Up to 180lm/W | IP66 | IK08 | C5 anti-corrosion

LED SPORTS LIGHT

spectro PROFESSIONAL

SP12

Compact design with 180 lm/W efficiency and C5 corrosion resistance

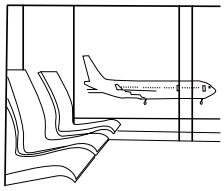
Description

SP12 is specially designed for the illumination of demanding large areas, e.g. sports facilities and industrial zones. It has super high-output with luminous flux packages up to 324,000 lumens. With advanced symmetrical and asymmetrical optics, making it a perfect choice for high mast lighting solutions. Thanks to low copper aluminum alloy body and special powder coating, the luminaire can withstand harsh environments.

• Key Features

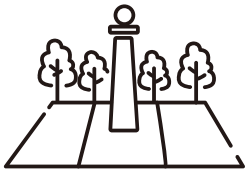
- Modular design 600W 750W 1200W 1500W 1800W.
- Professional and unique optics options could effectively control glare and ensure the good uniformity.
- Excellent anti-corrosion performance.
- Provided with 20KV surge protection devices.
- IP66 and IK08 protection.

Applications



Airport

Tennis courts



Area Site Lighting

Sport Fields

Plazas/Square lighting

FUNCTION TABLE

Suffix	0-10V dimming	DALI	DMX	Example 600W
/T	✓	-	-	SP12-600/T
/D	-	✓	-	SP12-600/D
/X	-	-	✓	SP12-600/X

GENERAL INFORMATION

Housing materials	Low copper aluminum
Mounting bracket materials	SPCC
Housing finish	Special surface treatment + Powdercoating
Mounting bracket finish	Special surface treatment + Powdercoating
Optic materials	Polycarbonate
Fixture color	Gray(RAL870-3)
Electrical class	Class I
CCT selection DIP switch	NO
Power selection DIP switch	NO
Emergency	NO
Sensor	NO
Light source SDCM	<5
Impact resistance	IK08
Ingress protection	IP66
Category of corrosion	C5 (ISO 9223:2012)
Certification	CE/ROHS/CB/ENEC/SAA
Warranty(years)	5

TECHNICAL DATA

Code		SP12-600	SP12-750	SP12-1K2	SP12-1K5	SP12-1K8
Nominal wattage ±5%		600W	750W	1200W	1500W	1800W
Driver type		Constant Current (CC)				
Control		0-10V, DALI, DMX			DALI, DMX	
Nominal input voltage(V)		200-480Vac, 50/60Hz				
Power factor(at full load)		>0.9				
Flicker factor		<1%				
THD		<20%@200~480Vac				
Surge protection		L-N: 10KV, L/N-E: 20KV				
Light source		LED 3737/ LED 5050				
Color rendering inde		Ra70/Ra80				
General luminous efficacy (lm/W)	LED 3737	165lm/W@ Ra70	155lm/W@ Ra70	165lm/W@ Ra70	155lm/W@ Ra70	165lm/W@ Ra70
	LED 5050	180lm/W@ Ra70	175lm/W@ Ra70	180lm/W@ Ra70	175lm/W@ Ra70	180lm/W@ Ra70
Color temperature		1-CCT:3000K/4000K/5700K				
Luminous flux (lm) ±10% Ra70	LED 3737	93000-99000	108750-116250	186000-198000	217500-232500	279000-297000
	LED 5050	103800-108000	125250-131250	207600-216000	250500-262500	311400-324000
Luminous flux (lm) ±10% Ra80	LED 3737	85800-93000	101250-109500	171600-186000	202500-219000	257400-279000
	LED 5050	96000-100800	115500-123000	192000-201600	231000-246000	288000-302400
Beam angle	LED 3737	F16010X/F16011X/F16013X/F16014X				
	LED 5050	F21801Z/F21802Z/F21803Z				
Luminaire windage area (SCx)	at 0°	0.04m²	0.04m²	0.04m²	0.04m²	0.04m²
	at 15°	0.07m²	0.07m²	0.11m²	0.11m²	0.15m²
	at 30°	0.10m²	0.10m²	0.18m²	0.18m²	0.26m²
	at 45°	0.12m²	0.12m²	0.24m²	0.24m²	0.35m²
	at 60°	0.14m²	0.14m²	0.28m²	0.28m²	0.42m²
	at 75°	0.12m²	0.12m²	0.24m²	0.24m²	0.38m²
Luminaire Windage Area(SCx) with visor SP12-L131	at 0°	0.12m²	0.12m²	0.12m²	0.12m²	0.12m²
	at 15°	0.12m²	0.12m²	0.15m²	0.15m²	0.19m²
	at 30°	0.10m²	0.10m²	0.18m²	0.18m²	0.26m²
	at 45°	0.12m²	0.12m²	0.24m²	0.24m²	0.35m²
	at 60°	0.12m²	0.12m²	0.24m²	0.24m²	0.35m²
	at 75°	0.12m²	0.12m²	0.24m²	0.24m²	0.38m²

