



K366 HARBOR SIDE - LED



Designed to add style and function to marinas, pathways, and waterfronts, the K366 Harbor Side, offers rugged aesthetics and a high quality, well-engineered luminaire. Available in both post top and pendant formats to coordinate pathways and roadways alike.

PROJECT: _____

PREPARED BY: _____

DATE: _____

PRODUCT SPECIFICATIONS

T1 LED ENGINE

The light engine shall be an array of 4 or 6 Cree 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 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 uplight reflector in both Type III & Type V IESNA distribution patterns.

P4 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 K366 Harbor Side has an acrylic lens with a minimum body thickness of 0.25". The lens is secured by means of a cast A319 aluminum holding ring. The lens is sealed by means of a continuous neoprene gasket applied to the lens frame to provide an IP66 ingress protection rating.

DECORATIVE BODY

The luminaire shall consist of a heavy Grade A319 cast aluminum housing that acts as the enclosure for the engine and is of adequate thickness to give structural rigidity. The engine must be affixed to the inside of the housing with stainless steel screws.

T1 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 I 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.

P4 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 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 will be mounted on a heavy duty fabricated galvanized steel 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 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

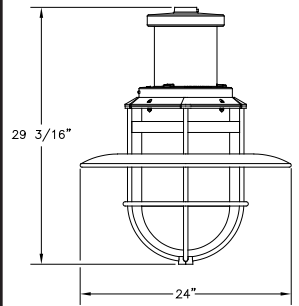
Housing is finished with a 13 step KingCoat™ SuperDurable polyester TGIC powder coat. Standard colors include strobe white, brown metal, marina blue, gate gray, Chicago bronze, standard gold, standard black, federal green and rain forest. Please see our website for a complete list of colors. Additional 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 K366 Harbor Side 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
120V - 277V or 347 - 480V
-40°C Min. Case Temperature
60°C Max. Case Temp. (T1)
70°C Max. Case Temp. (P4)
Surge Protection: ANSI 136.2
extreme level 20kV/10kA

EPA:

TBD sq. ft.

FIXTURE WEIGHT:

TBD lbs





Test Voltage: 120V
Nominal Color Temperature: 3000 & 4000K¹
4004 Engine Series: 4 COB Emitters (Type III)
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
0366TT1AC3X04030XXP	N/A	3000	Type III	40	4004	2941	73.3	265	265	-	50-70
In Testing	N/A	4000	Type III	40	4004	N/A	N/A	265	265	N/A	50-70
In Testing	N/A	3000	Type V	40	4006	N/A	N/A	265	265	N/A	50-70
In Testing	N/A	4000	Type V	40	4006	N/A	N/A	265	265	N/A	50-70
In Testing	N/A	3000	Type III	60	4004	N/A	N/A	400	400	N/A	70-100
In Testing	N/A	4000	Type III	60	4004	N/A	N/A	400	400	N/A	70-100
In Testing	N/A	3000	Type V	60	4006	N/A	N/A	275	550	N/A	70-100
In Testing	N/A	4000	Type V	60	4006	N/A	N/A	275	550	N/A	70-100
In Testing	N/A	3000	Type III	75	4004	N/A	N/A	500	500	N/A	100-150
0366TT1AC3X07540XXN	N/A	4000	Type III	75	4004	4858	61.9	500	500	-	100-150
In Testing	N/A	3000	Type V	75	4006	N/A	N/A	340	680	N/A	100-150
In Testing	N/A	4000	Type V	75	4006	N/A	N/A	340	680	N/A	100-150
0366TT1AC3X10030XXP	N/A	3000	Type III	100	4004	6242	65.4	620	620	2-5-4	150-250
0366TT1AC3X10040XXN	N/A	4000	Type III	100	4004	5358	55.0	620	620	N/A	150-250
In Testing	N/A	3000	Type V	100	4006	N/A	N/A	430	860	N/A	150-250
0366TT1AC5X10040XXN	N/A	4000	Type V	100	4006	5888	61.2	430	860	2-5-3	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



Test Voltage: 120V
Nominal Color Temperature: 3000K & 4000K¹
7030 Engine Series: 30 Emitters (40 - 75W Max)
LED Engine + Driver Rated Life = 100,000 hrs²

To learn more about the P4 Optic, please see the P4 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	3000	Type II	40	7030	N/A	N/A	400	2000	N/A	50-70
In Testing	N/A	4000	Type II	40	7030	N/A	N/A	400	2000	N/A	50-70
In Testing	N/A	3000	Type II	60	7030	N/A	N/A	600	3000	N/A	70-100
In Testing	N/A	4000	Type II	60	7030	N/A	N/A	600	3000	N/A	70-100
0366PP4AC2X07530XXJ	N/A	3000	Type II	75	7030	8326	108	800	4000	2-3-2	100-150
In Testing	N/A	4000	Type II	75	7030	N/A	N/A	800	4000	N/A	100-150

P4 = 4th Generation Flat Array

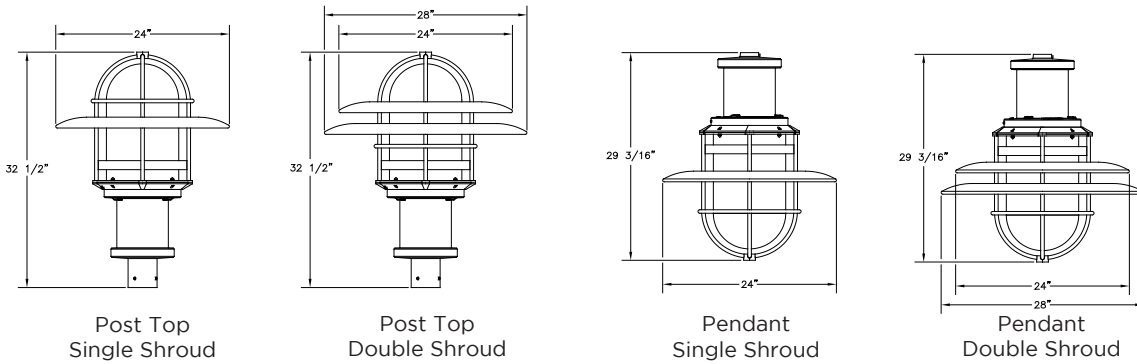
¹Color temperature is nominal, please see test report for specific chromaticity information

²Contact factory for TM21 information

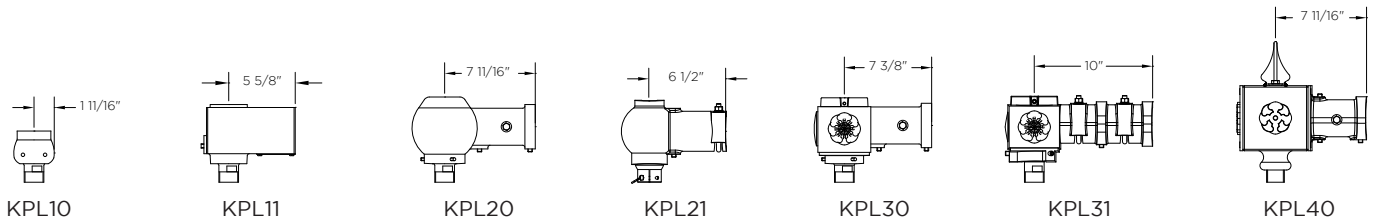
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Fixture Formats



PLUMBIZER/MOUNTING OPTIONS



HOW TO ORDER

