

# SWISS LED



We deliver the Next-generation lighting. Today.



 **SWISS  
LED**  
TECHNOLOGIES FOR THE FUTURE

## Who we are

Based in Switzerland, near Geneva, SWISS LED is an International Manufacturer and Supplier of lighting solutions.

Founded in 2015, SWISS LED is a company engaged in the design, manufacturing and distribution of lighting products, intelligent LED solutions, LED data transmission technology and control systems.

The company is built on three pillars:

PRODUCTS; Lights and Luminaires,

SERVICES; Evaluation, Installation & Maintenance

INNOVATION; Technology and Connectivity.

Our core competence is developing, manufacturing and providing our clients with general and special lighting solutions. The company produces LED luminaires for indoor and outdoor lighting of offices, shopping malls as well as sport facilities, industrial enterprises & public infrastructure, etc.

Over the years we have established solid partnerships with industry leaders like Nichia Corporation in Japan, CREE in the USA and Philips to manufacture and distribute the best quality products possible.

All of our products are manufactured in premises that are certified in one or more of the following standards: ISO 9001:2000, ISO 14001, OHSAS 18001, CE and RoHS, ENEC, TUV.

## What we do

### Light sources

SWISS LED offers you a versatile series of LED Lamps (bulbs, tubes and panels) that can be implemented in a variety of indoors and outdoors applications.

### Luminaires

Luminaires are essential in creating a comfortable, safe and healthy environment. At SWISS LED we take great pride in offering well engineered and ergonomic luminaires, perfectly adapted to a variety of indoors and outdoors applications.

### Services

**Lighting Project Management** - From lighting studies, installation supervision and maintenance, SWISS LED will guide you through the total life cycle of your most demanding lighting projects.

**Lighting design** - We design unique illumination. Our designers have extensive experience in monumental lighting design worldwide and have created master lighting designs in Andorra, Bahrain, Colombia, South Korea, Spain, Egypt, the United States, France, Britain, Malaysia, Mexico and Turkey.

### Innovation

We have the technology that is required to implement intelligent LED solution. Having resolved various issues related to multiple wired or wireless interconnects, SWISS LED intelligent lighting solution offers a multidirectional communication network for LED-based luminaires. It enables operators to automatically detect failures and monitor operations and accurately consolidate real consumption costs.



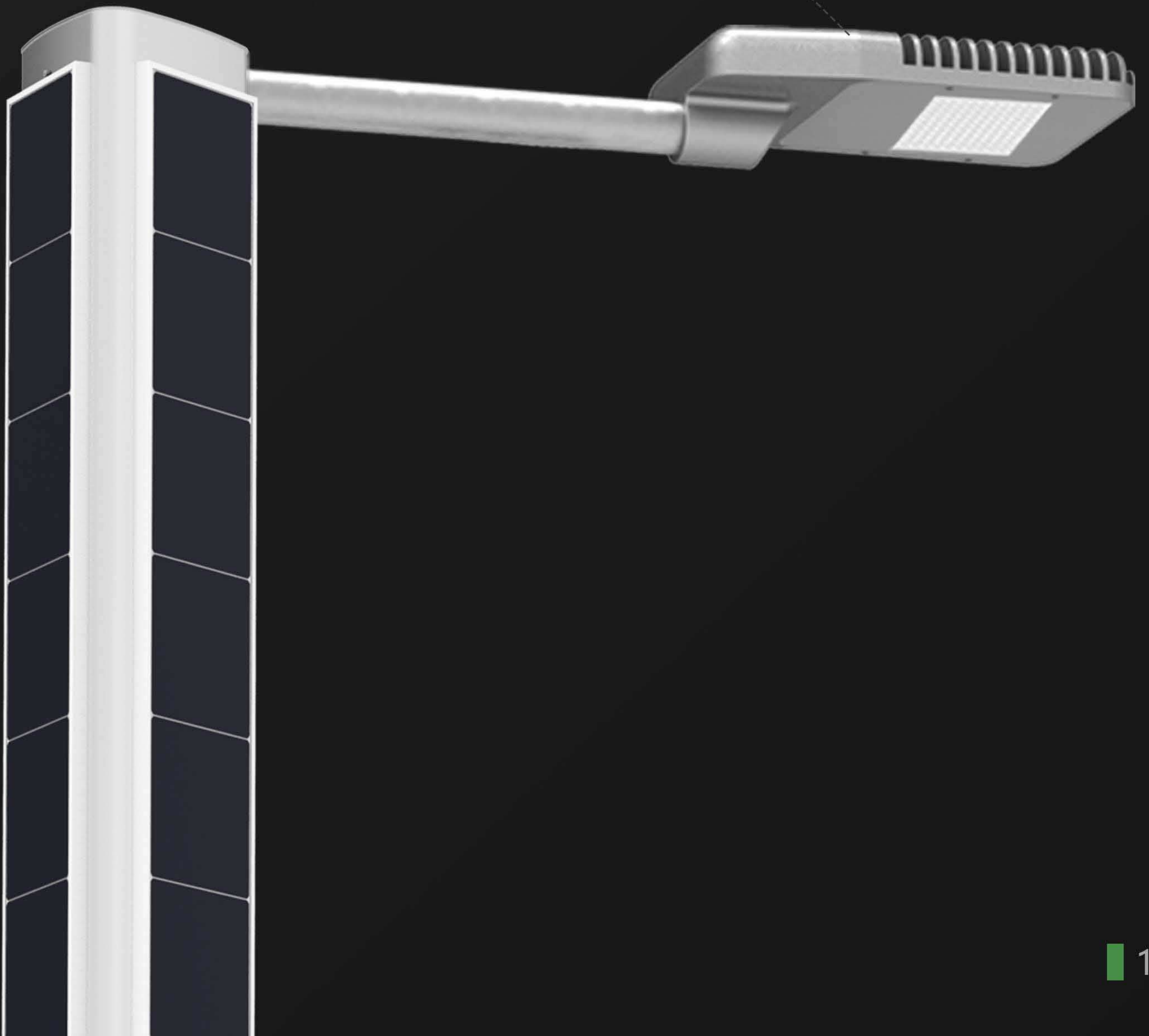


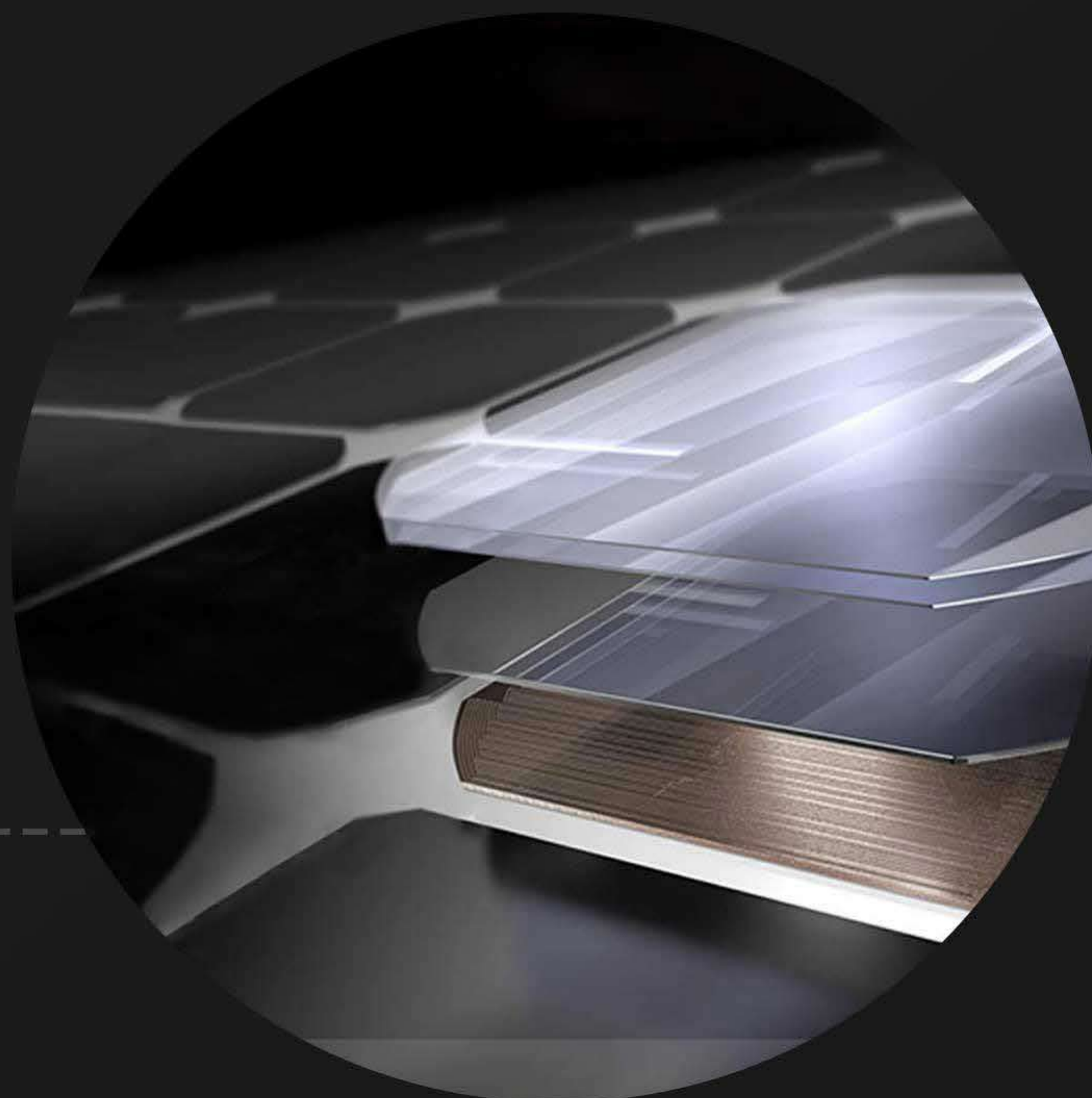
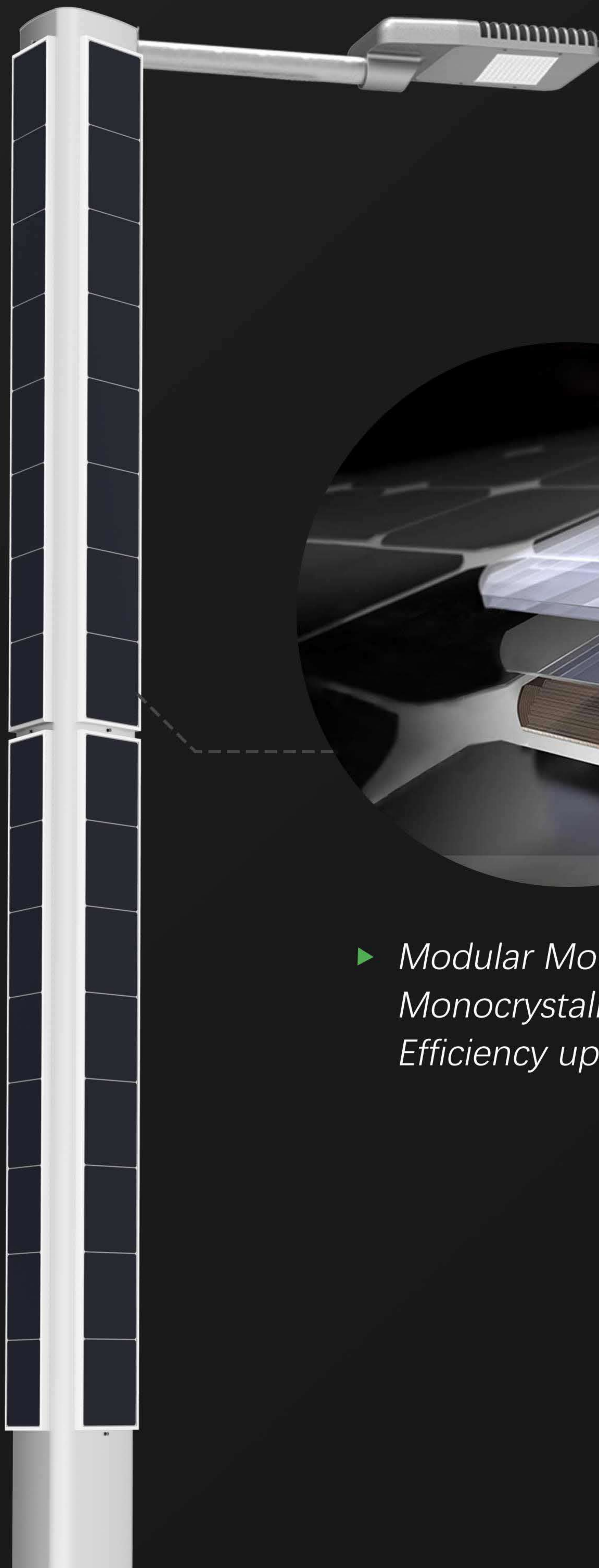
# HELIOS



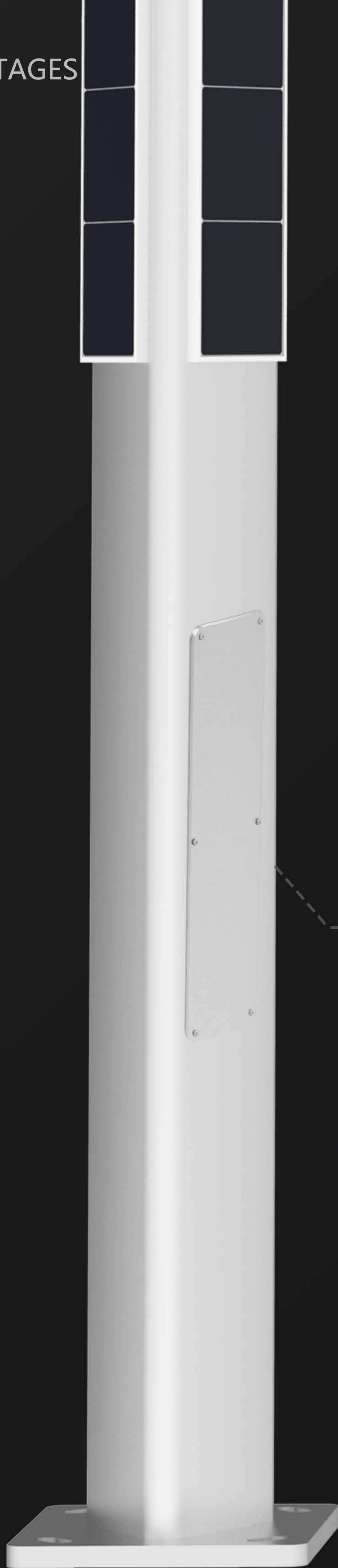


► *Lamps for Option  
Philips 5050 LED Chip  
LED Lifespan > 100000Hrs*





- ▶ *Modular Mounting*  
*Monocrystalline Solar Panel*  
*Efficiency up to 24%*



◀ *Battery placed inside pole*

# ALSO WE HAVE WHAT OTHERS DON'T



Customizable lamp holder



Vertical solar panel



High wind-resistant



Aluminium alloy design



Large battery capacity



Long working hours

Mode NO.	H5	H6	H8	H10
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## Lighting

Light Output	10000LM	15000LM	18000LM	24000LM
LED Chip	High bright 5050			
CCT	2700-6000K (can be customized)			
Life Span	100,000 hours to LM80 specifications			
Working Way	Motion Sensor / IoT / Time Schedule			

## Solar Panel

Power of PV module	160W	240W	320W	400W
Life Span	80% power after 25 years			

## Storage

Battery Capacity	1000WH	1200WH	1800WH	2400WH
Lighting time in rainy day	>10 days			
Life Span	4000 Cycles (>10 years)			

## Charging Controller

Life Span	>12 years
Working Mode	MPPT
Control Mode	Intelligent, activated by sunlight

## Environment

Working Temperature	-15°C to +70°C
Water Resistance	IP65

## Solar Panel Autoclean

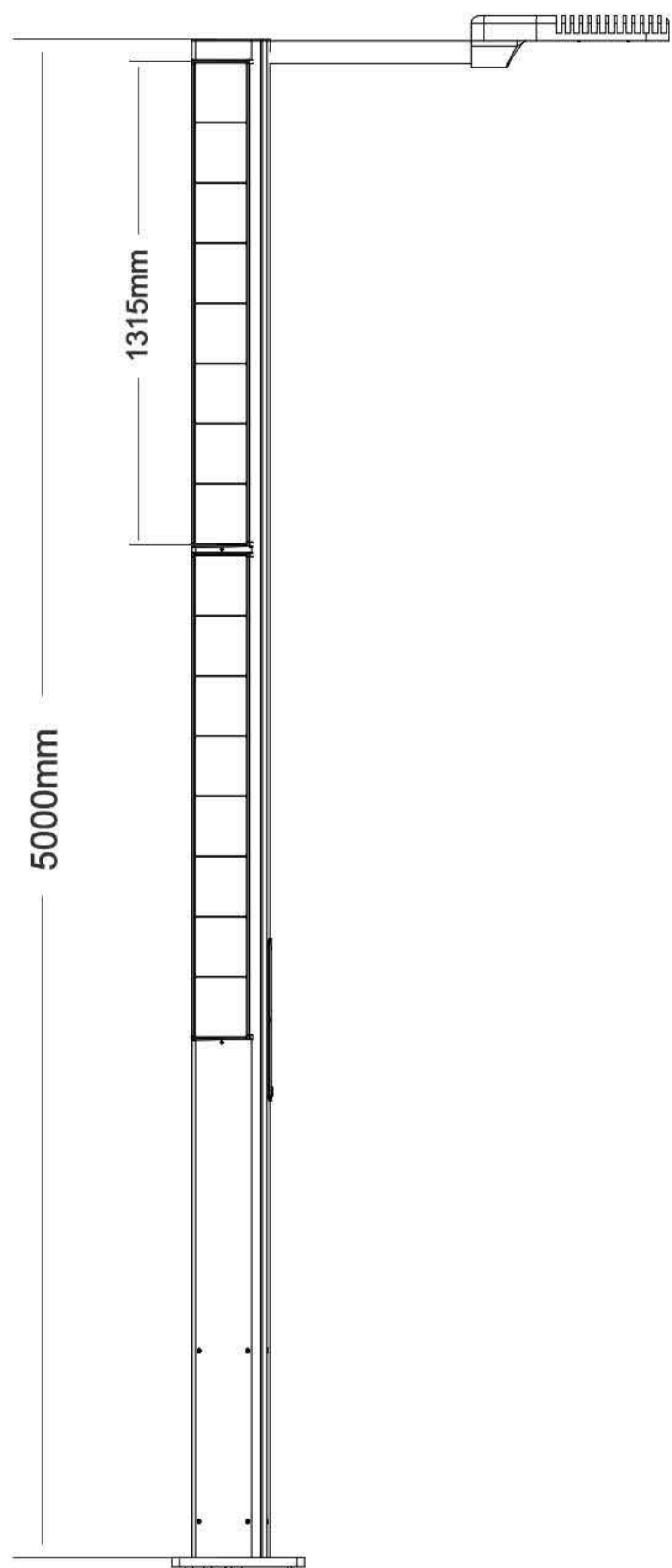
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## Mechanical Specifications

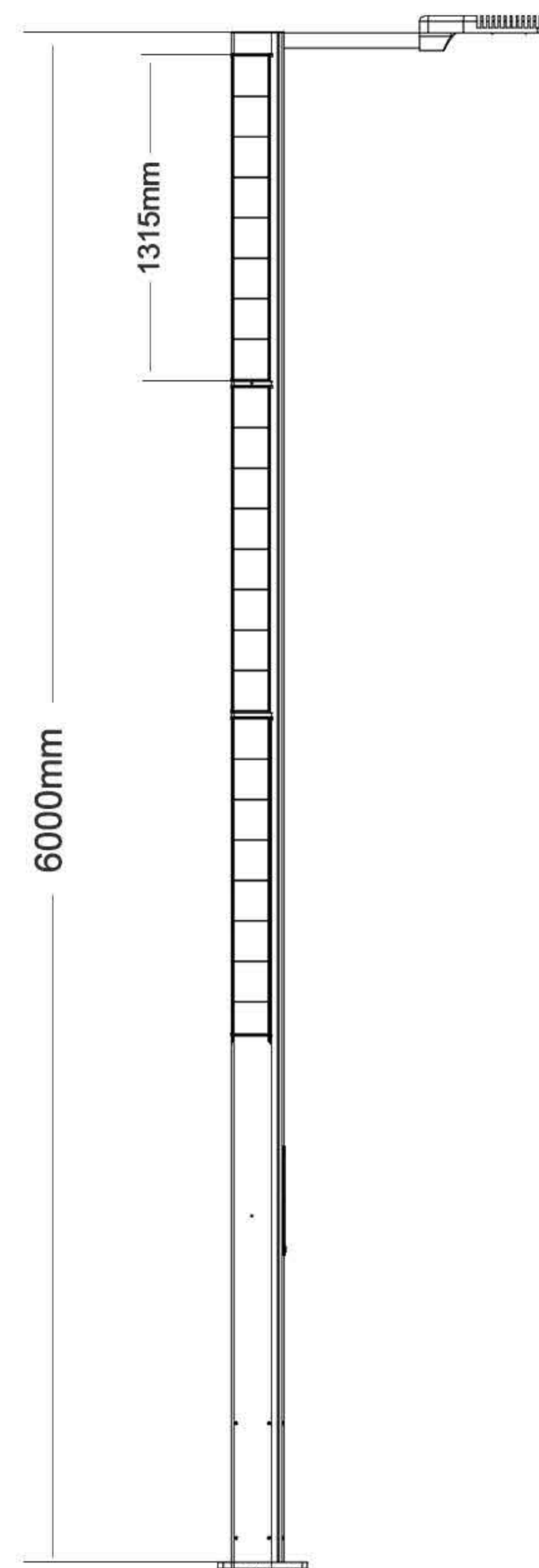
Recommended Pole Height	5m	6m	8m	10m
Net Weight (Kg)	93.1	106.6	126.4	151.9
Package Dimension (mm)	5000*280*280	6000*406*84	8000*406*84	10000*406*84



