



HM SERIES

SQUARE SPORT LIGHT

INTRODUCTION

The FGE-HM Series Square Sport Light is designed for stadiums, airports, ports, and large outdoor areas that demand high-output, reliable, and uniform illumination. Featuring premium LED chips and precision optical lenses, it achieves up to 150 lm/W, delivering bright, glare-controlled lighting suitable for professional sports and large-scale outdoor lighting applications.

Its heavy-duty die-cast aluminum housing ensures outstanding heat dissipation, corrosion resistance, and long-term stability, with IP66 & IK09 protection ratings for dependable operation under harsh weather and environmental conditions. The modular design allows for easy maintenance and flexible wattage combinations to meet different project requirements.

Optional DALI / 0-10V dimming, anti-glare visors, and various mounting options (bracket, pole, or wall), the HM Series provides excellent adaptability for sports venues and architectural floodlighting. With a 100,000-hour lifetime and 5/7/10-year warranty, it delivers a powerful, energy-efficient, and durable lighting solution for modern large-area illumination.



FEATURES



150lm/W

High Efficacy & Energy Saving: Up to 150 lm/W, reducing energy consumption by over 60% compared with HID fixtures.



0-10V
DIMMABLE

Smart Control Ready: Compatible with 0-10V/DALI dimming, optional microwave/infrared sensor, and emergency kit.



10KV

10KV Surge Protection: Enhanced surge protection ensures long-term reliability and safety.



Various Optical Lens Options: Flexible lens options optimize lighting for diverse environments.



QUICK & EASY

Easy Installation and Maintenance:

Reduce installation time and maintenance labor, effectively lowering overall operational costs.



Laser Aiming Device Options: Ensures quick and accurate light alignment during installation.



RELIABLE
WARRANTY

Reliable Warranty: 5/7/10 Years Warranty Options.

- Advanced Optical Design:

High-transmittance PC lens with 15°/20°/30°/40°/60°/120° beam options, ensuring uniform illumination and glare reduction.

- Robust Protection:

IP66 waterproof & dustproof, IK09 impact resistance for harsh industrial environments.

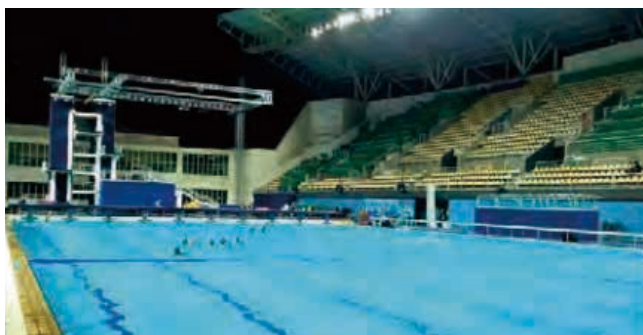
- Superior Thermal Management:

Die-cast aluminum housing with optimized heat sink for reliable performance.

- Wide Input Voltage:

AC120-277V, suitable for global power grids.

APPLICATIONS



Stadium: Provide superior visibility and uniform light distribution ensure consistent brightness across the entire field, eliminating glare and shadow areas that affect athlete performance and referee judgment.

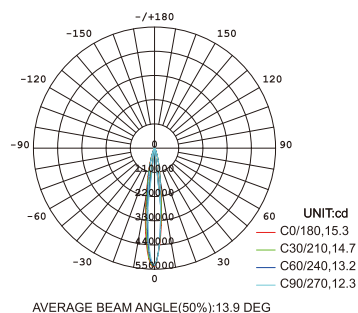


Parking Lot: Expertly suited for high mast lighting systems, offer superior luminous efficacy and an optimized wide beam angle , effectively ensuring uniform light coverage across expansive parking lot spaces, eliminating dark spots and enhancing overall visibility.

