



DIRECT SPORTS LIGHTING



LED SPORTS LIGHT

APEX SP04 G2.5

Compact, high-performance design with advanced asymmetric optics, ideal for all sporting applications.



Description

The SP04 series LED sports light delivers 54,000lm to 290,000lm, providing a flexible solution for medium and large stadium lighting. Its modular design features tilt-adjustable single LED modules for precise beam control. With specialized materials and surface treatment, the SP04 offers exceptional corrosion resistance, making it an excellent choice for demanding environments like harbor lighting.

Key Features

- Modular design 400W 500W 600W 800W 1000W 1200W 1500W 1800W.
- Minimal backlight, zero up-light, and minimized spill light.
- 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



Sport Fields



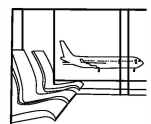
Tennis Court



Plazas/Square lighting



Security Lighting



Airport



Area Site Lighting

FUNCTION TABLE

Suffix	0-10V dimming	DALI	DMX	Example 600W
/T	✓	-	-	SP04-600/T G2.5
/D	-	✓	-	SP04-600/D G2.5
/DX	-	-	✓	SP04-600/DX G2.5

GENERAL INFORMATION

Housing materials	Aluminum alloy
Mounting bracket materials	SPCC
Housing finish	Special surface treatment + Powdercoating
Mounting bracket finish	Special surface treatment + Powdercoating
Optic materials	Polycarbonate (PC)
Fixture color	Black (RAL9017)
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	C4 (ISO 9223:2012)
Certification	CE/CB/ENEC/RoHS
Warranty(years)	5

TECHNICAL DATA

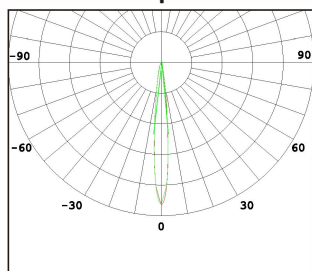
Code		SP04-400 G2.5	SP04-500 G2.5	SP04-600 G2.5	SP04-800 G2.5	SP04-1K0 G2.5	SP04-1K2 G2.5	SP04-1K5 G2.5	SP04-1K8 G2.5
Nominal wattage ±5%		400	500	600	800	1000	1200	1500	1800
Driver type		Constant Current (CC)							
Control		0-10V, DALI D4i, DMX						DALI D4i, DMX	
Nominal input voltage(V)		200-480VAC, 50/60 Hz							
Power factor(at full load)		>0.95							
Flicker factor		<1%							
THD		<10%@277V							
Surge protection		L-N: 10KV, L/N-E: 20KV							
Light source		LED 3737/ LED 5050							
Color rendering inde		Ra70/Ra80							
General luminous efficacy(lm)	LED 3737	145lm/W @5700K Ra 70							
	LED 5050	160lm/W @5700K Ra 70							
Color temperature		1-CCT: 3000K, 4000K, 5000K, or 5700K							
Luminous flux(lm) ±10% Ra70	1-CCT	LED 3737: 54400-57600lm	LED 3737: 67000-71000lm	LED 3737: 84000-89400lm	LED 3737: 111200-119200lm	LED 3737: 138000-149000lm	LED 3737: 174000-186000lm	LED 3737: 222000-238500lm	LED 3737: 261000-279000lm
	1-CCT	LED 5050: 62000-64000lm	LED 5050: 78000-80500lm	LED 5050: 93600-96600lm	LED 5050: 124000-128800lm	LED 5050: 157000-162000lm	LED 5050: 188400-194400lm	LED 5050: 235500-244500lm	LED 5050: 282600-295200lm
Luminous flux(lm) ±10% Ra80	1-CCT	LED 3737: 48960-51840lm	LED 3737: 60300-63900lm	LED 3737: 75600-80460lm	LED 3737: 100080-107280lm	LED 3737: 124200-133200lm	LED 3737: 155520-167400lm	LED 3737: 201150-214650lm	LED 3737: 234900-251100lm
	1-CCT	LED 5050: 55800-57600lm	LED 5050: 70200-72450lm	LED 5050: 84240-86940lm	LED 5050: 111600-115920lm	LED 5050: 141300-145800lm	LED 5050: 169560-174960lm	LED 5050: 211950-220050lm	LED 5050: 254340-265580lm
Beam angle	LED 3737	F04002X/F04011X/F04015X/F04045X/F04001X/F04013X/F04014X							
	LED 5050	F04001Z/F04003Z/F04004Z/F04006Z/F04022Z							
Luminaire windage area(SCx) (m²)	at 0°	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03
	at 15°	0.04	0.05	0.05	0.07	0.09	0.09	0.12	0.13
	at 30°	0.05	0.07	0.07	0.11	0.13	0.15	0.19	0.22
	at 45°	0.07	0.08	0.09	0.15	0.18	0.20	0.27	0.31
	at 60°	0.08	0.09	0.11	0.17	0.20	0.24	0.30	0.33
	at 75°	0.08	0.10	0.12	0.19	0.21	0.25	0.35	0.38
	at 90°	0.09	0.11	0.12	0.19	0.22	0.26	0.34	0.40
Luminaire Windage Area(SCx) with visor SP04-L130 (m²)	at 0°	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
	at 15°	0.11	0.10	0.11	0.12	0.13	0.14	0.15	0.16
	at 30°	0.09	0.09	0.10	0.14	0.15	0.16	0.20	0.23
	at 45°	0.09	0.08	0.11	0.17	0.17	0.22	0.25	0.28
	at 60°	0.09	0.10	0.11	0.20	0.21	0.24	0.29	0.33
	at 75°	0.10	0.11	0.12	0.22	0.23	0.25	0.32	0.37
	at 90°	0.11	0.11	0.12	0.23	0.24	0.26	0.34	0.40

