Calculite LED 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.

Buy American Act of 1933 (BAA) Compliant luminaire*: Complete luminaire = Frame-BAC + Engine-BAC + Trim-BAC

* BAA compliance requires that BAC 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-compliant.

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 **3S**	**Example:** 3SN

Step 2	**Engine & Trim:** Ordered & shipped as a single product.	
	Engine **C3SA** — **C3SA**	**Example:** C3SA05940NSZ10US–C3SACL

Step 3 (optional)	**Accessories:** Ordered & shipped separately.

Frame

Note: For remodeler installations, order light engine and trim only (no frame needed).   **example:** 3SAS

Series **3S**	Installation	Voltage / Options	
3S Uniframe 3" square frame	**N** New Construction Non-IC	— Universal 120/277/347V	**LC** Chicago plenum **EM6** Emergency, 6W Self-Test/Self-Diagnostic[1]
	A AirSeal IC (1000lm max)	— Standard Universal 120/277/347V	**S** Shallow Universal 120/277/347V[2]

Engine

example: C3SA05940NSZ10US

Series **C3S**	Style **A**	Lumens	CRI/CCT	Beam	Dimming	Options	Voltage	Plenum
C3S Calculite 3" square light engine	**A** Adj. Accent	**05** 500lm **07** 750lm **10** 1000lm **15** 1500lm[3]	**927** 90CRI/2700K **930** 90CRI/3000K **935** 90CRI/3500K **940** 90CRI/4000K	**NS** Narrow Spot (15°) **SP** Spot (20°) **NF** Narrow Flood (23°) **FL** Flood (29°)	**Z10** 0–10V 1%	**---** None **D2O** Dim to Off	**U** 120V/277V **3** 347V (Z10 only)	— Standard
		07 750lm	**9D2W** 90CRI/3000–1800K Specify with new construction (N) frame and 0–10v (Z10) dimming only		**L01** Lutron PEQ0 EcoSystem 0.1% **L1** Lutron LDE1 EcoSystem[4]		**U** 120V/277V	
					D DALI 0.1%	**---** None **LIN** Linear	**U** 120V/277V	
					SOL 0–10V 0.1% **DMX** Digital Multiplex w/ RDM 0.1%	**---** None **LIN** Linear **SQR** Square	**U** 120V/277V	
					E Forward/Reverse Phase		**1** 120V	
					RA Integral Interact Pro RF sensor[5]		**U** 120V/277V	
		07 750lm **10** 1000lm	**927** 90CRI/2700K **930** 90CRI/3000K **935** 90CRI/3500K **940** 90CRI/4000K	**NS** Nar. Spot **SP** Spot **NF** Nar. Flood **FL** Flood	**Z10** 0–10V 1%	**---** None	**U** 120V/277V	**R** Remodeler[6] **S** Shallow[2]
					E Forward/Reverse Phase		**1** 120V	

c UL us LISTED   IC INSULATION CONTACT   RoHS COMPLIANT   mesoOptics   energy STAR   interact ready.

C3SA   Calculite LED 3"

Square adjustable accent

Engine (continued)

Optics[7] (choose one)

MesoOptics optical films	Hex Cell Louver with film
MesoOptics film with holder on TIR optic, order trim with NMO option (no film)	HCL with MesoOptics film and holder on TIR optic, order trim with NMO option (no film)
TIR MesoOptics w/Symmetrical soft focus film	**HCL** Hex cell louver w/Symmetrical soft focus film
TIRLS6010 MesoOptics w/Linear spread 60x10 film	**HCLLS6010** Hex cell louver w/Linear spread 60x10 film
TIRASY21 MesoOptics w/Asymmetrical 21° film	**HCLASY21** Hex cell louver w/Asymmetrical 21° film
TIRASY8 MesoOptics w/Asymmetrical 8° film	**HCLASY8** Hex cell louver w/Asymmetrical 8° film

