



**Calculite LED 2" Cylinders** feature industry leading visual comfort, excellent uniform illumination over time, and installation flexibility. Downlight, Wall Wash, Adjustable Accent and Direct/Indirect configurations provide flexibility to accentuate ambiance for office, retail, and hospitality applications.

**Ordering check list** (x=needed for complete luminaire configuration)

Catalog Prefix	Mounting	Style	Fixture+	Reflector+	Optics+	Stem Kit Accessories
C2CPC(S/M/L)DL	Pendant Cable	Downlight	X	X		
C2CPSA	Pendant Stem	Adj Accent	X		X	(36" max)
C2CSA	Surface	Adj Accent	X		X	
C2CPSDL	Pendant Stem	Downlight	X	X		X
C2CPSWW	Pendant Stem	Wall Wash	X			X
C2CSDL	Surface	Downlight	X	X		
C2CWDL	Wall	Downlight	X	X		
C2CSWW	Surface	Wall Wash	X			
C2CWWW	Wall	Wall Wash	X			
C2CWUDW	Wall	Up/Down Wall Wash	X			
C2CWUD	Wall	Up/Down	X	X (2 needed)		

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

## Fixture

example: C2CPSA10940Z10UA

Series	Mounting	Style	Lumens	CRI/CCT	Dimming/Voltage	Finish
<b>C2C</b>						
C2C Calculite 2" Cylinder	PCS Pendant w/Cable 6' power/cord <sup>4</sup> PCM Pendant w/Cable 12' power/cord <sup>4</sup> PCL Pendant w/Cable 20' power/cord <sup>4</sup>	DL Downlight <sup>2</sup>	08 780lm	9D2W 90CRI/3000K-1800K	Z10U 0-10V 1% / Unv (120/277V) ELV1 ELV (120V) / Unv (120/277V) L01U Lutron PEQ EcoSystem 0.1% / Unv (120/277V)	A Aluminum B Black (matte) W White (matte) RAL RAL Color <sup>5</sup>
			07 700lm 10 1000lm	927 90CRI/2700K 930 90CRI/3000K 935 90CRI/3500K 940 90CRI/4000K		
	PS Pendant w/Stem <sup>1</sup> S Surface	A Adjustable Accent (needs to be ordered with Optics)	07 700lm 10 1000lm	927 90CRI/2700K 930 90CRI/3000K 935 90CRI/3500K 940 90CRI/4000K	Z10U 0-10V 1% / Unv (120/277V) ELV1 ELV (120V) / Unv (120/277V) L01U Lutron PEQ EcoSystem 0.1% / Unv (120/277V)	A Aluminum B Black (matte) W White (matte) RAL RAL Color <sup>5</sup>
	PS Pendant w/Stem <sup>1</sup> S Surface W Wall	DL Downlight <sup>2</sup> WW Wall Wash	08 780lm	9D2W 90CRI/3000K-1800K	Z10U 0-10V 1% / Unv (120/277V) ELV1 ELV (120V) / Unv (120/277V) L01U Lutron PEQ EcoSystem 0.1% / Unv (120/277V)	A Aluminum B Black (matte) W White (matte) RAL RAL Color <sup>5</sup>
			07 700lm 10 1000lm	927 90CRI/2700K 930 90CRI/3000K 935 90CRI/3500K 940 90CRI/4000K		
	W Wall	UDW Up/Down Wall Wash <sup>3</sup> (lumens shown divided equally up and down)	14 1400lm 20 2000lm	927 90CRI/2700K 930 90CRI/3000K 935 90CRI/3500K 940 90CRI/4000K	Z10U 0-10V 1% / Unv (120/277V) ELV1 ELV (120V) / Unv (120/277V)	A Aluminum B Black (matte) W White (matte) RAL RAL Color <sup>5</sup>
			14 1400lm 16 1600lm	927 90CRI/2700K 930 90CRI/3000K 935 90CRI/3500K 940 90CRI/4000K	L01U Lutron PEQ EcoSystem 0.1% / Unv (120/277V)	
	W Wall	UD Direct/ Indirect <sup>2,3</sup> (lumens shown divided equally up and down)	14 1400lm	927 90CRI/2700K 930 90CRI/3000K 935 90CRI/3500K 940 90CRI/4000K	L01U Lutron PEQ EcoSystem 0.1% / Unv (120/277V)	A Aluminum B Black (matte) W White (matte) RAL RAL Color <sup>5</sup>
			15 1500lm		Z10U 0-10V 1% / Unv (120/277V) ELV1 ELV (120V) / Unv (120/277V)	

- Pendant Stem (PS) mountings need to be ordered with a suspended stem kit accessory for pendants.
- Downlight (DL) styles need to be ordered with one Reflector.
- Wall Mount Direct/Indirect (WUD) styles need to be ordered with two Reflectors.
- Nominal lumens shown is total luminaire, equal up and down. Both up and down are controlled on one circuit.
- PCS/PCM/PCL mounting includes cable with matching finish to cylinder. RAL finish will be with a black cable.
- RAL standard colors can be specified upon request. Add RAL standard code to (RALxxxxx).

