LIGHTOLIER

Downlighting

Calculite LED 6" gen 3

C6RA/C6SA Adjustable Accent



Calculite LED 6" generation 3 features industry leading visual comfort and patented installation flexibility. MesoOptics soft focus optical film provides excellent uniform illumination and color consistency at articulated angles. Ideal for use in open office, retail, hospitality, healthcare, and residential applications.

Project:

Location:

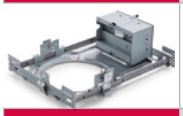
Cat.No:

Type:

Qty:

Notes:

Follow the ordering guidelines below. Each step is a separate order line.

Step 1	**Frame:** Ordered & shipped separately.
	**Frame** — **Example:** 6ARN 6AR [ ]
Step 2	**Engine & Trim:** Ordered & shipped as a single product.
	**Engine** — **Example:** C6RA20930NSZ10ULS6010-C6RACLF C6 [ ] – C6 [ ]
Step 3 (optional)	**Accessories:** Ordered & shipped separately.

Frame

example: 6ARN

Series	Installation	Voltage / Options
6AR 6" Round for C6R Engine **6AS** 6" Square for C6S Engine	**N** Non-IC	– Universal (120V-347V) **LC** Chicago Plenum **EM6** Emergency, 6W Self-Test/Self-Diagnostic [2]
	A AirSeal (IC) [1]	– Standard Universal (120V-347V)

Engine

example: C6RA20930NSZ10ULS6010

Series	Lumens	CRI/CCT	Beam	Dimming	Options	Voltage	Options	Plenum
C6RA 6" Round Adjustable Accent **C6SA** 6" Square Adjustable Accent	**10** 1000lm **15** 1500lm **20** 2000lm **25** 2500lm **30** 3000lm [1] **35** 3500lm [1] **40** 4000lm [1]* **50** 5000lm [1]* **60** 6000lm [1]* * See product marked spacing requirements on page 9.	**927** 90CRI/2700K **930** 90CRI/3000K **935** 90CRI/3500K **940** 90CRI/4000K **9D2W** 90CRI/3000-1800K [3] **96T** 90CRI/2700-6500K tunable white [4]	**NS** Narrow Spot (13°) [5] **NF** Narrow Flood (23°) **FL** Flood (33°) [5] **WF** Wide Flood (52°)	**Z10** 0-10V 1%	–– None **D2O** Dim to Off (up to 4000lm)	**U** 120/277V **3** 347V (up to 4000lm)	–– Symmetrical soft focus **LS6010** Linear spread 60x10 **ASY8** Asymmetric 8° bend angle **ASY21** Asymmetric 21° bend angle	–– Standard **R** Remodeler [6]
				L01 Lutron PEQ0 0.1% (up to 2000lm) **L1** Lutron LDE1 1% (up to 4000lm) **LD** Lutron L3D 1% (up to 4000lm) **LTW** Lutron T-Series tunable white (for 96T CRI/CCT only)	–– None	**U** 120/277V For 347V order T347-75VA accessory		
				DALI DALI 0.1% [7]	–– None **LIN** Linear			
				SOL EldoLED Solo 0-10V 0.1% (up to 5000lm) **DMX** Digital Multiplexing w/RDM 0.1% (up to 5000lm)	–– None **LIN** Linear **SQR** Square			
				RA Interact Pro [8]				
				E Forward & Reverse Phase (up to 2500lm)		**1** 120V		

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

C6RA/C6SA Calculite LED 6" gen 3

Round & Square Adjustable Accent

Trim

example: C6RACLF

Series	Finish	Flange	Options
C6RA 6" Round Adjustable Accent	**CL** Specular clear **CC** Comfort clear **CD** Comfort clear diffuse **CZ** Champagne bronze (C6RA only)	**–** White (matte) **P** Polished (matches aperture) – C6RA round trim only **B** Black (matte) **A** Aluminum (painted) – C6SA square trim only **F** Flangeless (requires mud-in ring)	**WL** Wet loc.
C6SA 6" Square Adjustable Accent	**WT** Textured White (painted) **BZ** Textured bronze (painted) **D** Aluminum diffuse (painted)	**–** White (matte) **P** Polished (matches aperture) **B** Black (matte) **F** Flangeless (requires mud-in ring)	
	BK Black (C6RA is anodized, C6SA is matte) **BT** Textured Black (painted)	**–** White (matte) **P** Polished (matches aperture) **F** Flangeless (requires mud-in ring)	
	WH White (matte) **WHAMF** White (gloss antimicrobial)	**–** White (matches finish) **F** Flangeless (requires mud-in ring)	

Accessories

CA6RFMR	Mud-in ring for use in 6" Round flangeless trim.
CA6SFMR	Mud-in ring for use in 6x6 Square flange trim.
SWCS	Interact Ready System Bridge Accessory (refer to SWCS spec sheet for options and details)
T347-75VA	347:120V step-down transformer for non-IC (N) frame only (see page 3 for details). Not for use with emergency options. Emergency test switch mounting plate.
CAEM6	Field installable Bodine BSL6 6W battery pack with self-text/self-diagnostic (for new construction frames, 120-277V - see page 3 for details).
CAEM6TSCP	Emergency test switch mounting plate. Must be ordered with EM6 frame for remote test switch (see page 2 for details)

Optical Accessories (field-installable)

CA6NSRPO	Narrow Spot upper reflector
CA6NFRPO	Narrow Flood upper reflector
CA6FLRPO	Flood upper reflector
CA6WFRPO	Wide flood upper reflector
CL6HCL	Hex cell louver
CA6RSYM	6" symmetrical MesoOptics
CA6RLS6010	6" 60x10 linear MesoOptics
CA6RASY8	6" asymmetrical 8° MesoOptics
CA6RASY21	6" asymmetrical 21° MesoOptics

Footnotes for page 1

1. IC rated up to 2500lm with AirSeal (A) frame, above 2500lm non-IC.
2. Emergency (EM6) frame requires remote mounted test switch (not compatible with 347V). Order CAEM6TSCP mounting plate accessory. Not available with Chicago plenum (LC) option.
3. Dim-to-warm (D2W) available only with 0-10V (Z10) and DALI (D) dimming options. See page 7 for lumen, beam, and dimming compatibility.
4. Available with 0-10v, DMX, DALI, Lutron T, & RA dimming options. RA to 2500lm, Z10 to 3000lm, DMX/D/LTW to 3500lm. See page 7 for lumen, beam, and dimming compatibility.
5. Narrow spot and Flood beams available up to 4000lm.
6. For remodeler installations, order light engine and trim only (no frame needed). Available with E and Z10 dimming to 3000lm, not available with RA dimming.
7. DALI 3500lm and above, and all RA options require linear driver configuration (see page 2 & 7).
8. Linear driver profile, enables wireless connected lighting control (see page 7 for details). Specify only with Non-IC (N) frame, not for use with LC, EM6, nor 9D2W options.