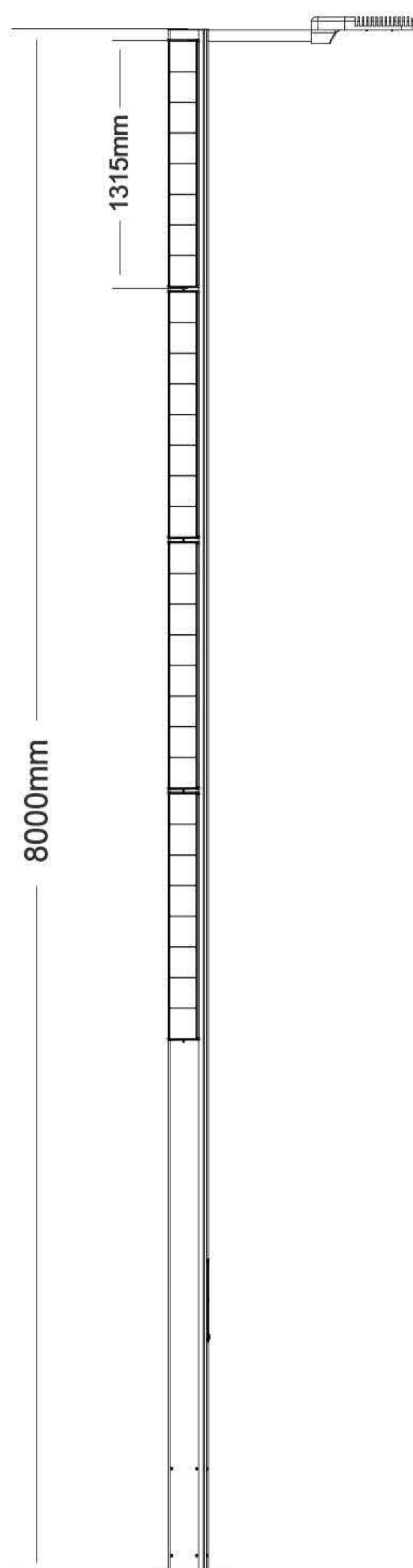
H5



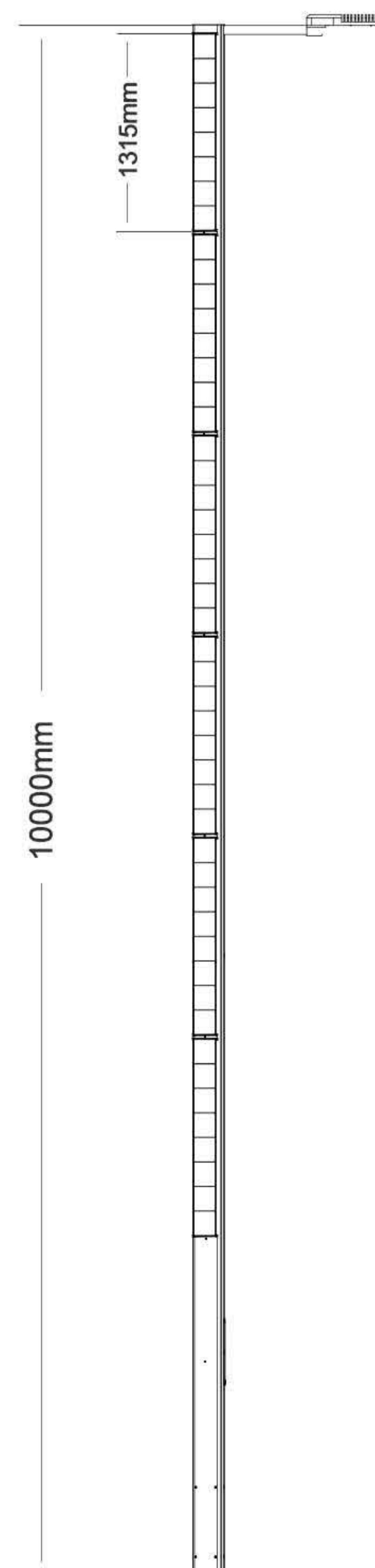
H6



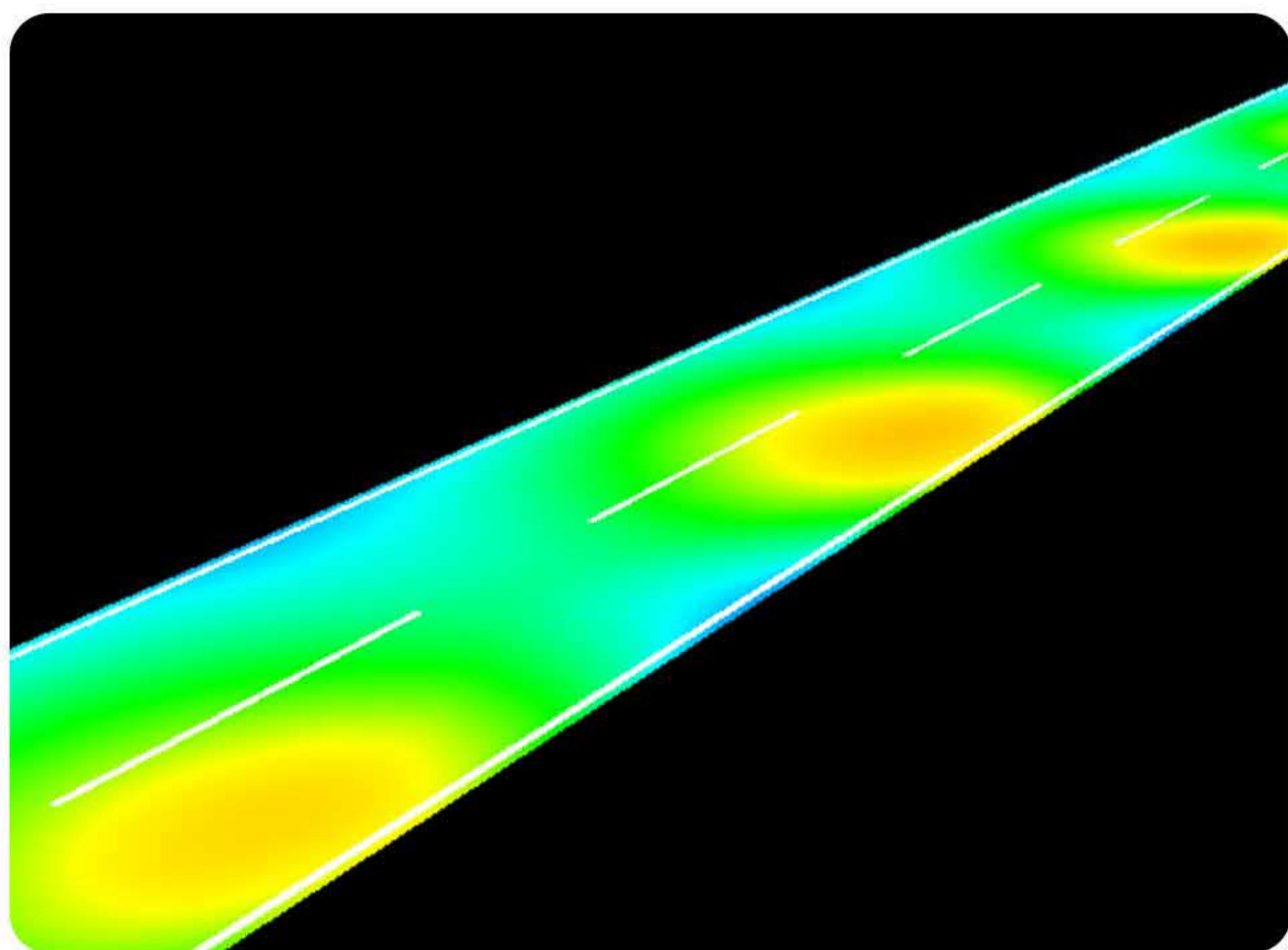
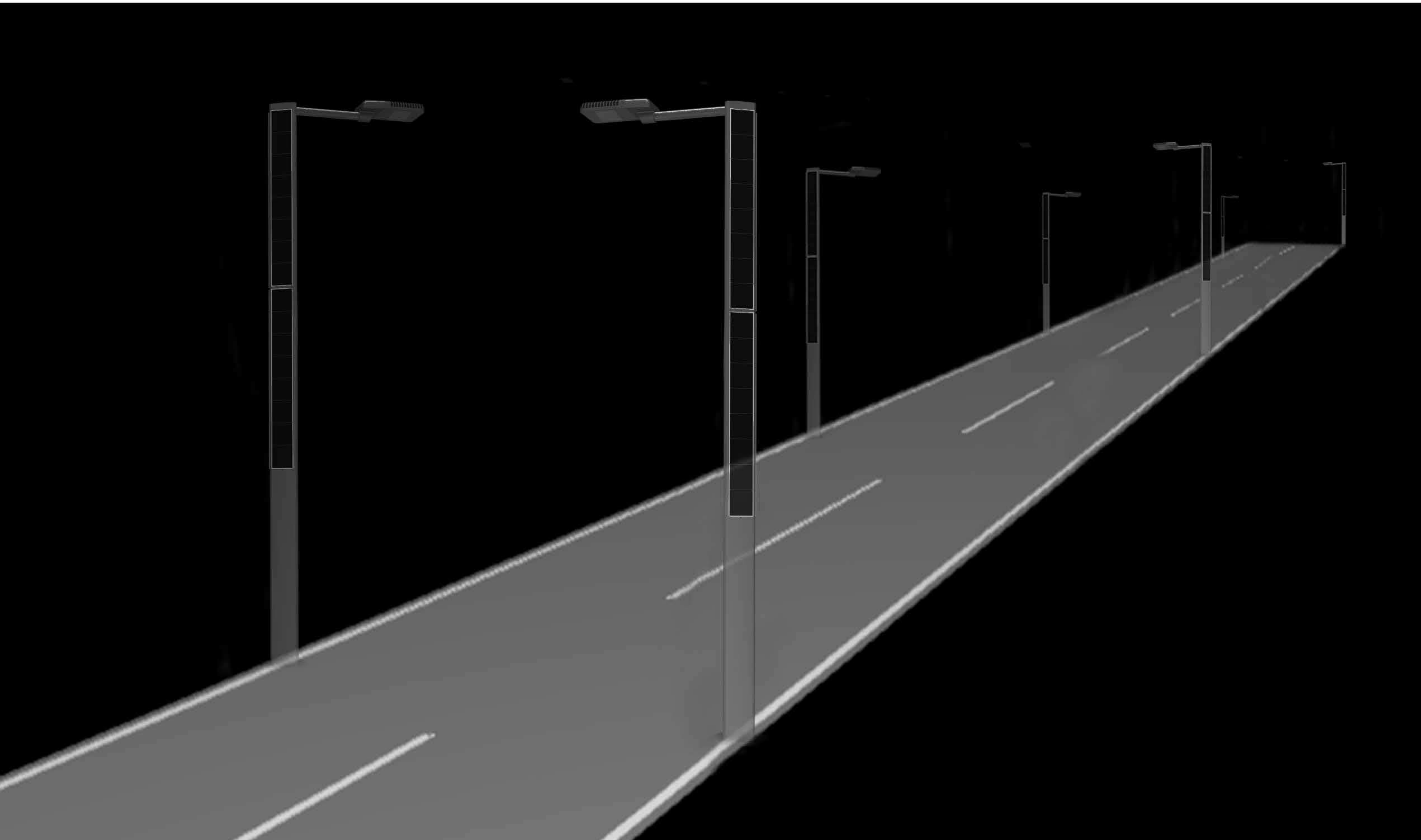
H8



