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DEDICATED TO
ACHIEVING PROFESSIONALISM

FOCUS ON
INDUSTRIAL LIGHTING & ROAD LIGHTING





8 Major
Marketing Networks

15+ Years Of
Project Experience

300+ Successful Case

10,000+^{m²} Production Area

ABOUT NAPO

Guangdong HIPO lighting Co., LTD. (hereinafter referred to as the "HIPO"), founded in 2011, focus on outdoor lighting, industrial lighting, road & tunnel lighting, with NAPO as its product brand, is committed to provide customers with technical innovation, safe and reliable lighting products, lighting control system and perfect service.

The company has professional design, R&D, production and sales capabilities, and has been awarded the title of High-tech Enterprise, Specialized & sophisticated Small and Medium-sized Enterprises (SMEs) and Innovative Small and Medium-sized Enterprises (SMEs).

HIPO adheres to innovation and customer-centered philosophy.

In terms of landscape lighting, HIPO mainly produces wall washer, dots and pixels, linear light, and complementary products for project's customized needs. In terms of functional lighting, many series of products have been successfully developed and mass-produced, such as highbay light, solar street light, AC and solar flood light, road & tunnel lights, low-level lighting systems. At the same time, HIPO has established an ETO (Engineering to Order) team to cope with customized product or rapid prototypes.

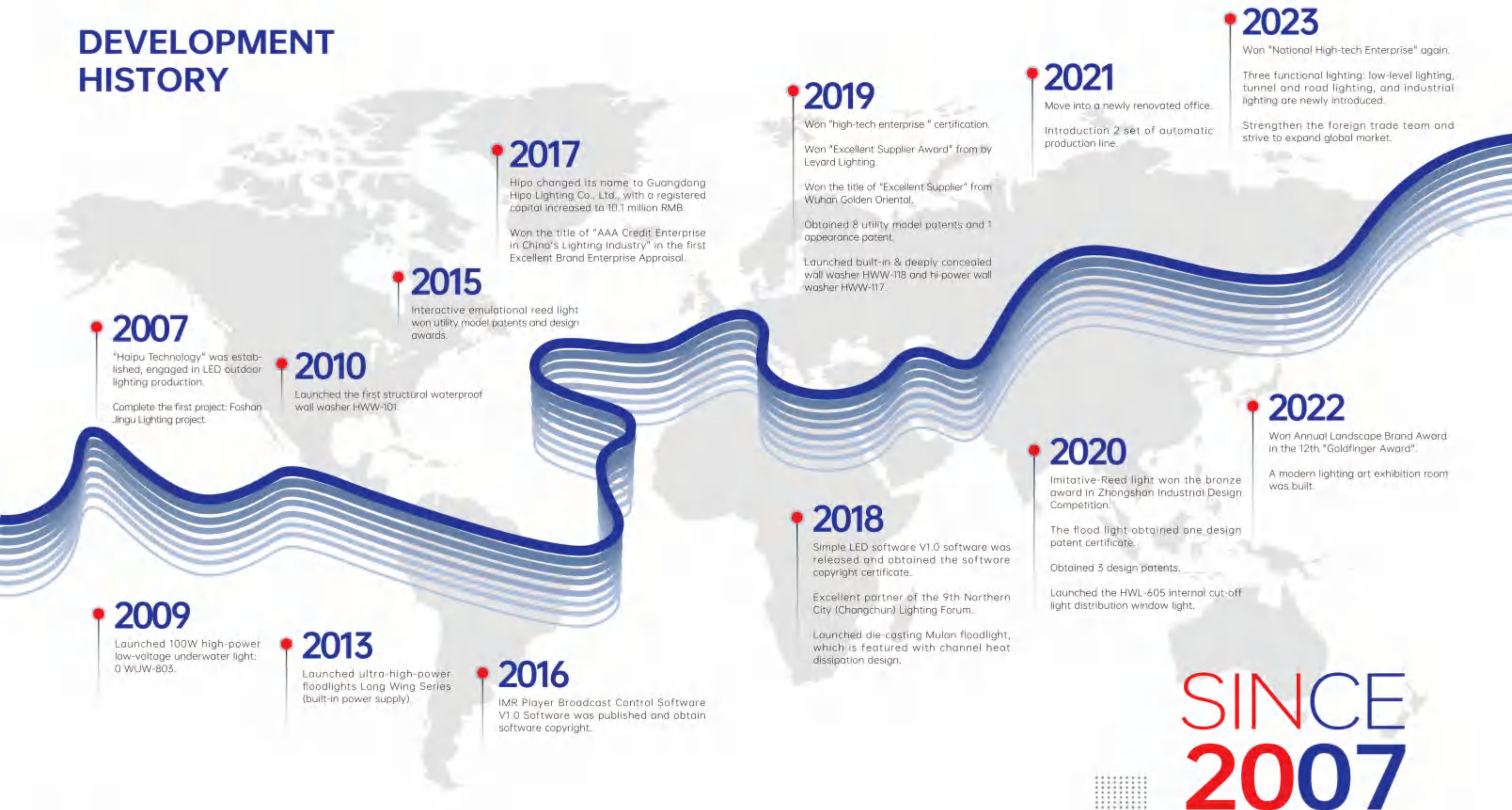
For more than ten years, HIPO has accumulated rich experience in large and medium-sized projects. According to the company's strategic development needs, it has established five offices in mainland China for nation-wide business and one office in Shenzhen city for oversea business development.

HIPO Lighting's headquarter and manufacturing base is located in Zhongshan city, Guangdong province. The factory covers an area of 10,000 square meters, with 3 workshops and 8 production lines, including SMT dust-free workshop, independent die-casting workshop, and harmless workshop meeting RoHS 2.0 standard. It has obtained ISO9001:2015 quality management system certification, ISO14001:2015 environmental management system certification, and ISO45001:2018 occupational health and safety management system certification. The whole line of products has passed CCC or CQC, CE certification, and HIPO will apply for more foreign certification on demands.

HIPO, dedicated to achieving professionalism, will be your best and most credible business partner.



DEVELOPMENT HISTORY



SINCE
2007



Dedicated To Achieving Professionalism

Focus On Industrial Lighting & Road Lighting

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PRODUCTION CAPACITY

After 15 years of development, a mature and efficient production and quality control system has been established. The safe and efficient supply chain, automatic / semi-automatic equipments can ensure on-time delivery. Ensure product quality from design and product testing; meet quality standards at all levels.



10,000m² Production Area

3 Workshops

8 Production Lines



Industrial Lighting Workshop

That Complies With RoHs2.0 Requirements



Full die-casting Workshop

Easier to control product quality and delivery time

SMT Fully Automatic Production Equipment

Fully auto production equipment



Automatic Plate Loading Machine:

At the beginning of the SMT production line to transport multi-sided PCB boards. After receiving the signal, the PCB boards are pushed out one by one from the PCB material rack.



Fully Automatic Solder Paste Printing Machine:

Solder paste is printed on the PCB board, which has a great impact on the quality. The quality of printing directly affects the component placement accuracy and reflow soldering effect in the subsequent process.



SPI(Solder Paste Inspection) Machine:

Detection items: volume, area, height, XY offset, shape; Detection defect types: missed printing, more tin, less tin, connected tin, offset, poor shape.



Fully Automatic SMT Machine:

Place surface mounting components on PCB board. A key and complex equipment in the entire SMT production.



Reflow Soldering Machine:

Function: After different temperature, the solder paste is solidified and the SMT components and the circuit board are welded together.



Fully Automatic Lens Attaching Machine:

Automatically attach the lens to the LED circuit board, greatly improving production efficiency, saving up to 95% of manpower, and improving quality stability.

FULLY IMPLEMENT ISO STANDARDS



- **Environment Management System:**
GB/T24001-2016/ISO14001:2015
- **Quality Management System:**
GB/T19001-2016/ISO9001:2015
- **Occupation Health Safety Management System:**
GB/T45001-2020/ISO45001:2018

R & D CAPABILITIES

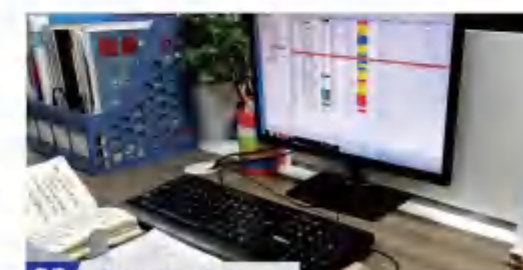
Product Design And Development Process

HIPO product design and R&D processes comply with ISO9001:2015 standard. Development of all self-developed products, ODM product implement this standards.



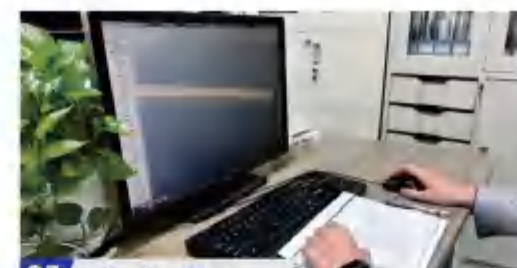
01 Market Research

- Market demand research;
- Research on existing and potential competing products;
- Define demand and market positioning.



02 Planning Phase

- R&D planning and project establishment;
- Calculation of development time and cost, expected revenue;
- Project review and approval.



03 Design Phase

- Build a development team;
- Output product drawings;
- Prototype verification.



04 Prototype

- Molding;
- Trial assembly and testing, prototype review;
- Final confirmation: appearance, size, function.



05 Trial Production

- Preparation: define trial production needs and materials preparation;
- Form a trial production team;
- Trial production review;
- Output mass production specification documents.



06 Mass Production

- Engineering and quality department track differences between mass-produced product and designs and provide feedback;
- The engineering department sets standard working hours, and the finance department approves the BOM cost.



