# **Downlighting**

# LIGHTOLIER

### Calculite LED 6" gen 3





C6RWW Round Wall Wash

Calculite LED 6" generation 3 provides excellent performance coupled with optimized installation flexibility via UniFrame. Industry leading visual comfort and uniform illumination make it an ideal choice for open office, institution, healthcare, and retail applications.

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

BAA	compliance re	equires tha	t BAC opti	on be se	lected fo	or each of	fframe,	engine,	and t	rin
Acce	essories (ontid	onal) are no	t currentl	v BAA-c	ompliant					

Project:		
Location:		
Cat.No:		
Туре:		
Qty:		
Notes:		

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

Step 1	Frame: Ordered & shipped separately.		
	Frame 6R		Example: 6RN
Step 2	Engine & Trim: Ordered & shipped as a single product.		
	Engine C6L	-C6R	Example: C6L15935MZ10U-C6RWWCCP
Step 3 (optional)	Accessories: Ordered & shipped separately.		

Frame	Standard example: 6RN	BAC example: 6RN-BAC
Traille	otaniaa a oxampio. om	Dito oxampio. orat bito

Ser		Ins	stallation	Voltage/Options				
6F	2							
6R	6" Non-IC Round	N	New construction	— ЕМ6	Universal 120/277/347V Emergency, 6W Self-Test/Self-Diagnostic <sup>1</sup>	LC BAC	Chicago Plenum <sup>2</sup> Meets the requirements of the Buy American Act of 1933 (BAA) <sup>12</sup>	
		R	Remodeler	-	Universal 120/277/347V	BAC	Meets the requirements of the Buy American Act of 1933 (BAA) <sup>12</sup>	

	l .					
Engine			Standard example: C6L209	30MZ10D20UF	BAC example: C6	6L20930MZ10D20U-BAC

Series C6L	Lumens	CRI/CCT	Beam	Dimming	Options	Voltage	Options	
C6L Calculite LED 4"	10 1000lm 15 1500lm	927 90CRI/2700K 930 90CRI/3000K	N Narrow M Medium	<b>Z10</b> 0-10 V 1% <b>Z10-D2O</b> 0-10 V 1% Dim to Off (up	to 3500lm)	U 120/277V 3 347V <sup>6</sup> (Z10 only)	F Flex install <sup>7</sup> (no frame required)	
gen 3	20 2000 lm 25 2500 lm 30 3000 lm 35 3500 lm	935 90CRI/3500K 940 90CRI/4000K 950 90CRI/5000K <sup>3</sup> D2W 90CRI/3000K	W Wide <sup>11</sup>	L01 Lutron PEQ0 EcoSystem 0.1% L1 Lutron LDE1 EcoSystem (up to RA Integral Interact Pro RF sensor	3500lm)	U 120/277V  onnected lighting control)		
	48 4800lm* 60 6000lm*	to 1800K <sup>4</sup> (dim-to-warm)		<b>D</b> DALI 0.1% <sup>5</sup>	None LIN Linear	U 120/277V	the Buy American Act of 1933 (BAA)	
	* See marked spacings requirements			SOL EldoLED Solo 0-10V 0.1% DMX Digital Multiplexing w/RDM 0.1%	None LIN Linear SQR Square	U 120/277V		
	on page 9.			E Forward & Reverse Phase (up	to 3000lm)	1 120V		

#### Trim Standard example: C6RWWCCP | BAC example: C6RWWCCP-BAC

Series C6	Aperture R	Style	Finish	Flange	Options
C6 Calculite LED 6" gen 3	R Round	WW Open Wall Wash LW Lensed Wall Wash <sup>9</sup> CW Corner Wall Wash <sup>10</sup>	Black (anodized) CL Specular clear CD Comfort clear CD Comfort clear diffuse CZ Champagne bronze	- White (matte) P Polished (matches aperture) F Flangeless (requires CA6RFT)	IEM6 Trim mounted EM test switch BAC Meets the requisites
		<b>DW</b> Double Wall Wash <sup>10</sup>	WH White (matte) WHAMF White (gloss antimicrobial)	White (matches finish)     F Flangeless (requires CA6RFT)	of the Buy American Act of 1933 (BAA) <sup>12</sup>

See footnotes on page 2.















