



HR SERIES

ROUND SPORT LIGHT

INTRODUCTION

The FGE-HR Series Round Sport Light is purpose-built for stadiums, arenas, ports, and large outdoor facilities requiring powerful and uniform illumination. Utilizing high-output LED chips and precision-engineered optics, it achieves up to 150 lm/W, delivering bright, flicker-free lighting ideal for high-speed sports and large-area visibility.

Its aerodynamic die-cast aluminum housing ensures superior thermal management and corrosion resistance, with IP66 & IK09 protection ratings guaranteeing durability in extreme weather conditions. The modular design simplifies maintenance and allows flexible wattage configurations.

Optional DALI / 0-10V dimming, anti-glare visors, and various mounting options (bracket, pole, or wall), the HR 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°/45°/60°/80° beam options, ensuring uniform illumination and glare reduction.

- Robust Protection:

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

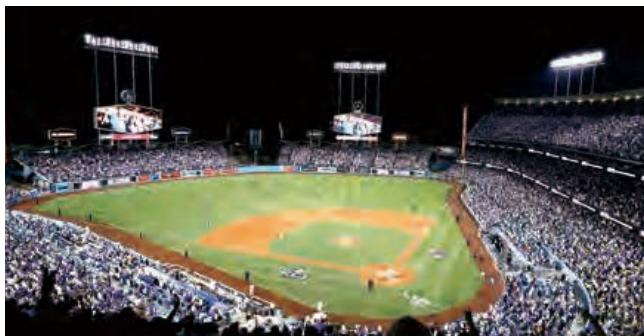
- Superior Thermal Management:

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.



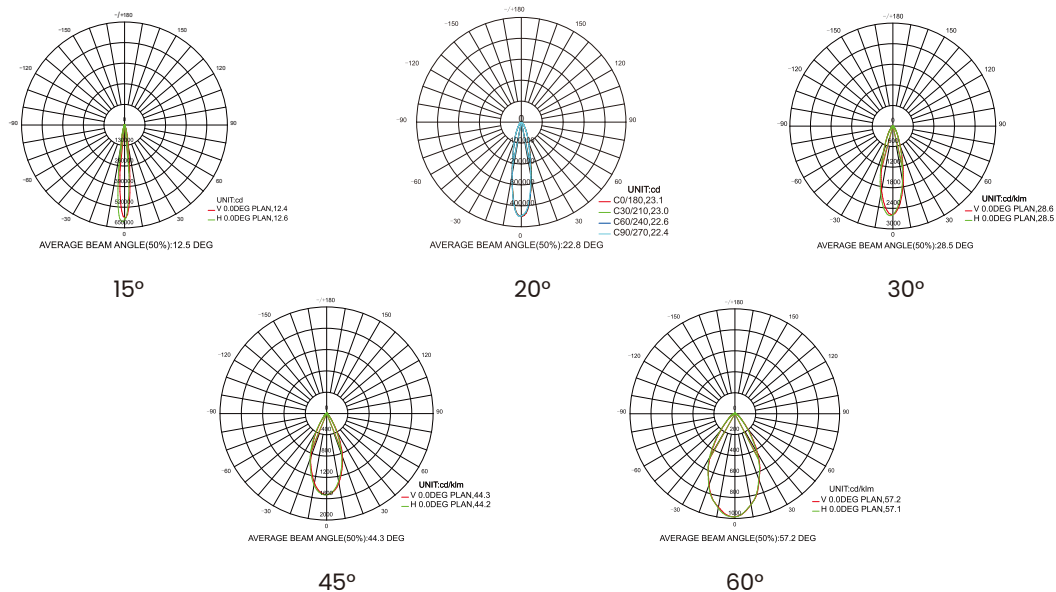
Port: Uniform light distribution eliminates dark spots and glare, enhancing visibility for workers, equipment operators, and surveillance systems even in low-light or foggy conditions.