TECHNICAL DATA

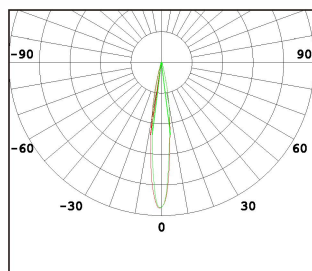
Luminaire Windage Area(SCx) with visor SP04-L80 (m²)	at 0°	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
	at 15°	0.08	0.08	0.08	0.11	0.12	0.14	0.15	0.19
	at 30°	0.08	0.08	0.10	0.13	0.15	0.16	0.20	0.23
	at 45°	0.08	0.09	0.10	0.15	0.17	0.22	0.27	0.32
	at 60°	0.09	0.10	0.12	0.18	0.20	0.25	0.31	0.36
	at 75°	0.10	0.10	0.12	0.19	0.22	0.27	0.33	0.41
	at 90°	0.11	0.11	0.12	0.21	0.25	0.31	0.38	0.46
Operating temperature(°C)	LED 3737	-30 to +40							
	LED 5050	-30 to +50							
Lifespan of LED 3737 @Ta=25°C		100,000-L90B10							
		138,000-L80B10							
		138,000-L70B10							
Lifespan of LED 5050 @Ta=25°C		60,000-L90B10							
		150,000-L80B10							
		240,000-L70B10							

