



Lumec **L40U** LED post top luminaire create a warm and friendly ambiance with its design while at the same time offering high-end technology and photometric performance. Evoking a distinguished touch of yesteryear, the **L40U** LED post top lantern delivers an encompassing light that is warm and safe. The blend of form and function makes this luminaire an excellent choice for any environment.

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

### Ordering guide

example: L40U-72W32LED4K-G2-ACDR-C-LE3-120-DMG-SFR-RC-HS-GN8TX

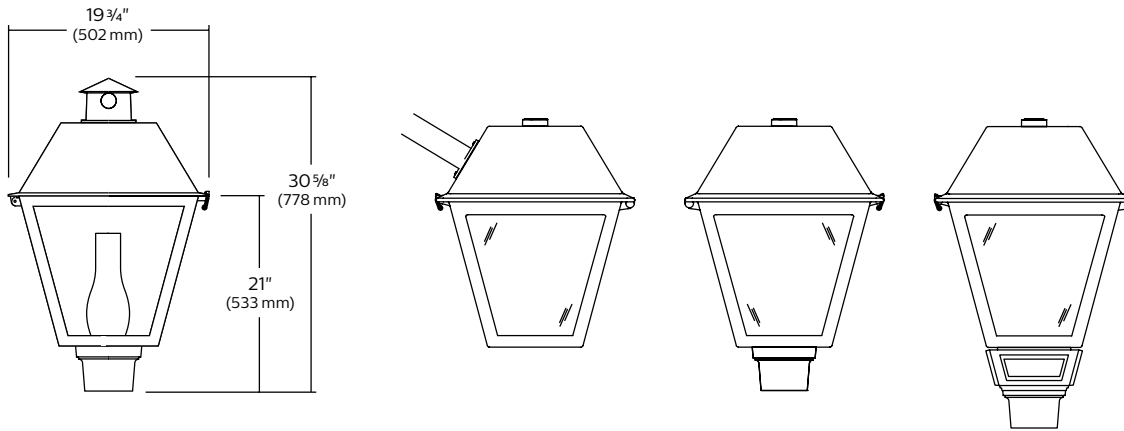
Series	LED module	Gen.	Globe material	Globe finish	Optical system	Voltage	Driver options	Adapter	Luminaire options	Poles / Brackets	Finish
<b>L40U</b>		<b>G2</b>		<b>C</b>				<b>SFR</b>	<b>RC</b>		
<b>L40U</b>	<b>3000K</b> 35W32LED3K 55W32LED3K 55W48LED3K 72W32LED3K 80W48LED3K 108W48LED3K  <b>4000K</b> 35W32LED4K 55W32LED4K 55W48LED4K 72W32LED4K 80W48LED4K 108W48LED4K	G2 Gen2	<b>ACDR</b> Acrylic Globe  <b>PC</b> Poly- carbonate	<b>C</b> Clear Globe	<b>LE2</b> Type II (ASYM)  <b>LE3</b> Type III (ASYM)  <b>LE4</b> Type IV (ASYM)  <b>LE5<sup>1</sup></b> Type V (SYM)	<b>120</b>  <b>208</b>  <b>240</b>  <b>277</b>  <b>347</b>  <b>480</b>	<b>AST<sup>2</sup></b> Pre-set driver for progressive start-up  <b>CDMGE25<sup>2</sup></b> (2) 8 hrs. 25% reduction  <b>CDMGE50<sup>2</sup></b> (2) 8 hrs. 50% reduction  <b>CDMGE75<sup>2</sup></b> (2) 8 hrs. 75% reduction  <b>CDMGM25<sup>2</sup></b> (2) 6 hrs. 25% reduction  <b>CDMGM50<sup>2</sup></b> (2) 6 hrs. 50% reduction  <b>CDMGM75<sup>2</sup></b> (2) 6 hrs. 75% reduction  <b>CDMGS25<sup>2</sup></b> (2) 4 hrs. 25% reduction  <b>CDMGS50<sup>2</sup></b> (2) 4 hrs. 50% reduction  <b>CDMGS75<sup>2</sup></b> (2) 4 hrs. 75% reduction  <b>DMG</b> 0-10V  <b>CLO<sup>2</sup></b> Pre-set driver to manage lumen depreciation  <b>OTL<sup>2</sup></b> Pre-set driver to signal end of life of the lamp  <b>SRD<sup>2</sup></b> Sensor ready driver (standard configuration)  <b>SRD1<sup>2</sup></b> Sensor ready driver (alternate configuration)	<b>SFR</b> L40U	<b>CHM</b> Etched Glass Chimney  <b>HS</b> House Side Shield  <b>RC<sup>3,4,5</sup></b> Receptacle 3-pins  <b>PH8<sup>5</sup></b> Photoelectric cell  <b>PH9<sup>5</sup></b> Shorting Cap  <b>PHXL<sup>5</sup></b> Photoelectric cell, extended life  <b>RCD7<sup>6</sup></b> Receptacle 7-pin  <b>SP2</b> 20kV/20kA surge protector  <b>TN2.875C</b> 2 7/8" dia. Tenon adaptor  <b>TN3</b> 3" dia. Tenon adaptor  <b>TN3.5</b> 3 1/2" dia. Tenon adaptor  <b>WC</b> Without Cupola	Consult with signify.com/ outdoorluminaires for details and the complete line of Signify poles and brackets.	<b>Textured</b>  <b>BE2TX</b> Midnight Blue <b>BE6TX</b> Ocean Blue <b>BE8TX</b> Royal Blue <b>BG2TX</b> Sandstone <b>BKTX</b> Black <b>BRTX</b> Bronze <b>GN4TX</b> Blue Green <b>GN6TX</b> Forest Green <b>GN8TX</b> Dark Forest Green <b>GNTX</b> Green <b>GY3TX</b> Medium Grey <b>RD2TX</b> Burgundy <b>RD4TX</b> Scarlet <b>WHTX</b> White  <b>Other</b>  <b>GR</b> Gray Sandtex <b>NP</b> Natural Aluminum <b>TG</b> Hammertone Gold