# C2C Calculite 2" Cylinder (round)

## Pendant, surface and wall mount luminaires

### Downlight Reflector (for downlight and up/downlight)

Series	Beam	Finish
<b>C2CR</b>		
C2CR Calculite 2" Cylinder	W Wide (62°)	CL Clear CC Comfort Clear CD Comfort Clear Diffuse CZ Champagne Bronze WH White (matte) BK Black (anodized) BT Black Textured (painted) WT White Textured (painted)

### Suspended Stem Kit Accessories (for C2CPS pendant)

Series	Length	Finish
<b>CA</b> Calculite Accessory w/Round Canopy Stem Kit <b>CASQ</b> Calculite Accessory w/Square Canopy Stem Kit	36 36 inches 48 48 inches 60 60 inches 72 72 inches	AL Aluminum BK Black (matte) WH White (matte) RAL RAL Color <sup>1</sup> (standard code)

### Accessories (for all configurations)

Series	Finish
<b>CAXTC</b> Calculite Round Conduit Feed Through Canopy Extender <b>CASQXTC</b> Calculite Square Conduit Feed Through Canopy Extender	AL Aluminum BK Black (matte) WH White (matte) RAL RAL Color <sup>1</sup> (standard code)

### Adjustable Accent Optics

(for C2CPSA & C2CSA accents)

Series	Beam
<b>C2CO</b>	
C2CO Calculite 2" Cylinder	SP Spot (23°) NFL Narrow Flood (35°) FL Flood (40°)

1. RAL standard colors can also be specified upon request.  
Add RAL standard code to (RALxxxx).

### Housing

#### Cylinder:

Extruded aluminum

#### Canopy:

Installation onto a 3" or 4"x1.5" octagonal junction box.

#### Surface mounting (C2CS):

Mounts directly to junction box.

#### Pendant cable mounting (C2CPC):

Canopy and field adjustable power cable included.

Cylinder provided complete with canopy kit and 5-wire conductor cable. Cable finish matches that of cylinder for A, B, W finishes, and is black for RAL cylinder finish.

#### Pendant stem mounting (C2CPS):

Order with CASK or CASQSK stem accessory.

#### Pendant power cable:

color to match cylinder finish (A, B, W). Black (BK) cable color for RAL finishes unless otherwise specified by customer.

#### Wall mounting (C2CW):

Pre-attached hardware allows for simple installation into wall mounted junction box.

### Drivers

**Z10U:** 0-10V 1% / Universal (120/277V)

**ELV1:** Electronic low voltage (120V ELV dimming) / Universal (120/277V)

**L01U:** Lutron PEQ EcoSystem (Dim to 0.1%) / Universal (120/277V), Lutron Hi-lume Premier 0.1% EcoSystem Small Form Factor LED Driver with Soft-On, Fade to Black Dimming Technology

### Optical systems

#### Downlight & Direct/Indirect:

True 50° physical cutoff and 45° reflected cutoff.

#### Wall Wash:

Polycarbonate TIR lens provides uniform distribution on the wall with minimal gap between luminaire and wall.

#### 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.

### Lumen packages

**Lumen Maintenance:** Predicted 70% lumen maintenance at 64,000 hrs.

**Direct/Indirect:** Can be ordered with different up and down lumen outputs through Special Order Process. Wall mount nominal lumens are total for luminaire divided up and down, and controlled on one circuit.

### Canopy Extender Accessories

Round (CAXTC) and square (CASQXTC) canopy extenders are available to accommodate direct conduit feed. Covers conduit connector (by others) for finished look. Specify finish per ordering matrix above. Use with standard 3" or 4"x1.5" octagonal junction box (by others). Canopy extenders may be used with all mounting types, and cable or stem suspended. See page 8 for dimensions and illustrations.

### Pendant accessories

**Stem mounting kit accessory:** Steel stem, 0.375" diameter (1/8" National Pipe Thread). 5-wire conductor cable runs alongside of stem for power and dimming. Magnetic attachment of canopy to junction box provides clean look free of hardware. Self-aligning swivel mounting system ensures cylinder hangs straight down. Stem can be cut in field for length adjustment (1/8" drill bit required for through hole).

### Energy Star exceptions

- For Downlights (DL), only Clear (CL) and Comfort Clear (CC) finishes are ENERGY STAR® certified.
- Wall mount up/down (WUD, WUDW) models are not certified.
- Lutron driver options are not ENERGY STAR® certified.

### Labels and Listings

- cULus listed for damp locations
- ENERGY STAR® certified
- RoHS certified

### Warranty



5 year limited warranty  
Visit [Signify.com/warranties](https://www.signify.com/warranties) for more information on Signify's standard 5-year limited warranty on complete luminaire systems.