OPTICS

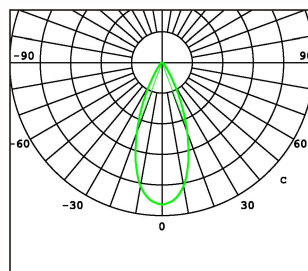
LED3737 optics



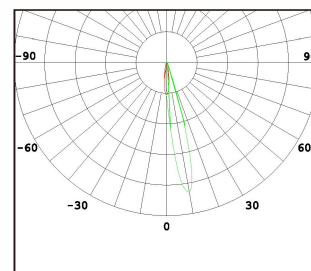
Symmetrical 10°
F04011X



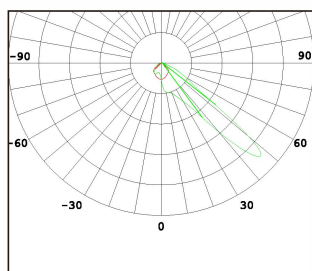
Symmetrical 14.4°
F04015X



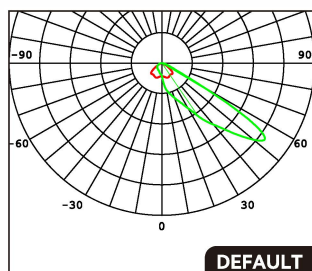
Asymmetrical intense 42°
F04045X



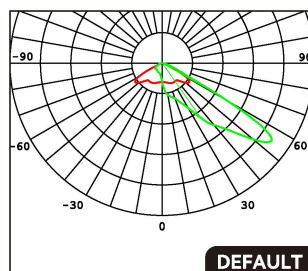
Asymmetrical intense 9.5°
F04002X



Asymmetrical intense 50°
F04001X

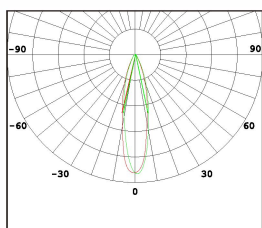


Asymmetrical intense 54°
F04013X

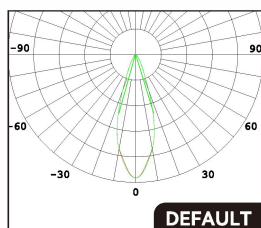


Asymmetrical intense 54°
F04014X

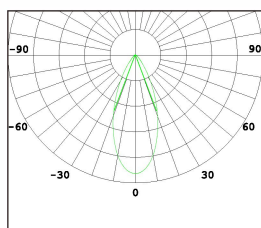
LED5050 optics



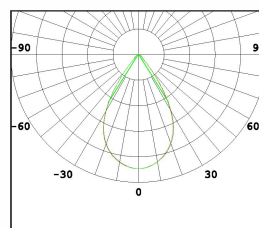
Symmetrical 22°
F04022Z



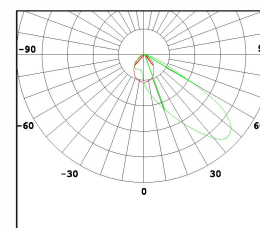
Symmetrical 30°
F04003Z



Symmetrical 45°
F04004Z



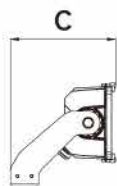
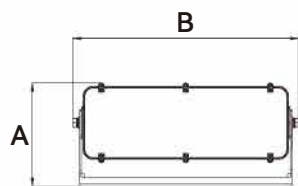
Symmetrical 60°
F04006Z



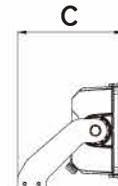
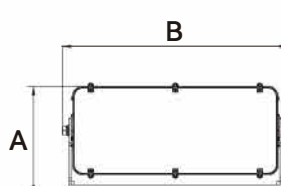
Asymmetrical
intense 45°
F04001Z

MEASUREMENT

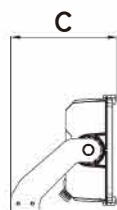
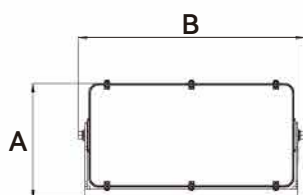
400W



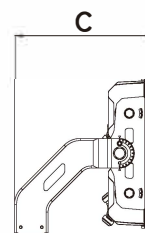
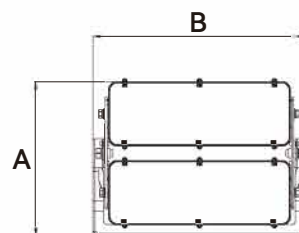
500W



