LUMEC
by signify

Urban

Square Lantern

S40-S41 Post Top

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Lumec **Square Lantern** LED post top luminaires draw on the designs of yesteryear in order to evoke a feeling of harmony and warmth in any project. This series is another example of how Lumec melds feelings of old-time luminaires with modern lighting techniques and technology. It can complement many settings thanks to its two sizes and its internal components assure long life, reliability, and durability. The blend of form and function makes the **Square Lantern** luminaires an excellent choice for older neighborhoods or contemporary environments.

Ordering guide

example: S40-72W32LED4K-G2-ACDR-C-LE3-120-DMG-SFR-HS-GN8TX

Series	LED module	Gen.	Globe material	Globe finish	Optical system	Voltage	Driver options	Adapter	Luminaire options	Poles / Brackets	Finish
		G2									
S40 **S41**	**3000K** **35W32LED3K** **55W32LED3K** **55W48LED3K** **72W32LED3K** **80W48LED3K** **108W48LED3K** **4000K** **35W32LED4K** **55W32LED4K** **55W48LED4K** **72W32LED4K** **80W48LED4K** **108W48LED4K**	**G2** Gen 2	**ACDR** Acrylic Globe **PC** Poly-carbonate	**C** Clear Globe **CS**[1] Satin Clear Globe	**LE2** Type II (ASYM) **LE3** Type III (ASYM) **LE4** Type IV (ASYM) **LE5**[2] Type V (SYM)	**120** **208** **240** **277** **347** **480**	**AST**[3] Pre-set driver for progressive start-up **CDMGE25**[3] (2) 8 hrs. 25% reduction **CDMGE50**[3] (2) 8 hrs. 50% reduction **CDMGE75**[3] (2) 8 hrs. 75% reduction **CDMGM25**[3] (2) 6 hrs. 25% reduction **CDMGM50**[3] (2) 6 hrs. 50% reduction **CDMGM75**[3] (2) 6 hrs. 75% reduction **CDMGS25**[3] (2) 4 hrs. 25% reduction **CDMGS50**[3] (2) 4 hrs. 50% reduction **CDMGS75**[3] (2) 4 hrs. 75% reduction **CLO**[3] Pre-set driver to manage lumen depreciation **DMG** 0-10V **OTL**[3] Pre-set driver to signal end of life of the lamp **SRD**[1] Sensor ready driver (standard configuration) **SRD1**[1] Sensor ready driver (alternate configuration)	**SFR** S40 **SF41** S41	**HS** House Side Shield **PH7**[4] Photoelectric cell buttom type **RCD7**[5] Receptacle 7-pin **SP2** 20kV/20kA surge protector **TN2.875C** 2 7/8" dia. Tenon adaptor **TN3** 3" dia. Tenon adaptor **TN3.5** 3 1/2" dia. Tenon adaptor	Consult with signify.com/outdoorluminaires for details and the complete line of Signify poles and brackets.	**Textured** **BE2TX** Midnight Blue **BE6TX** Ocean Blue **BE8TX** Royal Blue **BG2TX** Sandstone **BKTX** Black **BRTX** Bronze **GN4TX** Blue Green **GN6TX** Forest Green **GN8TX** Dark Forest Green **GNTX** Green **GY3TX** Medium Grey **RD2TX** Burgundy **RD4TX** Scarlet **WHTX** White **Other** **GR** Gray Sandtex **NP** Natural Aluminum **TG** Hammertone Gold

1. Only available in Polycarbonate.
2. Not available with HS option.
3. Not available 347-480 volt.
4. Not available with WC option.
5. If RCD7 is required you need to select WC without cupola. The RCD7 is located on top of the roof in place of the cupola for use with a control node.

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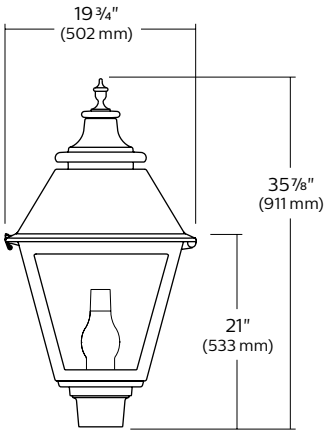
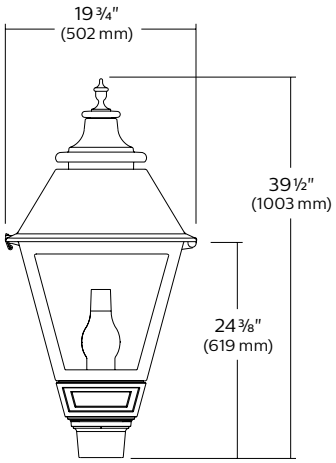
Dimensions



