

CHAMPION

G3 Stadium Lighting



CHAMPION

SPORTS LIGHTING EXPERT

We have been focusing on sports lighting for the past 11 years, especially in the sports lighting industry. We provide you with a complete set of services, from engineering inquiry to complete shipment, and offering consulting service until the project installation finished at the end users site. We always keep tightly communication with our clients throughout the process.

WORLD CLASS PRODUCT

With designing, engineering, procurement and execution backed up by own plant for sports lighting, high mast lighting, iBEAM is in a position to offer turnkey solutions for any sports lighting requirement in overseas market. Place your trust with one of the biggest names in the industry.



OSRAM

INVENTRONICS

CHAMPION

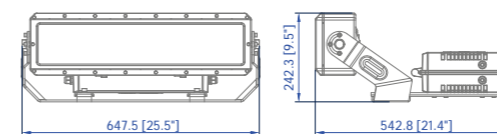
The Champion sports light is smart and excellent in appearance, up an area of courts, stadiums, playground, light towers and other large area, especially applicable for HDTV broadcast games. The patented proprietary for air convection which makes the heat dissipation efficiency higher, ensures low LED junction temperature while maintaining its extremely light weight, ensures longer LED life and safety.



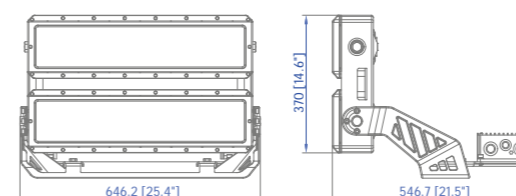
LED SPORTS LIGHT

DIMENSION(mm)

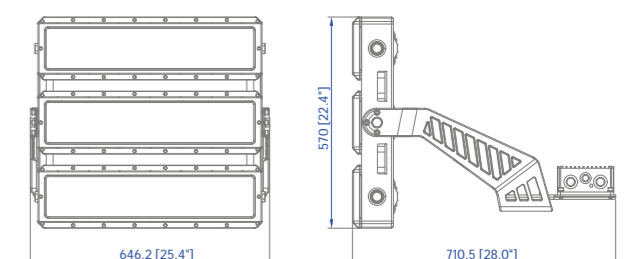
500W,600W



750W,1000W,1200W



1500W,1800W



OSRAM
INVENTRONICS



THE IMPORTANCE OF SPORTS LIGHTING FOR STADIUM

01

LIGHT FOR PEOPLE

A perfect lighting system of sports lighting not only ensures visibility and clarity, but also helps to improve the user experience for the entertainment stimulates enthusiasm and emotions for players, officials, and also the spectators, and cameraman, as well as the fans who watching TV at home.

02

LIGHT FOR PLACES

Light plays an important role in today's sports events. From the designing to lighting up the area, excellent lighting quality, flicker-free, and proper lighting uniformity are quite important keys to making sports events happen.

03

BRAND QUALITY

iBEAM Lighting manufactures the luminaries with high standard ISO9001. Big invest to R&D in both products, and well-organized supply-chain which helps us support our clients with cost effective products and fast delivery.

04

LOW MAINTENANCE COST

With the creative solution of remote mounting driver box, normally mounted at 10ft (3m) above the ground, no need to hire the super expensive big lift trucks in case of maintenance someday. It contributes at least 25% less cost.

05

INTELLIGENT CONTROL

iBEAM Lighting solutions are easy to be controlled. Available with DMX, DALI, 0-10V dimming, we can offer you smart stadiums. With the help of the intelligent controls, it makes the stadiums flexible, and emotionally. A great way to emphasize the lighting effect.

06

LOW GLARE

A safe stadium is protecting people. iBEAM Lighting solutions ensure both indoor and outdoor around the arena. Well lighting up stadiums reduce the accidents and enhance spectators on trust.

EXCEPTIONAL LIGHTING EXPERIENCE

iBEAM proposed professional lighting solution which can meet all the needs of international sports federation and helping facility managers benefit from numerous advantages both in terms of efficiency and reduction of the the management and maintenance cost and increasing their revenue by providing fans ultimate visual experience.

EXCEPTIONAL LIGHTING EXPERIENCE



SPECTATOR

iBEAM's good lighting let fans fully participate in the game. Passing, goal, intermissions, different scenes can have different lighting effect for different scenes with lighting control system, makes fans watching the game live get wild.



