LUMEC
by signify

# Urban

## Contempory Lantern

## L80/L81
Post Top


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-G3-PC-CS-LE5-120-DMG-SFO-BKTX

| Series | LED module | Generation | Globe material | Globe finish | Optical system | Ballast | Driver Options | Fitter | Luminaire option | Finish |
|---|---|---|---|---|---|---|---|---|---|---|
| | | G3 | PC | CS | | | | | | |
| **L80**<br>**L81** | **3000K**<br>**30W16LED3K**[2]<br>**35W32LED3K**[2]<br>**48W16LED3K**[2]<br>**55W32LED3K**<br>**70W64LED3K**<br>**72W32LED3K**<br>**80W48LED3K**<br><br>**4000K**<br>**30W16LED4K**[2]<br>**35W32LED4K**[2]<br>**48W16LED4K**[2]<br>**55W32LED4K**[2]<br>**70W64LED4K**<br>**72W32LED4K**<br>**80W48LED4K** | **G3** | **PC** | **CS** | **LE2**<br>**LE3**<br>**LE4**<br>**LE5** | **120**<br>**208**<br>**240**<br>**277**<br>**347**<br>**480** | **AST**[2]<br>**CDMG**[2]<br>**CLO**[2]<br>**DMG**<br>**OTL**[2]<br>**DALI**[2]<br>**SRD**[2]<br>Sensor ready driver, standard configuration<br>**SRD1**[2]<br>Sensor ready driver, alternate configuration | **SF2**<br>**SF3**<br>**SF70**<br>**SF71**<br>**SF72**<br>**SF73**<br>**SF80**<br>**SFS** | **BO**[1]<br>**FN1**<br>**FN2**<br>**FN3**<br>**FN5**<br>**FN6**<br>**FN7**<br>**FN8**<br>**FN9**<br>**FN10**<br>**HS**[3]<br>**OVR**[4]<br>**PH7**<br>**SP2**<br>**RCD7**[4]<br>Receptacle 7-pin | **BE2TX**<br>**BE6TX**<br>**BE8TX**<br>**BG2TX**<br>**BKTX**<br>**BRTX**<br>**GN4TX**<br>**GN6TX**<br>**GN8TX**<br>**GNTX**<br>**GR**<br>**GY3TX**<br>**NP**<br>**RD2TX**<br>**RD4TX**<br>**TG**<br>**TS**<br>**WHTX** |

1. BO is only available with L80.
2. 347-480V not available.
3. HS not available with LE5.
4. CDMG Driver Options is required for OVR.
5. The RCD7 is located on top of the fitter, inside the globe.

## Motion Response* (must be ordered as a separate line item)

Example: ACC-120-MR4PGI-BKTX

| Accessory | Voltage | Motion Response module | Finish |
|---|---|---|---|
| ACC | | | |
| | **120** 120 volt<br>**277** 120 volt | **MR4PG1** Single grey<br>**MR4PG2** Double grey<br>**MR4PW1** Single white<br>**MR4PW2** Double white | Consult Lumec's Color Chart for complete specifications. |

*OVR option is required for Motion Response Accessory

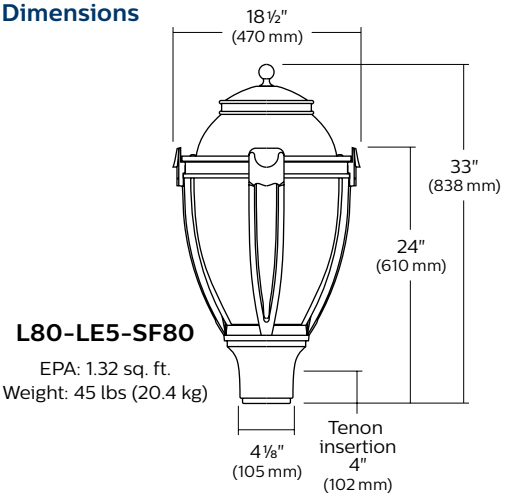
# L80–L81 Contemporary Lantern LED

## Urban Luminaire

### Features

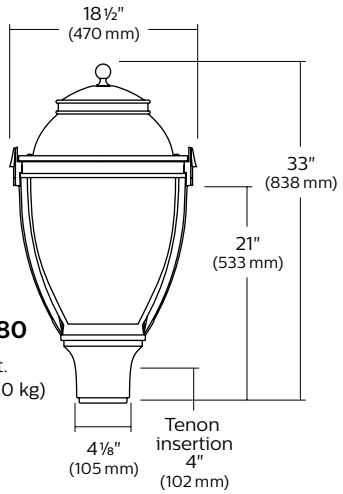
1. Constructed from top-quality materials, the Contemporary Lantern LED maintains excellent performance in even the most demanding environments.
2. Type LE2, LE3, LE4 and LE5 optic distributions are available to meet a range of lighting applications.
3. Polycarbonate globe has satin-finish to gently 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




