



## KCK200 LED CONVERSION KIT

The King Luminaire LED Conversion Kits offer a simple way to convert to high efficiency LED. With tested optical control and dynamic thermal management, King Luminaire's P4 Flat Array LED Conversion kit is a complete tested system that requires little maintenance and provides high-performance light quality.



King  
Luminaire

## PRODUCT SPECIFICATIONS

### LED ENGINE

Light engine shall include an array of 30 solid state 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.

### 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 III or V IESNA distribution patterns are achieved.

### LENS

The conversion kit is available with or without a lens. Lens options include clear glass (borosilicate) sag, clear glass (borosilicate) shallow, rippled glass (borosilicate) shallow, acrylic shallow refractive, polycarbonate shallow refractive, rippled acrylic deep dish and rippled glass (borosilicate) deep dish. The lens is secured by means of a cast A319 aluminum globe ring that is sealed with a continuous circular gasket.

### 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, 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 aluminum bracket to allow complete tool-less maintenance.

### 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 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.

### 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

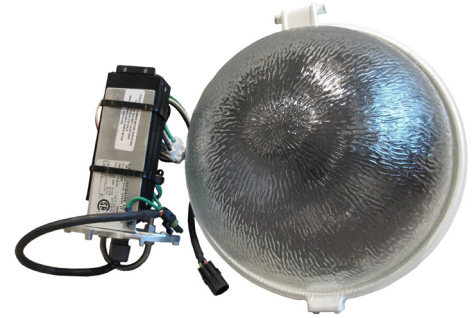
Housing is finished with a 13 step King-Coat™ SuperDurable polyester TGIC powder coat. Standard colors include strobe white, brown metal, marina blue, gate gray, Chicago bronze, standard gold, standard black, federal green and rain forest. Please see our website for a complete list of colors. RAL and 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 LED luminaire conversion kit 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



Contact King Luminaire for product specifications that are exempt from CSA Certification. 08-26-2021

# STEP BY STEP CONVERSION

## KCK200 LED CONVERSION KIT



**STEP 1:** SELECT HID FIXTURE FOR CONVERSION TO LED



**STEP 2:** UNLATCH AND REMOVE LENS AND GASKET FROM SHROUD



**STEP 3:** ROTATE BALLAST PLATE CLOCKWISE AND REMOVE



**STEP 4:** CONNECT LED DRIVER ASSEMBLY



**STEP 5:** ROTATE DRIVE ASSEMBLY COUNTER CLOCKWISE TO LOCK IN PLACE



**STEP 6:** PLACE LENS ON HINGE AND APPLY NEW GASKET TO SHROUD



**STEP 7:** CONNECT DRIVE TO LED ENGINE



**STEP 8:** LATCH LENS INTO PLACE

# HOW TO ORDER

