LIGHTOLIER

Downlighting

Calculite LED 4" gen 3

C4 Cylinder



Calculite LED 4" generation 3 provides an excellent coupling of lighting performance, quality of light, and visual aesthetic. Industry leading visual comfort and uniform illumination make it an ideal choice for office, institution, healthcare, public, and retail applications.

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

Fixture

Example: C4SDL15935MZ10UCCW

Series	Mounts	Styles	Lums	CRI/CCT	Beams	Dimming	Dim opts	Voltage
C4								
C4 Calculite LED 4"	**S** Surface **W** Wall **P** Pendant[1,8]	**DL** Downlight **WW** Wall Wash[2] **DW** Double Wall Wash[2]	**05** 500 **10** 1000 **15** 1500 **20** 2000 **25** 2500 **30** 3000	**927** 90CRI/2700K **930** 90CRI/3000K **935** 90CRI/3500K **940** 90CRI/4000K **950** 90CRI/5000K[3] **D2W** 90CRI/3000K to 1800K[4] (dim-to-warm)	**N** Narrow[4] **M** Medium[4] **W** Wide[2]	**Z10** 0-10V 1%	**D2O** Dim to Off	**U** 120V/277V **3** 347V (Z10 only)
						L01 Lutron PEQ0 EcoSystem 0.1% (up to 2500lm) **L1** Lutron LDE1 EcoSystem (500lm not available)		**U** 120V/277V
						D DALI 0.1%[5]	**LIN** Linear	**U** 120V/277V
						DMX Digital Multiplexing w/RDM 0.1%[5,6] **SOL** 0-10V 0.1%[5]	**LIN** Linear **SQR** Square	**U** 120V/277V
						E Forward & Reverse Phase (up to 2500lm)		**1** 120V
						RA Integral Interact-enabled RF sensor[5] (enables wireless connected lighting control)		**U** 120V/277V

Reflector finish	Cylinder finish	Buy American
CL Specular clear **CC** Comfort clear **CD** Comfort clear diffuse **CZ** Champagne bronze **BK** Black (matte)	**W** White (matte) **B** Black (matte) **A** Aluminum **RAL** RAL Color[7] (standard code)	**BAC** Meets the requirements of the Buy American Act of 1933 (BAA)[10,11] **BABAF** Meets the requirements of the Build America Buy America Act for projects funded through FHWA that are obligated before October 1, 2026, and meets the Buy America preferences for FTA[10,11]

Pendant accessories (field adjustable)[1]

Example: CASK36BK

Series	Mounts	Length	Finish	Options
CA				
CA Calculite Accessory[8]	**SK** Stem Kit	**36** 36 inches **48** 48 inches **60** 60 inches **72** 72 inches	**WH** White (matte) **BK** Black (matte) **AL** Aluminum **RAL** RAL Color[6] (standard code)	**-** None **X** DMX dimming only
	CK Cable Kit[6] (RAL canopy kit will be with black cord)	**10** 120 inches	(same four color options as above)	**-** None

Accessories (not currently BAA-compliant)

SWCS	Interact Ready SWCS Controller New or remodel contruction, integral RADIO or remote (recessed or surface) sensing with 0-10v luminaires. See SWCS spec sheet for more details[9]
S4567	Pendant-to-Surface 4" conversion kit

See page 2 for footnotes

BABA BAA Declare. c UL us LISTED WET LOCATION RoHS COMPLIANT mesoOptics interact ready.

C4 Calculite LED 4" gen 3

Cylinder

Footnotes

1. Pendant (P) option needs to be ordered with an accessory.
2. Wall Wash (WW) and Double Wall Wash (DW) are only available with Wide (W) beam.
3. Consult factory for 5000K CCT (50) with narrow (N) beam.
4. Dim-to-warm (D2W) available only with Z10 dimming up to 2000lm. Narrow (N) and medium (M) beams only. Remote driver configuration.
5. Requires external mount driver available only for surface (S) and pendant (P) mounts. See dimensions on page 3 and details on page 2.
6. Digital Multiplex (DMX) dimming is not compatible with the Cable Kit (CK) accessory.
7. RAL standard colors can be specified upon request. Add RAL standard code to (RALxxxxx).
8. Not for use with Z103 347V option. Consult factory.
9. Requires IRT9015 IR remote & Interact Pro App for commissioning.
10. BAA and compliance requires that BAC option be selected for each of frame, engine, and trim. BABA compliance requires that BABAF option be selected for each of frame, engine, and trim. Frame, engine and trim will be shipped together as a single product. Accessories (optional) are not currently BAA- or BABA-compliant.
11. Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states,

Cylinder

Cylinder housing: Cast aluminum, available for installation onto a 3" or 4" junction box, stem, cable, or wall mounted.