### Round Wall Wash

### Accessories (Not currently BAA-compliant) learn more below

SWCS Interact Ready System Bridge Accessory (refer to SWCS spec sheet for options and details)

6RNSR 6" round/square non-IC frame for use with Flex (F) light engine (provides mechanical support for rough-in construction only, no junction box)

LCEM6 Field installable Bodine BSL06 emergency battery pack (for Flex (F) light engine only, includes switch mounting plate)

T347-75VA 347:120V step-down transformer for non-IC (N) frame only (see page 3)
7925 Sloped ceiling 6" adapter for 6RN and 6RA frames, specify with flanged

trims only. (refer to SCA spec sheet for slope options)

CA6RFT Mud-in ring for use in 6" round flangeless trim installations

(ordered with a flangeless trim)

CAEM6 Field-installable Bodine BSL6 6W battery pack with self-test/self-diagnostic (for new construction frames, 120-277V - see page 3 for details)

C6RVPWH IP65 Rated vandal proof matte white accessory mounts onto flangeless

trims (C6RDLUF) and new construction frame only **CAEM6TSCP** Emergency test switch mounting plate.

SCP Emergency test switch mounting plate. Must be ordered with EM6 frame for remote test switch (see page 3)

#### **Round Wall Wash**

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

Lumen		Flux	Efficacy	Beam				IES	TM-30	)-18	
Package	Beam	(lm)	(lm/W)	Angle	СВСР	CRI	R9	R <sub>f</sub>	R <sub>g</sub>	R <sub>cs,h1</sub>	UGR
1000 lm	Open (WW)	787	90	_		90+	50+	93	100	-3%	9
	Lensed (LW)	725	83	_	_	90+	50+	91	100	-6%	15
1500 lm	Open (WW)	1186	91	_	_	90+	50+	93	100	-3%	10
	Lensed (LW)	1093	84	_	_	90+	50+	91	100	-6%	17
2000 lm	Open (WW)	1602	90	_	_	90+	50+	93	100	-3%	11
	Lensed (LW)	1476	83	_	_	90+	50+	91	100	-6%	18
2500 lm	Open (WW)	1986	91	_	_	90+	50+	93	100	-3%	12
	Lensed (LW)	1830	84	_	_	90+	50+	91	100	-6%	19
3000 lm	Open (WW)	2367	90	_	_	90+	50+	93	100	-3%	13
	Lensed (LW)	2181	83	_	_	90+	50+	91	100	-6%	19
3500 lm	Open (WW)	2627	89	_	_	90+	50+	93	100	-3%	13
	Lensed (LW)	2421	82	_	_	90+	50+	91	100	-6%	20
4800 lm	Open (WW)	3758	90	_	_	90+	50+	93	100	-3%	14
	Lensed (LW)	3464	82	_	_	90+	50+	91	100	-6%	21
6000 lm	Open (WW)	4700	86	-	_	90+	50+	93	100	-3%	15
	Lensed (LW)	4332	80	_	_	90+	50+	91	100	-6%	22



# 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 CRI¹
- · 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<sub>a</sub> up to 94 CRI R<sub>f</sub> up to 92 TM-30 R<sub>9</sub> up to 67 CRI R<sub>th1</sub> up to 91 TM-30 G<sub>a</sub> up to 99 CRI R<sub>9</sub> up to 100 TM-30 C<sub>9</sub> up to 94 CRI R<sub>cs,h1</sub> up to -5% TM-30

### Achieve color balance

### Best in class color consistency:

 Promote aesthetic harmony in your space with ≤ 2 SDCM

### Footnotes for page 1

- Emergency (EM6) frame is compatible with reflector mounted test switch when trim is ordered with IEM6 option code (not compatible with 347V configurations).
- For remote mount switch, order standard trim and CAEM6TSCP mounting plate accessory.