# C2C Calculite 2" Cylinder (round)

Pendant, surface and wall mount luminaires

## Electrical

Series	Dimming	Lumens	Voltage	Amps	Wattage
C2CPC_DL C2CPSDL C2CSDL C2CSDL C2CSDL C2CPSWW C2CSWW C2CWWW	ELV	600lm	120V	0.07	9
		1000lm		0.12	14
		600lm	277V	0.04	9
		1000lm		0.07	14
	0-10V	600lm	120V	0.07	10
		1000lm		0.13	15.5
		600lm	277V	0.05	10
		1000lm		0.08	15.5
	Lutron	600lm	120V	0.08	10
		1000lm		0.13	16
		600lm	277V	0.06	10
		1000lm		0.08	16
C2CPC_DL_9D2W C2CPSDL_9D2W C2CSDL_9D2W C2CSDL_9D2W	ELV	800lm	120V	0.11	14
			277V	0.07	14
	0-10V	800lm	120V	0.12	15
			277V	0.08	15
	Lutron	800lm	120V	0.13	16
			277V	0.08	16
C2CWUD	ELV	800lm	120V	0.17	21
			277V	0.09	21
	0-10V	800lm	120V	0.16	22
			277V	0.1	22
	Lutron	600lm	120V	0.15	19
			277V	0.09	19
C2CWUDW	ELV	600lm	120V	0.1	13
			277V	0.05	13
		1000lm	120V	0.17	21
			277V	0.09	21
	0-10V	600lm	120V	0.12	14
			277V	0.06	14
		1000lm	120V	0.09	22
			277V	0.1	22
	Lutron	800lm	120V	0.14	17
			277V	0.09	17

Series	Dimming	Lumens	Voltage	Amps	Wattage
C2CPSA C2CSA	ELV	600lm	120V	0.07	9
			277V	0.04	9
		1000lm	120V	0.11	14
			277V	0.07	14
	0-10V	600lm	120V	0.08	10
			277V	0.05	10
		1000lm	120V	0.12	15
			277V	0.08	15
	Lutron	600lm	120V	0.08	10
			277V	0.04	10
		1000lm	120V	0.13	16
			277V	0.08	16

## ELV

Input	Brand	Dimming Type	Model No.	Minimum dimming
120V	Lutron	Trailing edge	DVELV-303P	2%
			NTELV-600	2%
			MAELV-600	2%
			SELV-300P	2%
		Leading edge	DV-600P	2%
			DVLV-600P	2%
			NFTU-5A	2%
			CTCL-153P	2%
			GL-600H	2%
			S-600P	2%
			S-600P	2%
	Leviton	-	IPE04	2%
	Philips	-	CP400RPC120	2%

## Lutron

Input	Brand	Model No.	Minimum dimming
120V	Lutron	QSN-1ECO-S	L01U (0.1%) L1U (1%)
		QSN-2ECO-S	
		QSGRJ-_E (wireless)	
		QSGR-_E (wireless)	
		QP2-_ _ 2C	
		QP2-_ _ 4C	
		QP2-_ _ 6C	
		QP2-_ _ 8C	
		LQSE-2ECO-D	
	120/277V	RMJ-ECO32-DV-B	L01U (0.1%) L1U (1%)
		FCJ/FCJS-ECO1	

## 0-10V

Input	Brand	Model No.	Minimum dimming
120/277V	Lutron	SR1200ZTUNV	1%
	Leviton	IP7 series	1%
	Philips	SR1200ZTUNV	1%

# C2C Calculite 2" Cylinder (round)

Pendant, surface and wall mount luminaires

## Reflector Finishes



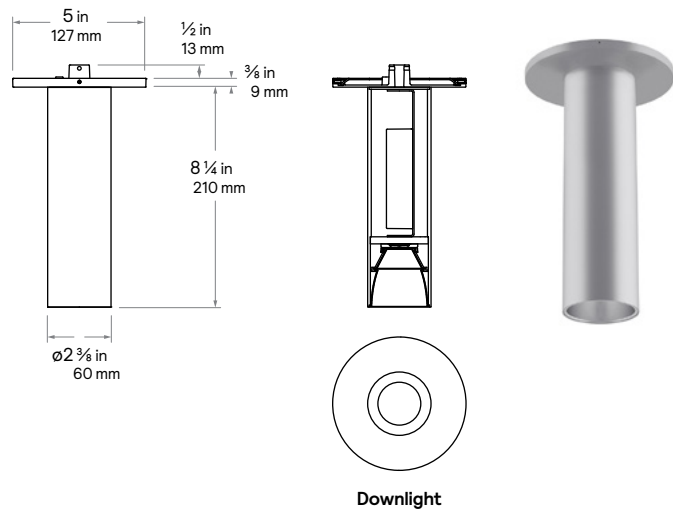
1. **Specular clear (CL):** Most specular and most efficient finish, delivers maximum photometric performance but can produce a mirror image effect of the interior space.
2. **Comfort clear (CC):** Semi-specular finish that softens the light at the source of the reflector and creates a subtle, even luminance from the reflector cone.
3. **Comfort clear diffuse (CD):** Slightly diffuse clear finish, that eliminates iridescence and reduces the mirror image effect inherent with specular finishes.

