



## LED STADIUM LIGHT 400W/600W/800W/1200W/1500W/1800W

100+ Patent Certificates\$1,000,000+ Annual Energy Saving10,000+ Projects Successfully Installed



# > Features of ISF Series

ISF series is an energy-saving and economical LED flood light which is suitable for stadium lighting. It is also suitable for large outdoor lighting such as ports and docks.

- Up to 150LM/W, power range: 400W-1800W.
- · Modular design, a maximum of 3 modules available.
- UV stabilized polyester powder paint finish for durability and corrosion resistance. Saving maintenance budget and operating costs.
- · Die-casting aluminum, excellent heat dissipation design, more conducive to prolong the lifespan.
- Excellent lighting system design, better performance.
- Eco-friendly, the lighting around the site is not plagued by light pollution.
- The illumination of the site is significantly improved, with better uniformity, and the overflow light is reduced to a minimum.



## (Optional) **APPLICABLE TO 4K & HD TV LIVESTREAM**





LIGHTWEIGHT

**MAX. <30KG** 

## **UPTO1800W** MODULAR

Modular design makes the fixture easy to repair and replace. Maximum power to 1800W, flexible to adapt to project lighting needs.

The total weight of the 1800W fixture is less than 30KG (without a driver box). The lighter the weight, the easier the installation and the safer the fixture it is.





For other certificates please request





ISF guarantees excellent TV footage thanks to LED sources with a high TLCI index (Max >95) and allows the creation of super slow motion flicker-free.



## CONVENIENT INSTALLATION

Type-A (Top-fixed) or Type-U (Yoke mount) installation. The installation procedure is simple and saves time and manpower.

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# > Perfect Design for Gaming

• The lighting system, electrical, structural all links of the precise configuration and full consideration, precise control of light, to ensure the best light efficiency. We make the whole lighting system faultless, more durable.

• We provide easy-to-maintain design, integrated grounding, and surge protection to ensure the long life of the sensitive electrical components required by LEDs.

### **HEAT SINK**

• Die-casting aluminum ADC12, high thermal conductivity

- Unique convective air cooling design
  Machined smooth surface for maximum
- heat transfer of the LEDs
- $\boldsymbol{\cdot}$  Maintains low LED junction temperature for high wattage operation

## WATERPROOF RING

High-temperature resistance materials
Aging resistance, excellent sealing

### **TEMPERED GLASS ~**

Impact-resistant IK08High transparency

## U-BRACKET



## LED PANEL

Seoul 5050/Seoul Z5M4 3535
CREE/LUMILEDS optional
Metal-core printed circuit board

### LENS

High-temperature resistance PC materials
High transparency
Multiple beam angles

### **SURFACE COVER**

Perfectly sealed to keep optics away from harmful environmental elements
High-strength material ADC12

## **LIGHT VISOR OPTIONAL**

Visor with a reflective surface and adjustable angle
Dramatically reduces glare and spill, and maintain high output



### Type-A (Optical Lens)



## Type-U (Optical Lens)



Type-U Power Supply Split Installation

to the constant improvements in product development, individual parameters might change. Please refer to our sales or R&D team for most up-to-date content of

specifications are subject to change without notice



Type-A (With Reflector)



Type-U (With Reflector)



Type-U Driverbox Integrated with Bracket

# > Flexible & Convenient Installation

5° each scale

## Type-A Top-fixed Bracket

The innovative top-fixed bracket is ideal for the suspended installation of ISF in limited spaces(for example under the roof cover of grandstands). Furthermore, top-fixed simplifies pointing operations. This fixing system allows adjustment on several planes and axes: the main adjustment with tilt range in the horizontal plane  $\pm 63^{\circ}$ , rotation range on vertical axis 90°.



Laser aming & Visor Optional







horizontal ±63°

Type-U Yoke Mount

The Type-U Bracket of ISF is made of 304 stainless steel, with super corrosion resistance. It is adjustable and tiltable on the horizontal plane  $\pm 4^{\circ}/\pm 6.5^{\circ}/\pm 10^{\circ}$ , rotation range on vertical:  $\pm 110^{\circ}/-180^{\circ}$ .

It is also available for inverted mounting, guaranteeing great installation versatility.