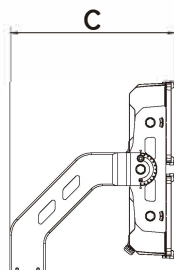
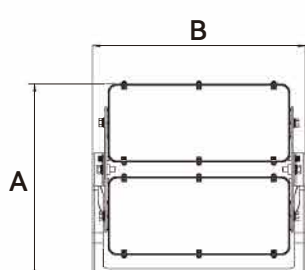
600W



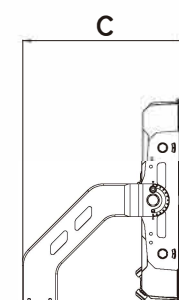
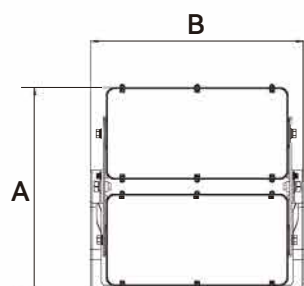
800W



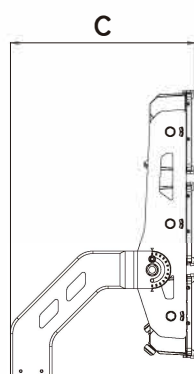
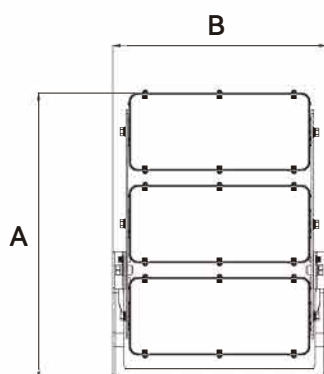
1000W



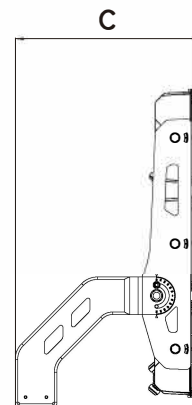
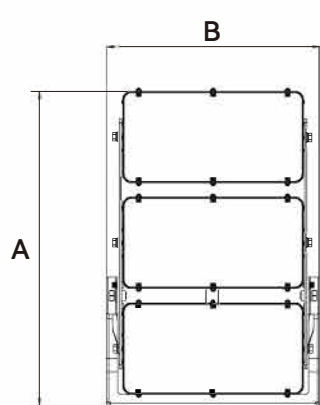
1200W



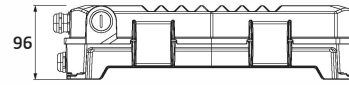
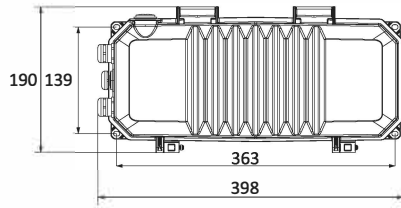
1500W



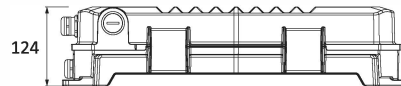
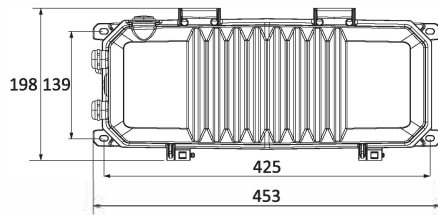
1800W



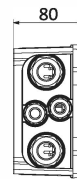
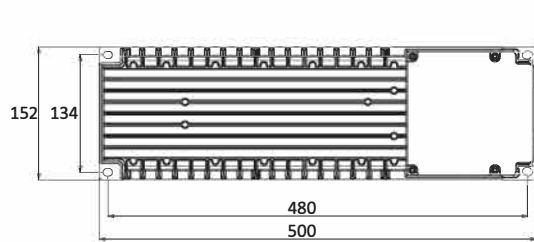
NFM-500S200GG(500W)
NEM-680S270GG(600W)
NEM-880S350GG(800W)