Surface mounting (C4S): Mounts directly to junction box. Listed for wet location use.

Pendant mounting (C4P): Order with the stem or cable kit. Listed for damp location use.

Wall Mounting (C4W): Pre-attached hardware allows for simple installation into wall mounted junction box. Listed for damp location use.

Pendant accessories (damp location rated)

Stem mounting kit: 0.375" diameter steel stem (1/8" National Pipe Thread, can be field cut to required length. 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. A 1/8" hole is required to reconnect the pendant stem to the canopy swivel. Swivel accommodates max 45° pitch.

Cable mounting kit: 10' long steel cable with 5-wire cable for power and dimming. Hardware free canopy for clean aesthetics.

Remote drivers

- Available with surface and pendant mounts only
- Requires new construction or accessibility from above for initial installation
- Mains/control wiring in frame junction box
- Connection to light engine in secondary junction box
- Remote driver is accessible from below upon removal of the cylinder

Dimming drivers

All configurations are FCC Class A unless otherwise specified.

- Advance 0-10V 1% (Z10), logarithmic curve is standard, specify D2O for factory-set dim-to-off function, consult factory for linear dimming curve.
- EldoLED SOLODrive (SOL) 0-10V 0.1%
- Lutron PEQ0 (L01) Hi-Lume Premier EcoSystem 0.1%
- Lutron LDE1 (L1) EcoSystem 1%
- Electronic low voltage (E) - forward or reverse phase dimming, remodel and AirSeal IC Shallow are FCC Class B
- DALI (D) - DT6 DALI 0.1%
- DMX (DMX) - Digital multiplexing with RDM 0.1%
- Z10, E, and L01 drivers are integral to cylinder, all others are remote

Dimming options:

The following are factory-set for the SOL, D, and DMX driver options (ex. DMXLIN):

- SOL/D/DMX: Logarithmic (-) standard
- SOL/D/DMX: Linear (LIN)
- SOL/DMX: Square (SQR)
- Dim to Warm (D2W): option changes CCT from 3000-1800K gradually as it dims. Use with Z10 dimming only. Fixture-to-fixture consistency of ≤3SDCM at 2700K & 3000K, and ≤5SDCM at 1800K.

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.

MesoOptics PET optical diffusion film: Provides a smooth beam shape and mitigates color over angle with optimized luminaire efficiency. Mitigates LED pixilation.

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.

ENERGY STAR® exceptions

- 90 CRI configurations
- Champagne Bronze and Black finishes
- EldoLED Solo drivers

Labels and Listings

- cULus listed for wet locations (surface mount)
- cULus listed for damp locations (wall and pendant mount)
- RoHS certified
- Red List Declare label certified, ID SIG-0018 (View full Declare label)

Warranty

5 year limited warranty

Visit Signify.com/warranties for more information on Signify's standard 5-year limited warranty on complete luminaire systems.

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Polished Reflectors

Shown as round reflectors but represent the finish of Calculite square reflectors.



Specular clear (CL): Most specular and most efficient finish, delivers maximum photometric performance but can produce a mirror image effect of the interior space.



Champagne bronze (CZ): Semi-specular finish that softens light at the source of the reflector while providing a warmer reflector appearance (slightly warmer).



White (WH): (matte) Brightest illuminated aperture and provides the smoothest transition to most ceilings when off (white is only available with a white flange).



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.



Comfort clear diffuse (CD): Slightly diffuse clear finish, that eliminates iridescence and reduces the mirror image effect inherent with specular finishes.



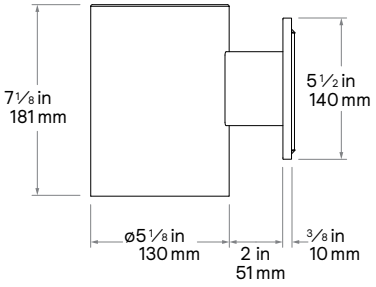
Black (BK): (anodized) Specular finish that provides the lowest aperture brightness possible and significantly reduces source identification in a ceiling.