C6RA/C6SA Calculite LED 6" gen 3

Round & Square Adjustable Accent

Frame-in-kits

New Construction:
Galvanized stamped steel for dry or plaster ceilings. Pre-installed telescoping mounting bars from 13" to 24". For 4' distances, use 1/2" EMT, 1-1/2" x 1/2" U or C channel.

AirSeal (air-tight/IC):
Galvanized steel housing for dry or plaster ceilings. Pre-installed telescoping mounting bars from 13" to 24". Tested in compliance with ASTM E283 for airtight.

Max ceiling thickness is 1.25" (32 mm)
Min ceiling thickness is 0.5" (12 mm)

Patented install Mounting frame:

- Pre-installed mounting bars for fast and tool-less installs into T-grid & hat channel ceilings.
- Close-cut aperture design eliminates possibility of gap between ceiling opening and reflector flange.
- Separate wiring compartment for wiring frame to building allows inspection prior to light engine install.
- Simple plug-and-play connection between frame and light engine from below ceiling.

Dimming

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 0.1% EcoSystem
- Lutron LDE1 (L1) EcoSystem 1%
- Lutron L3DA (LD) Hi-Lume A 3-wire 1%
- Electronic low voltage (E) - forward or reverse phase dimming
- DALI (D) - DT6 DALI 0.1%
- DMX (DMX) - Digital Multiplexing with RDM 0.1%

Dimming Options

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

SOL/D/DMX	Logarithmic (-) standard
SOL/D/DMX	Linear (LIN)
SOL/DMX	Square (SQR)

Optical systems

Quality of light:
2 SDCM ensures color consistency from fixture to fixture and over the luminaire's long lifetime.

C6RA round trim construction:
Precision spun high grade aluminum reflectors with options for anodized or painted finishes.

C6SA square trim construction:
Precision die-cast aluminum reflectors with options for anodized or painted finishes.

Color rendering:
Consistent CRI of greater than 90 across the spectrum.

Dim to warm (D2W):
Delivered CCT gradually warms from 3000-1800K along dimming range. 0-10V (Z10) or DALI (D) dimming only. Fixture-to-fixture consistency of ≤3SDCM at 2700K & 3000K, and ≤ 5SDCM at 1800K.

Tunable white (6T): 2700K to 6500K CCT. Use with Z10U (Z10), DALI (D), DMX, Lutron T-series (LTW), or Interact (RA) dimming only. Fixture-to-fixture consistency of ≤3SDCM at 2700K, 5000K, & 6500K CCT.

Diffusion Media

- PET film containing surface relieved, microscopic light diffusing structures/elements
- Optimizes luminaire efficacy via high optical transmission.
- Homogenizes light engine luminance providing smooth gradients of light.
- Other distribution options available including linear spread and asymmetric.
- Hex cell louver may be ordered factory or field installed. Works with media holder supplied with original light engine.
- All media factory or field assembled to primary optic via integral holder.

Light engine

Quick connect power pack allows for easy installation and replacement from below ceiling with no need for additional wiring. This allows for:

- Frame and ceiling installation to be performed while still finalizing details such as lumen packages, CCT and control type.
- Easy replacement of electronics at end of life with minimal wasted material and labor required.
- Ease and upgradability of technology.

347V light engines are Z10 dimming only and include dedicated 347V driver. For 347V non-Z10 dimming, order T347-75VA field-installed step-down transformer accessory.

Predicted 90% lumen maintenance to 60,000 hours at 30C ambient.

Remodeler Engine (R)

- No frame is required.
- Remodeler engine is suited for new construction, remodel, and retrofit applications.
- All wiring is done on the integral j-box to the engine.
- LCEM6 6W battery pack accessory is available for field installation.

Emergency

- Bodine BSL6 6W battery pack with self-test/diagnostic functionality installed.
- Indicator light/test switch mounted remote.
- CAEM6TSCP accessory ceiling plate to remote mount test switch. Required with EM6 frame.

Adjustability



- 45° vertical tilt, mechanical aiming with lock and indicator
- 362° rotation with lock
- Field changeable optics

Options and Accessories

Field Installed Emergency: Refer to Calculite-LyteProfile-EasyLyte Emergency Battery Pack specification sheet for more details.

C6RA round flangeless mud-in ring:
CA6RFMR – round mud-in ring for plaster installs.

C6SA square flangeless mud-in ring:
CA6SFMR – square mud-in ring for plaster installs.

CAEM6TSCP: Ceiling cover plate for remote mounted EM6 test switch. 1/2" (25mm) hole, 4 3/8" (109mm) x 2 3/4" (69mm) rectangular. Includes two mounting screws.

CAEM6: Field install EM6 kit with Bodine BSL6 6W battery pack with self-test/self-diagnostic, mounts to new construction frames. Includes remote ceiling plate for test switch.

SBA: Interact Ready System Bridge Accessory Requires IRT9015 IR remote and Interact Pro App for commissioning.

T347-75VA: Field installable 347:120V 75VA step-down transformer, attaches to knock out on frame junction box, for use with non-IC (N) frame only. Not available with EM6 frame option.

Labels and Listings

- cULus listed for damp locations (wet loc. available)
- RoHS certified
- CCEA (frames with *LC suffix)
- Red List Declare label certified, ID SIG-0017 (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.

C6RA/C6SA Calculite LED 6" gen 3

Round & Square Adjustable Accent

Polished 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). C6RA round only.



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.



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



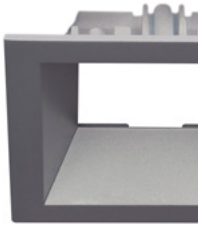
Black (BK): (anodized for C6RA, painted for C6SA)) Specular finish that provides the lowest aperture brightness possible and significantly reduces source identification in a ceiling.



Vandal proof (VP): Provides an elegant solution for vandal resistant needs. One piece machined aluminum ring with impact resistant clear lens. Flangeless (F) flange must be ordered (C6RA round only). Provides the luminaire with an IK10 impact and IP65 rating.

Textured Reflectors

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



Aluminum diffuse (D): Matte painted finish.



Textured white (WT): Matte painted finish.



Textured black (BT): Matte painted finish.



Bronze (BZ): Matte painted finish.

Flanges



White (–): (matte) Provides the smoothest transition to ceilings when off.



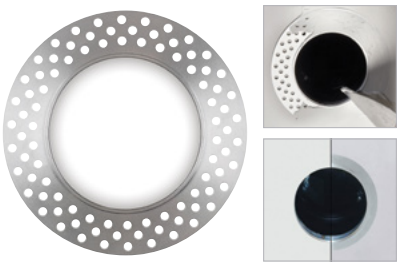
Polished (P): (matches aperture) Produces a continuous look throughout the reflector (aperture matching). Not available for square trims with CL, CD, CC, and CZ finishes.



Aluminum (A): Painted aluminum finish for square flanges to more closely match visual appearance of anodized inner trim finish. C6SA trims only.



Flangeless (F): (flush-mount)Creates a flush, virtually seamless transition from aperture to ceiling.