  2. Chicago Plenum (LC) frame is not available for Buy American Compliant (BAC) configurations nor EM6 options.
- 3. Consult factory for 5000K CCT (50) with narrow (N) beam.
- Dim-to-warm (D2W) available only with Z10 dimming up to 2500lm.
   Narrow (N) and medium (M) beam engines only.
- 5. DALI (D) 4800lm and 6000lm, and RA options require linear driver configuration (see page 8)
- 6. Not available for 4800lm (48) & 6000lm (60). Order T347-75VA field installed transformer
- Flex install option requires light engine (F)/trim only (up to 3500lm).
   For use only with optional 6RNSR new construction frame accessory.
   Not available with Interact (RA) dimming and IEM6 trim options. See page 3 for further details.
- 8. Retrofits select legacy luminaires (E & Z10 dimming only see pages 3 & 7).
- 9. Lensed Wall Wash (LW) not available with IEM6 integral emergency test switch (remote only).
- 10. Corner (CW) and Double (DW) are not compatible with flangeless (F) option.
- 11. Wide beam engine recommended for best performance.
- 12. 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, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.

### Round Wall Wash

### 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 for Lensed Wall Wash (LW) is 2.5" and for Open, Corner, Double Wall Wash (WW, CW, DW) is 2.75".

### Patented install Mounting frame:

- Pre-installed mounting bars for fast and toolless 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.

#### Retrofit

 Easily updates legacy Calculite downlights to the latest LED technology. Includes light engine, trim, and driver mounted on cover plate that mounts to junction box of previous Calculite generations. Order with R option code at end of light engine catalog number (see details on page 7).

### Compatibility:

Frames	Engines
With CFL S6132_series	Use Retrofit configuration C6R_ Trim + C6L_ Engine
With INC BS600_series	Use Retrofit configuration C6R_ Trim + C6L_ Engine
With LED C6L_N series C6X6L_N series P6RD N series	Use Retrofit configuration C4R_ Trim + C6L_ Engine C6S_ Trim + C6L_ Engine C6R_ Trim + C6L_ Engine

\* Not available for retrofitting luminaires with integral emergency battery.

### **Emergency**

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

- For trim with integral emergency test switch, order trim with IEM6 option (ex: C6RWWCCIEM6).
- For remote ceiling mounted test switch, order standard trim (ex: C6RWWCC). Optional accessory ceiling mounting plate available (CAEM6TSCP) for remote mounted test switch.
- Refer to Calculite-LyteProfile-EasyLyte Emergency Battery Pack specification sheet for more details.

### **Dimming**

All configurations are FCC Class A unless otherwise specified.

- Advance 0-10V 1% (Z10), logarithmic curve is standard. Specify D2O for factory-set dimto-off function, consult factory for linear dimming curve.
- EldoLED SOLODrive (SOL) 0-10v 0.1%
- Lutron PEQ0 (L) Hi-Lume Premier 0.1% EcoSystem
- · Lutron LDE1 (LO1) 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%

#### **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)
- 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:

True 50° physical cutoff and 45° reflected cutoff.

### Quality of light:

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

### MesoOptics PET optical diffusion film:

Provides a smooth beam shape and mitigates color over angle with optimized luminaire efficiency.

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

### **Options and Accessories**

Flangeless mud-in ring: Use CA6RFT for use with flangless plaster installations.

**Sloped ceilings:** Compatible with sloped ceiling adapters (see **SCA** spec sheet).

Vandal Proof: C6RVPWH includes machined aluminum ring painted white, gasketed for IP65 protection, and impact resistant polycarbonate lens (IK10). Locks in place with discrete setscrew (key included). Available also with antimicrobial fiinsh (C4RVPWHAMF).

