



# 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.



PROJECT: \_\_\_\_\_

PREPARED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

## 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.

### DECORATIVE BODY

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.

### 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

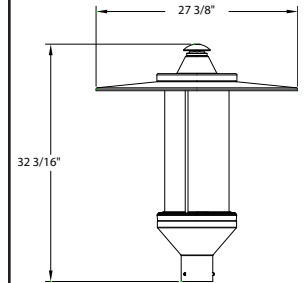
Housing is finished with a 13 step KingCoat™ SuperDurable polyester TGIC powder coat. Standard colors include strobe white, brown metal, marina blue, gate gray, Chicago bronze, standard gold, standard black, federal green and rain forest. Please see our website for a complete list of colors. RAL and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



### 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

### EPA:

1.57 sq. ft.

### FIXTURE WEIGHT:

39 lbs



Contact King Luminaire for product specifications that are exempt from CSA Certification 12-20-2018

# POWER & LUMENS

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**Test Voltage:** 120V  
**Nominal Color Temperature:** 3000K & 4000K<sup>1</sup>  
**1036 Engine Series:** 36 Emitters (40 - 75W)  
**1054 Engine Series:** 54 Emitters (100W)  
**LED Engine + Driver Rated Life = 100,000 hrs<sup>2</sup>**

To learn more about the B3 Optic, please see the B3 Optic Information Sheet

Photometric Test Report Number	Decorative Option	Color Temperature	IES Distribution	Nominal Watts	Engine Series	Delivered Lumens <sup>3</sup>	Efficacy (LM/W) <sup>3</sup>	mA @ Emitter	Driver Output Current	BUG Rating	HID Equivalent <sup>4</sup>
In Testing	N/A	3000	Type IV	40	1036	N/A	N/A	333	2000	N/A	50-70
In Testing	N/A	4000	Type IV	40	1036	N/A	N/A	333	2000	N/A	50-70
In Testing	N/A	3000	Type V	40	1036	N/A	N/A	333	2000	N/A	50-70
In Testing	N/A	4000	Type V	40	1036	N/A	N/A	333	2000	N/A	50-70
In Testing	N/A	3000	Type IV	60	1036	N/A	N/A	500	3000	N/A	70-100
In Testing	N/A	4000	Type IV	60	1036	N/A	N/A	500	3000	N/A	70-100
0551TB3AC5X06030XXB	N/A	3000	Type V	60	1036	4513	75	500	3000	2-2-2	70-100
In Testing	N/A	4000	Type V	60	1036	N/A	N/A	500	3000	N/A	70-100
In Testing	N/A	3000	Type IV	75	1036	N/A	N/A	667	4000	N/A	100-150
In Testing	N/A	4000	Type IV	75	1036	N/A	N/A	667	4000	N/A	100-150
0551TB3AC5X07530XXB	N/A	3000	Type V	75	1036	5687	70	667	4000	3-3-2	100-150
In Testing	N/A	4000	Type V	75	1036	N/A	N/A	667	4000	N/A	100-150
In Testing	N/A	3000	Type IV	100	1054	N/A	N/A	533	4800	N/A	150-200
In Testing	N/A	4000	Type IV	100	1054	N/A	N/A	533	4800	N/A	150-200
In Testing	N/A	3000	Type V	100	1054	N/A	N/A	533	4800	N/A	150-200
In Testing	N/A	4000	Type V	100	1054	N/A	N/A	533	4800	N/A	150-200

B3 = 3rd Generation Baffled Array



**Test Voltage:** 120V  
**Nominal Color Temperature:** 3000K & 4000K<sup>1</sup>  
**1042 Engine Series:** 42 Emitters (40 - 75W)  
**1063 Engine Series:** 63 Emitters (100 - 120W)  
**LED Engine + Driver Rated Life = 100,000 hrs<sup>2</sup>**

To learn more about the R1 Optic, please see the R1 Optic Information Sheet

Photometric Test Report Number	Decorative Option	Color Temperature	IES Distribution	Nominal Watts	Engine Series	Delivered Lumens <sup>3</sup>	Efficacy (LM/W) <sup>3</sup>	mA @ Emitter	Driver Output Current	BUG Rating	HID Equivalent <sup>4</sup>
In Testing	N/A	3000	Type III	40	1042	N/A	N/A	278	1670	N/A	50-70
In Testing	N/A	4000	Type III	40	1042	N/A	N/A	278	1670	N/A	50-70
In Testing	N/A	3000	Type V	40	1042	N/A	N/A	278	1670	N/A	50-70
In Testing	N/A	4000	Type V	40	1042	N/A	N/A	278	1670	N/A	50-70
In Testing	N/A	3000	Type III	60	1042	N/A	N/A	417	2500	N/A	70-100
In Testing	N/A	4000	Type III	60	1042	N/A	N/A	417	2500	N/A	70-100
In Testing	N/A	3000	Type V	60	1042	N/A	N/A	417	2500	N/A	70-100
In Testing	N/A	4000	Type V	60	1042	N/A	N/A	417	2500	N/A	70-100
In Testing	N/A	3000	Type III	75	1042	N/A	N/A	566	3400	N/A	100-150
In Testing	N/A	4000	Type III	75	1042	N/A	N/A	566	3400	N/A	100-150
In Testing	N/A	3000	Type V	75	1042	N/A	N/A	566	3400	N/A	100-150
In Testing	N/A	4000	Type V	75	1042	N/A	N/A	566	3400	N/A	100-150
In Testing	N/A	3000	Type III	100	1063	N/A	N/A	444	4000	N/A	150-175
In Testing	N/A	4000	Type III	100	1063	N/A	N/A	444	4000	N/A	150-175
In Testing	N/A	3000	Type V	100	1063	N/A	N/A	444	4000	N/A	150-175
In Testing	N/A	4000	Type V	100	1063	N/A	N/A	444	4000	N/A	150-175
In Testing	N/A	3000	Type III	120	1063	N/A	N/A	555	5000	N/A	150-200
In Testing	N/A	4000	Type III	120	1063	N/A	N/A	555	5000	N/A	150-200
In Testing	N/A	3000	Type V	120	1063	N/A	N/A	555	5000	N/A	150-200
In Testing	N/A	4000	Type V	120	1063	N/A	N/A	555	5000	N/A	150-200

R1 = 1st Generation Refractive Array

<sup>1</sup>Color temperature is nominal, please see test report for specific chromaticity information

<sup>2</sup>Contact factory for TM21 information/Driver specification

<sup>3</sup>Due to the continuous advancements in LED technology, luminaire delivered lumen and efficacy is subject to change without notice at the discretion of King Luminaire

<sup>4</sup>Equivalence should always be confirmed by performing a photometric layout, due to the variability of performance requirements and application criteria