4. **White (WH):** Brightest illuminated aperture (matte white) and provides the smoothest transition to most ceilings when off.
5. **Black (BK):** Specular finish (anodized) that provides the lowest aperture brightness possible and significantly reduces source identification in a ceiling.
6. **Champagne bronze (CZ):** Semi-specular finish that softens light at the source of the reflector while providing a warmer reflector appearance (slightly warmer).

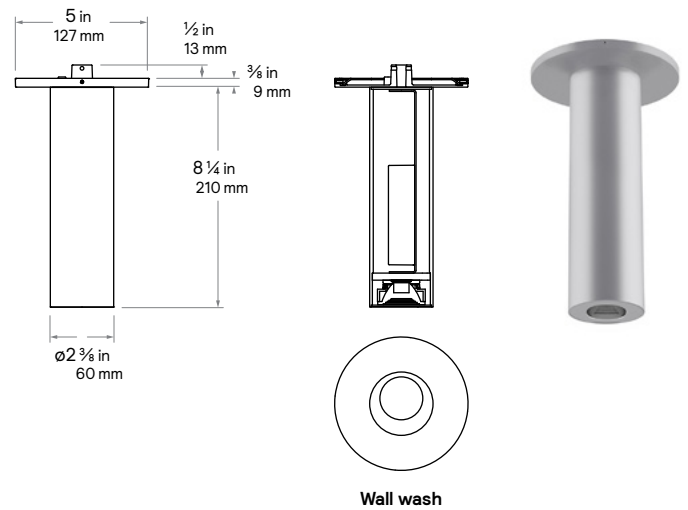
# C2C Calculite 2" Cylinder (round)

Pendant, surface and wall mount luminaires

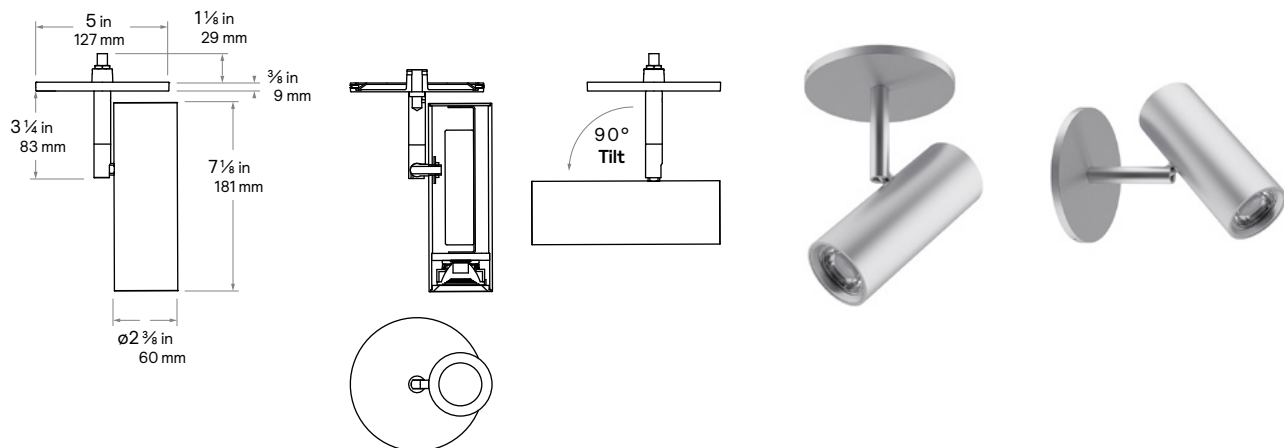
## Downlight Surface Mount



## Wall Wash Surface Mount



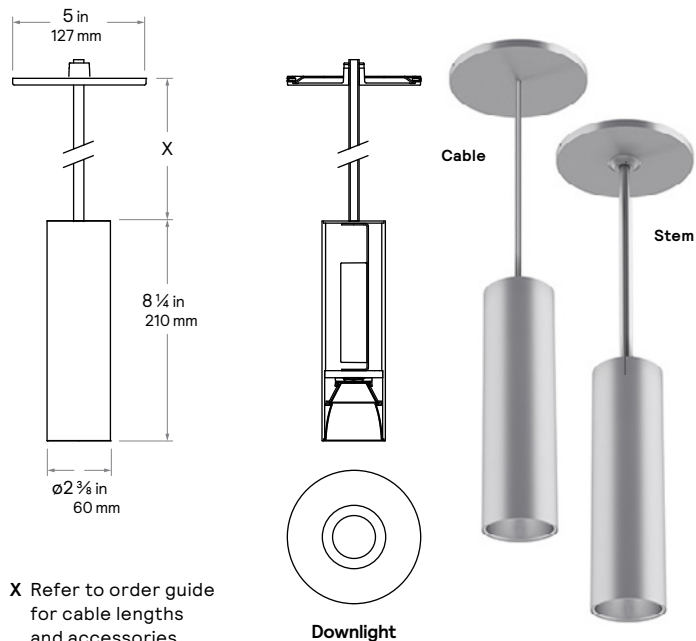
## Adjustable Accent Surface Mount (Ceiling or wall)