C4 Calculite LED 4" gen 3

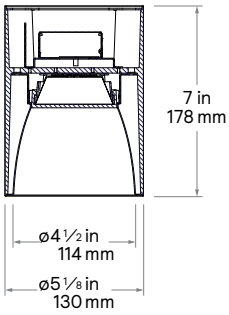
Cylinder

Dimensions

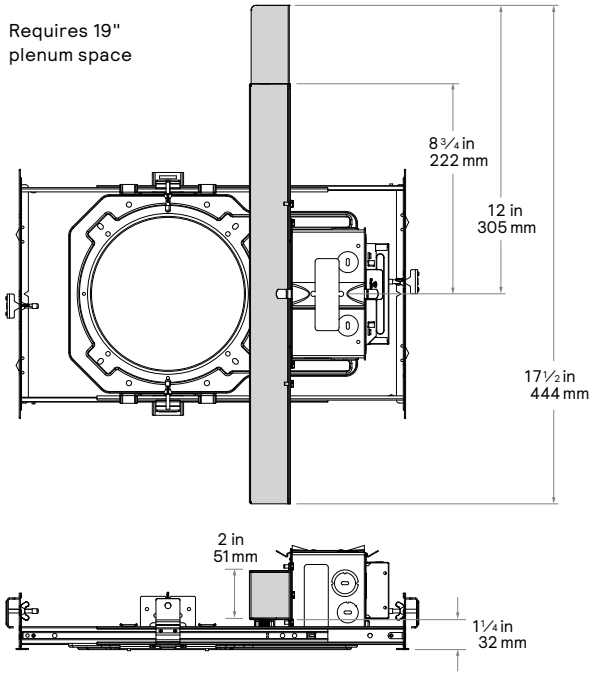
Wall mount



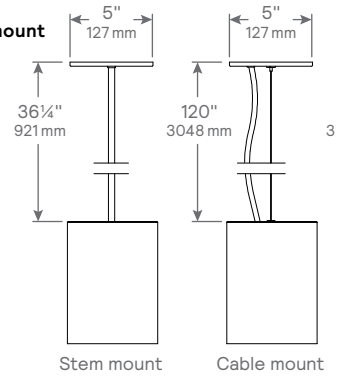
Surface mount



Surface/Pendant Remote Driver (driver assembly recessed into ceiling)



Pendant mount



Order the Pendant mount cylinder and select the stem or cable kit.

Electrical – Narrow

Light engine	Input Volts	Input Freq.	Input Current	Drive Current	Input Power	LED Power	THD Factor @ Max Load	Power Factor @ Max Load
500lm	120V	50/60Hz	0.050A	0.15A	6.0W	4.8W	<10%	>0.9
	277V	50/60Hz	0.023A	0.15A	6.3W	4.8W	<30%	>0.9
	347V	50/60Hz	0.020A	0.15A	7.0W	4.8W	N/A	>0.9
1000lm	120V	50/60Hz	0.072A	0.22A	8.7W	7.1W	<10%	>0.9
	277V	50/60Hz	0.032A	0.22A	8.9W	7.1W	<20%	>0.9
	347V	50/60Hz	0.029A	0.22A	10.1W	7.1W	<30%	>0.9
1500lm	120V	50/60Hz	0.108A	0.33A	12.9W	10.8W	<10%	>0.9
	277V	50/60Hz	0.047A	0.33A	13.0W	10.8W	<10%	>0.9
	347V	50/60Hz	0.043A	0.33A	14.8W	10.8W	<25%	>0.9
2000lm	120V	50/60Hz	0.147A	0.45A	17.6W	14.9W	<10%	>0.9
	277V	50/60Hz	0.064A	0.45A	17.7W	14.9W	<10%	>0.9
	347V	50/60Hz	0.056A	0.45A	19.6W	14.9W	<20%	>0.9
2500lm	120V	50/60Hz	0.180A	0.55A	21.6W	18.3W	<10%	>0.9
	277V	50/60Hz	0.078A	0.55A	21.7W	18.3W	<10%	>0.9
	347V	50/60Hz	0.066A	0.55A	22.9W	18.3W	<20%	>0.9
3000lm	120V	50/60Hz	0.231A	0.70A	27.7W	23.7W	<10%	>0.9
	277V	50/60Hz	0.100A	0.70A	27.6W	23.7W	<10%	>0.9
	347V	50/60Hz	0.083A	0.70A	28.9W	23.7W	<15%	>0.9