PLAYERS

For players, less glare and sufficient illumination are most important. With perfect optical design, our products ensure illuminance uniformity vertically and horizontally with less glare effect.



HDTV

With high high TLCI index and flicker free, our lighting fits all demands of television broadcaster. Fans in front of the TV can have almost the same experience as the fans at present.



RESIDENTIAL

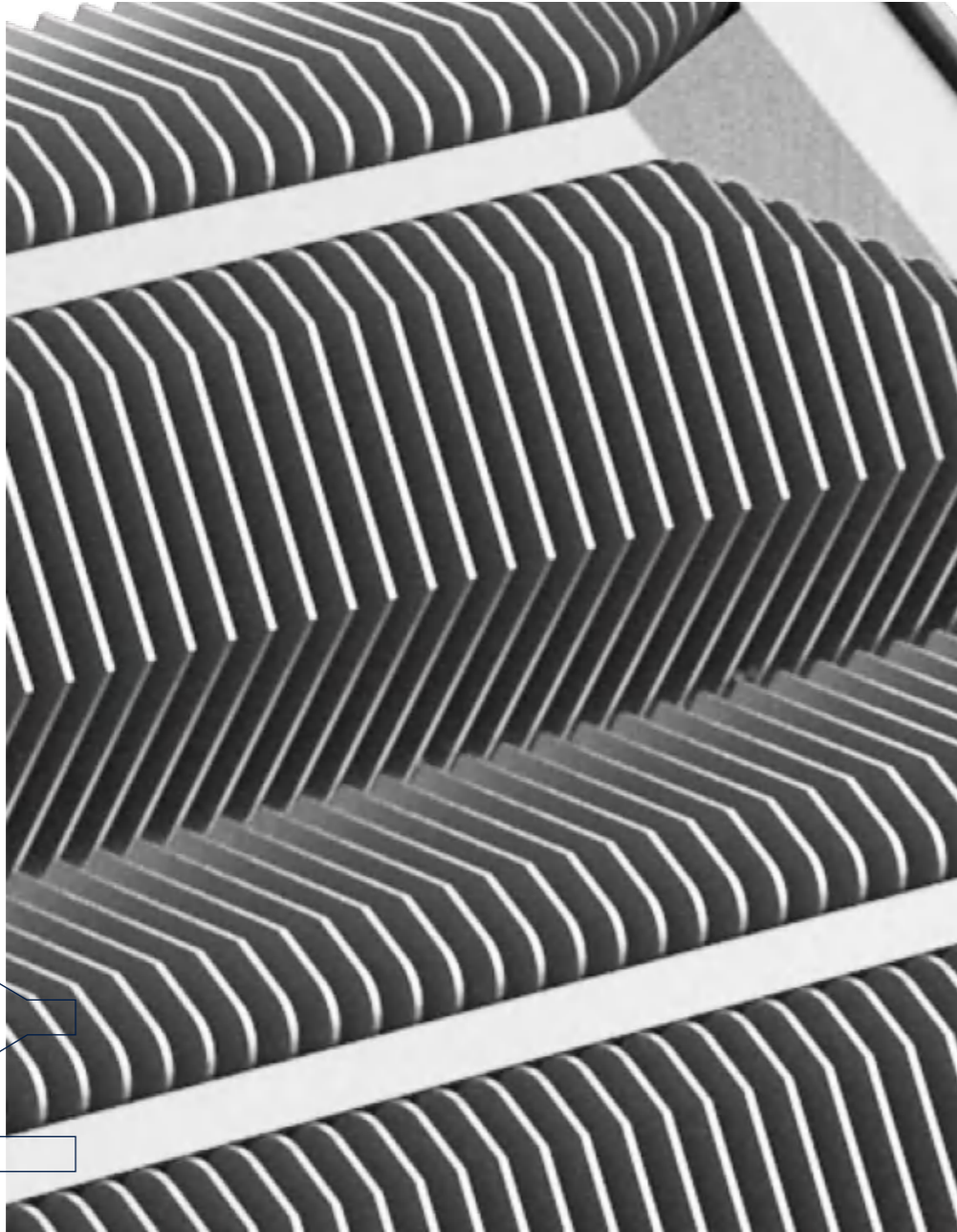
Good back light control reduce light pollution. Outside the stadium, less spill light is very kind to neighbors.



