

K56 P4 LED CONVERSION KIT TUDOR & CLEVELAND FIXTURE

PRODUCT DESCRIPTION

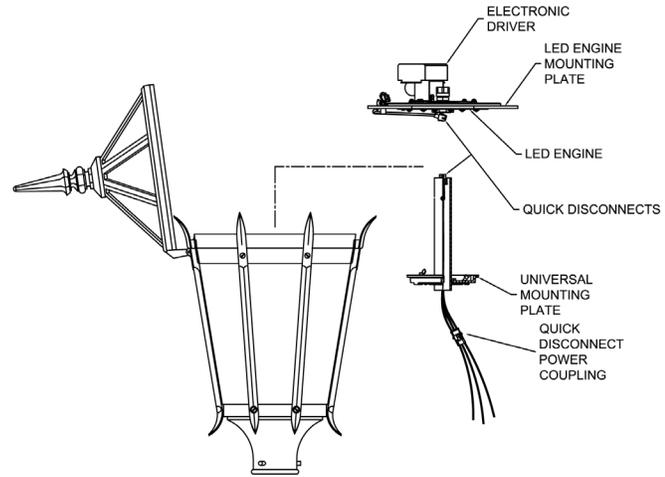
The King Luminaire Cleveland Conversion System offers a simple way to convert to high efficiency LED. With tested optical control and thermal management, King's engineered conversion system upgrades your HID fixture to a tested LED system that will require little maintenance. The P4 LED Engine can cut energy consumption by more than 50% while still maintaining an attractive nightscape appearance. This conversion option is available in 40 - 75 watts.

P4 FLAT ARRAY

King Luminaire's Flat Array offers directional light output utilizing a flat LED array mounted inside the top of the Cleveland/Tudor fixture. It is available in type III & V IES distributions by utilizing refractive emitter discs incorporated into the optical design, this offers very little up light above 90 degrees with optimal light distribution.

ORDERING INFORMATION

CONVERSION STYLE Cleveland	IES LIGHTING CLASSIFICATION III - Type 3 V - Type 5	SOURCE SSL - Solid State	VOLTAGE 120 240 277			
KCK56	P4	III	60	SSL	7030	120
OPTICAL OPTIONS P4 - P4 Flat Array		INPUT WATTAGE 40 (7030 Series) 60 (7030Series) 75 (7030 Series)	SERIES 7030			



EXISTING K56 FIXTURE

LUMEN OUTPUT & ELECTRICAL*

Wattage (90 - 277v)	Delivered Lumens	Input power
40	3044	41W
60	4675	62W
75	5907	83W

PERFORMANCE SUMMARY*

King Luminaire Flat Array
(less than 5% uplight)
75 Watt BUG Rating: B1-U3-G1
CRI: Minimum 70 CRI
CCT: 4000 (+/- 300K)
Number of Emitters: 30
Warranty: 7 years on LED Conversion System
Made in the USA

STEP BY STEP CONVERSION

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

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

*Contact factory for TM21 information

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

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

LED ENGINE

Luminaire light source shall be composed of 30 Cree XPG White high power LED's (light emitting diodes). The emitters shall be mounted to a metal core circuit board using SMT technology. The LED's 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 upright 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 20KA/10Kv 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. Included will be a multi-wattage selector switch which will allow the output power of the driver to be field selectable.

PHOTOMETRICS

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

CHROMATICITY

High output LED's come standard at 4500K (+/- 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 100,000hrs.

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.