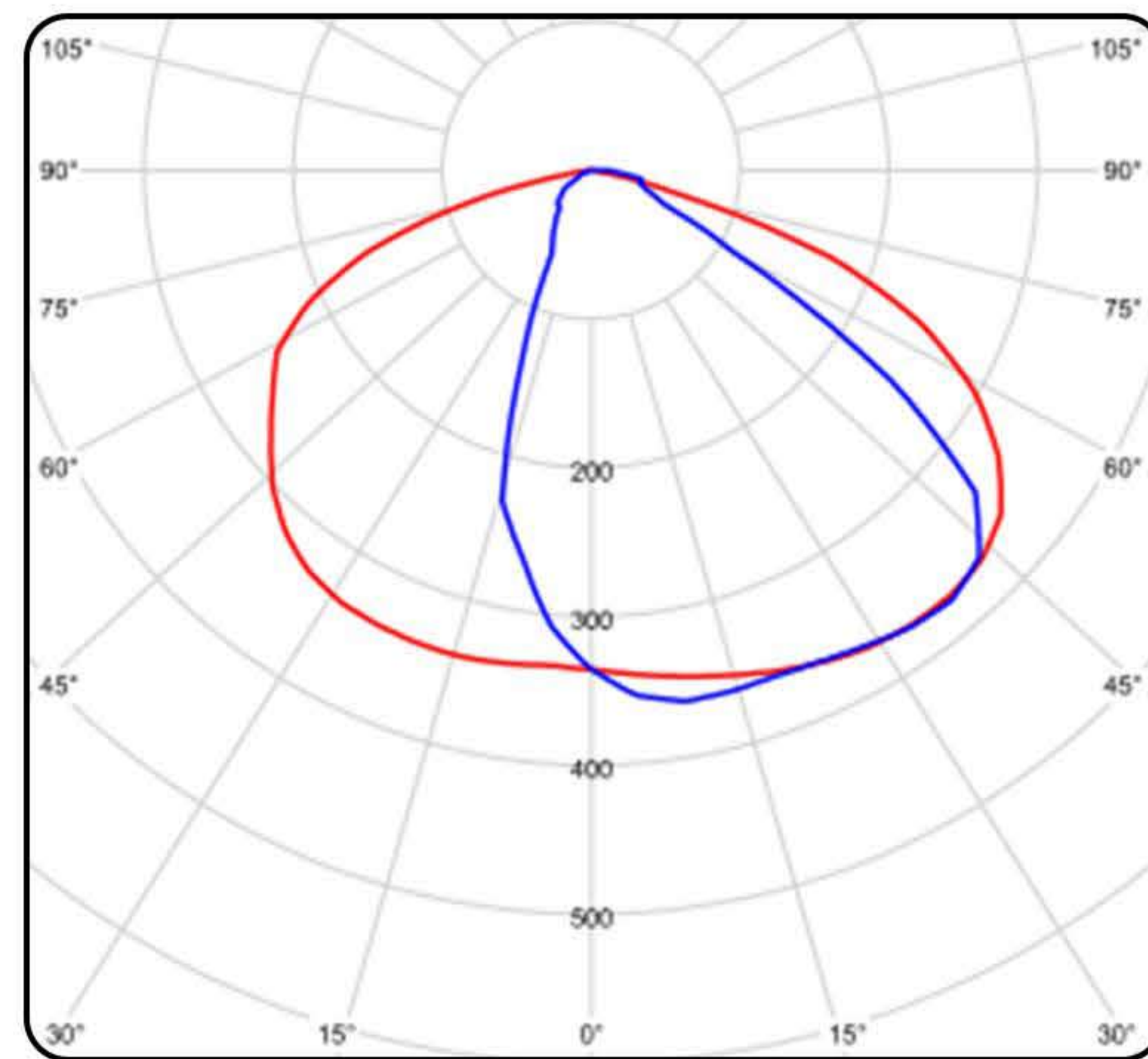
H9



HELIOS-H5/H6/H8/H10



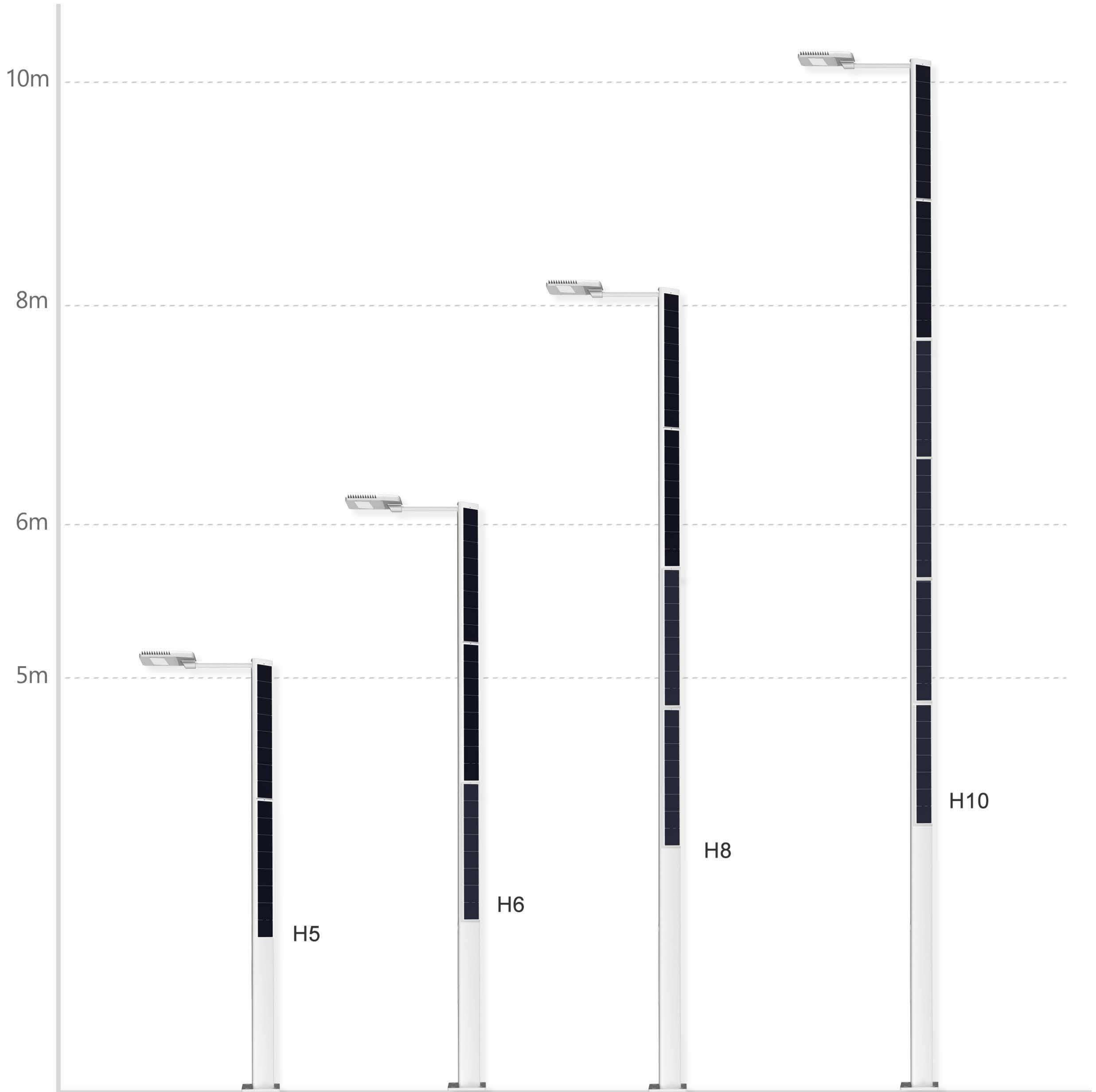
Road Simulated Diagram



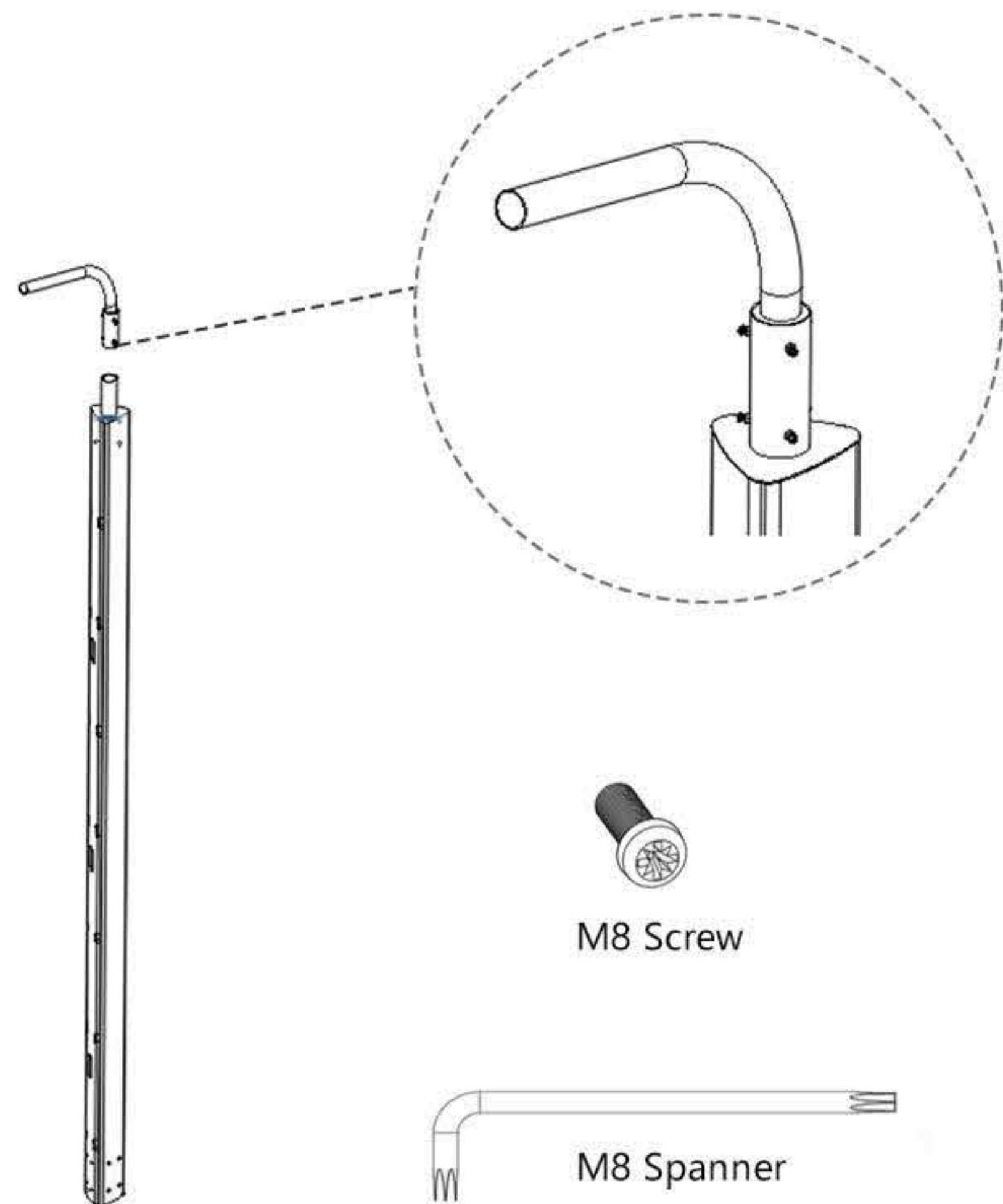
Light Distribution Curve

# HELIOS | LIGHT POLE DIAGRAM

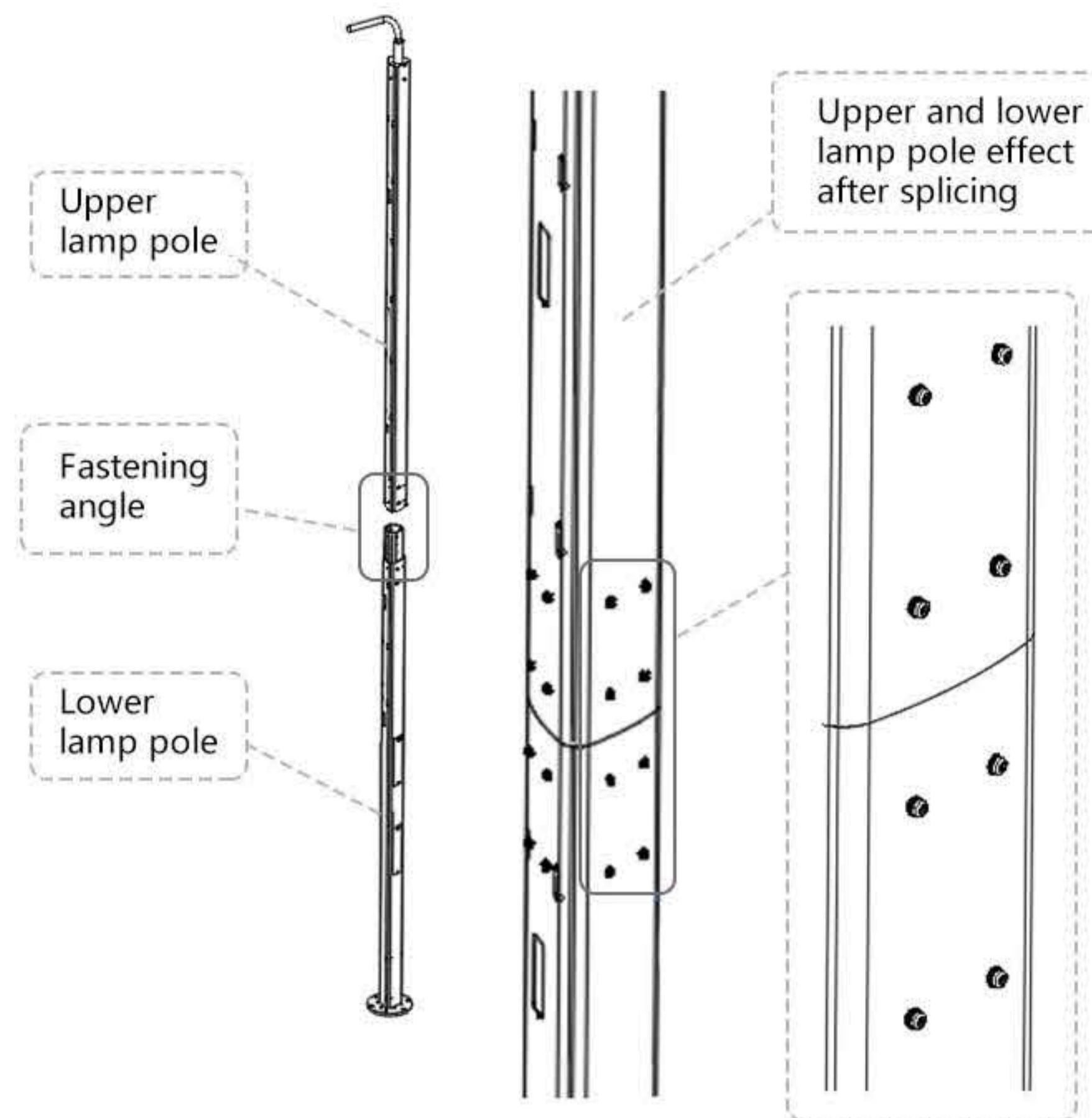
HELIOS-H5/H6/H8/H10



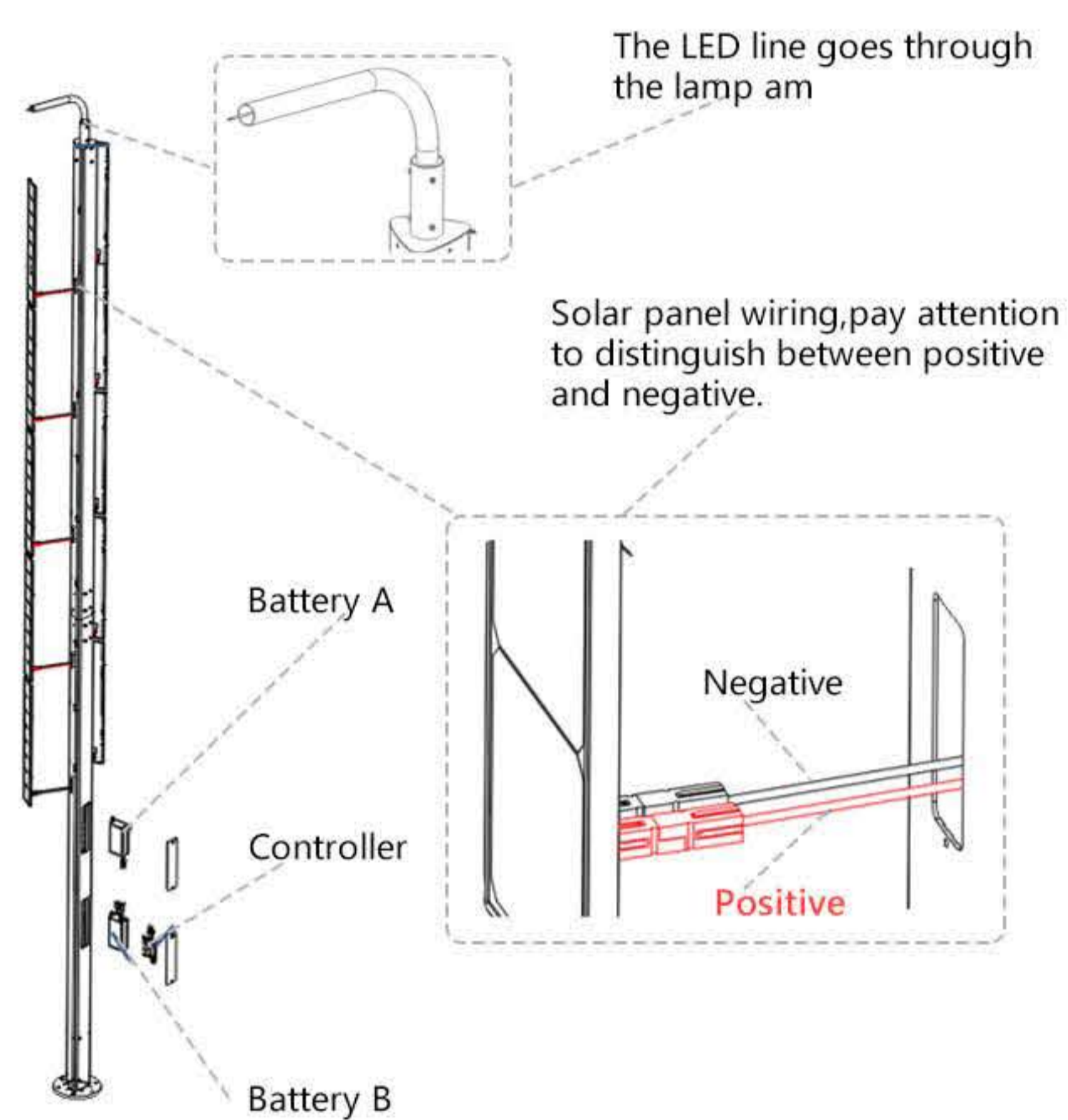
- 1.** Fix the lamp arm and adapter with M8 screws as shown in the figure. (Note: the lamp arm must be installed in place and the screws must be locked).



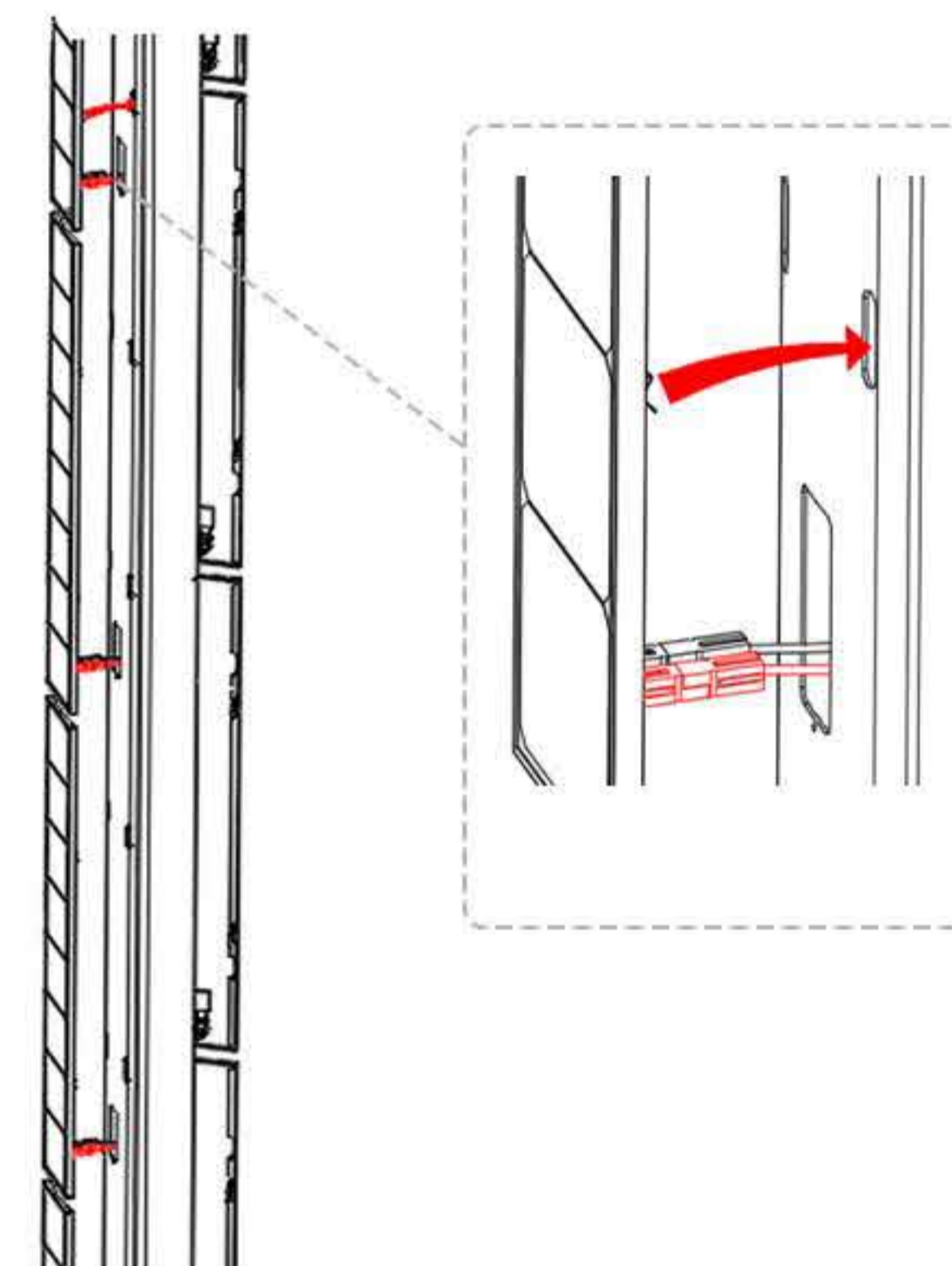
- 2.** Light pole docking (Note: when installing the upper and lower lamp poles, first loosen the screws at the junction of the lower lamp poles, and then tighten the screws in place together after the upper and lower lamp poles are aligned).



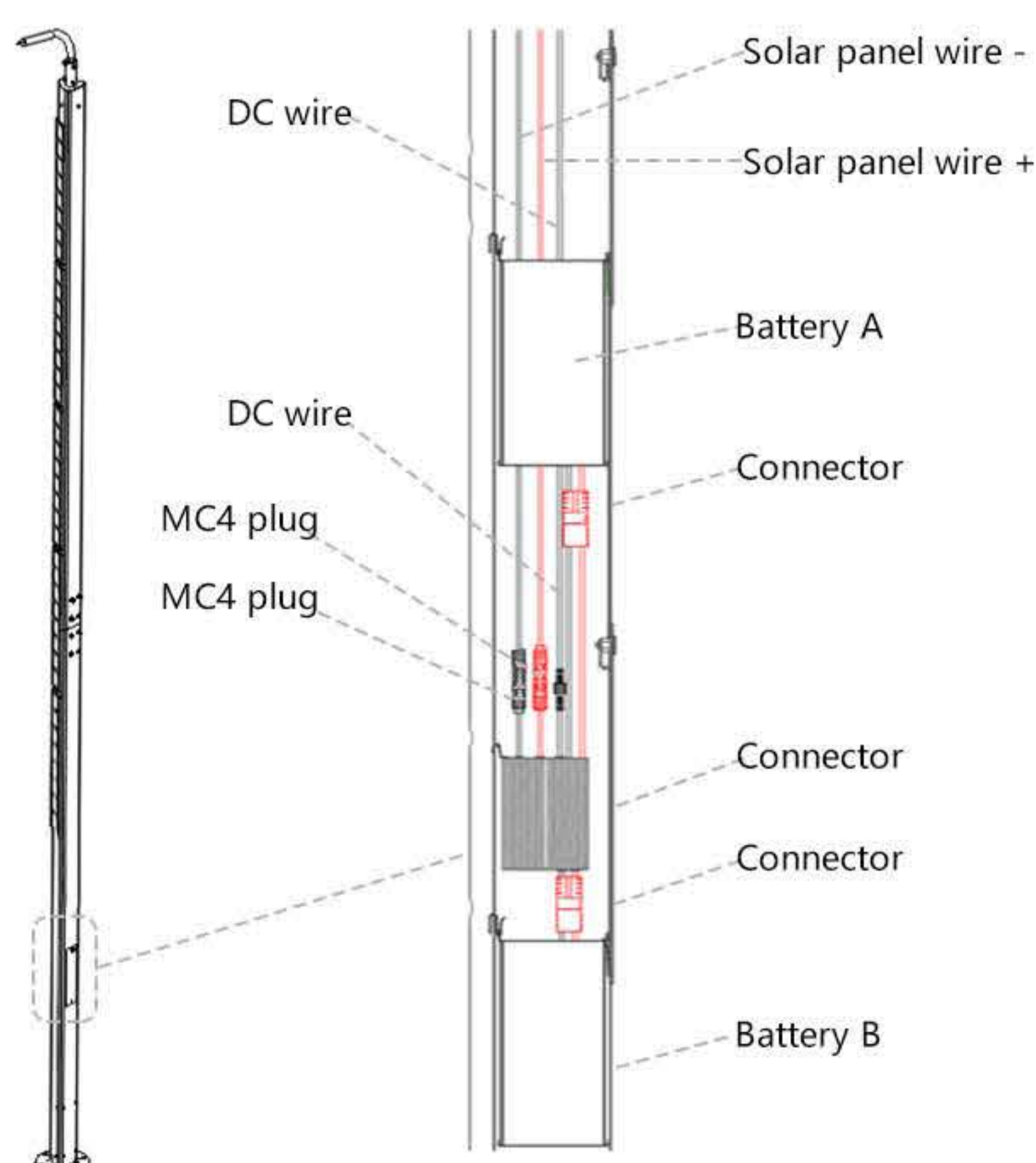
- 3.** The red one is the positive terminal and the black one is the negative terminal. The terminals of the same color are connected and wrapped with electrical tape to prevent falling off. Install the solar panel connected with the LED cable to the corresponding position of the lamp pole, and fasten the spring piece of the solar panel down to the mounting hole.



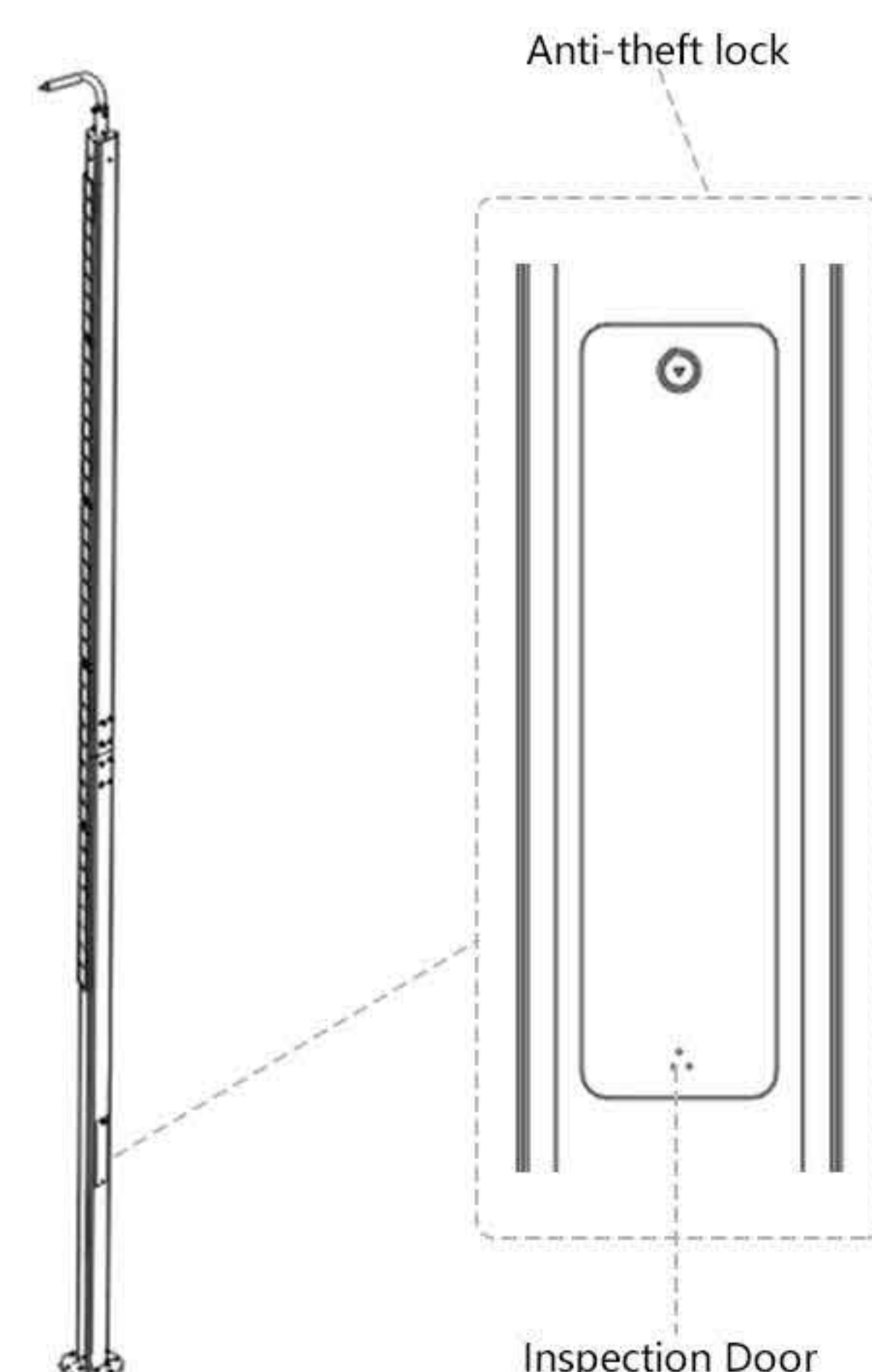
- 4.** The spring piece of the solar panel is fastened down the mounting hole. (Pay attention to installing the solar panel from the bottom to the top, and check whether the solar energy is installed in place before installing the lamp pole to prevent falling off and generate safety hazards).



- 5.** Installation of energy package and controller, cable connection:
1. Install the energy package on the lamp pole and fix it with M6 screw;
  2. Connect the positive and negative pole wires of the solar panel with the MC4 plug of the controller;
  3. Install the controller on the lamp pole;
  4. Connect the LED cable with the controller.



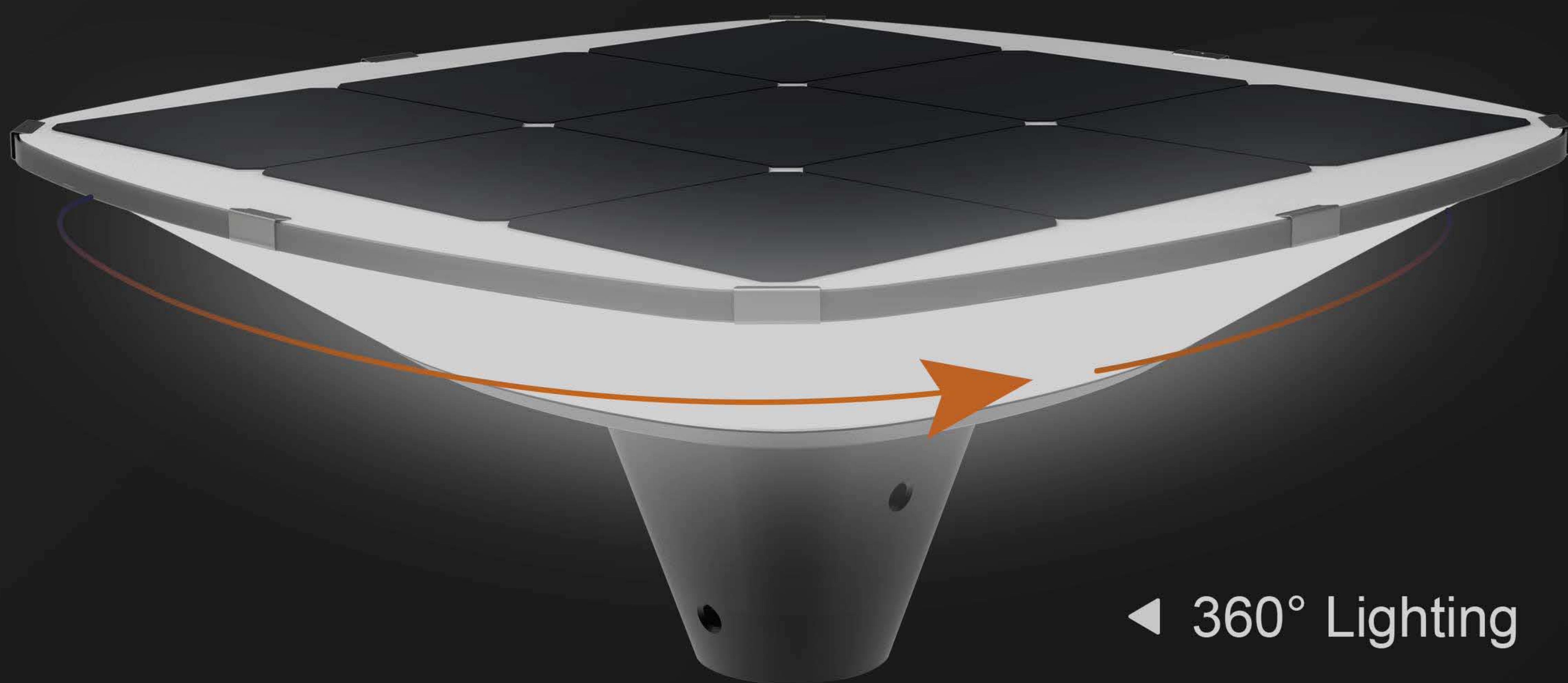
- 6.** Inspection Door Installation Cover the inspection door to the solar lamp pole that is tested and work normally and lock the door with the key. (Note that twisting from the left with the key is locking).