INVESTORS

The product is very cost-effective that can save initial investment. And the good product performance saves maintenance costs in the future.

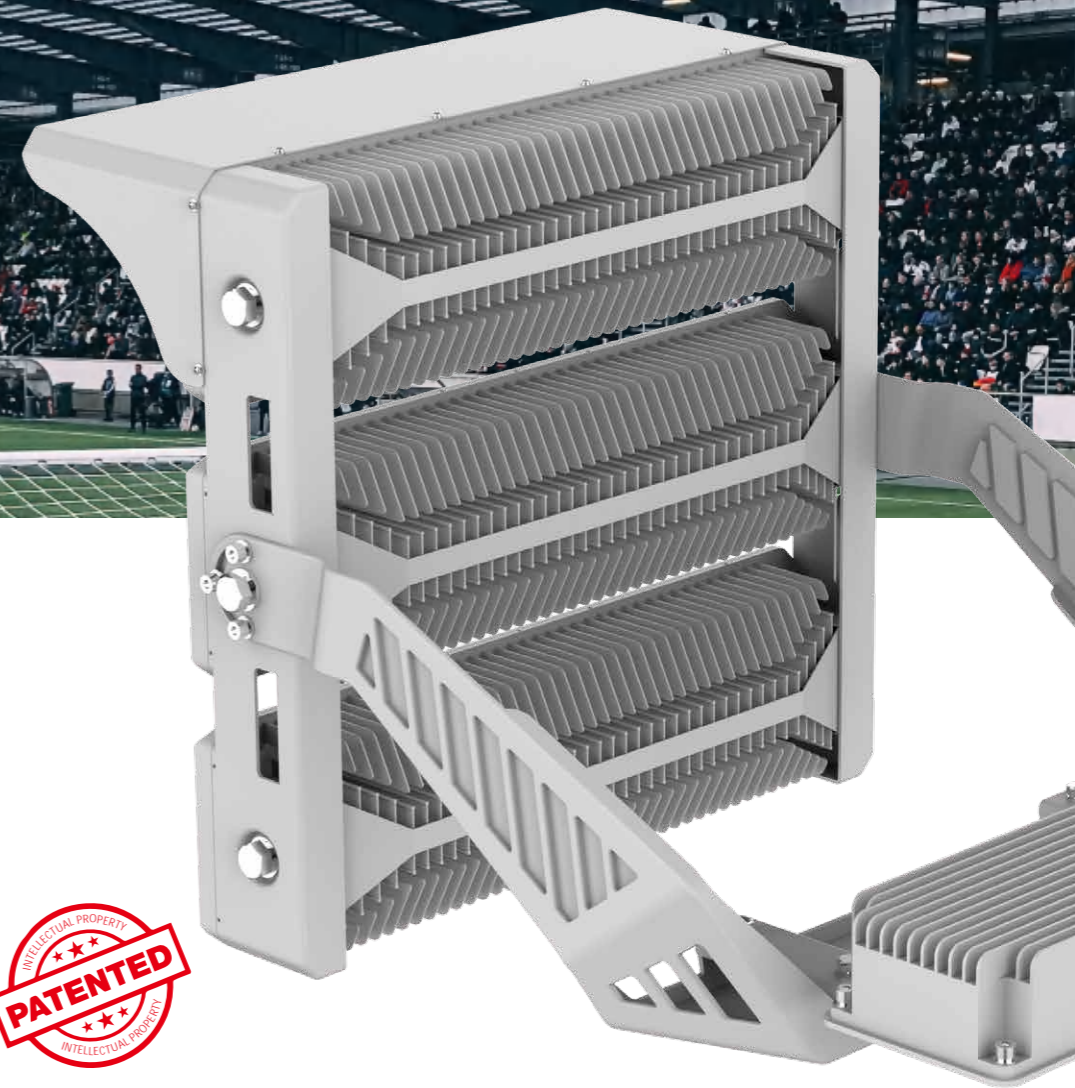
RELIABLY QUALITY



LONG-LASTING PERFORMANCE

2000 HOURS CORROSION
PROTECTION

COMPACT SIZE, LOW WEIGHT





SPORTS LIGHTING

CHAMPION

SPECIFICATIONS

| Model Name | AFL09G3-500 | AFL09G3-600 | AFL09G3-750 | AFL09G3-1000 | AFL09G3-1200 | AFL09G3-1500 | AFL09G3-1800 |
|--------------------------------------|---|---------------------|---------------------|---------------------|---------------------|---------------------|--------------|
| Power Consumption | 500W | 600W | 750W | 1000W | 1200W | 1500W | 1800W |
| Light Source | OSRAM | | | | | | |
| CCT | 5700K (4000K/5000K/3000K/2200K optional) | | | | | | |
| Luminous Flux (Lm) | 70,000Lm | 84,00Lm | 112,500Lm | 140,000Lm | 168,000Lm | 210,000Lm | 252,000Lm |
| Luminous Efficacy(Lm/W) | 140Lm/W | 140Lm/W | 150Lm/W | 140Lm/W | 140Lm/W | 140Lm/W | 140Lm/W |
| CRI | 70 Ra | 70 Ra | 70 Ra | 70 Ra | 70 Ra | 70 Ra | 70 Ra |
| Lighting Distribution | 12°, 15°, 50°, NB, MB, WB(hundreds of light distribution for different level projects) | | | | | | |
| LED Driver | Inventronics | | | | | | |
| Input Voltage | AC100-277V/ 200-480V | | | | | | |
| Frequency | 50 / 60 Hz | | | | | | |
| Power Factor | ≥0.9 at Max load | | | | | | |
| FF (Flicker Factor) | <1% | | | | | | |
| Power Efficiency | >0.93 | | | | | | |
