



Attention to detail is perhaps the most important aspect of the Lumec **Candela LED** post top and pendant luminaires. From the European inspired nautical design to the wide range of optical systems available, to the wide assortment of complementary products that harmonize with this luminaire, no stone has been left unturned to give decision makers unprecedented flexibility and design options.

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

### Ordering guide: Luminaire

example: CAND2-65W42LED4K-G2-PC-C-RLE5-120-BKTX

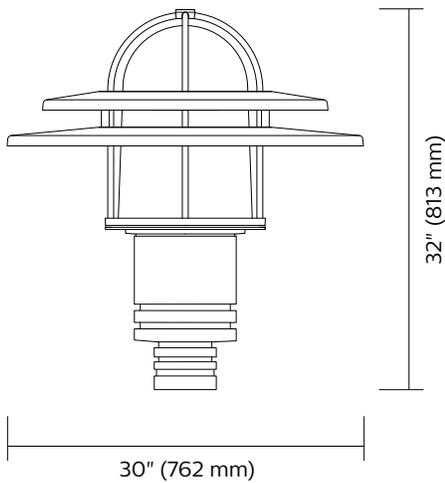
Series	LED module	Generation	Globe material	Globe finish	Optics	Voltage	Luminaire options	Poles and brackets	Finish
<b>CAND2</b>		<b>G2</b>	<b>PC</b>						
<b>CAND2</b> Candela post top	<b>3000k</b> 40W42LED3K' 65W42LED3K	G2	PC Polycarbonate	C Clear CGB Satin clear	RLE3 Type III (ASYM) RLE5 Type V (SYMM)	120 120V 208 208V 240 240V 277 277V	HS House side shield PH7 <sup>2</sup> Photoelectric cell TN2.875C 2-7/8" dia. Tenon adaptor TN3 3" dia. Tenon adaptor TN3.5 3-1/2" dia. Tenon adaptor RCD7 <sup>2</sup> Receptacle 7 pin	Consult with signify.com/ outdoorluminaires for details and the complete line of Signify poles and brackets.	BE2TX Textured Midnight Blue
	<b>4000k</b> 40W42LED4K' 65W42LED4K								BE6TX Textured Ocean Blue
									BE8TX Textured Royal Blue
									BG2TX Textured Sandstone
									BKTX Textured Black
									BRTX Textured Bronze
									GN4TX Textured Blue Green
									GN6TX Textured Forest Green
									GN8TX Textured Dark Forest Green
									GNTX Textured Green
									GR Gray Sandtex
									GY3TX Textured Medium Grey
									NP Natural Aluminum
									RD2TX Textured Burgundy
									RD4TX Textured Scarlet
									TG Hammertone Gold
									WHTX Textured White

1. Not available with RCD7.  
 2. The RCD7 is located inside the globe on top of the heat sink.

# CAND2 Candela LED Post Top

## Urban Luminaire

### Dimensions



**Width:** 30" / 76.2cm diameter  
**Height:** 32" / 81.3cm  
**EPA:** 1.85 sq. ft (*maximum*)  
**Weight:** 44 lbs / 20 kg (*maximum*)

### Predicted Lumen Depreciation Data

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L70 hours limited to 6 times actual LED test hours.

Ambient Temperature °C	Driver mA	Calculated L <sub>70</sub> Hours	L <sub>70</sub> per TM-21	Lumen Maintenance % at 54,000 hrs
25°C	500 mA	>100,000 hours	>54,000 hours	>98%

### LED Wattage and Lumen Values: Candela LED post top CAND2

Ordering Code: 3000K Clear globe	Total LEDs	LED current (mA)	Average System Wattage (W)	Type RLE3			Type RLE5		
				Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
40W42LED3K-G2-C	42	333	50	3,820	76	B1-U3-G1	4,077	81	B3-U2-G1
65W42LED3K-G2-C	42	500	70	4,892	70	B2-U3-G2	5,579	80	B3-U2-G1

Ordering Code: 3000K Satin clear globe	Total LEDs	LED current (mA)	Average System Wattage (W)	Type RLE3			Type RLE5		
				Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
40W42LED3K-G2-CGB	42	333	50	2,649	53	B1-U3-G2	2,778	55	B2-U3-G3
65W42LED3K-G2-CGB	42	500	70	3,393	48	B1-U3-G3	3,801	54	B2-U3-G3

Actual performance may vary due to installation variables including optics, mounting/ceiling height, dirt depreciation, light loss factor, etc.; highly recommended to confirm performance with a layout - contact Applications at [signify.com/outdoorluminares](http://signify.com/outdoorluminares).  
**Note:** Some data may be scaled based on tests of similar. But not identical luminaires.