1. Not available with HS option.  
 2. Not available 347-480 volt.  
 3. Use of photoelectric cell or shorting cap is required to ensure proper illumination.  
 4. L40U always ships with an RC Receptacle.  
 5. Not available with RCD7.  
 6. The RCD7 is located on top of the roof in place of the finial for use with a control node.  
 Note: If DALI or 5 or 7 pin receptacle is required contact factory.

# L40U L40 LED Post Top

## Urban Luminaire

### Dimensions



### L40U

EPA: 2.74 sq ft  
Weight: 50 lbs (22.7 kg)

### LED Wattage and Lumen Values: for L40U with Clear globe

Ordering Code: Clear Globe (3000K)	Total LEDs	LED current (mA)	Average System Wattage <sup>1</sup> (W)	LE2			LE3			LE4			LE5		
				Lumen Output <sup>2</sup>	Efficacy (LPW)	BUG Rating	Lumen Output <sup>2</sup>	Efficacy (LPW)	BUG Rating	Lumen Output <sup>2</sup>	Efficacy (LPW)	BUG Rating	Lumen Output <sup>2</sup>	Efficacy (LPW)	BUG Rating
35W32LED3K-G2-C	32	350	37	2892	78.2	B1-U2-G1	2880	77.8	B1-U2-G1	2813	76.0	B1-U2-G1	2888	78.1	B2-U3-G1
55W32LED3K-G2-C	32	530	54	4149	76.8	B1-U3-G1	4131	76.5	B1-U3-G1	4034	74.7	B1-U3-G1	4143	76.7	B3-U3-G1
72W32LED3K-G2-C	32	700	73	5232	71.7	B1-U3-G1	5210	71.4	B1-U3-G1	5088	69.7	B1-U3-G2	5225	71.6	B3-U3-G1
55W48LED3K-G2-C	48	350	55	4338	78.7	B1-U3-G1	4320	78.4	B1-U3-G1	4219	76.6	B1-U3-G1	4332	78.6	B3-U3-G1
80W48LED3K-G2-C	48	530	81	6223	77.2	B1-U3-G1	6197	76.9	B1-U3-G2	6051	75.1	B1-U3-G2	6214	77.1	B3-U3-G1
108W48LED3K-G2-C	48	700	106	7848	74.0	B2-U3-G2	7816	73.7	B2-U3-G2	7632	72.0	B1-U3-G2	7837	73.9	B3-U3-G2

Ordering Code: Clear Globe (4000K)	Total LEDs	LED current (mA)	Average System Wattage <sup>1</sup> (W)	LE2			LE3			LE4			LE5		
				Lumen Output <sup>2</sup>	Efficacy (LPW)	BUG Rating	Lumen Output <sup>2</sup>	Efficacy (LPW)	BUG Rating	Lumen Output <sup>2</sup>	Efficacy (LPW)	BUG Rating	Lumen Output <sup>2</sup>	Efficacy (LPW)	BUG Rating
35W32LED4K-G2-C	32	350	37	3210	86.8	B1-U2-G1	3197	86.4	B1-U2-G1	3122	84.4	B1-U2-G1	3206	86.6	B2-U3-G1
55W32LED4K-G2-C	32	530	54	4605	85.3	B1-U3-G1	4586	84.9	B1-U3-G1	4478	82.9	B1-U3-G1	4598	85.1	B3-U3-G1
72W32LED4K-G2-C	32	700	73	5808	79.6	B1-U3-G1	5783	79.2	B1-U3-G1	5648	77.4	B1-U3-G2	5799	79.4	B3-U3-G1
55W48LED4K-G2-C	48	350	55	4816	87.4	B1-U3-G1	4796	87.0	B1-U3-G1	4683	85.0	B1-U3-G1	4809	87.3	B3-U3-G1
80W48LED4K-G2-C	48	530	81	6907	85.7	B2-U3-G2	6879	85.3	B1-U3-G2	6717	83.3	B1-U3-G2	6897	85.6	B3-U3-G2
108W48LED4K-G2-C	48	700	106	8712	82.2	B2-U3-G2	8675	81.8	B2-U3-G2	8471	79.9	B2-U3-G2	8699	82.1	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/outdoorluminaires](http://signify.com/outdoorluminaires).