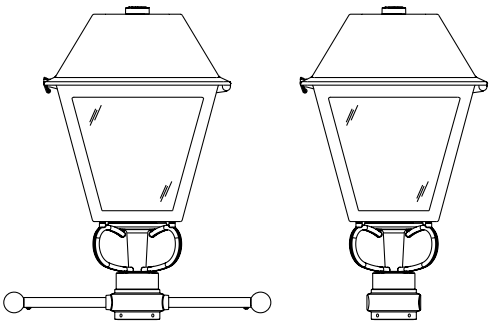
S40

EPA: 2.97 sq ft
Weight: 44 lbs (20 kg)



S41

EPA: 3.25 sq ft
Weight: 45 lbs (20.4 kg)



LED Wattage and Lumen Values: for S40 / S41 with Clear globe

Ordering Code: Clear Globe (3000K)	Total LEDs	LED current (mA)	Average System Wattage[1] (W)	LE2			LE3			LE4			LE5		
				Lumen Output[2]	Efficacy (LPW)	BUG Rating	Lumen Output[2]	Efficacy (LPW)	BUG Rating	Lumen Output[2]	Efficacy (LPW)	BUG Rating	Lumen Output[2]	Efficacy (LPW)	BUG Rating
35W32LED3K-G2-C	32	350	37	2892	78	B1-U2-G1	2880	79	B1-U2-G1	2813	76	B1-U2-G1	2888	78	B2-U3-G1
55W32LED3K-G2-C	32	530	54	4149	77	B1-U3-G1	4131	77	B1-U3-G1	4034	75	B1-U3-G1	4143	77	B3-U3-G1
72W32LED3K-G2-C	32	700	73	5232	72	B1-U3-G1	5210	71	B1-U3-G1	5088	70	B1-U3-G2	5225	72	B3-U3-G1
55W48LED3K-G2-C	48	350	55	4338	79	B1-U3-G1	4320	79	B1-U3-G1	4219	77	B1-U3-G1	4332	79	B3-U3-G1
80W48LED3K-G2-C	48	530	81	6223	77	B1-U3-G1	6197	77	B1-U3-G2	6051	75	B1-U3-G2	6214	77	B3-U3-G1
108W48LED3K-G2-C	48	700	106	7848	74	B2-U3-G2	7816	74	B2-U3-G2	7632	72	B1-U3-G2	7837	74	B3-U3-G2

Ordering Code: Clear Globe (4000K)	Total LEDs	LED current (mA)	Average System Wattage[1] (W)	LE2			LE3			LE4			LE5		
				Lumen Output[2]	Efficacy (LPW)	BUG Rating	Lumen Output[2]	Efficacy (LPW)	BUG Rating	Lumen Output[2]	Efficacy (LPW)	BUG Rating	Lumen Output[2]	Efficacy (LPW)	BUG Rating
35W32LED4K-G2-C	32	350	37	3210	87	B1-U2-G1	3197	86	B1-U2-G1	3122	84	B1-U2-G1	3206	87	B2-U3-G1
55W32LED4K-G2-C	32	530	54	4605	85	B1-U3-G1	4586	85	B1-U3-G1	4478	83	B1-U3-G1	4598	85	B3-U3-G1
72W32LED4K-G2-C	32	700	73	5808	80	B1-U3-G1	5783	79	B1-U3-G1	5648	77	B1-U3-G2	5799	79	B3-U3-G1
55W48LED4K-G2-C	48	350	55	4816	87	B1-U3-G1	4796	87	B1-U3-G1	4683	85	B1-U3-G1	4809	87	B3-U3-G1
80W48LED4K-G2-C	48	530	81	6907	86	B2-U3-G2	6879	85	B1-U3-G2	6717	83	B1-U3-G2	6897	86	B3-U3-G2
108W48LED4K-G2-C	48	700	106	8712	82	B2-U3-G2	8675	82	B2-U3-G2	8471	80	B2-U3-G2	8699	82	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.
Note: Some data may be scaled based on tests on similar but not identical luminaires.

S40–S41 Square Lantern LED Post Top

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LED Wattage and Lumen Values: for S40 / S41 with Clear satin globe

Ordering Code: Clear Satin Globe (3000K)	Total LEDs	LED current (mA)	Average System Wattage[1] (W)	LE2S			LE3S			LE4S			LE5S		
				Lumen Output[2]	Efficacy (LPW)	BUG Rating	Lumen Output[2]	Efficacy (LPW)	BUG Rating	Lumen Output[2]	Efficacy (LPW)	BUG Rating	Lumen Output[2]	Efficacy (LPW)	BUG Rating
35W32LED3K-G2-CS	32	350	37	2619	71	B1-U3-G1	2653	72	B1-U3-G1	2547	69	B1-U3-G1	2744	74	B2-U3-G1
55W32LED3K-G2-CS	32	530	54	3757	70	B1-U3-G1	3806	71	B1-U3-G1	3654	68	B1-U3-G1	3936	73	B3-U3-G1
72W32LED3K-G2-CS	32	700	73	4738	65	B1-U3-G1	4800	66	B1-U3-G2	4608	63	B1-U3-G2	4965	68	B3-U3-G2
55W48LED3K-G2-CS	48	350	55	3928	71	B1-U3-G1	3980	72	B1-U3-G1	3821	69	B1-U3-G1	4116	75	B3-U3-G2
80W48LED3K-G2-CS	48	530	81	5635	70	B1-U3-G2	5709	71	B1-U3-G2	5481	68	B1-U3-G2	5905	73	B3-U3-G2
108W48LED3K-G2-CS	48	700	106	7107	67	B2-U3-G2	7200	68	B2-U3-G2	6912	65	B1-U3-G2	7447	70	B3-U3-G2