# CAND2 Candela LED Post Top

## Urban Luminaire

### LED Wattage and Lumen Values: Candela LED post top CAND2 continued

Ordering Code: 4000K Clear globe	Total LEDs	LED current (mA)	Average System Wattage (W)	Type RLE3			Type RLE5		
				Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
40W42LED4K-G2-C	42	333	50	4,081	81	B1-U3-G2	4,356	87	B3-U2-G1
65W42LED4K-G2-C	42	500	70	5,584	80	B2-U3-G2	5,960	85	B3-U2-G2

Ordering Code: 4000K Satin clear globe	Total LEDs	LED current (mA)	Average System Wattage (W)	Type RLE3			Type RLE5		
				Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
40W42LED4K-G2-CGB	42	333	50	2,830	56	B1-U3-G3	2,968	59	B2-U3-G2
65W42LED4K-G2-CGB	42	500	70	3,872	55	B1-U3-G3	4,060	58	B2-U3-G3

Actual performance may vary due to installation variables including optics, mounting/ceiling height, dirt depreciation, light loss factor, etc.; highly recommended to confirm performance with a layout - contact Applications at [signify.com/outdoorluminares](mailto:signify.com/outdoorluminares).  
**Note:** Some data may be scaled based on tests of similar. But not identical luminaires.

### Specifications:

#### Housing

In a round shape, this housing is made of cast 356 aluminum, c/w a watertight grommet, mechanically assembled to the bracket with four bolts 3/8-16 UNC. This suspension system permits for a full rotation of the luminaire in 90 degree increments.

**Guard:** In a round shape, this guard is made of 6063 T5 aluminum 1/2" (13mm) rods and is mechanically assembled to the access mechanism.

**Skirt:** Spun 1100 O aluminum, mechanically assembled on the luminaire.

**Access-Mechanism:** Rotomatic, die cast A360 aluminum quarter turn mechanism with constant pressure spring loaded points. The mechanism shall offer tool free access to the inside of the luminaire. An embedded memory retentive gasket shall ensure weatherproofing. A red key on the unit shall indicate point of engagement.

**Globe:** (PC C), Made of one piece seamless injection molded clear polycarbonate. (PC CGB), Made of one piece seamless injection molded clear finish with internal glass bead blast giving a soft diffusing lighting effect. polycarbonate The globe is assembled on the access mechanism.

**Fitter:** Cast aluminum 356 c/w 4 set screws 3/8 16 UNC. Fits on a 4"(102mm) outside diameter by 4"(102mm) long tenon

#### LED Engine

Rotomatic tool-free system composed of 4 main components: Heat Sink / LED Module / Optical System / Driver. Electrical components are RoHS compliant. Composed of 42 high-performance white LEDs. Color temperature as per ANSI/NEMA bin Neutral White, 4000 Kelvin nominal (3985K+/- .275K or 3710K to 4260K) or Warm white, 3000 Kelvin nominal (3045K +/- 175K or 2870K to 3220K), CRI 70 Min. 75 Typical.

#### Heat sink

Made of extruded aluminum optimizing the LEDs efficiency and life. Product does not use any cooling device with moving parts (only passive cooling device)

#### Optical System

Type 3 and Type 5. Composed of high-performance acrylic lenses to achieve optimized distribution and get maximum spacing. Target lumens will create a perfect lighting uniformity. Performance shall be tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance. Painted color grey.