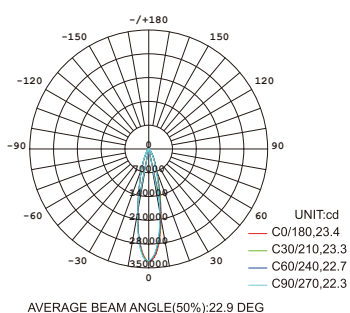
TECHNICAL PARAMETERS

Product Model	HM-400W/500W/650W	HM-720W/800W/900W/1000W/1200W/1300W
Electrical Performance		
Wattage	400W/500W/650W	720W/800W/900W/1000W/1200W/1300W
Input Voltage	AC120-277V	AC120-277V
Frequency	50/60Hz	50/60Hz
Power Factor (PF)	0.95	0.95
Surge Protection	10KV (Standard) / 20KV (Optional)	10KV (Standard) / 20KV (Optional)
THD	<15%	<15%
Optical Performance		
Luminous Efficacy	150lm/W	150lm/W
Luminous Flux	67500lm/75000lm/97500lm	108000lm/120000lm/135000lm/150000lm/180000lm/195000lm
CCT	5000K	5000K
CRI	Ra>70	Ra>70
Beam Angle	15°/20°/30°/40°/60°/120°	15°/20°/30°/40°/60°/120°
Unified Glare Rating (UGR)	<28	<28
Reliability		
Lifetime	>100,000h, L70 @25°C	>100,000h, L70 @25°C
Operating Temperature	-40 ~ +50°C	-40 ~ +50°C
Storage Temperature	-40 ~ +70°C	-40 ~ +70°C
Ingress Protection	IP66	IP66
Impact Resistance	IK09	IK09
Control		
Dimming	0-10V Dimming	0-10V Dimming
Sensor	-	-
Communication Protocol	-	-
Emergency Kit	-	-
Mechanical		
Housing Material	Die-cast Aluminum	Die-cast Aluminum
Lens Material	Anti-UV PC Optical Material	Anti-UV PC Optical Material
Coating	Gray	Gray
Net Weight	18.3kg	31.5kg
Dimensions	610x549x321mm	632x817x682mm
Warranty	5/7/10 Years	5/7/10 Years

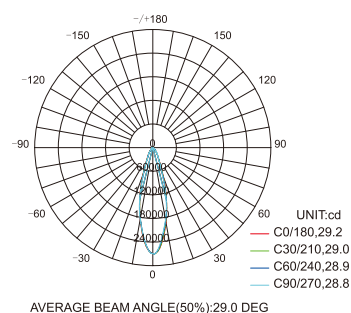
PHOTOMETRICS



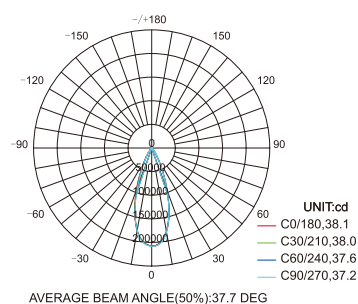
15°



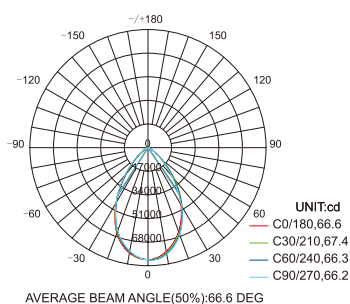
20°



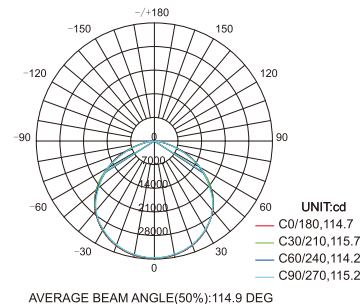
30°



40°

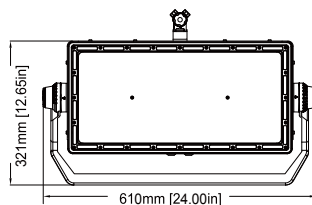
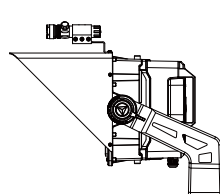


60°

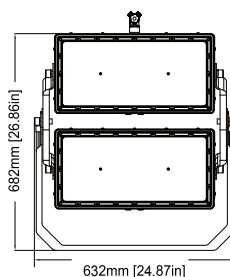
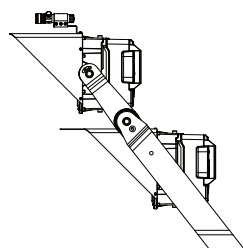
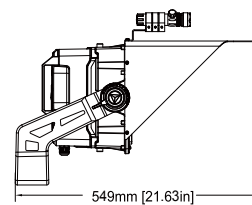