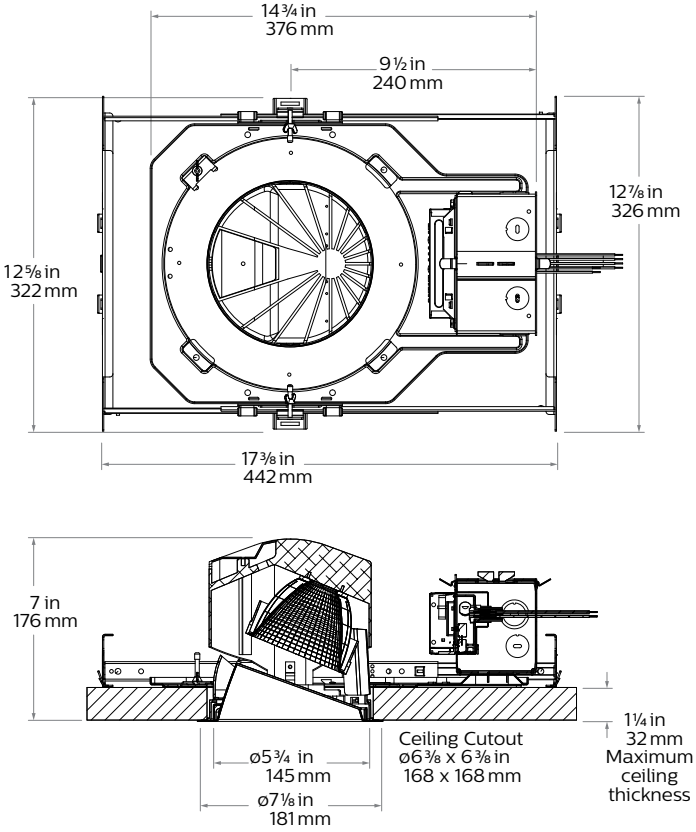


Mud-in ring (FMR): Low profile, non-metallic mud-in ring provides a raised rib to plaster up to and a 3⁄16" flange thickness. The ring is attached to the ceiling material as opposed to the frame-in kit to avoid conduction of heat and vibration which can cause yellowing or cracking of the plaster.

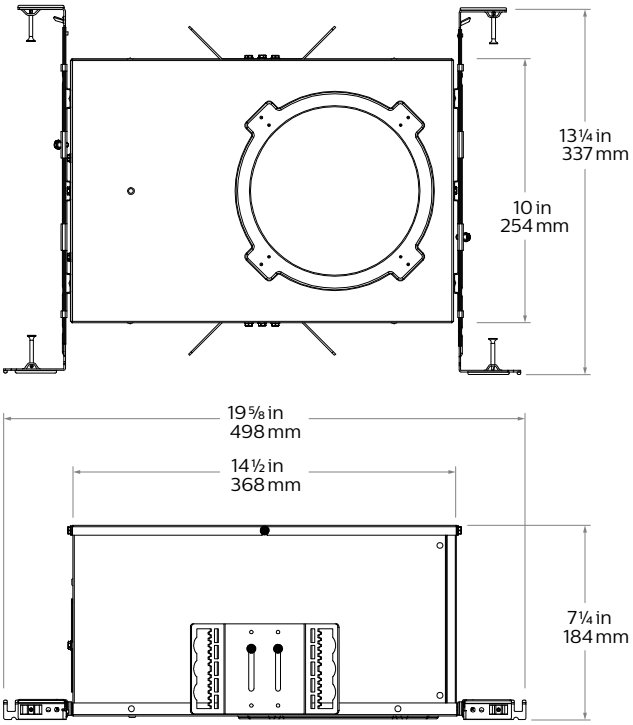
C6RA Calculite LED 6" gen 3

Round Adjustable Accent

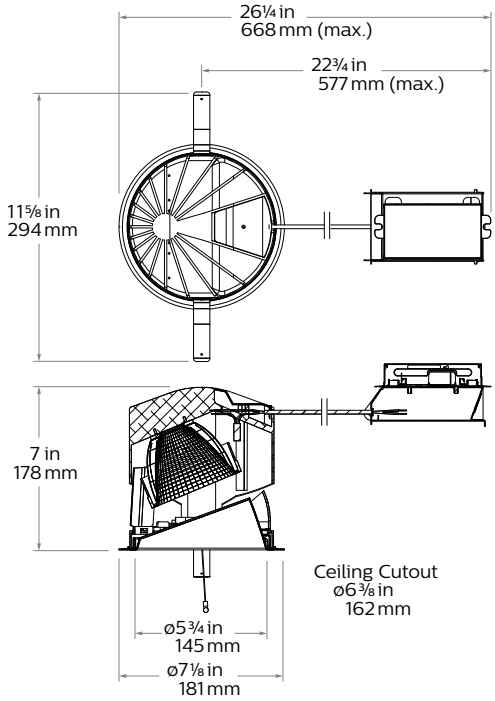
New Construction (N)



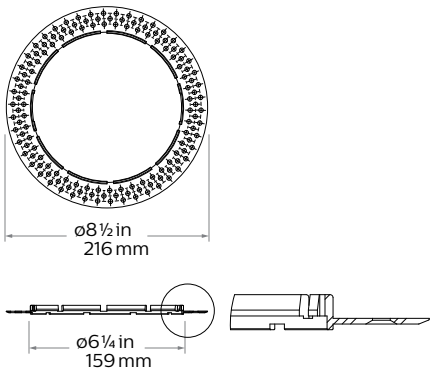
AirSeal (A) & Chicago plenum (LC)



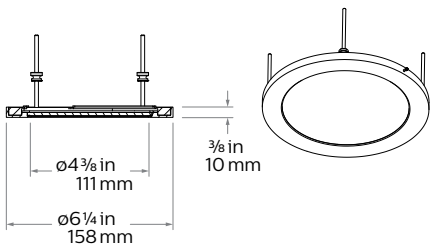
Remodeler (R)