| THD | <15% | | | | | | |
| Surge Protection | Line - Line 20kV, Line - FG 20kV | | | | | | |
| Control Method | 0-10V/DALI/WIFI/DALI/Zigbee/DMX | | | | | | |
| Size | Inch | 25.5"x21.4"x9.5" | | 26.9"x17.2"x11.6" | | 27.3"x26.8"x22.4" | |
| | mm | 648x543x243mm | | 647x547x370mm | | 647x711x570mm | |
| Frontal Surface (Front EPA) | 0.14m² (1.55ft²) | | 0.3m² (3.23ft²) | | 0.38m² (4.13ft²) | | |
| Side Surface (Side EPA) | 0.08m² (0.81ft²) | | 0.09m² (1.02ft²) | | 0.15m² (1.56ft²) | | |
| Weight (Remote mounting driver box) | Lamp | 10.34kgs (22.79lbs) | | 18.08kgs (39.86lbs) | | 29.28kgs (64.56lbs) | |
| | Driver Box | 8.51kgs (18.76lbs) | | 7.56kgs (16.67lbs) | | 7.8kgs (17.20lbs) | |
| Weight (Intergrated with driver box) | 18.81kgs (41.55lbs) | | 25.64kgs (56.53lbs) | | 37.08kgs (81.75lbs) | | |
| Housing Material | Finishing powder coated AL1070 pure aluminum for marine salt protection and swimming pool applications. | | | | | | |
| Optic lens and cover | UV protected optical Lens (PC cover 3.0mm optional) | | | | | | |
| Cut-off Shield (optional) | Finishing powder coated galvanized iron sheet Metal (Marine Specialty Painting if required) | | | | | | |
| Mounting Bracket | Finishing powder coated galvanized iron sheet metal (Marine Specialty Painting if required) | | | | | | |
| IP Rating | IP66 | | | | | | |
| Operating Temperature | -104°F -122°F / -40°C - 50°C | | | | | | |
| Warranty | 10 Years | | | | | | |

