



## K582 PILLAR STRUT - LED

As part of the SKYLINE Series, the straight clean lines of the K582 Pillar Strut is what make it stand out. When teamed with the pyramid spinning, it provides a contemporary, low maintenance alternative to a traditional four sided lantern.



**King  
Luminaire**

## 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 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 K582 Pillar Strut cast components shall consist of heavy cast aluminum. The main body, or capital, shall act as an enclosure for the driver assembly and shall be 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 x 3-1/2" maximum length. 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 pillar 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 shall be comprised of a one-piece decorative spinning that completes the overall architectural appearance of the luminaire.

### DRIVER

The LED universal dimmable driver shall be DALI-2 D4i and capable of 108 - 305V or 249 - 528V input voltage, greater than 0.9 power factor, and less than 20% total harmonic

distortion. Each LED system shall come with built-in, high-capacity surge protection, in addition to a complementary SPD added by King Luminaire, designed to withstand up to 20kV/10kA of transient line surge as per IEEE C62.41.2 C High and ANSI C136.2 Extreme Level (20kV/10kA). An in-line ferrite choke shall be utilized to provide protection against EFT's. The driver assembly shall work with service feeds powered with one hot wire and a neutral or two hot wires. The case temperature of the driver shall range from -40°C up to 70°C. The driver assembly shall be mounted on a heavy duty fabricated aluminum mounting bracket.

### PHOTOMETRICS

Fixtures shall be tested to IESNA LM79 specifications. These reports are to be available upon request.

### CHROMATICITY

High output LEDs shall come standard at 2700K, 3000K, & 4000K (+/- 300K) with a minimum nominal 70 CRI. Additional CCT emitters are to be available upon request.

### LUMEN MAINTENANCE

Reported (TM21) and Calculated (L70) reports are to be 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 105°C. All wiring to be CSA certified and/or UL listed, type SFF-2, SEWF-2, or SEW-2 No. 14 gauge, 105°C, 600V.

### THERMALS

Fixtures shall be tested to DOE sanctioned standards to determine the maximum in-situ solder-point or junction-point temperatures of the LED

emitters. This report is to be available upon request.

### FINISH

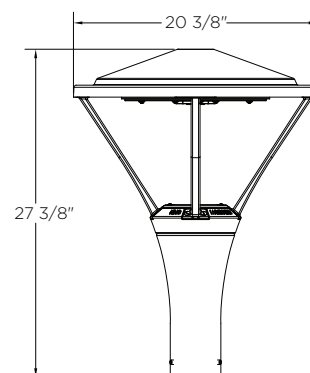
Housing shall be finished with a 13 step KingCoat™ SuperDurable polyester TGIC powder coat. Standard colors shall include strobe white, brown metal, marina blue, gate gray, Chicago bronze, standard gold, standard black, federal green, and rain forest. Please see our website for a complete list of colors.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

### MISCELLANEOUS

All exterior hardware and fasteners, wholly or partly exposed, shall be stainless steel alloy. All internal fasteners shall be stainless steel or zinc coated steel. All remaining internal hardware shall be stainless steel, aluminum alloy, or zinc coated steel.

### WARRANTY

The K582 Pillar Strut LED luminaire shall come with a 7 year limited warranty.



### CERTIFICATION:

CSA US Listed  
Suitable for wet locations  
ISO 9001  
IP66  
ARRA Compliant  
LM79 / LM80 Compliant  
IDA Certified\*

### 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  
Dimming Capable

### EPA:

0.52 sq. ft.

### FIXTURE WEIGHT:

37 lbs



Not all product variations listed on this page are DLC qualified.  
Visit [www.designlights.org/search](http://www.designlights.org/search) to confirm qualification.  
\*DarkSky Certification applicable for maximum 3000K CCT.  
Glass lenses do not apply.  
Contact King Luminaire for product specifications that are  
exempt from CSA Certification  
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The diagrams show five different roof profiles from left to right:

- HARBOR**: A simple, low, rounded dome shape.
- TRUMP**: A dome shape with a small, multi-tiered spire on top.
- PYRAMID**: A flat-topped pyramid shape.
- CONTOUR**: A low, elongated shape with a series of vertical lines indicating a segmented or ribbed structure.
- NO SPINNING**: A low, elongated shape with a series of vertical lines, similar to the Contour shape but potentially representing a different structural approach.

PR7/PE7

Diagram showing three chess pieces labeled #1, #2, and #3, with their heights indicated by vertical dimension lines:

- Piece #1: Height is 4".
- Piece #2: Height is  $4\frac{3}{4}$ ".
- Piece #3: Height is 5".

**IES LIGHTING CLASSIFICATION**

- II - Type 2
- III - Type 3
- IV - Type 4
- V - Type 5

**WATTAGE**

25, 40, 60, 75, 100, 120, 150, 200

**SOURCE**

SSL - Solid State

**LINE VOLTAGE**

120V-277V  
347V-480V

\*Can accomodate a specific voltage within either of these ranges.

**STRUT QUANTITY**

- 2 - 2 Strut Style
- 3 - 3 Strut Style
- 4 - 4 Strut Style

**CCT**

27K - 2700K  
30K - 3000K  
40K - 4000K

**PHOTO CONTROL OPTION**

PR7 - Photo Receptacle  
PE7 - Photo Receptacle and Photo Eye

\* leave blank if not required.

**SLIP FITTER**

3DT - 3" Ø Tenon

\* leave blank for 3 1/2" Ø standard tenon.

**FINIAL OPTIONS**

NR - Finial not required  
#1, #2, #3

\*Additional options available on website.  
If Contour Spinning selected, NR finial option must be specified.

**LIGHT SHAPING**

LPS - Low Profile House Side Shield  
LGD - LED Glare Diffuser (Nimbus Optic)

\*leave blank if not required

**WATTAGE SELECTOR**

WS - Wattage Selector

\* leave blank if not required. Reset to full output prior to utilizing smart Controls.

**PAINT COLOR**

- GN - Federal Green
- BE - Blue
- GY - Gray
- BN - Brown
- BK - Black
- BZ - Bronze

\*Additional options available on website. BK will be provided if blank.

**LUMINAIRE STYLE**

K582 - Pillar Strut

**OPTICAL OPTIONS**

P4 - P4 Optic (Flat Array)

**LENS OPTIONS**

FL - Flat (No Lens)

**SPINNING STYLE**

- CS - Contour Spinning
- PS - Pyramid Spinning
- HS - Harbor Spinning
- TS - Trump Spinning

\* leave blank if no spinning required.