Ordering Code: Clear Satin Globe (4000K)	Total LEDs	LED current (mA)	Average System Wattage[1] (W)	LE2S			LE3S			LE4S			LE5S		
				Lumen Output[2]	Efficacy (LPW)	BUG Rating	Lumen Output[2]	Efficacy (LPW)	BUG Rating	Lumen Output[2]	Efficacy (LPW)	BUG Rating	Lumen Output[2]	Efficacy (LPW)	BUG Rating
35W32LED4K-G2-CS	32	350	37	2907	79	B1-U3-G1	2945	80	B1-U3-G1	2827	76	B1-U3-G1	3046	82	B2-U3-G1
55W32LED4K-G2-CS	32	530	54	4170	77	B1-U3-G1	4225	78	B1-U3-G2	4056	75	B1-U3-G2	4369	81	B3-U3-G2
72W32LED4K-G2-CS	32	700	73	5259	72	B1-U3-G2	5328	73	B1-U3-G2	5115	70	B1-U3-G2	5511	76	B3-U3-G2
55W48LED4K-G2-CS	48	350	55	4361	79	B1-U3-G1	4418	80	B1-U3-G2	4241	77	B1-U3-G2	4569	83	B3-U3-G2
80W48LED4K-G2-CS	48	530	81	6255	78	B2-U3-G2	6337	79	B1-U3-G2	6083	76	B1-U3-G2	6554	81	B3-U3-G2
108W48LED4K-G2-CS	48	700	106	7888	74	B2-U3-G2	7992	75	B2-U3-G2	7672	72	B1-U3-G2	8266	78	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.
Note: Some data may be scaled based on tests on similar but not identical luminaires.

Specifications

Housing

Finial: Decorative cast 356 aluminum, mechanically assembled.

Cupola: Decorative spun aluminum 1100 0, 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-CS: Made of one-piece seamless injection-molded satin 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).

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Specifications (continued)

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
CDMGS25	Safety	4 hours	25%
CDMGS50	Safety	4 hours	50%
CDMGS75	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.

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

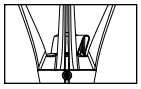
HS
House
side shield

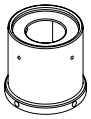
PH7 Photoelectric cell button type

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

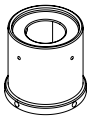
WC Without Cupola

RCD7
Receptacle
7-pins.

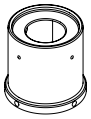




TN2.875C
2-7/8" dia.
tenon adaptor



TN3
3" dia.
tenon adaptor



TN3.5
3-1/2" dia.
tenon adaptor

Fitter

S40 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.

S41 uses the SF41
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.

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

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	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_{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.

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.

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Specifications (continued)

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

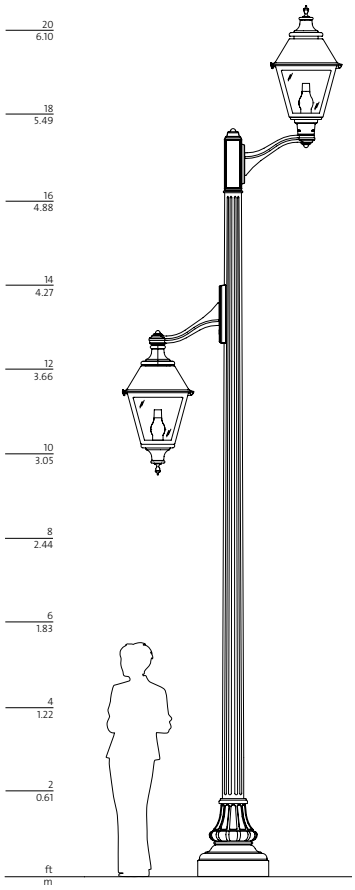
Manufactured to ISO 9001 2008 standards and ISO 14001-2004 International Quality Standards Certification.

Certifications and Compliance

CSA, cULus Listed for Canada and USA.

Luminaires are DesignLights Consortium qualified.

Assembly example



S40-LE2
Mounting: CRF-1A
Mid pole Luminaire: S26P-LE3-CP
Mounting: CRFT-F
Pole: RTA500-MPL

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

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