Flangeless mud-in ring (CA6RFT) accessory



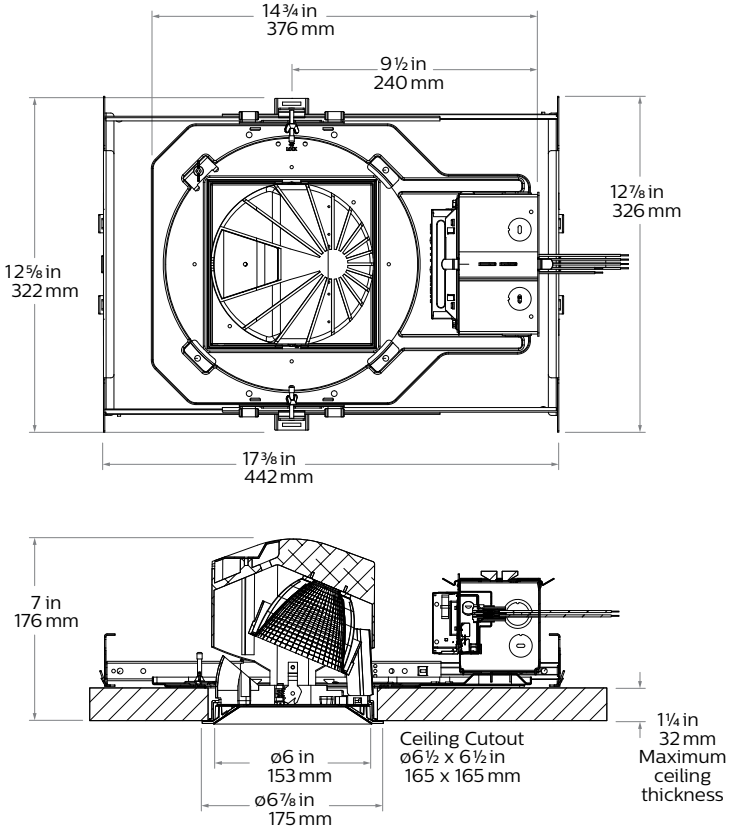
Vandal Proof (VP) accessory



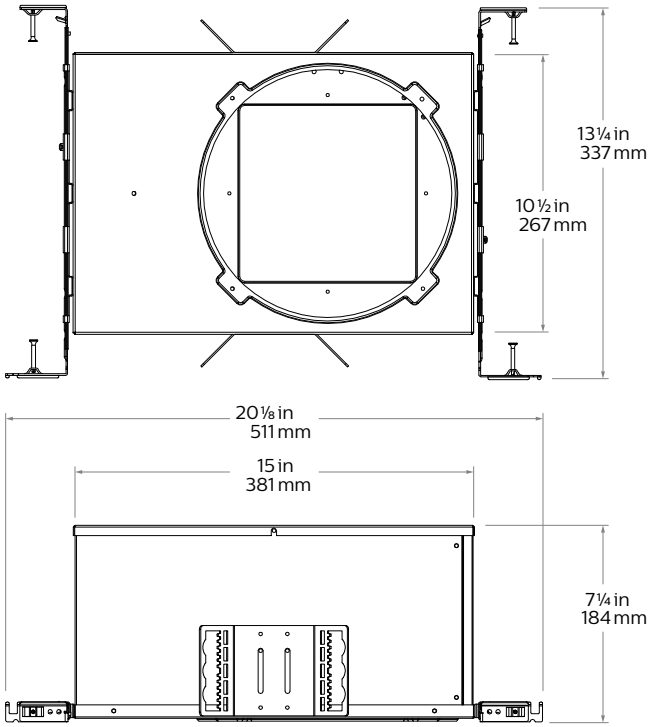
C6SA Calculite LED 6" gen 3

Square Adjustable Accent

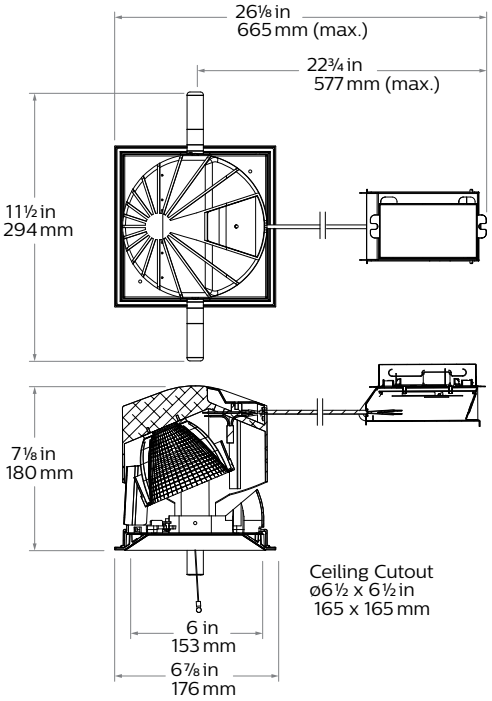
New Construction (N)



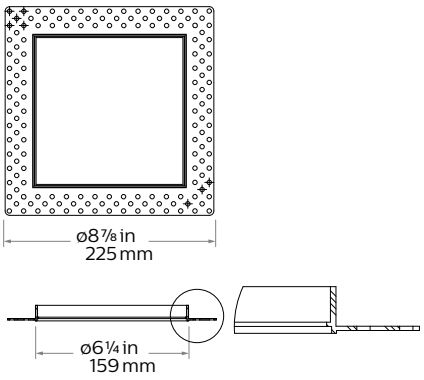
Chicago Plenum (LC)



Remodeler (R)



Flangeless mud-in ring (CA6RFT) accessory



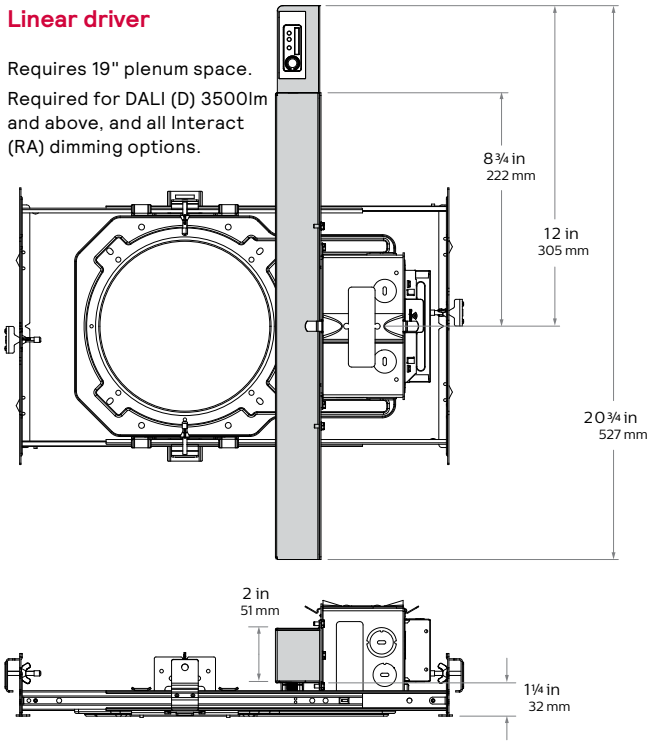
C6RA/C6SA Calculite LED 6" gen 3

Round & Square Adjustable Accent

Linear driver

Requires 19" plenum space.

Required for DALI (D) 3500lm and above, and all Interact (RA) dimming options.



C6RA/C6SA Calculite LED 6" gen 3

Round & Square Adjustable Accent



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

Static White

	Dimming												Beam			
Lumens	SOL	Z10	Z10D2O	Z103	Z103D2O	E	L01	L1	LD	DMX	D	RA	NS	NF	FL	WF
1000	X	X	X	X	X	X	X	X	X	X	X	L	X	X	X	X
1000	X	X	X	X	X	X	X	X	X	X	X	L	X	X	X	X
1500	X	X	X	X	X	X	X	X	X	X	X	L	X	X	X	X
2000	X	X	X	X	X	X	X	X	X	X	X	L	X	X	X	X
2500	X	X	X	X	X	X		X	X	X	X	L	X	X	X	X
3000	X	X	X	X	X			X	X	X	X	L	X	X	X	X
3500	X	X	X	X	X			X	X	X	L[1]	L	X	X	X	X
4000	X	X	X	X	X			X[2]	X	X	L	L	X	X	X	X
5000	X	X								X	L	L		X		X
6000		X									L	L		X		X

1. DALI (D) dimming @ 3500lm is linear driver cofiguration with NS and FL beams.
2. Lutron LDE1 (L1) dimming @ 4000lm available with NF and WF beams.