Trim

example: C3SACLFLS6010

Series	Style	Reflector	Flange	Optics
C3S	**A** Adjust. Accent	**CL** Specular clear **CC** Comfort clear **CD** Comfort clear diffuse	**—** White (matte) **F** Flangeless[8]	**MesoOptics**
C3S Calculite 3" square trim		**BK** Black (matte)	**B** Black (matte) **F** Flangeless[8]	**—** Symmetrical soft focus
		WH White (matte)	**—** White (matte) **F** Flangeless[8]	**LS6010** Linear spread 60x10
		WT Textured white (painted)	**P** Matching refl. **F** Flangeless[8]	**ASY21** Asymmetrical 21° bend angle
		BT Textured black (painted) **BZ** Bronze (painted) **D** Alum. diffuse (painted)	**—** White (matte) **P** Matching refl. **F** Flangeless[8]	**ASY8** Asymmetrical 8° bend angle **NMO** No MesoOptics optical film[7]

Accessories (order & install separately)

SBA	Interact Ready System Bridge (compatible with 0–10V, see SBA spec sheet) Requires IRT9015 IR remote & Interact Pro App for commissioning.
CAEM6	Field installable Bodine BSL6 6W battery pack with self-test/self-diagnostic for use with new construction frames, 120–277V
CA3SAAFT	Mud-in ring for square flangeless installs (ordered with a flangeless trim)
CAEM6TSCP	Must be ordered with EM6 frame for remote test switch (see page 3 for details)
T347-75VA	347:120V step-down transformer for non-IC (N) frame only (see page 3 for details). Not compatible with emergency options.

Upper reflector optics (Additional field-installable optics)	MesoOptics optical films (for field placement on trim)	MesoOptics optical films (for field placement on TIR optic, includes holder)	Hex cell louver / MesoOptics (for field placement on TIR optic, includes holder)
CA3NSSFR 15° Narrow Spot	**CA3SSYM** Symmetrical film	**TIRCA3RSYM** Symmetrical film	**CL3HCL** 3" holder/Symmetrical film
CA3SSFR 20° Spot	**CA3SLS6010** 60x10 Linear spread film	**TIRCA3RLS6010** 60x10 Linear spread film	**CL3HCLS6010** 3" holder/60x10 Linear spread film
CA3NFSFR 23° Narrow Flood	**CA3SASY21** Asymmetrical 21° bend angle film	**TIRCA3RASY21** Asymmetrical 21° bend angle film	**CL3HCLASY21** 3" holder/Asymmetrical 21° bend angle film
CA3FLSFR 29° Flood	**CA3SASY8** Asymmetrical 8° bend angle film	**TIRCA3RASY8** Asymmetrical 8° bend angle film	**CL3HCLASY8** 3" holder/Asymmetrical 8° bend angle film

---

This meticulously engineered downlight is pre-adjusted to 22.5° out of the box, saving installation time. It can be vertically adjusted to 45° with three quick turns of a screwdriver and locked into place.

0-10V electrical tables

Light engine	Input volts	Input current	Drive current	Input power
C3_A05_Z10U/3	120 V	0.08 A	200 mA	9.5 W
	277 V	0.03 A		
C3_A07_Z10U/3	120 V	0.09 A	250 mA	10.9 W
	277 V	0.04 A		
C3_A079D2W_Z10U/3	120 V	0.12 A	330 mA	13.6 W
	277 V	0.05 A		
C3_A10_Z10U/3	120 V	0.13 A	360 mA	15.6 W
	277 V	0.06 A		
C3_A15_Z10U/3	120 V	0.17 A	500 mA	20.4 W
	277 V	0.07 A		
C3_A05_Z10US/3 C3_A05_Z10UR	120 V	0.08 A	220 mA	9.4 W
	277 V	0.03 A		
C3_A10_Z10US/3 C3_A10_Z10UR	120 V	0.12 A	330 mA	14.1 W
	277 V	0.05 A		