**L80-LE5-SF80**

EPA: 1.32 sq. ft.
Weight: 45 lbs (20.4 kg)




**L81-LE3-SF80**

EPA: 1.32 sq. ft.
Weight: 44 lbs (20.0 kg)

### LED Wattage and Lumen Values: for L80

| Ordering Code: | Total LEDs | LED current (mA) | Average System Wattage (W) | 2 | | | 3 | | | 4 | | | 5 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Lumen Output | Efficacy (LPW) | BUG Rating | Lumen Output | Efficacy (LPW) | BUG Rating | Lumen Output | Efficacy (LPW) | BUG Rating | Lumen Output | Efficacy (LPW) | BUG Rating |
| **3000K** | | | | | | | | | | | | | | | |
| **L80-30W16LED3K-G3-x** | 16 | 700 | 37 | 3053 | 83 | B1-U3-G1 | 3044 | 82 | B1-U3-G1 | 3032 | 82 | B1-U3-G1 | 3018 | 82 | B2-U3-G1 |
| **L80-35W32LED3K-G3-x** | 32 | 350 | 36 | 3437 | 95 | B1-U3-G1 | 3423 | 95 | B1-U3-G1 | 3414 | 95 | B1-U3-G1 | 3399 | 94 | B2-U3-G1 |
| **L80-48W16LED3K-G3-x** | 16 | 1050 | 54 | 4206 | 78 | B1-U3-G1 | 4192 | 78 | B1-U3-G1 | 4177 | 77 | B1-U3-G2 | 4158 | 77 | B3-U3-G1 |
| **L80-55W32LED3K-G3-x** | 32 | 530 | 53 | 4997 | 94 | B1-U3-G1 | 4980 | 94 | B1-U3-G1 | 4963 | 94 | B1-U3-G2 | 4940 | 93 | B3-U3-G1 |
| **L80-70W64LED3K-G3-x** | 64 | 350 | 68 | 6753 | 99 | B1-U3-G2 | 6734 | 99 | B1-U3-G2 | 6709 | 99 | B1-U3-G2 | 6677 | 98 | B3-U3-G2 |
| **L80-72W32LED3K-G3-x** | 32 | 700 | 72 | 6248 | 87 | B1-U3-G1 | 6228 | 87 | B1-U3-G2 | 6207 | 86 | B1-U3-G2 | 6178 | 86 | B3-U3-G2 |
| **L80-80W48LED3K-G3-x** | 48 | 530 | 80 | 7280 | 91 | B1-U3-G2 | 7268 | 91 | B1-U3-G2 | 7233 | 90 | B1-U3-G2 | 7199 | 90 | B3-U3-G2 |
| **4000K** | | | | | | | | | | | | | | | |
| **L80-30W16LED4K-G3-x** | 16 | 700 | 37 | 3206 | 87 | B1-U3-G1 | 3196 | 86 | B1-U3-G1 | 3184 | 86 | B1-U3-G1 | 3169 | 86 | B2-U3-G1 |
| **L80-35W32LED4K-G3-x** | 32 | 350 | 36 | 3609 | 100 | B1-U3-G1 | 3594 | 100 | B1-U3-G1 | 3585 | 100 | B1-U3-G1 | 3569 | 99 | B3-U3-G1 |
| **L80-48W16LED4K-G3-x** | 16 | 1050 | 54 | 4416 | 82 | B1-U3-G1 | 4402 | 82 | B1-U3-G1 | 4386 | 81 | B1-U3-G2 | 4366 | 81 | B3-U3-G1 |
| **L80-55W32LED4K-G3-x** | 32 | 530 | 53 | 5247 | 99 | B1-U3-G1 | 5229 | 99 | B1-U3-G2 | 5211 | 98 | B1-U3-G2 | 5187 | 98 | B3-U3-G2 |
| **L80-70W64LED4K-G3-x** | 64 | 350 | 68 | 7091 | 104 | B1-U3-G2 | 7071 | 104 | B1-U3-G2 | 7044 | 104 | B1-U3-G2 | 7011 | 103 | B3-U3-G2 |
| **L80-72W32LED4K-G3-x** | 32 | 700 | 72 | 6560 | 91 | B1-U3-G2 | 6539 | 91 | B1-U3-G2 | 6517 | 91 | B1-U3-G2 | 6487 | 90 | B3-U3-G2 |
| **L80-80W48LED4K-G3-x** | 48 | 530 | 80 | 7644 | 96 | B2-U3-G2 | 7631 | 95 | B1-U3-G2 | 7595 | 95 | B1-U3-G2 | 7559 | 94 | 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 outdoorlighting.applications@signify.com.
**Note:** Some data may be scaled based on tests on similar but not identical luminaires.

# L80-L81 Contemporary Lantern LED

## Urban Luminaire

## Specifications

### Hood

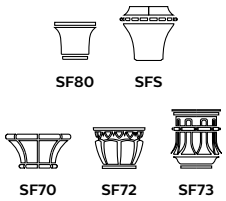
A die cast A360.1 aluminum dome, mechanically assembled on the luminaire.