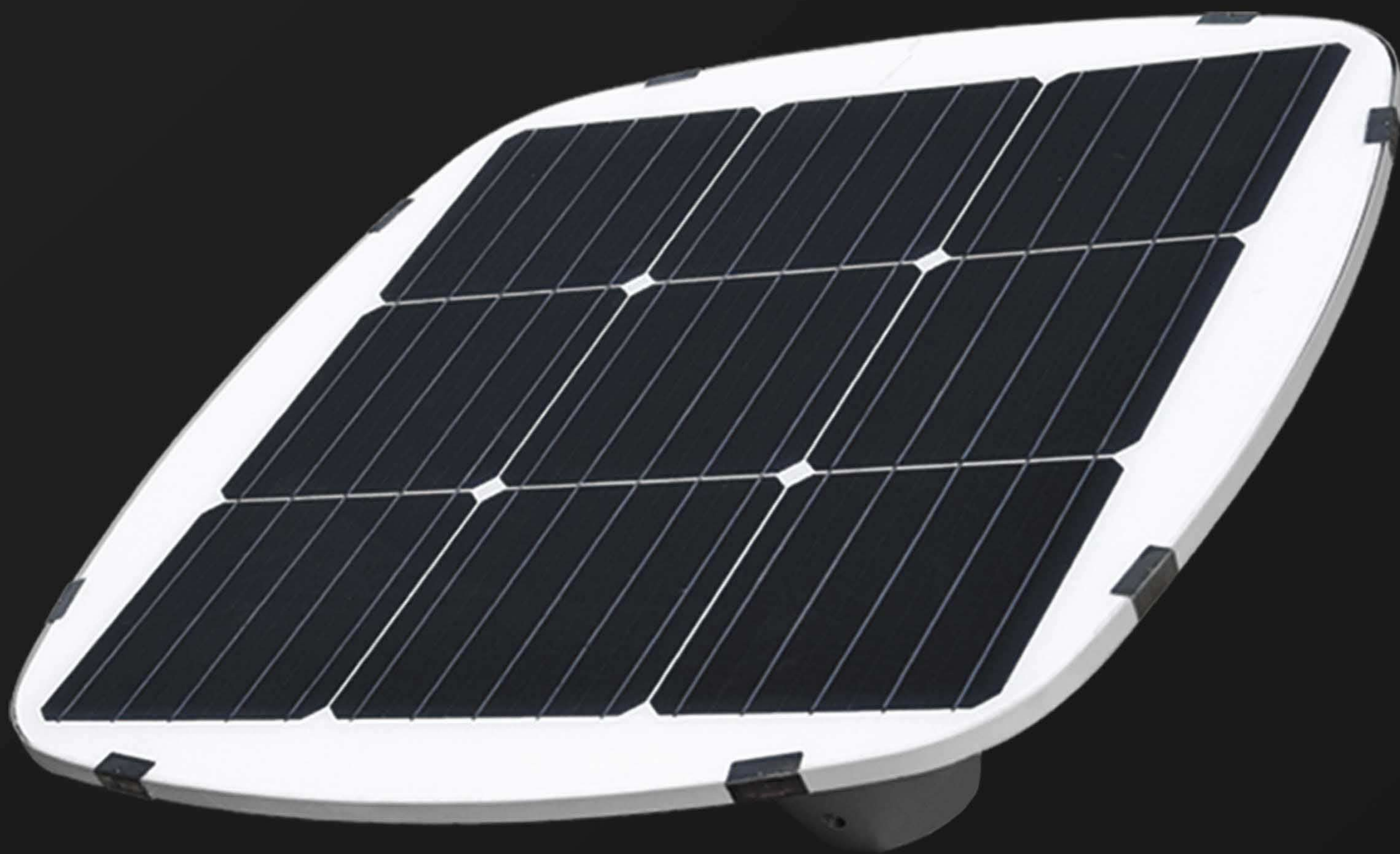


# PALLAS QUAD





◀ 360° Lighting



- ◀ *Mono crystalline silicon solar panel*
- ◀ *5-10° Downward Slope*

▼ 360° surround lighting





Monocrystalline Solar Panel  
Efficiency Up to 24%



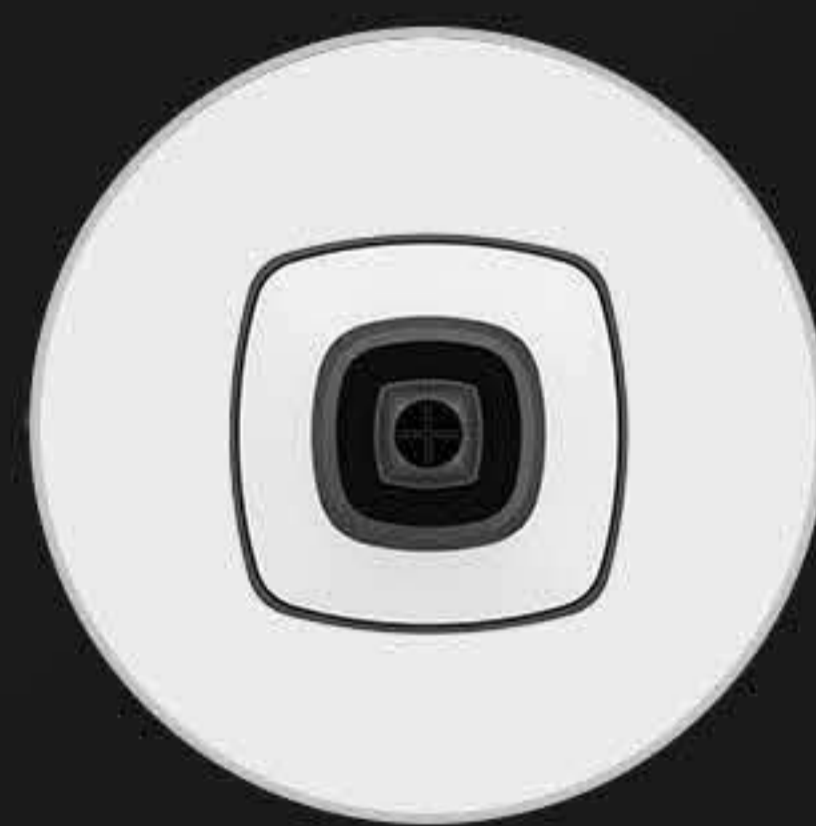
Philips 3030 LED Chip  
LED Lifespan > 100000Hrs



LiFePo4  
Lifespan > 4000 Cycles



Remote Control



360° Lighting Angle



# ALSO WE HAVE WHAT OTHERS DON'T



360° Lighting



Color of LEDs  
can be customized



High efficiency solar panel  
(24% efficiency)



No Wiring  
Zero electricity bills



Die-cast aluminium base



Glare-free lampshade

**Mode NO.** Pallas Quad

**Lighting**

Light Output 3000 - 4200LM  
 LED Chip High bright 3030  
 CCT 2700-6000K (can be customized)  
 Life Span 100,000 hours to LM80 specifications  
 Working Way Motion Sensor / Time Schedule

**Solar Panel**

Power of PV module 45W  
 Life Span 80% power after 25 years

**Storage**

Battery Capacity 275WH  
 Lighting time in rainy day >10 days  
 Life Span 4000 Cycles (>10 years)

**Charging Controller**

Life Span >12 years  
 Working Mode MPPT  
 Control Mode Intelligent, activated by sunlight

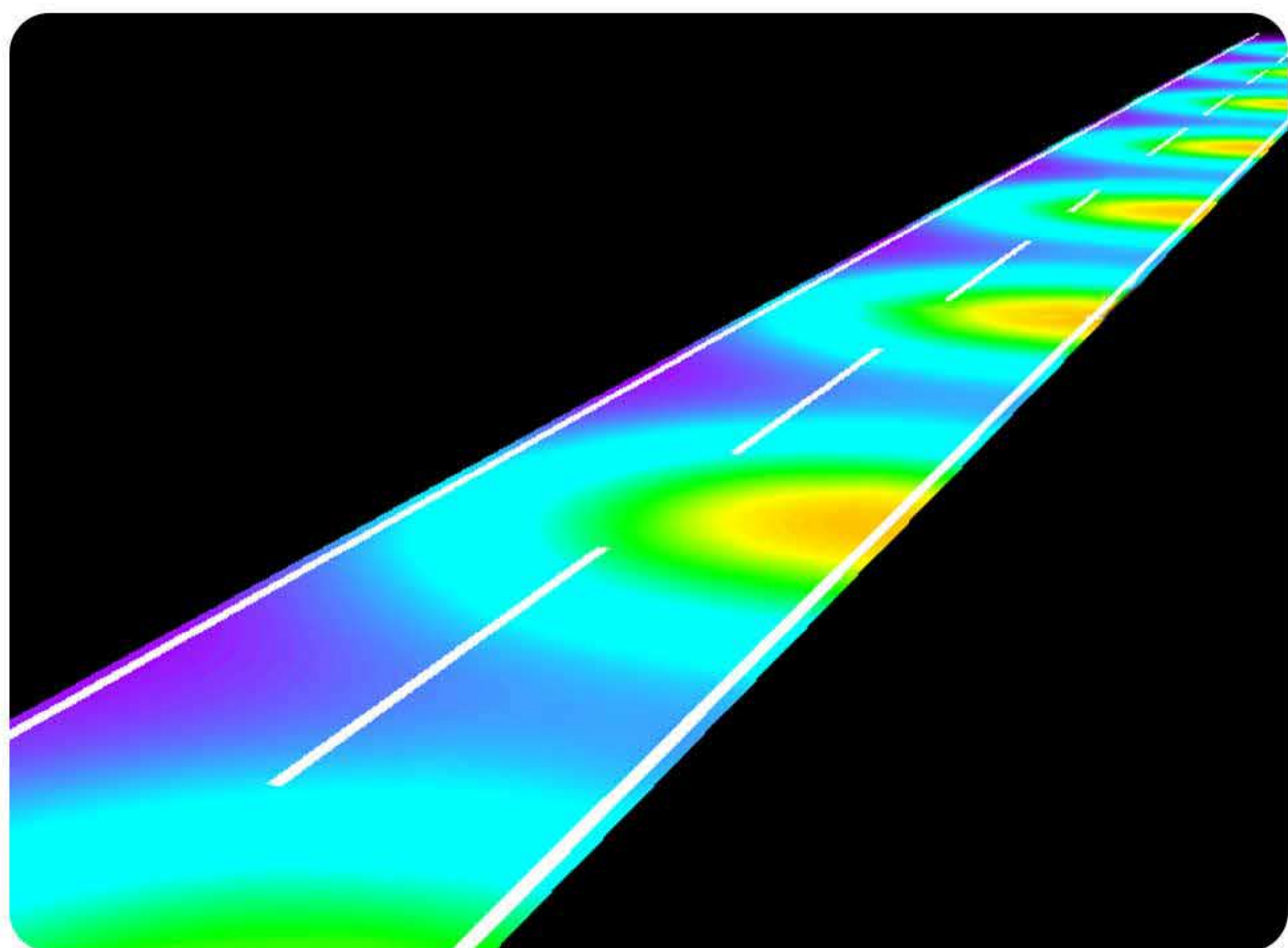
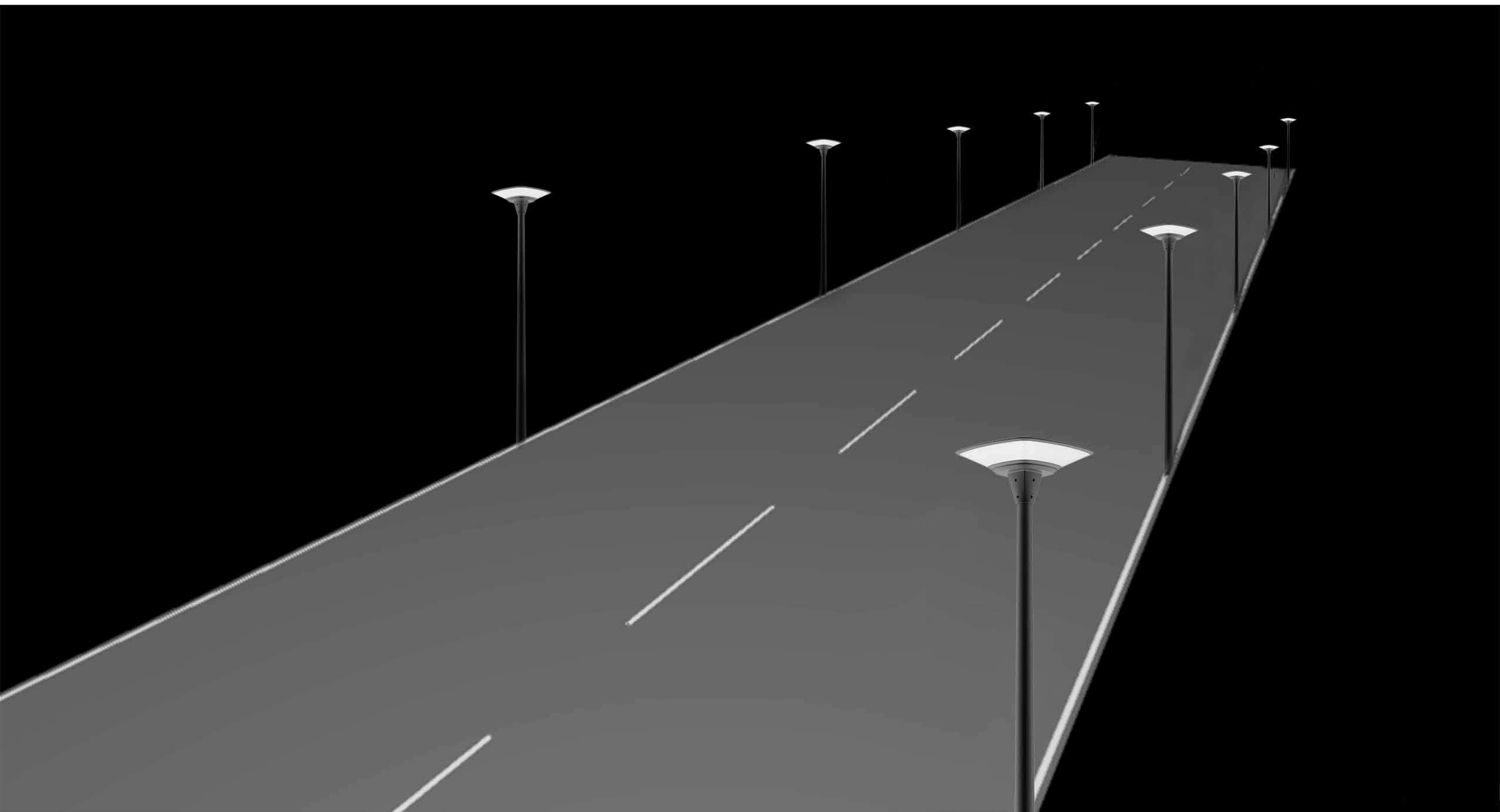
**Environment**

Working Temperature -15°C to +70°C  
 Water Resistance IP65

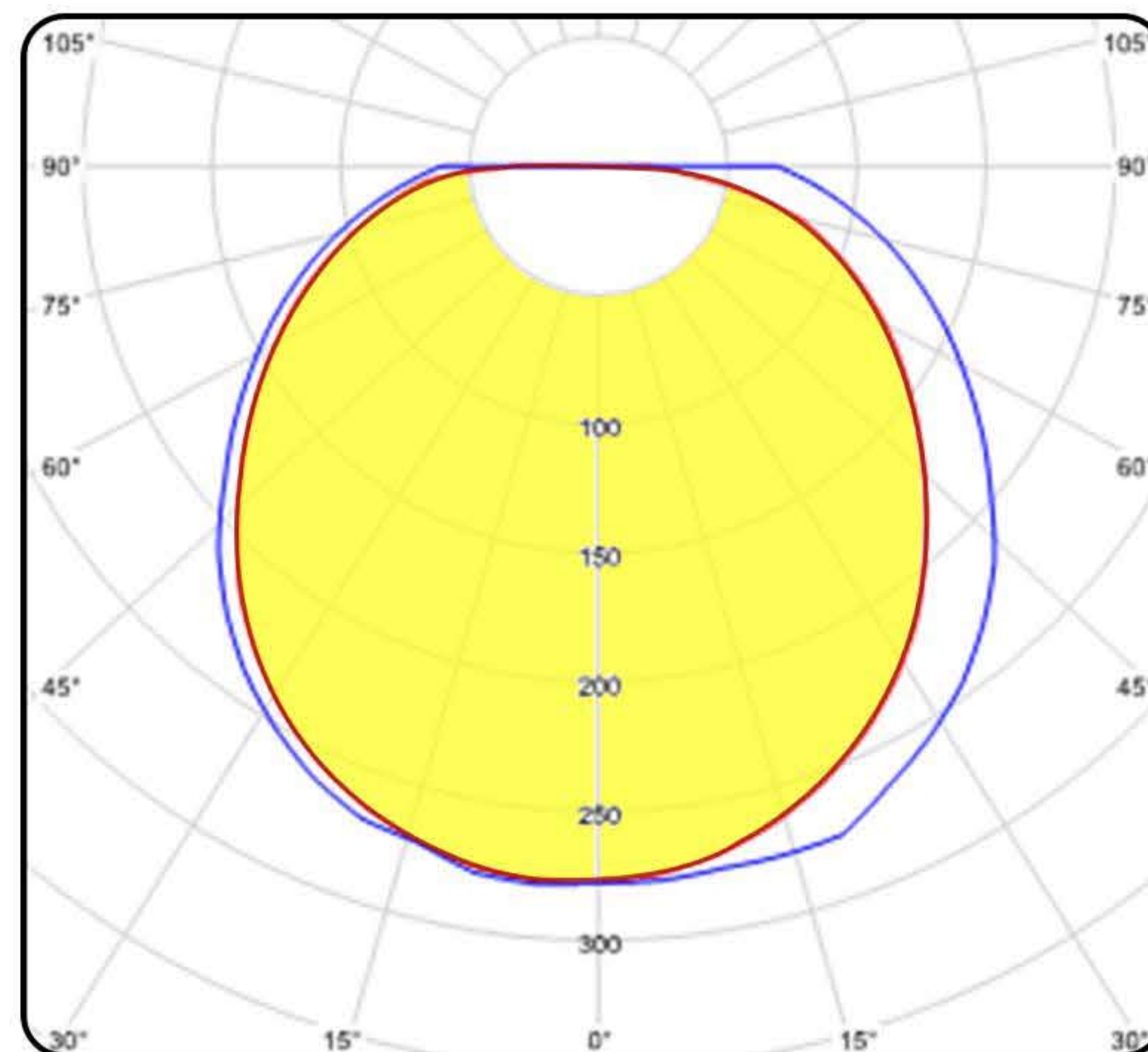
**Solar Panel Autoclean** —

**Mechanical Specifications**

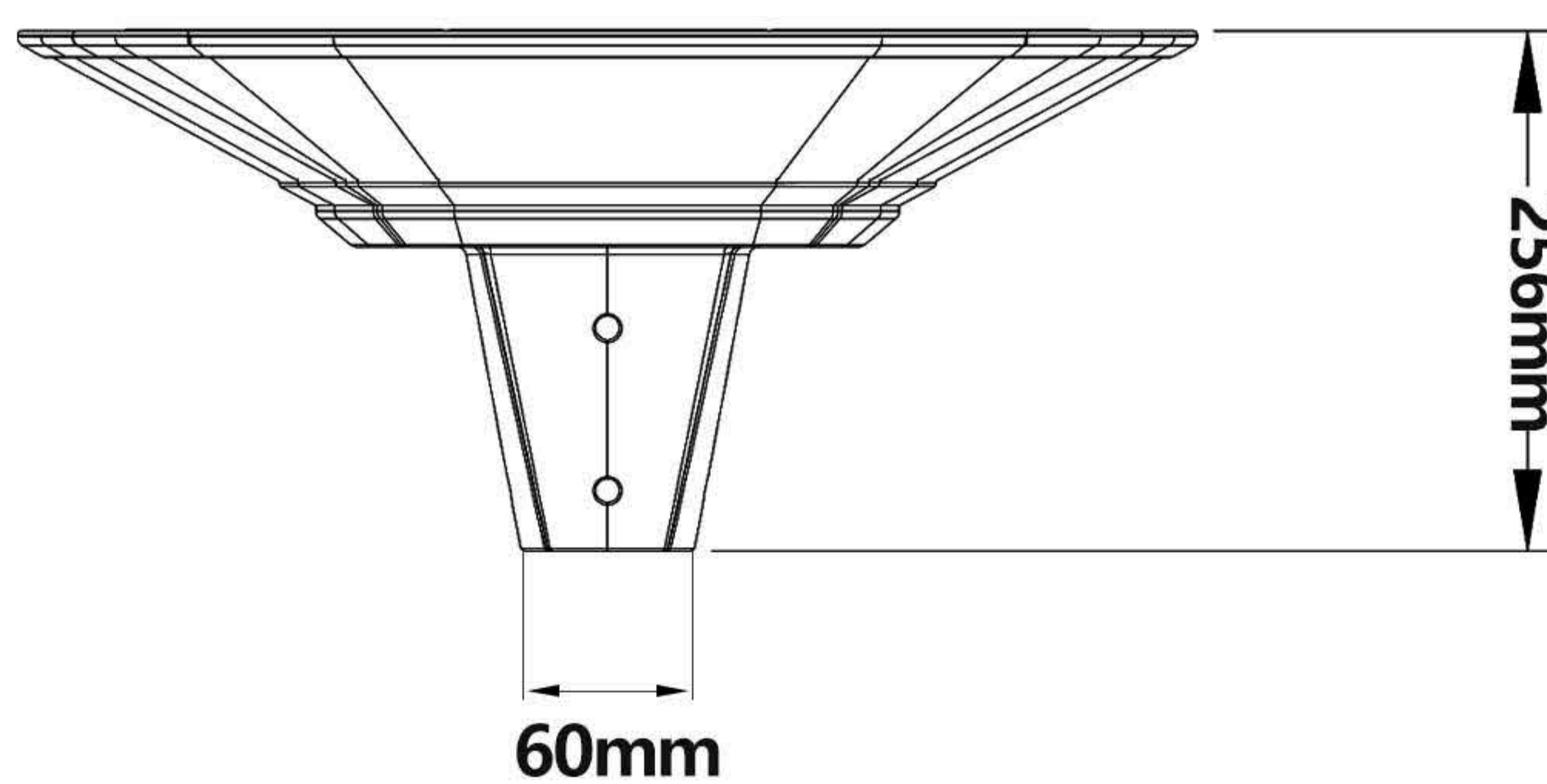
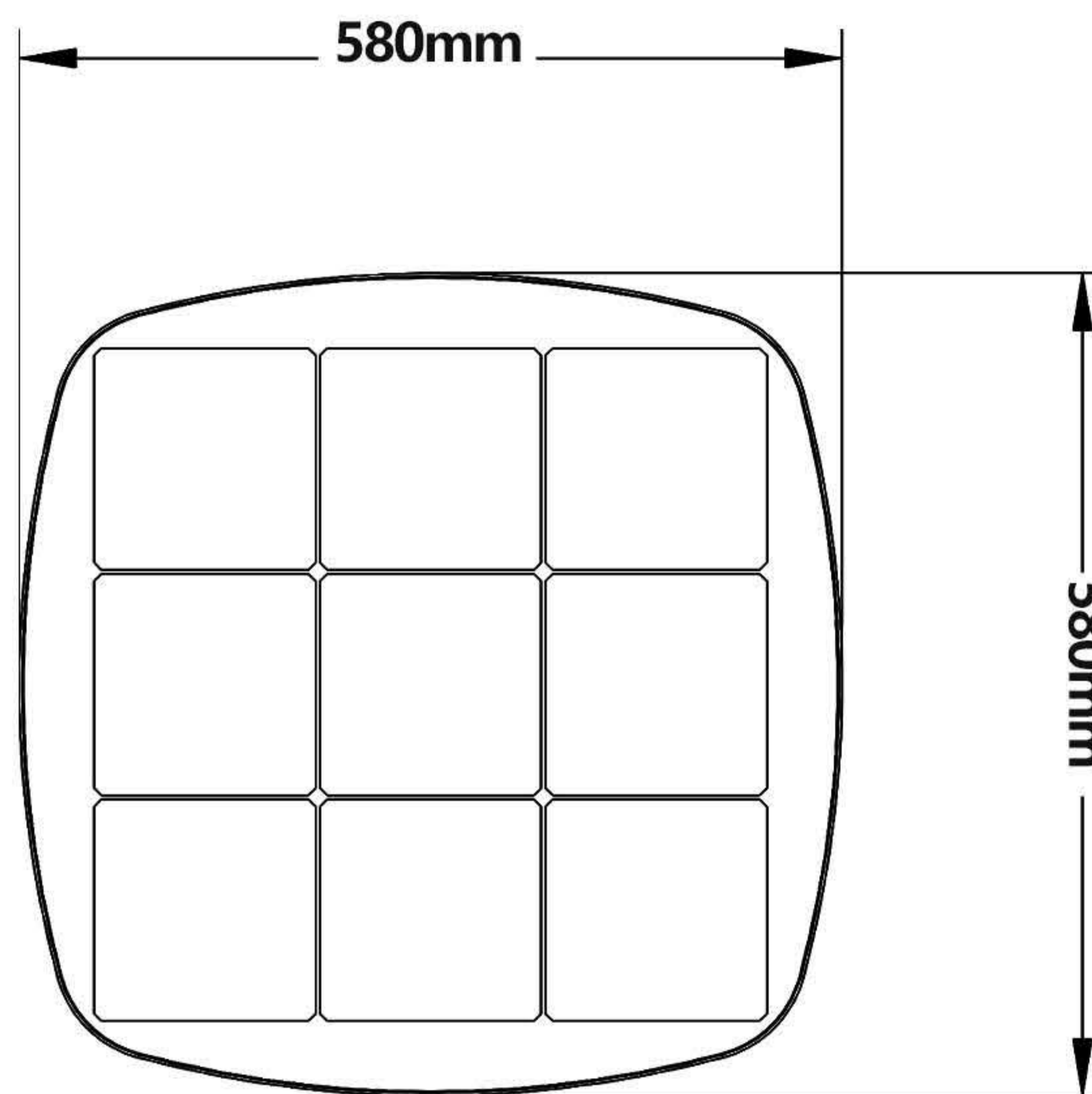
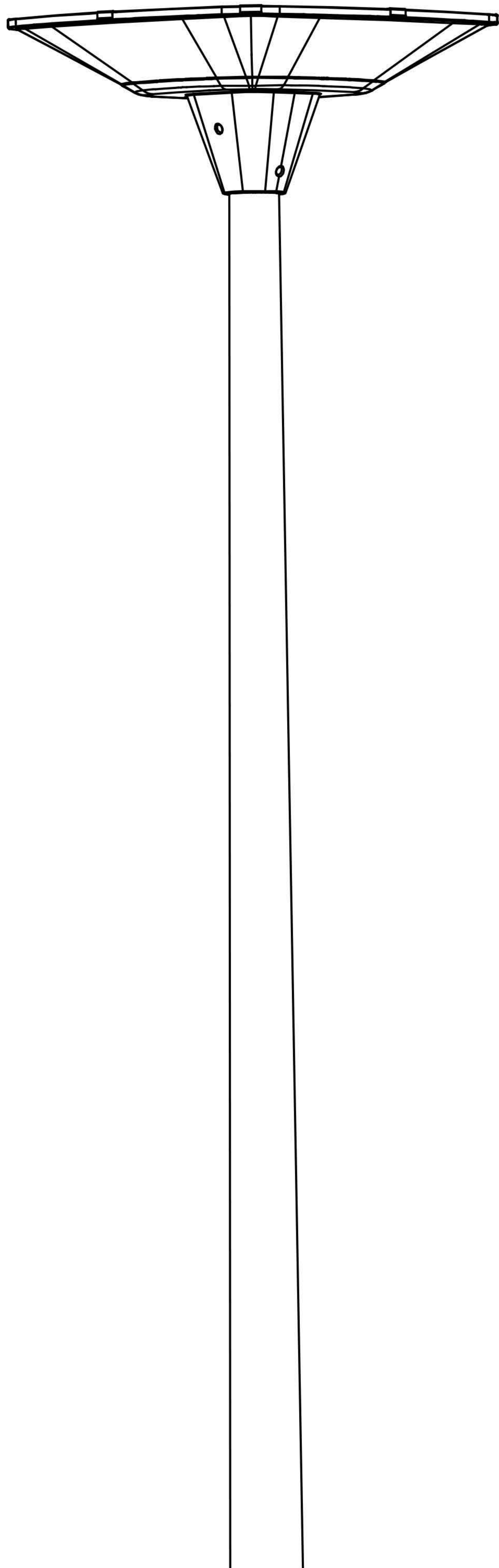
Recommended Top diameter of the Pole 60mm  
 Recommended Pole Height <6m  
 Net Weight (Kg) 12.5  
 Package Dimension (mm) 660\*660\*300