# C2C Calculite 2" Cylinder (round)

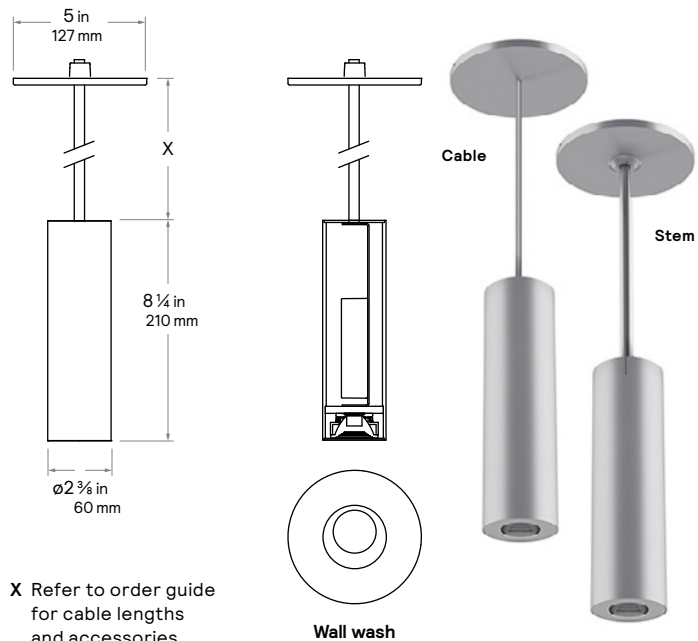
Pendant, surface and wall mount luminaires

## Downlight Pendant Mount (with cable or stem)



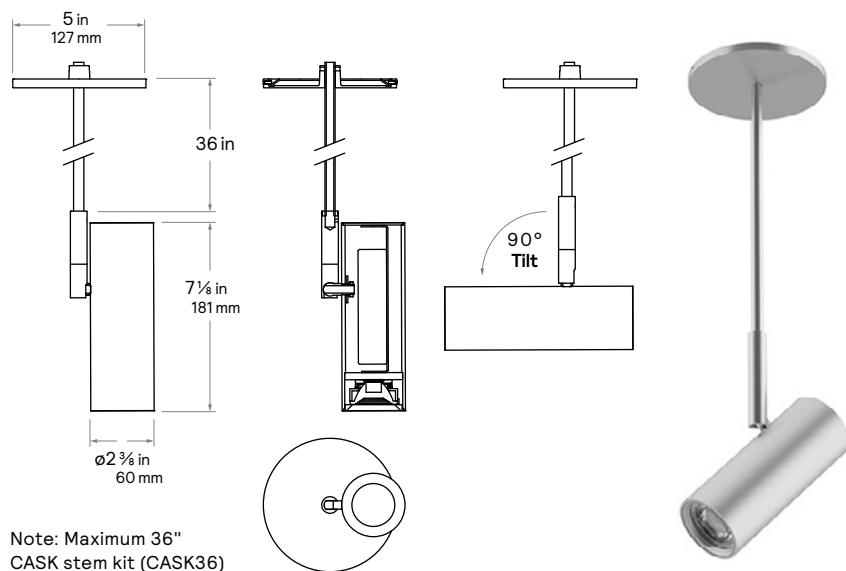
X Refer to order guide for cable lengths and accessories for stem lengths.

## Wall Wash Pendant Mount (with cable or stem)

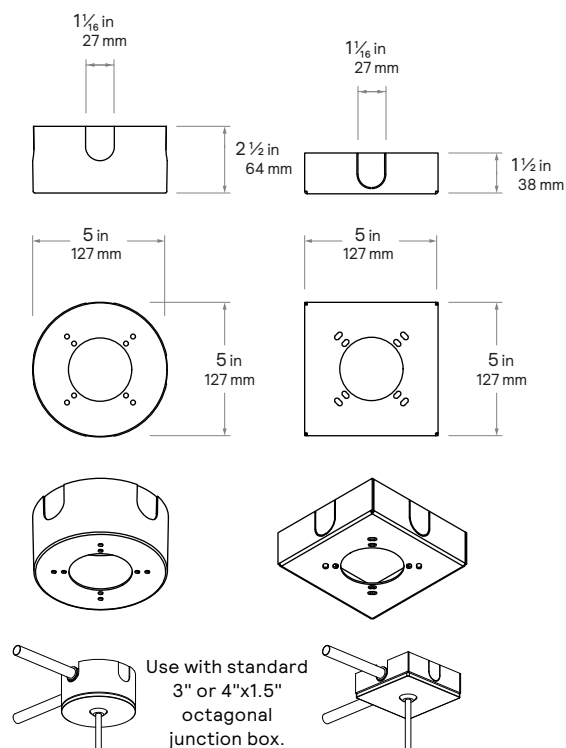


X Refer to order guide for cable lengths and accessories for stem lengths.