**CAEM6TSCP:** Ceiling cover plate for remote mounted EM6 test switch.  $\frac{1}{2}$ " (25mm) hole, 4 %" (109mm) x 2 %" (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. To mount test switch to trim for new construction frame, order trim with IEM6 option code (e.g. C4RWWCCIEM6). Refer to Calculite-LyteProfile-EasyLyte Emergency Battery Pack specification sheet for more details.

**SWCS:** 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) or remodel (R) frames. Not for use with emergency options.

### Title 24 exceptions

- 1000lm & Lensed Wall Washer configurations
- Champagne Bronze & Black finishes

### **Labels and Listings**

- cULus listed for wet locations
- RoHS certified
- CEC Title 24 JA8 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.

### Round Wall Wash

# interact

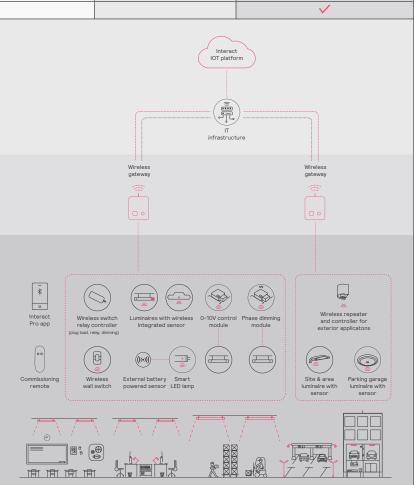
Tirelact				France has been seen as a second seco
			Gatew	vay Connected
		Standalone	Option 1	Option 2
Dimming, grouping, and zoning		<b>~</b>	<b>✓</b>	<b>~</b>
Bluetooth and ZigBee enabled		<b>/</b>	<b>✓</b>	<b>~</b>
Motion sensing and daylight harvesting		<b>✓</b>	<b>✓</b>	<b>~</b>
Integration with 0-10V and phase dimming fixtures		<b>~</b>	<b>✓</b>	<b>~</b>
Code compliance		<b>~</b>	<b>✓</b>	<b>~</b>
Granular dimming and dwell time		<b>~</b>	<b>✓</b>	<b>~</b>
Correlated color temperature (CCT) tuning by switch	New	<b>✓</b>	<b>✓</b>	<b>~</b>
Support for sensor-based Tunable White luminaires	New	<b>~</b>	<b>✓</b>	<b>~</b>
Energy reporting and monitoring			<b>✓</b>	<b>~</b>
Scheduling			<b>✓</b>	<b>~</b>
Demand response			<b>✓</b>	<b>~</b>
BMS integration (BACnet)				<b>~</b>
Floor plan visualization				<b>~</b>
IoT sensors for wellness				<b>~</b>
IoT Apps for productivity				<b>/</b>

### 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



dilato

### Round Wall Wash

### 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	-	-

### Round Wall Wash

### Reflector



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.



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



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. Provides the luminaire with an IK10 impact and IP65 rating



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).



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

### Flange



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.

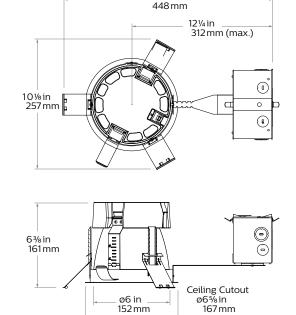


Mud-in ring (FT): Low profile, machined aluminum mud-in ring provides a raised rib to plaster up to and a 3/16" flange thickness. The ring is attached to the ceiling material as opposed to the frame-in kit to avoid conduction of heat and vibration which can cause yellowing or cracking of the plaster.