NFM-1K2S480GG(800-1200W)



NFS-1K8T210BC(1500-1800W)



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		
SP04-400 G2.5	220x479x224	Lamp body: 6.3 Driver box: 3.5	10.5	510x355x270mm	1
SP04-500 G2.5	228x479x224	Lamp body: 7.0 Driver box: 3.5	11.5	510x370x270mm	
SP04-600 G2.5	245x479x224	Lamp body: 7.8 Driver box: 4.0	13.0	520x400x280mm	
SP04-800 G2.5	368x510x332	Lamp body: 13.7 Driver box: 4.5	20.4	600x570x300mm	
SP04-1K0G 2.5	463x510x394	Lamp body: 16.4 Driver box: 5.3	24.7	715x610x310mm	
SP04-1K2 G2.5	496x510x394	Lamp body: 18.8 Driver box: 5.3	27.3	750x610x310mm	
SP04-1K5 G2.5	691x515x444	Lamp body: 24.8 Driver box: 6.4	35.4	960x610x310mm	
SP04-1K8 G2.5	757x515x444	Lamp body: 28 Driver box: 6.4	38.6	1025x610x310mm	

MOUNTING OPTIONS



ACCESSORIES

Aiming device with bracket for 400W to 600W single module



Code	Product weight(kg)±6%		Package weight(kg)±6%		Carton size	Qty/ CTN
	N.W/PC	G.W/CTN	N.W/PC	G.W/CTN		
BC-S04-10	0.65	0.8			240x190x90mm	1

Aiming device with bracket for 800W to 1800W multiple modules



Code	Product weight(kg)±6%		Package weight(kg)±6%		Carton size	Qty/ CTN
	N.W/PC	G.W/CTN	N.W/PC	G.W/CTN		
BC-S04-04	0.55	0.7			106x89x71mm	1

Front Visor for Asymmetric Optic to control upward light, Suitable for lens:
F04001X, F04001Z, F04013X, F04014X



Code	Product weight(kg)±6%		Package weight(kg)±6%		Carton size	Qty/ CTN
	N.W/PC	G.W/CTN	N.W/PC	G.W/CTN		
SP04-L39	0.54	2.7	0.66	4.5	450x280x250mm	5

Front Visor For Symmetric Optic to control upward light, Suitable for lens:
F04002X, F04011X, F04015X, F04045X, F04022Z, F04003Z, F04004Z, F04006Z



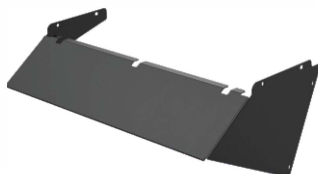
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SP04-L130	0.6	6.3	0.73	7.8	680x190x455mm	10

Long Rear Visor for Asymmetric Optic to control back light, Suitable for lens: F04001X, F04001Z, F04013X, F04014X



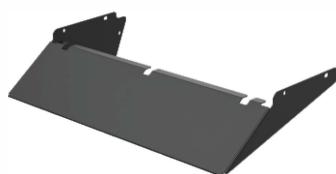
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SP04-L175	0.7	3.5	-	4.40	465x340x235mm	5

Front And Long Left Visor for Asymmetric Optic to control front and left upward light, Suitable for lens: F04001X, F04001Z, F04013X, F04014X, Suitable for 400W modules.



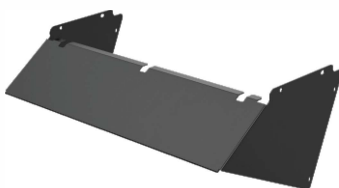
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SP04-L164	0.69	1.38	-	1.90	460x270x190mm	2

Front And Long Right Visor for Asymmetric Optic to control front and right upward light, Suitable for lens: F04001X, F04001Z, F04013X, F04014X, Suitable for 400W modules.



