



# K59 CLARKSTOWN - LED

With a similar design, the K59 Clarkstown is a stylish alternative to our popular K56 Cleveland/Tudor luminaire. This octagonal fixture offers a traditional look that will add poise and elegance to any setting.



PROJECT: \_\_\_\_\_

PREPARED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

## 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.

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 Type II, III, IV or V IESNA distribution patterns are achieved.

### LENS

The lens panels shall be made of polycarbonate or acrylic. The polycarbonate shall be a minimum of 3/16" thick and composed of Bayer Makrolon LTG 3123, General Electric Lexan 243, or equivalent. The acrylic shall be a minimum of 3/16" thick and composed of AtoHaas V825-UVA5A, ICI CP-75-UVA, Cyro S-10-343, or equivalent. This is available in either clear or rippled configurations.

### LUMINAIRE CONSTRUCTION

All K59 Clarkstown cast components shall consist of a heavy grade A319 cast aluminum. The main body, or capital, is of adequate thickness to give sufficient structural rigidity. 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. The luminaire shall be locked in place by means of heavy duty, stainless steel set-screws.

### LUMINAIRE ASSEMBLY

The luminaire assembly is a self-contained unit consisting of a rugged cast aluminum body, and the LED light engine consisting of an aluminum casting housing the optics. The LED light engine is of a modular design, and is able to be quickly removed from the luminaire assembly without the need to disassemble the luminaire assembly itself. The luminaire assembly is composed of octagonal cast top and bottom rings and eight cast aluminum struts comprising the housing. The hinged lid is cast aluminum and is secured to

the main housing by a stainless steel rotary latch.

### 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 -35°C up 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 is located in the lid and mounted to a heavy duty aluminum bracket attached to the back of the LED engine.

### 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. 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 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 available upon request.

### FINISH

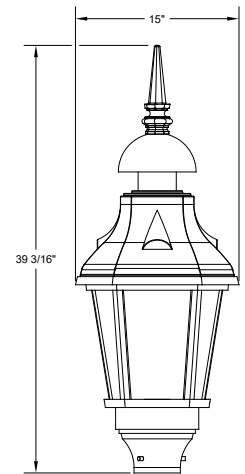
Housing is finished with a 13 step KingCoat™ SuperDurable polyester TGIC powder coat. Standard colors include strobe white, brown metal, marina blue, gate gray, Chicago bronze, standard gold, standard black, federal green and rain forest. Please see our website for a complete list of colors. RAL and 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 K59 Clarkstown LED luminaire 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  
-35°C Min. Case Temperature  
70°C Max. Case Temperature  
Surge Protection: ANSI C136.2  
extreme level 20kV/10kA

### EPA:

2.32 sq. ft.

### FIXTURE WEIGHT:

35 lbs





**Test Voltage:** 120V  
**Nominal Color Temperature:** 3000K & 4000K<sup>1</sup>  
**7030 Engine Series:** 30 Emitters (40 - 75W Max)  
**LED Engine + Driver Rated Life =** 100,000 hrs<sup>2</sup>

To learn more about the P4 Optic, please see the P4 Optic Information Sheet

Photometric Test Report Number	Lens Option	Color Temperature	IES Distribution	Nominal Watts	Engine Series	Delivered Lumens <sup>3</sup>	Efficacy (LM/W) <sup>3</sup>	mA @ emitter	Driver Output Current	BUG Rating	HID Equivalent <sup>4</sup>
In Testing	N/A	3000K	Type III	40	7030	N/A	N/A	400	2000	N/A	50 - 70
0059TP4AC3X04040XXD	Acrylic Clear	4000K	Type III	40	7030	3820	96.0	400	2000	-	50 - 70
In Testing	N/A	3000K	Type III	60	7030	N/A	N/A	600	3000	N/A	70 - 100
0059TP4AC3X06040XXD	Acrylic Clear	4000K	Type III	60	7030	5444	91.5	600	3000	-	70 - 100
In Testing	N/A	3000K	Type III	75	7030	N/A	N/A	800	4000	N/A	100 - 150
In Testing	N/A	4000K	Type III	75	7030	N/A	N/A	800	4000	N/A	100 - 150

P4 = 4th Generation Flat Array

<sup>1</sup>Color temperature is nominal, please see test report for specific chromaticity information

<sup>2</sup>Contact factory for TM21 information/Driver specification

<sup>3</sup>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

<sup>4</sup>Equivalence should always be confirmed by performing a photometric layout, due to the variability of performance requirements and application criteria

## HOW TO ORDER

