



VISION-SMART PERFORMANCE M-SERIES SPORTS / INDUSTRIAL HIGH-MAST LIGHTING

Project Name: _____
Prepared by : _____
Date: _____

Mledtech™ products deliver light that improves human performance. Vision-Smart Performance M-Series is an Olympic quality, HDTV compatible light for any world class indoor / outdoor venue. The M-Series is an ideal solution for professional sports lighting, but affordable enough for recreational, high school, college and semi-professional sports venues as well. M-Series is designed to replace 1,000 - 2,000 watt HID lights at heights from 40' to 150', and is equally suitable at airports, seaports and other industrial facilities. These luminaires deliver maintenance-free lighting with the industry's greatest visual comfort and the highest output at the target.

TECHNICAL ADVANTAGES

COB Light Engine Technology

Our COB light engine creates the least glare, ghosting, and shadowing in the industry. The light produced by COB is more akin to a traditional HID luminaire. SMD LED driven lights produce hundreds of laser beams, each creating glare and shadows on the object making it more fatiguing and difficult for athletes and workers to identify the true location of a moving object.



Proprietary Glass Lens

Unlike polycarbonate lenses used widely by competitors, our proprietary glass Fresnel lens is designed to reduce glare, achieves 96% light transmission, and will not yellow over time. This results in light transmission that will not change over the lifetime of the fixture.



Proprietary Reflector

The COB chip is recessed deep into the polished aluminum reflector ensuring that minimal spillage occurs outside of the intended target. In contrast, the typical PC lens over the hundreds of SMD chips does not create a physical barrier to control light spillage. This difference contributes to the excess glare of SMD and PC lens technology.



Construction

The rugged die cast aluminum tested to IK08, tempered proprietary glass, IP66 ingress protection, powder coat finish, stainless fasteners and silicone gasketing ensures performance in harsh and corrosive environments.








HDTV Broadcast Compatible

Our driver flicker rate is less than 2% making M-Series ready for HDTV broadcasting. Minimization of shadowing and ghosting from our COB light engine is crucial with high FPS video and slow motion replay.

PRODUCT DATA



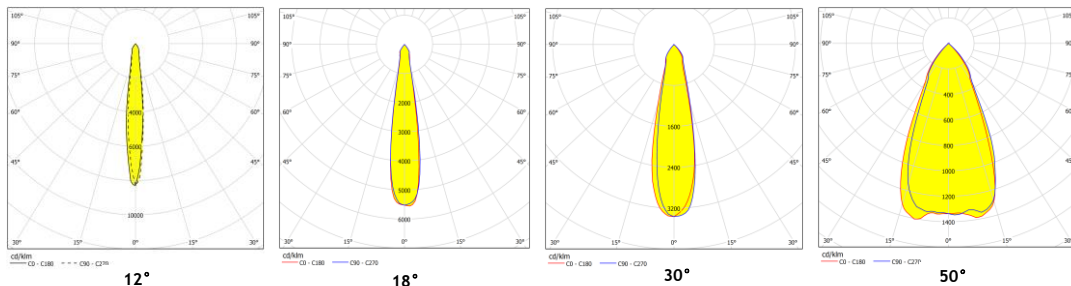
High Mast - 40 to 150 FT Above Grade			FL6M-420W	FL9M-630W
    	Wattage	Watts	420	630
	Replaces HID Wattage	Watts	1,000	1,500
	Light Output	Lumens	54,600	81,900
	Fixture Efficacy	Lm / Watt	130	130
	EPA	ft ²	1.58 SF	2.37 SF
	L" X W" X D"	Inches	21.8" X 14.5" (D Varies Per Mount- See Drawings)	
	Fixture Weight	lbs.	41	51
	Driver Weight	lbs.	7	9
	Color Rendering Index	Ra	70 (Standard)	
	LED Brand	Brand	Bridgelux or Equal	
	LED Driver	Brand	Inventronics or Equal	
	Input Voltage	VAC	110VAC - 277VAC 249VAC - 528VAC	
	Input Frequency	HZ	50HZ 60HZ	
	Operating Temperature	F	-40° F to 122° F	
	IP Rating	IP	IP66	
Power Factor	PF	0.96		
Lifespan	Hrs	>100,000 Hrs at L90		
Warranty	Years	10 Years		
Certification		UL DLC TUV ROHS CE		
DLC Categorization:		Outdoor Luminaires Very High Output Architectural Flood and Spot Luminaires		
Fixture Color		Black Gray (RAL 7035)		
Surge Protection	KVA	6KVA (Standard) Integrated in Driver 10KVA (Optional)		
Controls		0-10 VDC Dimming DMX Control		