PATENT CERTIFICATES & SOFTWARE COPYRIGHTS

Utility Model Patent Certificate



Appearance Design Patent Certificate



Software Copyright



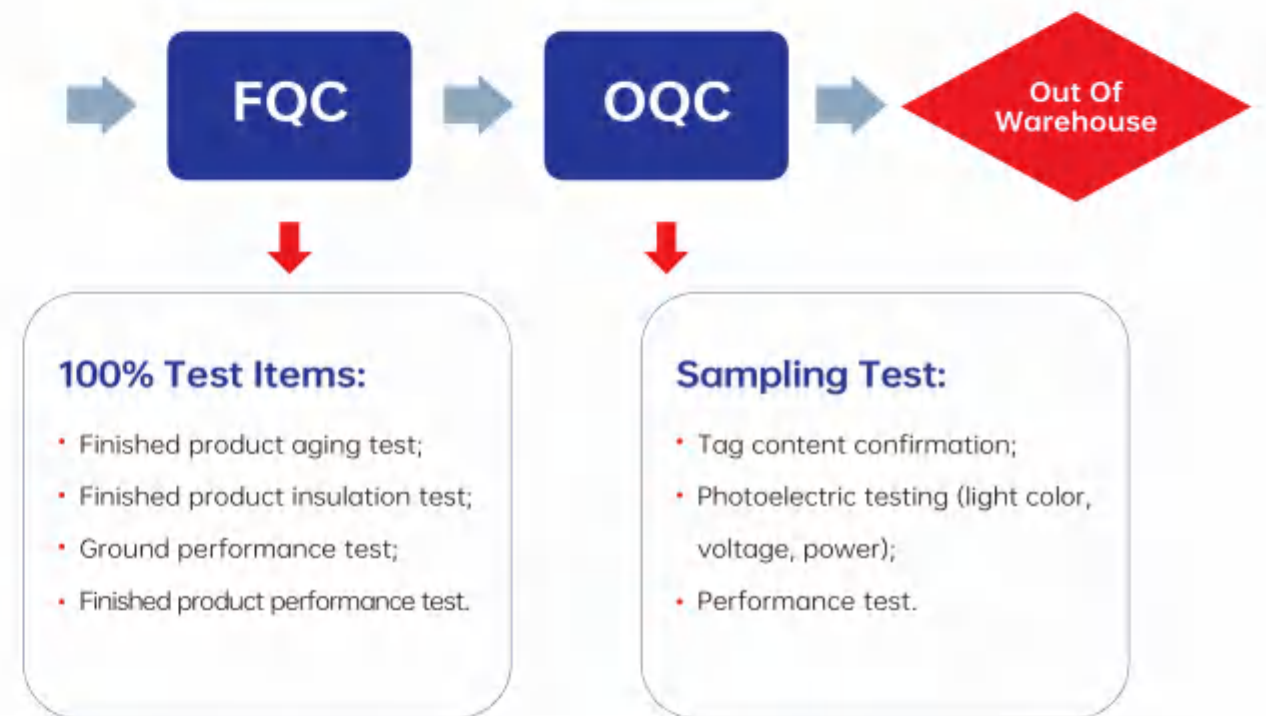
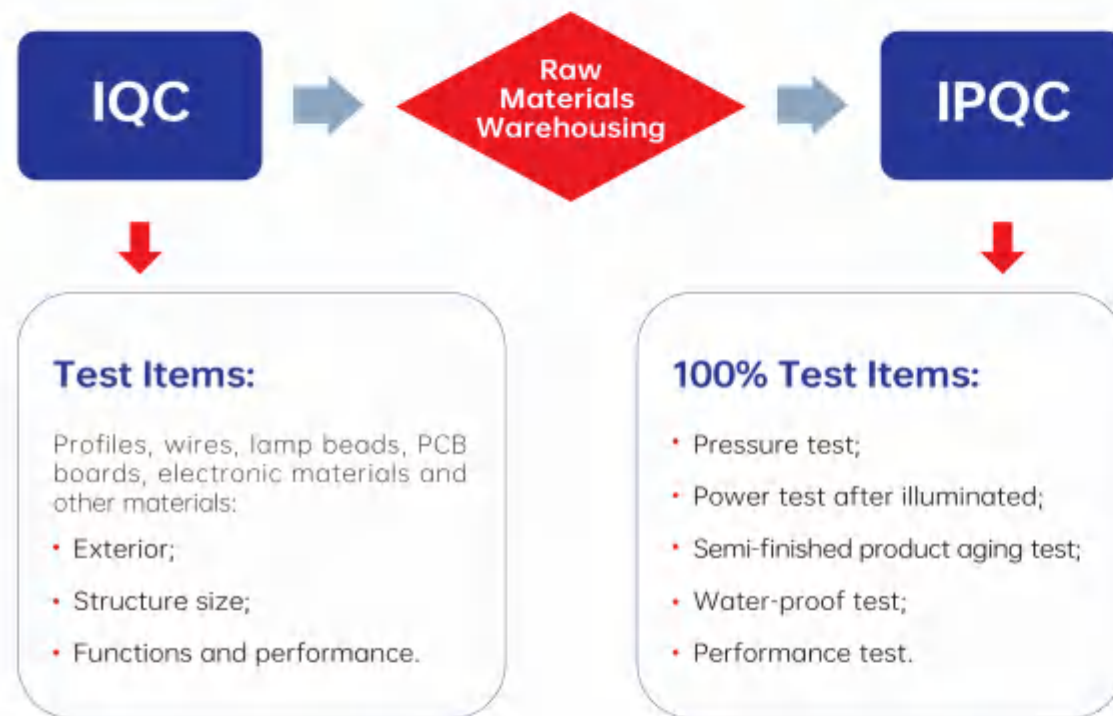
Software Literature_MR player
Broadcast Control Software V1.0



Software Literature_Simple
Software V1.0

QUALITY CONTROL

Incoming material to outbound inspection process



PRODUCT OVERVIEW

Leopard2 (U02) Highbay

P17-20



U02-100

U02-150

U02-200

U02-240

Leopard3 (U03) Highbay

P21-24



U03-100

U03-150

U03-200

U03-240

Kestrel2 (S02) Solar Streetlight

P25-30



S02-20

S02-40

S02-60

S02-80

S02-100

Kestrel3 (S03) Solar Streetlight

P31-36



S03-20

S03-30

S03-40

S03-50

S03-60

S01 Solar Floodlight Series

P37-40



S01-B003

S01-B005

S01-B009

S01-B012

S01-B015

F02 Floodlight Series

P41-42



F02-50

F02-100

F02-150

F02-200

Beidou (HWW-35X) Flood Light

P43-50



HWW-351

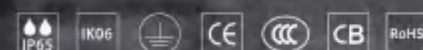
HWW-352

HWW-353

HWW-354

LEOPARD2 (U02) HIGHBAY

U02-103/U02-150/U02-200/U02-240



All-aluminum fin design High-quality LED chips PC optical lens Intelligent sensing CCT & Power select optional

PRODUCT INTRODUCTION

Appearance	The product has a light and thin appearance, high brightness, good heat dissipation, quick installation, and wide application range;
Housing	Integrated die-cast aluminum, gill plate heat dissipation design, lightweight lamp body, with better heat dissipation effect;
Light Source	Redundant light source design, multiple high-power LED lamp chips, with high thermal conductivity, low light attenuation, pure light color, and no ghosting;
Control	On/off, 0-10V, MW microwave sensing, PIR infrared induction, multiple control methods, high efficiency and energy saving;
Lens	Integrated circular PC optical lens, with high light transmission efficiency and uniform light output;
Installation	Two installation methods, hanging ring and U-shaped bracket are available, suitable for a variety of installation scenarios;
Applications	It can be used in High ceiling factory building, logistics center, exhibition site, workshop warehouse, stadium.

INTELLIGENT SENSING

Smart and automatic control

- Built-in dual sensing components;
- Intelligently identify lighting level;
- Automatically detect the human movement;
- Automatically switch on / delayed lights off function.

REMOTE-CONTROLLED HIGHBAY LIGHT

Step into smart lighting with our Intelligent Highbay Light. Whether microwave or infrared sensor can be applied. Brightness, color, and timers can be seamlessly adjusted through remote control. Illuminate instantly with sensor control. Manage groups of lights effortlessly.

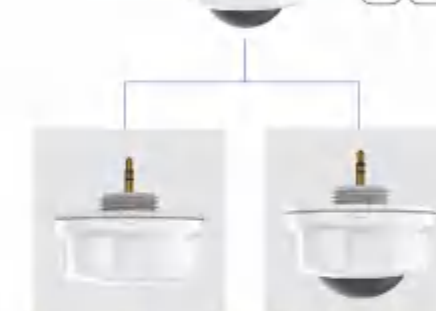
BRIGHTNESS ADJUSTABLE



BUTTON FUNCTIONS



Twist off to replace the sensing module

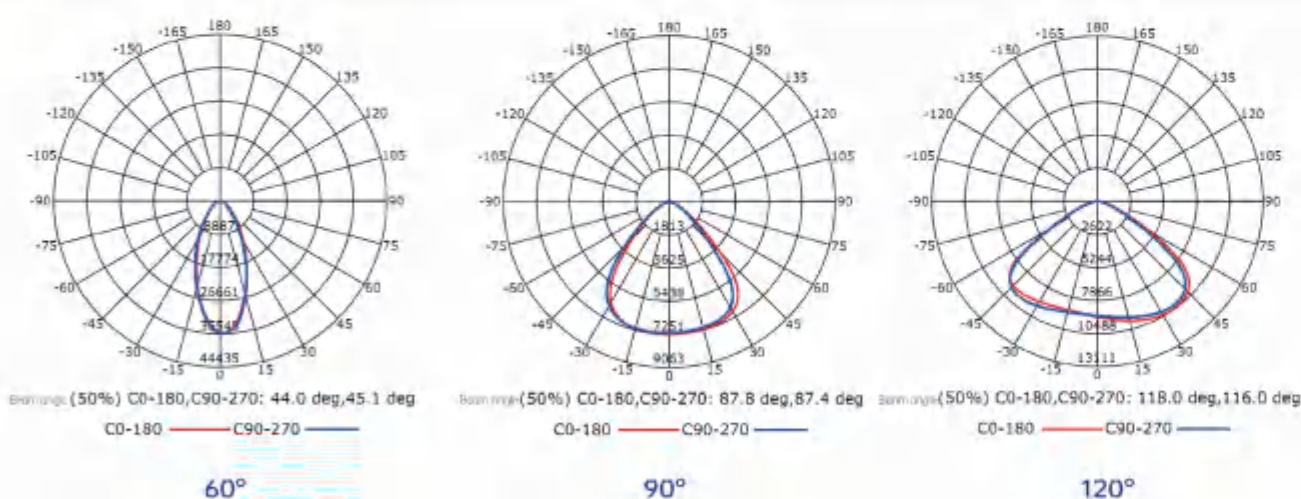


Microwave induction module PIR sensing module



Models	U02-100	U02-150	U02-200	U02-240
Power	100W	150W	200W	240W
LED Type	SMD 2835			
Luminous Efficiency	150lm/W			
LED Chip Quantity	168LEDs	252LEDs	336LEDs	420LEDs
Luminous Flux	3000K	13,200lm	18,600lm	26,000lm
	4000K	14,000lm	20,000lm	28,000lm
	5700K	13,500lm	19,400lm	27,100lm
	6500K	14,700lm	21,000lm	29,400lm
CCT	3000K/4000K/5700K/6500K			
SDCM	SDCM < 5			
Input Voltage	AC120~277V 50/60Hz			
Power Consumption	100W	150W	200W	240W
THD	< 20%			
Surge Protection	L-N 6KV L/N-PE 6KV			
Control Method	ON/OFF, 0-10V or MW/PIR sensing			
Shell Material	Lamp Body: Die-cast Aluminum Light-emitting Surface: Pc			
Cable	3x0.75mm ² rubber thread (L=240mm)			
Size (LxWxH) (Not include Stand)	Ø240*162MM	Ø290*162MM	Ø330*162MM	Ø330*162MM
Weight	1.6kg	1.8kg	2.2kg	2.3kg
Waterproof	Structure Waterproof			
Optional Accessories	Anti-glare Reflector, U-shaped Bracket, Anti-fall Rope			
Working Temperature	-30°C ~ 45°C			
Lifespan	L70@25°C 50000H			
Certifications	CQC, CE			
CRI	Ra>80			
Beam Angle	60°, 90°, 120°			
Power Factor	>0.9			
Surface Treatment	Surface Spray / Black			
Installation	Suspended Installation			
Applications	Indoor/Outdoor			
Storage Temperature	-25°C ~ 50°C			
Standards	IEC 60598-1:2014			