ELV electrical tables

Light engine	Input volts	Input current	Drive current	Input power
C3_A05_E1	120 V	0.08 A	220 mA	8.7 W
	277 V	0.03 A		
C3_A07_E1	120 V	0.09 A	250 mA	10.2 W
	277 V	0.04 A		
C3_A079D2W_E1	120 V	0.11 A	330 mA	13.1 W
	277 V	0.05 A		
C3_A10_E1	120 V	0.11 A	350 mA	12.7 W
	277 V	0.05 A		
C3_A15_E1	120 V	0.17 A	500 mA	19.7 W
	277 V	0.07 A		
C3_A05_E1S C3_A05_E1R	120 V	0.08 A	220 mA	8.7 W
	277 V	0.03 A		
C3_A10_E1R C3_A10_E1S	120 V	0.11 A	330 mA	13.1 W
	277 V	0.05 A		

Lutron electrical tables

Light engine	Input volts	Input current	Drive current	Input power
C3_A05_LU	120 V	0.07 A	200 mA	8.4 W
	277 V	0.03 A		
C3_A07_LU	120 V	0.09 A	250 mA	10.7 W
	277 V	0.04 A		
C3_A079D2W_LU	120 V	0.12 A	330 mA	13.0 W
	277 V	0.05 A		
C3_A10_LU	120 V	0.13 A	360 mA	15.4 W
	277 V	0.06 A		
C3_A15_LU	120 V	0.17 A	500 mA	19.8 W
	277 V	0.07 A		

Footnotes for page 1

1. Emergency (EM6) frame requires remote mounted test switch. Order CAEM6TSCP mounting plate. Not compatible with 347V.
2. Shallow frame requires shallow engine (S).
3. The 1500lm (15) option is not available with AirSeal IC (3RA-).
4. Not available with 500lm (05) option.
5. 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 or EM6 options.
6. For remodeler installations, order light engine and trim only (no frame needed).
7. Light engine optics are factory installed and include media holder (order trim with NMO option).
8. Flangeless (F) trims require CA3SAAFT mud-in accessory for installation.

C3SA Calculite LED 3"

Square adjustable accent

Frame-in-kits

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

Max ceiling thickness is 1.25" (32mm)

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 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%
- Dim to Warm (D2W) - option changes CCT from 3000 - 1800K gradually as it dims, dimming agnostic

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)

Optical systems

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

Construction: Precision spun high grade aluminum reflectors with options for anodized or painted finishes. Shallow die cast downlight trims available to aesthetically match adjustable accent in painted finish.

Emergency

Bodine BSL6 6W battery pack with self-test/diagnostic functionality. Factory or field mounted to frame.

- For remote ceiling mounted test switch, order standard Trim (ex: C3SACC). Accessory ceiling mounting plate available (CAEM6TSCP) for remote mounted test switch.
- Refer to Calculite-LyteProfile-EasyLyte Emergency Battery Pack specification sheet for more details.

Adjustability

- 45° vertical tilt, mechanical aiming with lock
- 360° rotation with lock
- Field changeable optics

MesoOptics optical diffusion film

- PET film containing surface relieved, microscopic light diffusing structures/elements.
- Provides a clean beam with mitigated spill at articulated angles.
- Optimizes luminaire efficacy via high optical transmission.
- Homogenizes light engine luminance providing smooth gradients of white light.
- Uniformly lit optical aperture creates a balance of beam precision coupled with smooth gradients of pure white light.
- Other distribution options available including linear spread and asymmetric.
- May be field installed with available accessories.
- Field installed accessories include options for MesoOptics on trim (CA3S) or on the upper TIR optic (TIRCA3R).

Light engine

Quick connect power pack allow 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.
- Predicted 70% lumen maintenance to 57,000 hrs.
- Max operating ambient temperature of 30°C.
- 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.

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.

Hex Cell Louver

- Hex cell louver in black finish affixed to TIR optic with snap-on holder ring.
- Factory installed option or field installed accessory.
- MesoOptics diffusion film is installed the holder.
- For field installation, discard MesoOptics film supplied with the trim.

Options and accessories

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

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.

