K329 RAINIER - LED

The K329 Rainier fixture offers an innovative take on the traditional acorn fixture. Adding contemporary touches to the graceful shape of the K124 Paragon, which was created out of the classic shapes of the early 20th century. The K329 Rainier brings the designs of the past into the 21st century.

King Luminaire

PROJECT:_____

PREPARED BY: _____

DATE:_____

PRODUCT SPECIFICATIONS

R1/B3 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. Both optical options are designed to efficiently control light distribution to produce IESNA Type IV & V for the B3 and Type III & V for the R1.

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 K329 Rainier 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; polycarbonate Miles Makrolon GP/OP Thermoplastic Polymer, or equivalent, or 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.

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. 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.

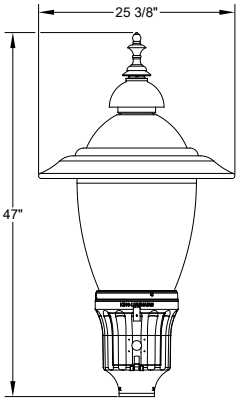
WIRING
All internal wiring and connections shall be completed so that it will be necessary only to attach the incoming supply connectors to Mate-N-Lok connectors or to a terminal block. Mate-N-Lok shall be certified for 600V operation. Internal wire connectors shall be crimp connector only and rated 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 K329 Rainier 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 C136.2
extreme level 20kV/10kA

EPA:
2.77 sq. ft.

FIXTURE WEIGHT:
Luminaire with B3: 50 lbs
Luminaire with R1: 50 lbs
Luminaire with P4: 44 lbs

POWER & LUMENS

Test Voltage: 120V
Nominal Color Temperature: 3000K & 4000K[1]
7030 Engine Series: 30 Emitters (40 - 100W Max)
LED Engine + Driver Rated Life = 100,000 hrs[2]

To learn more about the P4 Optic, please see the P4 Optic Information Sheet

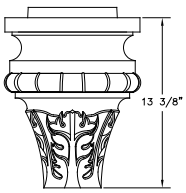
Photometric Test Report Number	Decorative Option	Color Temperature	IES Distribution	Nominal Watts	Engine Series	Delivered Lumens[3]	Efficacy (LM/W)[3]	mA @ emitter	Driver Output Current	BUG Rating	HID Equivalent[4]
0329TP4AC3X06030XXB	N/A	3000	Type III	60	7030	5341	85.3	600	3000	2-3-2	70-100
0329TP4AC3X06040XXA	N/A	4000	Type III	60	7030	5116	85.1	600	3000	2-3-2	70-100
In Testing	N/A	3000	Type IV	60	7030	N/A	N/A	N/A	N/A	N/A	N/A
In Testing	N/A	4000	Type IV	60	7030	N/A	N/A	N/A	N/A	N/A	N/A
0329TP4AC3X07530XXB	N/A	3000	Type III	75	7030	6210	81.1	800	4000	2-3-2	100-150
0329TP4AC3X07540XXA	N/A	4000	Type III	75	7030	6115	79.3	800	4000	2-3-2	100-150
In Testing	N/A	3000	Type IV	75	7030	N/A	N/A	N/A	N/A	N/A	N/A
0329TP4AC4X07540XXA	N/A	4000	Type IV	75	7030	6039	80.1	800	4000	1-3-2	100-150
0329TP4AC3X10030XXB	N/A	3000	Type III	100	7030	7350	73.6	960	4800	2-3-2	150-200
0329TP4AC3X10040XXA	N/A	4000	Type III	100	7030	7270	74.0	960	4800	2-3-2	150-200
In Testing	N/A	3000	Type IV	100	7030	N/A	N/A	N/A	N/A	N/A	N/A
0329TP4AC4X10040XXA	N/A	4000	Type IV	100	7030	7247	74.3	960	4800	1-3-2	150-200

P4 = 4th Generation Flat Array

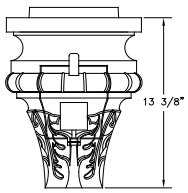
[1]Color temperature is nominal, please see test report for specific chromaticity information
[2]Contact factory for TM21 information/Driver specification
[3]Due to the continuous advancements in LED technology, luminaire delivered lumen and efficacy is subject to change without notice at the discretion of King Luminaire
[4]Equivalence should always be confirmed by performing a photometric layout, due to the variability of performance requirements and application criteria