LUMINOUS DISTRIBUTION

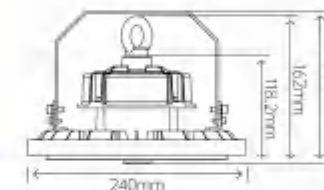


PRODUCT SIZE

Model:
U02-100

Wattage:
100W

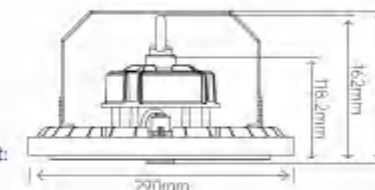
Luminaire Net Weight:
1.6kg



Model:
U02-150

Wattage:
150W

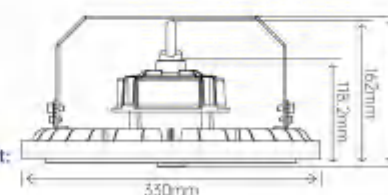
Luminaire Net Weight:
1.8kg



Model:
U02-200

Wattage:
200W

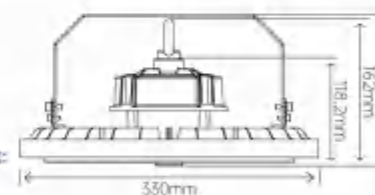
Luminaire Net Weight:
2.2kg



Model:
U02-240

Wattage:
240W

Luminaire Net Weight:
2.3kg



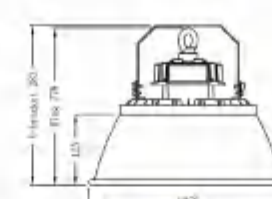
ACCESSORY



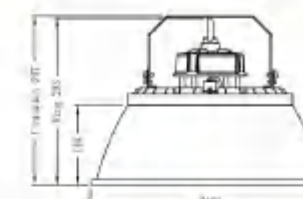
Anti-glare Cover



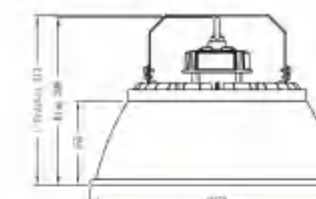
U-shaped Bracket



U02-100



U02-150

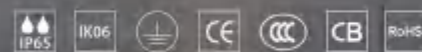


U02-200/240



LEOPARD3 (U03) HIGHBAY

U03-100/U03-150/U03-200/U03-240



Unique Appearance Design



Fin heat dissipation



High quality lamp beads



PC Optical Lens



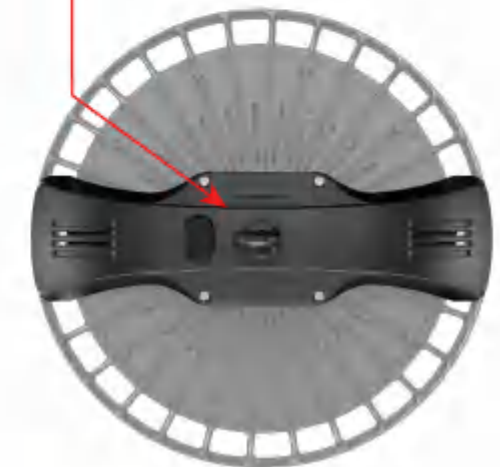
CCT & Power select control



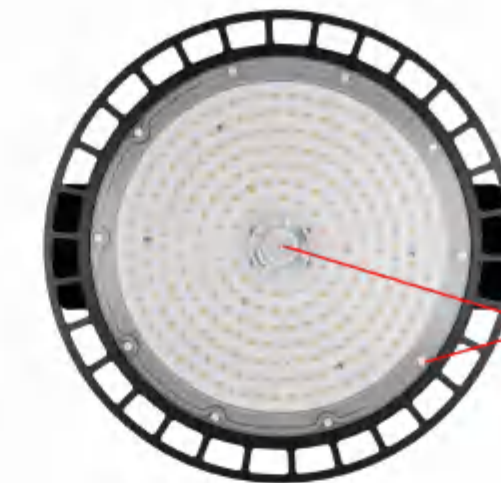
Newly Upgrade

Separated driver chamber and housing
Better driver heat dissipation due to independent driver chamber design. The driver keeps a low operating temperature and increase reliability.

CCT & Power select optional
Power and CCT 3 options adjustable by dialing.



Distortion-proof one-piece lens
PC one-piece lens has support points around and between the centre and the housing, it will not be deformed under high temperature.

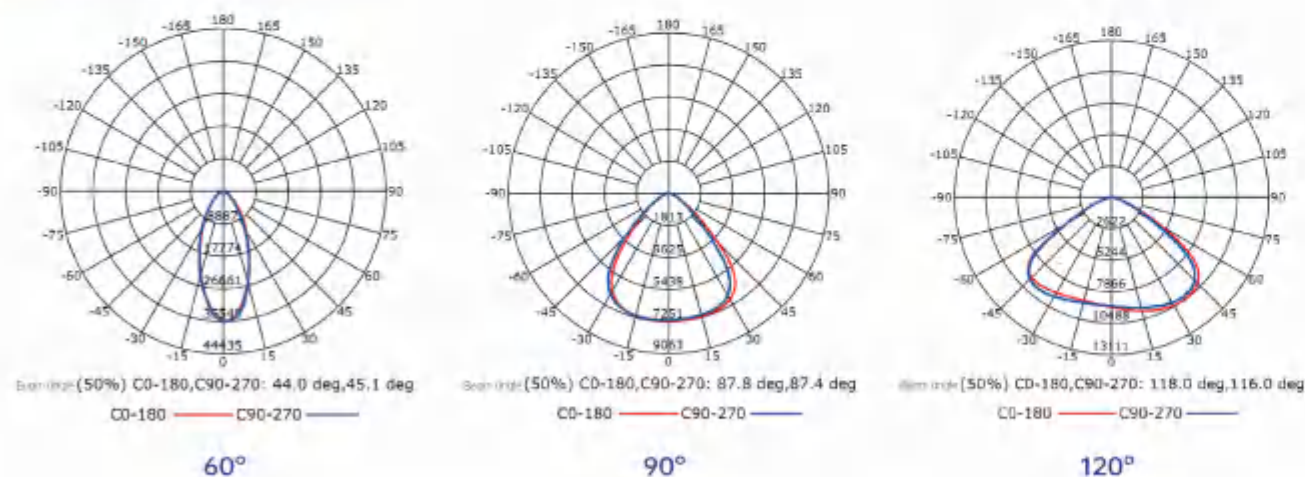


PRODUCT INTRODUCTION

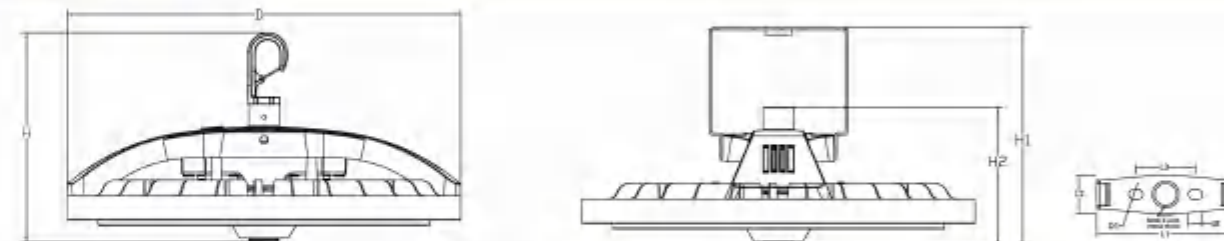
Appearance	Streamlined appearance design. Separate structure of driver and housing good for heat dissipation and facilitate driver replacement;
Housing	One-piece die-cast aluminum with fin heat dissipation design;
Light Source	Redundant light source design ensures high light efficiency, low light depreciation;
Lens	Distortion-proof integrated round PC optical lens ensure high efficiency and comfortable light;
Installation	Suspension installation by hanging hook or hanger bar, sidewall and ceiling mounting by U-shape bracket;
Applications	It can be used in High shed factory building, logistics center, exhibition site, workshop warehouse, stadium...

Models	U03-100	U03-150	U03-200	U03-240
Power	100W	150W	200W	240W
LED Type	SMD 2835			
Luminous Efficiency	150lm/W			
LED Chip Quantity	168LEDs	252LEDs	336LEDs	420LEDs
Luminous Flux	3000K	13,200lm	18,600lm	26,000lm
	4000K	15,000lm	23,000lm	30,000lm
	5700K	13,500lm	19,400lm	27,100lm
	6500K	14,700lm	21,000lm	33,600lm
CCT	3000K/4000K/5700K/6500K			
SDCM	SDCM<5			
UGR	<22			
Input Voltage	AC180~264V 50/60Hz			
Rated Current	0.45A	0.68A	0.94A	1.09A
Power Consumption	100W	150W	200W	240W
THD	<20%			
Surge Protection	L-N 6KV L/N-PE 6KV			
Control Method	ON/OFF, 0-10V, MW/PIR sensing			
Housing Material	Housing: die-cast aluminum, surface: pc			
Cable	5x18AWG/3x1mm ²			
Size (L*W*H)	Ø240*168MM	Ø290*170MM	Ø330*176MM	Ø330*176MM
Weight	1.6kg	1.8kg	2.2kg	2.3kg
Waterproof	Structural waterproof			
Optional Accessories	Anti-glare reflector, u-shaped bracket, anti-fall rope			
Working Temperature	-30°C ~ 50°C			
Lifespan	L70@25°C 50000H			
CRI	Ra>80			
Beam Angle	60°, 90°, 120°			
Power Factor	>0.9			
Surface Treatment	Surface painted/dark grey			
Installation	Hanging mounting			
Applications	Indoor/outdoor			
Storage Temperature	-25°C ~ 50°C			
Standards	GB7000.1-2015/IEC 60598-1: 2014			

LUMINOUS DISTRIBUTION



PRODUCT SIZE



Models	D	H	H1	H2	D1	L1	L2	L3
U03-100	Ø240	168	175	108	Ø8.5	116	32	50
U03-150	Ø290	170	176	110	Ø8.5	116	32	50
U03-200	Ø330	176	183	116	Ø8.5	116	32	50
U03-240	Ø330	176	183	116	Ø8.5	116	32	50

Size Unit: mm

INSTALLATION METHOD



Hook Lifting



U-Bracket Installation



Hanger bar mounting

ACCESSORY

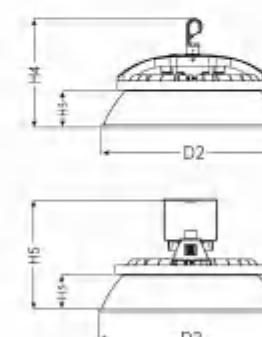


Anti-glare Cover



U-shaped Bracket

DIMENSIONS OF ANTI-GLARE COVER ACCESSORY



Models	U03-100	U03-150	U03-200	U03-240
D2	Ø300	Ø360	Ø400	Ø400
H3	71	75	81	81
H4	220	229	238	238
H5	227	234	245	245