### 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.




### 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.

**DALI:** Pre-set driver compatible with DALI contorl system.

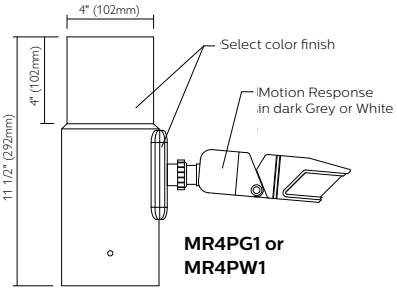
**SRD:** Sensor Ready Driver including SR communication (used for dimming and other functionalities), 24V auxiliary supply and a logical signal input (LSI) connected to the top NEMA twist lock receptacle.

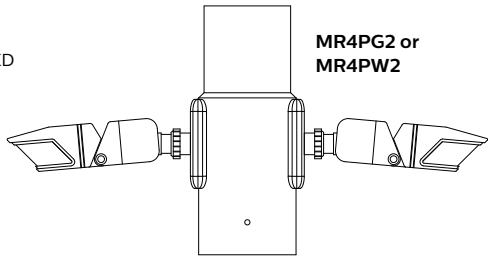
**SRD1:** Sensor Ready Driver including SR communication (used for dimming and other functionalities) but with 24V auxiliary supply and a logical signal input (LSI) not connected to the top NEMA twist lock.

| Order Code | Scenario | Dim. Time | Dim. Level |
|---|---|---|---|
| **CDMGS25** | Safety | 4 hours | 25% power |
| **CDMGS50** | Safety | 4 hours | 50% power |
| **CDMGS75** | 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 270º 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

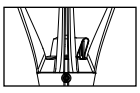
**OVR:** Dynadimmer override function

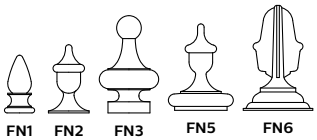
**PH7:** Photoelectric cell

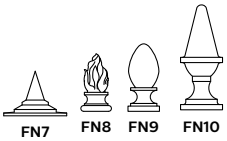
**BO:** Bridge and overpass

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

**RCD7**
Receptacle
7-pins.



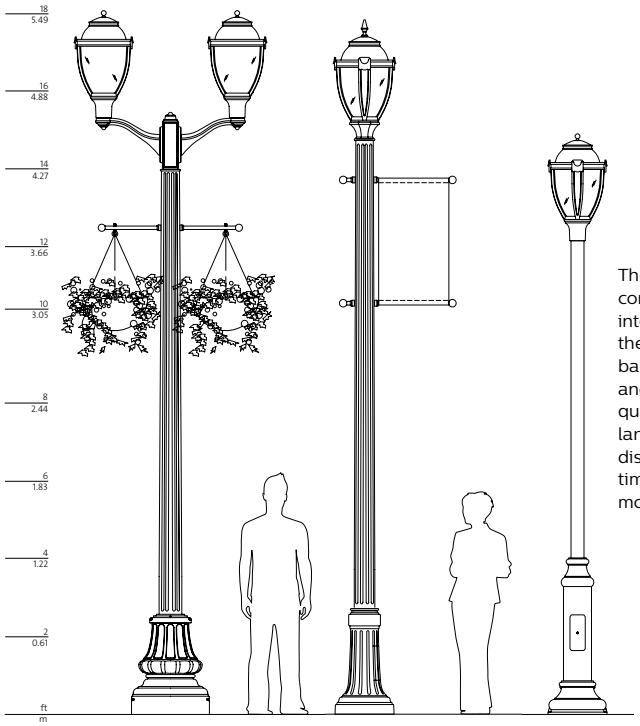


# L80-L81 Contemporary Lantern LED

## Urban Luminaire

### Specifications




**L81-SF80**
Pole: RTA607-PS
Mounting: CRF-2

**L80-SF70-FN10**
Pole: RTA906-BA
Mounting: CRA-2

**L80-SF80**
Pole: RA61

The ornamental crown projects confidence and drops down into pure sleek lines around the cage, providing a perfect balance of modern architecture and old world charm. Without question, the contemporary lantern luminaires offer a discerning quality that adds a timeless finishing touch to the most beautiful installations.

Consult signify.com/outdoorluminaires for details and the complete line of Signify poles and brackets.

### LED Performance

| Predicted lumen depreciation data[1] | | | | |
|---|---|---|---|---|
| Ambient Temperature (°C) | Driver mA | Calculated $L_{70}$ hours[1,2] | $L_{70}$ per TM-21[2,3] | 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. $L_{70}$ is the predicted time when LED performance depreciates to 70% of initial lumen output.
3. Calculated per IESNA TM21-11. Published $L_{70}$ hours limited to 6 times actual LED test hours.



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