

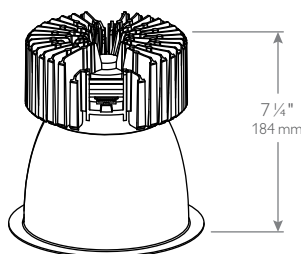
PHILIPS LIGHTOLIER

Downlighting

Calculite LED 6" Downlight

Round aperture, Medium beam
500/1000/1500/2000/3000lm,
and Wide beam 1500/2000/3000lm

Total height
of
Light engine
+
Reflector



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

Calculite LED 6" features an LED array of high brightness white light LEDs. The new LED boards in Calculite LED ensure a less than 2-step SDCM color variation between luminaires.

Complete product = Frame-in kit + Trim kit
Lumen package for the frame-in kit must match the trim kit.

Frame-in kit

example: C6L10NUVBZ10V

Series	Lumens	Installation	Input voltage	Version	Dimming	Options ⁵
☐	☐	☐	☐	VB	☐	☐
C6L Calculite 6" LED round aperture	05 500lm	N New construction	U Universal (120/277V)	VB Version B	Z10V 0-10V dimming LD Lutron driver	LC Chicago Plenum
	10 1000lm					
	15 1500lm	N New construction R Remodeler	U Universal (120/277V)	VB Version B	Z10V 0-10V dimming LD Lutron driver	EM Emergency ¹ LC Chicago Plenum ³
	20 2000lm 30 3000lm	N New construction R Remodeler ⁴	1 120V 2 277V	VB Version B	Z10V 0-10V dimming LD Lutron driver ¹	EM Emergency ¹ LC Chicago Plenum ³
C6L Calculite 6" LED round aperture (347v configurations)	15 1500lm	N New construction	1 120V	VB Version B	Z10V 0-10V dimming	-347 347V (for Canada) ²
	20 2000lm	R Remodeler				
	30 3000lm	N New construction R Remodeler	2 277V	VB Version B	Z10V 0-10V dimming	-347 347V (for Canada) ²
CUL Calculite LED Universal aperture	15 1500lm	J J-box mount retrofit	U Universal (120/277V)	VB Version B	Z10V 0-10V dimming Existing wiring will determine if dimming is an option.	
	20 2000lm	J J-box mount retrofit	1 120V 2 277V	VB Version B	Z10V 0-10V dimming Existing wiring will determine if dimming is an option.	
	15 1500lm	S Screw-in base retrofit	1 120V	VB Version B		
	20 2000lm				Existing wiring will determine if dimming is an option.	

Trim kit

example: C6L1520DL35KWCCDPVB

Series	Lumens	Style	CCT	Beam	Reflector	Flange	Version ¹	Options ⁹
C6L		DL					VB	
C6L Calculite 6" LED round aperture	05 500lm ⁷	DL Downlight	27K 2700 K	M Medium, 0.8 s.c. ⁵	CL Clear	W White (painted)	VB Version B	blank None EM Emergency
	10 1000lm ⁷		30K 3000 K	CCL Comfort clear	P Polished (matches aperture)			
	1520 1500/2000/3000 lm		35K 3500 K	CCD Comfort clear diffuse	FT Flangeless (flush-mount) ^{4,5}			
			40K 4000 K	CCZ Champagne bronze				
						WH White (painted)		

1. Consult LED-EM spec sheet for Emergency (EM) option details and restrictions.

Not available with Motion-driven (MD) design.

- Consult LED-EM spec sheet for Emergency (**EM**) option details and restrictions. Not available with Lutron driver (**LD**) dimming.
 - Consult factory for availability of other 347V (**-347**) option configurations.
 - Consult factory for availability for other Chicago Plenum (**LC**) option configurations.
 - Accessory **CA6FMR** required for gypsum applications and flangeless (**FT**) trims (minimal 1/4" reflector flange).
 - Available for new construction (**N**) installation frame-in kits only.
 - Available for 1500/2000/3000 (**1520**) lumen trim kits only.
 - Available for medium (**M**) beam only.
 - Remodeler only available with 0-10V dimming (**Z10V**) not available with Emergency (**EM**) or Chicago Plenum (**LC**).
 - Specified only when reflector mounted EM test switch is required. For ceiling mounted switch leave blank.
- Note: See page 3 for Energy Star[®] compatibility.