Unit: mm

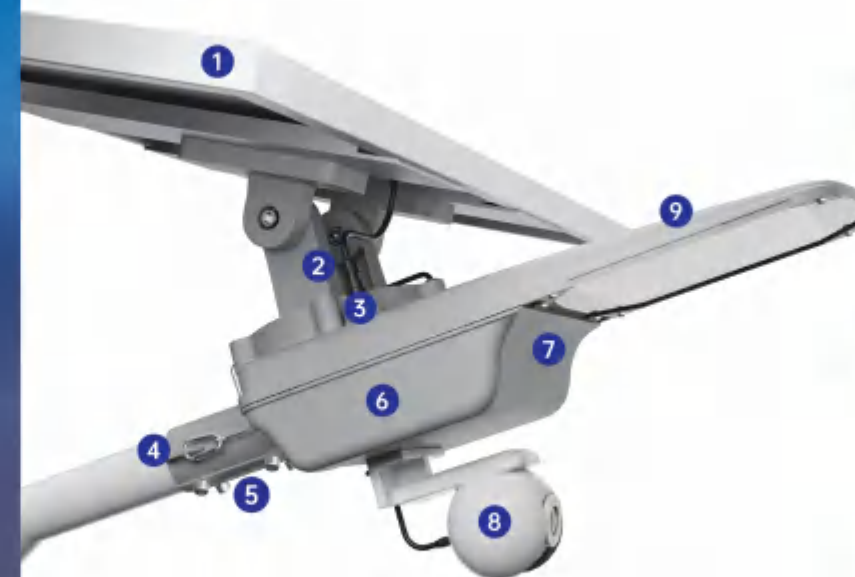
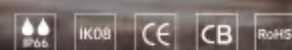


S02 KESTREL2

SOLAR STREET LIGHT

S02-20 / S02-40 / S02-60 / S02-80 / S02-100

Intelligent · Durable · 0 energy charge



- 1 Class A monocrystalline silicon photovoltaic panels
- 2 360° rotatable connection platform and 52° tiltable solar panel



- 3 Gear meshing design and fixed anchor of connection Level and patented compass design



- 4 304 stainless steel M14 screw and nut connectors 20cm extension connector, fixed with 2 screws on 4 sides;



- 5 Double safety buckles



- 6 Independent battery pack LiFePO4 battery MPPT(Maximum Power Point Tracking) charging management



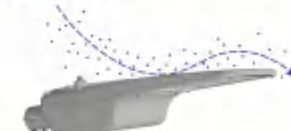
- 7 Electrical box can be opened without any tools Built-in battery insulation components Integration of batteries, controllers, and lighting components



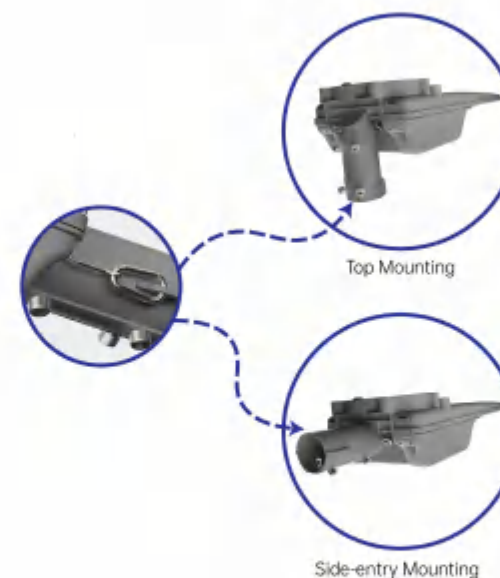
- 8 Power supply for IoT equipments



- 9 Streamlined and simple design IP66 protection



Patented elbow connector design for both straight & horizontal pole mounted





S02

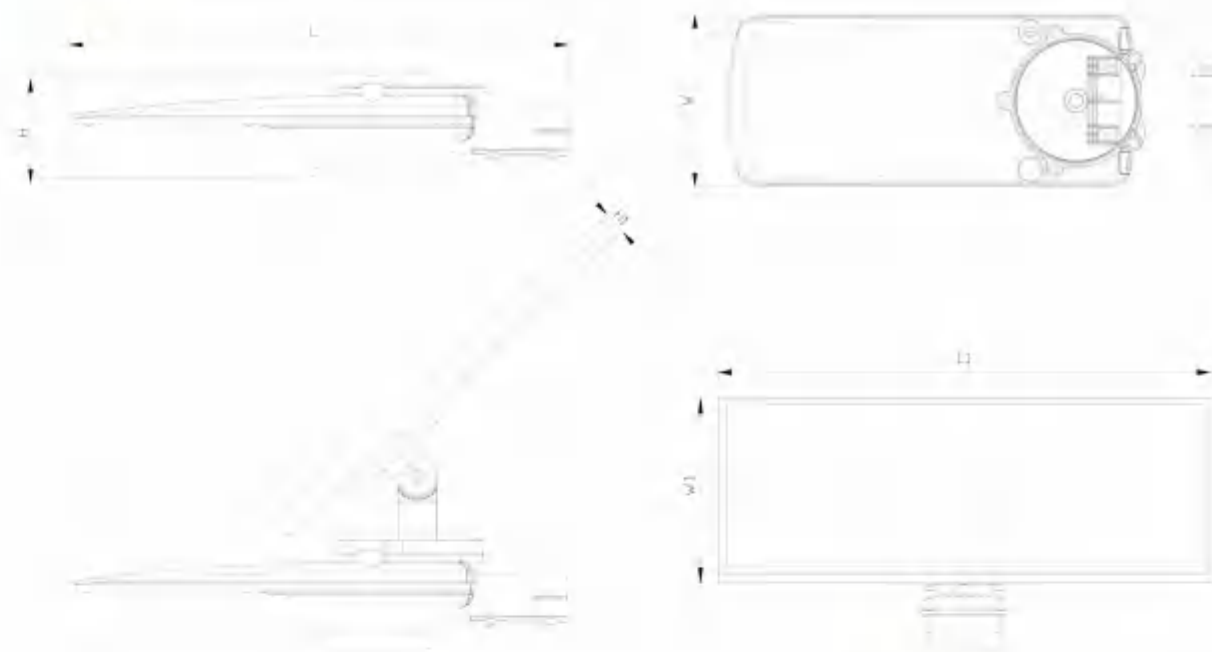
PRODUCT INTRODUCTION

Appearance	Simple design with smooth lines and self-cleaning performance;
Material	High light transmittance and UV resistance tempered glass, ADC12 aluminum, 304 stainless steel connection screws;
Light Source	High-efficiency LEDs, whole luminaire light efficacy up to 190-210lm/W;
Control	Light-level control, time sequence control, MW control, etc;
PV panels	360 ° horizontally and 52 ° vertically adjustable. MPPT charging management;
Battery	LiFePO4 battery, MCU control and temperature management;
Installation	Easy connection between PV panel and light fixture only by one cable. The level and compass facilitate positioning and angle adjustment;
Protection	IP66, IK08;
Applications	Parks, campuses, industrial parks, leisure plazas, roads and streets.

Item	Type	S02-20	S02-40	S02-60	S02-80	S02-100
Photovoltaic Panel	Material	High-efficiency monocrystalline silicon				
	Voltage	DC36V				
	Power	40W	80W	120W	160W	200W
	Lifespan	20-25 years				
	Adjustable Angle	Horizontal angle 360°, vertical angle 52°				
Lithium Battery	Battery Type	LiFePO4				
	Specifications	25.6 V/12H	25.6V/18AH	25.6V/22AH	25.6V/24AH	25.6V/30AH
	Lifespan	8 years				
Solar Controller		MPPT charging management, MCU control;				
Luminaire	Power	20W	40W	60W	80W	100W
	LEDs	5030 LUMILEDS				
	LED Quantity	64pcs	192pcs	256pcs	336pcs	384pcs
	CCT	3000-6500K (Default 4000K)				
	Luminous Flux	4000lm	8000lm	12000lm	15200lm	19000lm
	Efficiency lm/W	180-200lm/W	180-200lm/W	180-200lm/W	170-190lm/W	170-190lm/W
	CRI	≥ 70 (80 optional)				
	Beam Angle	140°70 (default) 150°80 (optional)				
	Distribution Type	Bat wings				
Sensor	Lifespan	≥ 50000H				
	Sensor	Microwave induction, remote control				
	Sensing Distance	10-15m				
Charging Time		5-7 hours				

Item	Type	S02-20	S02-40	S02-60	S02-80	S02-100
Battery Life	Full Power	<12 hours				
	Light Control Mode	4-5 consecutive rainy days, 12 hours a day				
Operating Mode		Light-level control, time sequence control, remote control, custom control, Microwave control				
Operating Temperature	Working Temperature	-25°C~50°C				
	Storage Temperature	-25°C~45°C				
Installation Suggestions	Installation Height	4-5m	6-7m	7-8m	8-10m	8-10m
	Spacing	13-16m	19-23m	27-31m	30-33m	30-35m
	Casing Diameter	64mm				
Material		Housing: high-strength die-cast aluminum, light-emitting glass				
Luminaire Size		756*260*157mm				
Photovoltaic panel size (reference)		670*420*25mm	770*670*25mm	1022*670*30mm	1320*670*35mm	1570*710*35mm
Net Weight of Luminaire		12.56kg	13.55kg	14.64kg	14.74kg	15.66kg
Net Weight of Photovoltaic Panel		5.33kg	8.52kg	10.6kg	14.18kg	16.62kg

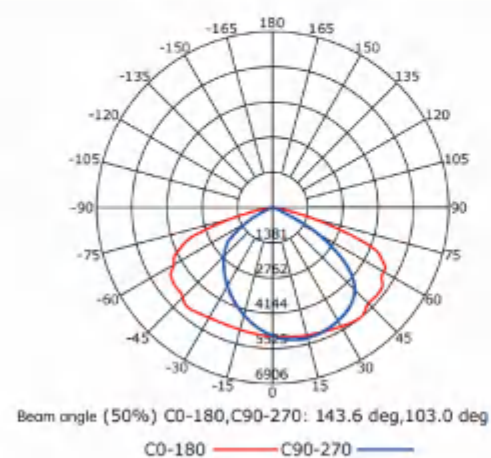
PRODUCT SIZE



Models	luminaire Size (mm)				Photovoltaic Panel Size (mm)		
	L	W	H	Inner Diameter Of Casing	L1	W1	H1
S02-20	756	260	157	Ø64	670	620	25
S02-40					770	670	25
S02-60					1022	670	30
S02-80					1320	670	35
S02-100					1570	710	35

Size Unit: mm

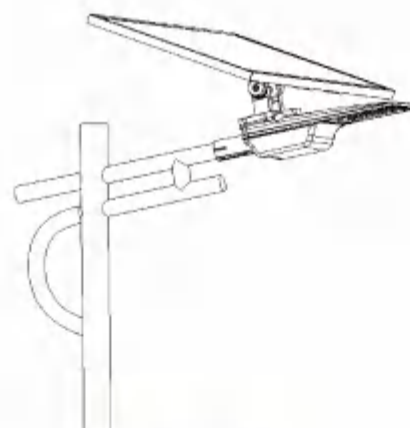
LUMINOUS DISTRIBUTION



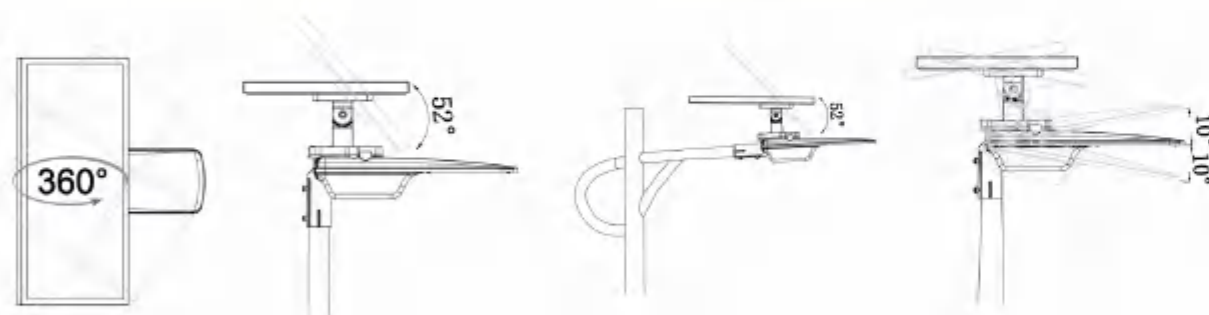
INSTALLATION DIAGRAM



Straight Pole Mounted



Horizontal Pole Mounted



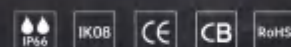
Photovoltaic panel can be adjusted 52° vertically and 360° rotatable, light fixture can be ±10° adjustable.