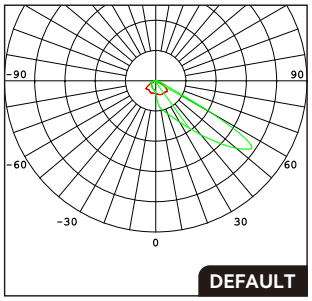
TECHNICAL DATA

Luminaire Windage Area(SCx) with visor SP12-L78	at 0°	0.09m²	0.09m²	0.09m²	0.09m²	0.09m²
	at 15°	0.07m²	0.07m²	0.12m²	0.12m²	0.15m²
	at 30°	0.10m²	0.10m²	0.18m²	0.18m²	0.26m²
	at 45°	0.12m²	0.12m²	0.24m²	0.24m²	0.35m²
	at 60°	0.12m²	0.12m²	0.24m²	0.24m²	0.35m²
	at 75°	0.14m²	0.14m²	0.28m²	0.28m²	0.42m²
Operating temperature	LED 3737	-30°C to +40°C@ SP12-750, SP12-1K5@3737 -30°C to +50°C@ Other confiquratidns				
	LED 5050					
Lifespan of LED 3737 @Ta=25°C(hrs)		95,000-L90B10				
		138,000-L80B10				
		138,000-L70B10				
Lifespan of LED 5050 @Ta=25°C(hrs)		60,000-L90B10				
		150,000-L80B10				
		240000-L70B10				

