



# K445 SOL-LUX - LED

The King Luminaire Sol-Lux Fixture is one of the many classic shapes extensively used in the streetlighting revolution of the early 1900's. Offered today in high performance LED, it makes for a beautifully historical, energy efficient streetlighting solution.



# King Luminaire

## PRODUCT SPECIFICATIONS

### LED ENGINE

The light engine shall be an array of 4 or 6 Cree Chip On Board (COB) diodes mounted to a highly conductive aluminum extrusion with the use of 2 electrical connectors. The aluminum extrusion will be mechanically attached to a thermal heat sink at both the top and bottom of the aluminum extrusion. It shall remain in thermal contact to the heat sinks with the use of conductive silicone. There will be an aluminum upright reflector in both Type IV & Type V IESNA distribution patterns.

### REFRACTIVE GLASS GLOBE

The glass globe shall be made of 9018 clear borosilicate glass having a minimum thickness of 0.300" with an overall diameter of 13.5" and an over-all height of 19.25". It will be designed for optimum optical efficiency and light control.

The glass globe is secured to the luminaire body by means of a split-clamping ring of durable cast A319 aluminum, which allows easy, tool-less removal of the globe assembly from the luminaire body by means of King Luminaire's Rotolock™ system.

A minimum ingress protection against water or dust particles of IP66 for the LED optical chamber is provided by non-porous, closed-cell silicon rubber sponge gasketing which is highly efficient in sealing against particle ingress for a wide temperature range (-40°F to 310°F).

### LUMINAIRE CONSTRUCTION

All K445 Sol-Lux cast components shall consist of a heavy cast aluminum. The main body, or capital, acts as an enclosure for the driver assembly and is of adequate thickness to give sufficient structural rigidity. The capital shall have an opening at the base tenon body to allow the luminaire to be mounted to a tenon of 3-1/2" maximum diameter. The luminaire shall be locked in place by means of heavy duty, stainless steel set-screws.

### DRIVER

CSA certified and/or UL listed, electronic programmable, Constant Light Output (CLO) driver with a 0-10v dimming lead. Driver shall supply correct DC voltage and current to maintain proper operation of the emitters. The driver shall be UL1310/UL48 Class 1 certified, and contain over-circuit, over-voltage, and over-power protection. An in-line ferrite choke is utilized to provide protection against EFT's. The multi-volt driver shall be capable to connect to AC input voltages of 120V - 277V or 347 - 480V. The driver shall have a minimum life expectancy of 100,000 hrs with a case temperature range of -40°C to a maximum of 60°C. The driver casing shall have a minimum ingress protection rating of IP67. Dimming capable using 1-10vdc (10% to 100%), 10v PWM, or resistance.

### PHOTOMETRICS

Fixtures are tested to IESNA LM79 specifications. These reports are available upon request.

### CHROMATICITY

High output COB LEDs come standard at 3000K & 4000K (+/-300K) with a minimum nominal 70 CRI. Additional CCT emitters are available upon request.

### LUMEN MAINTENANCE

Reported (TM21) and Calculated (L70) reports are available upon request with a minimum calculated value of 100,000 hrs.

### WIRING

All internal wiring and connections shall be completed so that it will be necessary only to attach the incoming supply connectors to Mate-N-Lok connectors or to a terminal block. Mate-N-Lok shall be certified for 600V operation. Internal wire connectors shall be crimp connector only and rated at 1000V and 150°C. All wiring to be CSA certified and/or UL listed, type SFF-2, SEWF-2, or SEW-2 No. 14 gauge, 150°C, 600V, and color coded for the required voltage.

### THERMALS

Fixtures tested to determine the maximum in-situ case temperature of the LED emitters as recommended by Cree. This report is available upon request.

### FINISH

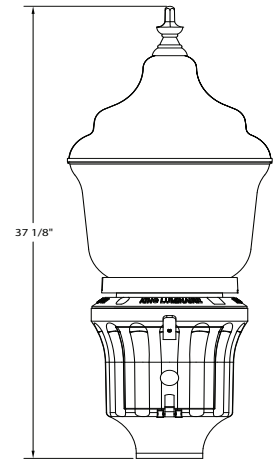
Housing is finished with a 13 step KingCoat™ SuperDurable polyester TGIC powder coat. Standard colors include strobe white, brown metal, marina blue, gate gray, Chicago bronze, standard gold, standard black, federal green and rain forest. Please see our website for a complete list of colors. Additional RAL or custom color matches are available.

### MISCELLANEOUS

All exterior hardware and fasteners, wholly or partly exposed, shall be stainless steel alloy. All internal fasteners are stainless steel or zinc coated steel. All remaining internal hardware is stainless steel, aluminum alloy, or zinc coated steel.

### WARRANTY

The K445 Sol-Lux LED luminaire comes with a 7 year limited warranty.



### CERTIFICATION:

Suitable for wet locations  
ISO 9001  
IP66  
ARRA Compliant  
LM79 / LM80 Compliant

### DRIVER INFO:

>0.9 Power Factor  
<20% Total Harmonic Distortion  
120V - 277V or 347 - 480V  
-40°C Min. Case Temperature  
60°C Max. Case Temperature  
Surge Protection: ANSI C136.2 extreme level 20kV/10kA  
Dimming Capable: 1-10vdc

### EGA:

1.16 sq. ft.

### FIXTURE WEIGHT:

51 lbs

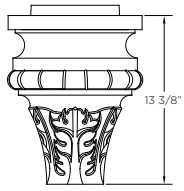


Not all product variations listed on this page are DLC qualified. Visit [www.designlights.org/search](http://www.designlights.org/search) to confirm qualification. 01-05-2023

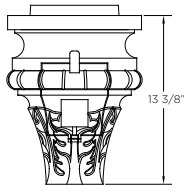
# FIXTURE OPTIONS

K445 SOL-LUX - LED

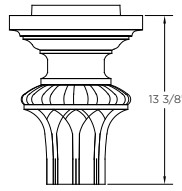
## Capital Options



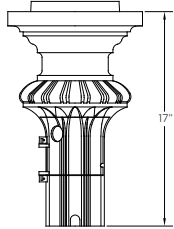
K13



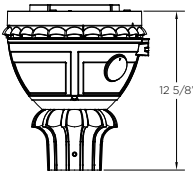
K14 C/W PR



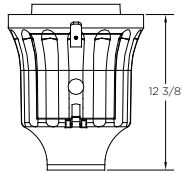
K16



K18 C/W PR

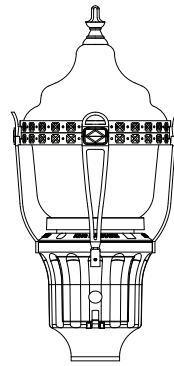


K26 C/W PR

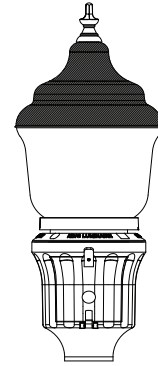


K24 C/W PR

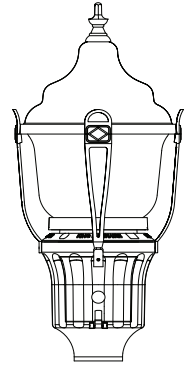
## Decorative Options



SAVANNAH RING & STRUTS



SOLID SPUN ALUMINUM TOP



CONTEMPORARY RING & STRUTS

## Finial Options



#1



#2



#3

# HOW TO ORDER

