



K136 REGENCY - LED

The K136 Regency has classic style and elegance, with its graceful floral struts and crowning tulip finial and complements any architectural environment. It enhances the atmosphere of any surrounding and teamed with King's high performance LED engines it makes for a perfect solution for city streets, parks, schools and commercial areas.

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 in 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 Type II, III, IV or V IESNA distribution patterns are achieved.

LUMINAIRE CONSTRUCTION

All K136 Regency 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 K136 Regency suitable for an outdoor environment.

High performance protection against water or dust particle ingress is available by means of a non-porous, closed-cell silicon rubber o-ring gasket which is highly efficient in sealing against particle ingress over a wide temperature range (-40°F to 310°F).

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 3000 & 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 SEWF-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

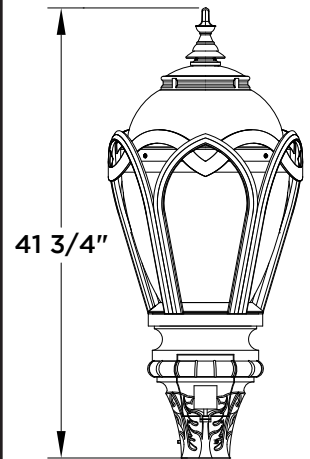
Housing is finished with a 13 step KingCoat™ SuperDurable polyester TGIC powder coat. Standard colors include strobe white, brown metal, marina blue, gate gray, Chicago bronze, standard gold, standard black, federal green and rain forest. Please see our website for a complete list of colors. RAL and 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 K136 Regency 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:

1.55 sq. ft.

FIXTURE WEIGHT:

40 lbs





Test Voltage: 120V
Nominal Color Temperature: 3000K & 4000K¹
1036 Engine Series: 36 Emitters (40 - 75W)
1054 Engine Series: 54 Emitters (100W)
LED Engine + Driver Rated Life = 100,000 hrs²

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 ³	Efficacy (LM/W) ³	mA @ Emitter	Driver Output Current	BUG Rating	HID Equivalent ⁴
0100WB3AR4X04030XXB	SST/Struts	3000	Type IV	40	1036	1969	48.6	333	2000	1-3-2	50-70
0100WB3AR4X04040XXA	SST/Struts	4000	Type IV	40	1036	2637	65.3	333	2000	1-3-2	50-70
0100WB3AR5X04030XXB	SST/Struts	3000	Type V	40	1036	2218	54.8	333	2000	2-3-2	50-70
0100WB3AR5X04040XXA	SST/Struts	4000	Type V	40	1036	2730	63.9	333	2000	2-3-2	50-70
0100WB3AR4X06030XXB	SST/Struts	3000	Type IV	60	1036	2754	45.1	500	3000	1-3-2	70-100
0100WB3AR4X06040XXX	SST/Struts	4000	Type IV	60	1036	4119	67.6	500	3000	1-3-1	70-100
0100WB3AR5X06030XXB	SST/Struts	3000	Type V	60	1036	3121	51.2	500	3000	2-3-2	70-100
0100WB3AR5X06040XXA	SST/Struts	4000	Type V	60	1036	3736	59.5	500	3000	2-3-2	70-100
0100WB3AR4X07530XXB	SST/Struts	3000	Type IV	75	1036	3222	42.7	667	4000	1-3-3	100-150
0100WB3AR4X07540XXA	SST/Struts	4000	Type IV	75	1036	4391	58	667	4000	1-3-3	100-150
0100WB3AR5X07530XXB	SST/Struts	3000	Type V	75	1036	3624	48.3	667	4000	2-3-2	100-150
0100WB3AR5X07540XXA	SST/Struts	4000	Type V	75	1036	4328	57.3	667	4000	3-3-2	100-150
0100WB3AR4X10030XXB	SST/Struts	3000	Type IV	100	1054	4224	41	533	4800	1-3-3	150-200
0100WB3AR4X10040XXA	SST/Struts	4000	Type IV	100	1054	5378	51.7	533	4800	1-3-3	150-200
0100WB3AR5X10030XXB	SST/Struts	3000	Type V	100	1054	4976	48.2	533	4800	3-3-3	150-200
0100WB3AR5X10040XXA	SST/Struts	4000	Type V	100	1054	5344	53.2	533	4800	3-3-3	150-200