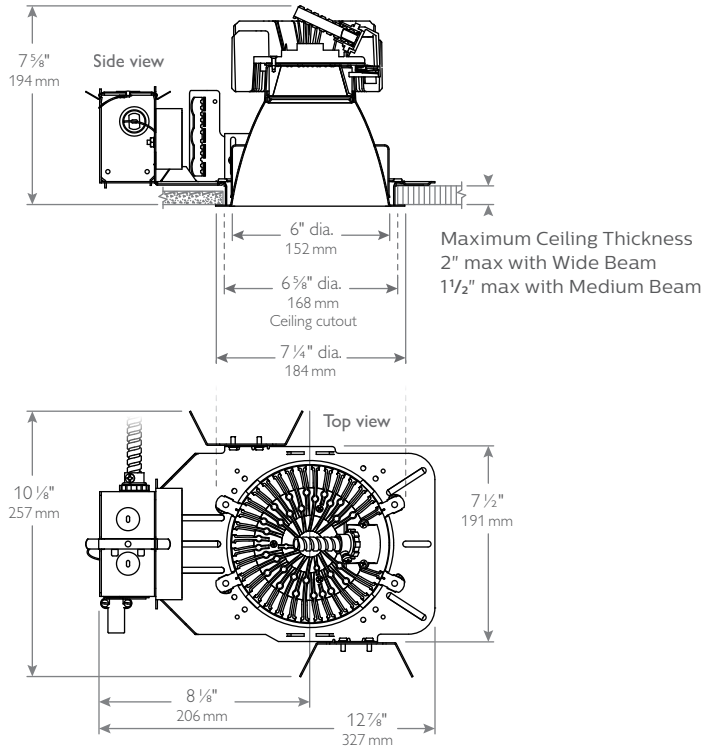
CA6FMR
Flangeless trim with plaster ring accessory.
(Required for gypsum installations)



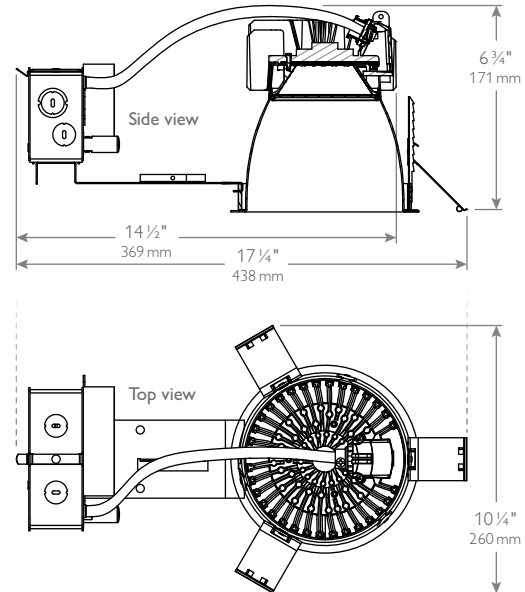
C6L-DL-VB Calculite LED

6" Round Aperture, Downlight, Medium Beam 500/1000/1500/2000/3000lm,
Wide Beam 1500/2000/3000lm

New Construction



Remodeler



Frame-in kits

New construction

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

Vertical adjustment: Light engine adjusts in frame below ceilings up to 1 1/8" max.

Mounting brackets: Galvanized Steel. Adjustable through aperture. Use 3/4" or 1 1/2" lathing channel, 1/2" EMT or optional mounting bars (see Options and Accessories for optional mounting bars).

Remodeler

Compatibility: Flanged downlight only.

Power pack: Swivel junction box for tight plenum spaces. Snap-off covers permits wiring from top.

Spring holder: Galvanized steel. Accepts up to 2 1/2" (64mm) ceiling thickness.

Retrofit

Compatibility: Downlight only.