## Adjustable Accent Pendant Mount



## Canopy Extender

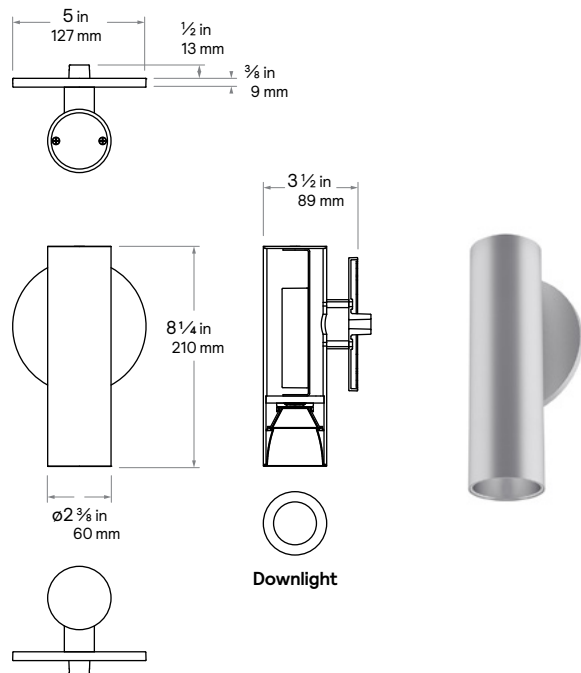


Pre-fabricated knock outs accommodate straight through or 90deg conduit direction. Standard cable and pendant canopies attach directly to the extender box as illustrated above.

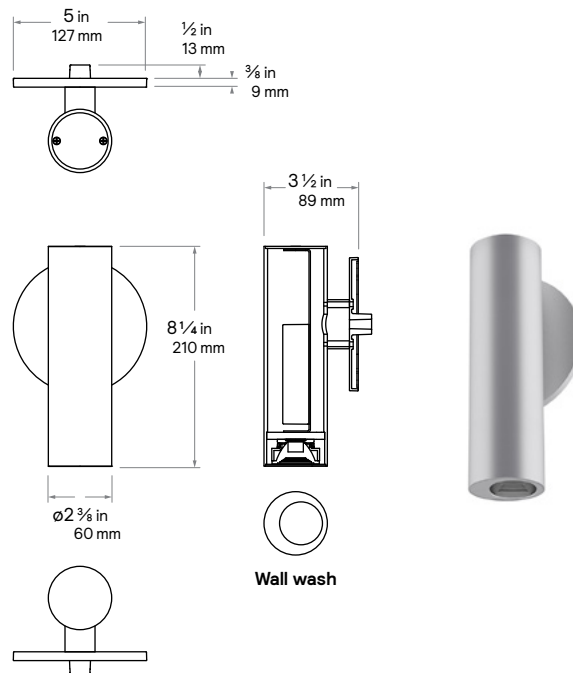
# C2C Calculite 2" Cylinder (round)

