



K442 GLASS ACORN - LED

The K442 Glass Acorn offers a sophisticated version of the traditional globe with efficient optical performance, careful engineering and incredibly easy maintenance characteristics, without compromising the historical authenticity of the product's appearance.



PROJECT: _____

PREPARED BY: _____

DATE: _____

PRODUCT SPECIFICATIONS

LED ENGINE

The light engine shall be an array of 4 or 6 Cree COB chip on board (COB) diodes mounted to a highly conductive aluminum extrusion with the use of 2 electrical connectors. The aluminum extrusion will 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 will be an aluminum upright reflector for both Type IV & Type V IESNA distribution patterns.

REFRACTIVE GLASS GLOBE

The glass globe shall be made of 9018 clear borosilicate glass having a minimum thickness of 0.3" with an overall diameter of 13.5" and an over-all height of 19.25". It will be designed for optimum optical efficiency and light control.

The glass globe is equipped with an aluminum globe ring. The glass globe is secured to the capital with stainless steel set-screws.

LUMINAIRE CONSTRUCTION

All K442 Glass Acorn cast components shall consist of a heavy grade A319 cast aluminum. The main body, or capital, acts as an enclosure for the driver assembly and 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.

DRIVER

CSA certified and/or UL listed, electronic programmable, Constant Light Output (CLO) driver with a 0-10V dimming lead. Driver shall supply correct DC voltage and current to maintain proper operation of the emitters. The driver shall be UL1310/UL48 Class 1 certified, and contain over-circuit, over-voltage, and over-

power protection. 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 multi-volt driver shall be capable to connect to AC input voltages of 120V, 240V and 277V. Limited wattage options are available for 347-480V. The driver shall have a case temperature range of -40°C to 60°C and the driver casing shall have a minimum ingress protection rating of IP67.

PHOTOMETRICS

Fixtures are tested to IESNA LM79 specifications. These reports is available upon request.

CHROMATICITY

High output COB 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 150,000 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 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

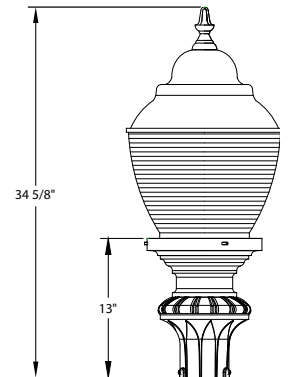
Housing is finished with a 13 step KingCoat™ SuperDurable polyester TGIC powder coat. Standard colors include strobe white, brown metal, marina blue, gate gray, Chicago bronze, standard gold, standard black, federal green and rain forest. Please see our website for a complete list of colors. Additional RAL or 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 K442 Glass Acorn fixture 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
120V - 277V or 347 - 480V
-40°C Min. Case Temperature
60°C Max. Case Temperature
Surge Protection: ANSI 136.2
extreme level 20kV/10kA

EPA:

1.03 sq. ft.

FIXTURE WEIGHT:

42 lbs





Test Voltage: 120V
 Nominal Color Temperature: 3000K & 4000K¹
 4004 Engine Series: 4 COB Emitters (Type IV)
 4006 Engine Series: 6 COB Emitters (Type V)
 LED Engine + Driver Rated Life = 100,000 hrs²

To learn more about the T1 Optic, please see the T1 Optic Information Sheet

Photometric Test Report Number	Decorative Option	Color Temperature	IES Distribution	Nominal Watts	Engine Series	Delivered Lumens ³	Efficacy (LM/W) ³	mA @ Emitter	Driver Output Current	BUG Rating	HID Equivalent ⁴
In Testing	N/A	3000K	Type IV	40	4004	N/A	N/A	N/A	N/A	N/A	50 - 70
In Testing	N/A	4000K	Type IV	40	4004	N/A	N/A	N/A	N/A	N/A	50 - 70
0442TTIGR4X06030XXP	N/A	3000K	Type IV	60	4004	7230	118.9	400	400	1-4-5	70 - 100
0442TTIGR4X06040XXQ	N/A	4000K	Type IV	60	4004	8475	139.6	400	400	1-5-5	70 - 100
0442TTIGR4X07530XXP	N/A	3000K	Type IV	75	4004	8445	112.3	500	500	2-5-5	100 - 150
0442TTIGR4X07540XXQ	N/A	4000K	Type IV	75	4004	10223	135.6	500	500	2-5-5	100 - 150
0442TTIGR4X10030XXP	N/A	3000K	Type IV	100	4004	9336	100.1	620	620	2-5-5	150 - 250
0442TTIGR4X10040XXQ	N/A	4000K	Type IV	100	4004	12095	128.7	620	620	2-5-5	150 - 250

¹Color temperature is nominal, please see test report for specific chromaticity information

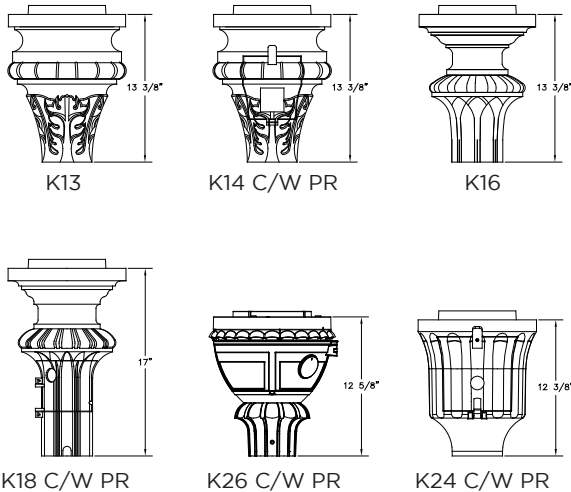
²Contact factory for TM21 information

³Due to the continuous advancements in LED technology, luminaire delivered lumen and efficacy is subject to change without notice at the discretion of King Luminaire

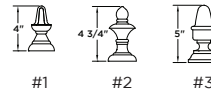
⁴Equivalence should always be confirmed by performing a photometric layout, due to the variability of performance requirements and application criteria

FIXTURE OPTIONS

Capital Options



Finial Options



HOW TO ORDER

