



L80



L81



Lumec LED **contemporary lantern** luminaires bring the lantern style of design into the 21st century. It offers unique lighting that is at once timeless and intimate. Whether in public places or pedestrian spaces, the LED **contemporary lantern** luminaires are able to accentuate traditional as well as modern architectural environments

Project: \_\_\_\_\_

Location: \_\_\_\_\_

Cat.No: \_\_\_\_\_

Type: \_\_\_\_\_

Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_

Notes: \_\_\_\_\_

### Luminaire ordering guide

Example: L80-35W32LED4K-T-PC-CS-LE5-120-DMG-SFO-BKTX

Series	LED module		Lamp type	Globe material	Globe finish	Optical system	Ballast	Driver	Adapter	Luminaire option	Finish
<input type="text"/>	<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
L80 L81	<b>3000K</b>	<b>4000K</b>	T	PC	CS	LE2 LE3 LE4 LE5	120 208 240 277 347 480	AST <sup>2</sup> CDMG <sup>2</sup> CLO <sup>2</sup> DMG OTL <sup>2</sup>	SF2 SF3 SF70 SF71 SF72 SF73 SF80 SFO SFS	BO <sup>1</sup> FN1 FN2 FN3 FN5 FN6 FN7 FN8 FN9 FN10 HS <sup>3</sup> OVR <sup>4</sup> PH7 SP2	BE2TX BE6TX BE8TX BG2TX BKTX BRTX GN4TX GN6TX GN8TX GNTX GR GY3TX NP RD2TX RD4TX TG TS WHTX

- BO is only available with L80.
- 347-480V not available.
- HS not available with LE5.
- CDMG Driver Options is required for OVR.

### Motion Response\* (must be ordered as a separate line item) Example: ACC-120-MR4PGI-BKTX

Accessory	Voltage		Motion Response module	Finish
<input type="text"/>	<input type="text"/>		<input type="text"/>	<input type="text"/>
ACC	120	120 volt	MR4PG1 Single grey	Consult Lumec's Color Chart for complete specifications.
	277	120 volt	MR4PG2 Double grey	
			MR4PW1 Single white	
			MR4PW2 Double white	

\*OVR option is required for Motion Response Accessory

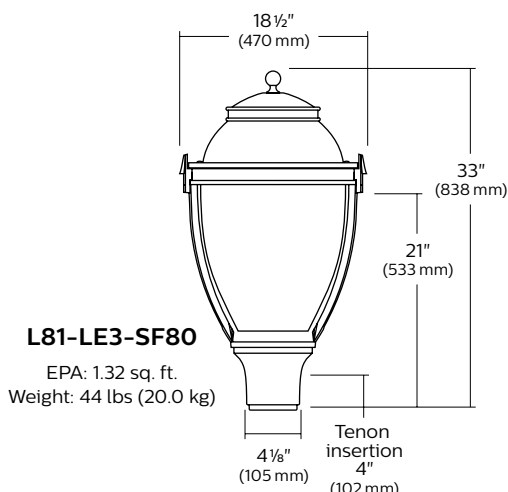
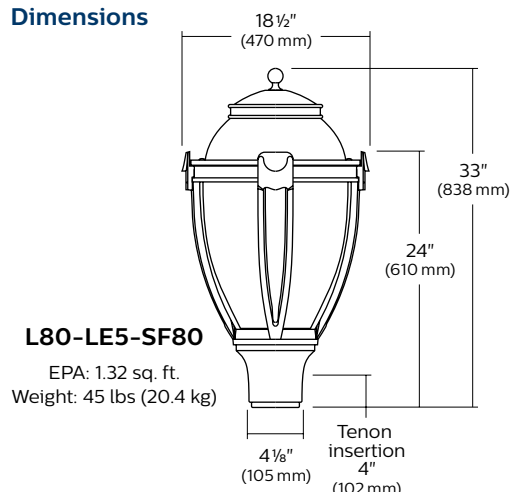
# L80-L81 Contemporary Lantern LED

## Urban Luminaire

### Features

1. Constructed from top-quality materials, the Contemporary Lantern LED maintains excellent performance in even the most demanding environments.
2. Type LE2, LE3, LE4 and LE5 optic distributions are available to meet a range of lighting applications.
3. Polycarbonate globe has satin-finish to gently obscure the source without compromising photometry.
4. Tool free access to lamp and electrical components for ease of maintenance.
5. Unique styling merges traditional and contemporary design.