S03 INTEGRATED SOLAR STREET LIGHT

S03-20 / S03-30 / S03-40 / S03-50 / S03-60

Automatic lighting Intelligent control



1 A-class monocrystalline silicon photovoltaic panels

2 Integrated solar street light with simple appearance With aluminum profiles on both sides The connecting parts are made of 304 stainless steel



3 Microcontroller Program, MPPT charging management LiFePO4 battery with temperature management design



4 Extended elbow casing Switch between straight and horizontal plug by simply changing the direction of the connector



5 Double safety rope design



6 Equipped with a level to facilitate adjustment



7 Optional bird spikes to ensure that the PV panel is kept clean





S03

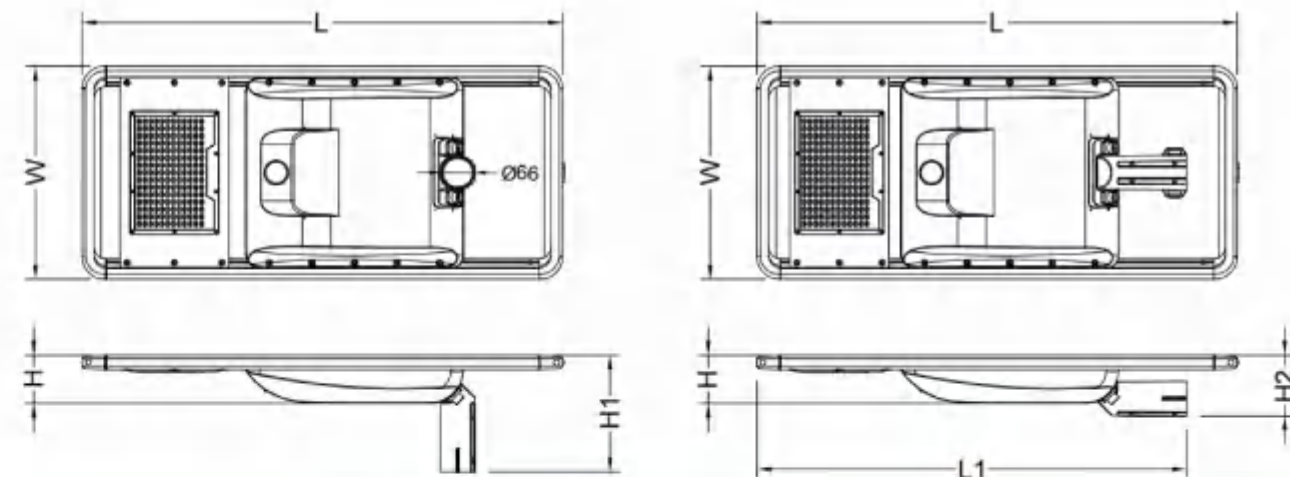
PRODUCT INTRODUCTION

- Appearance** Simple design with smooth lines and self-cleaning performance;
- Material** High light transmittance and UV resistance tempered glass, ADC12 aluminum, 304 stainless steel connection screws;
- Light Source** High efficiency LEDs with redundancy design;
- Control** Automatic mode, microwave sensing, remote control;
- PV panels** integrated, MPPT charging management;
- Battery** LiFePO4 battery, MCU control and temperature management;
- Installation** Easy to install without wiring;
- Protection** IP66, IK08;
- Applications** Parks, campuses, industrial parks, leisure plazas, roads and streets.

	Model	S03-20	S03-30	S03-40	S03-50	S03-60
Solar Panel	Type	High-efficiency monocrystalline silicon				
	Voltage	DC18V				
	Power	40W	55W	70W	85W	100W
	Lifespan	20-25 years				
Battery	Battery Type	LiFePO4				
	Specifications	12.8V/12AH	12.8V/18AH	12.8V/24AH	12.8V/30AH	12.8V/36AH
	Lifespan	8 years				
Solar Charge Controller		MPPT charging management, MCU control;				
Specification Of Light Fixture	Power	20W	30W	40W	50W	60W
	LED Type	LUMILEDS 3030				
	LED Qty	120pcs	120pcs	180pcs	240pcs	360pcs
	CCT	3000-6500k (Default 4000k)				
	Luminous Output	3600lm	5100lm	7200lm	9000lm	10200lm
	Efficiency lm/w	160-180lm/W				
	CRI	≥70 (80 optional)				
	Light Distribution	Type III				
	Distribution Type	Bat wings				
Sensor	Lifespan	≥50000H				
	Sensor	Microwave Induction				
Sensing Distance		10-15m				
Charging Time		5-7 hours in sunny day				

	Model	S03-20	S03-30	S03-40	S03-50	S03-60
Duration	Full Power	<12 hours				
	Light Control Mode	12 hours a day in case 2-3 consecutive rainy days				
Working Mode		Automatic mode, custom control, microwave control				
Working Temperature	Working	-20°C~60°C				
	Storage	-20°C~45°C				
Installation	Installation Height	4-5m	6-7m	7-8m	8-10m	8-10m
	Spacing	13-16m	16-19m	19-23m	23-27m	27-31m
	Inner Diameter	Φ64mm				
Material		Housing: high-strength die-cast aluminum, PC lens with glossy surface				
Dimensions (Without Casing Pipe)		785*450*102mm	825*450*102mm	1015*450*102mm	1195*450*102mm	1380*450*102mm
Package Size		815*150*505mm	855*150*505mm	1045*150*505mm	1225*150*505mm	1410*150*505mm
Net Weight		10.9kg	11.6kg	13.5kg	15.1kg	16.7kg
Gross Weight		12.2kg	12.8kg	14.6kg	16.9kg	18.7kg

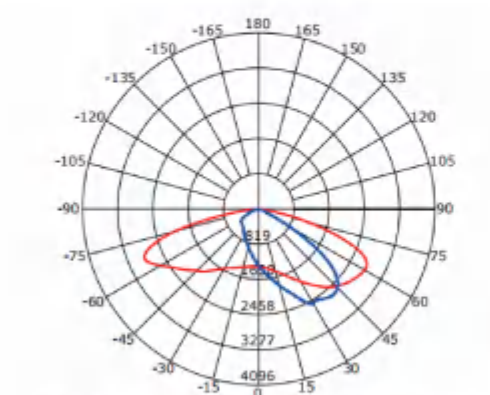
PRODUCT SIZE



Models	L	W	H	H1	L1	H1	H2	Inner diameter of casing pipe
S03-20	785	450	102	247	863	247	128	Φ64
S03-30	825				863			
S03-40	1015				907			
S03-50	1195				1127			
S03-60	1380				1127			

KESTREL3 (S03) SOLAR STREETLIGHT

LUMINOUS DISTRIBUTION



Beam Angle(50%) C0-180,C90-270: 151.3 deg,57.3 deg

C0-180 ——— C90-270 ———

Models	CCT	Beam Angle	Luminous Output(lm)	Light Efficiency(lm/W)	Center Light Intensity(cd)
S03-20	4000K	140°70	3494	174.7	1016
S03-30	4000K	140°70	5298	176.6	1540
S03-40	4000K	140°70	7105	177.6	2113
S03-50	4000K	140°70	8790	175.8	2601
S03-60	4000K	140°70	10647	177.4	3079

INSTALLATION DIAGRAM

In case straight pole mounted, luminaires with different model are $\pm 10^\circ$ tiltable.

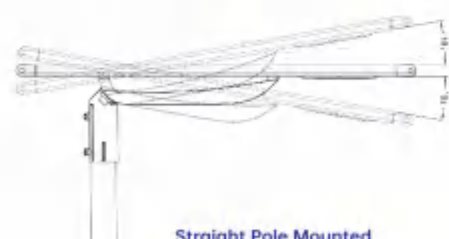
In case horizontal pole mounted, S02-20 and S02-30 are $\pm 10^\circ$ tiltable, S02-40 and S02-50 are $+7^\circ$ to -10° tiltable, S02-60 is -10° tiltable.



