

Description and Applications

The EP4 Series multi-purpose light is rated for use in environments that require the following:

- Class I, Division I: Groups C, D
- Class II, Division II: Groups E, F, G
- Class III

The fixture is designed for applications requiring metallic fixtures. Excellent for marine wet and damp locations. Typical applications include solvent and cleaning areas, petrochemical facilities, marine facilities, waste treatment plants and food processing applications.

Housing is cast aluminum with adjustable mounting brackets allowing the fixture to be rotated up or down approximately 45-degrees from center. The driver and LED board are a combination of Keystone's adjustable milliamp (mA) output driver and high performance LEDs. The two allow for an output range of 1,000 lumens to 10,000 lumens. Range chart found on next page.

Electrical

Long-life LED system coupled with electronic driver delivers optimal performance. LED's available in 80+ CRI, 5000K to 3000K. Projected L70 rated life is >100,000 hours. Standard electronic drivers are 120-277VAC. 480-volt driver is available as an option.

Listing/Certifications

NEMA 4X IP66
UL1598 / UL1598A / UL844
CSA C22.2 No.137 / No.250.0
UL1598A Marine and Wet Locations

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



Specifications

Construction: Marine grade cast aluminum housing with adjustable mounting brackets

Driver: Keystone constant current programmable driver (KTLD-70-UV-SC2800-56-VDIM-W2)

LED Board: Keystone "KTAG" Linear LED aluminum extrusion modules in tempered glass tubes

CRI: 80+

CCT: 3000K/3500K/4000K/5000K

Power Source: 120-277V, 50/60Hz; 347-480V, 50/60Hz optional

Mounting: Ceiling, wall, chain

Wiring: 3/4-inch NPT opening

Ambient Operating Temperature: -40°F to +120°F

Impact: High impact resistance

Maintenance: Replaceable LED board and drivers

Components: Integrated compartment for driver

Optional Configurations: Dimming, emergency battery

Additional Ratings: IP66 and IK10

Warranty: 5 years

Manufacturer Location: USA



Explosion Proof Tunable Linear LED EP4 Series

LED BOARD & DRIVER PERFORMANCE SPECIFICATIONS

Keystone “KTLD” driver adjusts mA output for tuning to the desired lumen output. Use chart below, starting with:

- **Identify desired light color measured in degrees of Kelvin (K)**
 - EXAMPLE: 5000K (FURTHEST RIGHT COLUMN)
- **Then follow down the “Flux” (*luminous flux***) column, always under the “WITH LENS”, until desired lumen output is identified**
 - EXAMPLE: 8925 (THIRD ROW DOWN)
- **Follow the row all the way to the far left column “Drive Current mA” and note the mA output number for desired color temperature and lumen output**
 - EXAMPLE: 1240 (FOLLOWED FROM 8925 TO FAR LEFT COLUMN)

Drive Current mA	Volts	Watts	3000K				3500K				4000K				5000K			
			WITHOUT LENS		WITH LENS		WITHOUT LENS		WITH LENS		WITHOUT LENS		WITH LENS		WITHOUT LENS		WITH LENS	
			Flux	Efficacy lm/W	Flux	Efficacy lm/W	Flux	Efficacy lm/W	Flux	Efficacy lm/W	Flux	Efficacy	Flux	Efficacy lm/W	Flux	Efficacy	Flux	Efficacy lm/W
1400	46	64.40	10244	162	9456	143	10788	170	9773	149	11007	174	10057	153	11004	173	10109	153
1320	46	60.72	9615	163	8899	144	10160	171	9241	150	10341	175	9438	154	10351	174	9483	153
1240	46	57.04	9050	164	8381	146	9559	173	8709	152	9723	176	8870	155	9729	175	8925	155
1160	46	53.36	8488	166	7860	147	8969	174	8186	154	9112	178	8323	157	9120	176	8358	156
1080	46	49.68	7931	167	7340	149	8373	176	7653	155	8511	179	7772	158	8510	178	7799	158
1000	46	46.00	7369	169	6818	151	7783	178	7107	157	7909	181	7214	160	7901	180	7246	159
920	46	42.32	6812	171	6302	153	7187	180	6569	159	7298	183	6665	162	7298	182	6690	161
840	46	38.64	6251	173	5772	154	6597	182	6028	161	6696	185	6094	163	6691	183	6121	163
760	46	34.96	5685	175	5232	156	6003	184	5480	163	6086	187	5543	166	6080	185	5560	165
680	46	31.28	5111	177	4702	158	5400	187	4931	165	5474	189	4986	168	5463	187	5000	167
600	46	27.60	4534	179	4166	160	4789	189	4372	167	4851	192	4423	170	4841	190	4439	169
520	46	23.92	3948	181	3628	162	4177	191	3801	169	4224	194	3851	172	4218	192	3865	171
440	46	20.24	3357	184	3075	164	3551	194	3233	172	3592	196	3264	174	3584	194	3278	173
360	46	16.56	2759	186	2526	166	2918	196	2658	174	2949	199	2683	176	2945	197	2693	175
280	46	12.88	2153	188	1970	168	2280	199	2070	176	2301	201	2096	179	2295	199	2104	178
200	46	9.20	1539	190	1405	170	1630	201	1482	179	1647	203	1495	181	1643	201	1502	180

* Nominal Values Shown. Actual Values May Vary Based on Tolerances and Ambient Temperature.

**Luminous flux is the measure of the perceived power of light. It is often used as an objective measure of the useful light emitted by a light source, and is typically reported on the packaging for light bulbs

The luminous flux accounts for the sensitivity of the eye by weighting the power at each wavelength with the luminosity function, which represents the eye’s response to different wavelengths. The luminous flux is a weighted sum of the power at all wavelengths in the visible band. Light outside the visible band does not contribute. The ratio of the total luminous flux to the radiant flux is called the luminous efficacy. This model of the human visual brightness perception, is standardized by the CIE and ISO.

DIMENSIONS

EP4-4-2 (4ft. long)

length

52-inches

width

11.25-inches

height to top of hanging bracket

8.5-inches

height to top of driver compartment

7.3-inches

weight

65 lbs

EP4-2-2 (2ft. long)

length

27.5 - inches

width

11.25-inches

height to top of hanging bracket

8.5-inches

height to top of driver compartment

7.3-inches

weight

55 lbs

MODEL CODE OPTIONS

EP4					
↓	↓	↓	↓	↓	↓
<u>Series</u>	<u>Length</u>	<u>mA</u>	<u>Mounting</u>	<u>Options</u>	<u>Voltage</u>
EP4	2 (feet)	200-1400	S (surface)	EM (Emergency Battery)*	UNV (120-277VAC)
	4 (feet)		C (chain)*	D (Dimming)*	480 (347-480VAC)*

EXAMPLE:

EP4-4-1400-S-EM-UNV

*May come with an additional charge for specific equipment option. Please contact Truex Lighting or authorized manufacturer’s sales representative for further pricing information.