B3 = 3rd Generation Baffled Array
 Solid Spun Top with Rings and Struts (SST/Struts) and Acrylic Rippled Lens



Test Voltage: 120V
Nominal Color Temperature: 3000K & 4000K¹
1042 Engine Series: 42 Emitters (40 - 75W)
1063 Engine Series: 63 Emitters (100 - 120W)
LED Engine + Driver Rated Life = 100,000 hrs²

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 ³	Efficacy (LM/W) ³	mA @ Emitter	Driver Output Current	BUG Rating	HID Equivalent ⁴
0100WR1AR3X04030XXB	SST/Struts	3000	Type III	40	1042	2270	57.8	278	1670	1-3-2	50-70
0100WR1AR3X04040XXA	SST/Struts	4000	Type III	40	1042	3123	77.3	278	1670	-	50-70
0100WR1AR5X04030XXB	SST/Struts	3000	Type V	40	1042	2256	57.6	278	1670	1-3-2	50-70
0100WR1AR5X04040XXA	SST/Struts	4000	Type V	40	1042	2630	66.4	278	1670	2-3-2	50-70
0100WR1AR3X06030XXB	SST/Struts	3000	Type III	60	1042	3401	53.2	417	2500	1-3-2	70-100
0100WR1AR3X06040XXA	SST/Struts	4000	Type III	60	1042	4221	64.9	417	2500	1-3-3	70-100
In Testing	SST/Struts	4000	Type V	60	1042	N/A	N/A	417	2500	N/A	70-100
0100WR1AR5X06040XXA	SST/Struts	4000	Type V	60	1042	3978	61.7	417	2500	2-3-2	70-100
0100WR1AR3X07530XXB	SST/Struts	3000	Type III	75	1042	3981	50.4	566	3400	1-3-3	100-150
0100WR1AR3X07540XXA	SST/Struts	4000	Type III	75	1042	4858	60.8	566	3400	2-3-3	100-150
In Testing	SST/Struts	3000	Type V	75	1042	N/A	N/A	566	3400	N/A	100-150
0100WR1AR5X07540XXA	SST/Struts	4000	Type V	75	1042	4661	58.6	566	3400	3-3-2	100-150
In Testing	SST/Struts	3000	Type III	100	1063	N/A	N/A	444	4000	N/A	150-175
In Testing	SST/Struts	4000	Type III	100	1063	N/A	N/A	444	4000	N/A	150-175
In Testing	SST/Struts	3000	Type V	100	1063	N/A	N/A	444	4000	N/A	150-175
0100WR1AR5X10040XXA	SST/Struts	4000	Type V	100	1063	6116	59.7	444	4000	3-3-3	150-175
In Testing	SST/Struts	3000	Type III	120	1063	N/A	N/A	555	5000	N/A	150-200
In Testing	SST/Struts	4000	Type III	120	1063	N/A	N/A	555	5000	N/A	150-200
In Testing	SST/Struts	3000	Type V	120	1063	N/A	N/A	555	5000	N/A	150-200
0100WR1AR5X12040XXA	SST/Struts	4000	Type V	120	1063	6825	56.8	555	5000	-	150-200

R1 = 1st Generation Refractive Array
 Solid Spun Top with Rings and Struts (SST/Struts) and Acrylic Rippled Lens

¹Color temperature is nominal, please see test report for specific chromaticity information