Capability: Converts 6" (153mm) or 7" (178mm) Lightolier incandescent frame-in kit without additional wiring using existing Calculite E26 base.

Socket cup support: Spun steel.

Holds Calculite incandescent socket cup.

Socket extender: Phenolic E26 base.

Connect to existing lamp holder.

Quick-ship

Philips is committed to providing customers with the products they need when they need them. For Service Smart (2 day) and Spec Smart (2 week) availability please reference the Philips Luminaire Smart Service Guide or contact your Philips Lighting representative. Quick-ship SKUs apply to the United States only.

Options and accessories

Dimming capability:

0-10V or Lutron dimming (see LED-DIM spec sheet).

Emergency capability:

Inverter (see CP-60150 spec sheet - ZI series). Integral (see LED-EM spec sheet - add "EM" suffix).

Sloped ceilings:

Compatible with slope ceiling adapters (see SCA spec sheet).

Mounting bars:

1950 18" long (set of 2)

1951 27" long (set of 2)

7994 Wood joist telescoping mounting bars (minimum 13 1/4" and maximum 24 1/2")

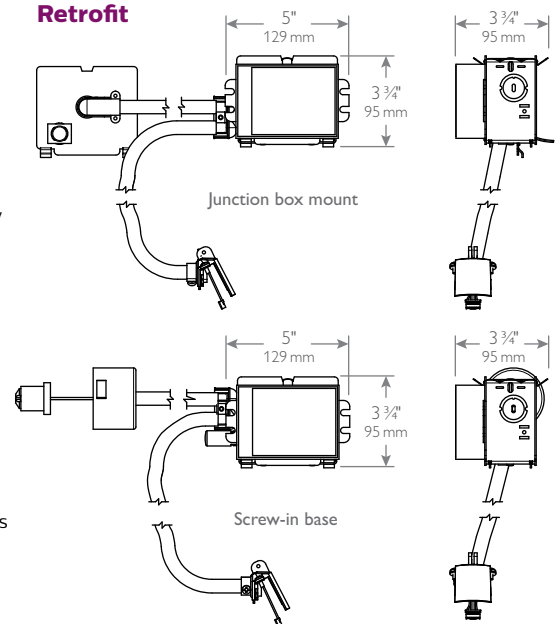
T-Bar anchor clips:

1956 For 18"/27" mounting bars (set of 4)

Decorative elements:

D6A Consult 6in Vetro spec sheet

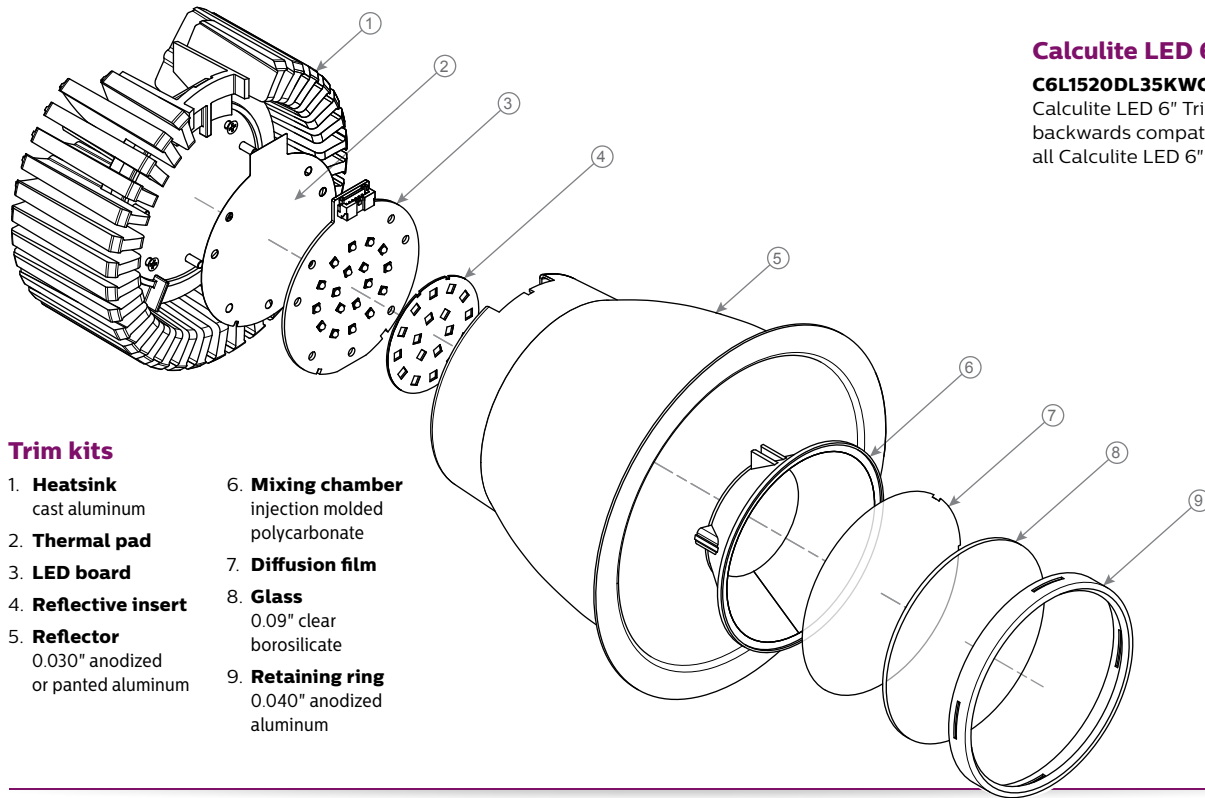
Retrofit



Retrofit is not available for 3000lm configurations.

C6L-DL-VB Calculite LED

6" Round Aperture, Downlight, Medium Beam 500/1000/1500/2000/3000lm,
Wide Beam 1500/2000/3000lm



Calculite LED 6"

C6L1520DL35KWCCDPVB

Calculite LED 6" Trim kits are backwards compatible with all Calculite LED 6" Frame-in Kits.

Trim kits

1. **Heatsink**
cast aluminum
2. **Thermal pad**
3. **LED board**
4. **Reflective insert**
0.030" anodized
or panted aluminum
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; 6⁵/₈" (168mm).
Depth: 7⁵/₈" (194mm) including light engine.
Power connection: Attaches to light engine via push-in connector (on frame). Removable cover provides access.
Junction box: Allows inspection from below. UL listed for 8 No. 12 AWG, 90°C through branch circuit connectors.
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.

Rated life: Offers 60,000 hour rated life (3000lm offers 50,000 hour rated life) at 70% lumen maintenance (L70). Tested in accordance with IES LM-80-08 and TM-21-11. Color consistency between luminaires over the duration of our standard warranty will not be greater than 3 points in u', v'.

ENERGY STAR®

All new construction (**N**) frame-in and trim kit configurations are ENERGY STAR® certified except for the following:

- **Frame-in Kits:** Universal voltage options used in 277V configurations.
- **Trim Kits:** Champagne bronze (**CCZ**) reflector finishes.
- All emergency (**EM**) configurations.
- All 347V configurations.

Electrical

Electronic power supply: 120 or 277V, 50/60Hz, enclosed, overload and short circuit protected, thermal regulation to protect against overheating, sound rating: "A", -20°C minimum starting temperature.

Labels

cULus, I.B.E.W.
Suitable for wet locations.
5 year warranty.
ENERGY STAR® certified
(see exclusions to the left).