Electrical – Medium & Wide

Light engine	Input Volts	Input Freq.	Input Current	Drive Current	Input Power	LED Power	THD Factor @ Max Load	Power Factor @ Max Load
500lm	120V	50/60Hz	0.051A	0.15A	6.1W	4.8W	<10%	>0.9
	277V	50/60Hz	0.023A	0.15A	6.4W	4.8W	<30%	>0.9
	347V	50/60Hz	0.020A	0.15A	7.1W	4.8W	N/A	>0.9
1000lm	120V	50/60Hz	0.084A	0.25A	10.1W	8.3W	<10%	>0.9
	277V	50/60Hz	0.037A	0.25A	10.3W	8.3W	<10%	>0.9
	347V	50/60Hz	0.034A	0.25A	11.7W	8.3W	<30%	>0.9
1500lm	120V	50/60Hz	0.117A	0.36A	14.0W	11.8W	<10%	>0.9
	277V	50/60Hz	0.051A	0.36A	14.1W	11.8W	<10%	>0.9
	347V	50/60Hz	0.046A	0.36A	16.0W	11.8W	<25%	>0.9
2000lm	120V	50/60Hz	0.153A	0.47A	18.4W	15.5W	<10%	>0.9
	277V	50/60Hz	0.067A	0.47A	18.5W	15.5W	<10%	>0.9
	347V	50/60Hz	0.059A	0.47A	20.3W	15.5W	<20%	>0.9
2500lm	120V	50/60Hz	0.197A	0.60A	23.6W	20.1W	<10%	>0.9
	277V	50/60Hz	0.085A	0.60A	23.6W	20.1W	<10%	>0.9
	347V	50/60Hz	0.072A	0.60A	24.9W	20.1W	<20%	>0.9
3000lm	120V	50/60Hz	0.247A	0.75A	29.7W	25.5W	<10%	>0.9
	277V	50/60Hz	0.107A	0.75A	29.7W	25.5W	<10%	>0.9
	347V	50/60Hz	0.087A	0.75A	30.4W	25.5W	<15%	>0.9

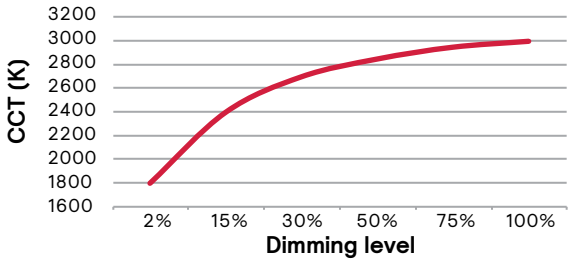
C4 Calculite LED 4" gen 3

Cylinder

Lifetime (TM-21) data

Lumens	Narrow beam	Medium/Wide beam
500lm 1000lm 1500lm	L85 @ 55,000hrs.	L90 @ 60,000hrs.
2000lm	L85 @ 55,000hrs.	L80 @ 60,000hrs.

Dim-to-Warm: CCT vs Dimmed level





AccuRender Technology (CRI 90+)

The right light brings colors to life. Our new AccuRender technology helps ensure colors are rendered more accurately and consistently, while doing so as efficiently as CRI 80 products.



Standard CRI 80
Good color rendering and high efficacy



Standard CRI 90
Better color rendering and low efficacy



AccuRender
Best color rendering, color preference and high efficacy

Enjoy design flexibility

Full range of products and options:

- Available soon in across Lightolier portfolio for application flexibility
- Multiple color temperatures (CCTs) and lumen packages offered

Promote savings

High efficacy, with no penalty:

- Energy efficacy compares well to conventional 80 CRI
- Up to 25% more energy savings vs competitor 90 CRI[1]
- Helps meet Title 24 requirements

Show your true colors

High color rendering:

- True to life colors that help energize your environment and render better flesh tones critical for healthcare hospitality and retail applications.
- R_a up to 94 CRI
  R_9 up to 67 CRI
  G_a up to 99 CRI
  C_9 up to 94 CRI
- R_f up to 92 TM-30
  $R_{f,h1}$ up to 91 TM-30
  R_9 up to 100 TM-30
  $R_{cs,h1}$ up to -5% TM-30

Achieve color balance

Best in class color consistency:

