



KCK56 P4 LED CONVERSION KIT

The King Luminaire Cleveland/Tudor engineered conversion system offers a simple way to upgrade your HID fixture to a tested LED system that will require little maintenance. The P4 LED Engine can cut energy consumption by more than 50% while still maintaining an attractive nightscape appearance.



PRODUCT SPECIFICATIONS

LED ENGINE

Luminaire light source shall be composed of 30 Cree White 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 into the existing King Luminaire K56 fixture. The emitters shall be so constructed to provide a minimum system efficacy of 60 lm/w, while continuing to provide at least 70% of their initial light output after a minimum of 60,000 hours continuous use.

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 either IESNA Type III or V IESNA distribution patterns are achieved.

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.

DRIVER

The LED universal dimmable driver will be class 2 and capable 120 - 277V or 277 - 480V input voltage, greater than 0.9 power factor, less than 20% total harmonic distortion and feature ambient temperature range of -35° C up to 65°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. The driver assembly will be mounted on a heavy duty fabricated galvanized steel mounting bracket to allow complete tool-less maintenance. Dimming capable using 1-10vdc (10% to 100%), 10v PWM, or resistance.

PHOTOMETRICS

Fixtures are tested to IESNA LM79 specifications. These reports are made available.

CHROMATICITY

High output LEDs come standard at 3000K and 4000K (+/- 250K) 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.

THERMALS

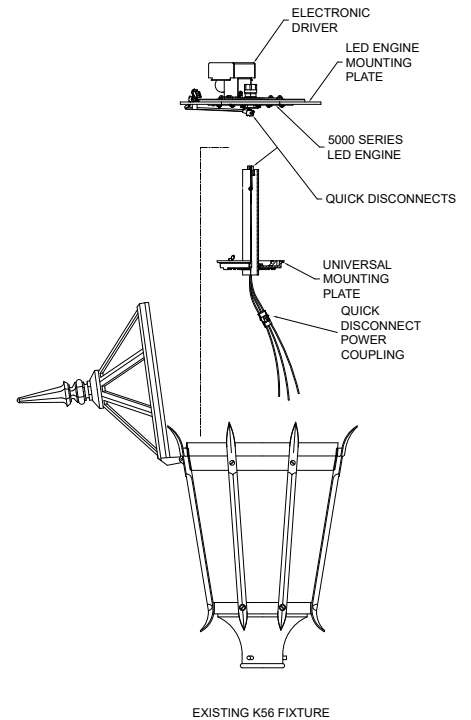
Fixtures tested to DOE sanctioned standards to determine the maximum in-situ solder-point or junction-point temperatures of the LED emitters. This report will be made available.

MISCELLANEOUS

All internal hardware shall be stainless steel, aluminium alloy, or zinc coated steel.

WARRANTY

KCK56 LED Cleveland/Tudor comes 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:

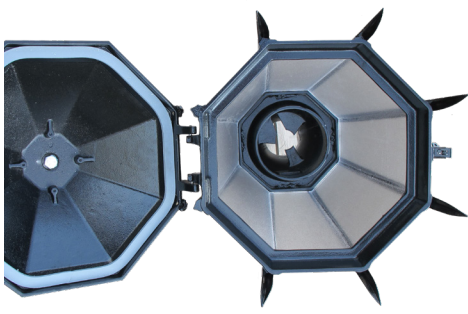
>0.9 Power Factor
<20% Total Harmonic Distortion
120 - 277V & 347 - 480V
-40°C Min. Case Temperature
70°C Max. Case Temperature
Surge Protection: ANSI C136.2 extreme level
20kV/10kA
Dimming Capable: 1-10vdc



*IDA Certification applicable for maximum 3000K CCT.
Glass lenses do not apply.
Contact King Luminaire for product specifications that are exempt from CSA Certification.
08-27-2021

STEP BY STEP CONVERSION

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STEP 1: REMOVE HID BALLAST & OPTICS



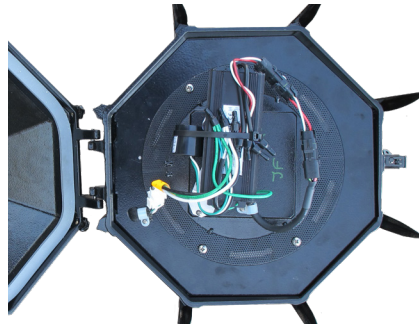
STEP 2: CONNECT WIRES & PLACE MOUNTING PLATE, TIGHTEN SET SCREWS



STEP 3: PLACE FAAR IN K56 LID WITH LED ARRAY FACING UP



STEP 4: CONNECT P4 LED ENGINE



STEP 5: PLACE P4 ENGINE IN FIXTURE



STEP 6: CLOSE LID AND LATCH

HOW TO ORDER