Frame-In kit Electrical specifications	Input volts	Input freq.	Input current	LED drive current	Input power*	LED power	THD factor	Power factor
C6L05NUVBZ10V 500lm w/0-10V dimming	120V	50/60Hz	0.06A	300mA	7W	5W	<15%	>0.95
	277V	50/60Hz	0.03A	300mA	7W	5W	<20%	>0.80
C6L10NUVBZ10V 1000lm w/0-10V dimming	120V	50/60Hz	0.11A	300mA	13W	10W	<10%	>0.95
	277V	50/60Hz	0.05A	300mA	13W	10W	<15%	>0.85
C6L15□_VBZ10V 1500lm w/0-10V dimming	120V	50/60Hz	0.16A	300mA	18W	15W	<15%	>0.90
	277V	50/60Hz	0.08A	300mA	18W	15W	<20%	>0.90
C6L20□_VBZ10V 2000lm w/0-10V dimming	120V	50/60Hz	0.20A	400mA	25W	20W	<15%	>0.90
	277V	50/60Hz	0.09A	400mA	25W	20W	<15%	>0.90
C6L30□_VBZ10V 3000lm w/0-10V dimming	120V	50/60Hz	0.31A	600mA	37W	30W	<20%	>0.95
	277V	50/60Hz	0.14A	600mA	37W	30W	<20%	>0.95

* +/- 5%

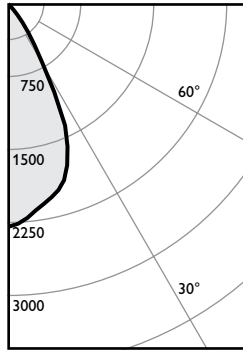
□ = Applies to both New Construction (**N**) and Remodeler (**R**) Installations.
— = Applies to both 120V (**1**) and 277V (**2**) Input voltages.

C6L-DL-VB Calculite LED

6" Round Aperture, Downlight, Medium Beam 500/1000/1500/2000/3000lm,
Wide Beam 1500/2000/3000lm

18W LED, 3500K, Medium Beam 1500 lumen, Downlight

Candela Curve



Frame: C6L15NUVBZ10V
Trim: C6L1520DL35KMCLWVB
CCT¹: 3500K
Output lumens: 1635 lms
Input watts²: 18.3 W
Efficacy: 89.4 lm/w
CRI: 80 min
Spacing Crit.: 0.8
Report no³: 687GFR

Zonal summary

Zone	Lumens	%Luminaire
0-30	1362	83.3%
0-40	1594	97.5%
0-60	1633	99.9%
0-90	1635	100.0%

Angle	Mean CP	Lumens
0	2318	
5	2235	209
10	2112	
15	2005	558
20	1784	
25	1392	595
30	700	
35	356	232
40	145	
45	30	35
50	7	
55	4	4
60	3	
65	2	2
70	1	
75	1	1
80	0	
85	0	0
90	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	93	4.0'
6'	64	4.8'
7'	47	5.6'
8'	36	6.4'
9'	29	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'	75.6	0.81
6'	49.6	0.53
7'	35.4	0.38
8'	29.5	0.32
9'	23.6	0.25

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

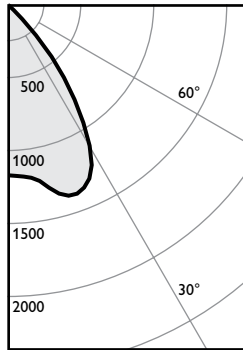
4000K = 103%
3500K = 100%
3000K = 97%
2700K = 87%

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%																
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100	106	106	100	94	0
1	114	111	109	107	109	105	105	102	102	99	99	94	102	99	94	89	
2	109	104	101	98	103	97	100	94	97	92	89	84	97	92	84	79	
3	104	98	94	90	97	89	94	88	92	87	84	79	92	87	79	74	
4	99	93	87	84	91	83	89	82	87	81	79	74	87	81	74	69	
5	95	87	82	78	86	78	85	77	83	76	74	69	83	76	69	64	
6	91	83	77	73	82	73	80	72	79	72	67	64	79	72	64	60	
7	87	78	73	69	78	69	76	68	75	68	63	60	75	68	60	55	
8	83	74	69	65	74	65	73	65	72	64	59	55	72	64	55	50	
9	79	71	65	61	70	61	69	61	68	61	54	50	68	61	50	45	
10	76	67	62	58	67	58	66	58	65	58	50	45	65	58	45	40	