- Promote aesthetic harmony in your space with ≤ 2 SDCM

Round Downlight

Photometric - Downlights with CRI of 90+ & R9 of 50+

Lumen Package	Beam	Flux (lm)	Efficacy (lm/W)	Beam Angle	CBCP	CRI	R9	IES TM-30-18			UGR
								R_f	R_g	$R_{cs,h1}$	
500 lm	Narrow (N)	609	101	39°	1409	90+	50+	91	100	-6%	0
	Medium (M)	625	102	53°	769	90+	50+	91	99	-6%	0
	Wide (W)	570	93	69°	378	90+	50+	91	99	-6%	0
1000 lm	Narrow (N)	905	104	39°	2094	90+	50+	91	100	-6%	0
	Medium (M)	1056	105	53°	1300	90+	50+	91	99	-6%	0
	Wide (W)	963	95	69°	638	90+	50+	91	99	-6%	0
1500 lm	Narrow (N)	1347	101	39°	3118	90+	50+	91	100	-6%	1
	Medium (M)	1510	108	53°	1859	90+	50+	91	99	-6%	2
	Wide (W)	1385	99	69°	917	90+	50+	91	99	-6%	1
2000 lm	Narrow (N)	1778	101	39°	4115	90+	50+	91	100	-6%	2
	Medium (M)	1937	105	53°	2385	90+	50+	91	99	-6%	2
	Wide (W)	1779	97	69°	1178	90+	50+	91	99	-6%	2

Round Wall Wash

Photometric - Downlights with CRI of 90+ & R9 of 50+

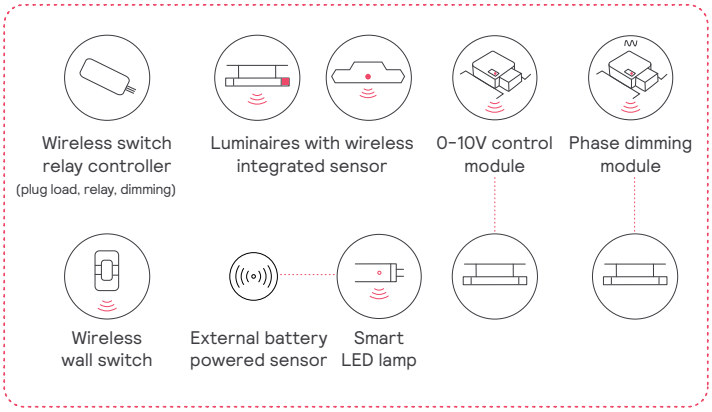
Lumen Package	Beam	Flux (lm)	Efficacy (lm/W)	Beam Angle	CBCP	CRI	R9	IES TM-30-18			UGR
								R_f	R_g	$R_{cs,h1}$	
500 lm	Open (WW)	555	91	–	–	90+	50+	91	99	-6%	10
	Lensed (LW)	396	65	–	–	90+	50+	91	99	-6%	16
1000 lm	Open (WW)	937	93	–	–	90+	50+	91	99	-6%	12
	Lensed (LW)	668	66	–	–	90+	50+	91	99	-6%	18
1500 lm	Open (WW)	1348	96	–	–	90+	50+	91	99	-6%	13
	Lensed (LW)	961	69	–	–	90+	50+	91	99	-6%	19
2000 lm	Open (WW)	1731	94	–	–	90+	50+	91	99	-6%	14
	Lensed (LW)	1234	67	–	–	90+	50+	91	99	-6%	20

C4 Calculite LED 4" gen 3

Cylinder

signify interact

Easy. Effective. Smart.



Meet Interact

A smart, wireless luminaire level lighting control system (LLLC). A complete solution that combines modern and intuitive technologies for easy installation and specification.

- Works with or without gateway
- No IT
- No light point restrictions
- Up to 75% out of the box savings
- Fast & easy
- Code & rebates compliant

Capabilities

- Luminaire integrated occupancy and daylight sensing
- BMS integration
- Human-centric lighting
- Connectivity & insights
- Full Automation*
- Security

*Grouping, zoning, dimming, high-end trimming, scenes, scheduling, manual controls

Benefits

Up to 80% installation savings[1]
Compared to installation costs of wired systems

Up to 5 min faster setup time[2]
Compared to similar wireless systems

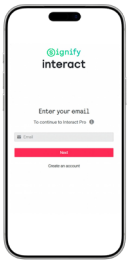
Less than 2 year payback
Implement deep energy-saving stategies and claim utility rebates

