Project:



FL SMALL











FEATURES

MODULAR GENERAL-PURPOSE LED FLOOD & AREA LIGHTING LUMINAIRE.

The FL series LED luminaire provides a energy efficient, high performance solution to many low light level applications across your sporting complex. The FL was designed to provide a common family of products that can be used for sporting field, parking lots, accent lighting and security lighting throughout your complex to simplify design. Available in wattages from 80-320W and in both area lighting and flood lighting distributions.

- » Standard 0-10V dimming
- » Standard 10kv, 10ka surge protection
- » Modular design for ease of service
- Various mounting options including slip fit, trunion mount, pole mount and ceiling mount
- » 125+ Lumens per watt
- » 3G vibration rated



ORDERING GUIDE							EX: FL-B-40-C-T2M-40-70-BK-00-BS										
PRODUCT	ı	INPUT VOLTAGE	WAT	TAGE	М	OUNTING	OPTI	С	cc	т	CRI		ноц	JSING COLOR	LIGH	TING CONTROLS	ACCESSORY
FL												70					
FL FL SERIES	s I		40	40	С	TRUNION	T2M	TYPE II MEDIUM	40		70	70	вк	BLACK	00	NONE	BS BIRD SPIKES
	(C 347V - 480V	80 120	80 120	D L	SURFACE SLIP FIT	TSX1 T3M	TYPE V MEDIUM TYPE III MEDIUM	50	5000K			GR BZ	GREY BRONZE		3 PIN RECEPTACLE 5 PIN RECEPTACLE	BL BACK LIGHT SHIELD 2S 20KV/10KA SPD
			160 200	160 200	Т	POLE	T4M T5U	TYPE IV MEDIUM 10 DEGREE					WH	WHITE	01/7 02	7 PIN RECEPTACLE MOTION SENSOR	SC SAFETY CABLE
			240	240			T5V	25 DEGREE							05	0-10V DIMMING	
			280 320	280 320			T5W T5S	40 DEGREE 60 DEGREE									

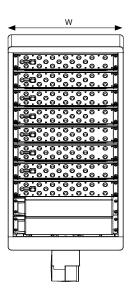
T5M 90 DEGREE

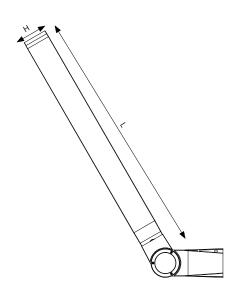
SPECIFICATIONS AND DETAILS ARE SUBJECT TO CHANGE WITHOUT NOTIFICATION. CONTACT CHM LIGHTING FOR UP TO DATE DETAILS. CHM LIGHTING IS A DIVISION OF CHM INDUSTRIES, INC.



DIMENSIONS







DIMENSIONS									
WATTAGE	W (IN.)	L (IN.)	H (IN.)						
40	12.99	5.91	4.41						
80	12.99	8.27	4.41						
120	12.99	10.63	4.41						
160	12.99	12.99	4.41						
200	12.99	17.72	4.41						
240	12.99	20.08	4.41						
280	12.99	22.4	4.41						
320	12.99	24.8	4.41						

SPECIFICATIONS

GENERAL DESCRIPTION

The FL series is a high efficiency, compact and economical LED flood and area lighting luminaire. The complete luminaire is UL Listed to UL1598 with a maximum ambient operating temperature of 50C. The driver and LED housings are fabricated of heavy duty high cast aluminum. The complete luminaire assembly is IP66 rated, 3G vibration tested and is manufactured to an ISO 9001:2000 certified production facility.

HOUSING

The housing is constructed of heavy duty die cast aluminum with a corrosion resistance polyester powder coat with a minimum salt spray rating of 1000 hours per ASTM B117 / ISO 9227-:2012. The entire luminaire has been tested to meet the requirements of an ANSI C136.31-2010,3G.

ELECTRICAL SYSTEM

The drivers accepted the specified line voltage, to with +/- 10% without the aid of an integral step down transformer. The drivers include integral transient surge protection in accordance with IEEE C62.41 6kV/6kV. The LED drivers have a minimum power factor of 0.90 with a Total Harmonic Distortion no greater than 20%. Drivers come standard with 0-10V dimming leads. The system includes a secondary surge protection system with supplementary coverage in accordance with IEEE C62.41.C High (10kA and 10kV Standard, 20vK is optional). The drivers include standard 1-10V dimming input and can dim to 10% output.

OPTIC ASSEMBLY

Each LED module is sealed by a dedicated polycarbonate optical panel that provides IP66 protection to the PCB. Each PCB utilized on board TVS (Transient Voltage Suppressors) for added protection of the LEDS. The LEDS generate the specified color temperature with a tolerance of no more than +/- 6.6% to ensure consistent color across the project. All CRI offerings are stated as a minimum, typical CRI will be higher or equal to the published minimum.

WARRANTY

The entire product shall be covered by a minimum five (5) year limited fixture warranty. Longer term warranties are available, contact CHM for additional details.

SUPPLEMENTARY

OUTPUT TABLE							
WATTAGE	CRI	APPROXIMATE LUMENS					
40	70	5000					
80	70	10000					
120	70	15000					
160	70	20000					
200	70	25000					
240	70	30000					
280	70	35000					
320	70	40000					

LOADING INFORMATION									
WATTAGE	EPA @ 0 DEGREES (SQ.FT)	EPA @ 90 DEGREES (SQ.FT)	WEIGHT (LBS)						
40	0.5	0.64	11.3						
80	0.5	0.9	13.8						
120	0.5	1.15	15.9						
160	0.5	1.41	18.2						
200	0.65	1.92	21.5						
240	0.73	2.17	24.4						
280	0.85	2.43	27.5						
320	0.91	2.68	30						



CANDELA PLOTS