18W LED, 3500K, Wide Beam 1500 lumen, Downlight

Candela Curve



Frame: C6L15NUVBZ10V
Trim: C6L1520DL35KWCLWVB
CCT¹: 3500K
Output lumens: 1729 lms
Input watts²: 18.3 W
Efficacy: 94.5 lm/w
CRI: 80 min
Spacing Crit.: 1.1
Report no³: 688GFR

Zonal summary

Zone	Lumens	%Luminaire
0-30	1096	63.4%
0-40	1588	91.9%
0-60	1724	99.7%
0-90	1729	100.0%

Angle	Mean CP	Lumens
0	1180	
5	1193	115
10	1238	
15	1353	382
20	1391	
25	1327	599
30	1125	
35	798	493
40	464	
45	132	130
50	11	
55	6	6
60	4	
65	3	3
70	2	
75	1	1
80	1	
85	0	0
90	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	47	5.5'
6'	33	6.6'
7'	24	7.7'
8'	18	8.8'
9'	15	9.9'

* 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'	78.2	0.81
6'	51.3	0.53
7'	36.6	0.38
8'	30.5	0.32
9'	24.4	0.25

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%																
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100	106	106	100	94	0
1	113	110	108	105	108	104	104	101	100	98	93	86	100	98	93	86	
2	107	102	98	94	100	93	97	91	94	89	86	79	94	89	86	79	
3	101	95	89	85	93	85	91	83	88	82	79	73	88	82	79	73	
4	96	88	82	77	87	77	84	76	82	75	73	67	82	75	73	67	
5	90	82	75	71	81	71	79	70	77	69	67	62	77	69	67	62	
6	85	76	70	65	75	65	74	64	72	64	62	57	72	64	62	57	
7	81	71	64	60	70	60	69	59	68	59	57	52	68	59	57	52	
8	76	66	60	55	66	55	64	55	63	55	53	48	63	55	53	48	
9	72	62	56	51	61	51	60	51	60	51	49	44	60	51	49	44	
10	68	58	52	48	58	48	57	48	56	47	46	41	56	47	46	41	

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

2. Wattage controlled to within +/- 5%.

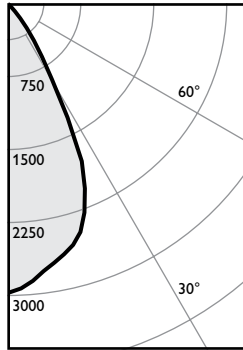
3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

C6L-DL-VB Calculite LED

6" Round Aperture, Downlight, Medium Beam 500/1000/1500/2000/3000lm,
Wide Beam 1500/2000/3000lm

25W LED, 3500K, Medium 2000 lumen, Downlight

Candela Curve



Frame: C6L20N1VBZ10V
Trim: C6L1520DL35KMCLWVB

CCT¹: 3500K
Output lumens: 2097 lms
Input watts²: 25.2 W
Efficacy: 83.2 lm/w
CRI: 80 min
Spacing Crit.: 0.8
Report no³: 693GFR

Zonal summary

Zone	Lumens	%Luminaire
0-30	1747	83.3%
0-40	2044	97.5%
0-60	2094	99.9%
0-90	2097	100.0%

Angle	Mean CP	Lumens
0	2979	
5	2868	268
10	2711	
15	2573	716
20	2290	
25	1788	763
30	896	
35	456	297
40	186	
45	38	45
50	9	
55	5	5
60	3	
65	2	2
70	1	
75	1	1
80	0	
85	0	0
90	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	119	4.0'
6'	83	4.8'
7'	61	5.6'
8'	47	6.4'
9'	37	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'	96.9	1.12
6'	63.6	0.73
7'	45.4	0.52
8'	37.9	0.44
9'	30.3	0.35

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

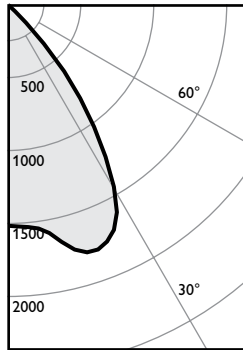
4000K = 103%
3500K = 100%
3000K = 97%
2700K = 87%