OPTICS

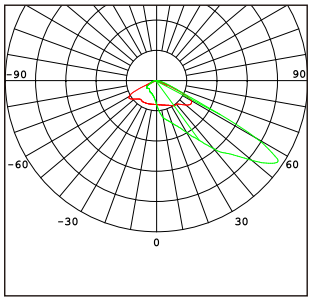
LED3737 optics

RECOMMENDED

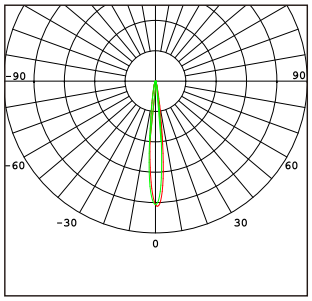


DEFAULT

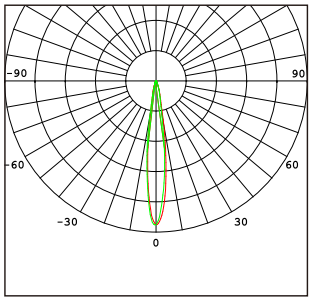
Asymmetrical intense 56°
F16014X



Asymmetrical intense 56°
F16013X

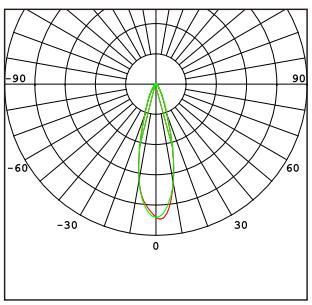


Symmetrical 11°
F16010X

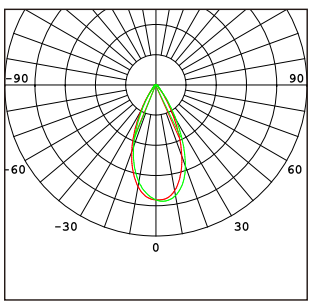


Symmetrical 15°
F16011X

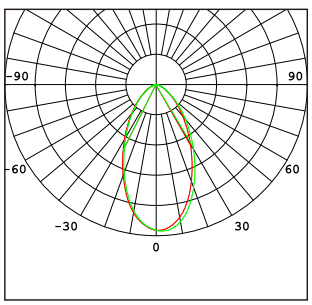
LED5050 optics



Symmetrical 30°
F21801Z



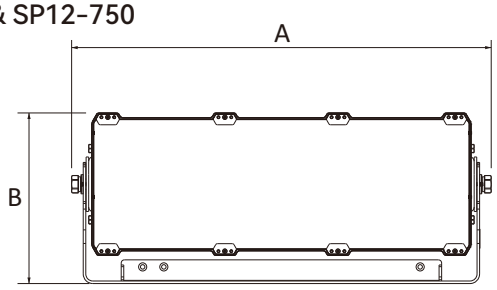
Symmetrical 45°
F21802Z

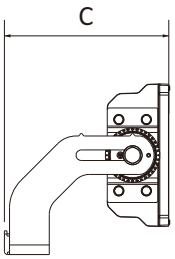


Symmetrical 60°
F21803Z

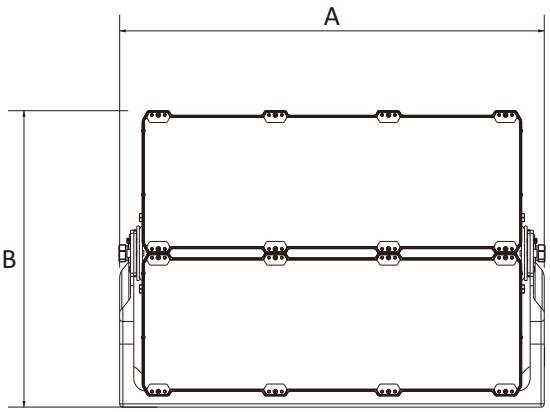
MEASUREMENT

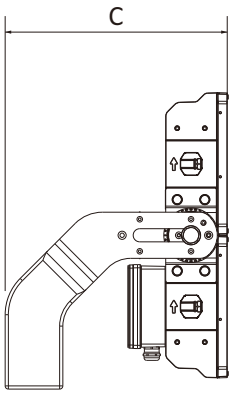
SP12-600 & SP12-750



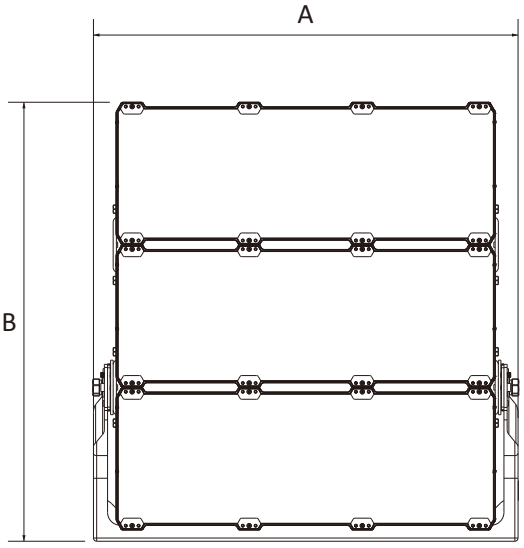


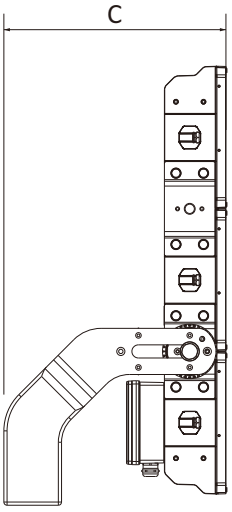
SP12-1K2 & SP12-1K5



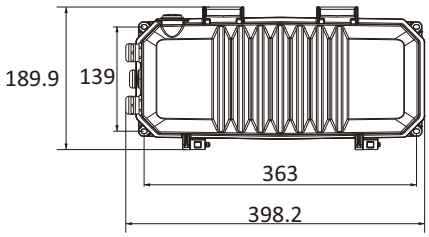


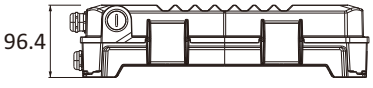
SP12-1K8



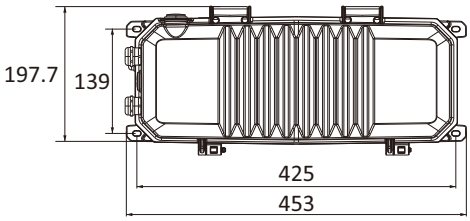


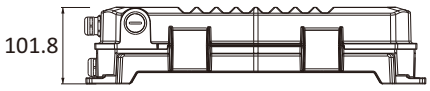
Driver box: 600W/750W



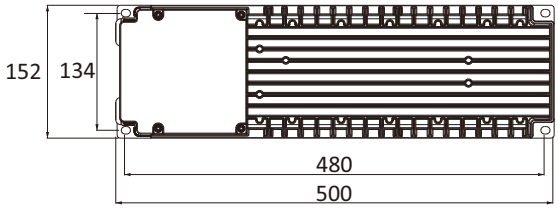


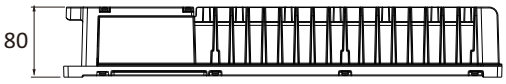
Driver box: 1200W





Driver box: 1500W/1800W





Product code		Luminaire dimensions AxBxC(mm)	Product weight(kg) ±6%	Package weight(kg) ±6%	Carton size(mm)	Qty/CTN
			N.W/PC	G.W/CTN		
SP12-600	Lamp body	655x266x257	11.5	17.4	695x300x280	1
	Driver box	398.2x189.9x96.4	3.6			
SP12-750	Lamp body	655x266x257	11.5	17.8	695x300x280	
	Driver box	398.2x189.9x96.4	4			
SP12-1K2	Lamp body	663x462x347	23.6	33.7	705x670x295	
	Driver box	453x197.7x101.8	5			
SP12-1K5	Lamp body	663x462x347	23.6	35.1	705x670x295	