X Available
L Available with linear driver configuration

Marked spacing applications

Light engine	6000lm	Modules marked with an X require marked spacing:
All configurations	X	Center-to-center of adjacent luminaires: 24" (610mm) Luminaire center to side building member: 12" (305mm) n accordance with CAN ICES-005-A/NEB-005-A & FCC Part 15-A

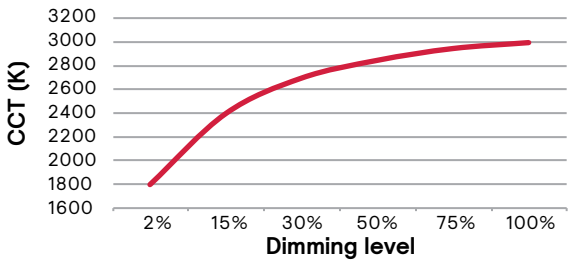
Tunable White (96T)

	Dimming					Beam			
Lumens	Z10	D	DMX	LTW	RA	NS	NF	FL	WF
1000	X	X	X	X	L	X	X	X	X
1500	X	X	X	X	L	X	X	X	X
2000	X	X	X	X	L		X		X
2500	X	X	X	X	L		X		X
3000	X	X	X	X			X		X
3500		X	X	X			X		X

Dim-to-Warm (9D2W)

	Dimming		Beam			
Lumens	Z10	D	NS	NF	FL	WF
1000	X	X	X	X	X	X
1500	X	X	X	X	X	X
2000	X	X		X		X

Dim-to-Warm: CCT vs Dimmed level



C6RA/C6SA Calculite LED 6" gen 3

Round & Square Adjustable Accent

interact



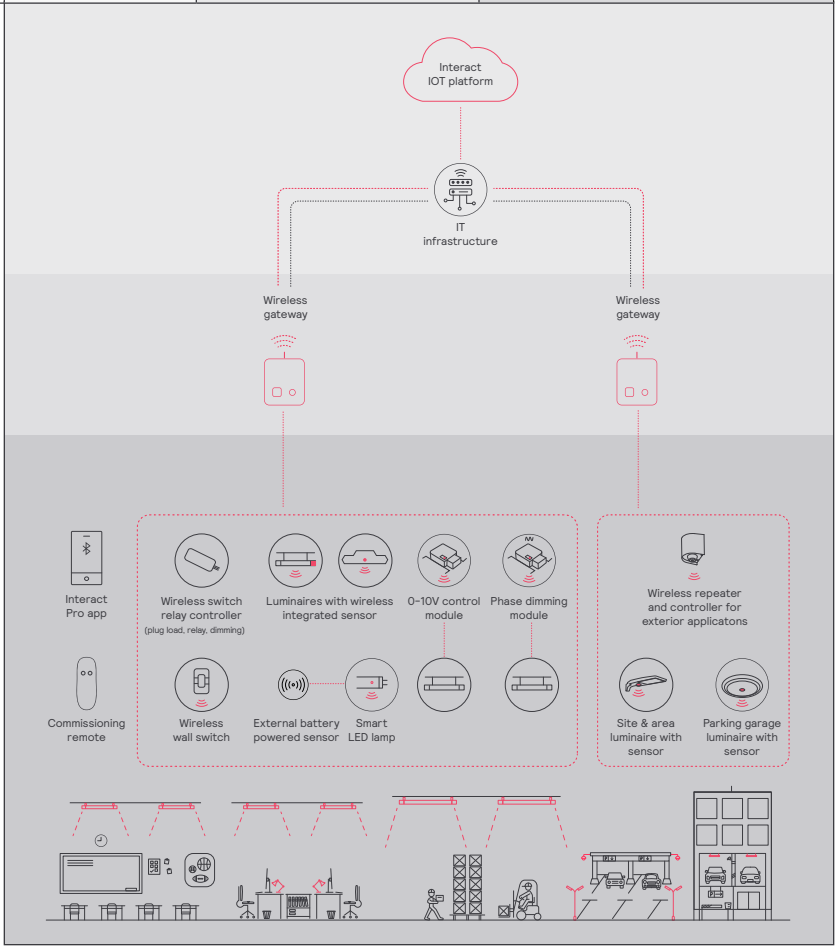
		Standalone	Gateway	Gateway + IoT
Dimming, grouping, and zoning		✓	✓	✓
Bluetooth and ZigBee enabled		✓	✓	✓
Motion sensing and daylight harvesting		✓	✓	✓
Integration with 0–10V and phase dimming fixtures		✓	✓	✓
Code compliance		✓	✓	✓
Granular dimming and dwell time		✓	✓	✓
Correlated color temperature (CCT) tuning by switch	New	✓	✓	✓
Support for sensor-based Tunable White luminaires	New	✓	✓	✓
Energy reporting and monitoring			✓	✓
Scheduling			✓	✓
Demand response			✓	✓
BMS integration (BACnet)				✓
Floor plan visualization				✓
IoT sensors for wellness				✓
IoT Apps for productivity				✓

Currently supported maximum system size

To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.

System level	
Total number of gateways	Unlimited
Total number of devices	200 per network
• Luminaires with integrated sensors	150
• Smart TLEDS	150
• Zones + groups	64
Total number of ZGP devices (sensors and switches)	50
• Sensors	30
• Switches	50

Group level	
Recommended number of lights	40 (maximum 150)
Number of ZGP devices	5
Number of scenes	16



C6RA/C6SA Calculite LED 6" gen 3

Round & Square Adjustable Accent

Wireless controls options

Interact

- SWZCS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the standalone mode (similar to SpaceWise) when configured without a gateway or in a cloud connected mode if a compatible gateway is used.
- Interact includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & BlueTooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote on-site to identify and group devices together.

  Compatible with:

  - SWS200 & UID8465 wireless scene switch
  - Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
  - Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
  - LCN3110: battery powered IP65 presence sensor, OCC sensor IA CM IP65W
  - LCN3120: battery powered IP65 presence & daylight sensor, OCC-DL sensor IA CM IP65 WH
- For more information on Interact visit: interact-lighting.com/interactproscalablesystem

Radio only sensor (RA or RADIO)

- Integral RA or RADIO only sensor simply enables wireless mesh connectivity to the luminaire without any occupancy or daylight sensing.
- Ideal for applications where sensing functionality is managed by other Interact devices and the luminaire only needs to have wireless connectivity.
- Interact includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non-gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely, identify and group devices together onsite.
- Compatible with SWS200 and UID8465 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- For more information on Interact visit: interact-lighting.com/interactproscalablesystem

Sensor bundle (IAOSB or SB)

- A wireless IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.
- View all your projects under one dashboard and easily compare insights from multiple projects in one view.
- Compatible with SWS200 wireless scene switch, wireless Occ sensor (OCC SENSORIA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1) and wireless Occupancy or Daylight & Occupancy sensors available.• Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- IAOSB or SB option in addition to occupancy and daylights sensing supports advanced IoT capabilities, such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Requires compatible Gateway and internet connectivity for commissioning.
- For more information, visit: interact-lighting.com/interactproscalablesystem

Emergency Options (ER100)

- **Power Sensing** (factory default) – Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output.
- **Power Interruption Detection** (field option) – Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output.