CAEM6TSCP: Ceiling cover plate for remote mounted EM6 test switch. ½" (25mm) hole, 4⅜" (109mm) x 2¾" (69mm) rectangular. Includes two mounting screws.

Flangeless mud-in ring: Use CA3SAAFT for use with flangeless plaster installations.

Lens Film Accessories: Trim may accept up to one (1) field installed optical films with a total overall thickness up to 0.020" (1.5mm).

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 for use with emergency options.

Title 24 exceptions

- Square Adjustable Accent CL, CC, CD, WH, WT only
- Must be installed in shallow AirSeal IC Frame
- Shallow luminaires must be ELV

Labels and listings

- cULus listed for damp locations
- CEC Title 24 JA8 certified
- CCEA (frames with *LC suffix)

Warranty

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

C3SA Calculite LED 3"

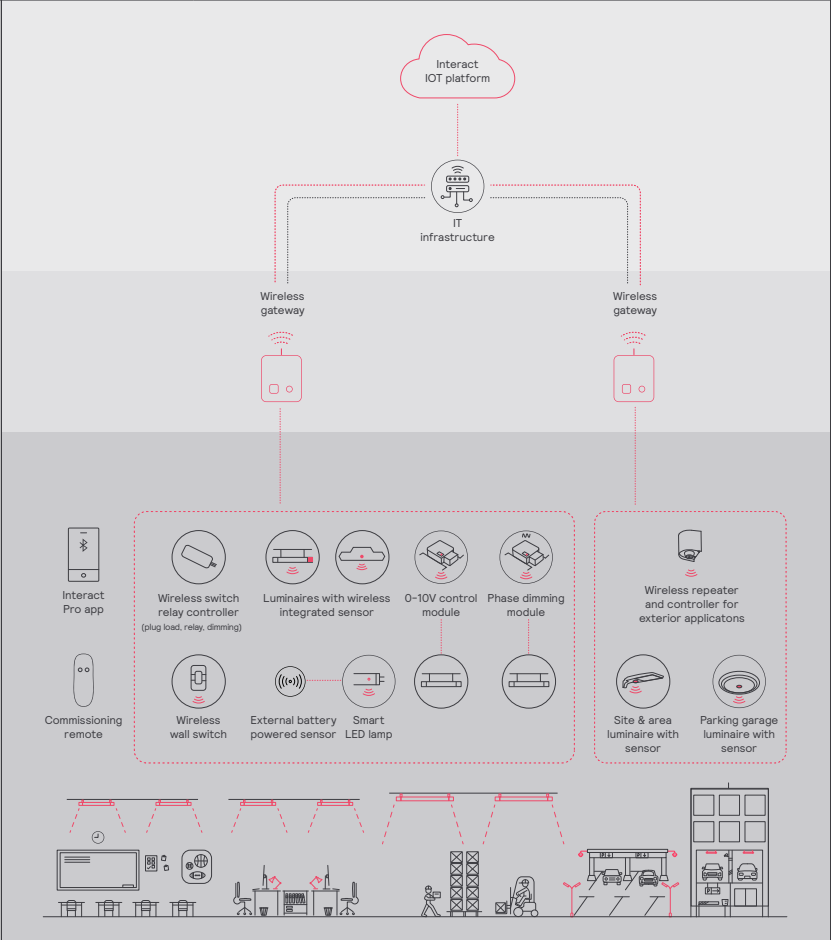## Square adjustable accent

interact

	Standalone	Gateway Connected	
		Option 1	Option 2
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

Interact IOT platform

IT infrastructure

Wireless gateway

Wireless gateway

Interact Pro app

Commissioning remote

Wireless switch relay controller (plug load, relay, dimming)

Wireless wall switch

Luminaires with wireless integrated sensor

External battery powered sensor

0–10V control module

Smart LED lamp

Phase dimming module

Wireless repeater and controller for exterior applicatons

Site & area luminaire with sensor

Parking garage luminaire with sensor

C3SA Calculite LED 3"

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.

Wired controls options

Interact (PoE):

- PoE based IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.

- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.

- Test switch and indicator light mounted on side of chassis on one end.

- Supports advanced IoT Apps on Personal Control, Space Management, wayfinding, room/desk reservation and offers open APIs for light control and data exchange.

- Integral sensor option for occupancy sensing (PIR) and/or daylight harvesting available for additional energy savings.

- Optional integral emergency controller and battery pack provides 600lm nominal output.

- PoE lighting controller is accessible from below.

- Emergency battery has a 3 month pre-installed shelf life, and must be stored and installed in environments of 20C to 30C (-4F to 86F) ambient, and 45-85% relative humidity.

- For more information on Interact Office Wired, visit: interact-lighting.com/office or www.usa.lighting.philips.com/systems/system-areas/offices

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	–	–

C3SA Calculite LED 3"
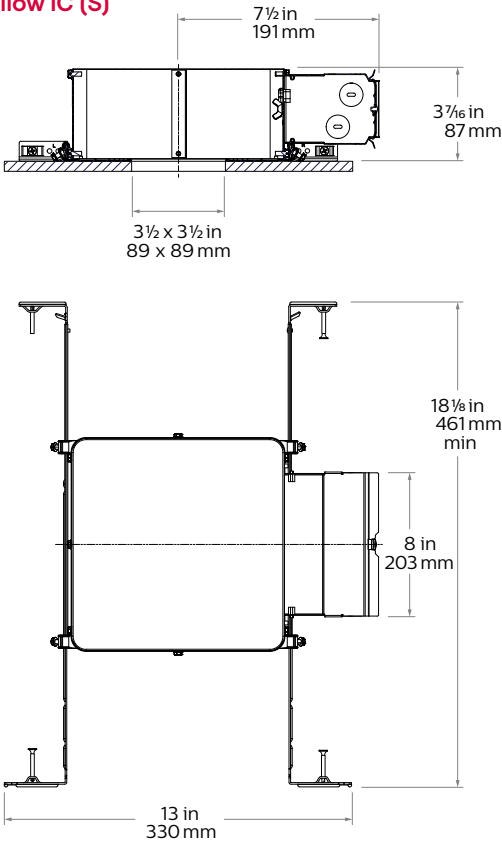
Square adjustable accent

New construction (N)

12 3/8 in
314 mm

8 1/4 in
210 mm

Emergency battery pack
shown with EM6 option on
new construction non–IC frame.

10 1/8 in
257 mm

10 3/8 in
267 mm

16 1/8 in
410 mm

Emergency battery pack
shown with EM6 option on
new construction non–IC frame.

3 1/2 in
89 mm

4 7/8 in
124 mm

*Lens depth
11/16in (17mm)

3 1/8 in
79 mm

4 in
102 mm

Ceiling Cutout
3 1/2 x 3 1/2 in
89 x 89 mm

2 in
51 mm
Maximum
ceiling
thickness
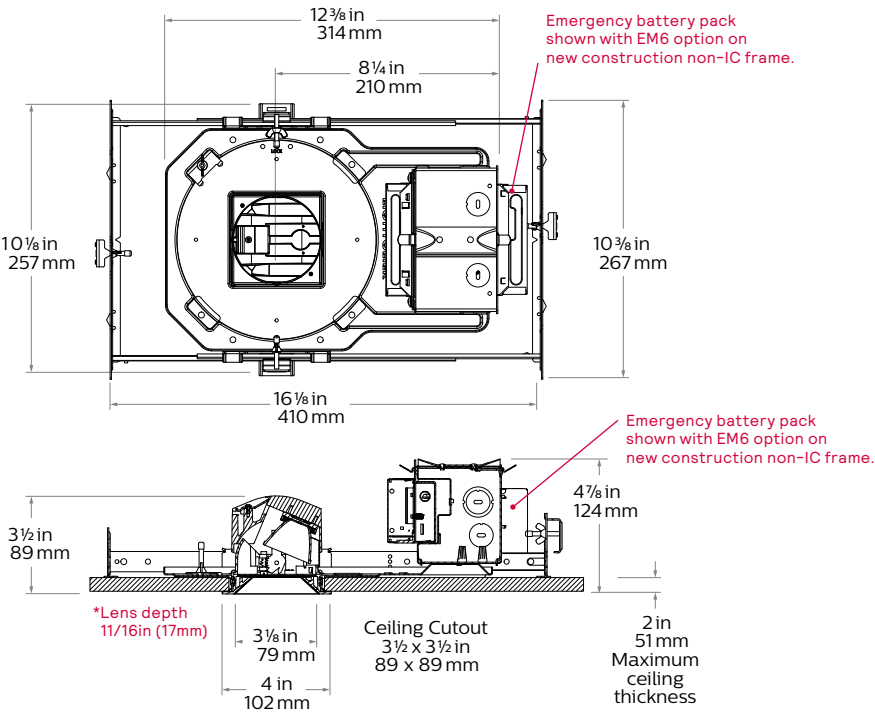
Standard IC (A) and Chicago plenum (LC)