### Dimensions



### LED Wattage and Lumen Values

Ordering Code: (3000K)	Total LEDs	System current (mA)	Average System Watt- age¹ (W)	LE2			LE3			LE4			LE5		
				Lumen Output²	Efficacy (LPW)	BUG Rating	Lumen Output²	Efficacy (LPW)	BUG Rating	Lumen Output²	Efficacy (LPW)	BUG Rating	Lumen Output²	Efficacy (LPW)	BUG Rating
30W16LED3K-T	16	700	38	2272	59.8	B1-U3-G1	2256	59.4	B1-U3-G1	2253	59.3	B1-U3-G1	2297	60.4	B2-U2-G1
35W32LED3K-T	32	350	37	2558	69.1	B1-U3-G1	2537	68.6	B1-U3-G1	2537	68.6	B1-U3-G1	2587	69.9	B2-U2-G1
48W16LED3K-T	16	1050	55	3130	56.9	B1-U3-G1	3107	56.5	B1-U3-G1	3104	56.4	B1-U3-G1	3165	57.5	B2-U3-G1
55W32LED3K-T	32	530	55	3719	67.6	B1-U3-G1	3691	67.1	B1-U3-G1	3688	67.1	B1-U3-G1	3760	68.4	B3-U3-G1
70W64LED3K-T	64	350	73	5026	68.8	B1-U3-G1	4991	68.4	B1-U3-G1	4985	68.3	B1-U3-G2	5082	69.6	B3-U3-G2
72W32LED3K-T	32	700	73	4650	63.7	B1-U3-G1	4616	63.2	B1-U3-G1	4612	63.2	B1-U3-G2	4702	64.4	B3-U3-G2
80W48LED3K-T	48	530	81	5418	66.9	B1-U3-G1	5387	66.5	B1-U3-G2	5374	66.3	B1-U3-G2	5479	67.6	B3-U3-G2

Ordering Code: (4000K)	Total LEDs	System current (mA)	Average System Watt- age¹ (W)	LE2			LE3			LE4			LE5		
				Lumen Output²	Efficacy (LPW)	BUG Rating	Lumen Output²	Efficacy (LPW)	BUG Rating	Lumen Output²	Efficacy (LPW)	BUG Rating	Lumen Output²	Efficacy (LPW)	BUG Rating
30W16LED4K-T	16	700	38	2550	67.1	B1-U3-G1	2530	68.4	B1-U3-G1	2529	66.6	B1-U3-G1	2578	67.8	B2-U2-G1
35W32LED4K-T	32	350	37	2868	77.5	B1-U3-G1	2847	76.9	B1-U3-G1	2845	76.9	B1-U3-G1	2900	78.4	B2-U2-G1
48W16LED4K-T	16	1050	55	3514	63.9	B1-U3-G1	3486	61.2	B1-U3-G1	3485	63.4	B1-U3-G1	3554	64.6	B3-U2-G1
55W32LED4K-T	32	530	55	4168	75.8	B1-U3-G1	4142	75.3	B1-U3-G1	4134	75.2	B1-U3-G2	4215	76.6	B3-U2-G1
70W64LED4K-T	64	350	73	5639	77.2	B1-U3-G1	5600	76.7	B1-U3-G2	5593	76.6	B1-U3-G2	5702	78.1	B3-U2-G2
72W32LED4K-T	32	700	73	5214	71.4	B1-U3-G1	5177	71.9	B1-U3-G2	5171	70.8	B1-U3-G2	5272	72.2	B3-U2-G2
80W48LED4K-T	48	530	81	6080	75.1	B1-U3-G1	6044	74.6	B1-U3-G2	6030	74.4	B1-U3-G2	6148	75.9	B3-U3-G2

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.