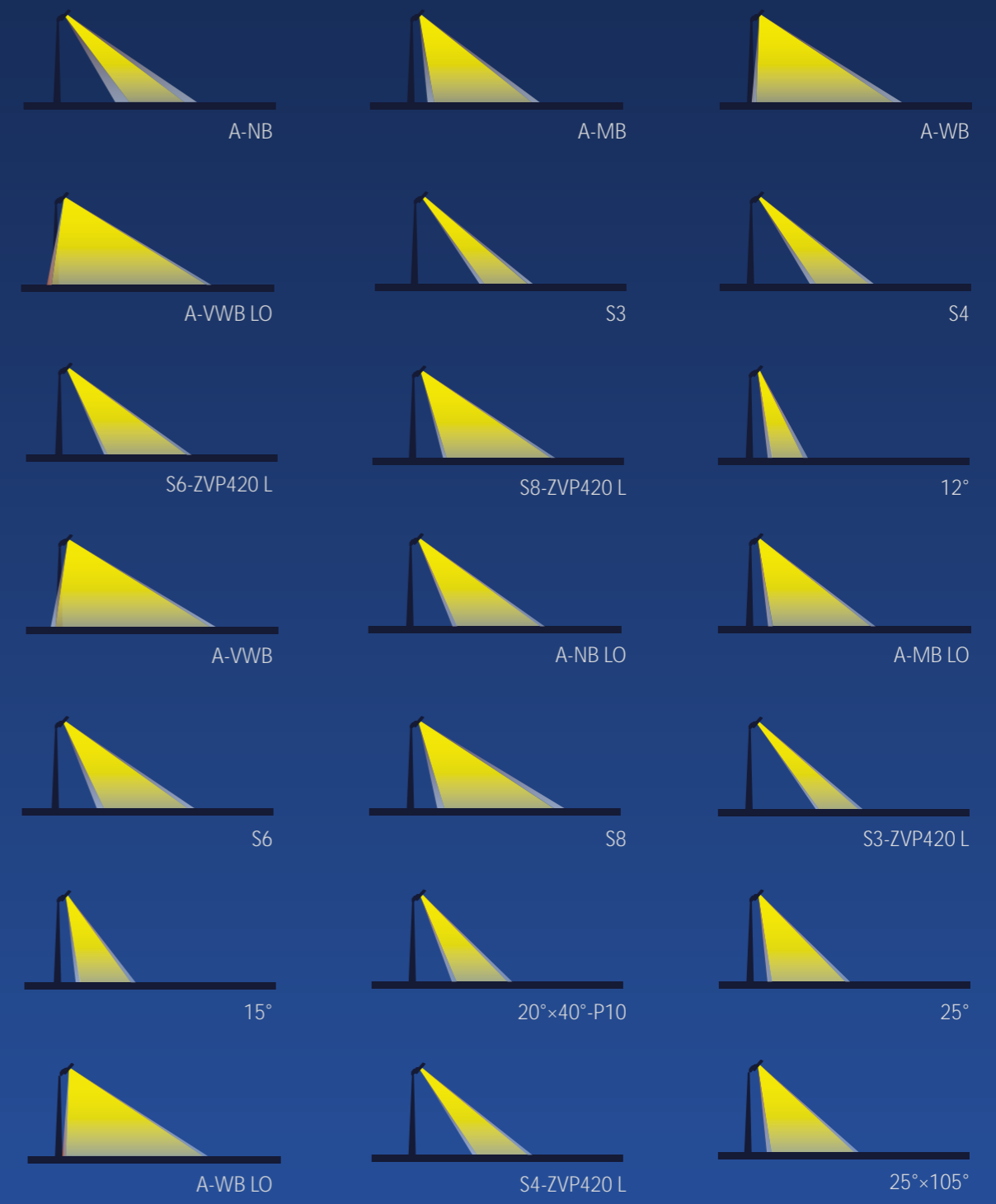
CHAMPION OPTICAL SYSTEM

FOR SPORTS PROFESSIONAL & RECREATIONAL SPORTS

ADVANCED TECHNOLOGY FOR SPORTS LIGHTING

iBEAM Lighting is dedicated to keeping providing the most optimized lighting beam angles under different areas. The high performance of the CHAMPION optical lens ensures smart area and recreational sports lighting. Not only in compact size and flexibility but also in efficiency. There is excellent spill light control, low glare and limits of glare, and perfect control of uplight.