**Note:** Some data may be scaled based on tests on similar but not identical luminaires.

# L40U L40 LED Post Top

## Urban Luminaire

### Specifications

#### Housing

**Cupola:** Decorative cast 356 aluminum photocell housing, c/w a window, mechanically mounted on hood.

**Hood:** In a square tapered shape, the hood is made of a one-piece die cast injection molded A360 aluminium. Mechanically assembled to the guard.

**Guard:** In a square tapered shape, the guard is made of one-piece die cast injection molded A360 aluminium.

#### Access-mechanism

Two integrated hinges on the hood with a stopper and a latch shall offer a tool-free access to the inside of the luminaire. An embedded memory-retentive gasket shall ensure weatherproofing.

#### Light engine

**LEDgine composed of 5 main components:** Heat Sink / Lens / LED lamp / Driver / Optical System. Electrical components are RoHS compliant.

#### LED engine

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.

#### Globe/Panels

**ACDR-C:** Made of one-piece seamless injection-molded clear impact-resistant (DR) acrylic. The globe is assembled on the access-mechanism.

**PC-C:** Made of one-piece seamless injection-molded clear polycarbonate. The globe is assembled on the access-mechanism.

#### Heat sink

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

#### Optical system

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.

**LE2** - Type II (ASYM)    **LE3** - Type III (ASYM)  
**LE4** - Type IV (ASYM)    **LE5** - Type V (SYMM)

#### Driver

Driver comes standard with dimming compatible 0-10V. High power factor of 90% minimum. Electronic driver, operating range 50/60 Hz. 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).

Certified in compliance to UL1310 cULus requirement. Dry and damp location. Assembled on a unitized removable tray with Tyco quick disconnect plug resisting to 221°F (105°C). 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).

#### 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.

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

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

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

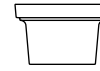
\* Contact factory for DALI options.

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

**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.

#### Fitter



#### L40U uses the SFR

Cast 356 aluminum c/w 4 set screws 3/8-16 UNC. Slip-fits on a 4" (102mm) outside diameter by 4" (102mm) long tenon.

#### 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 roadway luminaires electrical immunity requirements for High Test Level 10kV / 10kA. SP2 20kV/20kA optional.

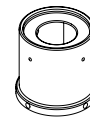
#### Luminaire options



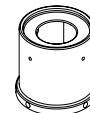
**HS**  
House side shield

**SP2** 20kV/20kA integral surge protector (optional)

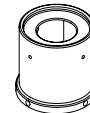
**WC** Without Cupola



**TN2.875C**  
2-7/8" dia. tenon adapter



**TN3**  
3" dia. tenon adapter



**TN3.5**  
3-1/2" dia. tenon adapter



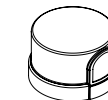
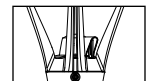
**CHM**  
Etched Glass Chimney



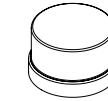
**RC**  
Receptacle 3-pins standard (If a 5 or 7 pin is required contact the factory)



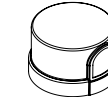
**RCD7**  
Receptacle 7-pins.



**PH8** (allows a 90° rotation) Photoelectric Cell, Twist-lock Type complete with receptacle.



**PH9** Shorting cap, Twist-lock Type complete with receptacle.



**PHXL** (allows a 90° rotation) Extended life photoelectric cell, Twist-lock Type complete with receptacle.

# L40U L40 LED Post Top

## Urban Luminaire

### Specifications (continued)

#### Finish

In accordance with the AAMA 2603 standard. Application of polyester powder coat paint (4 mils/100 microns) with +/- 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.

#### Textured Finish Options:

**BE2TX:** Textured Midnight Blue  
**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  
**GY3TX:** Textured Medium Grey  
**RD2TX:** Textured Burgundy  
**RD4TX:** Textured Scarlet  
**WHTX:** Textured White

#### Non-Textured Finish Options:

**GR:** Gray Sandtex  
**NP:** Natural Aluminum  
**TG:** Hammer-tone Gold

#### 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 all of these additional factors including: LED life, driver life, PCB substrate, solder joints, on/off cycles, burning hours and corrosion. Entire luminaire is rated for operation in ambient temperature of -40°C / -40°F up to +35°C / +95°F.

#### Hardware

All exposed screws shall be complete with Ceramic primer-seal base coat 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.

#### Quality control

Manufactured to ISO 9001 2008 standards and ISO 14001-2004 International Quality Standards Certification.

#### LED products (manufacturing standard)

The electronic components sensitive to 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

Manufactured to ISO 9001 2008 standards and ISO 14001-2004 International Quality Standards Certification.

#### Certifications and Compliance

CSA, cULus Listed for Canada and USA. Luminaires are DesignLights Consortium qualified.

### 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	86%

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.