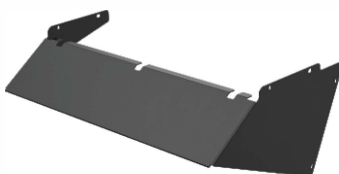
Code	Product weight(kg)±6%		Package weight(kg)±6%		Carton size	Qty/ CTN
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SP04-L165	0.69	1.38	-	1.90	460x270x190mm	2

Front And Long Left And Right Visor for Asymmetric Optic to control front and side upward light, Suitable for lens: F04001X, F04001Z, F04013X, F04014X, Suitable for 400W modules.



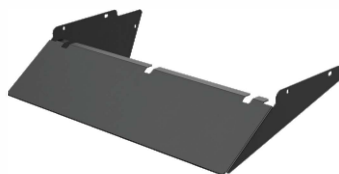
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SP04-L166	0.82	1.64	-	2.20	460x270x190mm	2

Front And Long Left Visor for Asymmetric Optic to control front and left upward light, Suitable for lens: F04001X, F04001Z, F04013X, F04014X, Suitable for 500W modules.



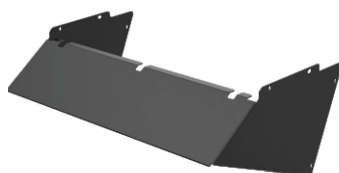
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SP04-L167	0.91	1.82	-	2.50	460x315x190mm	2

Front And Long Right Visor for Asymmetric Optic to control front and right upward light, Suitable for lens: F04001X, F04001Z, F04013X, F04014X, Suitable for 500W modules.



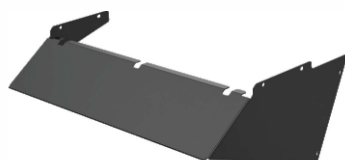
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SP04-L168	0.91	1.82	-	2.50	460x315x190mm	2

Front And Long Left And Right Visor for Asymmetric Optic to control front and side upward light, Suitable for lens: F04001X, F04001Z, F04013X, F04014X, Suitable for 500W modules.



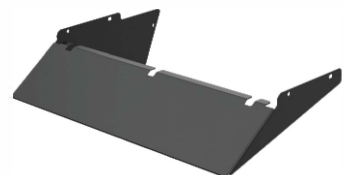
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SP04-L169	1.16	2.32	-	3.00	460x315x190mm	2

Front And Long Left Visor for Asymmetric Optic to control front and left upward light, Suitable for lens: F04001X, F04001Z, F04013X, F04014X, Suitable for 600W modules.



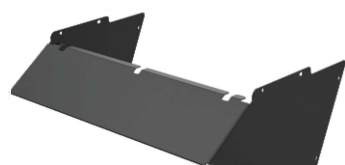
Code	Product weight(kg)±6%		Package weight(kg)±6%		Carton size	Qty/CTN
	N.W/PC	N.W/CTN	G.W/PC	G.W/CTN		
SP04-L172	1.05	2.10	-	2.8	460x355x190mm	2

Front And Long Right Visor for Asymmetric Optic to control front and right upward light, Suitable for lens: F04001X, F04001Z, F04013X, F04014X, Suitable for 600W modules.



Code	Product weight(kg)±6%		Package weight(kg)±6%		Carton size	Qty/CTN
	N.W/PC	N.W/CTN	G.W/PC	G.W/CTN		
SP04-L173	1.05	2.10	-	2.8	460x355x190mm	2

Front And Long Left And Right Visor for Asymmetric Optic to control front and side upward light, Suitable for lens: F04001X, F04001Z, F04013X, F04014X, Suitable for 600W modules.