13 1/4 in
337 mm

7 3/4 in
197 mm

16 3/8 in
416 mm

11 1/4 in
286 mm

6 1/8 in
156 mm

Remodeler (R)

12 1/4 in
311 mm
(max.)

3 1/2 in
89 mm

1 7/8 in
46 mm

*Lens depth
11/16in (17mm)

ø3 1/8 in
79 mm

ø4 in
102 mm

Ceiling Cutout
3 1/2 x 3 1/2 in
89 x 89 mm

Shallow IC (S)

7 1/2 in
191 mm

3 7/16 in
87 mm

3 1/2 x 3 1/2 in
89 x 89 mm

18 1/8 in
461 mm
min

8 in
203 mm

13 in
330 mm
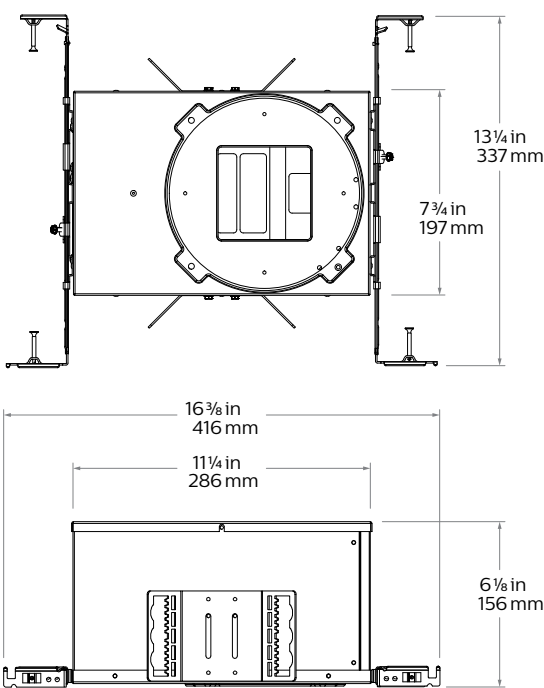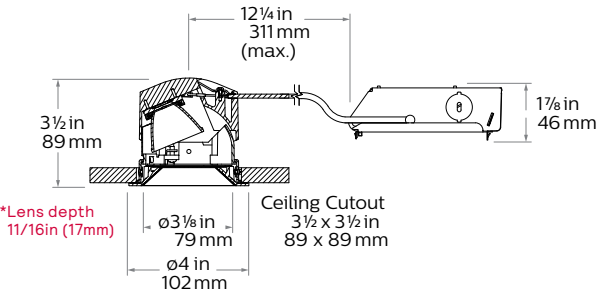
C3SA   Calculite LED 3"

Square adjustable accent

Linear driver (RA)