Straight Pole Mounted



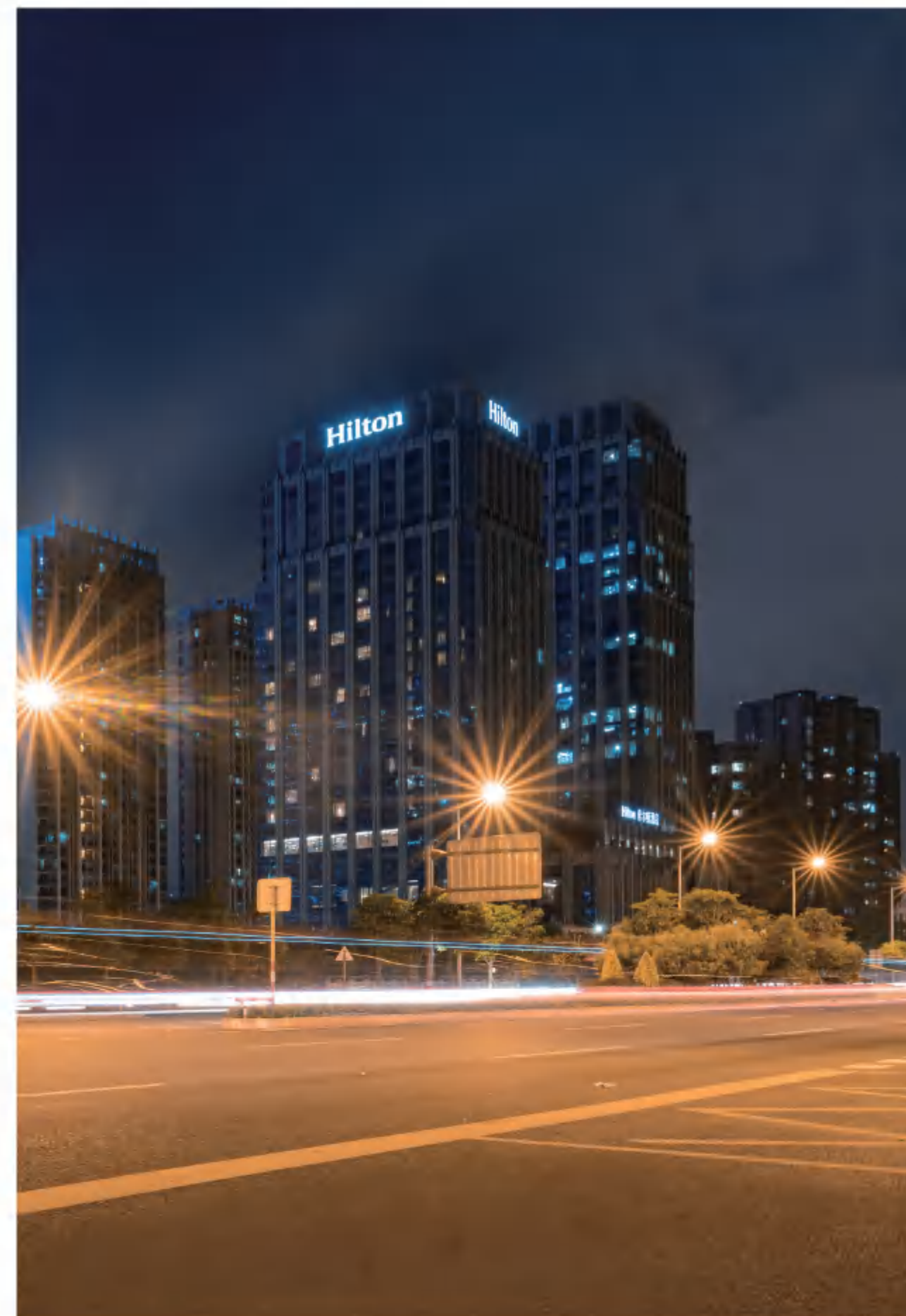
Horizontal Pole Mounted

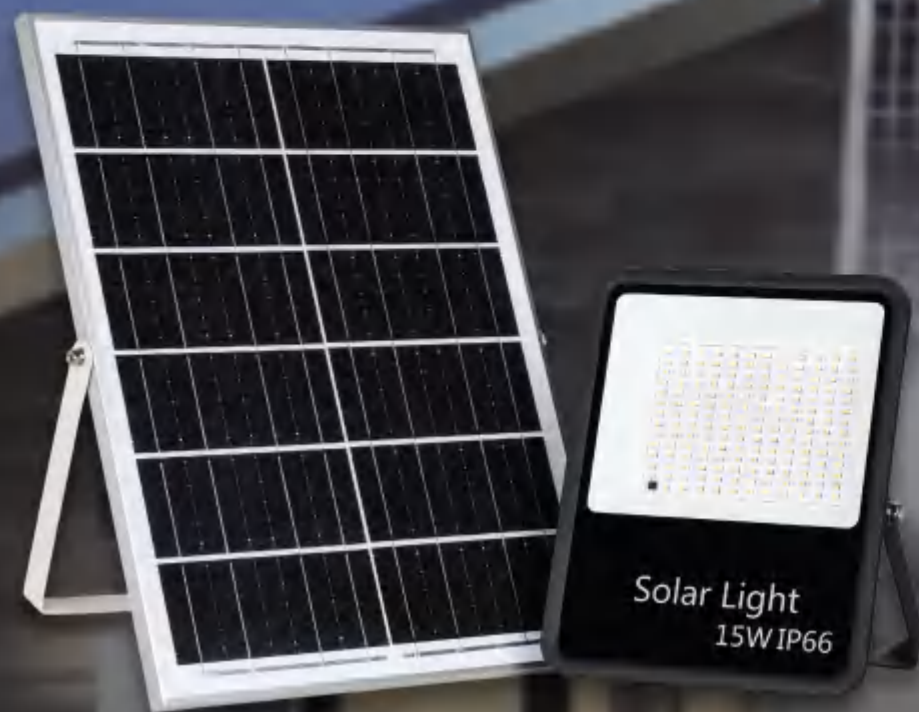


Straight Pole Mounted

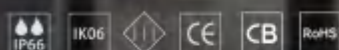


Horizontal Pole Mounted





S01



SOLAR FLOODLIGHT SERIES



S01-B003

IP66 Rated Power 3W 55Lamp Beads

Lamp Size: 189*155*48mm

Solar Panel Size: 350*235*17mm

Solar Panel Specifications: Monocrystalline Silicon 6V 10W

Lithium Battery Specifications: 3.2V, 6AH

Light Source Power: 28W

Work Sustainably At Full Power:

15% Brightness : 44 Hours 100% Brightness : 6.4 Hours



S01-B005

IP66 Rated Power 5W 55Lamp Beads

Lamp Size: 189*155*48mm

Solar Panel Size: 350*235*17mm

Solar Panel Specifications: Monocrystalline Silicon 6V 10W

Lithium Battery Specifications: 3.2V, 12AH

Light Source Power: 28W

Work Sustainably At Full Power:

15% Brightness : 44 Hours 100% Brightness : 6.4 Hours



S01-B009

IP66 Rated Power 9W 99Lamp Beads

Lamp Size: 270*217*48mm

Solar Panel Size: 350*350*17mm

Solar Panel Specifications: Monocrystalline Silicon 6V 18W

Lithium Battery Specifications: 3.2V, 18AH

Light Source Power: 100W

Work Sustainably At Full Power:

15% Brightness : 34 Hours 100% Brightness : 5.5 Hours



S01-B012

IP66 Rated Power 12W 143Lamp Beads

Lamp Size: 270*217*48mm

Solar Panel Size: 350*450*17mm

Solar Panel Specifications: Monocrystalline Silicon 6V 25W

Lithium Battery Specifications: 3.2V, 24AH

Light Source Power: 143W

Work Sustainably At Full Power:

15% Brightness : 35 Hours 100% Brightness : 5 Hours



S01-B015

IP66 Rated Power 15W 167Lamp Beads

Lamp Size: 270*217*48mm

Solar Panel Size: 350*450*17mm

Solar Panel Specifications: Monocrystalline Silicon 6V 25W

Lithium Battery Specifications: 3.2V, 30AH

Light Source Power: 168W

Work Sustainably At Full Power:

15% Brightness : 35 Hours 100% Brightness : 5 Hours

COMMON TECHNICAL PARAMETERS

Luminous Efficiency	150Lm/W
CCT	6500K
CRI	Ra > 80
Protection Level	IP66
Working Temperature	-20~45°C
Beam Angle	100°
Battery Type	Lithium Iron Phosphate
Work On Rainy Days	2-3 Days
Control Method	Intelligent Automatic Lighting Mode & Artificial Remote Control Mode
Storage Temperature	0-50°
Light-controlled Timing	
Period 1:	40% 0.5Hours
Period 2:	100% 1.5Hours
Period 3:	60% 2Hours
Period 4:	40% 2Hours
Period 5:	15% until Dawn

COMMON TECHNICAL PARAMETERS

Luminous Efficiency	150Lm/W
CCT	6500K
CRI	Ra > 80
Protection Level	IP66
Working Temperature	-20~45°C
Beam Angle	100°
Battery Type	Lithium Iron Phosphate
Work On Rainy Days	2-3 Days
Control Method	Intelligent Automatic Lighting Mode & Artificial Remote Control Mode
Storage Temperature	0-50°
Light-controlled Timing	
Period 1:	40% 0.5Hours
Period 2:	100% 1.5Hours
Period 3:	60% 2Hours
Period 4:	40% 2Hours
Period 5:	15% until Dawn

PRODUCT INTRODUCTION

Appearance	Simple design with streamlines;
Material	High light transmittance and UV resistance tempered glass, ADC12 die-cast aluminum;
Light source	High efficiency SMD LEDs with light efficiency up to 130lm/W;
Control	Automatic mode, microwave sensing, remote control;
PV panels	integrated, MPPT charging management;
Battery	LiFePO4 battery, MCU control and temperature management;
Installation	Easy to install without wiring;
Protection	IP66, IK06;
Applications	Parks, campuses, industrial parks, leisure plazas, roads and streets.

Integrated Heat Dissipation Structure Design

The housing is die-cast in one piece, using ADC12 material, large area of heat fin, effectively improve the heat dissipation effect.

- ✓ Crushing Resistance
- ✓ Fast Heat Dissipation
- ✓ Waterproof & Dustproof
- ✓ Resistant To Rust



Tempered glass with high light transmittance

Explosion-proof pressure, no fear of all kinds of outdoor environment, and the glass is tempered to avoid accidental rupture and injury.

- ✓ High Temperature Resistance
- ✓ Strong Light Transmission
- ✓ Safer



Monocrystalline Silicon Solar Panel

Automatic charging during the day, automatic dark lights, sunny day flash charge, 5-6 hours full charge using aerospace grade materials, faster light absorption, stronger and more durable power supply.

- ✓ High Conversion Rate
- ✓ High Charging Capacity
- ✓ Long Life



Pure Copper Core Waterproof Male Female Connector

The radial butt is waterproof and then upgraded, and the straight plug is in place in one step.

- ✓ Ageing Resistance
- ✓ Thick & Solid
- ✓ Durable Service



Adjustable Irradiation Angle Of 270°

Wider application scenarios.

- ✓ Flexible
- ✓ Convenient
- ✓ Practical



Optimized Light Mode To Understand You Better

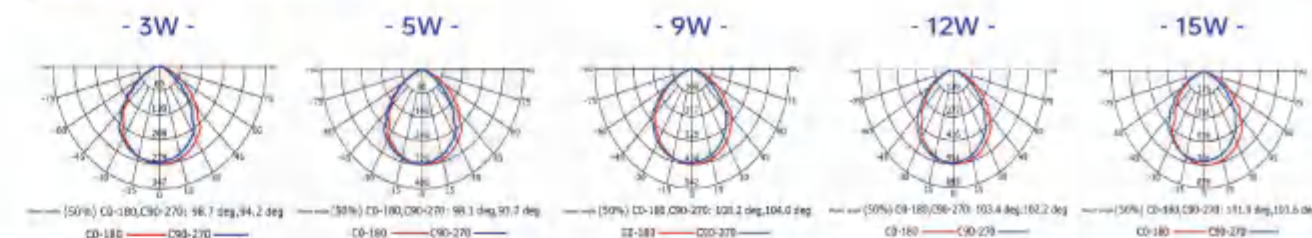
The MCU program will preset the lighting level according to the needs at different times of the day, effectively extending the battery life.