FIXTURE OPTIONS

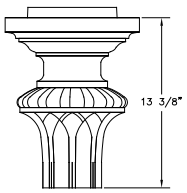
Capital Options



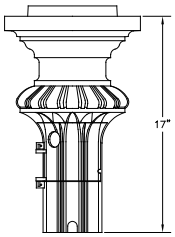
K13



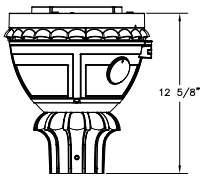
K14 C/W PR



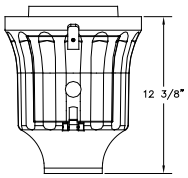
K16



K18 C/W PR

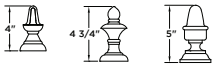


K26 C/W PR



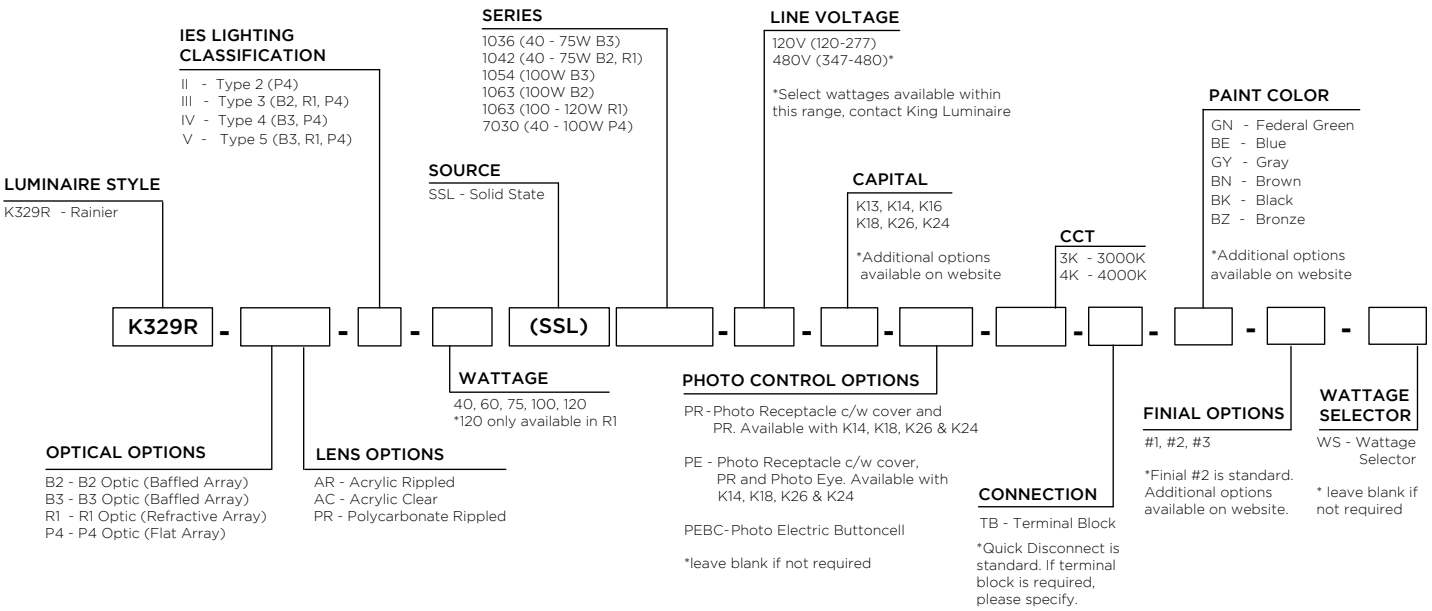
K24 C/W PR

Finial Options



#1 #2 #3

HOW TO ORDER


LUMINAIRE STYLE
K329R - Rainier
IES LIGHTING CLASSIFICATION
II - Type 2 (P4)
III - Type 3 (B2, R1, P4)
IV - Type 4 (B3, P4)
V - Type 5 (B3, R1, P4)
SOURCE
SSL - Solid State
SERIES
1036 (40 - 75W B3)
1042 (40 - 75W B2, R1)
1054 (100W B3)
1063 (100W B2)
1063 (100 - 120W R1)
7030 (40 - 100W P4)
LINE VOLTAGE
120V (120-277)
480V (347-480)*
*Select wattages available within this range, contact King Luminaire
CAPITAL
K13, K14, K16
K18, K26, K24
*Additional options available on website
CCT
3K - 3000K
4K - 4000K
PAINT COLOR
GN - Federal Green
BE - Blue
GY - Gray
BN - Brown
BK - Black
BZ - Bronze
*Additional options available on website
K329R
(SSL)
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
AC - Acrylic Clear
PR - Polycarbonate Rippled
WATTAGE
40, 60, 75, 100, 120
*120 only available in R1
PHOTO CONTROL OPTIONS
PR - Photo Receptacle c/w cover and PR. Available with K14, K18, K26 & K24
PE - Photo Receptacle c/w cover, PR and Photo Eye. Available with K14, K18, K26 & K24
PEBC - Photo Electric Buttoncell
*leave blank if not required
CONNECTION
TB - Terminal Block
*Quick Disconnect is standard. If terminal block is required, please specify.
FINIAL OPTIONS
#1, #2, #3
*Finial #2 is standard. Additional options available on website.
WATTAGE SELECTOR
WS - Wattage Selector
* leave blank if not required