8¾ in
222 mm

12 in
305 mm

20¾ in
527 mm

2 in
51 mm

1¼ in
32 mm
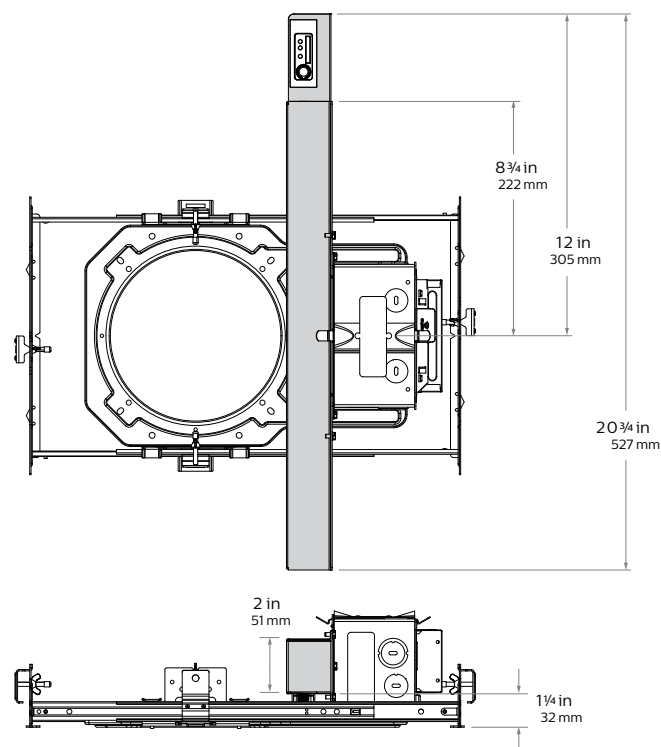
Requires either top accessory or 19" plenum
space without sensor, and 22" with sensor.

Flangeless mud–in ring (CA3SAAFT) accessory

5½ in
140 mm

3⅜ x 3⅜ in
86 x 86 mm
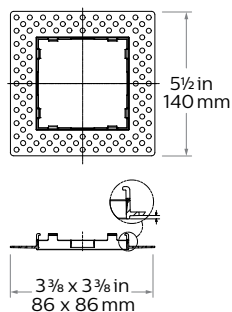
C3SA   Calculite LED 3"

Square adjustable accent

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.

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): (matte) Provides the lowest aperture brightness possible and significantly reduces source identification in a ceiling.

Textured Reflectors
Shown as square reflectors but represent the finish of Calculite round reflectors.
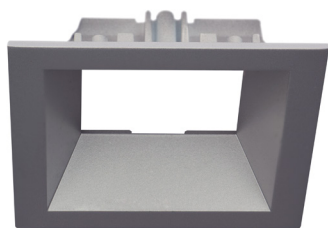
Aluminum diffuse (D):
Matte painted finish.

Textured white (WT):
Matte painted finish.

Bronze (BZ):
Matte painted finish.

Textured black (BT):
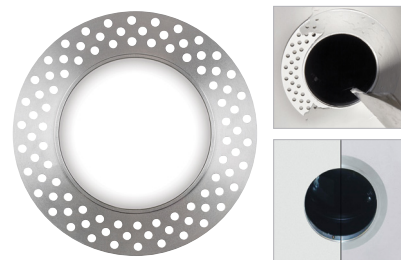Matte painted finish.

Flanges

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

Polished (P): (matches aperture) Produces a continuous look throughout the reflector (aperture matching).

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

Mud-in ring (FT): Low profile, machined aluminum 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.

C3SA   Calculite LED 3"

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	
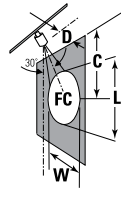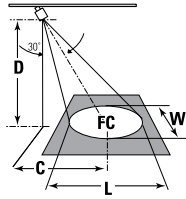
Adjustment Factors

Standard	Shallow 1" Regress	CCT (90CRI)	Lumens
CL = 105%	WT = 112%	4000K = 104%	1500lm = 130%
CC = 100%	D = 100%	3500K = 100%	1000lm = 100%
CD = 80%	BZ = 77%	3000K = 96%	750lm = 70%
WH = 80%	BT = 74%	2700K = 90%	500lm = 50%
CZ = 78%			
BK = 40%			
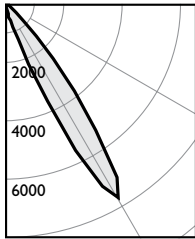
Frame: **3SN**
Engine: **C3SA10935NSZ10U**
Trim: **C3SACC**