### Round Wall Wash

#### **New Construction (N)** Chicago Plenum (LC) **Emergency battery** 12% in 314 mm EM6 option on new construction non-IC frame. 81/2 in 209 mm 13¼in 337 mm 10 in 254 mm (0) 10%in 10 % in 264 mm 257 mm (0) 19%in 13%in 346mm 498 mm 141/2 in Center point location 368 mm for integral emergency test switch (IEM6) Emergency battery pack shown with EM6 option on new construction non-IC frame. 7¼in 184 mm 6¾in 161 mm 23/4 in L Indian Ceiling Cutout ø6¾in 162mm 70 mm Maximum 152 mm ceiling thickness (85 mm) ø7¾in

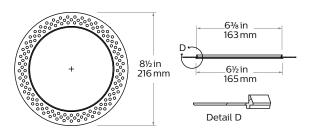
### Remodeler (R)



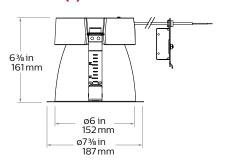
184 mm

175/s in

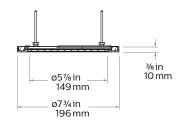
### Flangeless mud-in ring (CA6RFT) accessory



### Retrofit (R) with round trim



### Vandal Proof (VP) accessory

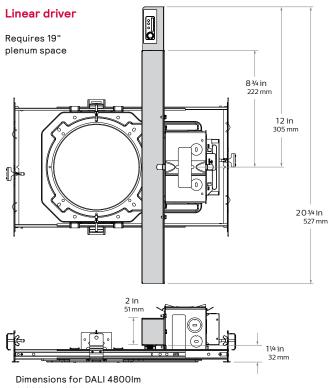


ø6 in

152 mm ø7¼in

184 mm

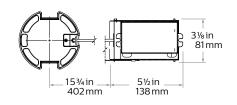
## Round Wall Wash

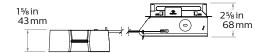


& 6000lm, & RA light engines.

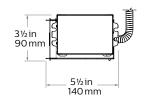
Sensor shown for RA light engine only.

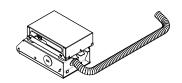
### Flex Install (F)

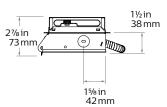




### LCEM6 Flex install (F) engine only

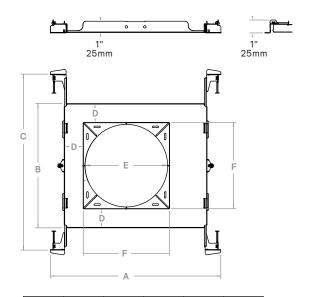






\* 12" conduit with connector to j-box knock out

### 6RNSR Flex install non-IC frame



Α	В	С	D	E	F
13 ¼"	9 5/8"	13 %"	1½"	6%"	5¾"
334mm	244mm	345mm	37mm	162mm	169mm

## Round Wall Wash

### **Electrical - Narrow**

Light	Input	Input	Input	Drive	Input	LED	THD Factor	Power Factor
engine	Volts	Freq.		Current	Power	Power	@ Max	Load
	120V	50/60Hz	0.072A	0.22A	8.6W	7.0W	<10%	>0.9
1000lm	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
	120V	50/60Hz	0.107A	0.33A	12.8W	10.7W	<10%	>0.9
1500lm	277V	50/60Hz	0.046A	0.33A	12.9W	10.7W	<10%	>0.9
	347V	50/60Hz	0.042A	0.33A	14.6W	10.7W	<25%	>0.9
	120V	50/60Hz	0.145A	0.45A	17.4W	14.7W	<10%	>0.9
2000lm	277V	50/60Hz	0.063A	0.45A	17.5W	14.7W	<10%	>0.9
	347V	50/60Hz	0.056A	0.45A	19.4W	14.7W	<20%	>0.9
	120V	50/60Hz	0.178A	0.55A	21.4W	18.2W	<10%	>0.9
2500lm	277V	50/60Hz	0.078A	0.55A	21.5W	18.2W	<10%	>0.9
	347V	50/60Hz	0.065A	0.55A	22.7W	18.2W	<20%	>0.9
	120V	50/60Hz	0.212A	0.65A	25.5W	21.7W	<10%	>0.9
3000lm	277V	50/60Hz	0.091A	0.65A	25.3W	21.7W	<10%	>0.9
	347V	50/60Hz	0.077A	0.65A	26.7W	21.7W	<15%	>0.9
	120V	50/60Hz	0.237A	0.75A	28.4W	24.4W	<10%	>0.9
3500 lm	277V	50/60Hz	0.103A	0.75A	28.4W	24.4W	<10%	>0.9
	347V	50/60Hz	0.084A	0.75A	29.1W	24.4W	<15%	>0.9
	120V	50/60Hz	0.338A	1.05A	40.5W	34.9W	<10%	>0.9
4800lm	277V	50/60Hz	0.145A	1.05A	40.3W	34.9W	<10%	>0.9
	347V	50/60Hz	0.118A	1.05A	41.0W	34.9W	<10%	>0.9
	120V	50/60Hz	0.442A	1.35A	53.0W	45.6W	<10%	>0.9
6000lm	277V	50/60Hz	0.188A	1.35A	52.1W	45.6W	<10%	>0.9
	347V	50/60Hz	0.153A	1.35A	53.0W	45.6W	<10%	>0.9