\*As the products are upgraded, the accessories may differ from those described in the picture

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# > Photometric Design



The ISF series is available with a high-performance Optical System, customizable to meet all installation requirements in professional sports fields. The system consists of floodlighting optics for punctual lighting in the pitch. The lighting solutions allow optimizing light in every direction with extreme flexibility. The solution uses specific LED sources for high-grade TLCI television broadcasts.

The ISF series is designed with an innovative lighting technique for sports fields that makes the installation of the floodlights extremely simple, without resorting to precise aiming. The lighting reflector system has been created specifically for certain sports facilities such as the tennis court, where the installation of the luminaires can also be quick and easy.



Accurate light distribution design to ensure accurate lighting, Seoul or CREE/LUMILEDS LED chips to ensure the best lighting performance.



specifications are subject to change without notice

# > Control of Light

 Glare & light pollution • Light spills out



 Glare can cause problems for athletes and nearby residents. Spillover light causes light pollution in the night sky. Solving the problem of reducing light pollution is the primary mission of our product design. While providing a brighter lighting system for the site, we were also concerned about how to reduce the disturbance to the surrounding environment.



• Effective control of light can better reflect the energy conservation and environmental protection of LED lighting equipment. The low glare design of the ISF series allows for effective control of light and direction, providing greater comfort for athletes on the field, a better spectator experience, and minimizing light pollution.

• Precise lighting system design of ISF series, combined with visor, reduces in-site glare by 40%, spills by more than 50%, and saves energy by up to 40% compared to conventional MHL or other lamps.

## > Referential Simulation Result

## >Smart Lighting Control

### **Simulation Renderings**

### **Reference Data**

Field proportion: 105\*68m; Installation height: 30m; Pole number: 4 PCS; Number of fixtures: 5 PCS \*4; The total lumens: 144000lm; Power of each fixture: 1200W;



### **Illumination Parameters**









Through remote control, the lighting can achieve the best effect of professional competition, so as to meet the lighting demand of the field competition. Easy to operate, quick adjustment, intelligent system can be more conveniently deployed.



The Lora Light wireless system or Zigbee control with strong anti-interference ability is adopted in the wireless transmission unit of the light controller to realize the communication between nodes and gateways. The data of various sensors on the node light controller is sent back to the gateway, and the control command of the gateway is also sent to the node light controller.

Through the controller, the staff can conveniently remote control the status of lamps and lanterns and adjust them, so that the lighting management of the site is more intelligent.

### **Training or Recreation**



Lighting on the spot only needs to meet the effect of training or daily recreational activities, and the illumination of fixtures can be reasonably adjusted through remote control. It can not only save energy consumption but also save operating expenses.