Output lumens: 1146 lms
Input watts: 15.6 W
CRI: 90 min
CCT [1]: 3500 K
CBCP: 7666 cd
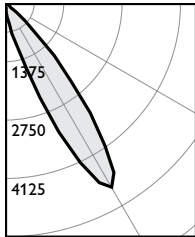Beam Angle: 15°

Efficacy: 73.5 lm/w
Report [2]: F411891

Narrow Spot, 1000lm engine, 74 lm/W at 16W

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
6	3.5	138	2.1	1.8
8	4.6	78	2.8	2.4
10	5.8	50	3.5	3.0
12	6.9	35	4.2	3.6

30° Vertical Aiming

Distance			Beam	
D	C	F.C.	L	W
2	3.5	240	2.2	1.1
3	5.2	106	3.3	1.6
4	6.9	60	4.4	2.1
5	8.7	38	5.6	2.6

Frame: **3SN**
Engine: **C3SA10935SPZ10U**
Trim: **C3SACC**

Output lumens: 865 lms
Input watts: 15.6 W
CRI: 90 min
CCT [1]: 3500 K
CBCP: 5010 cd
Beam Angle: 20°
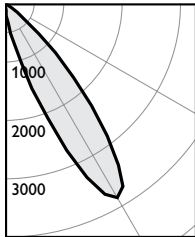
Efficacy: 55.4 lm/w
Report [2]: F041191

Spot, 1000lm engine, 55 lm/W at 16W

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
6	3.5	90	2.9	2.4
8	4.6	51	3.8	3.3
10	5.8	33	4.8	4.1
12	6.9	23	5.7	4.9

30° Vertical Aiming

Distance			Beam	
D	C	F.C.	L	W
2	3.5	157	3.1	1.4
3	5.2	70	4.7	2.1
4	6.9	39	6.2	2.8
5	8.7	25	7.8	3.5

Frame: **3SN**
Engine: **C3SA10935NFZ10U**
Trim: **C3SACC**

Output lumens: 835 lms
Input watts: 15.6 W
CRI: 90 min
CCT [1]: 3500 K
CBCP: 3846 cd
Beam Angle: 23°
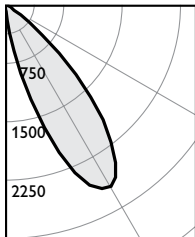
Efficacy: 53.5 lm/w
Report [2]: F041193

Narrow Flood, 1000lm engine, 54 lm/W at 16W

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
6	3.5	69	3.3	2.8
8	4.6	39	4.4	3.8
10	5.8	25	5.5	4.7
12	6.9	17	6.6	5.6

30° Vertical Aiming

Distance			Beam	
D	C	F.C.	L	W
2	3.5	120	3.7	1.6
3	5.2	53	5.6	2.4
4	6.9	30	7.4	3.3
5	8.7	19	9.3	4.1

Frame: **3SN**
Engine: **C3SA10935FLZ10U**
Trim: **C3SACC**

Output lumens: 853 lms
Input watts: 15.6 W
CRI: 90 min
CCT [1]: 3500 K
CBCP: 2687 cd
Beam Angle: 30°

Efficacy: 54.7 lm/w
Report [2]: F041195

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

30° Horizontal Aiming

Distance			Beam	
D	C	F.C.	L	W
6	3.5	48	4.4	3.7
8	4.6	27	5.9	5.0
10	5.8	17	7.3	6.2
12	6.9	12	8.8	7.4

30° Vertical Aiming

Distance			Beam	
D	C	F.C.	L	W
2	3.5	84	5.5	2.1
3	5.2	37	8.2	3.2
4	6.9	21	10.9	4.3
5	8.7	13	13.7	5.4

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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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