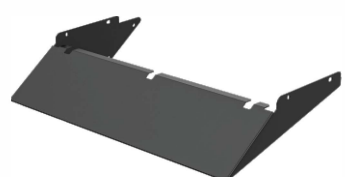
Code	Product weight(kg)±6%		Package weight(kg)±6%		Carton size	Qty/CTN
	N.W/PC	N.W/CTN	G.W/PC	G.W/CTN		
SP04-L174	1.26	2.52	-	3.22	460x355x190mm	2

Front And Short Left Visor for Asymmetric Optic to control front and left upward light, Suitable for lens: F04001X, F04001Z, F04013X, F04014X, Suitable for 400W/500W modules.



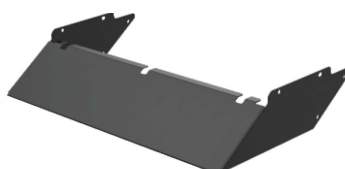
Code	Product weight(kg)±6%		Package weight(kg)±6%		Carton size	Qty/CTN
	N.W/PC	N.W/CTN	G.W/PC	G.W/CTN		
SP04-L77	0.72	3.60	-	4.50	460x430x290mm	5

Front And Short Right Visor for Asymmetric Optic to control front and right upward light, Suitable for lens: F04001X, F04001Z, F04013X, F04014X, Suitable for 400W/500W modules.



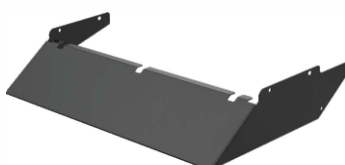
Code	Product weight(kg)±6%		Package weight(kg)±6%		Carton size	Qty/CTN
	N.W/PC	N.W/CTN	G.W/PC	G.W/CTN		
SP04-L78	0.72	3.60	-	4.50	460x430x290mm	5

Front And Short Left And Right Visor for Asymmetric Optic to control front and side upward light, Suitable for lens: F04001X, F04001Z, F04013X, F04014X, Suitable for 400W/500W modules.



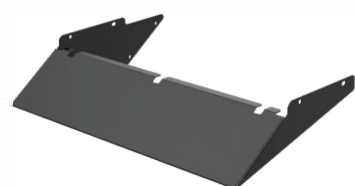
Code	Product weight(kg)±6%		Package weight(kg)±6%		Carton size	Qty/CTN
	N.W/PC	N.W/CTN	G.W/PC	G.W/CTN		
SP04-L79	0.86	4.30	-	5.20	460x430x290mm	5

Front And Short Left Visor for Asymmetric Optic to control front and left upward light, Suitable for lens: F04001X, F04001Z, F04013X, F04014X, Suitable for 600W modules.



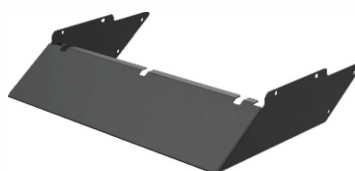
Code	Product weight(kg)±6%		Package weight(kg)±6%		Carton size	Qty/CTN
	N.W/PC	N.W/CTN	G.W/PC	G.W/CTN		
SP04-L82	0.83	4.15	-	5.15	460x430x325mm	5

Front And Short Right Visor for Asymmetric Optic to control front and right upward light, Suitable for lens: F04001X, F04001Z, F04013X, F04014X, Suitable for 600W modules.

