

# SPORTS LIGHT (MSL01)



## DESCRIPTION

By providing superior high output and high efficiency, MESTER sports light series is the ideal solution for outdoor sports lighting such as municipal, school and semi-professional outdoor sports lighting. Dynamic thermal management design maximizes heat dissipation and significantly improves the life of luminaires. Built-in surge suppression adds an extra layer of protection to the luminaire driver. Versatile mounting bracket for hassle-free installation.



## SPECIFICATION FEATURES

### Construction

- Sealed die-casting profile for outdoor applications
- Low profile, 3G vibration rated compact design minimizes wind load requirements.
- Housing is completely sealed against moisture and environmental contaminants (IP65).

### Optics

- Available in NEMA 3Hx3V, 4Hx4V distributions.
- Light engines are available in standard 4000 K, 5000K and 5700 K (70/80/90 CRI) configurations.
- Scalable Lumen Packages from 68,160 to 118,000 Lumens.
- Optics is precisely designed to shape the distribution, maximizing efficiency and application spacing.

### Electrical

- Universal 120-277 VAC or 277-480 VAC input voltage
- Standard with 0-10V dimming driver(s)
- Built in surge suppression with max.20KV @120-277V(Max.40KV @277-480V).
- THD: ≤20%
- Power Factor: ≥90%

### Ambient Temperature

- Ambient operating temperature -40 C to 55 C (-40 F to 131 F).

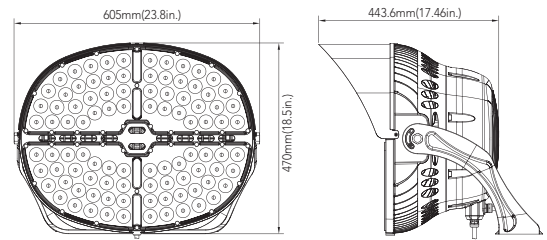
### Lifespan

- Estimated 100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

### Note

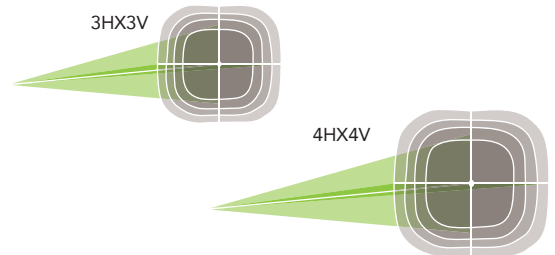
- Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 C (±5 C ) specifications subject to change without notice.

### DIMENSIONS



Net Weight:	500W: 56.30 lb	600W: 56.30 lb	650W: 63.47 lb	850W: 63.47 lb
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### PHOTOMETRICS



## PERFORMANCE DATA

SYSTEM WATTS	VOLTAGE	NEMA	EPA	CRI	LUMENS (4000K)	LPW (4000K)	LUMENS (5000K)	LPW (5000K)	LUMENS (5700K)	LPW (5700K)
500W	120-277V/347-480V	4Hx4V	1.2413	70	71000lm	142 lm/W	71000lm	142 lm/W	69000lm	138 lm/W
		3Hx3V	1.2413	70	68160lm	136 lm/W	68160lm	136 lm/W	66240lm	132 lm/W
600W	120-277V/347-480V	4Hx4V	1.2413	70	84000lm	140 lm/W	84000lm	140 lm/W	82000lm	137 lm/W
		3Hx3V	1.2413	70	80640lm	134 lm/W	80640lm	134 lm/W	78720lm	131 lm/W
650W	277-480V	4Hx4V	1.2413	70	91000lm	140 lm/W	91000lm	140 lm/W	88000lm	135 lm/W
		3Hx3V	1.2413	70	87360lm	134 lm/W	87360lm	134 lm/W	84480lm	130 lm/W
850W	277-480V	4Hx4V	1.2413	70	118000lm	139 lm/W	118000lm	139 lm/W	112000lm	132 lm/W
		3Hx3V	1.2413	70	113280lm	133 lm/W	113280lm	133 lm/W	107520lm	126 lm/W

## ELECTRICAL DATA

Number Of Drivers	Driver Current (mA)	Nominal Power (W)	INPUT VOLTAGE (V)	CURRENT (Amps)
1	4800	500	120	4.17
		500	208	2.40
		500	240	2.08
		500	277	1.81
		500	347	1.44
		500	480	1.04
1	4650	600	120	5.00
		600	208	2.88
		600	240	2.50
		600	277	2.17
		600	347	1.73
		600	480	1.25
1	5200	650	277	2.35
		650	347	1.87
		650	480	1.35
1	5200	850	277	3.07
		850	347	2.45
		850	480	1.77