# > Application Reference





## Parameter Table

Model		AOK-400WiSF	AOK-600WiSF	AOK-800WISF	AOK-1200WiSF	AOK-1500WiSF	AOK-1800WiS	
Power(W)		400W	600W	800W	1200W	1500W	1800W	
Modules		1	1	2	2	3	3	
nput voltage			100-277V/277-	480V, 50/60Hz		220-400V,	50/60Hz	
THD				<20	0%			
PF				>0.	90			
Control Option		0-1	0V/PWM Timer diming (Sta	ndard), DALI, DMX512 (Optic	nal)	DALI, DMX512	2 (Standard)	
Ambient temperature		-40°C to 50°C	-40°C to 45°C	-40°C to 50°C	-40°C to 45°C	-40°C to 50°C	-40°C to 45°0	
Driver brand				Based on the actu	al project demand			
Surge protection				20kV av	ailable			
Photometric Data								
	15D	140lm/W	140lm/W	140lm/W	140lm/W	140lm/W	140lm/W	
	35*85D	150 lm/W	150lm/W	150lm/W	150lm/W	150lm/W	150lm/W	
Efficacy (Im/W, Std. Dev.	20*30D	140lm/W	140lm/W	140lm/W	140lm/W	140lm/W	140lm/W	
±5%)@CCT=4000K,	30D	150lm/W	150lm/W	150lm/W	150lm/W	150lm/W	150lm/W	
CRI>70Ra	PG30D	140lm/W	140lm/W	140lm/W	140lm/W	140lm/W	140lm/W	
	PG60D	140lm/W	140lm/W	140lm/W	140lm/W	140lm/W	140lm/W	
	15D	56000lm	84000lm	112000lm	140mi W	210000lm	252000lm	
			1					
uminous flux (Im, Std.	35*85D	60000lm	90000lm	120000lm	180000lm	225000lm	270000lm	
Dev. ±5%)@CCT=4000K,	20*30D	56000lm	84000lm	112000lm	168000lm	210000lm	252000lm	
CRI>70Ra	30D	60000lm	90000lm	120000lm	180000lm	225000lm	270000lm	
	PG30D	56000lm	84000lm	112000lm	168000lm	210000lm	252000lm	
	PG60D	56000lm	84000lm	112000lm	168000lm	210000lm	252000lm	
	15D	125lm/W	125lm/W	125lm/W	125lm/W	125lm/W	125lm/W	
Efficacy (Im/W, Std. Dev. ±5%)@CCT=4000K,	35*85D	135lm/W	135lm/W	135lm/W	135lm/W	135lm/W	135lm/W	
	20*30D	125lm/W	125lm/W	125lm/W	125lm/W	125lm/W	125lm/W	
CRI>70Ra, with visor	30D	135lm/W	135lm/W	135lm/W	135lm/W	135lm/W	135lm/W	
	PG30D	1	1	1	1	1	/	
	PG60D	/	1	1	1	1	/	
	15D	50000lm	75000lm	100000lm	150000lm	187500lm	225000lm	
	35*85D	54000lm	81000lm	108000lm	162000lm	202500lm	243000lm	
uminous flux (Im, Std.	20*30D	50000lm	75000lm	100000lm	150000lm	187500lm	225000lm	
Dev. ±5%)@CCT=4000K,	30D	54000lm	81000lm	108000lm	162000lm	202500lm	243000lm	
CRI>70Ra, with visor	PG30D	1	1	1	1	1	1	
	PG60D	/	/	1	/	/	/	
JLOR	10005	1	,	, = 0%, @ Luminai		1	1	
CCT				2700K, 3000K, 400				
CRI				Ra70, Ra				
Beam angle				15D/20*30D/30D/35				
Mechanical Data				100/20 000/000/00	000/100000/10000			
P/IK			I	44/1K09 geografing to star	dard EN 60520 and EN 622	40		
			IF	66/IK08, according to star		62		
Vibration resistance		Top view: 0.08m <sup>2</sup> (0.86ft <sup>2</sup> )		3G, conform to st		Top view: 0.1	$4m^2$ (172ft <sup>2</sup> )	
	Type-A (Without visor@25°)	Front view: 0.13m² (1.40ft²)		Top view: 0.12m² (1.29ft²) Front view: 0.21m² (2.26ft²)		Front view: 0.29m <sup>2</sup> (3.12ft <sup>2</sup> )		
	Type-U (Without visor@25°)	Top view: 0.12m <sup>2</sup> (1.29ft <sup>2</sup> )		Top view: 0.20m <sup>2</sup> (2.15ft <sup>2</sup> )		Top view: 0.25m <sup>2</sup> (2.69ft <sup>2</sup> )		
SCx (EPA)		Front view: 0.11m <sup>2</sup> (1.18ft <sup>2</sup> )		Front view: 0.22m <sup>2</sup> (2.37ft <sup>2</sup> )		Front view: 0.31m <sup>2</sup> (3.34ft <sup>2</sup> )		
	Type-A (Reflector, without visor@0°)	Top view: 0.12m² (1.29ft²) Front view: 0.05m² (0.54ft²)		Top view: 0.22m² (2.37ft²) Front view: 0.05m² (0.54ft²)		Top view: 0.32m² (3.44ft²) Front view: 0.05m² (0.54ft²)		
		Front view: 0.05m² (0.54π²)         Front view: 0.05m² (0.54π²)           Top view: 0.15m² (1.61ft²)         Top view: 0.28m² (3.01ft²)		Top view: 0.37m <sup>2</sup> (3.98ft <sup>2</sup> )				
	Type-U (Reflector, without visor@0°)	Front view: 0.06m² (0.65ft²)         Front view: 0.07m² (0.75ft²)				Front view: 0.07m <sup>2</sup> (0.75ft <sup>2</sup> )		
Housing/Materials				Heavy-duty die-cast al	uminum (EN AC-46100)			
Surface treatment		Anti-UV therr	nosetting polyester/80 mid	cron epoxy primer + Anti-U\	/ thermosetting polvester	(for extremely corrosive e	nvironments).	
	1							
Painting				Black, Silver Grey		-4)		
Cable	1		Pi	re-wired with a 30 cm cable		st)		
Mounting				Top fixed/Y	oke mount			
LED								
ED Manufacturer				Seoul (CREE/LUN				
ED model		Seoul 5050/Seoul Z5M4 3535						
	15D(3535Z5M4)	168	252	336	504	630	756	
	35*85D(5050)	168	252	336	504	630	756	
Number of LED	20*30D(3535Z5M4)	168	252	336	504	630	756	
	30D(5050)	168	252	336	504	630	756	
	PG30D(5050)	180	270	360	540	675	810	
	PG60D(5050)	180	270	360	540	675	810	
	15D(3535Z5M4)	755mA	765mA	755mA	742mA	780mA	775mA	
	35*85D(5050)	375mA	383mA	375mA	370mA	385mA	385mA	
Manhine average of the	20*30D(3535Z5M4)	755mA	765mA	755mA	742mA	780mA	775mA	
Working current of	30D(5050)	375mA	383mA	375mA	370mA	385mA	385mA	
sinale LED	300(3030)	373IIIA	30311A	373IIIA	37011A	AIIIGOG		
single LED		750	750	750	770*	7/0	770 4	
single LED	PG30D(5050) PG60D(5050)	352mA 352mA	350mA 350mA	352mA 352mA	350mA 350mA	360mA 360mA	358mA 358mA	