1.8x more energy savings
Compared to conventional control systems

Up to 2x utility rebates
Network Interact ready devices and get more utility rebates[3]

1. Versus legacy systems based on installer interviews
2. Based on installer analysis done by Signify for a typical multi-zone space
3. Utility programs across US

Just lights and an App



1. Install the Interact ready fixtures with embedded smart sensor
2. Install the wireless wall switch
3. Configure your setup with the Interact App
4. Leverage the IRT9015 remote accessory to accelerate your setup process
5. Optionally add a gateway for insights and management

Learn more about Interact:

Interact includes an app, a web portal, and a comprehensive range of Interact ready wireless luminaires, lamps, retrofit kits, and control devices like switches and sensors that operate within the same system.

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Controls Options*

Interact radio node for Standalone, Gateway & Gateway + IoT tiers (RA)

- RA sensor option is a connected radio node supporting wireless mesh connectivity.
- Compatible with standalone and gateway modes of Interact.

Interact occupancy & daylight sensor for Standalone, Gateway & Gateway + IoT tiers (CS)

- The CS sensor option is a connected sensor with built-in occupancy and daylight detection, along with wireless mesh connectivity.
- Compatible with standalone and gateway modes of Interact.

Interact advanced sensor bundle for Gateway + IoT tier (SB)

- SB sensor option offers occupancy and daylight sensing and supports advanced IoT capabilities, such as desk-level temperature and humidity monitoring, noise classification, and Bluetooth Low Energy (BLE) beacon functionality.
- Setup requires a compatible gateway and internet connectivity.
- With compatible gateway and software analytics, SB sensor option enables greater building efficiency, seamless system integration, and optimized space utilization through occupancy and environmental insights.

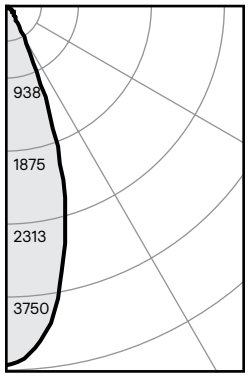
Interact for intelligent buildings sensor option codes across Genlyte product lines*				
	Sensor part #	Daybrite	Ledalite	Lightolier
Zigbee + Bluetooth	SC100B	RADIO	RA	RA
Zigbee + Bluetooth + Sensing	SC200B	SWZCS	CS	SBA or SWCS accessory
Zigbee + Bluetooth + Sensing + Environmental data	SC1500	IAOSB	SB	SBA or SWCS accessory
Zigbee + Highbay + Bluetooth + Sensing	SNH210 IA	SWZCSH	-	-

C4 Calculite LED 4" gen 3

Cylinder

Narrow beam, 1500lm Engine, 117lm/W at 13W

Candela Curve



C4SDL15935NZ10UCLW

Output lumens:	1492 lms
Input watts:	12.8 W
CRI:	90 min
CCT[1]:	3500K
Spacing Crit.:	0.62
Beam Angle:	36°

Zonal summary

Zone	Lumens	%Luminaire
0-30	1322	88.6%
0-40	1437	96.3%
0-60	1490	99.9%
0-90	1492	100.0%

Angle	Mean CP	Lumens
0	3676	
5	3512	
10	3039	320
15	2364	
20	1536	639
25	769	
30	312	363
35	171	
40	135	115
45	64	
50	8	51
55	2	
60	1	2
65	1	
70	0	1
75	0	
80	0	0
85	0	
90	0	0

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	102	4.8'
6'	80	5.4'
7'	65	6.0'
8'	45	6.6'
9'	19	8.7'

* 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'	63.0	0.57
6'	42.0	0.37
7'	30.0	0.27
8'	25.0	0.22
9'	20.0	0.18

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

Efficacy: **116.6lm/W**
Report[2]: STMR-2974

Adjustment factors

Finish		CCT		Lumens	
CL	= 100%	90CRI, 4000K	= 102%	3000lm	= 200%
CC	= 95%	90CRI, 3500K	= 100%	2500lm	= 167%
CD	= 87%	90CRI, 3000K	= 96%	2000lm	= 133%
CZ	= 63%	90CRI, 2700K	= 92%	1500lm	= 100%
WH	= 87%			1000lm	= 67%
BK	= 57%			500lm	= 33%