TECHNICAL PARAMETERS

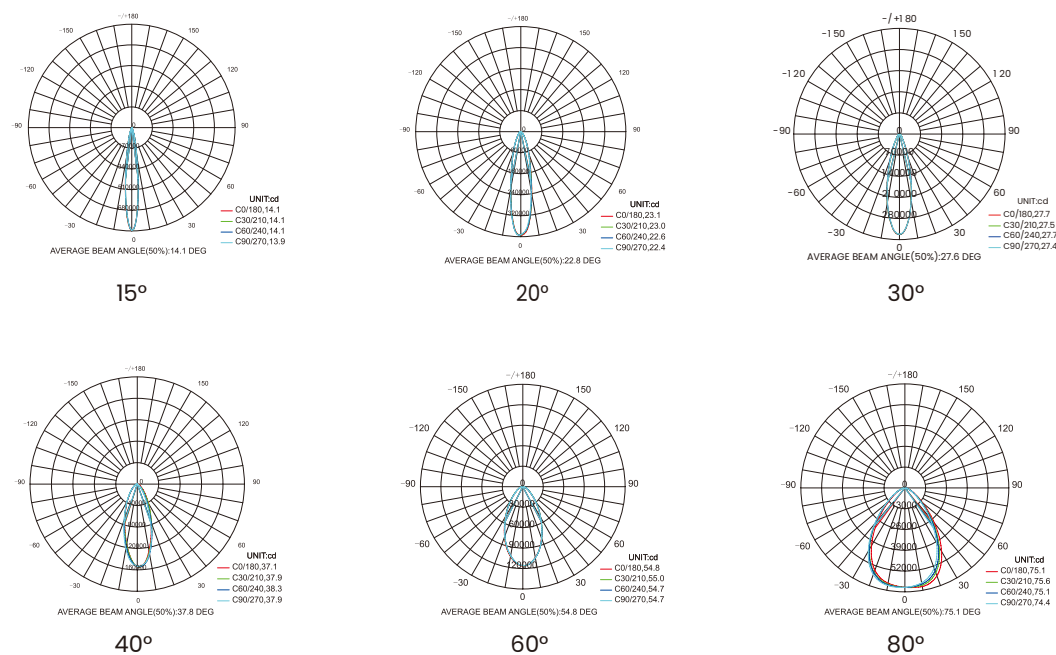
Product Model	HR-300W/400W/500W	HR-600W	HR-720W/800W	HR-1000W/1200W
Electrical Performance				
Wattage	300W/400W/500W	600W	720W/800W	1000W/1200W
Input Voltage	AC120-277V	AC120-277V	AC120-277V	AC120-277V
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Factor (PF)	0.95	0.95	0.95	0.95
Surge Protection	10KV (Standard) / 20KV (Optional)			
THD	<15%	<15%	<15%	<15%
Optical Performance				
Luminous Efficacy	150lm/W	150lm/W	150lm/W	150lm/W
Luminous Flux	45000lm/60000lm/75000lm	90000lm	108000lm/120000lm	150000lm/180000lm
CCT	5000K	5000K	5000K	5000K
CRI	Ra>70	Ra>70	Ra>70	Ra>70
Beam Angle	15°/20°/30°/45°/60°	15°/20°/30°/45°/60°	15°/20°/30°/40°/60°/80°	15°/20°/30°/40°/60°/80°
Unified Glare Rating (UGR)	<28	<28	<28	<28
Reliability				
Lifetime	>100,000h, L70 @25°C	>100,000h, L70 @25°C	>100,000h, L70 @25°C	>100,000h, L70 @25°C
Operating Temperature	-40 ~ +45°C	-40 ~ +45°C	-40 ~ +45°C	-40 ~ +45°C
Storage Temperature	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C	-40 ~ +70°C
Ingress Protection	IP66	IP66	IP66	IP66
Impact Resistance	IK09	IK09	IK09	IK09
Control				
Dimming	0-10V Dimming	0-10V Dimming	0-10V Dimming	0-10V Dimming
Sensor	-	-	-	-
Communication Protocol	-	-	-	-
Emergency Kit	-	-	-	-
Mechanical				
Housing Material	Die-cast Aluminum	Die-cast Aluminum	Die-cast Aluminum	Die-cast Aluminum
Lens Material	Anti-UV PC Optical Material	Anti-UV PC Optical Material	Anti-UV PC Optical Material	Anti-UV PC Optical Material
Coating	Black	Black	Black	Black
Net Weight	13.8kg	13.8kg	31kg	31kg
Dimensions	385x240x416mm	385x258x416mm	539x304.5x552.5mm	539x341x551mm
Warranty	5/7/10 Years	5/7/10 Years	5/7/10 Years	5/7/10 Years

