K118 WASHINGTON - LED

The King Luminaire K118 Washington is a beautiful depiction of this street light classic. This historical acorn shape teamed with King Luminaire’s high performance LED engines make for a perfect solution for city streets, parks, schools and commercial areas.

PRODUCT SPECIFICATIONS

RI/B3/B2 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.

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. Optical options are designed to efficiently control light distribution in IESNA Type IV & V for the B3/B2 and Type III & V for the RI.

P4 LED ENGINE
Light engine shall include an array of Cree X-Series high power LEDs (light emitting diodes). The emitters shall be mounted to a metal core circuit board using SMT technology. The LEDs and circuit boards shall then be mounted to a high performance heat sink. External light control shall consist of high precision refractive lenses mounted above the LED emitter arrays in such a way to achieve optimum uplight control. The lenses shall also control horizontal light distribution so that either Type II, III, IV or V IESNA distribution patterns are achieved.

LUMINAIRE CONSTRUCTION
All K118 Washington cast components shall consist of a heavy grade A319 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.

GLOBE ASSEMBLY
The protective globe shall be molded of either: rippled polycarbonate Miles Makrolon GP/OP Thermoplastic Polymer, or equivalent, or rippled acrylic Acrylite Plus Acrylic Polymer, or equivalent having a minimum thickness of 0.125”.

The globe assembly is a self-contained unit consisting of the globe, rugged cast locking ring, and the LED light engine and optical control. The LED light engine is of a modular design, and is able to be quickly removed from the globe assembly. The globe assembly is secured to the main housing by means of a spring-tensioned, twist-locking Rotolock™ unit to allow tool-less removal of the globe, while maintaining a secure seal between the globe assembly and the main body of the luminaire, making the K118 Washington suitable for an outdoor environment.

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 C62.412 C High. An in-line ferrite choke is utilized to provide protection against EFT’s. The driver assembly will be mounted on a heavy duty fabricated galvanized steel bracket to allow complete tool-less maintenance.

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 K118 Washington LED luminaire comes with a 7 year limited warranty.

CERTIFICATION:
CSA US Listed	Suitable for wet locations
ISO 9001	ARRA Compliant
IP66	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 C136.2 extreme level 20kV/10kA

EPA:
1.53 sq. ft.

FIXTURE WEIGHT:
38 lbs
FIXTURE OPTIONS

Capital Options

Decorative Options:

CONTEMPRA RING
GE RING
SOLID SPUN ALUMINUM TOP
WESTINGHOUSE RING & STRUTS

HOW TO ORDER

IES LIGHTING CLASSIFICATION
III - Type 2 (P4)
III - Type 3 (B2, R1, P4)
IV - Type 4 (B3, P4)
V - Type 5 (B3, R1, P4)

SERIES
1030 (40 - 100W P4)
1036 (40 - 75W B3)
1042 (40 - 75W B2, R1)
1054 (100W B3)
1063 (100W B2)
1063 (100 - 120W R1)

LINE VOLTAGE
120V (120-277)
480V (347-480)*
*Select wattages available within this range, contact King Luminaire

SOURCE
SSL - Solid State

CAPITAL
K13, K14, K16
K18, K26, K24
*Additional options available on website

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

PHOTO CONTROL OPTION
PR - Photo Receptacle
Available with K14, K18, K26 & K24
PE - Photo Receptacle and Photo Eye
Available with K14, K18, K26 & K24
PEBC - Photo Electric Buttoncell
*leave blank if not required

CONNECTION
Quick Disconnect is standard if terminal block is required, please specify TB

LUMINAIRE STYLE
K118R - Washington

OPTICAL OPTIONS
B2 - B2 Optic (Baffled Array)
B3 - B3 Optic (Baffled Array)
R1 - R1 Optic (Refractive Array)
P4 - P4 Optic (Flat Array)

LENS OPTIONS
AR - Acrylic Rippled
PR - Polycarbonate Rippled

SOLID SPUN ALUMINUM TOP

WATTAGE SELECTOR
W5 - Wattage Selector
* leave blank if not required

PAINT COLOR
GN - Federal Green
BE - Blue
GY - Gray
BN - Brown
BK - Black
BZ - Bronze
*Additional options available on website

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K118R - Washington

K118R - Washington

WWW.SCGRP.COM

KING LUMINAIRE