²Contact factory for TM21 information/Driver specification

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

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



Test Voltage: 120V
 Nominal Color Temperature: 3000K & 4000K¹
 7030 Engine Series: 30 Emitters (40 - 100W Max)
 LED Engine + Driver Rated Life = 100,000 hrs²

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 ²	Efficacy (LM/W) ²	mA @ emitter	Driver Output Current	BUG Rating	HID Equivalent ⁴
0100WP4AR3X04030XXB	SST/Struts	3000	Type III	40	7030	2563	63.6	400	2000	1-3-1	50-70
0100WP4AR3X04040XXA	SST/Struts	4000	Type III	40	7030	3279	79.6	400	2000	1-3-1	50-70
0100WP4AR5X04030XXB	SST/Struts	3000	Type III	40	7030	2744	67.8	400	2000	1-3-1	50-70
0100WP4AR5X04040XXA	SST/Struts	4000	Type V	40	7030	3369	82	400	2000	1-3-1	50-70
0100WP4AR3X06030XXX	SST/Struts	3000	Type III	60	7030	3665	60.3	600	3000	1-3-1	70-100
0100WP4AR3X06040XXA	SST/Struts	4000	Type III	60	7030	4568	73.6	600	3000	2-3-2	70-100
0100WP4AR5X06030XXB	SST/Struts	3000	Type V	60	7030	3827	62.3	600	3000	2-3-1	70-100
0100WP4AR5X06040XXA	SST/Struts	4000	Type V	60	7030	4567	73.7	600	3000	2-3-1	70-100
0100WP4AR3X07530XXB	SST/Struts	3000	Type III	75	7030	4187	55.6	800	4000	-	100-150
0100WP4AR3X07540XXA	SST/Struts	4000	Type III	75	7030	5275	69.1	800	4000	2-3-2	100-150
0100WP4AR5X07530XXB	SST/Struts	3000	Type V	75	7030	4419	58	800	4000	2-3-1	100-150
0100WP4AR5X07540XXA	SST/Struts	4000	Type V	75	7030	5310	69.1	800	4000	2-3-1	100-150
0100WP4AR3X10030XXB	SST/Struts	3000	Type III	100	7030	4961	50.8	960	4800	-	150-200
0100WP4AR3X10040XXA	SST/Struts	4000	Type III	100	7030	6291	63.5	960	4800	2-3-2	150-200
0100WP4AR5X10030XXB	SST/Struts	3000	Type V	100	7030	5080	52	960	4800	2-3-1	150-200
0100WP4AR5X10040XXA	SST/Struts	4000	Type V	100	7030	6383	64.7	960	4800	2-3-2	150-200

P4 = 4th Generation Flat Array

Solid Spun Top with Rings and Struts (SST/Struts) and Acrylic Rippled Lens

¹Color temperature is nominal, please see test report for specific chromaticity information

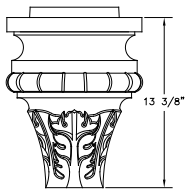
²Contact factory for TM21 information/Driver specification

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

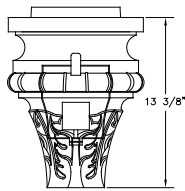
⁴Equivalence should always be confirmed by performing a photometric layout, due to the variability of performance requirements and application criteria

FIXTURE OPTIONS

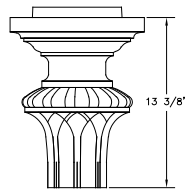
Capital Options



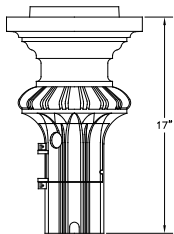
K13



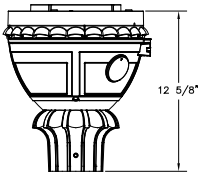
K14 C/W PR



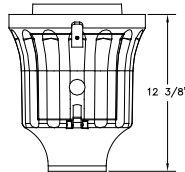
K16



K18 C/W PR



K26 C/W PR



K24 C/W PR

Finial Options



#1



#2



#3

