



K585 RADIUS STRUT - LED



The elongated struts of the K585 Radius Strut provide a modern simplicity. Can be combined with any of the four spinnings or strut options. A perfect fit for any of the King Luminaire metal poles or StressCrete spun concrete poles.

PROJECT: _____

PREPARED BY: _____

DATE: _____

PRODUCT SPECIFICATIONS

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 which is vented to the outside ambient air to provide dynamic airflow for cooling the system.

OPTICS

External light control shall consist of high precision refractive lenses mounted above the LED emitter arrays in such a way to achieve optimum upright 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 K585 Radius Strut cast components shall consist of 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 of the 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.

There shall be 2, 3 or 4 cast aluminum decorative contemporary struts that are mechanically attached by stainless steel screws to the capital (bottom) and cast aluminum heat sink LED mounting plate (top). The outer body of the fixture is comprised of a one-piece decorative spinning that completes the overall architectural appearance 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, and less than 20% total harmonic distortion. The case temperature of the driver can range from -40°C 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 mounting bracket.

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. 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 to DOE sanctioned standards to determine the maximum in-situ solder-point or junction-point temperatures of the LED emitters. This report is available upon request.

FINISH

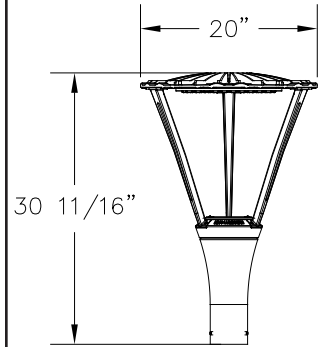
Housing is finished with a 13 step KingCoat™ SuperDurable polyester TGIC powder coat. Standard colors include strobe white, brown metal, marina blue, gate gray, Chicago bronze, standard gold, standard black, federal green and rain forest. Please see our website for a complete list of colors. RAL and 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 K585 Radius Strut 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:

0.51 sq. ft.

FIXTURE WEIGHT:

37 lbs



POWER & LUMENS

K585 RADIUS STRUT - LED



Test Voltage: 120V
Nominal Color Temperature: 3000K & 4000K¹
8060 Engine Series: 60 Emitters (120W Max)
8084 Engine Series: 84 Emitters (200W 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 ³ | Efficacy (LM/W) ³ | mA @ emitter | Driver Output Current | BUG Rating | HID Equivalent ⁴ |
|--------------------------------|-------------------|-------------------|------------------|---------------|---------------|-------------------------------|------------------------------|--------------|-----------------------|------------|-----------------------------|
| 05854P4FL3X02530XXE | No Lens | 3000 | Type III | 25 | 8060 | 3198 | 132 | 125 | 1250 | 1-0-1 | 30-50 |

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

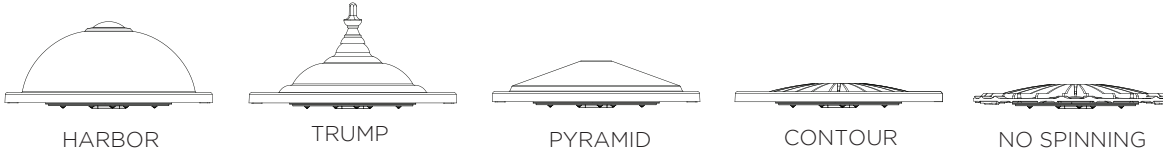
²Contact factory for TM21 information

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

SPINNING OPTIONS



FINIAL OPTIONS



1 FINIAL

STRUT OPTIONS

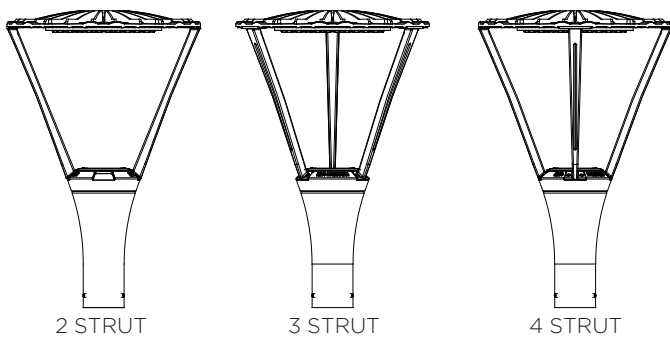
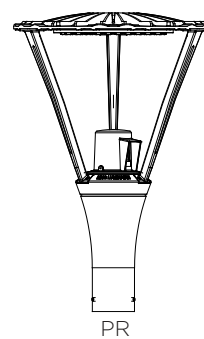
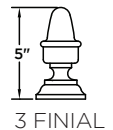


PHOTO RECEPTICAL



2 FINIAL



3 FINIAL

HOW TO ORDER