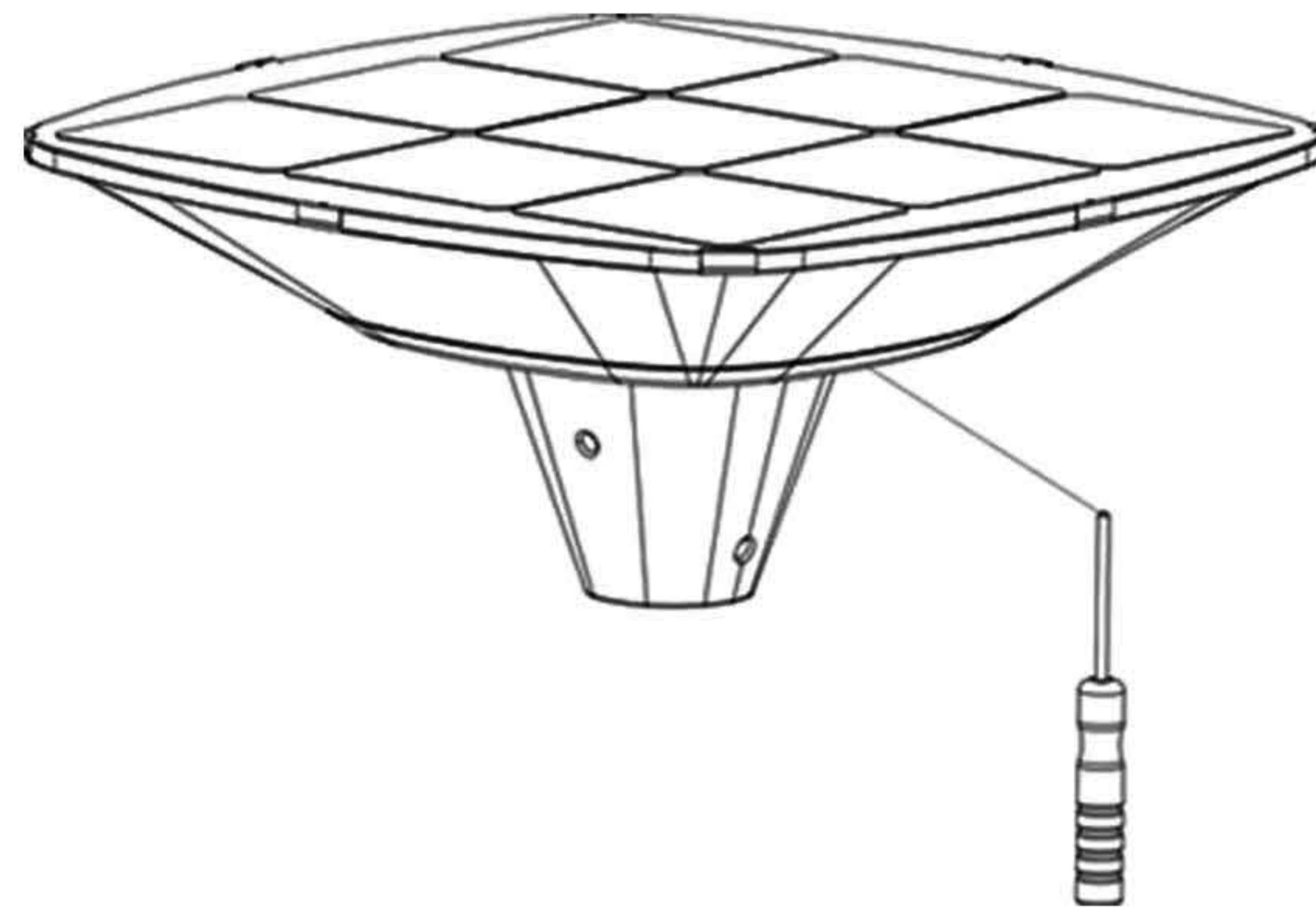
Road Simulated Diagram



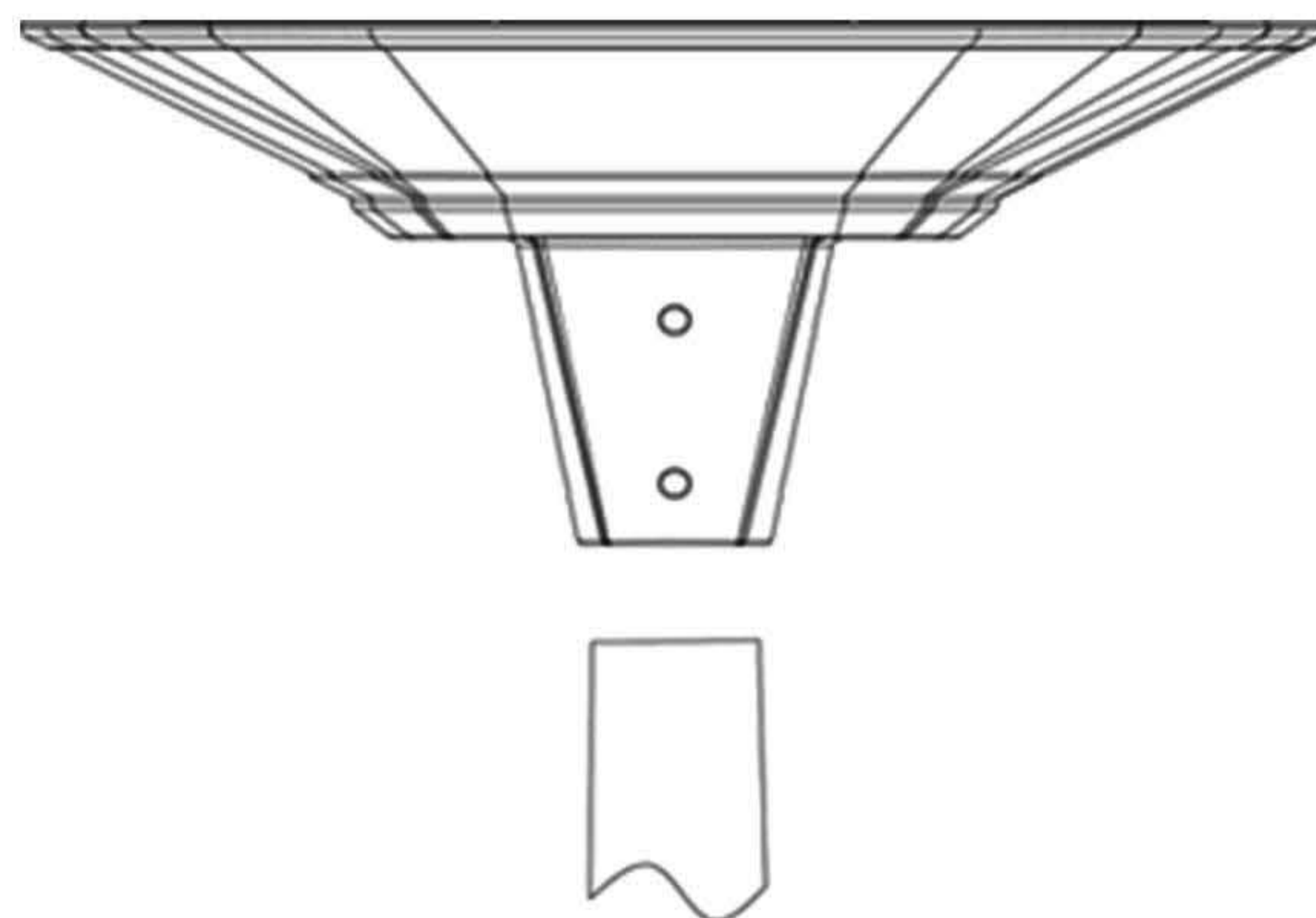
Light Distribution Curve



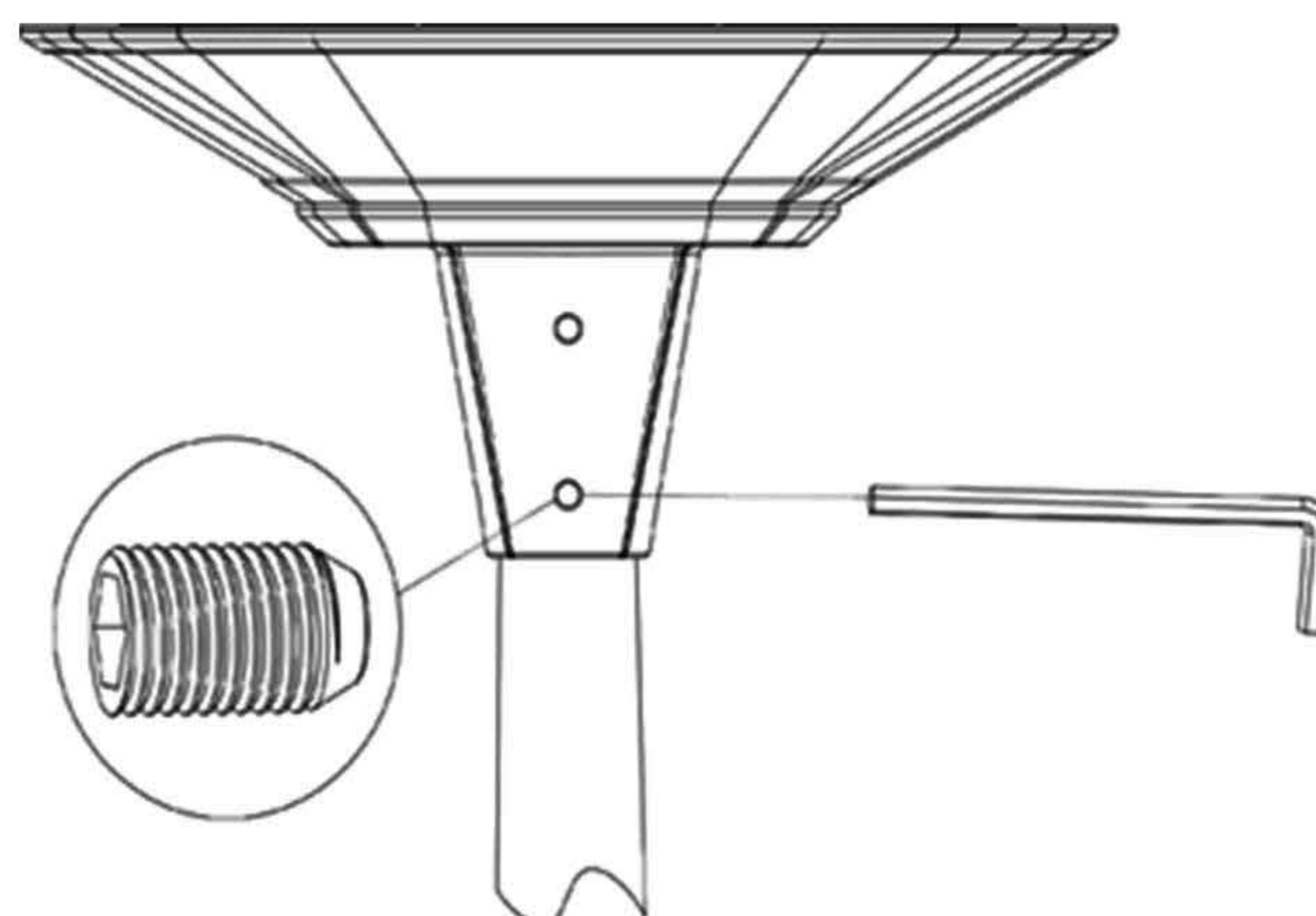
1. Turn on the switch, cover the solar panel with non-transparent materials and wait 15 seconds to see if the light is on. Make the solar panel face the sun, and wait 30 seconds to check if the light is off, finish the installation after testing ok.



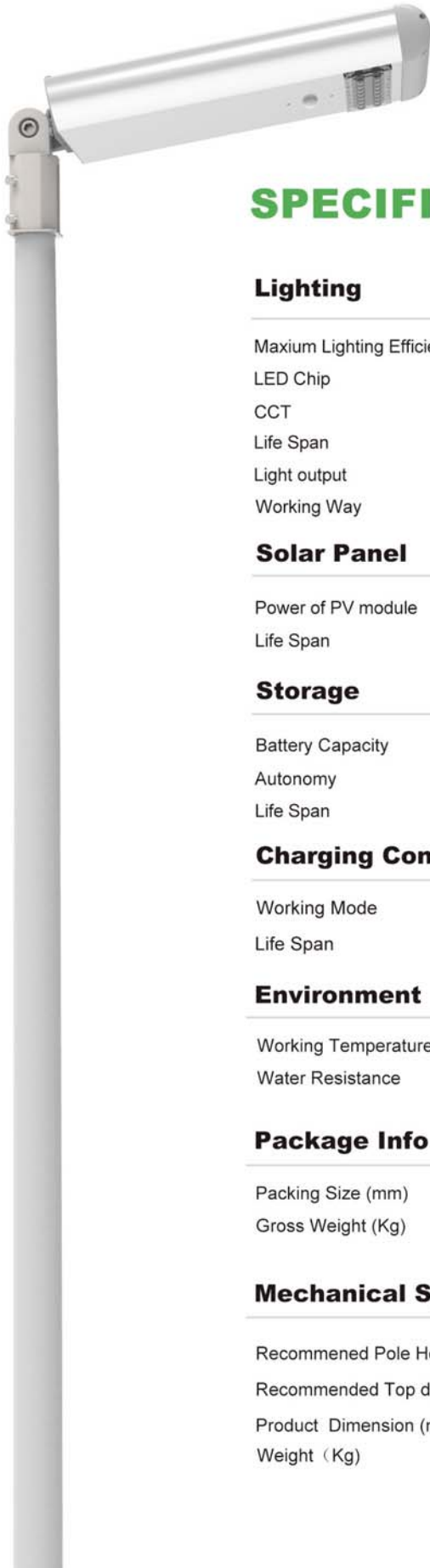
2. Mount the light on the light pole and tighten the screws.



3. Unlock the buckle, place solar panel as per below drawing, buckle up.







## SPECIFICATION - HP2000

### Lighting

Maxium Lighting Efficiency	225LM/ W
LED Chip	Hight bright 5050 with PMMA lesns
CCT	2700-6000K ( can be customized)
Life Span	100,000 hours to LM80 specifications
Light output	2000-3000LM
Working Way	Motion Sensor/IOT/Time Schedule

### Solar Panel

Power of PV module	30W
Life Span	25 years

### Storage

Battery Capacity	160WH
Autonomy	>10 days
Life Span	4000 cycles ( 10 years)

### Charging Controller

Working Mode	MPPT
Life Span	12years

### Environment

Working Temperature	-15°C to +70°C
Water Resistance	IP65

### Package Info

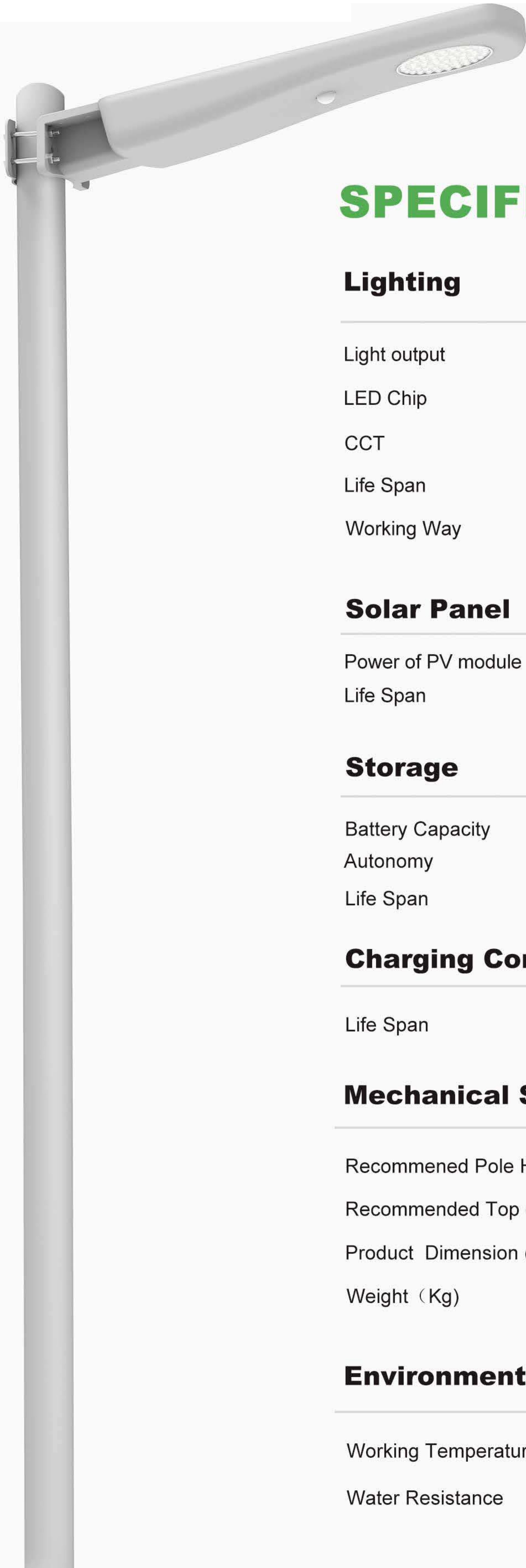
Packing Size (mm)	830*410*150
Gross Weight (Kg)	4Kg

### Mechanical Specifications

Recommended Pole Height	4-6m
Recommended Top diameter of the Pole	60-76mm
Product Dimension (mm)	775*350*85
Weight ( Kg)	8.4







## SPECIFICATION

### Lighting

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Light output	2200LM
LED Chip	Hight bright 3030 with PMMA lesns
CCT	2700-6000K ( can be customized)
Life Span	100,000 hours to LM80 specifications
Working Way	Motion Sensor/Time Schedule

### Solar Panel

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Power of PV module	18W
Life Span	25 years

### Storage

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Battery Capacity	80WH
Autonomy	2-3days
Life Span	4000 cycles ( 10 years)

### Charging Controller

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Life Span	12 years
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### Mechanical Specifications

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Recommened Pole Height	4-6m
Recommended Top diameter of the Pole	40-60mm
Product Dimension (mm)	560*182*62
Weight ( Kg)	2.2

### Environment

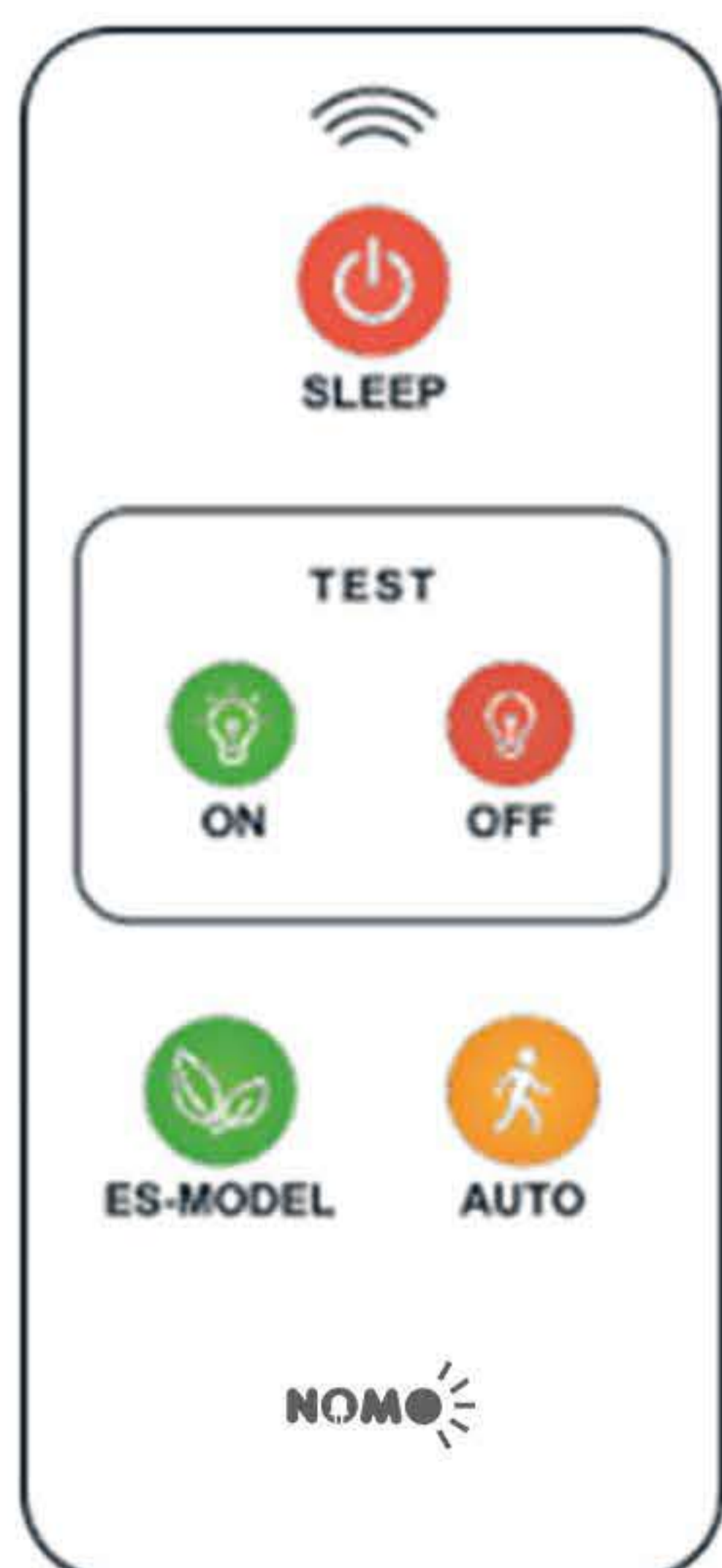
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Working Temperature	-15°C to +70°C
Water Resistance	IP65

# SWISS LED



## REMOTE



### Sleep

After press SLEEP button the Light will turn OFF

### ON

Test turn on the light

### OFF

After press OFF button, the light will turn on automatically after 2 minutes.