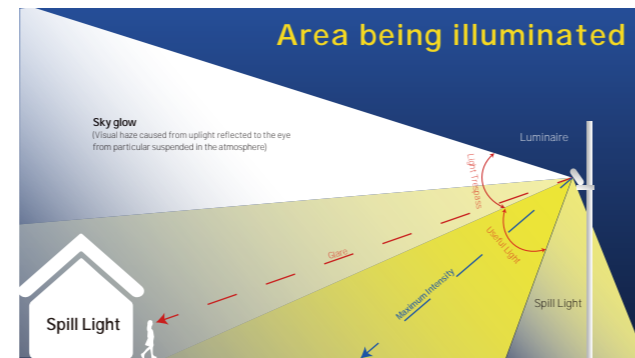
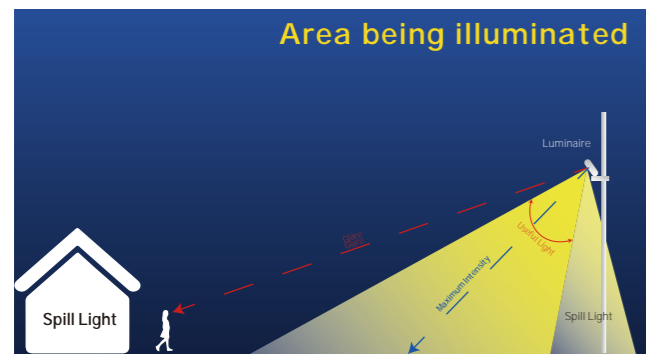
The wide range of optical and beam angles contribute to the most optimized solution in multiple application areas. Maximum usage of the effective lighting to provide the precise lighting direction and minimize the power consumption for energy saving. Total cost of ownership has to go down, and carbon emissions reduced. The right lighting design gives the maximum flexibility in meeting different application requirement.



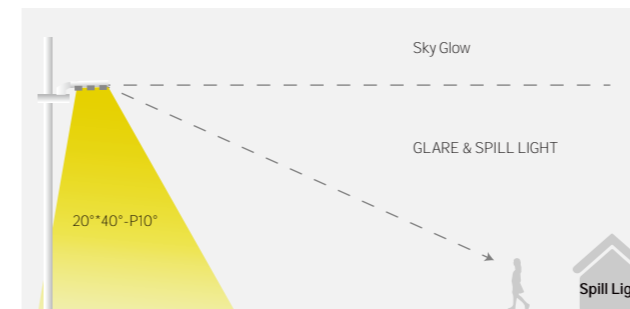
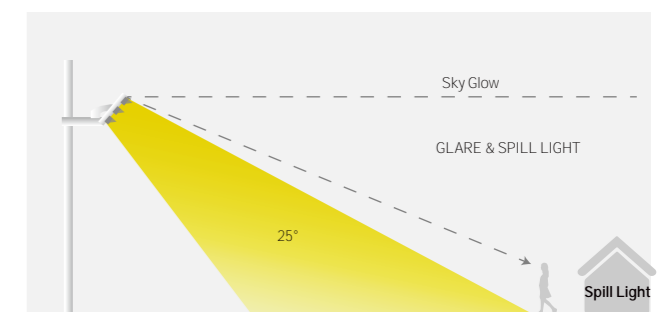
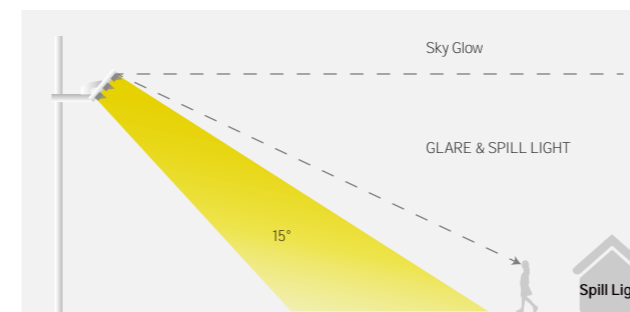
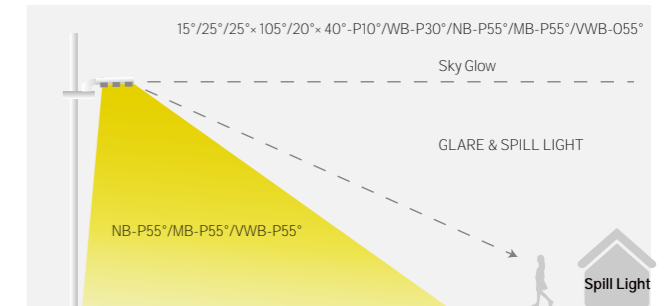
CHAMPION OPTICAL SYSTEM

