Heatsink**
cast aluminum
- 2. **Thermal pad**
- 3. **LED board**
- 4. **Reflective insert**
- 5. **Reflector**
0.030" anodized or panted aluminum
- 6. **Mixing chamber**
injection molded polycarbonate
- 7. **Diffusion film**
- 8. **Glass**
0.09" clear borosilicate
- 9. **Retaining ring**
0.040" anodized aluminum

Features

Ceiling cutout: 6" aperture; 6 5/8" (168mm).
Depth: 8.96" (228 mm) including PoE frame.
Power connection: Attaches to light engine via push-in connector (on frame).
Thermal Management: Heat sink and thermal design along with the clean room assembly process ensures specified performance levels are maintained.

Electrical

Powered via Philips PoE lighting controller. Complies with FCC rules per Title 47 Part 15 (Class A) for EMI / RFI (conducted & radiated). Wire access knockout provides RJ45 connection point for PoE network. PoE lighting controller accessible from below ceiling.

Rated life: 60,000 hrs at 70% lumen maintenance based on IES LM-80-08 and TM-21-11.

Frame-In kit Electrical specifications	Nominal input volts	Preferred volt range	Input frequency	Input current	Input power	Output power	Standby power
C6L20NPVB 1900lm	53V	51-54V	DC	≤600mA	≤27W	25W	<0.9W

Options and accessories

Sensor option: The ActiLume multi-sensor (**AMS**) is available as an accessory for occupancy sensing and/or daylight harvesting for additional energy savings with no reduction of life.
Mounting bars: Included on frame. (See instruction sheet for installation details).

Labels

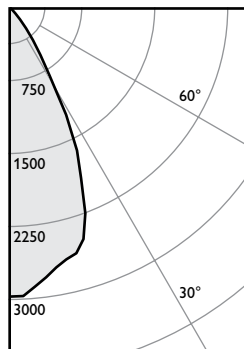
cULus, I.B.E.W., Suitable for wet locations. 5 year warranty.

C6L-DL-VB Calculite LED downlight with PoE

6" round aperture, power over ethernet, medium beam

3500K, Medium Beam, Downlight

Candela Curve



Frame: C6L20NPVB

Trim: C6L10DL35KCLWVB

CCT¹: 3500K
Output lumens: 1987 lms
Input watts²: 31.3 W
Efficacy: **63.2 lm/w**
CRI: 80 min
Spacing Crit.: 0.8
Report no³: 574GFR

Zonal summary

Zone	Lumens	%Luminaire
0-30	1683	85.1%
0-40	1941	98.1%
0-60	1977	99.9%
0-90	1978	100.0%

Angle	Mean CP	Lumens
0	2948	
5	2856	268
10	2690	
15	2593	714
20	2231	
25	1604	701
30	796	
35	395	258
40	148	
45	27	34
50	4	
55	3	2
60	2	
65	1	1
70	1	
75	0	0
80	0	
85	0	0
90	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	118	4.0'
6'	82	4.8'
7'	60	5.6'
8'	46	6.4'
9'	36	7.2'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	91.7	1.39
6'	60.2	0.91
7'	43.0	0.65
8'	35.8	0.54
9'	28.7	0.43

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Finish Adjust. factors

CL = 100%
CCL = 95%
CCD = 87%
CCZ = 63%
WH = 87%

CCT Adjust. factors

4000K = 103%
3500K = 100%
3000K = 97%
2700K = 87%

Coefficients of utilization

Ceiling	80%				70%				50%				30%				0%
Wall	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%																
0	119	119	119	119	116	116	111	111	106	106	100	100	95	95	95	95	95
1	114	112	109	107	109	106	105	102	102	99	97	93	89	89	89	89	89
2	109	105	101	98	103	97	100	95	97	93	88	84	80	80	80	80	80
3	104	99	94	91	97	90	95	88	92	87	84	80	76	76	76	76	76
4	100	93	88	84	92	84	90	83	88	82	78	74	70	70	70	70	70
5	95	88	83	79	87	79	85	78	84	77	75	71	67	67	67	67	67
6	91	83	78	74	83	74	81	73	80	73	71	67	63	63	63	63	63
7	87	79	74	70	78	70	77	69	76	69	67	63	59	59	59	59	59
8	84	75	70	66	75	66	74	66	73	65	64	60	56	56	56	56	56
9	80	72	66	63	71	63	70	62	69	62	61	57	53	53	53	53	53
10	77	68	63	60	68	59	67	59	66	59	58	54	50	50	50	50	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. Wattage controlled to within +/- 5%.
3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

© 2016 Philips Lighting Holding B.V. All rights reserved.
Philips reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.
philips.com/connectedofficelighting



Philips Lighting North America Corporation
200 Franklin Square Drive, Somerset, NJ 08873
Tel. 855-486-2216

Philips Lighting Canada Ltd.
281 Hillmount Rd, Markham, ON, Canada L6C 2S3
Tel. 800-668-9008