# L80-L81 Contemporary Lantern LED

## Urban Luminaire

### Specifications

#### Hood

A die cast A360.1 aluminum dome, mechanically assembled on the luminaire.

#### Globe (PC)

Made of one-piece seamless injected-molded satin clear polycarbonate. The globe is assembled on the access-mechanism.

**CS:** Satin clear polycarbonate.

#### Fitter

Made of cast aluminum 356 c/w 4 set screws 3/8-16 UNC. Fits on a 4" (102mm) outside diameter by 4" (102mm) long tenon.

#### Adaptors



SF80 SFO SFS



SF70 SF72 SF73

#### Light engine

Light engine composed of 3 main components: LED / Optical System / Driver Electrical components are RoHS compliant.

#### Heat sink

Made of cast aluminum optimizing the LED's efficiency and life. Product does not use any cooling device with moving parts (only passive cooling device).

#### LED module

Composed of 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.

#### Optical system

**LE2** (type II asymmetrical), **LE3** (type III asymmetrical), **LE4** (type IV asymmetrical) or **LE5** (type V symmetrical) light distributions. Composed of high-performance optical grade PMMA acrylic refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. Optical system is rated IP66. Performance shall be tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance. Street side indicated.

#### Driver

Driver comes with dimming compatible 0-10 volts. High power factor of 95%. Electronic driver, operating range 50/60 Hz.

**120 to 277 or 347 to 480:** Auto-adjusting universal voltage input from 120 to 277 or 347 to 480 VAC rated for both application line to line or line to neutral, Class I, THD of 20% max. Maximum ambient operating temperature from -40° F (-40° C) to 130° F (55° C) degrees. Certified in compliance to UL1310 cULus requirement. Dry and damp location. Assembled on a unitized removable tray with Tyco quick disconnect plug resisting to 221F(105C) degrees. The current supplying the LEDs will be reduced by the driver if the driver experiences internal overheating as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction. Standard built-in driver surge protection of 2.5kV (min).

#### Surge protector

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 Urban luminaires electrical immunity requirements for High Test Level 10kV / 10kA.

#### Driver options

**AST:** Pre-set driver for progressive start-up of the LED module(s) to optimize energy management and enhance visual comfort at start-up.

**CLO:** Pre-set driver to manage the lumen depreciation by adjusting the power given to the LEDs offering the same lighting intensity during the entire lifespan of the LED module.

**DMG:** Dimmable driver 0-10V.

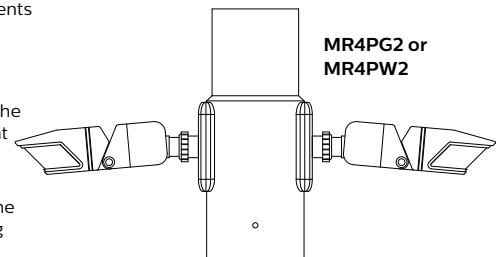
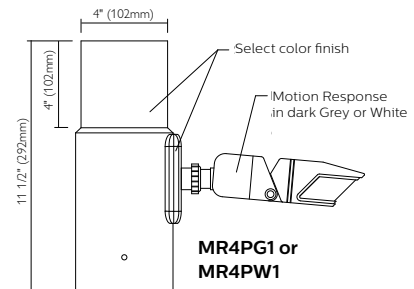
**OTL:** Pre-set driver to signal end of life of the LED module(s) for better fixture management.

**CDMG:** Dynadimmer standard dimming functionalities including pre-programmed scenarios to suit many applications and needs from safety to maximum energy savings.

