



K429 - ORION LED

The K429 Orion has a unique streamlined appearance with four decorative struts that add to its modern appeal. This impressive looking fixture is ideal for parking lots, waterfronts, and streetscapes.



**King
Luminaire**

PRODUCT SPECIFICATIONS

LED ENGINE

The light engine shall be an array of Cree Surface Mounted diodes mounted to a highly conductive aluminum extrusion with the use of 2 electrical connectors. The aluminum extrusion shall be mechanically attached to a thermal heat sink at both the top and the bottom of the aluminum extrusion. It shall remain in thermal contact to the heat sinks with the use of conductive silicone. There shall be an aluminum upright reflector in both Type III & Type V IESNA distribution patterns.

REFRACTIVE GLOBE

The prismatic refractor shall be made of injection moulded acrylic or polycarbonate. It shall maintain a minimum thickness of 1/4".

The acrylic globe shall be secured to the luminaire body by means of 3-3/8" x 1-3/4" stainless steel set screws.

LUMINAIRE CONSTRUCTION

All cast components shall consist of a 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. There shall be 4 cast aluminum decorative struts that are attached to the capital (bottom) and top globe ring.

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 x 3-1/2" maximum length. The luminaire shall be locked in place by means of heavy duty, stainless steel set screws.

DECORATIVE TOP

The top decorative portion of the K429 Orion shall be comprised of a one piece spun aluminum alloy with a minimum thickness of 0.040". It shall be attached

to the top globe ring with the use of an aluminum hinge. The spinning shall be held in place by three stainless steel latches. This allows for tool-less access to the optical chamber.

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-Loc connectors or to a terminal block. Mate-N-Loc 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 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 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 or custom color matches are to be available.

SHIELDING

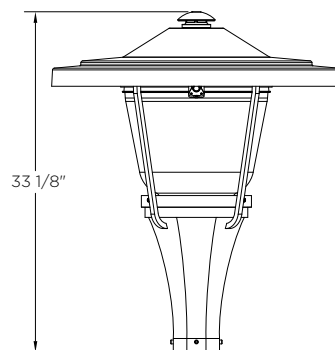
Fixtures shall have the ability to have shielding installed to limit/eliminate light trespass. Please enquire for specific shielding options available.

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 K429 Orion LED Luminaire shall come with a 7 year limited warranty.



CERTIFICATION:

Suitable for wet locations
ISO 9001
IP66
DLC
ARRA Compliant
LM79 / LM80 Compliant

DRIVER INFO:

>0.9 Power Factor
<20% Total Harmonic Distortion
120 - 277V & 347 - 480V
-40°C Min. Case Temperature
60°C Max. Case Temperature
Surge Protection: ANSI C136.2
extreme level 20kV/10kA
Dimming Capable

EPA:

1.96 sq. ft.

FIXTURE WEIGHT:

45 lbs



HOW TO ORDER

K429 ORION - LED