120°

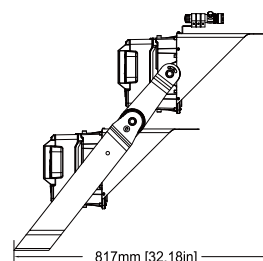
MECHANICAL DIMENSIONS



400W/500W/650W



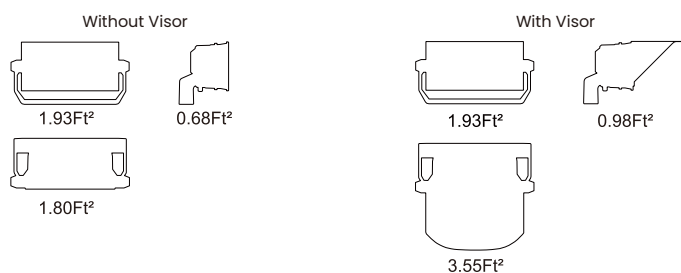
720W/800W/900W/1000W/1200W/1300W



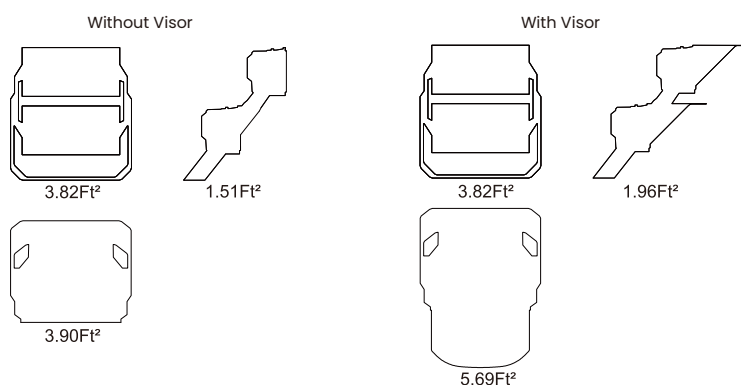
Product Model	HM-400W/500W/650W	HM-720W/800W/900W/1000W/1200W/1300W
Wattage	400W/500W/650W	720W/800W/900W/1000W/1200W/1300W
Outer box (L*W*H)	655x395x355mm (25.79"x15.55"x13.97")	855x700x350mm (33.66"x27.56"x13.78")
Q'ty/Ctn	1pc	1pc
N.W./Ctn	18.3kg/40.34lbs	31.5kg/69.44lbs
G.W./Ctn	20.5kg/45.19lbs	34.5kg/76.06lbs
Remarks	0.3M cable	0.3M cable

EPA

400W/500W/650W

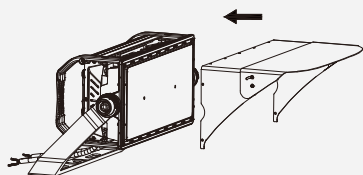


720W/800W/900W/
1000W/1200W/1300W



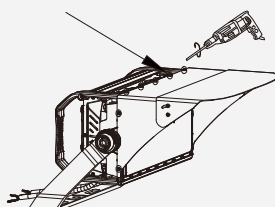
INSTALLATION

1. Take the Visor from the box, align the mounting holes with the luminaire.

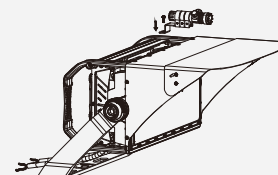


2. Take the screw, fit visor (M4 screw Torque Values 2.5 N.m).

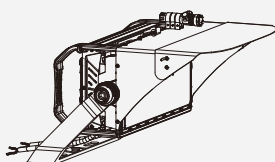
A total of 9 screws are required



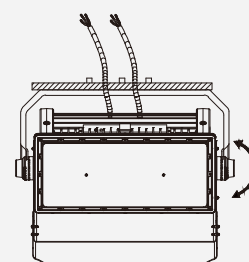
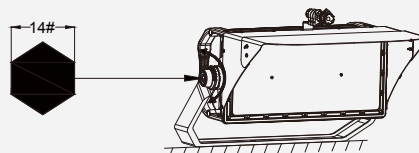
3. Take the sight from the box, align the mounting holes with the luminaire.



4. Take the screw, fit sight (M4 screw Torque Values 2.5 N.m).



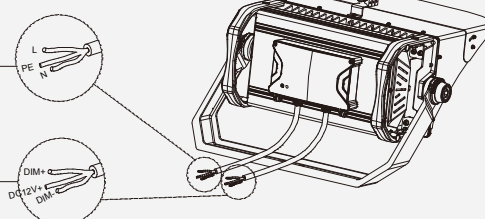
5. Loosen M16 hexagon head screw with wrench, adjust luminaire to designed angle (0°-180°), tighten screws and fix the luminaire (M16 screw Torque Values 114 N.m).



6.

AC Cable:
UL: SJTW/3C/18AWG/300V
CE: H05RN-F/3C*1.0m2/300-500V

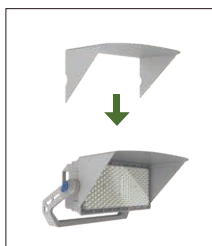
DIM Cable:
UL: SJTW/3C/18AWG/300V
CE: H05RN-F/3C*1.0m2/300-500V



ACCESSORIES



Laser Aiming Device



Visor

ORDER INFORMATION

HM-YY-YY-YY-Y

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① HM Series Square Sport Light

② Wattage

400W	400W
500W	500W
650W	650W
720W	720W
800W	800W
900W	900W
1000W	1000W
1200W	1200W
1300W	1300W

③ Color Temperature

50K	5000K
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④ Voltage

(Blank)	120-277V
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⑤ Dimmable

D	0-10V Dimming
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⑥ Optics

15	15°
20	20°
30	30°
40	40°
60	60°
120	120°

⑦ Control

(Blank)	No Socket
S	Sensor Socket
C	Control Module

⑧ Options

(Blank)	With Visor
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WARRANTY PERIOD
5/7/10 YEARS
WARRANTY OPTIONS



WARRANTY COVERAGE
**LED LIGHT SOURCE,
DRIVER**



AFTER-SALES
SERVICE COMMITMENT
24H RESPONSE



AFTER-SALES
SERVICE COMMITMENT
72H RESOLUTION/REPLACEMENT