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
Light engine shall be an array of 36, 42, 54 or 63 solid state Cree X-Series high power LEDs (light emitting diodes) mounted to a multi-sided, vertical heat sink of highly conductive aluminum. The LED emitters are mounted to removable circuit boards such that they are in full thermal contact with the vertical heat sink. The vertical heat sink is open at the bottom and vented at the top to provide appropriate dynamic airflow cooling for the LED array. The emitters are arranged in various patterns on each face of the vertical heat sink to provide the required light distribution.

OPTICS
The LED arrays 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 are designed to efficiently control light distribution in IESNA Type IV & V for the B3 and Type III & V for the R1.

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

LUMINAIRE CONSTRUCTION
The K551 Eclipse fixture is comprised of two spun aluminum alloy spinnings 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 is 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. The luminaire shall be locked in place by means of heavy duty, stainless-steel set-screws.

DRIVER
The LED universal dimmable driver will be class 2 and capable of 120 - 277V or 347 - 480V input voltage, greater than 0.9 power factor, less than 20% total harmonic distortion. The case temperature of the driver can range from -40°C up to 70°C. Each LED system comes with a standard surge protection designed to withstand up to 20kV/10kA of transient line surge as per IEEE C62.41.2 C High. An in-line ferrite choke is utilized to provide protection against EFT's. 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 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 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 available upon request.

FINISH
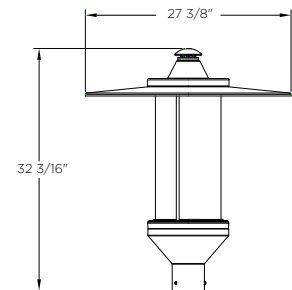Housing is finished with a 13 step KingCoat™ SuperDurable polyester TGIC powder coat. Standard colors include strobe white, brown metal, marina blue, gate gray, Chicago bronze, standard gold, standard black, federal green and rain forest. Please see our website for a complete list of colors. RAL and 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 K551 Eclipse LED luminaire comes with a 7 year limited warranty.

27 3/8"

32 3/16"

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: 1-10vdc

EPA:
1.57 sq. ft.

FIXTURE WEIGHT:
39 lbs

SERIES

1036 (25 - 75W B3)
1042 (24 - 75W B2, R1)
1054 (100W B3)
1063 (100W B2)
1063 (100 - 120W R1)

IES LIGHTING CLASSIFICATION

III - Type 3 (B2)
IV - Type 4 (B3, R1)
V - Type 5 (B2, B3, R1)

LINE VOLTAGE

120V (120-277)
480V (347-480)*

*Select wattages available within this range, contact King Luminaire. 120V will be provided if blank.

PAINT COLOR

GN - Federal Green
BE - Blue
GY - Gray
BN - Brown
BK - Black
BZ - Bronze

*Additional options available on website. BK will be provided if blank.

SOURCE

SSL - Solid State

LUMINAIRE STYLE

K551 - Eclipse

CCT

3K - 3000K
4K - 4000K

K551R - ☐ - ☐ - ☐ (SSL) ☐ - ☐ - ☐ - ☐ - ☐ - ☐

OPTICAL OPTIONS

B2 - B2 Optic (Baffled Array)
B3 - B3 Optic (Baffled Array)
R1 - R1 Optic (Refractive Array)

LENS OPTION

AC - Acrylic Clear

WATTAGE

25, 40, 60, 75, 100, 120
*120 only available in R1

PHOTO CONTROL OPTION

PEBC-Photo Electric Buttoncell

*leave blank if not required

CONNECTION

Quick Disconnect is standard. If terminal block is required, please specify TB

WATTAGE SELECTOR

WS - Wattage Selector

* leave blank if not required

StressCrete®
GROUP

King Luminaire