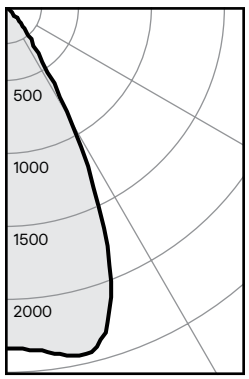
Coefficients of utilization

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%										
0	119	119	119	119	116	116	111	111	106	106	100
1	114	112	110	108	110	106	106	103	102	100	95
2	110	106	103	100	104	99	101	96	98	94	91
3	106	100	96	93	99	92	97	91	94	89	87
4	102	96	91	88	94	87	92	86	91	85	83
5	98	91	86	83	90	82	89	82	87	81	79
6	94	87	82	79	86	78	85	78	84	77	76
7	91	83	78	75	83	75	82	74	80	74	73
8	88	80	75	72	79	72	78	71	77	71	70
9	85	77	72	69	76	69	75	68	75	68	67
10	82	74	69	66	73	66	73	66	72	66	64

Room Cavity Ratio

Medium beam, 1500lm Engine, 108lm/W at 14W

Candela Curve



C4SDL15935MZ10UCLW

Output lumens:	1510 lms
Input watts:	14.0 W
CRI:	90 min
CCT[1]:	3500K
Spacing Crit.:	0.92
Beam Angle:	54°

Zonal summary

Zone	Lumens	%Luminaire
0-30	1242	82.3%
0-40	1450	96.0%
0-60	1508	99.9%
0-90	1510	100.0%

Angle	Mean CP	Lumens
0	1859	
5	1871	
10	1924	180
15	1910	
20	1677	527
25	1204	
30	661	535
35	307	
40	154	208
45	69	
50	9	55
55	2	
60	1	3
65	1	
70	0	1
75	0	
80	0	0
85	0	
90	0	0

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	74	4.6'
6'	52	5.5'
7'	38	6.4'
8'	29	7.4'
9'	23	8.3'

* 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'	70.0	0.62
6'	46.0	0.41
7'	32.0	0.29
8'	27.0	0.24
9'	22.0	0.19

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

Efficacy: **107.9lm/W**
Report[2]: STMR-1613

Adjustment factors

Finish		CCT		Lumens	
CL	= 100%	90CRI, 4000K	= 102%	3000lm	= 200%
CC	= 95%	90CRI, 3500K	= 100%	2500lm	= 167%
CD	= 87%	90CRI, 3000K	= 96%	2000lm	= 133%
CZ	= 63%	90CRI, 2700K	= 92%	1500lm	= 100%
WH	= 87%			1000lm	= 67%
BK	= 57%			500lm	= 33%

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%										
0	119	119	119	119	116	116	111	111	106	106	100
1	114	111	109	107	109	105	105	102	101	99	94
2	109	104	101	97	103	96	99	94	96	92	89
3	104	98	93	90	97	89	94	88	92	86	83
4	99	92	87	83	91	83	89	82	87	81	79
5	95	87	82	78	86	77	84	77	83	76	74
6	90	82	77	73	81	72	80	72	79	72	70
7	86	78	72	68	77	68	76	68	75	67	66
8	83	74	68	64	73	64	72	64	71	64	62
9	79	70	65	61	70	61	69	61	68	60	59
10	76	67	61	58	66	58	65	57	65	57	56

Room Cavity Ratio

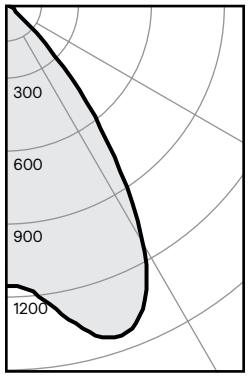
1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

C4 Calculite LED 4" gen 3

Cylinder

Wide beam, 1500lm Engine, 99 lm/W at 14W

Candela Curve



C4SDL15935WZ10UCLW

Output lumens:	1385 lms
Input watts:	14.0 W
CRI:	90 min
CCT[1]:	3500K
Spacing Crit.:	1.26
Beam Angle:	67°

Zonal summary

Zone	Lumens	%Luminaire
0-30	886	64.0%
0-40	1264	91.3%
0-60	1384	99.9%
0-90	1385	100.0%