LIGHTING DISTRIBUTION

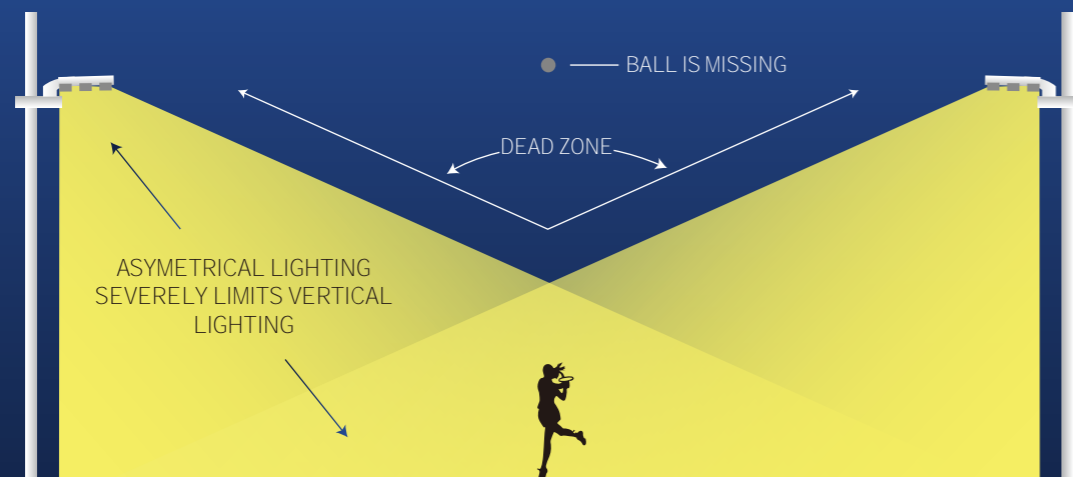
With hundreds of different beam angles, our Champion flood lighting could meet most of your applications, including the sports facilities, aprons, high masts, poles, stockpiles, ports. The spill light and sky glow are strictly controlled by our optical designer. It makes sky-friendly and neighbour-friendly. The professional AGI32 lighting simulation report is always available.



Champion series are built upon non-polluting LED-technology, delivering light to sports arenas, fields and creative project ONLY where the light is supposed to be, and remove disturbing light pollution to neighbors and surroundings.



ASYMMETRICAL LIGHTING FIXTURES



SYMMETRICAL LIGHTING FIXTURES



SPORTS LIGHTING GUIDE

According to UEFA Stadium Lighting Guide 2016, the requirements in terms of artificial illuminance of stadiums are split into Broadcast and Non-broadcast level. The broadcast level is also split into 5 levels, including Elite level A, level A, level B, level C, level D. While the non-broadcast constitutes the minimum requirements.

TV BROADCAST LEVEL

| | Elite level A | Level A | Level B | Level C | Level D |
|-----------------------------------|--|--|--|--|--|
| Eh ave | >2000lux | >1500lux | >1400lux | >1200lux | >800lux |
| U _{1h} , U _{2h} | U ₁ >0.5, U ₂ >0.7 | U ₁ >0.5, U ₂ >0.7 | U ₁ >0.5, U ₂ >0.7 | U ₁ >0.4, U ₂ >0.6 | U ₁ >0.4, U ₂ >0.5 |
| Ev ave | >1500lux | >1250lux | >1000lux | >750lux | >350lux |
| U _{1v} , U _{2v} | U ₁ >0.4, U ₂ >0.5 | U ₁ >0.4, U ₂ >0.5 | U ₁ >0.4, U ₂ >0.5 | U ₁ >0.35, U ₂ >0.45 | - |
| FF(Flicker) | <5% | <12% | <12% | <20% | - |
| CCT | 5000K/5700K | 5000K/5700K | 5000K/5700K | 4000-5700K | 4000-5700K |
| GR | <50 | <50 | <50 | <50 | <50 |
| MF | 0.85 | 0.8 | 0.8 | 0.7 | 0.7 |
| CRI | ≥80Ra | ≥80Ra | ≥80Ra | ≥70Ra | ≥70Ra |

NON-BROADCAST LEVEL

According to EN12193 requirements of lighting football field, because of recreational football is usually played in the evening after work, effective lighting maximizes the opportunity for people to take part in the game.

EN12193 REQUIREMENTS

class

| | | I | II | III |
|------------------------|---------------------|-----|-----|-----|
| Horizontal illuminance | \bar{E}_m lx | 500 | 200 | 75 |
| | E_{min}/\bar{E}_m | 0.7 | 0.6 | 0.5 |
| GR | | 50 | 50 | 55 |
| Ra | | 60 | 60 | 20 |