#### Driver

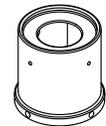
High power factor of 90%. Electronic driver, operating range 50/60 Hz. Auto-adjusting to a voltage between 120 and 277 volt AC rated for both application line to line or line to neutral, Class II, THD of 20% max. Maximum ambient operating temperature from -40F(-40C) to 130F(55C) degrees. Assembled on a unitized removable tray with Tyco quick disconnect plug resisting to 221F(105C) degrees.

#### Luminaire Options

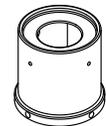
**RCD7**  
Receptacle  
7-pins.



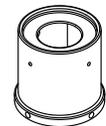
**TN2.875C:**  
Fitter to fit over a 3" (76 mm)  
O.D. by 4" (102 mm) long  
tenon



**TN3:**  
Fitter to fit over a 3" (76 mm)  
O.D. by 4" (102 mm) long  
tenon



**TN3.5:**  
Fitter to fit over a 3 1/2" (89  
mm) O.D. by 4" (102 mm)  
long tenon



# CAND2 Candela LED Post Top

## Urban Luminaire

### Specification (continued)

#### Surge protection

Surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line Ground, Line Neutral and Neutral Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid State Street Lighting Consortium) model specification for LED roadway luminaires electrical immunity requirements for High Test Level 10kV / 10kA.

#### Luminaire useful life

Refer to IES files for energy consumption and delivered lumens for each option. Based on ISTMT in situ thermal testing in accordance with UL1598 and UL8750, using LM-80 data from LED manufacturers and engineering prediction methods, the luminaire useful life is expected to reach 100,000+ hours with >L70 lumen maintenance @ 25°C Luminaire useful life accounts for LED lumen maintenance and additional factors, including LED life, driver life, PCB substrate, solder joints on/off cycles and burning hours for nominal applications.

#### Hardware

All exposed screws shall be complete with Ceramic primer-seal basecoat to reduce seizing of the parts and offers a high resistance to corrosion. All seals and sealing devices are made and/or lined with EPDM and/or silicone and/or rubber.

#### Wiring

Gauge (#14) TEW/AWM 1015 or 1230 wires, 6" (152mm) minimum exceeding from luminaire

#### Options

HS House side shield

#### Finish

Color to be in accordance with the AAMA 2603 standard. Application of polyester powder coat paint (4 mils/100 microns) with  $\pm 1$  mils/24 microns of tolerance. The Thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as luster retention in keeping with the ASTM D523 standard and humidity proof in accordance with the ASTM D2247 standard.

The surface treatment achieves a minimum of 2000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard.

#### LED products manufacturing standard

Electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with IEC61340 5 1 and ANSI/ ESD S20.20 standards so as to eliminate ESD events that could decrease the useful life of the product.

#### Quality Control

The manufacturer must provide a written confirmation of its ISO 9001 2008 and ISO 14001 2004 International Quality Standards Certification.

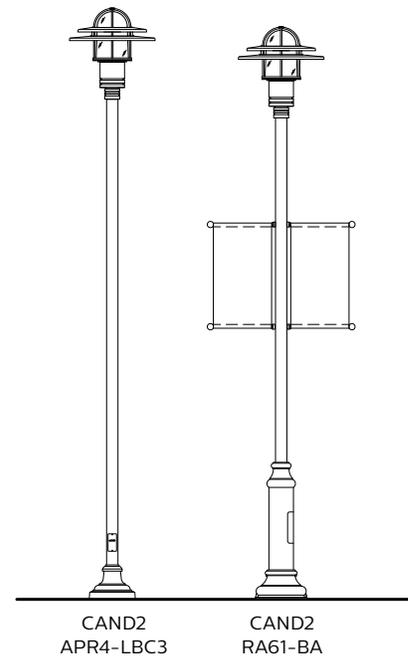
#### Certifications and Compliance

cULus listed to Canadian safety standards for wet locations. Manufactured to ISO 9001:2008 Standards. UL8750 and UL1598 compliant. UL listed to U.S. safety standards for wet locations. LM80 & LM79 tested. Listed on the DesignLights™ Consortium (DLC) Qualified Products List (QPL).

#### Warranty

5 year extended warranty.

### Assembly examples



Consult [signify.com/outdoorluminaires](http://signify.com/outdoorluminaires) for details and the complete line of Signify poles and brackets.