### ES-MODEL

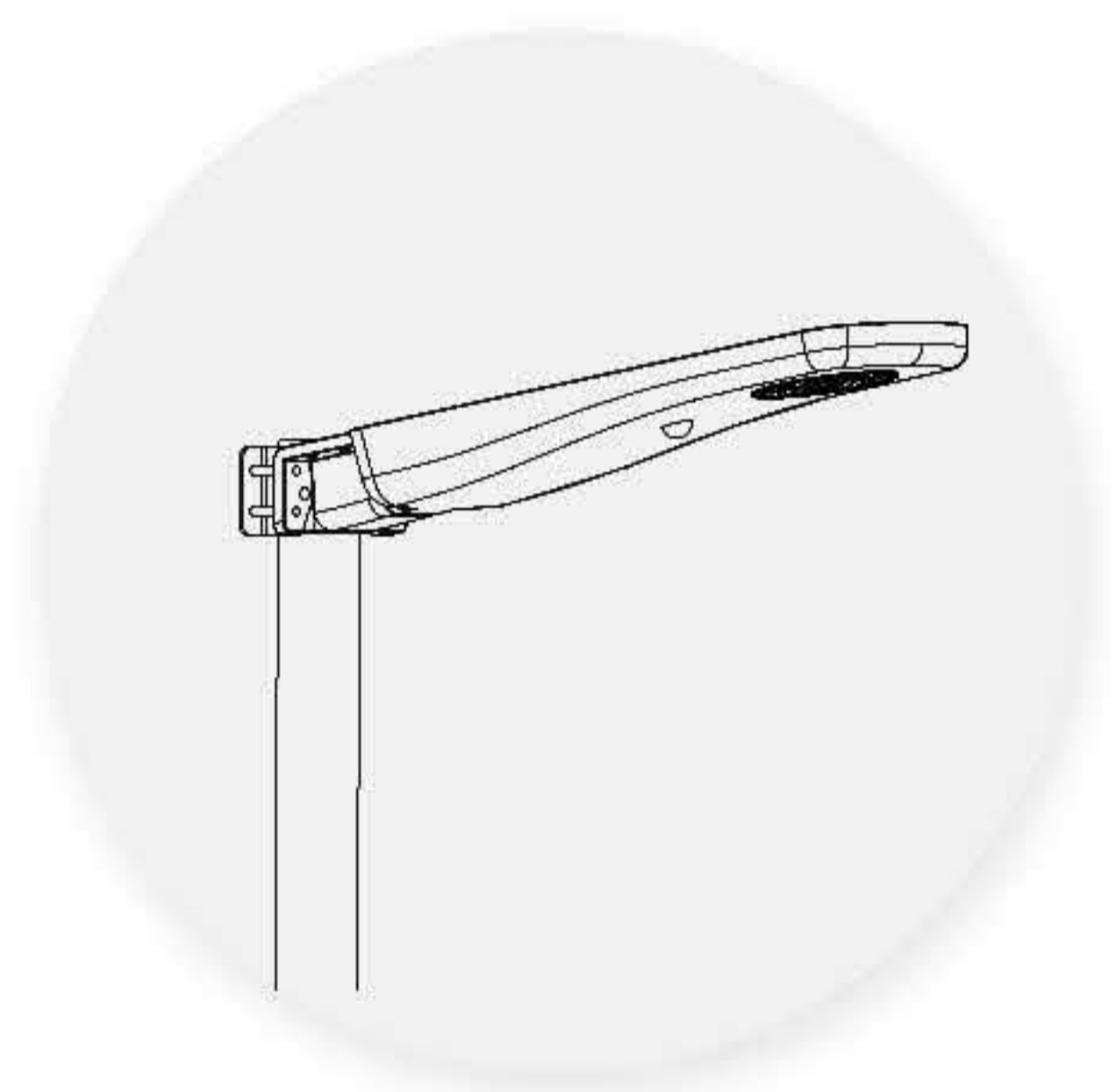
50% brightness constant light

### AUTO

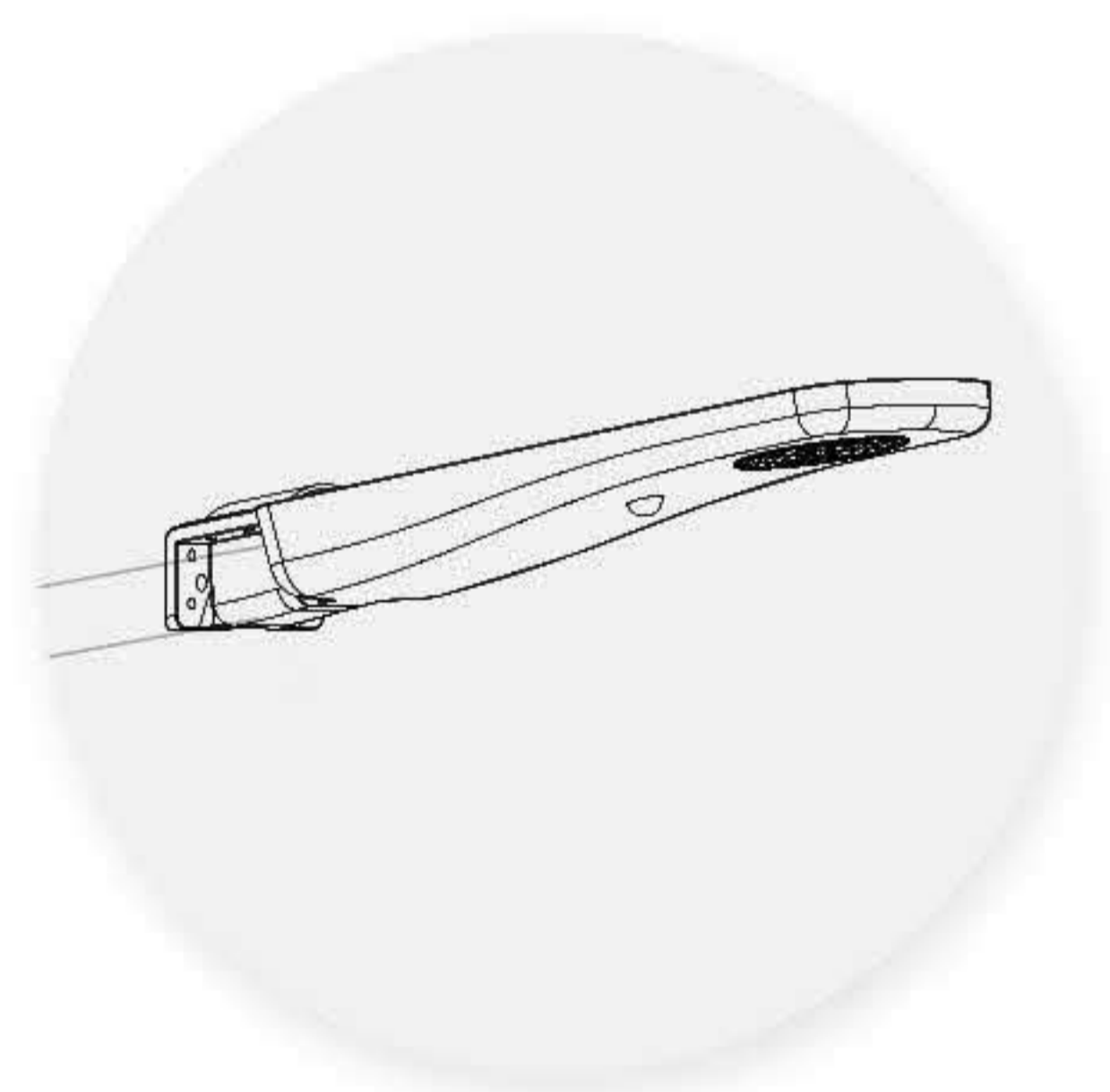
After movement detection, the brightness increases to 100% then it goes back to 30% brightness in 30 secs

ITEM	PARTS	QTY	PICTURE
1	Light Body	2SETS	
2	Hoop Anchor	2PCS	
3	M6*80MM Screw with nut, spring, washer, flat washer	8SETS	
4	Remote Control	1SET	
5	Instruction Manual	1SET	

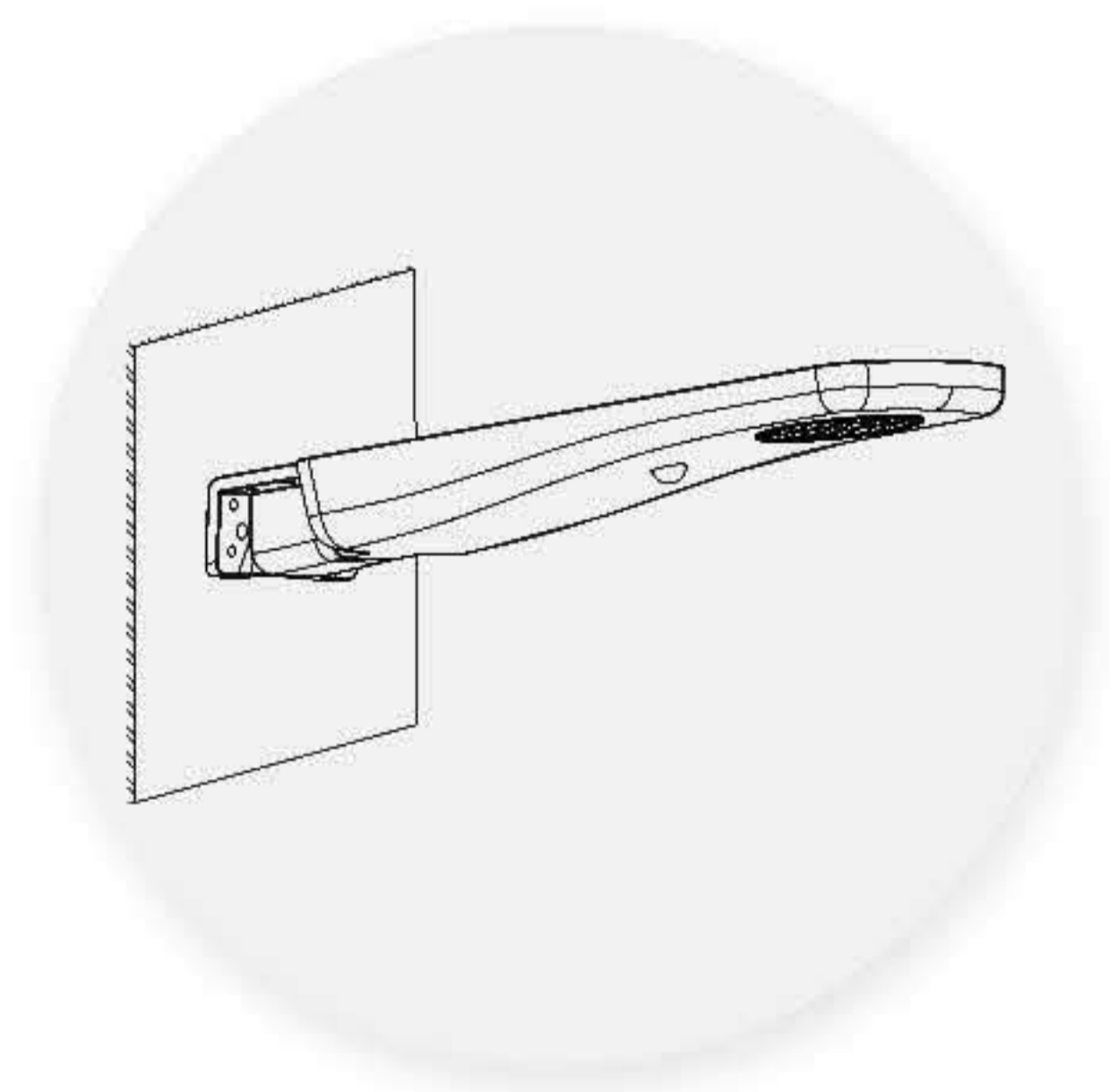
Triple ways of installation



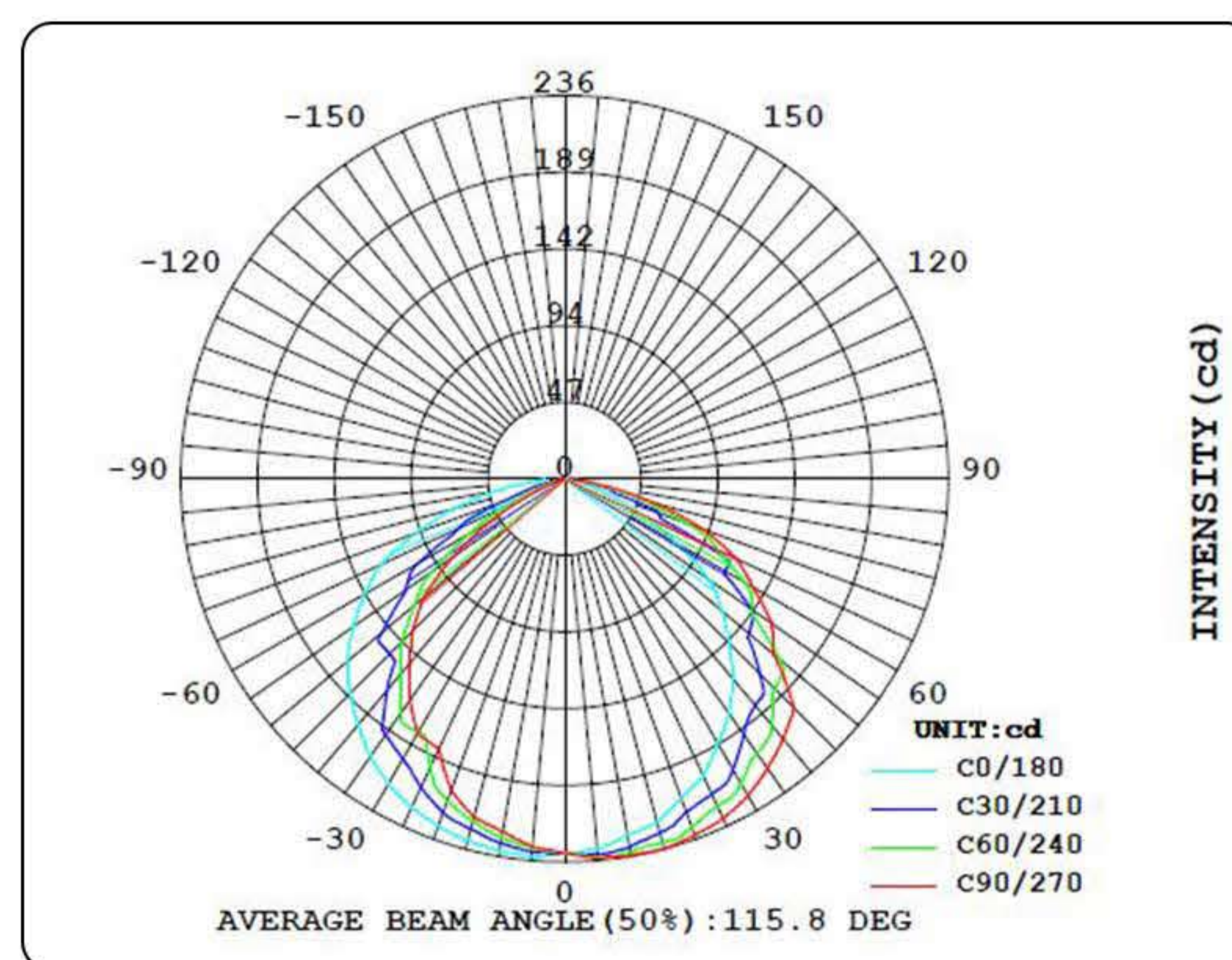
Vertical



Horizontal



Wall mounted



LIGHT DISTRIBUTION CURVE



PIR MODE

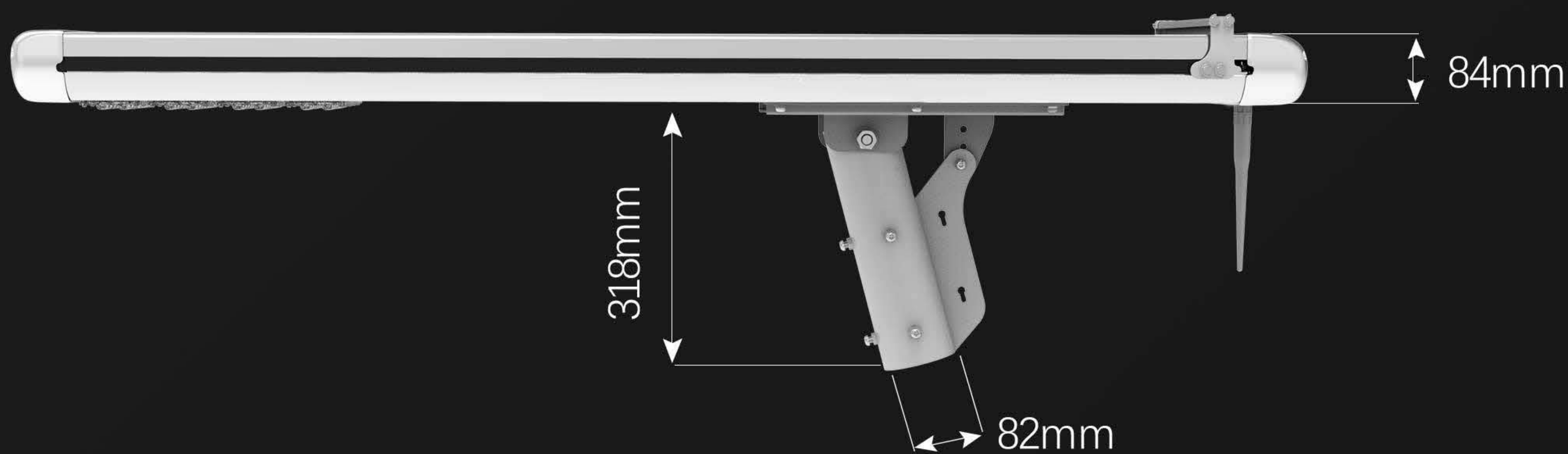
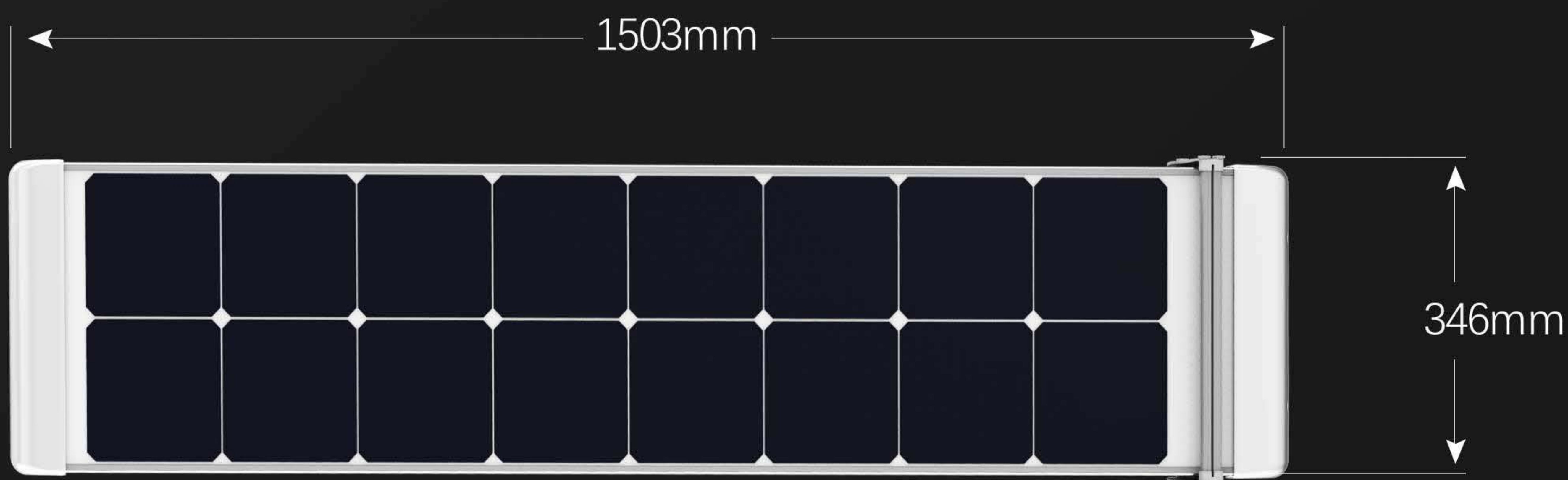
The detective distance is about 7-12 meters.