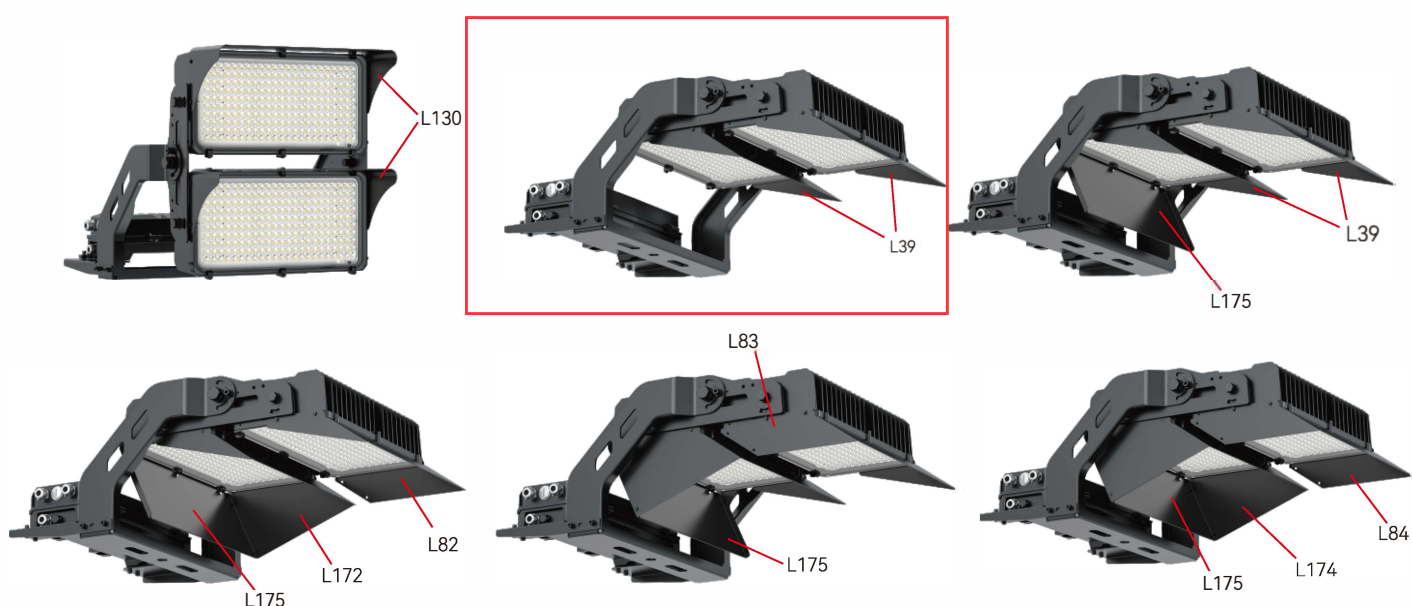


Code	Product weight(kg)±6%		Package weight(kg)±6%		Carton size	Qty/CTN
	N.W/PC	N.W/CTN	G.W/PC	G.W/CTN		
SP04-L83	0.83	4.15	-	5.15	460x430x325mm	5

Front And Short Left And Right Visor for Asymmetric Optic to control front and side upward light, Suitable for lens: F04001X, F04001Z, F04013X, F04014X, Suitable for 600W modules.



Code	Product weight(kg)±6%		Package weight(kg)±6%		Carton size	Qty/CTN
	N.W/PC	N.W/CTN	G.W/PC	G.W/CTN		
SP04-L84	0.98	4.90	-	5.90	460x430x325mm	5



Stirrup mounting bracket, fix driver to luminaire's bracket (2pcs/set) For 400W to 1200W



Code	Product weight(kg)±6%	Package weight(kg)±6%	Carton size	Qty/CTN
	N.W/PC	G.W/CTN		
BC-S04-09	1.12	1.22	Pack with lamp	1

Stirrup mounting bracket, fix driver to luminaire's bracket (2pcs/set) For 1500W to 1800W



Code	Product weight(kg)±6%	Package weight(kg)±6%	Carton size	Qty/CTN
	N.W/PC	G.W/CTN		
BC-S04-11	0.73	0.83	Pack with lamp	1

Magnetic digital angle finder for measuring the angle of sports floodlight during installation



Code	Product weight(kg)±6%	Package weight(kg)±6%	Carton size	Qty/CTN
	N.W/PC	G.W/CTN		
DIA00-01	0.2	0.25	/	1

Clamp mount bracket, 2pcs/set



Code	Product weight(kg)±6%	Package weight(kg)±6%	Carton size	Qty/ CTN
	N.W/PC	G.W/CTN		
BC-S02-04	0.78	0.85	151x150x116mm	1

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