



Lumec **L40U** LED pendant 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 pendant 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-STM-72W32LED4K-G2-ACDR-C-LE3-120-DMG-SFR-RC-HS-GN8TX

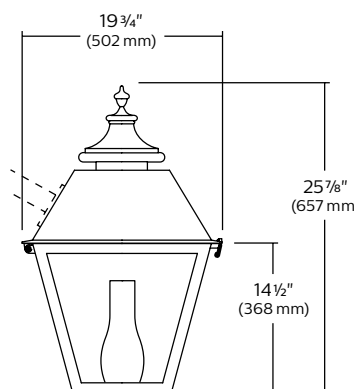
Series	LED module	Gen.	Globe material	Globe finish	Optical system	Voltage	Driver options	Luminaire options	Brackets	Poles / Brackets	Finish
L40U-STM		G2		C				RC			
L40U-STM	3000K 35W32LED3K 55W32LED3K 55W48LED3K 72W32LED3K 80W48LED3K 108W48LED3K 4000K 35W32LED4K 55W32LED4K 55W48LED4K 72W32LED4K 80W48LED4K 108W48LED4K	G2 Gen 2	ACDR Acrylic Globe PC Poly-carbonate	C Clear Globe	LE2 Type II (ASYM) LE3 Type III (ASYM) LE4 Type IV (ASYM) LE5 ¹ Type V (SYM)	120 208 240 277 347 480	AST ² Pre-set driver for progressive start-up CDMGE25 ² (2) 8 hrs. 25% reduction CDMGE50 ² (2) 8 hrs. 50% reduction CDMGE75 ² (2) 8 hrs. 75% reduction CDMGM25 ² (2) 6 hrs. 25% reduction CDMGM50 ² (2) 6 hrs. 50% reduction CDMGM75 ² (2) 6 hrs. 75% reduction CDMGS25 ² (2) 4 hrs. 25% reduction CDMGS50 ² (2) 4 hrs. 50% reduction CDMGS75 ² (2) 4 hrs. 75% reduction DMG 0-10V CLO ² Pre-set driver to manage lumen depreciation OTL ² Pre-set driver to signal end of life of the lamp SRD ² Sensor ready driver (standard configuration) SRD1 ² Sensor ready driver (alternate configuration)	CHM Etched Glass Chimney HS House Side Shield RC ^{3,4,5} Receptacle 3-pins PH8 ⁵ Photoelectric cell PH9 ⁵ Shorting Cap PHXL ⁵ Photoelectric cell, extended life RCD7 ⁶ 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	S25AU5 S25AU6 1A 2	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 Hammetone 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-STM 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-STM L40 LED Pendant

Urban Luminaire

Dimensions



L40U-STM

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

LED Wattage and Lumen Values: for L40U-STM 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	3140	84.9	B1-U2-G1	3128	84.5	B1-U2-G1	2968	80.2	B1-U2-G1	2989	80.8	B2-U2-G1
55W32LED3K-G2-C	32	530	54	4504	83.4	B1-U2-G1	4487	83.1	B1-U2-G1	4257	78.8	B1-U2-G1	4287	79.4	B3-U3-G1
72W32LED3K-G2-C	32	700	73	5680	77.8	B1-U3-G1	5659	77.5	B1-U3-G1	5368	73.5	B1-U3-G2	5407	74.1	B3-U3-G1
55W48LED3K-G2-C	48	350	55	4710	85.5	B1-U2-G1	4692	85.2	B1-U2-G1	4451	80.8	B1-U3-G1	4483	81.4	B3-U3-G1
80W48LED3K-G2-C	48	530	81	6756	83.8	B1-U3-G1	6731	83.5	B1-U3-G2	6385	79.2	B1-U3-G2	6430	79.8	B3-U3-G1
108W48LED3K-G2-C	48	700	106	8520	80.4	B2-U3-G2	8489	80.1	B2-U3-G2	8052	76.0	B1-U3-G2	8110	76.5	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	3485	94.2	B1-U2-G1	3472	93.8	B1-U2-G1	3294	89.0	B1-U2-G1	3317	89.6	B2-U3-G1
55W32LED4K-G2-C	32	530	54	4999	92.6	B1-U2-G1	4981	92.2	B1-U2-G1	4725	87.5	B1-U3-G1	4758	88.1	B3-U3-G1
72W32LED4K-G2-C	32	700	73	6305	86.4	B1-U3-G1	6282	86.1	B1-U3-G2	5959	81.6	B1-U3-G2	6001	82.2	B3-U3-G1
55W48LED4K-G2-C	48	350	55	5228	94.9	B1-U2-G1	5209	94.5	B1-U3-G1	4941	89.7	B1-U3-G1	4976	90.3	B3-U3-G1
80W48LED4K-G2-C	48	530	81	7499	93.0	B2-U3-G2	7471	92.7	B1-U3-G2	7087	87.9	B1-U3-G2	7138	88.6	B3-U3-G2
108W48LED4K-G2-C	48	700	106	9457	89.2	B2-U3-G2	9423	88.9	B2-U3-G2	8938	84.3	B2-U3-G2	9002	84.9	B4-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 of similar. But not identical luminaires.

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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
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.

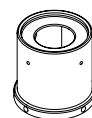
Luminaire options



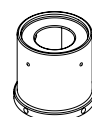
HS
House
side shield

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

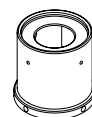
WC Without Cupola



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



TN3
3" dia.
tenon adapter



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



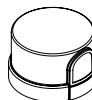
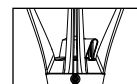
CHM
Etched Glass
Chimney



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
with receptacle.

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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 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. L₇₀ is the predicted time when LED performance depreciates to 70% of initial lumen output.
3. Calculated per IESNA TM21-11. Published L₇₀ hours limited to 6 times actual LED test hours.