Interact supported sensor option codes across Genlyte product lines

	Evokit	Day-Brite	Ledalite	Lightolier
ZigBee + Bluetooth + Sensing	SWZCS	SWZCS	CS	SBA accessory (external)
ZigBee + Bluetooth	RADIO	RADIO	RA	RA
ZigBee + Bluetooth + Sensing + Environmental data	IAOSB	IAOSB	SB	SB
ZigBee + Highbay + Sensing	-	SWZCSH	-	-

C6RA/C6SA Calculite LED 6" gen 3

Round & Square Adjustable Accent

Electrical – Static White (NS & FL Beams)

Light engine	Input volts	Input freq.	Input current	LED Drive current	Input power	LED power	THD @ Max Load	Power @ Max Load
C6_A10_[NS|FL]Z10U	120V	50/60Hz	0.072A	0.22A	8.6W	7.0W	<10%	>0.9
	277V	50/60Hz	0.032A	0.22A	8.8W	7.0W	<20%	>0.9
	347V	50/60Hz	0.029A	0.22A	10.0W	7.0W	<30%	>0.9
C6_A15_[NS|FL]Z10U	120V	50/60Hz	0.100A	0.31A	12.0W	10.0W	<10%	>0.9
	277V	50/60Hz	0.044A	0.31A	12.1W	10.0W	<10%	>0.9
	347V	50/60Hz	0.040A	0.31A	13.7W	10.0W	<25%	>0.9
C6_A20_[NS|FL]Z10U	120V	50/60Hz	0.137A	0.42A	16.4W	13.8W	<10%	>0.9
	277V	50/60Hz	0.060A	0.42A	16.5W	13.8W	<10%	>0.9
	347V	50/60Hz	0.054A	0.42A	18.8W	13.8W	<25%	>0.9
C6_A25_[NS|FL]Z10U	120V	50/60Hz	0.173A	0.53A	20.8W	17.7W	<10%	>0.9
	277V	50/60Hz	0.076A	0.53A	20.9W	17.7W	<10%	>0.9
	347V	50/60Hz	0.064A	0.53A	22.1W	17.7W	<20%	>0.9
C6_A30_[NS|FL]Z10U	120V	50/60Hz	0.212A	0.64A	25.5W	21.7W	<10%	>0.9
	277V	50/60Hz	0.092A	0.64A	25.5W	21.7W	<10%	>0.9
	347V	50/60Hz	0.078A	0.64A	26.9W	21.7W	<20%	>0.9
C6_A35_[NS|FL]Z10U	120V	50/60Hz	0.254A	0.76A	30.4W	26.2W	<10%	>0.9
	277V	50/60Hz	0.110A	0.76A	30.4W	26.2W	<10%	>0.9
	347V	50/60Hz	0.090A	0.76A	31.1W	26.2W	<15%	>0.9
C6_A40_[NS|FL]Z10U	120V	50/60Hz	0.306A	0.90A	36.7W	31.6W	<10%	>0.9
	277V	50/60Hz	0.132A	0.90A	36.5W	31.6W	<10%	>0.9
	347V	50/60Hz	0.107A	0.90A	37.1W	31.6W	<10%	>0.9

Electrical – Static White (NF & WF Beams)

Light engine	Input volts	Input freq.	Input current	LED Drive current	Input power	LED power	THD @ Max Load	Power @ Max Load
C6_A10_[NF|WF]Z10U	120V	50/60Hz	0.070A	0.22A	8.4W	6.9W	<10%	>0.9
	277V	50/60Hz	0.031A	0.22A	8.7W	6.9W	<20%	>0.9
	347V	50/60Hz	0.028A	0.22A	9.8W	6.9W	<30%	>0.9
C6_A15_[NF|WF]Z10U	120V	50/60Hz	0.097A	0.30A	11.6W	9.5W	<10%	>0.9
	277V	50/60Hz	0.043A	0.30A	11.8W	9.5W	<10%	>0.9
	347V	50/60Hz	0.039A	0.30A	13.5W	9.5W	<30%	>0.9
C6_A20_[NF|WF]Z10U	120V	50/60Hz	0.128A	0.40A	15.3W	12.9W	<10%	>0.9
	277V	50/60Hz	0.056A	0.40A	15.4W	12.9W	<10%	>0.9
	347V	50/60Hz	0.050A	0.40A	17.5W	12.9W	<25%	>0.9
C6_A25_[NF|WF]Z10U	120V	50/60Hz	0.161A	0.50A	19.3W	16.3W	<10%	>0.9
	277V	50/60Hz	0.070A	0.50A	19.4W	16.3W	<10%	>0.9
	347V	50/60Hz	0.061A	0.50A	21.3W	16.3W	<20%	>0.9
C6_A30_[NF|WF]Z10U	120V	50/60Hz	0.198A	0.61A	23.7W	20.2W	<10%	>0.9
	277V	50/60Hz	0.086A	0.61A	23.7W	20.2W	<10%	>0.9
	347V	50/60Hz	0.072A	0.61A	25.1W	20.2W	<20%	>0.9
C6_A35_[NF|WF]Z10U	120V	50/60Hz	0.235A	0.72A	28.2W	24.1W	<10%	>0.9
	277V	50/60Hz	0.101A	0.72A	28.1W	24.1W	<10%	>0.9
	347V	50/60Hz	0.085A	0.72A	29.4W	24.1W	<15%	>0.9
C6_A40_[NF|WF]Z10U	120V	50/60Hz	0.277A	0.84A	33.2W	28.6W	<10%	>0.9
	277V	50/60Hz	0.119A	0.84A	33.0W	28.6W	<10%	>0.9
	347V	50/60Hz	0.097A	0.84A	33.6W	28.6W	<10%	>0.9
C6_A50_[NF|WF|FL]Z10U	120V	50/60Hz	0.369A	1.09A	44.3W	38.1W	<10%	>0.9
	277V	50/60Hz	0.158A	1.09A	43.8W	38.1W	<10%	>0.9
	347V	50/60Hz	0.128A	1.09A	44.5W	38.1W	<10%	>0.9
C6_A60_[NF|WF|FL] Z10U	120V	50/60Hz	0.473A	1.36A	56.8W	48.8W	<10%	>0.9
	277V	50/60Hz	0.203A	1.36A	56.1W	48.8W	<10%	>0.9
	347V	50/60Hz	0.164A	1.36A	56.8W	48.8W	<10%	>0.9