### **Electrical - Medium & Wide**

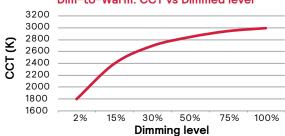
Light	Input	Input	Input	Drive	Input	LED	THD Factor	Power Factor
engine	Volts	Freq.		Current		Power	@ Max	Load
	120V	50/60Hz	0.073A	0.22A	8.7W	7.1W	<10%	>0.9
1000lm	277V	50/60Hz	0.032A	0.22A	8.9W	7.1W	<20%	>0.9
	347V	50/60Hz	0.029A	0.22A	10.2W	7.1W	<30%	>0.9
	120V	50/60Hz	0.109A	0.33A	13.0W	10.9W	<10%	>0.9
1500lm	277V	50/60Hz	0.047A	0.33A	13.1W	10.9W	<10%	>0.9
	347V	50/60Hz	0.043A	0.33A	14.9W	10.9W	<25%	>0.9
	120V	50/60Hz	0.149A	0.45A	17.8W	15.1W	<10%	>0.9
2000lm	277V	50/60Hz	0.065A	0.45A	18.0W	15.1W	<10%	>0.9
	347V	50/60Hz	0.057A	0.45A	19.8W	15.1W	<20%	>0.9
	120V	50/60Hz	0.179A	0.55A	21.4W	18.2W	<10%	>0.9
2500lm	277V	50/60Hz	0.078A	0.55A	21.6W	18.2W	<10%	>0.9
	347V	50/60Hz	0.066A	0.55A	22.8W	18.2W	<20%	>0.9
	120V	50/60Hz	0.220A	0.67A	26.4W	22.4W	<10%	>0.9
3000lm	277V	50/60Hz	0.095A	0.67A	26.2W	22.4W	<10%	>0.9
	347V	50/60Hz	0.079A	0.67A	27.5W	22.4W	<15%	>0.9
	120V	50/60Hz	0.245A	0.75A	29.4W	25.3W	<10%	>0.9
3500 lm	277V	50/60Hz	0.106A	0.75A	29.4W	25.3W	<10%	>0.9
	347V	50/60Hz	0.087A	0.75A	30.1W	25.3W	<15%	>0.9
	120V	50/60Hz	0.350A	1.08A	42.0W	36.1W	<10%	>0.9
4800lm	277V	50/60Hz	0.150A	1.08A	41.5W	36.1W	<10%	>0.9
	347V	50/60Hz	0.122A	1.08A	42.5W	36.1W	<10%	>0.9
	120V	50/60Hz	0.454A	1.38A	54.5W	46.8W	<10%	>0.9
6000lm	277V	50/60Hz	0.193A	1.38A	53.5W	46.8W	<10%	>0.9
	347V	50/60Hz	0.157A	1.38A	54.5W	46.8W	<10%	>0.9

### Lifetime (TM-21) data

Lumens	Narrow beam	Medium/Wide beam
1000lm		
1500lm		
2000lm	100 @ 60 0006	L90 @ 60,000hrs.
2500lm	L90 @ 60,000hrs.	
3500lm*		
4800lm		
6000lm	L90 @ 60,000hrs.	L80 @ 60,000hrs.