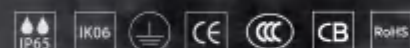
Time period	Lighting mode	Lighting mode
17:00-19:00	Full moon light needed	Full moon light
20:00-22:00	Need moon light	Full moon light
22:00-00:00	More people flow needed or been late indoors	Full moon light
00:00-05:00	None	Full moon light
05:00-10:00	A light sample get up at night	Full moon light

PRODUCT CHARACTERISTICS

Input Voltage	DC3.2V
Charging Voltage	DC6V
Housing Material / Color	AD C12 Die-cast aluminum + tempered glass lens/black
Surface Treatment	Fluorocarbon Spraying
Installation Bracket / Material	Disassembly-free bevel bracket / galvanized sheet with black
Installation Method	Fixed on surface
Mounting Brackets / Material Quality	Detachable bevel bracket / galvanized sheet spraying
Storage Temperature / Humidity	0°C to 50°C / <65%RH
Working Environment Temperature / Humidity	-20°C to 45°C / <85%RH
Luminaire Surface Temperature	<45°C (under 25°C)
Lifespan	Under 25°C>30000h
Applications	Sports fields, courtyards, parks, country roads, etc..
Male & Female Cable Specification	60227(52 RVV) 2*0.5² 1m
Wiring	60227(52 RVV) 2*0.5² with male & female connector

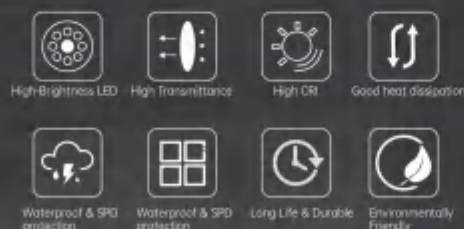
LUMINOUS DISTRIBUTION





F02

HIGH EFFICIENCY FLOODLIGHT



F02-50

F02-100

F02-150

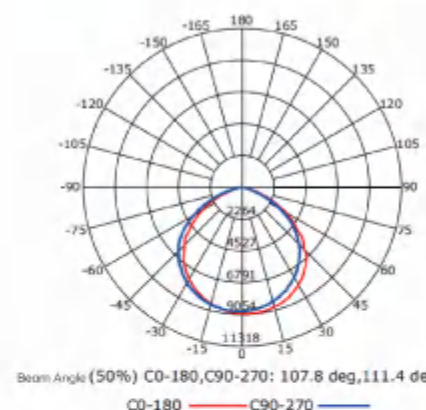
F02-200

Models	F02-50	F02-100	F02-150	F02-200
Power	50W	100W	150W	200W
Size (L*W*H) (Not include Stand)	165*190*34mm	213*270*38mm	260*315*46mm	301*361*47mm
LED Chip Quantity	70 LEDs	140 LEDs	210 LEDs	280 LEDs
Luminous Flux	3000K	4,500lm	8,910lm	13,290lm
	4000K	4,800lm	9,750lm	14,540lm
	6500K	5,100lm	9,990lm	14,900lm
Weight	0.55kg	1.13kg	1.59kg	2.19kg

COMMON TECHNICAL PARAMETERS

Luminous Efficiency	≥ 95lm/W (4000K)
CCT	3000K, 4000K, 6500K
CRI	Ra > 80
SDCM	SDCM ≤ 5
Beam Angle	110°
Input Voltage	180-264VAC, 50/60Hz
Power Factor	> 0.9
Optional Accessories	/
THD	< 20%
Surge Protection	L-N 2KV L/N-PE 4KV
Control Method	ON/OFF
Shell Material	Lamp Body: Die-cast Aluminum Light-emitting Surface: Glass
Surface Treatment	Surface Spray / Black
Cable	3x0.75mm² Rubber Thread (L=240mm)
Waterproof	Waterproof Structure, Built-in Anti-siphon Device
Installation	Bracket Fixed Installation
Applications	Indoor/Outdoor
Working Temperature	-30°C ~ 45°C
Storage Temperature	-25°C ~ 50°C
Lifespan	L70@25°C 30000H
Standards	IEC 60598-1: 2014
Certifications	CE

LUMINOUS DISTRIBUTION



PRODUCT INTRODUCTION

- Appearance:** Seamless front frame, no screws, smooth lines and simple appearance;
- Material:** Integrated die-cast aluminum, tempered glass, built-in anti-siphon device;
- Light source:** High efficiency SMD LEDs;
- Installation:** Bending bracket for visual mounting with electric batches;
- Protection:** IP65, IK06
- Application:** Outdoor car parks, courtyards, sports grounds, squares, billboards.

Ultra-thin lamp body

Minimalist design, built-in power supply makes the lamp body ultra-thin and compact, the overall simple and beautiful.

✓ Only
34mm



High efficiency heat dissipation

The heat dissipation design of the back heat rib runner extends to the top and bottom of the lamp body, so that the heat dissipation is more efficient and the life of the LED light source is guaranteed.

- ✓ High-Voltage Protection
- ✓ Fast Heat Dissipation
- ✓ Waterproof And Dustproof
- ✓ No Rust



Toughened glass panel, pressure and dust resistant

The use of professional tempered glass, high transmittance, reduce light loss. The impact rating is IK06.

- ✓ Resistant To Corrosion
- ✓ Anti-uv Aging



Built-in anti-siphon device

Prevent safety accidents caused by siphon water from damaged wires.



Bending bracket design allows screw holes fully visible for quick and accurate mounting

When the supporting arms of bracket and the mounting surface are bent along the bending line, they form an angle that allows the screw holes fully visible, and an electric screwdriver can be used to achieve quick and accurate installation.

Obtained the utility model patent
Patent number: ZL 2022 2 1262336.1

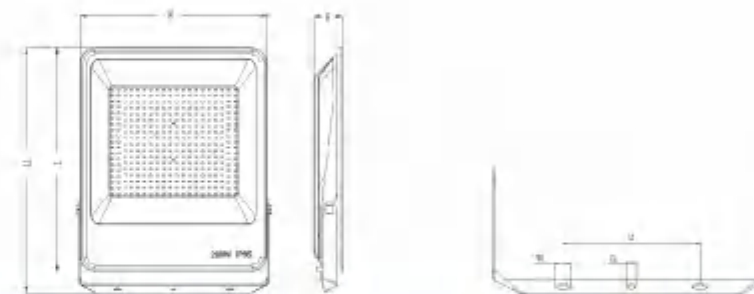


Details represent quality

- ✓ Quick and easy installation
- ✓ Bending bracket enable to lock screws on power tools



PRODUCT SIZE



Models	L	L1	W	H	D1	W1	L3
F02-50	190	224	165	34	Ø6.5	12.5	90
F02-100	270	302	213	38	Ø9	15	130
F02-150	315	346	260	46	Ø9	15	130
F02-200	361	395	301	47	Ø9	15	130

Size Unit: mm

INSTALLATION DIAGRAM

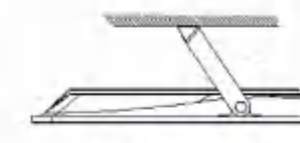
Installation instructions: The lamp can be installed vertically, side-mounted or suspended. The illumination angle can be adjusted according to the actual scene requirements. The back of the lamp is the heat dissipation surface. When installing, ensure that the distance between the back of the lamp and the wall is no less than 5cm.



Surface Mounting



Wall Mounting



Ceiling Mounting





HWW-351

HWW-352

HWW-353

HWW-354

HIGH VOLTAGE VERSION | PRODUCT INTRODUCTION

Appearance Simple appearance, compact structure, surface spraying process to resist corrosion;

Material Die-cast aluminum, tempered glass;

Light source High efficiency SMD LEDs;

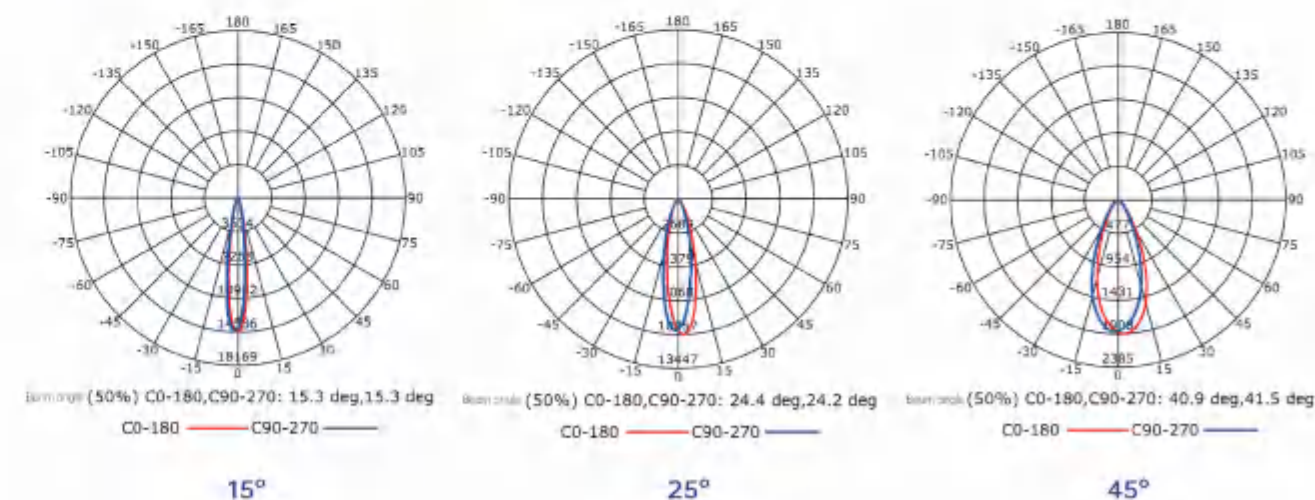
Installation Invisible hydrophobic hole design to avoid water accumulation problem. Meshing bracket to prevent sliding; the bending bracket can be installed directly using an electric batch;

Protection IP65, IK06;

Application Suitable for pole installation, Building façade, outdoor advertising, square and park landscape lighting, sculpture and monument lighting;

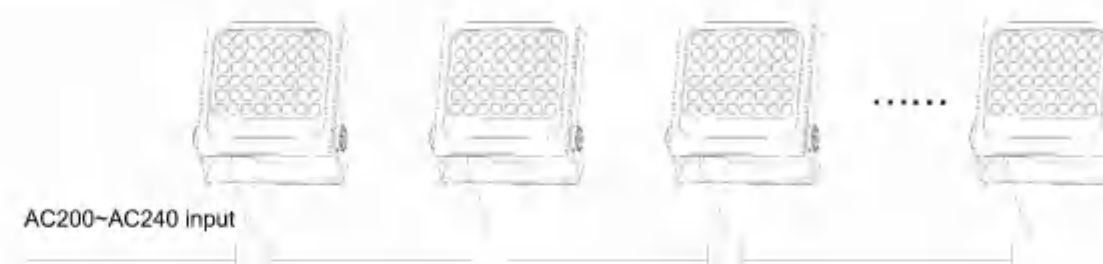
Models	HWW-351	HWW-352	HWW-353	HWW-354
Power	8/12/15W	18/24/36W	36/48/54/60W	60/72/84/100W
Luminous Efficiency	70LM/W (W), 40 LM/W (RGBW)			
Luminous Flux	W	800lm	1400lm	3000lm
	RGBW	/	/	2,400lm
CCT	3000K/4000K/5700K /RGBW			
SDCM	Sdcm<5 (White Light)			
Input Voltage	AC200~240V			
Power Consumption	8/12W	18/24/36W	36/48/54/60W	60/72/84/100W
THD	< 20%			
Surge Protection	(HWW-351-352)L-N 2KV L/N-PE 3KV (HWW-353-354)L-N 6KV L/N-PE 6KV			
Surface Treatment	Surface Spray / Gray			
Material	Lamp Body: Die-cast Aluminum Light-emitting Surface: Glass			
Cable	Rubber Thread3x0.75mm ² (L=240mm)			
Weight	0.84KG	1.04KG	1.52KG	2.17KG
Waterproof	Waterproof Structure, Built-in Anti-siphon Device			
Installation	Bracket Fixed Installation			
Optional Accessories	Anti-glare reflector			
Working Temperature	-30°C ~ 45°C			
Lifespan	L70@25°C 30000H			
Certifications	CQC, CE			
CRI	Ra>80(White Light)			
Beam Angle	15°, 25°, 45°			
Power Factor	≥0.92			

HIGH VOLTAGE VERSION | LUMINOUS DISTRIBUTION



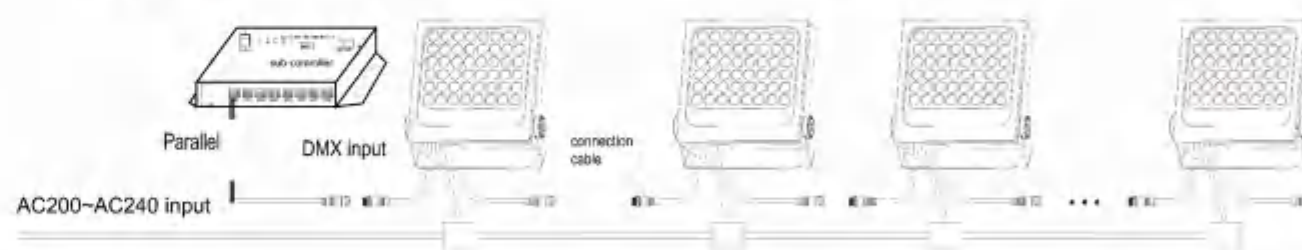
HIGH VOLTAGE VERSION | WIRING SCHEMATIC DIAGRAM

Wiring Diagram(Monochrome)



Note: The lamp must be reliably grounded; The lamp cannot be dimmed and cannot be used in series with a dimmer.