ORDERING INFORMATION

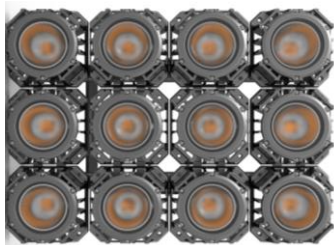
	Model	CCT	Input Voltage	Beam Angle	Surge Protection	Fixture Color	Controls	Mounting	Driver Location
	FL6M-420W	40K = 4000K	S = 110 to 277VAC	12°	6KV = Standard	G = Gray	0 = None	T = Top Mount	FM = Fixture Mount
	FL9M-630W	45K = 4500K	H = 249 to 528VAC	18°	10KV = Optional	B = Black	1 = 0-10 VDC	H = Hanging Mount	RM = Remote Mount
	FL12M-840W	50K = 5000K		30°		C = Custom	2 = DMX		
		57K = 5700K		50°					
Quantity	Example Order Code - FL9M-630W-57K-H-18-10KV-G-0-H-FM								

BEAM ANGLES

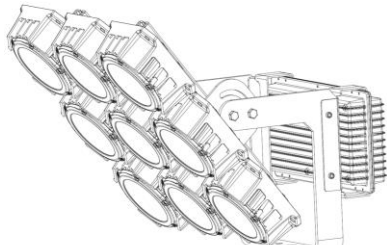
An Industry First - Multiple Beam Angles in a Single Fixture The M-Series' modular design allows each fixture to be manufactured with more than one beam angle. This is a unique advantage to the M-Series. A single fixture can illuminate far, wide and close which requires fewer fixtures to create higher uniformity.



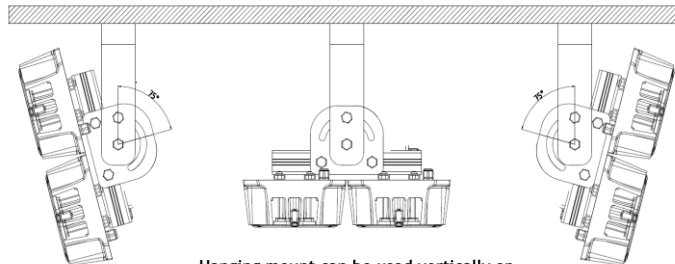
FL12M-840W AND MOUNTING OPTIONS



FL12M-840W - 100,800 lumens
(Use 2 x FL6M-420W for DLC)



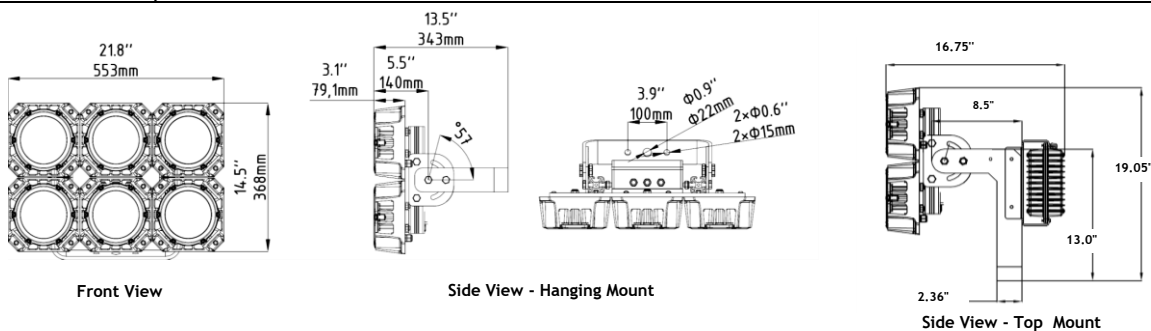
Pivot point and driver mounting is adjustable to fit a variety of mounting requirements



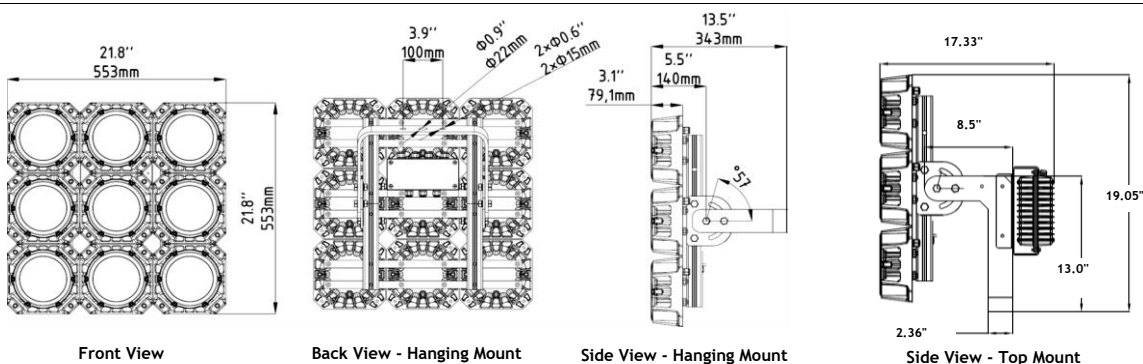
Hanging mount can be used vertically or horizontally and can be customized as needed.

DIMENSIONS (NOT TO SCALE)

FL6M-420W



FL9M-630W



NOTES

1. The specifications listed were obtained under optimal testing conditions. Changes in conditions may result in slightly different performance.
2. Driver can provide full range dimming capability across a wide array of 0-10V dimming systems. We cannot guarantee compatibility with all dimming control systems from all manufacturers without actual testing.
3. Weight may vary depending on mounting bracket selection.