Angle	Mean CP	Lumens
0	917	
5	941	
10	1025	93
15	1116	
20	1135	314
25	1063	
30	873	479
35	606	
40	366	378
45	134	
50	15	116
55	3	
60	2	4
65	1	
70	1	1
75	0	
80	0	0
85	0	
90	0	0

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	37	6.3'
6'	25	7.6'
7'	19	8.8'
8'	14	10.1'
9'	11	11.3'

* 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'	63.0	0.62
6'	42.0	0.41
7'	29.0	0.29
8'	25.0	0.24
9'	20.0	0.19

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

Efficacy: **98.9 lm/W**
Report[2]: STMR-1641.1

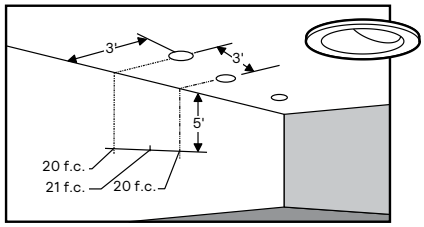
Adjustment factors

Finish	CCT	Lumens
CL = 100%	90CRI, 4000K = 102%	3000lm = 200%
CC = 95%	90CRI, 3500K = 100%	2500lm = 167%
CD = 87%	90CRI, 3000K = 96%	2000lm = 133%
CZ = 63%	90CRI, 2700K = 92%	1500lm = 100%
WH = 87%		1000lm = 67%
BK = 57%		500lm = 33%

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%										
0	119	119	119	119	116	116	111	111	106	106	100
1	113	110	108	106	108	104	104	101	100	98	93
2	107	102	98	95	101	93	97	91	94	89	86
3	102	95	90	85	93	85	91	83	88	82	79
4	96	88	82	78	87	77	85	76	83	75	73
5	91	82	76	71	81	71	79	70	77	70	67
6	86	76	70	65	75	65	74	65	72	64	62
7	81	71	65	60	70	60	69	60	68	59	58
8	77	66	60	56	66	56	65	55	64	55	53
9	72	62	56	52	62	52	61	51	60	51	50
10	69	58	52	48	58	48	57	48	56	48	46

Room Cavity Ratio



Lighting Data - Example

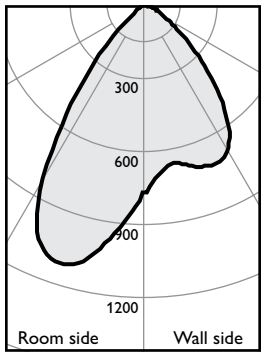
C4RWWCL / C4L15935W
illumination on the wall
5' down from the ceiling is 20 f.c.
beneath and 21 f.c. between fixtures.

Adjustment factors

Finish	CCT	Lumens
CL = 100%	90CRI, 4000K = 102%	3000lm = 200%
CC = 95%	90CRI, 3500K = 100%	2500lm = 167%
CD = 87%	90CRI, 3000K = 96%	2000lm = 133%
CZ = 63%	90CRI, 2700K = 92%	1500lm = 100%
WH = 87%		1000lm = 67%
BK = 57%		500lm = 33%

Open Wall Wash, 1500lm Engine, 96 lm/W at 14W

Candela Curve



C4SWW15935WZ10UCLW

Output lumens:	1348 lms
Input watts:	14.0 W
CRI:	90 min
CCT[1]:	3500K

Efficacy: **96.3 lm/w**
Report[2]: STMR-1614.2

Multiple unit data
Footcandles on wall

Distance from ceiling in feet	2' from wall, 3' on ctr.		
1	16	13	16
2	30	25	30
3	32	30	32
4	27	27	27
5	20	21	20
6	16	16	16
7	12	13	12
8	9	10	9
9	8	8	8
10	6	6	6
12	5	5	5
14	4	5	4

Multiple unit data
Footcandles on wall

Distance from ceiling in feet	3' from wall, 3' on ctr.		
1	7	6	7
2	13	13	13
3	19	18	19
4	21	21	21
5	20	21	20
6	18	18	18
7	14	15	14
8	12	12	12
9	10	10	10
10	8	8	8
12	7	7	7
14	6	6	6

Multiple unit data
Footcandles on wall

Distance from ceiling in feet	3' from wall, 4' on ctr.		
1	6	5	6
2	11	9	11
3	16	13	16
4	17	16	17
5	16	16	16
6	14	14	14
7	12	12	12
8	10	10	10
9	8	8	8
10	7	7	7
12	6	6	6
14	5	5	5

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. 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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