<sup>\*</sup> Lutron 3500lm with Medium/Wide beam is L85 @ 60,000hrs.

### Dim-to-Warm: CCT vs Dimmed level



### Narrow (Power over Ethernet)

	Input				
Light engine	Volts <sup>1</sup>	Voltage <sup>2</sup>	Freq	Current	Power
C6L10NPE	53V	51-54V	DC	160 mA	8.9 W
C6L15NPE	53V	51-54V	DC	250 mA	13.7 W
C6L20NPE	53V	51-54V	DC	330 mA	17.7 W
C6L25NPE	53V	51-54V	DC	420 mA	22.8 W

<sup>1.</sup> Nominal input volts. 2. Preferred volt range.

### **Medium** (Power over Ethernet)

	Input				
Light engine	Volts <sup>1</sup>	Voltage <sup>2</sup>	Freq	Current	Power
C6L10MPE	53V	51-54V	DC	160 mA	8.4 W
C6L15MPE	53V	51-54V	DC	230 mA	12.5 W
C6L20MPE	53V	51-54V	DC	310 mA	16.7 W
C6L25MPE	53V	51-54V	DC	390 mA	21.4 W

### Wide (Power over Ethernet)

	Input				
Light engine	Volts <sup>1</sup>	Voltage <sup>2</sup>	Freq	Current	Power
C6L10WPE	53V	51-54V	DC	160 mA	8.4 W
C6L15WPE	53V	51-54V	DC	230 mA	12.5 W
C6L20WPE	53V	51-54V	DC	3120 mA	16.7 W
C6L25WPE	53V	51-54V	DC	390 mA	21.4 W

### Marked spacing applications

Light engine	4800lm	6000lm
C6L_Z10 series	Х	Х
C6L_L01 series	Х	Х
C6L_L1 series	Х	Х
C6L_LD series	Х	Х

Light engine	4800lm	6000lm
C6L_LTE series	Х	Х
C6L_D series	X	Х
C6L_DMX series	Х	Х
C6L_RA series	Х	Х

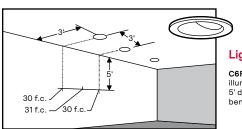
 $\label{eq:modules marked with an X require marked spacing:} Modules marked with an X require marked spacing:$ 

In accordance with CAN ICES-005-A/ NEB-005-A and FCC Part 15-A.

<sup>-</sup> Center-to-center of adjacent luminaires: 24" (610mm)

<sup>-</sup> Luminaire center to side building member: 12" (305mm)

### Round Wall Wash



### **Lighting Data - Example**

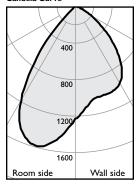
### C6RWWCL / C6L25935W

illumination on the wall 5' down from the ceiling is 30 f.c. beneath and 31 f.c. between fixtures.

### Adjustment factors

Finish	ССТ	Lumens
CL = 100% CC = 95% CD = 87% CZ = 63% WH = 87% BK = 57%	90CRI, 4000K = 102% 90CRI, 3500K = 100% 90CRI, 3000K = 96% 90CRI, 2700K = 92%	6000lm = 240% 4800lm = 192% 3500lm = 140% 3000lm = 120% 2500lm = 100% 2000lm = 80% 1500lm = 60% 1000lm = 40%

