



By combining high-tech technology with elements of modern design, the Lumec **Zenith LED** luminaires give you great flexibility and freedom. The **Zenith** was specially developed for lighting large areas, such as parks, public areas, and entryways. Powered by the EcoSwap LED light engine, **Zenith** provides longevity and energy savings.

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Lamps: _____ Qty: _____
 Notes: _____

Ordering guide: Luminaire

example: Z12A-40W42LED4K-G2-PC-RLE3-120-SFZ4-FN1-BKTX

| Series | LED module | Generation | Globe material | Optics | Voltage | Adaptor | Luminaire options | Poles and brackets | Finish |
|-----------------------------------|--|------------|--------------------------------------|--|--|-----------------------|---|--|---|
| | | G2 | | | | | | | |
| Z12 Zenith post top | 3000k 40W42LED3K 65W42LED3K | G2 | AC Acrylic PC Polycarbonate | RLE3 Type III (ASYM) RLE5 Type V (SYMM) | 120 120V 208 208V 240 240V 277 277V | SFZ4 Fitter | FN1 Decorative finial FN2 Decorative finial FN3 Decorative finial FN4 Decorative finial FN8 Decorative finial FN9 Decorative finial FN10 Decorative finial FNC Finial painted copper H5 House side shield PH7 Photoelectric cell | <i>Consult signify.com/outdoorluminaires for details and the complete line of Signify poles and brackets.</i> | BE2TX Textured Midnight Blue |
| Z12A Zenith post top | 4000k 40W42LED4K 65W42LED4K | | | | | | | | 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 |
| | | | | | | | | | GR Gray Sandtex |
| | | | | | | | | | GY3TX Textured Medium Grey |
| | | | | | | | | | NP Natural Aluminum |
| | | | | | | | | | RD2TX Textured Burgundy |
| | | | | | | | | | RD4TX Textured Scarlet |
| | | | | | | | | | TG Hammertone Gold |
| | | | | | | | | | WHTX Textured White |

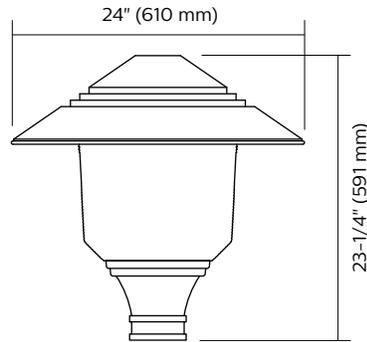
Z12 – Z12A Zenith LED Post Top

Urban Luminaire

Dimensions

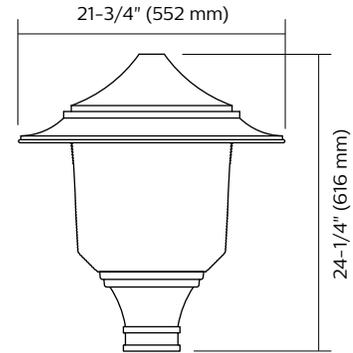
Z12

Width: 24" (61cm) diameter
Height: 23-1/4" (59.1cm)
EPA: 2.0 sq. ft (maximum)
Weight: 19 lbs (8.6 kg) (maximum)



Z12A

Width: 21-3/4" (55.2cm) diameter
Height: 24-1/4" (61.6cm)
EPA: 1.84 sq. ft (maximum)
Weight: 18 lbs (8.2 kg) (maximum)



Predicted Lumen Depreciation Data

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

| Ambient Temperature °C | Driver mA | Calculated L ₇₀ Hours | L ₇₀ per TM-21 | Lumen Maintenance % at 54,000 hrs |
|------------------------|-----------|----------------------------------|---------------------------|-----------------------------------|
| 25°C | 500 mA | >100,000 hours | >54,000 hours | >98% |

LED Wattage and Lumen Values: Zenith LED post top Z12/A

| Ordering Code: 3000K | Total LEDs | LED current (mA) | Average System Wattage (W) | Type RLE3 | | | Type RLE5 | | |
|-------------------------|------------|------------------|----------------------------|--------------|----------------|------------|--------------|----------------|------------|
| | | | | Lumen Output | Efficacy (LPW) | BUG Rating | Lumen Output | Efficacy (LPW) | BUG Rating |
| 40W42LED3K-G2 | 42 | 333 | 49 | 4,898 | 100 | B3-U3-G3 | 4,871 | 99 | B3-U3-G3 |
| 65W42LED3K-G2 | 42 | 500 | 70 | 6,501 | 93 | B3-U3-G3 | 6,465 | 92 | B3-U3-G3 |

| Ordering Code: 4000K | Total LEDs | LED current (mA) | Average System Wattage (W) | Type RLE3 | | | Type RLE5 | | |
|-------------------------|------------|------------------|----------------------------|--------------|----------------|------------|--------------|----------------|------------|
| | | | | Lumen Output | Efficacy (LPW) | BUG Rating | Lumen Output | Efficacy (LPW) | BUG Rating |
| 40W42LED4K-G2 | 42 | 333 | 49 | 5,271 | 108 | B3-U3-G3 | 5,254 | 107 | B3-U3-G3 |
| 65W42LED4K-G2 | 42 | 500 | 70 | 6,995 | 100 | B3-U3-G3 | 6,974 | 99 | B3-U3-G3 |

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.