Model		AOK-400WiSF	AOK-600WiSF	AOK-800WiSF	AOK-1200WiSF	AOK-1500WiSF	AOK-1800WiSF		
Other Data									
Lifespan		L90B10 - 52 000 h, @Tq 25°C							
Warranty		5 years (Warranty extension up to 10 years on request)							
Certification		ROHS/CE/CB/For other certificates please request							
Product size	Type-A (Lens)	L599.2*W389.8*H155mm		L607.2*W559.8*H155mm		L729.8*W607.2*H155mm			
	Type-A (Reflector)	L599.2*W304.8*H226mm		L599.2*W474.8*H226mm		L644.8*W607.2*H226.1mm			
(without driver box)	Type-U (Lens)	L706.5*W239.8*H235.5mm		L744.5*W373.1*H344mm		L673.4*W551.1*H424.9mm			
	Type-U (Reflector)	L706.5*W250.2*H201.9mm		L744.5*W443.8*H243.2mm		L714.7*W609.7*H343.2mm			
	Type-A (Lens)	11.1KG		19.04KG		27.14KG			
Net weight	Type-A (Reflector)	11.1KG		18.26KG		26.0KG			
(without driver box)	Type-U (Lens)	12.1KG		20.2KG		28.8KG			
	Type-U (Reflector)	11.71	(G	rs (Warranty extension up to 10 years on red DHS/CE/CB/For other certificates please red L607.2*W559.8*H155mm L599.2*W474.8*H226mm L744.5*W43.8*H226mm L744.5*W443.8*H243.2mm 19.04KG 18.26KG 20.2KG 20.2KG 19.07KG L690*W670*H220mm L690*W670*H220mm L690*W670*H220mm L765*W435*H395mm 23.04KG 22.26KG 24.2KG 23.07KG	27.66KG				
	Type-A (Lens)	L650*W410*H225mm		L690*W670*H220mm		L940*W670*H220mm			
Carton size	Type-A (Reflector)	L650*W410*H225mm		L690*W670*H220mm		L940*W670*H220mm			
(without driver box)	Type-U (Lens)	L725*W355*H225mm		L765*W435*H395mm		L780*W735*H230mm	L870*W735*H230mm		
	Type-U (Reflector)	L725*W355*H225mm		L765*W435*H395mm		L780*W735*H230mm	L870*W735*H230mm		
Gross weight	Type-A (Lens)	15.1KG		23.04KG		31.14KG			
	Type-A (Reflector)	15.1KG		22.26KG		30.00KG			
(without driver box)	Type-U (Lens)	16.1KG		24.2KG		32.8KG			
	Type-U (Reflector)	15.7KG		23.07KG		31.66KG			
Application field			Suitable for stadium, sports field, port, railway station						