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%																
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100	106	106	100	94	0
1	114	111	109	107	109	105	105	102	102	99	99	94	102	99	94	89	
2	109	104	101	98	103	96	96	94	94	92	92	88	97	92	88	84	
3	104	98	94	90	97	89	89	88	88	86	86	84	92	86	84	81	
4	99	92	87	83	91	83	83	82	82	81	81	79	87	81	79	76	
5	95	87	82	78	86	78	78	77	77	76	76	74	83	76	74	71	
6	91	82	77	73	82	73	73	72	72	71	71	70	79	72	70	68	
7	87	78	73	69	77	68	68	67	67	66	66	65	75	68	66	63	
8	83	74	69	65	74	65	65	64	64	63	63	62	71	64	63	60	
9	79	70	65	61	70	61	61	60	60	59	59	58	68	61	59	56	
10	76	67	62	58	67	58	58	57	57	56	56	55	65	58	56	53	

25W LED, 3500K, Wide 2000 lumen, Downlight

Candela Curve



Frame: C6L20N1VBZ10V
Trim: C6L1520DL35KWCLWVB

CCT¹: 3500K
Output lumens: 2217 lms
Input watts²: 25.2 W
Efficacy: 88.0 lm/w
CRI: 80 min
Spacing Crit.: 1.1
Report no³: 694GFR

Zonal summary

Zone	Lumens	%Luminaire
0-30	1407	63.5%
0-40	2037	91.9%
0-60	2211	99.7%
0-90	2217	100.0%

Angle	Mean CP	Lumens
0	1516	
5	1531	148
10	1590	
15	1739	490
20	1788	
25	1705	769
30	1442	
35	1021	630
40	592	
45	169	166
50	14	
55	8	8
60	5	3
65	3	
70	2	2
75	2	
80	1	1
85	1	
90	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	61	5.5'
6'	42	6.6'
7'	31	7.7'
8'	24	8.8'
9'	19	9.9'

* 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'	100.2	1.12
6'	65.8	0.73
7'	47.0	0.52
8'	39.2	0.44
9'	31.3	0.35

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%																
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100	106	106	100	94	0
1	113	110	108	105	108	104	104	101	101	99	99	94	100	98	94	89	
2	107	102	98	94	100	93	93	91	91	89	89	86	97	92	88	84	
3	101	95	89	85	93	85	85	83	83	81	81	79	88	82	79	76	
4	96	88	82	78	87	77	77	76	76	75	75	73	82	76	73	70	
5	90	82	75	71	81	71	71	70	70	69	69	67	77	71	67	64	
6	85	76	70	65	75	65	65	64	64	63	63	62	72	66	62	59	
7	81	71	64	60	70	60	60	59	59	58	58	57	68	62	58	55	
8	76	66	60	55	66	55	55	54	54	53	53	52	63	57	53	50	
9	72	62	56	51	61	51	51	50	50	49	49	48	60	54	49	46	
10	68	58	52	48	58	48	48	47	47	46	46	45	56	50	45	42	

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.

2. Wattage controlled to within +/- 5%.

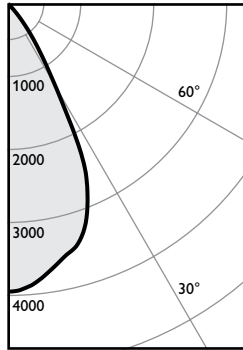
3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

C6L-DL-VB Calculite LED

6" Round Aperture, Downlight, Medium Beam 500/1000/1500/2000/3000lm,
Wide Beam 1500/2000/3000lm

37W LED, 3500K, Medium 3000 lumen, Downlight

Candela Curve



Frame: C6L30N1VBZ10V
Trim: C6L1520DL35KMCLWVB

CCT¹: 3500K
Output lumens: 2859 lms
Input watts²: 36.5 W
Efficacy: 78.3 lm/w
CRI: 80 min
Spacing Crit.: 0.8
Report no³: FO34798

Zonal summary

Zone	Lumens	%Luminaire
0-30	2380	83.2%
0-40	2789	97.6%
0-60	2856	99.9%
0-90	2859	100.0%