Wiring Diagram(RGBW)





HWW-351



HWW-352



HWW-353



HWW-354

LOW VOLTAGE VERSION | PRODUCT INTRODUCTION

Appearance Simple appearance, compact structure, surface spraying process to resist corrosion;

Material Die-cast aluminum, tempered glass;

Light source High efficiency SMD LEDs;

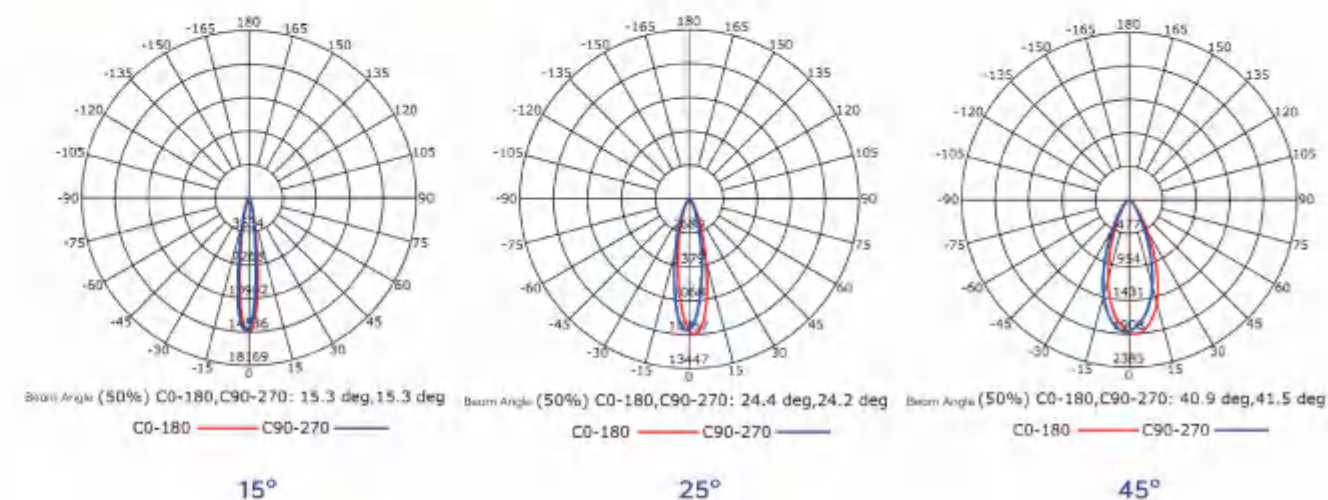
Installation Invisible hydrophobic hole design to avoid water accumulation problem;
Meshing bracket to prevent sliding; the bending bracket can be installed directly using an electric batch;

Protection IP65, IK06;

Application Building façade, outdoor advertising, square and park landscape lighting, sculpture and monument lighting.

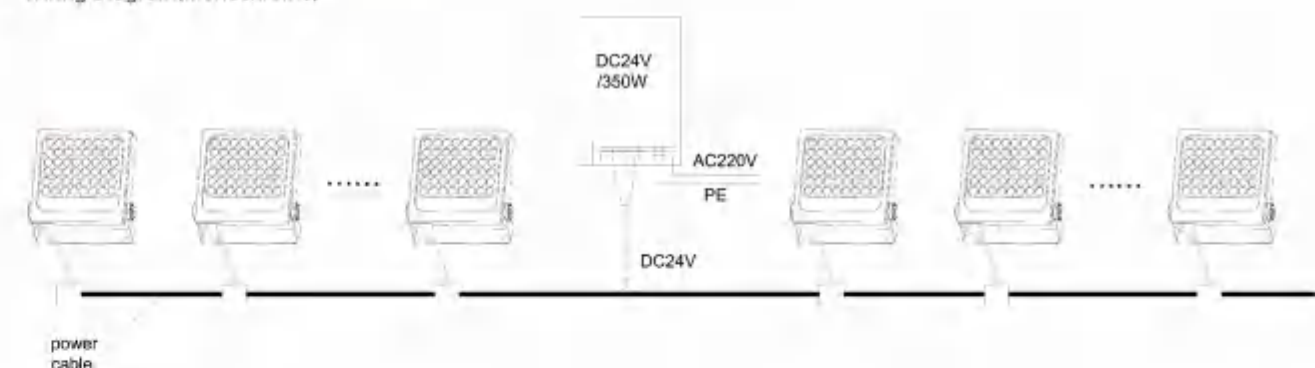
Models	HWW-351	HWW-352	HWW-353	HWW-354
Power	8/12/15W	18/24/36W	36/48/54/60W	60/72/84/100W
Luminous Efficiency	75LM/W (W), 45 LM/W (W+W), 25 LM/W (RGBW)			
Luminous Flux	W	800lm	1400lm	3000lm
	RGBW	/	/	5200lm
CCT	3000K/4000K/5700K/W+W/RGBW			
SDCM	Sdcm<5 (White Light)			
Input Voltage	DC24V			
Power Consumption	8/12/15W	18/24/36W	36/48/54/60W	60/72/84/100W
THD	/			
Surge Protection	/			
Surface Treatment	Surface Spray / Gray			
Material	Lamp Body: Die-cast Aluminum Light-emitting Surface: Glass			
Cable	Rubber Thread3x0.75mm ² (L=240mm)			
Weight	0.84KG	1.04KG	1.52KG	2.17KG
Waterproof	Waterproof Structure, Built-in Anti-siphon Device			
Installation	Bracket Fixed Installation			
Optional Accessories	Anti-glare reflector			
Working Temperature	-30°C ~ 45°C			
Lifespan	L70@25°C 30000H			
Certifications	CQC, CE			
CRI	Ra>80(White Light)			
Beam Angle	15°, 25°, 45°			
Power Factor	1			

LOW VOLTAGE VERSION | LUMINOUS DISTRIBUTION

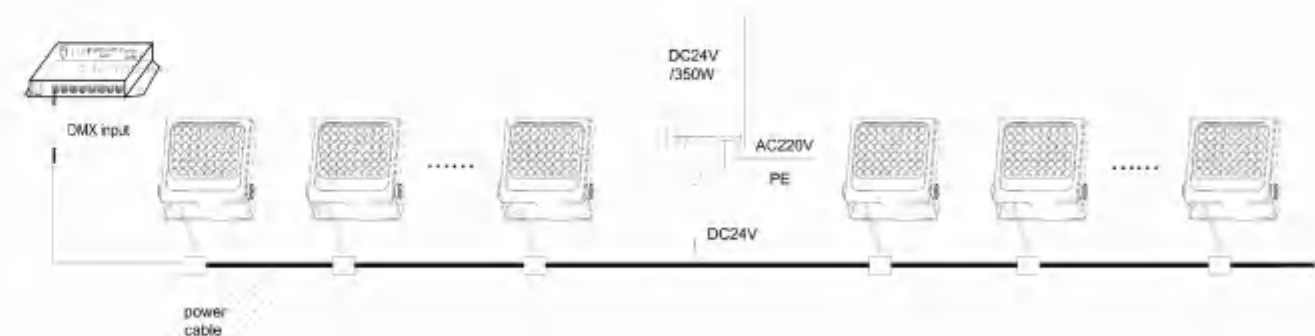


LOW VOLTAGE VERSION | WIRING SCHEMATIC DIAGRAM

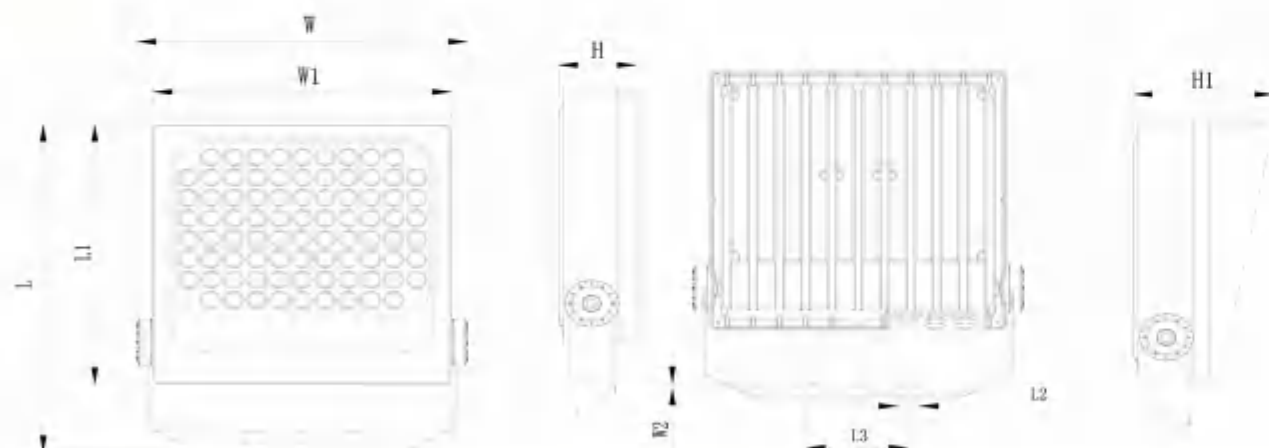
Wiring Diagram(Monochrome)



Wiring Diagram(RGBW)



PRODUCT SIZE



Models	L	L1	W	W1	H	H1	W2	L3	L2
HWW-351	155	105	130	105	61	96	9	50	15
HWW-352	196	138	155	130	62	102	9	50	15
HWW-353	237	180	205	180	61	106	9	80	18
HWW-354	297	235	260	235	61	111	9	80	18

Size Unit: mm

INSTALLATION DIAGRAM

Installation Instructions: The lamp is installed with a fixed bracket, can be adjusted by the bracket knob. The maximum rotation angle of the lamp is $\pm 120^\circ$, the illumination angle can be adjusted according to the actual scene requirements.