**SWISS  
LED**



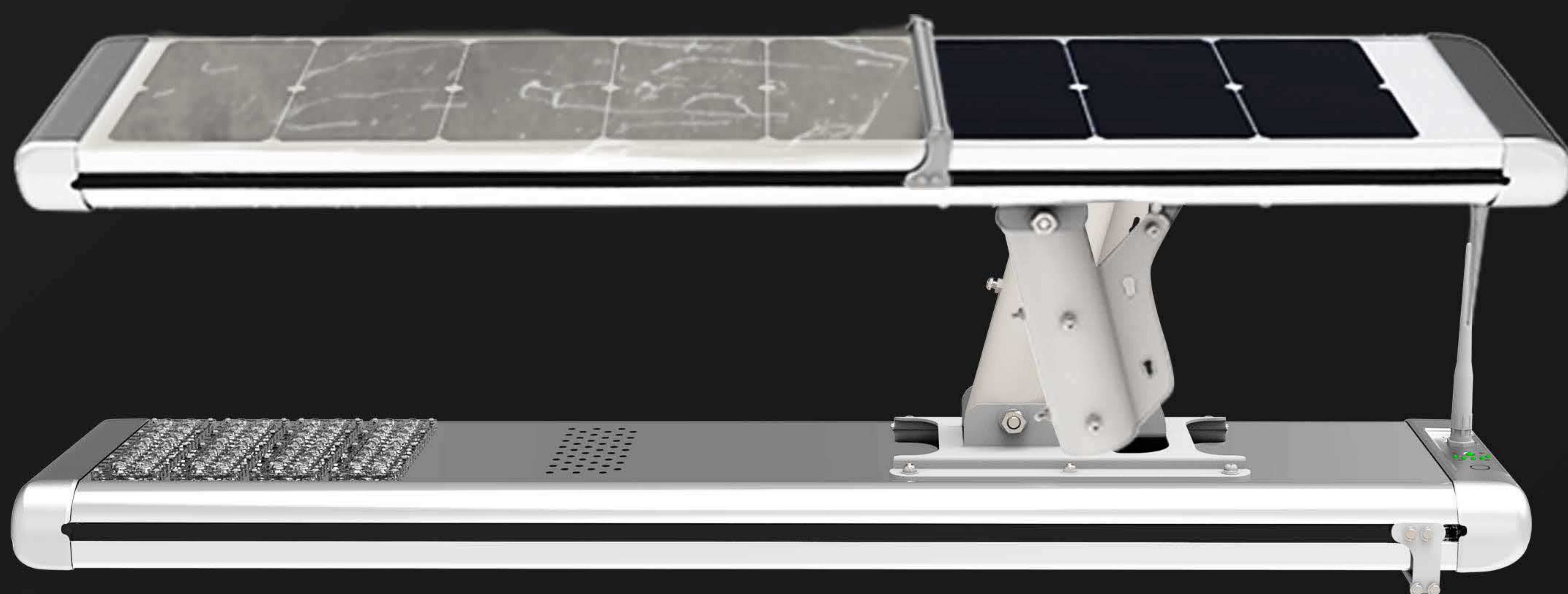
**IROBOT**



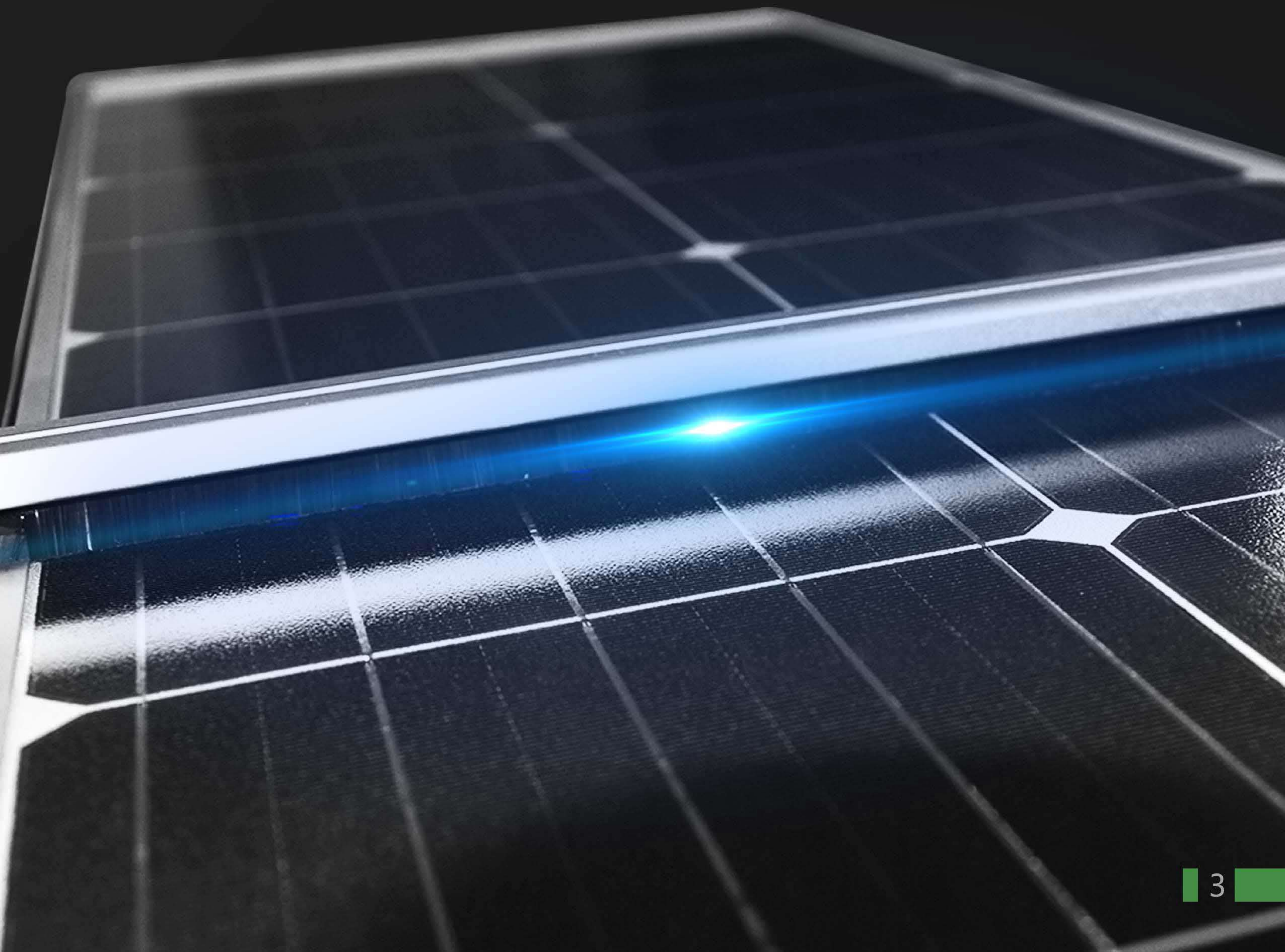


PATENT DESIGN

INTELLIGENT REMOTE OPERATIONS



# Automatically Self-Cleaning







**ODM**

- Self-Cleaning
- IoT
- HD CCTV(Optional)



Self-Cleaning



IoT



HD CCTV

# ALSO WE HAVE WHAT OTHERS DON'T



Patented design



Automatically self-cleaning



High efficiency solar panel  
(24% efficiency)



Aluminium alloy design



Remote control



Longer lifespan >10 years

<b>Mode NO.</b>	3000SC	5000SC
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**Lighting**

Light Output	MAX 6000LM (4200lm typ)	MAX 12000LM (8382lm typ)
LED Chip	High bright 5050	
CCT	2700-6000K (can be customized)	
Life Span	100,000 hours to LM80 specifications	
Working Way	Motion Sensor / IOT / Time Schedule	

**Solar Panel**

Power of PV module	50W	100W
Life Span	80% power after 25 years	

**Storage**

Battery Capacity	275WH	550 / 825WH
Lighting time in rainy day	>10 days	
Life Span	4000 Cycles (>10 years)	

**Charging Controller**

Life Span	>12 years	
Working Mode	MPPT	
Control Mode	Intelligent, activated by sunlight	

**Environment**

Working Temperature	-15°C to +70°C	
Water Resistance	IP65	

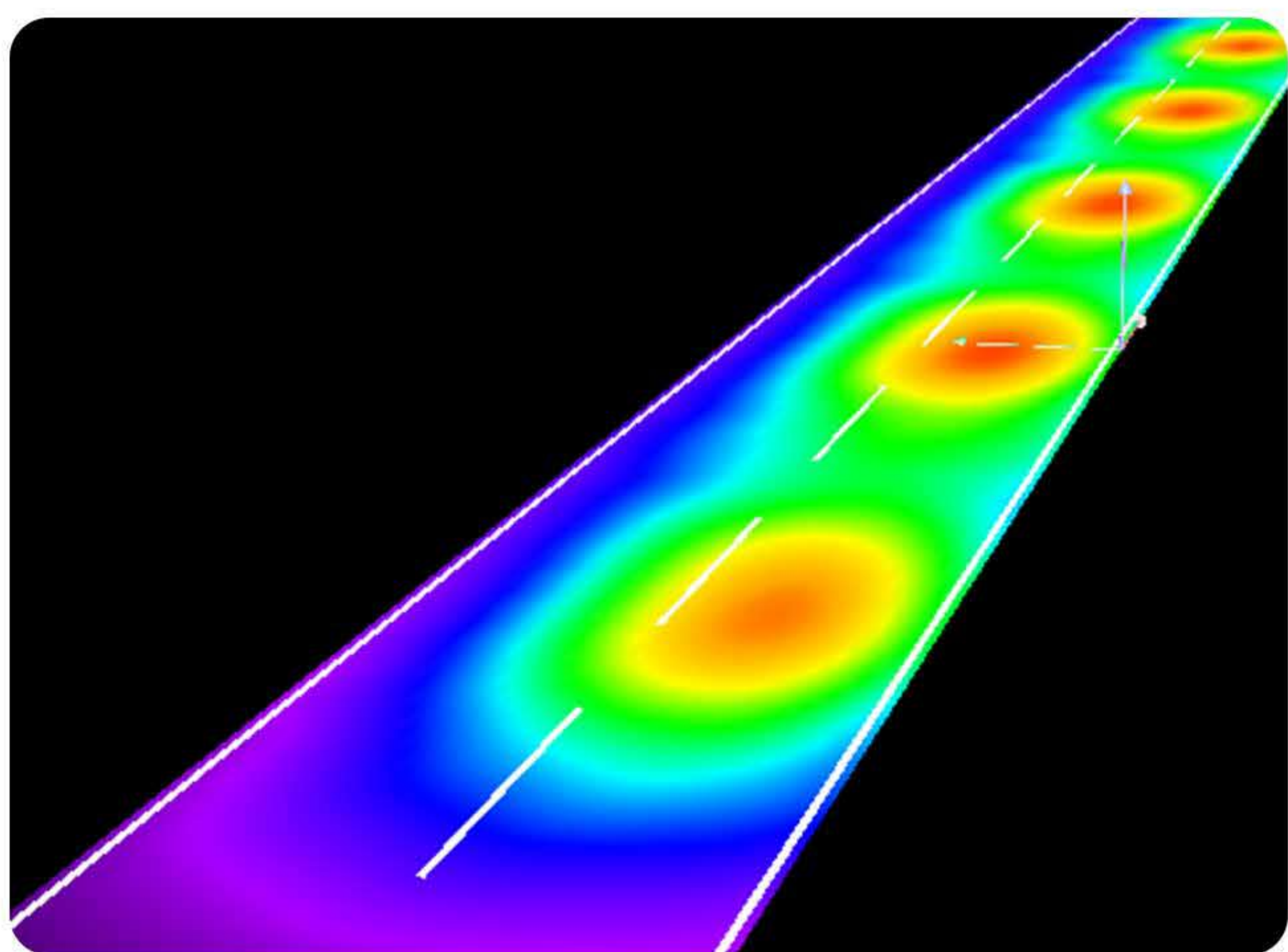
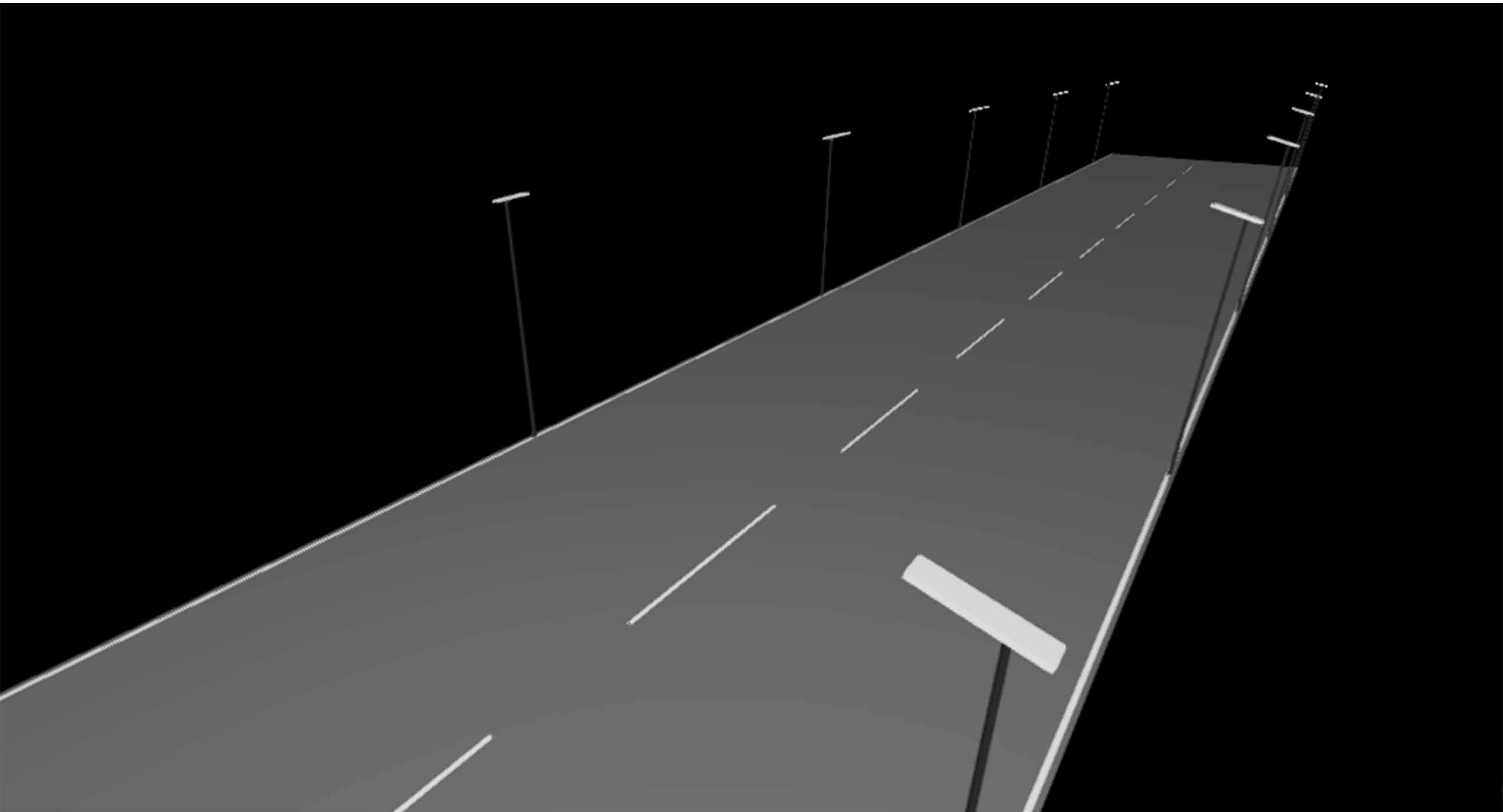
**Solar Panel Autoclean**

	Yes	
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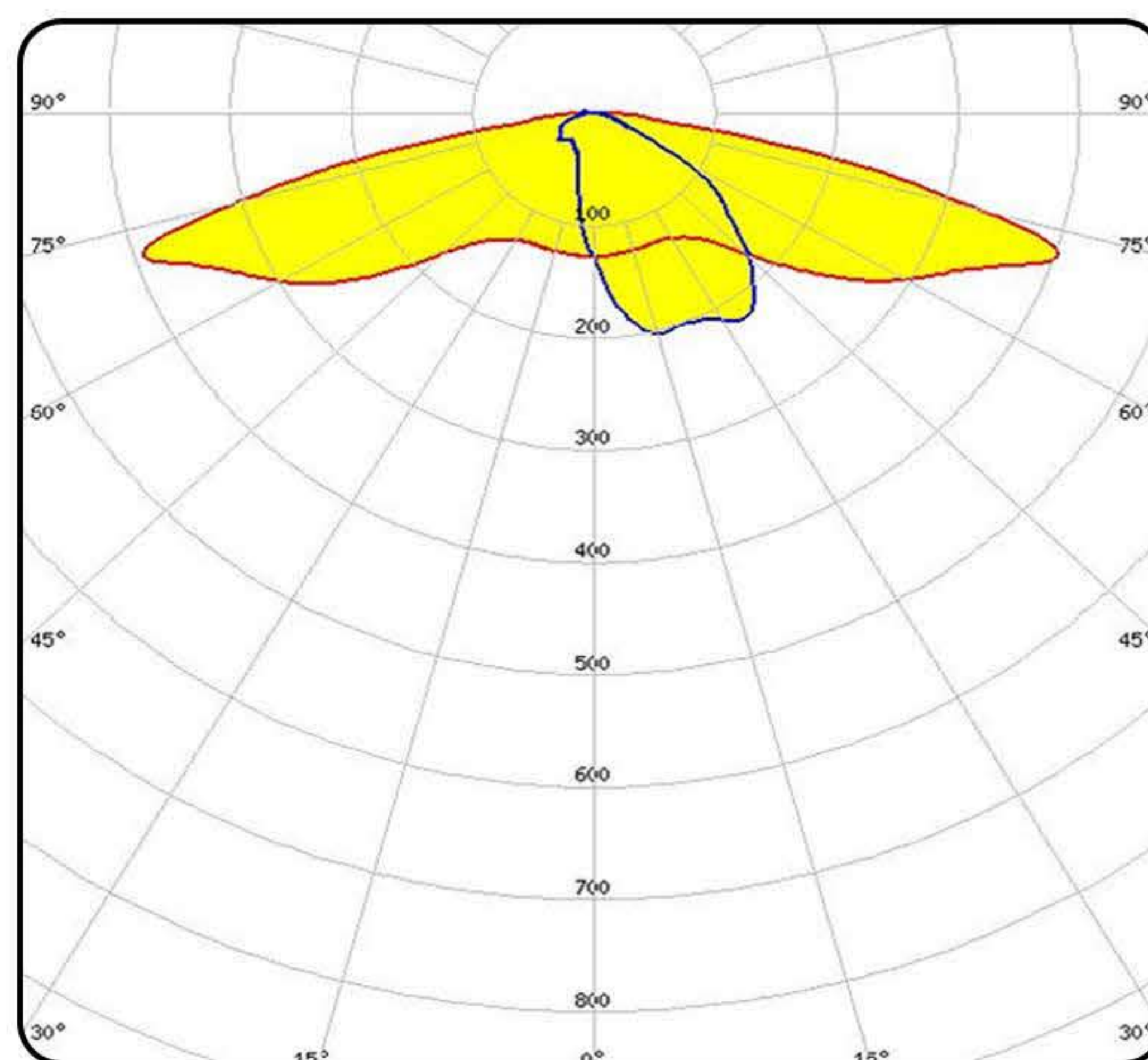
**Mechanical Specifications**

Recommended Pole Height	6-8m	9-12m
Net Weight (Kg)	16.2	26.1
Package Dimension (mm)	990*410*145	1580*410*145

IROBOT-3000SC / 5000SC

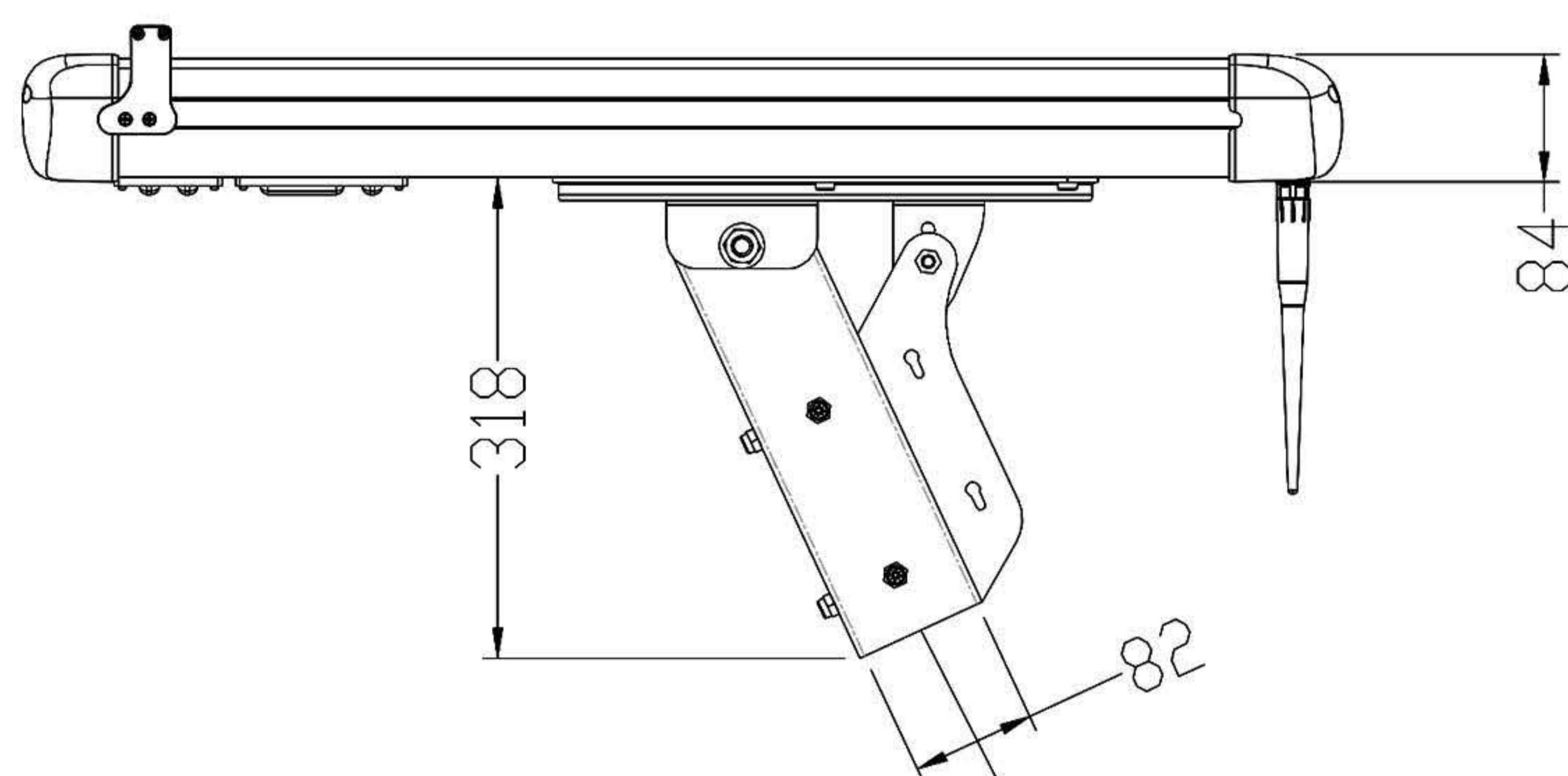
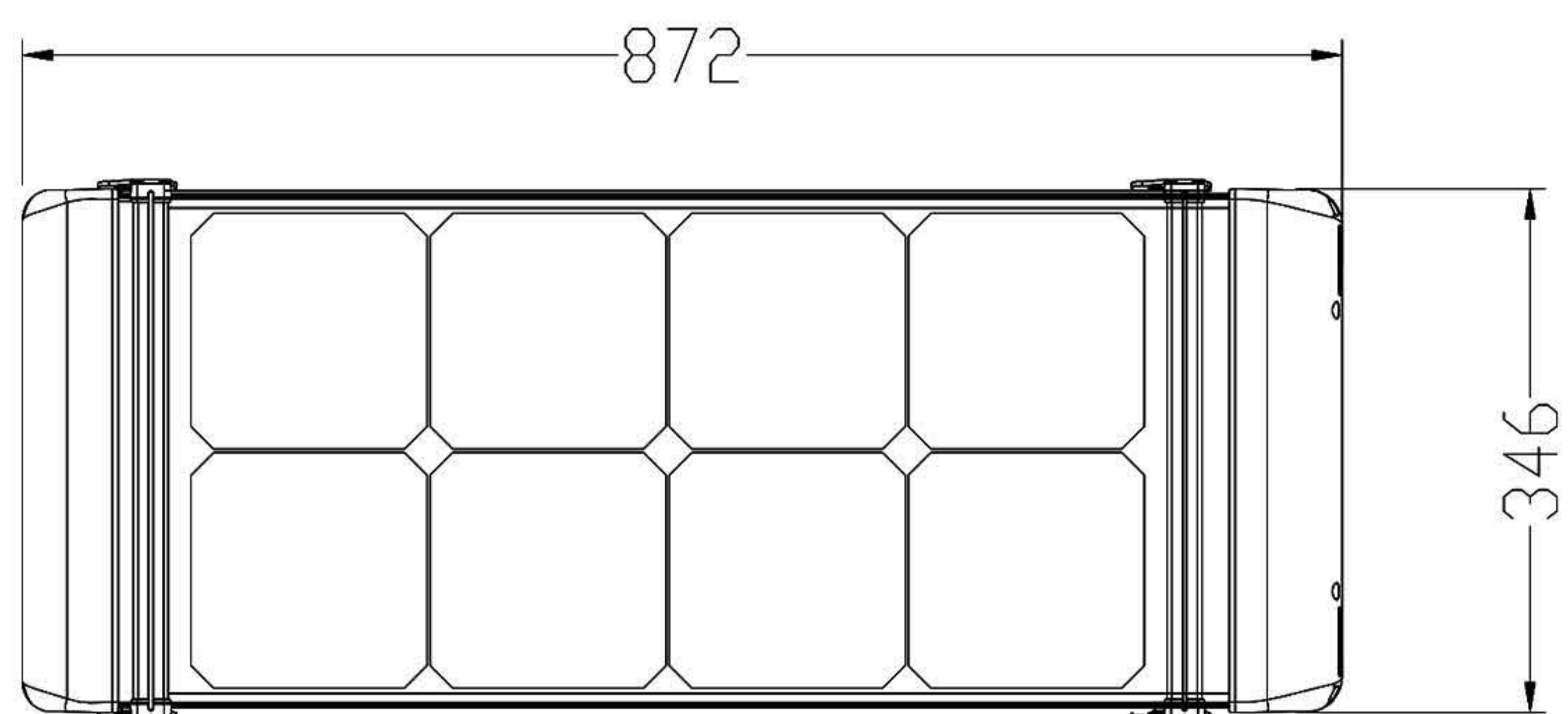