C6RA/C6SA Calculite LED 6" gen 3

Round & Square Adjustable Accent

Electrical – Dim-to-Warm (NS & FL Beams)

Light engine		Input volts	Input freq.	Input current	LED Drive current	Input power	LED power	THD @ Max Load	Power @ Max Load
C6_A10D2W[NS][FL]Z10U	62	120V	50/60Hz	0.122A	0.350A	14.6W	12.0W	<10%	>0.9
	62	277V	50/60Hz	0.057A	0.350A	15.8W	12.0W	<30%	>0.9
C6_A15D2W[NS][FL]Z10U	67	120V	50/60Hz	0.193A	0.555A	23.2W	19.7W	<10%	>0.9
	67	277V	50/60Hz	0.086A	0.555A	23.7W	19.7W	<20%	>0.9

Electrical – Tunable White (NS & FL Beams)

Light engine		Input volts	Input freq.	Input current	LED Drive current	Input power	LED power	THD @ Max Load	Power @ Max Load
C6_A1096T[NS][FL]Z10U	2	120V	50/60Hz	0.113A	0.350A	13.5W	11.1W	<20%	>0.9
	2	277V	50/60Hz	0.053A	0.350A	14.7W	11.1W	<20%	>0.9
C6_A1596T[NS][FL]Z10U	7	120V	50/60Hz	0.191A	0.555A	22.9W	19.4W	<20%	>0.9
	7	277V	50/60Hz	0.087A	0.555A	24.2W	19.4W	<20%	>0.9

Electrical – Dim-to-Warm (NF & WF Beams)

Light engine		Input volts	Input freq.	Input current	LED Drive current	Input power	LED power	THD @ Max Load	Power @ Max Load
C6_A10D2W[NF][WF]Z10U	66	120V	50/60Hz	0.113A	0.320A	13.5W	10.9W	<10%	>0.9
	66	277V	50/60Hz	0.052A	0.320A	14.5W	10.9W	<30%	>0.9
C6_A15D2W[NF][WF]Z10U	71	120V	50/60Hz	0.167A	0.485A	20.1W	17.0W	<10%	>0.9
	71	277V	50/60Hz	0.076A	0.485A	21.1W	17.0W	<20%	>0.9
C6_A20D2W[NF][WF]Z10U	76	120V	50/60Hz	0.240A	0.680A	28.8W	24.6W	<10%	>0.9
	76	277V	50/60Hz	0.105A	0.680A	29.1W	24.6W	<10%	>0.9

Electrical – Tunable White (NF & WF Beams)

Light engine		Input volts	Input freq.	Input current	LED Drive current	Input power	LED power	THD @ Max Load	Power @ Max Load
C6_A1096T[NF][WF]Z10U	6	120V	50/60Hz	0.107A	0.320A	12.9W	10.4W	<20%	>0.9
	6	277V	50/60Hz	0.051A	0.320A	14.1W	10.4W	<20%	>0.9
C6_A1596T[NF][WF]Z10U	11	120V	50/60Hz	0.162A	0.485A	19.4W	16.1W	<20%	>0.9
	11	277V	50/60Hz	0.075A	0.485A	20.7W	16.1W	<20%	>0.9
C6_A2096T[NF][WF]Z10U	16	120V	50/60Hz	0.225A	0.680A	27.0W	23.0W	<20%	>0.9
	16	277V	50/60Hz	0.102A	0.680A	28.3W	23.0W	<20%	>0.9
C6_A2596T[NF][WF]Z10U	21	120V	50/60Hz	0.299A	0.900A	35.9W	31.1W	<20%	>0.9
	21	277V	50/60Hz	0.133A	0.900A	36.8W	31.1W	<20%	>0.9
C6_A3096T[NF][WF]Z10U	26	120V	50/60Hz	0.379A	1.125A	45.5W	39.6W	<20%	>0.9
	26	277V	50/60Hz	0.166A	1.125A	46.0W	39.6W	<20%	>0.9

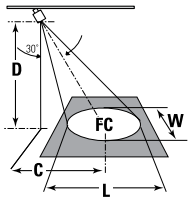
C6RA/C6SA Calculite LED 6" gen 3

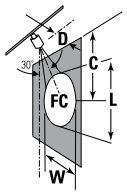
Round & Square Adjustable Accent

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.

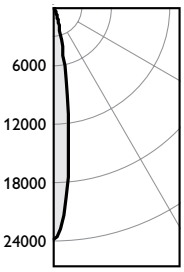
FC	Footcandles
L	Beam length
W	Beam Width
D	Distance
A	Aiming Angle
C	Distance to center beam
CBCP	Center Beam Candlepower





Adjustment Factors

Standard	Shallow 1" Regress	CCT (90CRI)	Lumens
CL = 100%	WT = 96%	4000K = 102%	1000lm = 40%
CC = 99%	D = 98%	3500K = 100%	1500lm = 60%
CD = 98%	BZ = 96%	3000K = 94%	2000lm = 80%
WH = 99%	BT = 96%	2700K = 89%	2500lm = 100%
CZ = 98%			3000lm = 120%
BK = 96%			3500lm = 140%
			4000lm = 160%
			5000lm = 200%
			6000lm = 240%



Frame: **6ARN**
Engine: **C6RA25935NSZ10U**
Trim: **C6RACL**

Output lumens:	2728 lms
Input watts:	20.8 W
CRI:	90 min
CCT [1]:	3500 K
CBCP:	23,896 cd
Beam Angle:	15°

Efficacy: **131.2 lm/w**
Report[2]: ---

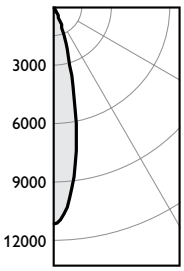
Narrow Spot, 2500lm engine, 131lm/W at 21W

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
10	5.8	155	3.5	3.0
12	6.9	108	4.2	3.6
14	8.1	79	4.9	4.3
18	10.4	48	6.4	5.5

30° Vertical Aiming

Distance			Beam	
D	C	F.C.	L	W
3	5.2	332	3.3	1.6
4	6.9	187	4.4	2.1
5	8.7	119	5.6	2.6
6	10.4	83	6.7	3.2



Frame: **6ARN**
Engine: **C6RA25935NFZ10U**
Trim: **C6RACL**

Output lumens:	2370 lms
Input watts:	19.3 W
CRI:	90 min
CCT [1]:	3500 K
CBCP:	11,160 cd
Beam Angle:	24°

Efficacy: **122.8 lm/w**
Report[2]: ---

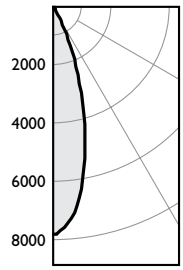
Narrow Flood, 2500lm engine, 123lm/W at 19W

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
6	3.5	201	3.5	2.9
8	4.6	113	4.6	3.9
10	5.8	72	5.8	4.9
12	6.9	50	6.9	5.9