Angle	Mean CP	Lumens
0	3940	
5	3854	361
10	3647	
15	3468	966
20	3121	
25	2470	1052
30	1252	
35	627	409
40	251	
45	54	61
50	10	
55	6	6
60	4	
65	2	2
70	1	
75	1	1
80	0	
85	0	0
90	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	158	4.0'
6'	109	4.8'
7'	80	5.6'
8'	62	6.4'
9'	49	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'	132.1	1.62
6'	86.7	1.06
7'	61.9	0.76
8'	51.6	0.63
9'	41.3	0.51

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

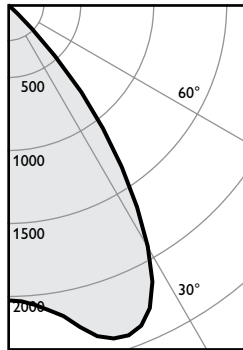
4000K = 103%
3500K = 100%
3000K = 97%
2700K = 87%

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%																
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100	106	106	100	94	0
1	114	111	109	107	109	105	105	102	102	99	99	94	99	99	94	89	
2	109	104	101	98	103	97	100	94	97	92	92	89	97	92	89	84	
3	104	98	94	90	97	89	94	88	92	86	86	84	92	86	84	79	
4	99	92	87	84	91	83	89	82	87	81	81	79	87	81	79	74	
5	95	87	82	78	86	78	85	77	83	76	76	74	83	76	74	69	
6	91	83	77	73	82	73	80	72	79	72	72	70	79	72	70	66	
7	87	78	73	69	77	69	76	68	75	68	68	66	75	68	66	63	
8	83	74	69	65	74	65	73	64	72	64	64	63	72	64	63	59	
9	79	70	65	61	70	61	69	61	68	61	61	59	68	61	59	55	
10	76	67	62	58	67	58	66	58	65	58	58	56	65	58	56	52	

36W LED, 3500K, Wide 3000 lumen, Downlight

Candela Curve



Frame: C6L30N1VBZ10V
Trim: C6L1520DL35KWCLWVB

CCT¹: 3500K
Output lumens: 2949 lms
Input watts²: 36.4 W
Efficacy: 81.0 lm/w
CRI: 80 min
Spacing Crit.: 1.1
Report no³: FO34799

Zonal summary

Zone	Lumens	%Luminaire
0-30	1885	63.9%
0-40	2715	92.1%
0-60	2942	99.7%
0-90	2949	100.0%

Angle	Mean CP	Lumens
0	2016	
5	2054	199
10	2155	
15	2339	659
20	2398	
25	2282	1026
30	1901	
35	1348	830
40	772	
45	222	217
50	19	
55	10	9
60	6	
65	4	4
70	3	
75	2	2
80	1	
85	1	1
90	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	81	5.5'
6'	56	6.6'
7'	41	7.7'
8'	32	8.8'
9'	25	9.9'

* 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'	133.4	1.61
6'	87.6	1.06
7'	62.5	0.76
8'	52.1	0.63
9'	41.7	0.50

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%																
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100	106	106	100	93	0
1	113	110	108	105	108	104	104	101	101	99	99	94	99	99	94	89	
2	107	102	98	94	101	93	97	91	94	89	89	86	94	89	86	84	
3	102	95	90	85	93	85	91	83	88	82	82	79	88	82	79	74	
4	96	88	82	78	87	77	85	76	83	75	75	73	83	75	73	69	
5	91	82	76	71	81	71	79	70	77	70	70	67	77	70	67	63	
6	86	76	70	65	75	65	74	65	72	64	64	62	72	64	62	59	
7	81	71	65	60	70	60	69	60	68	59	59	58	68	59	58	55	
8	77	67	60	56	66	56	65	55	64	55	55	54	64	55	54	51	
9	73	62	56	52	62	52	61	52	60	51	51	50	60	51	50	47	
10	69	58	52	48	58	48	57	48	56	48	48	46	56	48	46	43	

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3. 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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