Z12 – Z12A Zenith LED Post Top

Urban Luminaire

Specifications:

Housing

Hood: Spun aluminum 1100-0 dome, permanently sealed onto the luminaire

Guard: In a round shape, this guard is a cast 356 aluminum with decorative arms welded to the fitter

Fitter: (SFZ4), Cast 356 aluminum c/w 4 set screws 3/8-16 UNC. Slip-fits on a 4" (102mm) outside diameter x 4" (102mm) long tenon.

Access-Mechanism: Rotomatic, die-cast A360 aluminum quarter-turn mechanism with constant-pressure spring-loaded points. The mechanism shall offer tool-free access to the inside of the luminaire. An embedded memory-retentive gasket shall ensure weatherproofing. A red key on the unit shall indicate point of engagement.

Globe: (PC), Made of one-piece seamless injection-molded clear polycarbonate having a prismatic exterior surface. **(AC),** Made of one-piece seamless injection-molded clear acrylic having a prismatic exterior surface. The globe is mechanically assembled on the access-mechanism.

Finial: Decorative cast 356 aluminum, mechanically assembled.

LED Engine

Rotomatic tool-free system composed of 4 main components: Heat Sink / LED Module / Optical System / Driver. Electrical components are RoHS compliant. Composed of 42 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.

Heat Sink

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

Optical System

Type 3 and Type 5. Composed of high-performance acrylic refractor lenses to achieve optimized distribution and get maximum spacing. Target lumens will create a perfect lighting uniformity. Performance shall be tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance. Painted color grey

Driver

High power factor of 90%. Electronic driver, operating range 50/60 Hz. Auto-adjusting to a voltage between 120 and 277 volt AC rated for both application line to line or line to neutral, Class II, THD of 20% max. Maximum ambient operating temperature from -40F(-40C) to 130F(55C) degrees. Assembled on a unitized removable tray with Tyco quick disconnect plug resisting to 221F(105C) degrees

Surge Protection

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.

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 additional factors, including LED life, driver life, PCB substrate, solder joints on/off cycles and burning hours for nominal applications.

Hardware

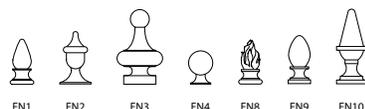
All exposed screws shall be complete with Ceramic primer-seal base-coat to reduce seizing of the parts and offers a high resistance to corrosion. All seals and sealing devices are made and/or lined with EPDM and/or silicone and/or rubber..

Wiring

Gauge (#14) TEW/AWM 1015 or 1230 wires, 6" (152mm) minimum exceeding from luminaire

Luminaire Options

HS House side shield
PH7 Photoelectric cell
FNx Decorative finial (see below)



Finish

Color to be 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.

LED products manufacturing standard

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

The manufacturer must provide a written confirmation of its ISO 9001 2008 and ISO 14001 2004 International Quality Standards Certification.

Certifications and Compliance

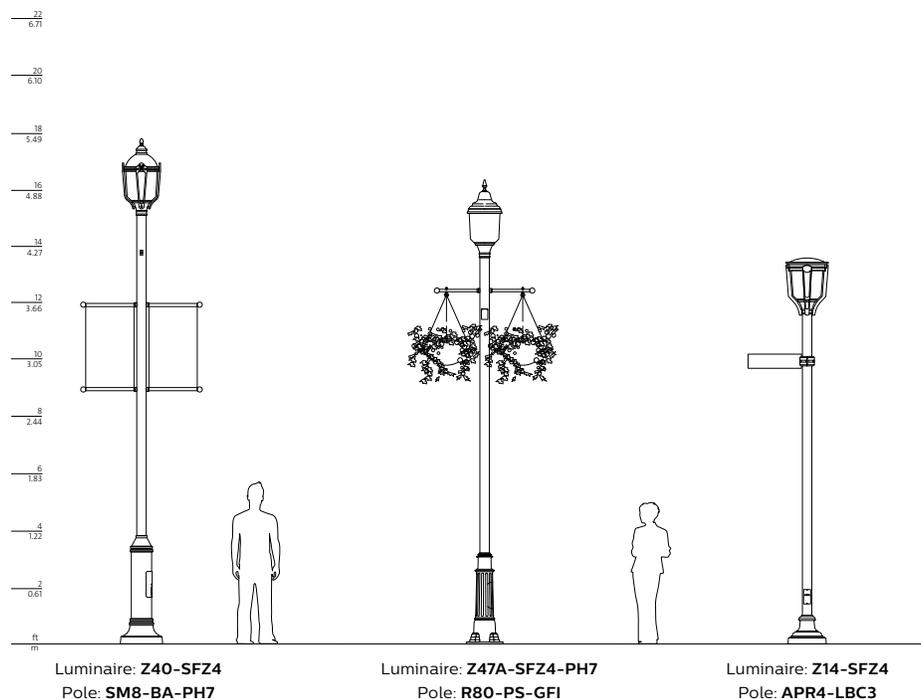
cULus listed to Canadian safety standards for wet locations. Manufactured to ISO 9001:2008 Standards. UL8750 and UL1598 compliant. UL listed to U.S. safety standards for wet locations. LM80 & LM79 tested. Listed on the DesignLights™ Consortium (DLC) Qualified Products List (QPL).

Warranty

5 year extended warranty.

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Assembly examples



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