PHOTOMETRICS

300W/400W/500W/600W

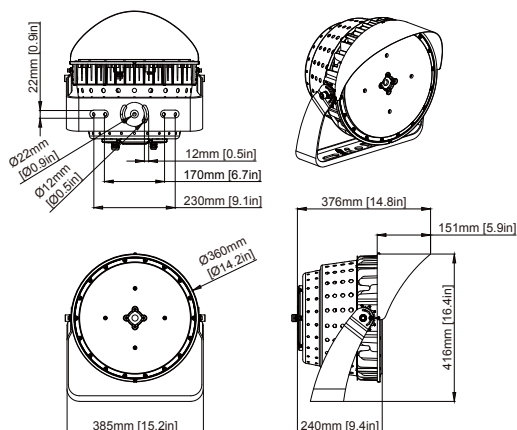


720W/800W/1000W/1200W

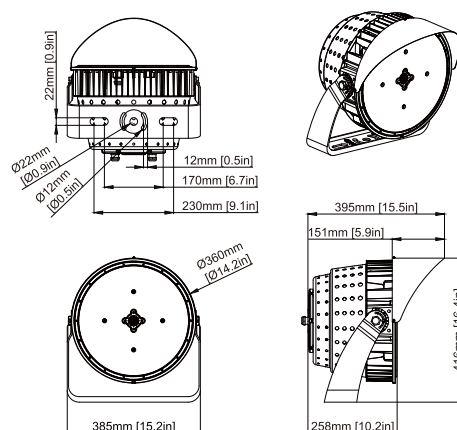


MECHANICAL DIMENSIONS

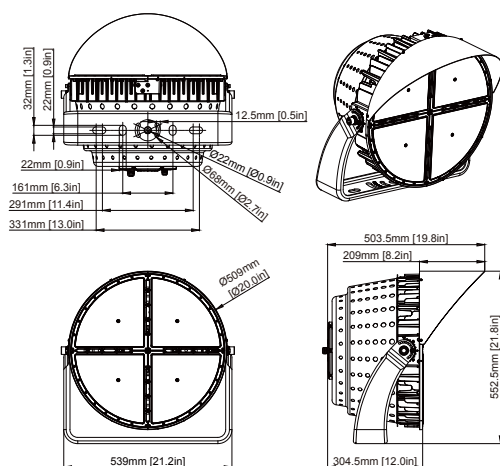
Product Model	HR-300W/400W/500W	HR-600W	HR-720/800/1000/1200W
Wattage	300W/400W/500W	600W	720W/800W/1000W/1200W
Outer box (L*W*H)	515x415x365mm (20.3"x16.3"x14.4")	515x435x385mm (20.3"x17.1"x15.2")	610x610x450mm (24.0"x24.0"x17.7")
Q'ty/Ctn	1pc	1pc	1pc
N.W./Ctn	13.8kg/30lbs	31kg/68lbs	31kg/68lbs
G.W./Ctn	16.2kg/35lbs	35.2kg/77lbs	35.2kg/77lbs
Remarks	0.3M cable	0.3M cable	0.3M cable



