



K551 ECLIPSE - LED

With its streamlined modern shape, the K551 Eclipse post top luminaire offers a sleek, clean look that is well suited for one of our concrete poles, or aluminum Agility Series poles to complement any contemporary outdoor space.



**King
Luminaire**

PRODUCT SPECIFICATIONS

LED ENGINE

The light engine shall be an array of Cree Surface Mount diodes mounted to a highly conductive aluminum extrusion with the use of 2 electrical connectors. The aluminum extrusion shall be mechanically attached to a thermal heat sink at both the top and the bottom of the aluminum extrusion. It shall remain in thermal contact to the heat sinks with the use of conductive silicone. There shall be an aluminum uplight reflector in both Type III & Type V IESNA distribution patterns.

OPTICS

The LED arrays shall include optical baffles constructed of optical grade ABS plastic with a vacuum metallized reflective surface or clear acrylic precision refractors over each diode. Both optical options shall be designed to efficiently control light distribution in IESNA Type IV & V.

LENS

The lens shall be a heavy duty 1/4" wall clear acrylic tube that has a diameter of 8.75" and shall be sealed with a closed cell silicone gasket at both ends.

LUMINAIRE CONSTRUCTION

The K551 Eclipse fixture shall be comprised of two spun aluminum alloy spinings with a minimum thickness of 0.09" which are permanently affixed to three heavy duty aluminum struts using stainless steel hardware. The base of each strut shall be attached to the Rotolock™ globe ring with stainless steel hardware.

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 x 3-1/2" maximum length. The luminaire shall be locked in place by means of heavy duty, stainless-steel set-screws.

DRIVER

The LED universal dimmable driver shall be DALI-2 D4i and capable of 108 - 305V or 249 - 528V input voltage, greater than 0.9 power factor, and

less than 20% total harmonic distortion. Each LED system shall come with built-in, high-capacity surge protection, in addition to a complementary SPD added by King Luminaire, designed to withstand up to 20kV/10kA of transient line surge as per IEEE C62.41.2 C High and ANSI C136.2 Extreme Level (20kV/10kA). An in-line ferrite choke shall be utilized to provide protection against EFT's. The driver assembly shall work with service feeds powered with one hot wire and a neutral or two hot wires. The case temperature of the driver shall range from -40°C up to 70°C. The driver assembly shall be mounted on a heavy duty fabricated aluminum mounting bracket.

PHOTOMETRICS

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

CHROMATICITY

High output LEDs shall come standard at 2700K, 3000K, & 4000K (+/- 300K) with a minimum nominal 70 CRI. Additional CCT emitters are to be available upon request.

LUMEN MAINTENANCE

Reported (TM21) and Calculated (L70) reports are to be 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 105°C. All wiring to be CSA certified and/or UL listed, type SFF-2, SEWF-2, or SEW-2 No. 14 gauge, 105°C, 600V.

THERMALS

Fixtures shall be tested by a DOE sanctioned test facility to determine the maximum in-situ solder-point or junction-

point temperatures of the LED emitters. This report is to be available upon request.

FINISH

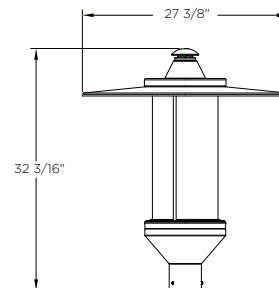
Housing shall be finished with a 13 step KingCoat™ SuperDurable polyester TGIC powder coat. Standard colors shall include strobe white, brown metal, marina blue, gate gray, Chicago bronze, standard gold, standard black, federal green, and rain forest. Please see our website for a complete list of colors.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

MISCELLANEOUS

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

WARRANTY

The K551 Eclipse LED luminaire shall come with a 7 year limited warranty.



CERTIFICATION:

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

DRIVER INFO:

>0.9 Power Factor
<20% Total Harmonic Distortion
120 - 277V & 347 - 480V
-40°C Min. Case Temperature
70°C Max. Case Temperature
Surge Protection: ANSI 136.2
extreme level 20 kV/10 kA
Dimming Capable

EPA:

1.57 sq. ft.

FIXTURE WEIGHT:

39 lbs



Contact King Luminaire for product specifications that are exempt from CSA Certification.
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