### Open Wall Wash, 2500lm Engine, 90lm/W at 22W



### 6RN / C6L25935W / C6RWWCL

Output lumens:	1986 lms
Input watts:	22.0 W
CRI:	90 min
CCT <sup>1</sup> :	3500K

Efficacy: 90.3 lm/w Report<sup>2</sup>: STMR-1837

### Multiple unit data

Footcandles on wall

	2' from wall			
	3' on ctr.			
<sub>1</sub> 1	25	19	25	
Distance from ceiling in feet 71 01 6 8 2 9 9 7 8 8 7 .	49	41	49	
<u>-</u> 3	49	47	49	
<sub>ව</sub> 4	39	40	39	
<u>≣</u> 5	29	30	29	
<u>ŏ</u> 6	22	23	22	
5 7	17	18	17	
<del>_</del> 8	13	14	13	
ပို့ ၅	11	11	11	
10 th	9	9	9	
<u>≅</u> 12	7	8	7	
14	6	6	6	

### Multiple unit data

Footcandles on wall

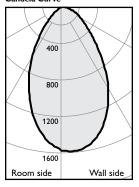
OotCandles on wall			
	3' from wall		
	4	3' on ctr	
<sub>1</sub> 1	9	8	9
Distance from ceiling in feet 71 0 6 8 2 9 9 7 8 8 7 .	21	20	21
<u>i</u> 3	32	30	32
<sub>ව</sub> 4	33	34	33
<u>=</u> 5	30	31	30
ပ္ 6	25	26	25
5 7	20	21	20
± 8	17	17	17
ပို့ 9	14	14	14
5 10	11	12	11
i≟ 12	9	10	9
14	8	8	8

### Multiple unit data

Footcandles on wall

ootoanaloo on wan				
		3' from wall		
			4' on ctr.	
ı,	1	7	6	7
Distance from ceiling in feet	2	17	13	17
Ë	2	25	21	25
ď	4	26	25	26
<b>≡</b>	5	23	24	23
õ	6	20	20	20
5	7	17	17	17
e E	8	14	14	14
2	9	12	12	12
sta	10	10	10	10
$\Box$	12	8	9	8
	14	7	8	7

### Lensed Wall Wash, 2500lm Engine, 83lm/W at 22W



### 6RN / C6L25935W / C6RLWCL

1830 lms 22.0 W 90 min 3500K
300010
90 min

Efficacy: 83.2 lm/w Report<sup>2</sup>: STMR-224 STMR-2241

### Multiple unit data

Footcandles on wall

	2' from wall			
	2	3' on ctr	. 💍	
1 ب	31	25	31	
Distance from ceiling in feet 71 0 6 8 2 9 9 7 8 8 7 .	49	42	49	
<u>-</u> 3	47	43	47	
<u>6</u> 4	39	37	39	
<u>∰</u> 5	30	30	30	
Š 6	23	23	23	
5 7	18	18	18	
± 8	14	14	14	
ပို့ 9	11	12	11	
5 10	9	10	9	
ä 12	8	8	8	
14	7	7	7	

### Multiple unit data

Footcandles on wall

1 Ootcandies on Wall			
	3' from wall		
	40	3' on ctr	. 💍
iling in feet 2	13 25 29 30 28	13 24 29 30 28	13 25 29 30 28
Distance from ceiling in feet 71 O 6 8 2 9 9 7 8 5 7 .	24 20 17 14	24 21 17 15	24 20 17 14
12 14	10 9	10 9	10 9

### Multiple unit data

Footcandles on wall

		3' from wall		
		6	4' on ctr	
_ 1		11	9	11
Distance from ceiling in feet 5 0 6 8 8 9 0 10 10 10 10 10 10 10 10 10 10 10 10 1		21	18	21
eej ui guiliee mo.		24	22	24
<u>ق</u> 4		25	23	25
∰ 5		23	22	23
<u>ة</u> 6		20	19	20
5 7		17	17	17
± 8		14	14	14
ğ 9		12	12	12
# 10	)	10	10	10
<u>≃</u> 12	:	9	9	9
14	.	8	8	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.