	Driver box	500x152x80	6.37			
SP12-1K8	Lamp body	663x685x347	31.9	44.5	785x705x320	
	Driver box	500x152x80	6.37			

MOUNTING OPTIONS

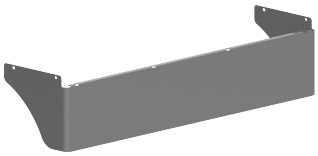
Bracket mounting

ACCESSORIES

Precision aiming device (multi module)

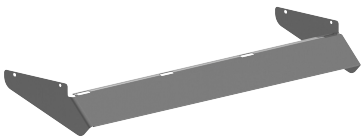
Code	Product weight(kg) ±6%		Carton size(mm)	Qty/ CTN
	N.W/PC	G.W/PC		
BC-S12-03	0.57	0.77	210x150x105mm	1

This short front visor is designed to control up light for symmetric optics such as F21801Z, F21802Z, F21803Z, F16010X, F16011X.



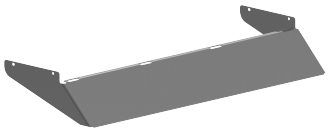
Code	Product weight(kg) ±6%		Package weight(kg) ±6%		Carton size(mm)	Qty/ CTN
	N.W/PC	G.W/PC	N.W/CTN	G.W/CTN		
SP12-L131	0.8	0.8	9.6	11	610x485x285	12

This short front visor is designed to control up light for asymmetric optics such as F16013X, F16014X.



Code	Product weight(kg) ±6%		Package weight(kg) ±6%		Carton size(mm)	Qty/ CTN
	N.W/PC	G.W/PC	N.W/CTN	G.W/CTN		
SP12-L78	0.5	0.5	2.5	3.5	605x365x240	5

This long front visor is designed to control up light for asymmetric optics. It can be used along with the lens F16013X, F16014X.



Code	Product weight(kg) ±6%		Package weight(kg) ±6%		Carton size(mm)	Qty/ CTN
	N.W/PC	G.W/PC	N.W/CTN	G.W/CTN		
SP12-L90	0.65	0.65	3.25	4.1	360x235x615	5

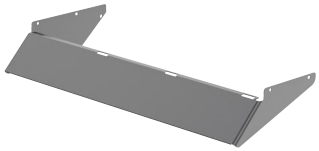
This long rear visor is designed to control back light for asymmetric optics. It can be used in combination with visor SP12-87, SP12-L88, and SP12-89. The visor is versatile, fitting both single and multiple module setups, and is intended for installation on the bottom module position.