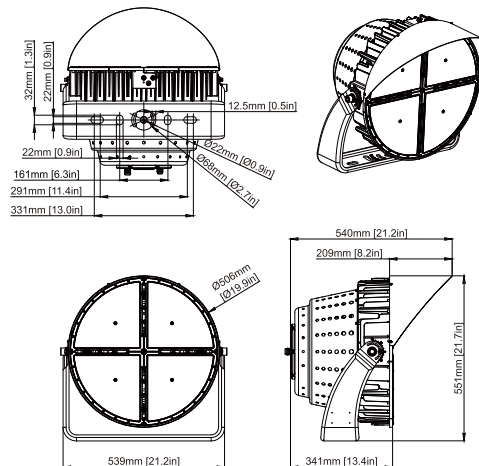
300W/400W/500W



600W



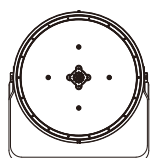
720W/800W



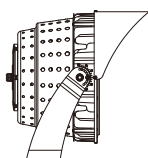
1000W/1200W

EPA

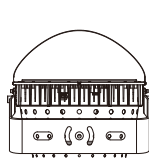
300-500W



EPA: 1.43 ft²

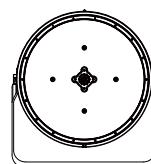


EPA: 1.16 ft²

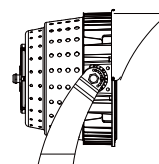


EPA: 1.42 ft²

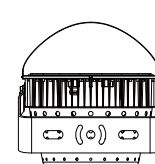
600W



EPA: 1.43 ft²

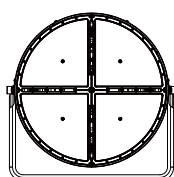


EPA: 1.26 ft²

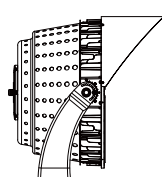


EPA: 1.44 ft²

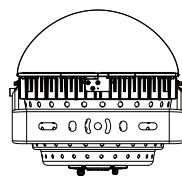
700-800W



EPA: 2.88 ft²

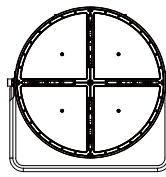


EPA: 2.05 ft²

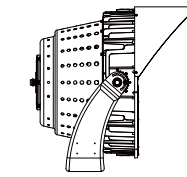


EPA: 2.67 ft²

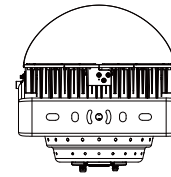
900-1200W



EPA: 2.88 ft²



EPA: 2.16 ft²

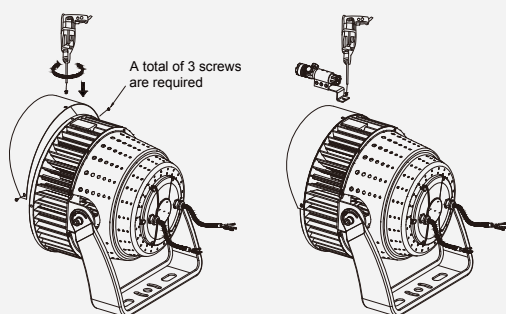


EPA: 2.70 ft²

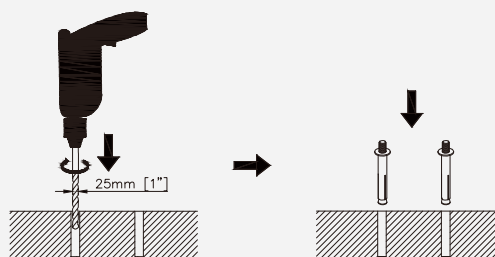
INSTALLATION

300W-600W

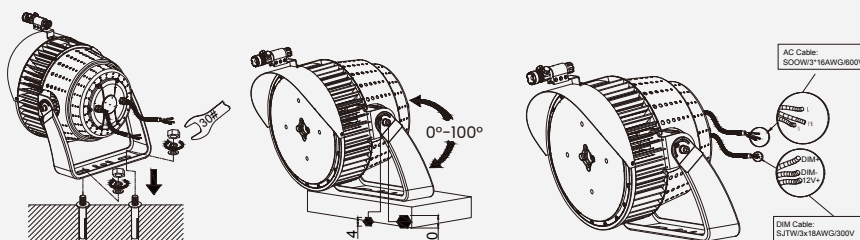
1. Take the Visor from the box, align the mounting holes with the luminaire.
2. Take the Screw, fit visor. (M4 screw Torque Values 2.5 N.m)



3. Drill holes at the marked points with a 25mm diameter electric drill bit.
4. Insert the M20 explosive bolt into the hole.