Pendant, surface and wall mount luminaires

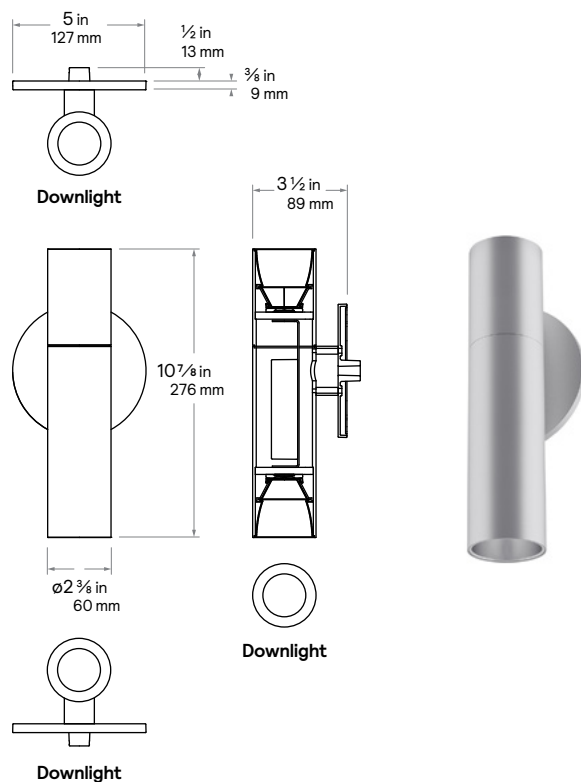
## Downlight Wall Mount



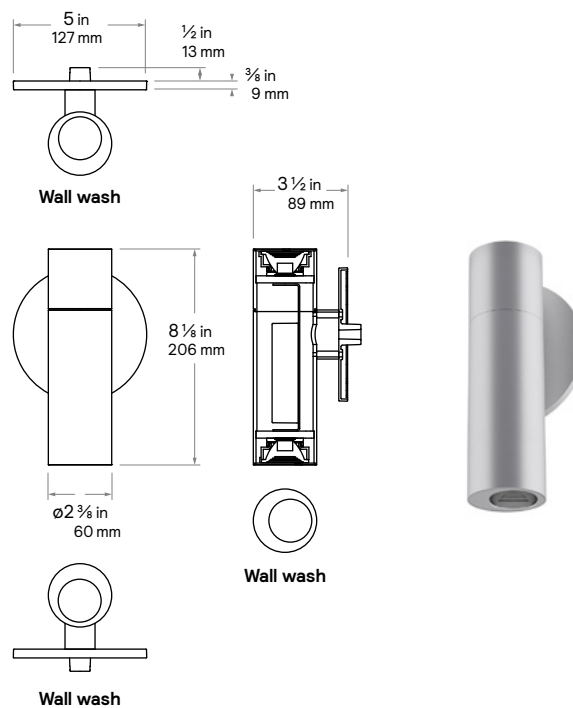
## Wall Wash Wall Mount



## Up/Downlight Wall Mount



## Up/Down Wall Wash Wall Mount

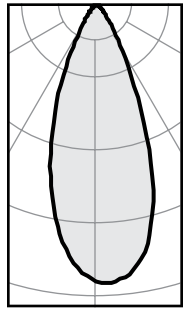


# C2C Calculite 2" Cylinder (round)

Pendant, surface and wall mount luminaires

## Downlight, 1000lm engine, 76.0 lm/W at 13W

### Candela Curve



Fixture: **C2CSD10935ELV1B**  
Reflector: **C2CRWCL**

Output lumens: 988 lms  
Input watts: 13 W\*  
CRI: 90 min  
CCT<sup>1</sup>: 3500K  
Spacing Crit.: 0.76

\*Wattage controlled to within 5%.

### Zonal summary

Zone	Lumens	%Luminaire
0-30	561	56.8%
0-40	772	78.1%
0-60	984	99.6%
0-90	988	100.0%

Angle	MeanCP	Lumens
0	1106	
5	1091	
10	1006	99
15	864	
20	684	230
25	519	
30	405	232
35	344	
40	302	210
45	260	
50	145	179
55	19	
60	3	33
65	2	
70	1	2
75	0	
80	0	1
85	0	
90	0	

### Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	44	3.8'
6'	31	4.6'
7'	23	5.3'
8'	17	6.1'
9'	14	6.8'

\* 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'	44.0	0.58
6'	29.0	0.38
7'	21.0	0.27
8'	17.0	0.23
9'	14.0	0.18

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Efficacy: **76.0lm/w**  
Report<sup>2</sup>: LRQB2261-21

### Adjustment Factors

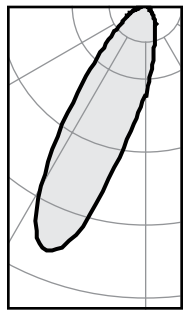
Finish	CRI/CCT
CL = 100% WT = 85%	90CRI 4000K = 104%
CC = 97% WH = 82%	90CRI 3500K = 100%
CD = 86% BK = 50%	90CRI 3000K = 96%
CZ = 64% BT = 46%	90CRI 2700K = 90%

### Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	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
	1	113	110	107	105	108	103	104	100	100	97	92
	2	107	101	97	93	100	92	96	90	93	88	85
	3	101	94	88	84	92	83	89	82	87	80	77
	4	95	86	80	76	85	75	83	74	81	73	71
	5	89	80	74	69	79	69	77	68	76	67	65
	6	84	74	68	63	74	63	72	63	71	62	60
	7	80	69	63	58	69	58	67	58	66	57	56
	8	75	65	58	54	64	54	63	54	62	53	52
	9	71	61	54	50	60	50	59	50	58	50	48
10	68	57	51	47	57	47	56	47	55	46	45	

## Wall Wash, 1000lm engine, 85.2 lm/W at 13W

### Candela Curve



Fixture: **C2CSWW10935**

Output lumens: 1107 lms  
Input watts: 13 W\*  
CRI: 90 min  
CCT<sup>1</sup>: 3500K  
Candela: 1802

\*Wattage controlled to within 5%.

### Multiple unit data

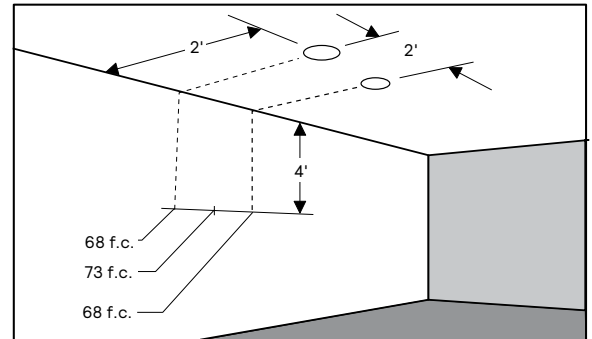
Footcandles on wall

	2' from wall	2' on ctr.
1	28	26
2	55	53
3	74	77
4	68	73
5	49	53
6	34	36
7	23	24
8	16	17
9	11	12
10	9	10
11	7	8
12	5	6