30° Vertical Aiming

Distance			Beam	
D	C	F.C.	L	W
2	3.5	349	3.9	1.7
3	5.2	155	5.9	2.6
4	6.9	87	7.9	3.4
5	8.7	56	9.8	4.3



Frame: **6ARN**
Engine: **C6RA25935FLZ10U**
Trim: **C6RACL**

Output lumens:	2526 lms
Input watts:	20.8 W
CRI:	90 min
CCT [1]:	3500 K
CBCP:	7,780 cd
Beam Angle:	32°

Efficacy: **121.4 lm/w**
Report[2]: ---

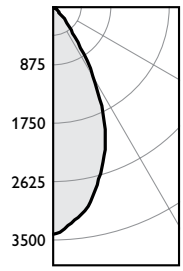
Flood, 2500lm engine, 59 lm/W at 21W

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
6	3.5	140	4.7	4.0
8	4.6	79	6.3	5.3
10	5.8	51	7.9	6.6
12	6.9	35	9.4	7.9

30° Vertical Aiming

Distance			Beam	
D	C	F.C.	L	W
2	3.5	243	6.1	2.3
3	5.2	108	9.1	3.4
4	6.9	61	12.2	4.6
5	8.7	39	15.2	5.7



Frame: **6ARN**
Engine: **C6RA25935WFZ10U**
Trim: **C6RACL**

Output lumens:	2371 lms
Input watts:	19.4 W
CRI:	90 min
CCT [1]:	3500 K
CBCP:	3,398 cd
Beam Angle:	51°

Efficacy: **122.2 lm/w**
Report[2]: ---

Wide Flood, 2500lm engine, 55 lm/W at 19W

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
6	3.5	61	8.3	6.6
8	4.6	34	11.0	8.8
10	5.8	22	13.8	11.0
12	6.9	15	16.5	13.2

30° Vertical Aiming

Distance			Beam	
D	C	F.C.	L	W
2	3.5	106	24.0	3.8
3	5.2	47	36.1	5.7
4	6.9	27	48.1	7.6
5	8.7	17	60.1	9.5

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.

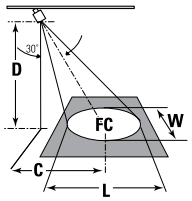
C6RA/C6SA Calculite LED 6" gen 3

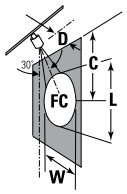
Round & Square Adjustable Accent

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.

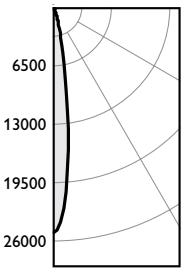
FC	Footcandles
L	Beam length
W	Beam Width
D	Distance
A	Aiming Angle
C	Distance to center beam
CBCP	Center Beam Candlepower





Adjustment Factors

Standard	Shallow 1" Regress	CCT (90CRI)	Lumens
CL = 100%	WT = 96%	4000K = 102%	1000lm = 40%
CC = 99%	D = 98%	3500K = 100%	1500lm = 60%
CD = 98%	BZ = 96%	3000K = 94%	2000lm = 80%
WH = 99%	BT = 96%	2700K = 89%	2500lm = 100%
CZ = 98%			3000lm = 120%
BK = 96%			3500lm = 140%
			4000lm = 160%
			5000lm = 200%
			6000lm = 240%



Frame: **6ASN**
Engine: **C6SA25935NSZ10U**
Trim: **C6SACL**

Output lumens:	2695 lms
Input watts:	20.8 W
CRI:	90 min
CCT [1]:	3500 K
CBCP:	25,110 cd
Beam Angle:	15°

Efficacy: **129.6 lm/w**
Report [2]: ---

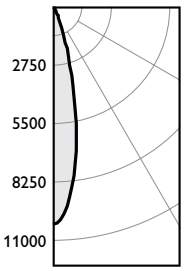
Narrow Spot, 2500lm engine, 131lm/W at 21W

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
10	5.8	163	3.5	3.0
12	6.9	113	4.2	3.6
14	8.1	83	4.9	4.3
18	10.4	50	6.4	5.5

30° Vertical Aiming

Distance			Beam	
D	C	F.C.	L	W
3	5.2	349	3.3	1.6
4	6.9	196	4.4	2.1
5	8.7	126	5.6	2.6
6	10.4	87	6.7	3.2



Frame: **6ASN**
Engine: **C6SA25935NFZ10U**
Trim: **C6SACL**

Output lumens:	2064 lms
Input watts:	19.3 W
CRI:	90 min
CCT [1]:	3500 K
CBCP:	10,185 cd
Beam Angle:	24°

Efficacy: **106.9 lm/w**
Report [2]: ---

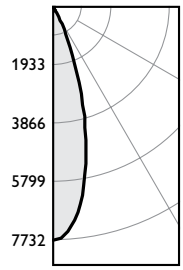
Narrow Flood, 2500lm engine, 123lm/W at 19W

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
6	3.5	184	3.5	2.9
8	4.6	103	4.6	3.9
10	5.8	66	5.8	4.9
12	6.9	46	6.9	5.9

30° Vertical Aiming

Distance			Beam	
D	C	F.C.	L	W
2	3.5	318	3.9	1.7
3	5.2	141	5.9	2.6
4	6.9	80	7.9	3.4
5	8.7	51	9.8	4.3



Frame: **6ASN**
Engine: **C6SA25935FLZ10U**
Trim: **C6SACL**

Output lumens:	2408 lms
Input watts:	20.8 W
CRI:	90 min
CCT [1]:	3500 K
CBCP:	7,732 cd
Beam Angle:	32°

Efficacy: **115.8 lm/w**
Report [2]: ---

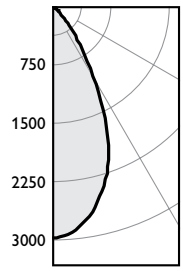
Flood, 2000lm engine, 59 lm/W at 16W

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
6	3.5	140	4.7	4.0
8	4.6	78	6.3	5.3
10	5.8	50	7.9	6.6
12	6.9	35	9.4	7.9

30° Vertical Aiming

Distance			Beam	
D	C	F.C.	L	W
2	3.5	242	6.1	2.3
3	5.2	107	9.1	3.4
4	6.9	60	12.2	4.6
5	8.7	39	15.2	5.7



Frame: **6ASN**
Engine: **C6SA25935WFZ10U**
Trim: **C6SACL**

Output lumens:	2222 lms
Input watts:	19.3 W
CRI:	90 min
CCT [1]:	3500 K
CBCP:	2,953 cd
Beam Angle:	52°

Efficacy: **115.1 lm/w**
Report [2]: ---

Wide Flood, 1000lm engine, 55 lm/W at 16W

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
6	3.5	53	8.5	6.8
8	4.6	30	11.3	9.0
10	5.8	19	14.1	11.3
12	6.9	13	17.0	13.5

30° Vertical Aiming

Distance			Beam	
D	C	F.C.	L	W
2	3.5	92	27.3	3.9
3	5.2	41	40.9	5.9
4	6.9	23	54.5	7.8
5	8.7	15	68.1	9.8

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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