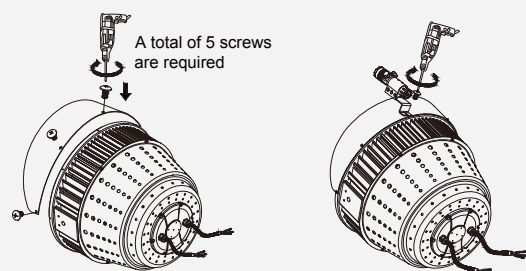


5. Insert the strip holes at the bottom of the u-shaped metal frame of the lamp body into the ground bolts.
6. Ordinal with metal flat washers, spring washers and M20 nut will the lamp body is fixed on the ground. (M20 screw Torque Values 200N.m)
7. could be installed with one screw.
8. Loosen M12 hexagon head screw with wrench, adjust luminaire to designed angle (0°-100°), tighten screws and fix the luminaire (M12 screw Torque Values 29N.m).
9. Take the Screw, fit visor (M5 screw Torque Values 2.5 N.m).

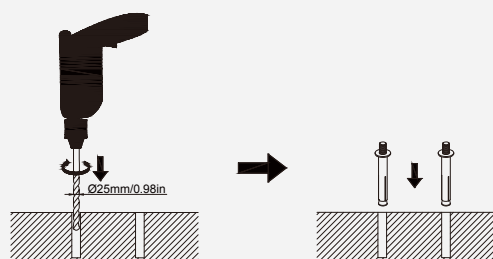


720W-1200W

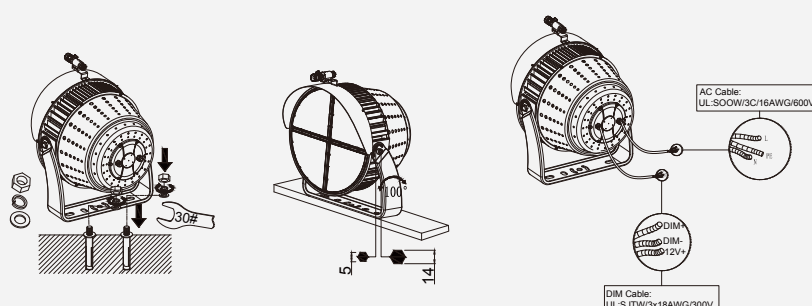
1. Take the Visor from the box, align the mounting holes with the luminaire.
2. Take the Screw, fit visor. (M4 screw Torque Values 2.5 N.m)



3. Drill holes at the marked points with a 25mm diameter electric drill bit.
4. Insert the M20 explosive bolt into the hole



5. Insert the strip holes at the bottom of the u-shaped metal frame of the lamp body into the ground bolts.
6. Ordinal with metal flat washers, spring washers and M20 nut will the lamp body is fixed on the ground. (M20 screw Torque Values 200N.m)
7. could be installed with one screw.
8. Loosen M16 hexagon head screw with wrench, adjust luminaire to design angle (0°-100°), tighten screws and fix the luminaire (M16 screw Torque Values 114N.m).
9. Take the Screw, fit visor (M6 screw Torque Values 3.5 N.m).



ACCESSORIES



Laser Aiming Device



Visor

ORDER INFORMATION

HR-YY-YY-YY-Y

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① HR Series Round Sport Light

② Wattage

300W	300W
400W	400W
500W	500W
600W	600W
720W	720W
800W	800W
1000W	1000W
1200W	1200W

③ Color Temperature

50K	5000K
-----	-------

④ Voltage

(Blank)	120-277V
---------	----------

⑤ Dimmable

D	0-10V Dimming
---	---------------

⑥ Optics

15	15°
20	20°
30	30°
40	40°
45	45°
60	60°
80	80°

⑦ Control

(Blank)	No Socket
S	Sensor Socket
C	Control Module

⑧ Options

(Blank)	0.3M cord
---------	-----------



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