### Multiple unit data

Footcandles on wall

	2' from wall	3' on ctr.
1	19	16
2	40	35
3	51	47
4	49	47
5	37	37
6	26	26
7	18	19
8	13	13
9	10	10
10	7	7
11	6	6
12	5	5



Efficacy: **85.2 lm/w**  
Report<sup>2</sup>: LRQB2261-28B

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



# C2C    Calculite 2" Cylinder (round)

Pendant, surface and wall mount luminaires

Downlight (Wall Mount), 1000lm engine, 95.7 lm/W at 13W

</

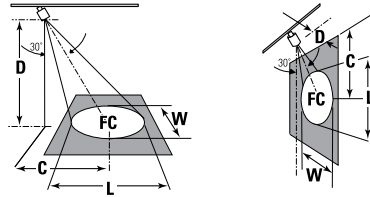
# C2C Calculite 2" Cylinder (round)

## Pendant, surface and wall mount luminaires

### Aiming angles

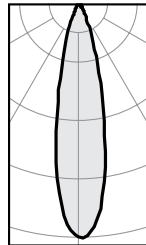
L and W are the outer points where the candle power drops to 50% of the maximum. FC are the initial footcandles at the center of the beam. Data shown is for 3000K, use the table on the right for CRI/CCT adjustment factors.

FC Footcandles  
L Beam length  
W Beam Width  
D Distance  
A Aiming Angle  
C Distance to center beam  
CBCP Center Beam Candlepower



### Adjustment Factors

Finish		CRI / CCT
CL = 100%	WT = 85%	90CRI 4000K = 104%
CC = 97%	WH = 82%	90CRI 3500K = 100%
CD = 86%	BK = 50%	90CRI 3000K = 96%
CZ = 64%	BT = 46%	90CRI 2700K = 90%



Fixture: **C2CSA10935**  
Reflector: **C2COS**  
Output lumens: 1131lms  
Input watts: 13W  
CRI: 90 min  
CCT<sup>1</sup>: 3500K  
CBCP: 4999 cd  
Beam Angle: 23°  
**Efficacy: 87.0lm/w**  
Report<sup>2</sup>: LRQB2261-30

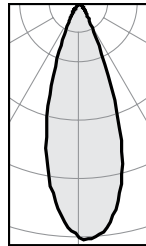
### Spot, 1000lm engine, 87.0 lm/W at 13W

#### 30° Horizontal Aiming

Distance		Beam		
D	C	F.C.	L	W
6	3.5	90	3.3	2.8
8	4.6	51	4.4	3.8
10	5.8	32	5.5	4.7
12	6.9	23	6.6	5.6

#### 30° Vertical Aiming

Distance		Beam		
D	C	F.C.	L	W
2	3.5	156	3.7	1.6
3	5.2	69	5.6	2.4
4	6.9	39	7.4	3.3
5	8.7	25	9.3	4.1



Fixture: **C2CSA10935**  
Reflector: **C2COS**  
Output lumens: 1223lms  
Input watts: 13W  
CRI: 90 min  
CCT<sup>1</sup>: 3500K  
CBCP: 3015 cd  
Beam Angle: 35°  
**Efficacy: 94.1lm/w**  
Report<sup>2</sup>: LRQB2261-31

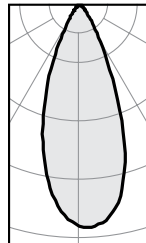
### Narrow Flood, 1000lm engine, 94.1 lm/W at 13W

#### 30° Horizontal Aiming

Distance		Beam		
D	C	F.C.	L	W
6	3.5	54	5.2	4.4
8	4.6	31	7.0	5.8
10	5.8	20	8.7	7.3
12	6.9	14	10.4	8.7

#### 30° Vertical Aiming

Distance		Beam		
D	C	F.C.	L	W
2	3.5	94	7.2	2.5
3	5.2	42	10.8	3.8
4	6.9	24	14.4	5.0
5	8.7	15	18.0	6.3



Fixture: **C2CSA10935**  
Reflector: **C2COF**  
Output lumens: 1177lms  
Input watts: 13W  
CRI: 90 min  
CCT<sup>1</sup>: 3500K  
CBCP: 2278 cd  
Beam Angle: 40°  
**Efficacy: 90.5lm/w**  
Report<sup>2</sup>: LRQB2261

### Flood, 1000lm engine, 90.5 lm/W at 13W

#### 30° Horizontal Aiming

Distance		Beam		
D	C	F.C.	L	W
6	3.5	41	6.1	5.0
8	4.6	23	8.1	6.7
10	5.8	15	10.2	8.4
12	6.9	10	12.2	10.1

#### 30° Vertical Aiming

Distance		Beam		
D	C	F.C.	L	W
2	3.5	71	9.7	2.9
3	5.2	32	14.5	4.4
4	6.9	18	19.3	5.8
5	8.7	11	24.2	7.3

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