Order Code	Scenario	Dim. Time	Dim. Level
CDMG525	Safety	4 hours	25% power
CDMG550	Safety	4 hours	50% power
CDMG575	Safety	4 hours	75% power
CDMGM25	Median	6 hours	25% power
CDMGM50	Median	6 hours	50% power
CDMGM75	Median	6 hours	75% power
CDMGE25	Economy	8 hours	25% power
CDMGE50	Economy	8 hours	50% power
CDMGE75	Economy	8 hours	75% power

#### Luminaire accessories

**Motion Response:** Tenon mount motion response provides 270° coverage on an adjustable knuckle. The coverage equals to up to 6 times the sensor height. It is an option offered jointly with the Dynadimmer OVR option, that can bring the light up to 100% when the motion response is triggered. It is available in a single or double mounting option. Finish options for the motion response device are white or dark gray. Finish options for the tenon must be specified to match the luminaire and pole. The tenon mount is fully rotatable 360°. This option is available for a 4" OD x 4" long tenon. See instruction sheet for time setting functionality (12 second to 16 minute turn off options) and for mounting instructions.



#### Luminaire options

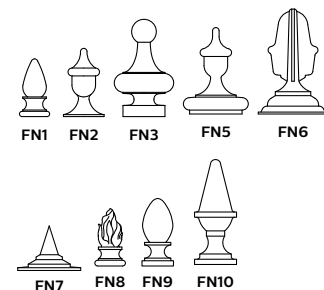
**HS:** House side shield

**OVR:** Dynadimmer override function

**PH7:** Photoelectric cell

**BO:** Bridge and overpass

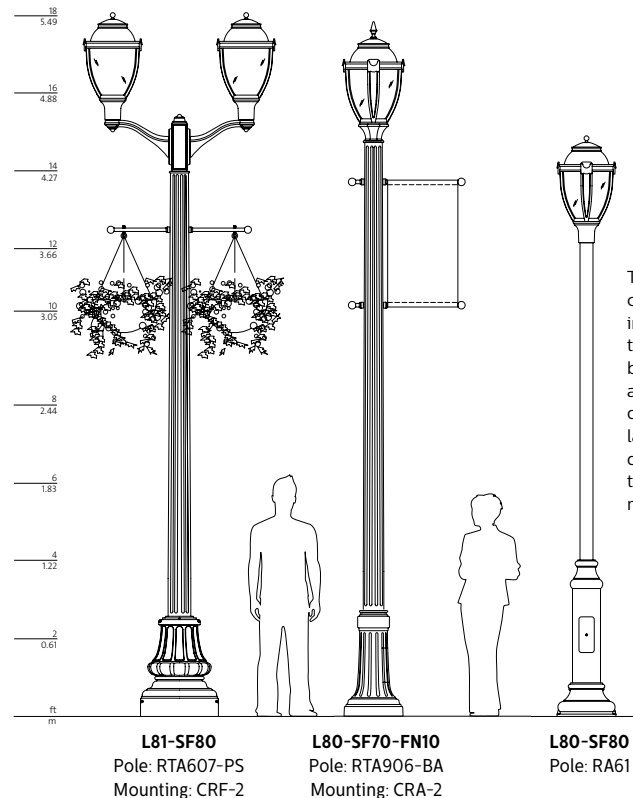
**FN:** Decorative finial (see below)



# L80-L81 Contemporary Lantern LED

## Urban Luminaire

### Specifications



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

### LED Performance

Predicted lumen depreciation data <sup>1</sup>				
Ambient Temperature (°C)	Driver mA	Calculated L <sub>70</sub> hours <sup>1,2</sup>	L <sub>70</sub> per TM-21 <sup>2,3</sup>	Lumen Maintenance % @ 60,000 hours
25°C	700 mA	>100,000	>60,000	85%

1. 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.
2. L<sub>70</sub> is the predicted time when LED performance depreciates to 70% of initial lumen output.
3. Calculated per IESNA TM21-11. Published L<sub>70</sub> hours limited to 6 times actual LED test hours.