## **Photometrics**



AOK-	·		-	
WATTS	VOLTAGE	LED CHIPS		TYPE OF SENSO
400WiSF	NV1=100-277V	S5=Seoul 5050		00=Without Sense
600WiSF	HV1=277-480V	S35=Seoul 3535		PH=Photocell
800WiSF	HV2=220-400V			DV=Dimmable
1200WiSF				
1500WiSF				

\*HV2 is for 1500W-1800W. The above voltage input is the standard default parameter for certificate. Due to different standards in different countries, please confirm the actual local demand first. The power supply of the product can be customized flexibly.

Type A Bracket No.: Module\*1: 1000-00398; Module\*2: 1000-00399; Module\*3: Pls inquire; Type U Bracket No.: Module\*1: 1000-00397; Module\*2: 1000-00400; Module\*3: 1000-00401;

## **Brackets and Options**



Type-A (Top Fixed) Lens

Type-A (Top Fixed) Reflector

## ISF Series Specification Sheet

\*Due to the constant improvements in product development, individual parameters might change. Please refer to our sales or R&D team for most up-to-date content as specifications are subject to change without notice.





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## Dimension **TYPE-A: Top Fixed Installation**

SCx (EPA)@25°:Top view: 0.08m<sup>2</sup> (0.86ft<sup>2</sup>) Front view: 0.13m<sup>2</sup> (1.40ft<sup>2</sup>)





### SCx (EPA)@25°:Top view: 0.12m<sup>2</sup> (1.29ft<sup>2</sup>) Front view: 0.21m<sup>2</sup> (2.26ft<sup>2</sup>)

SCx (EPA)@25°:Top view: 0.16m<sup>2</sup> (1.72ft<sup>2</sup>) Front view: 0.29m<sup>2</sup> (3.12ft<sup>2</sup>)







90°

-155.0mm--

• • •

107.0mm

20

horizontal ±6

## TYPE-A: Top Fixed Installation (With visor)

SCx (EPA)@25°:Top view: 0.18m<sup>2</sup> (1.94ft<sup>2</sup>) Front view: 0.37m<sup>2</sup> (3.98ft<sup>2</sup>)





SCx (EPA)@25°:Top view: 0.21m<sup>2</sup> (2.26ft<sup>2</sup>) Front view: 0.46m<sup>2</sup> (4.95ft<sup>2</sup>)





SCx (EPA)@25°:Top view: 0.24m<sup>2</sup> (2.58ft<sup>2</sup>) Front view: 0.48m<sup>2</sup> (5.17ft<sup>2</sup>)











### ISF Series Specification Sheet

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## Dimension TYPE-U: Yoke Mount

EPA(@25°):Top view: 0.08m<sup>2</sup> (0.86ft<sup>2</sup>) Front view: 0.13m<sup>2</sup> (1.40ft<sup>2</sup>)





EPA(@25°):Top view: 0.20m<sup>2</sup> (2.15ft<sup>2</sup>) Front view: 0.22m<sup>2</sup> (2.37ft<sup>2</sup>)





EPA(@25°):Top view: 0.25m<sup>2</sup> (2.69ft<sup>2</sup>) Front view: 0.31m<sup>2</sup> (3.34ft<sup>2</sup>)







## TYPE-U: Yoke Mount (With visor)

EPA(@25°):Top view: 0.42m<sup>2</sup> (4.52ft<sup>2</sup>) Front view: 0.17m<sup>2</sup> (1.83ft<sup>2</sup>)





EPA(@25°):Top view: 0.55m<sup>2</sup> (5.92ft<sup>2</sup>) Front view: 0.22m<sup>2</sup> (2.37ft<sup>2</sup>)





EPA(@25°):Top view: 0.66m<sup>2</sup> (7.10ft<sup>2</sup>) Front view: 0.31m<sup>2</sup> (3.34ft<sup>2</sup>)





## TYPE-U: Diverbox Integrated with Bracket







## ISF Series Specification Sheet

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+110°

horizontal ±4°

-235.5mm-



+110°







# **Illuminate Your Future**



5 Year Limited Warranty, 10 Year Preferred Warranty. Please consult with our sales for detailed agreement.

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