Code	Product weight(kg) ±6%		Package weight(kg) ±6%		Carton size(mm)	Qty/ CTN
	N.W/PC	G.W/PC	N.W/CTN	G.W/CTN		
SP12-L157	0.86	0.86	1.72	2.32	615x235x170	2

This front and side visor is designed for asymmetric optics to control light from above and both sides. It is not a standalone component and must be used in conjunction with the SP12-L157. The unit is compatible with both single and multiple module configurations and should be installed in the bottom module position

Code	Product weight(kg) ±6%		Package weight(kg) ±6%		Carton size(mm)	Qty/ CTN
	N.W/PC	G.W/PC	N.W/CTN	G.W/CTN		
SP12-L89	0.74	0.74	3.7	5.2	485x280x620	5

This front and right-side visor is designed for asymmetric optics to control light from above and the right side. It is not a standalone unit and must be paired with the SP12-L157. Compatible with both single and multiple module setups, it is intended for installation in the bottom module position.

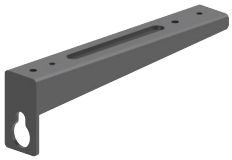
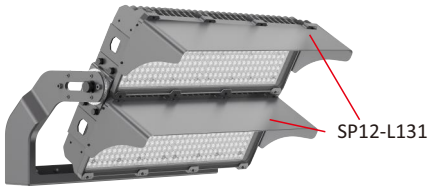
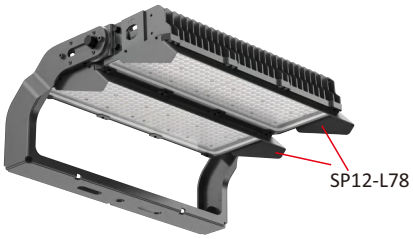
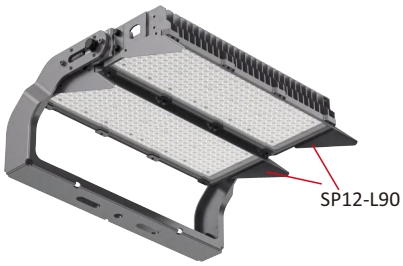
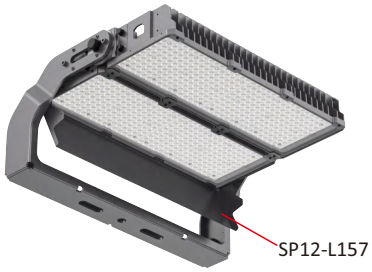
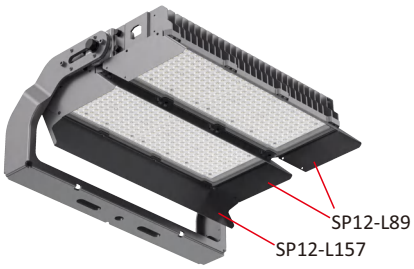
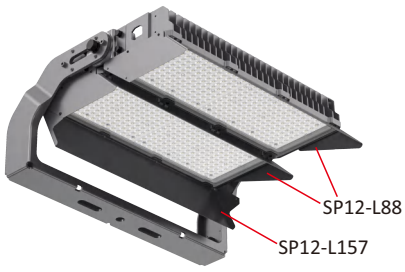
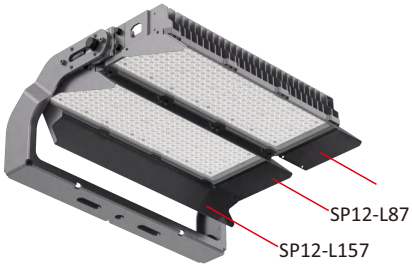


Code	Product weight(kg) ±6%		Package weight(kg) ±6%		Carton size(mm)	Qty/ CTN
	N.W/PC	G.W/PC	N.W/CTN	G.W/CTN		
SP12-L88	0.68	0.68	3.4	4.9	485x280x620	5

This front and left-side visor is designed for asymmetric optics to control light from above and the left side. It must be used in conjunction with the SP12-L157 and is not a standalone component. Compatible with both single and multiple module configurations, it is installed in the bottom module position

Code	Product weight(kg) ±6%		Package weight(kg) ±6%		Carton size(mm)	Qty/ CTN
	N.W/PC	G.W/PC	N.W/CTN	G.W/CTN		
SP12-L87	0.68	0.68	3.4	4.9	485x280x620	5

Stirrup mounting bracket (fix driver to luminaire's bracket)



Code	Product weight(kg) ±6%		Carton size(mm)	Qty/ CTN
	N.W/PC	G.W/PC		
BC-S02-05	0.26	0.27	Pack with lamp	2