Road Simulated Diagram

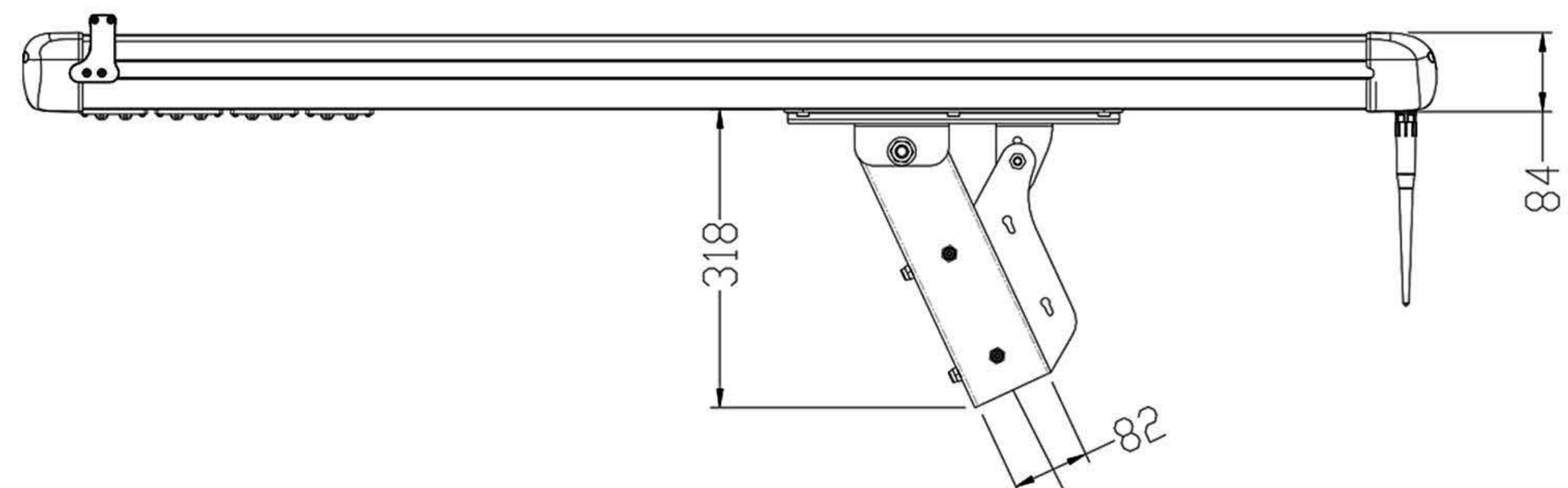
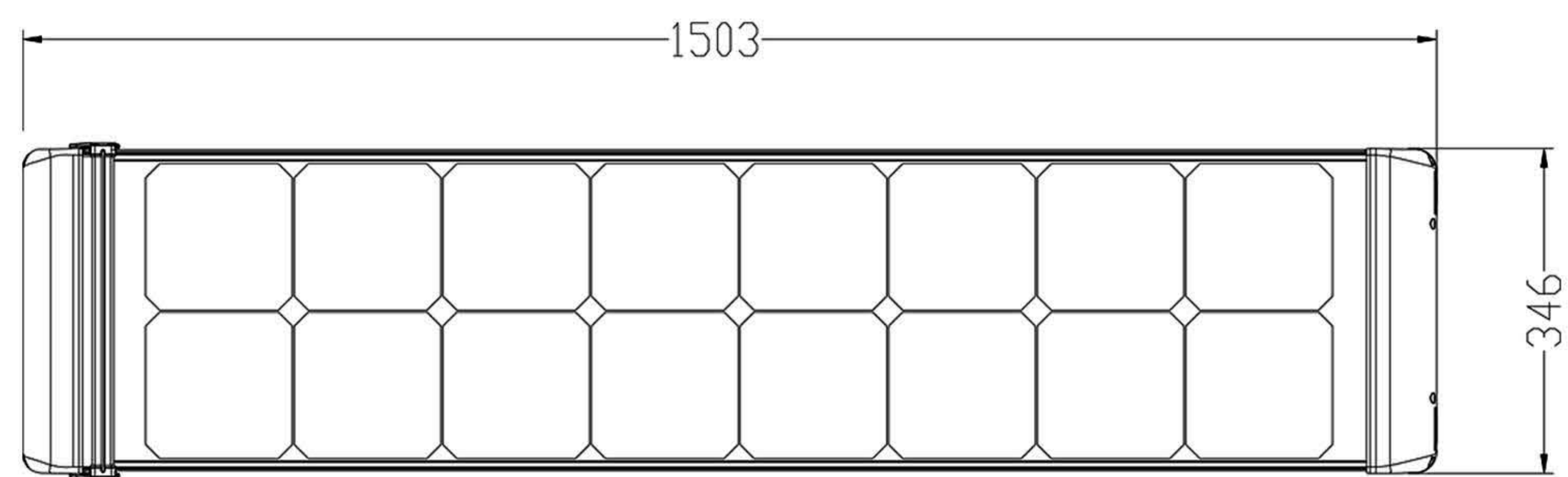


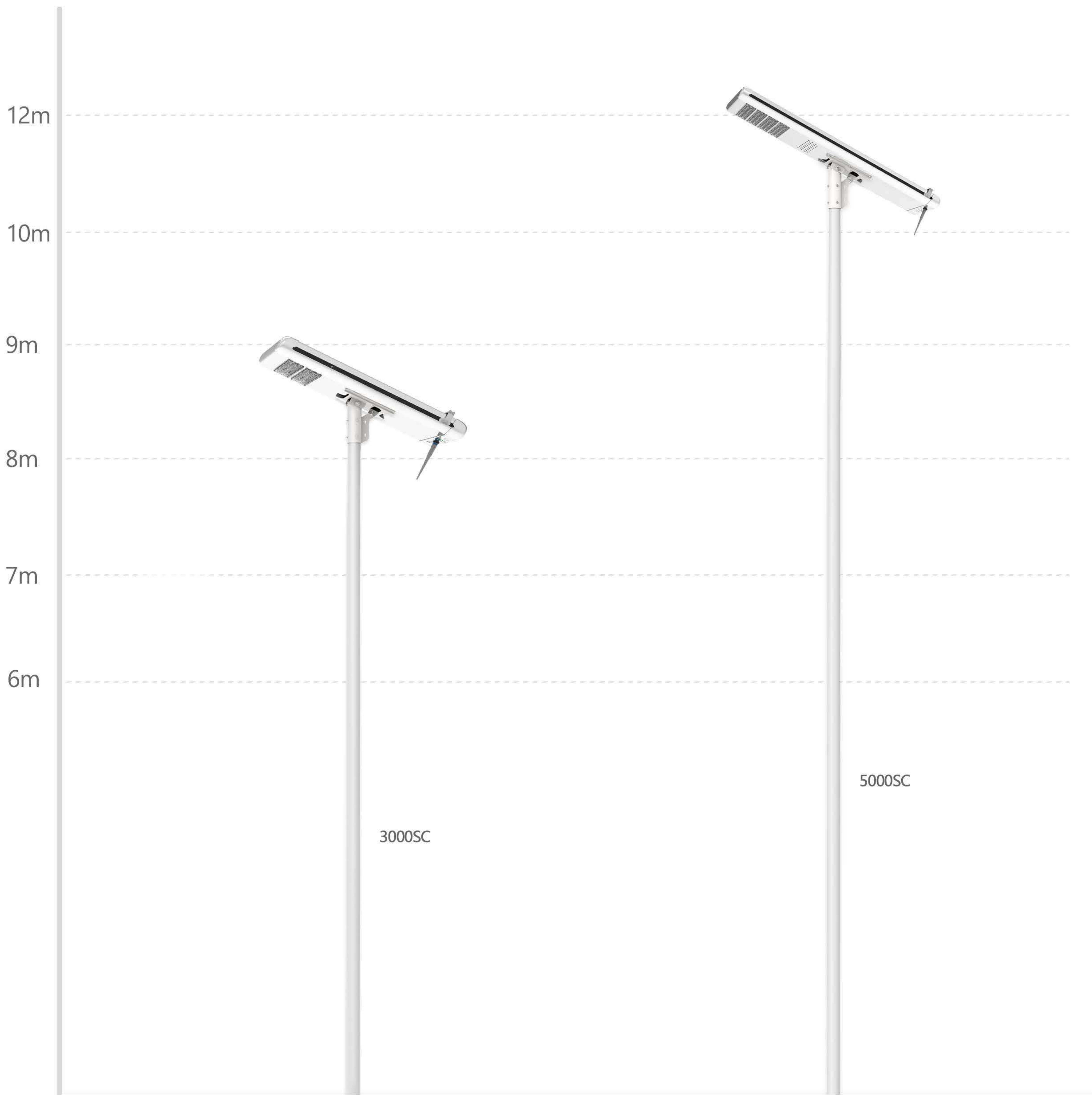
Light Distribution Curve

3000SC

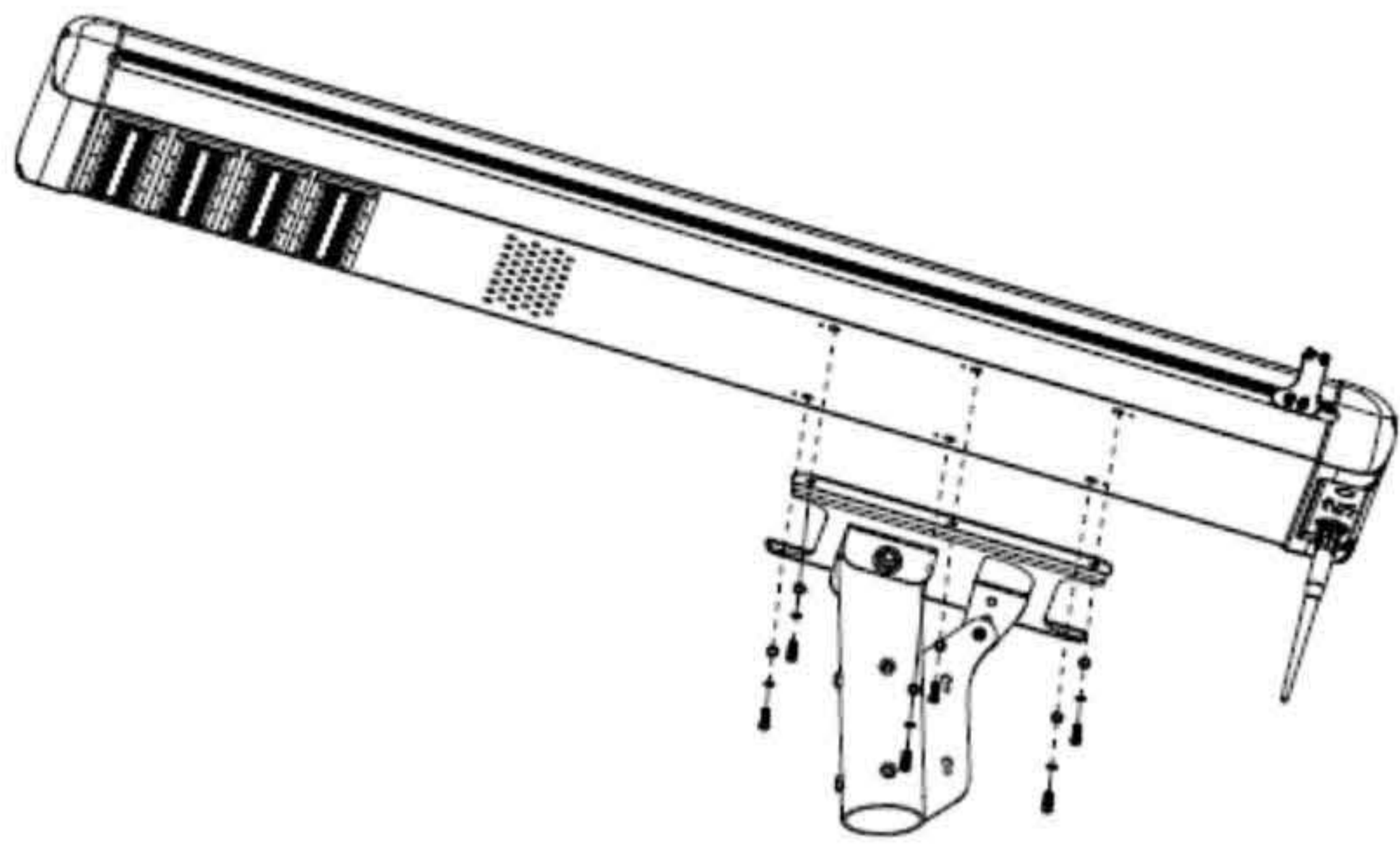


5000SC

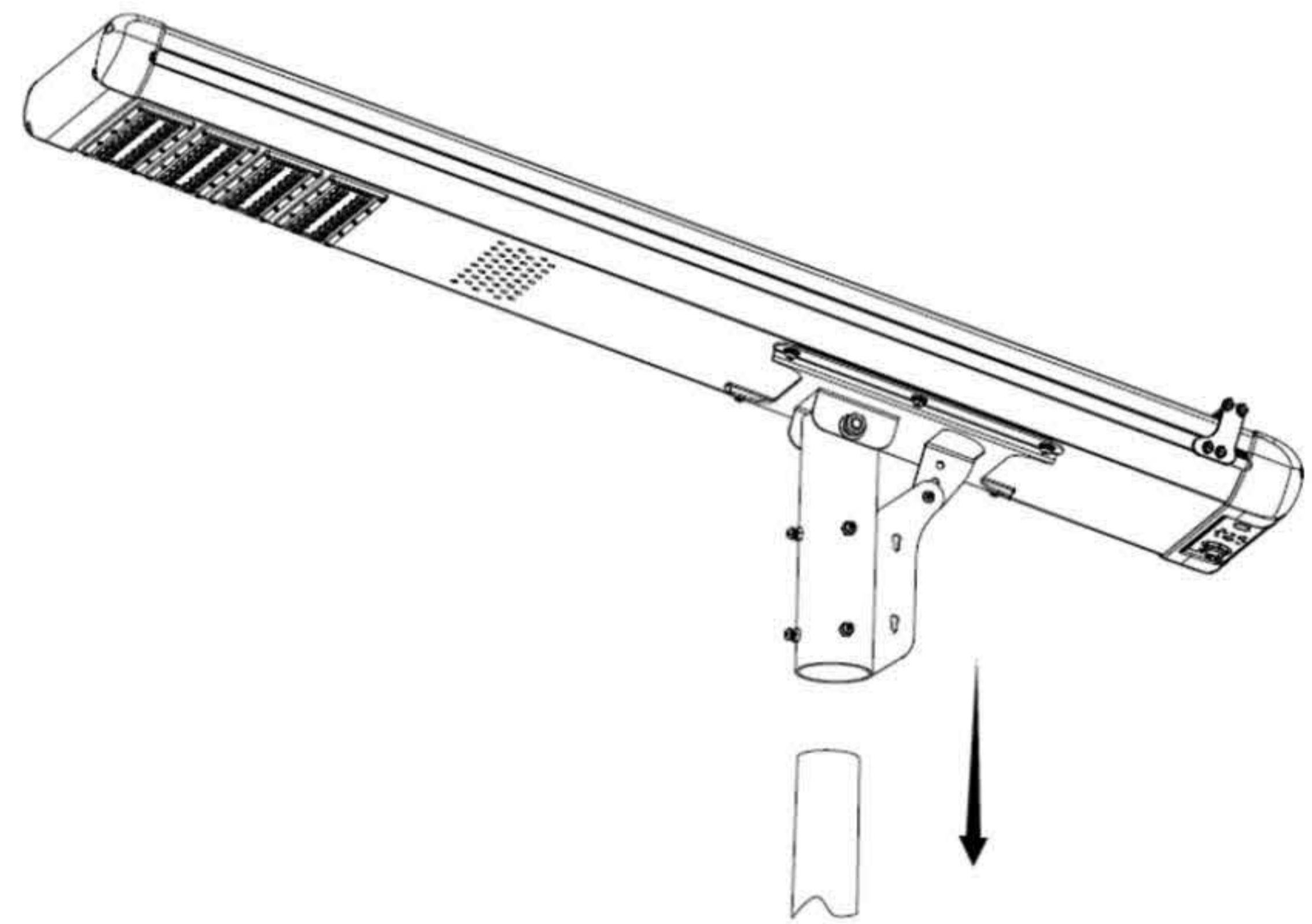




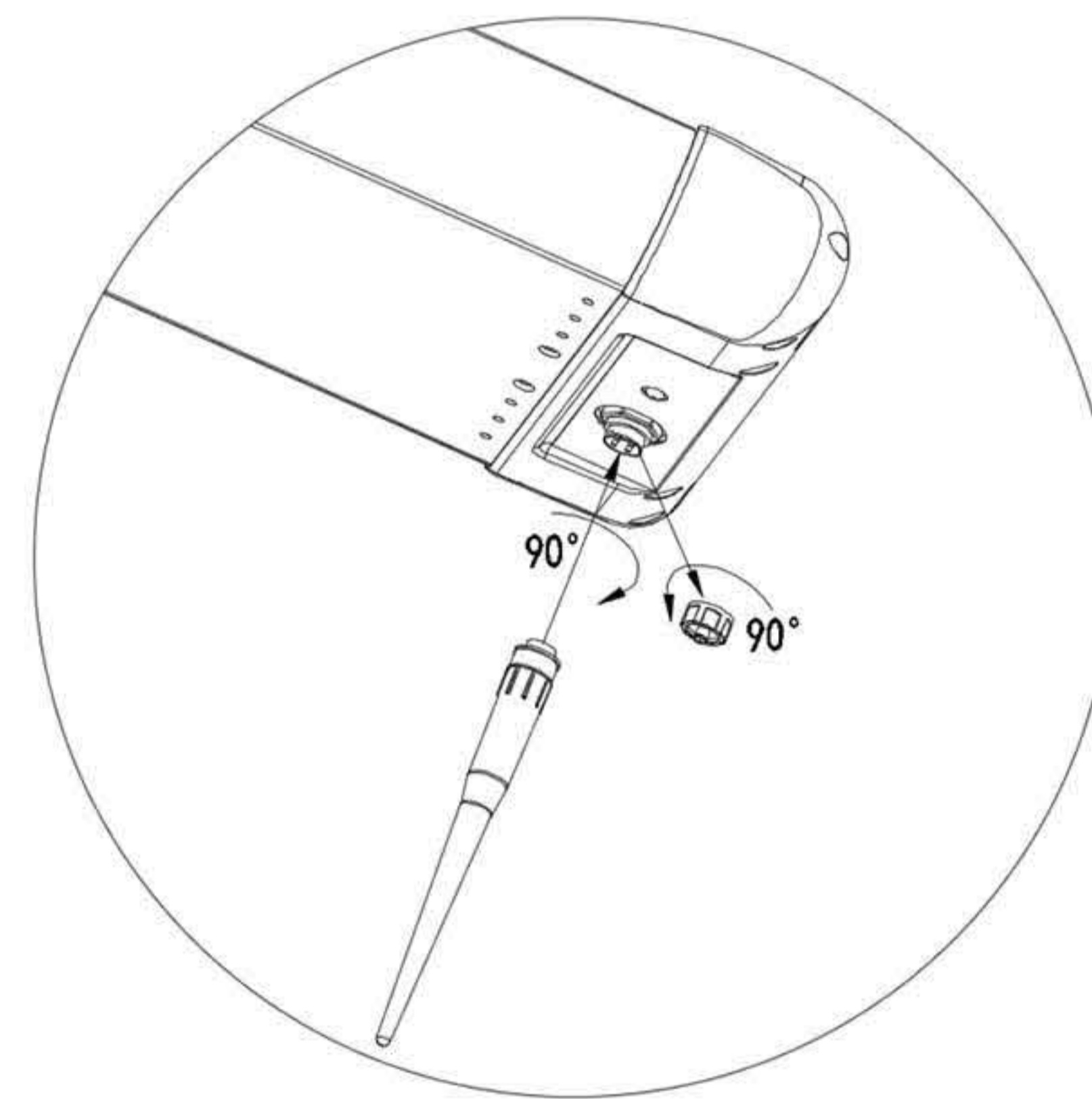
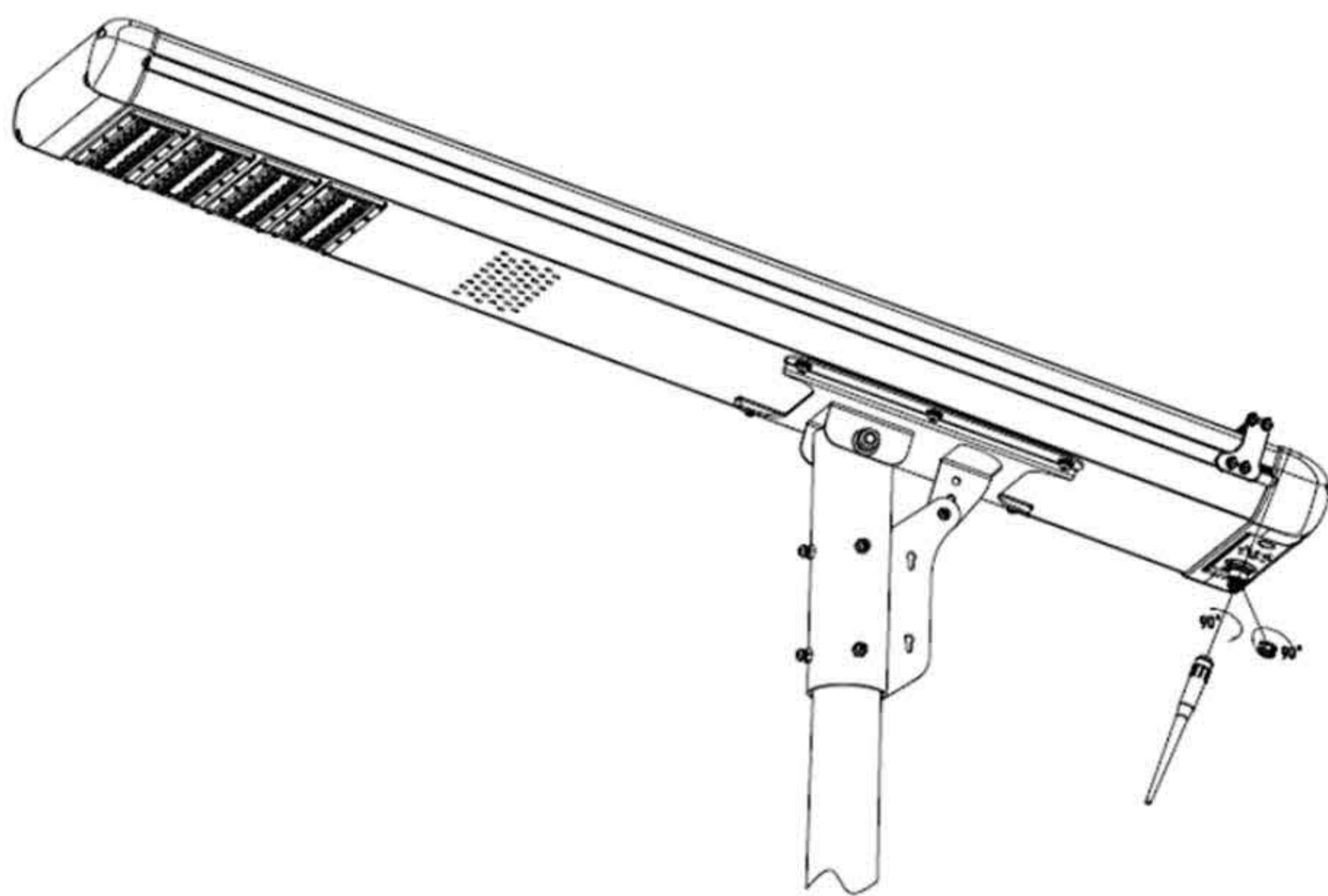
**1.** Put the bracket on the position with accordingly holes, and fix it with 6 pcs of M8\*16Screws, Flat pad Spring washer and 1piece of M8\*16,Flat pad ,Spring washer,Screw nut 1piece of M14\*120,Flat pad ,Spring washer ,Screw nut (refer to the following).



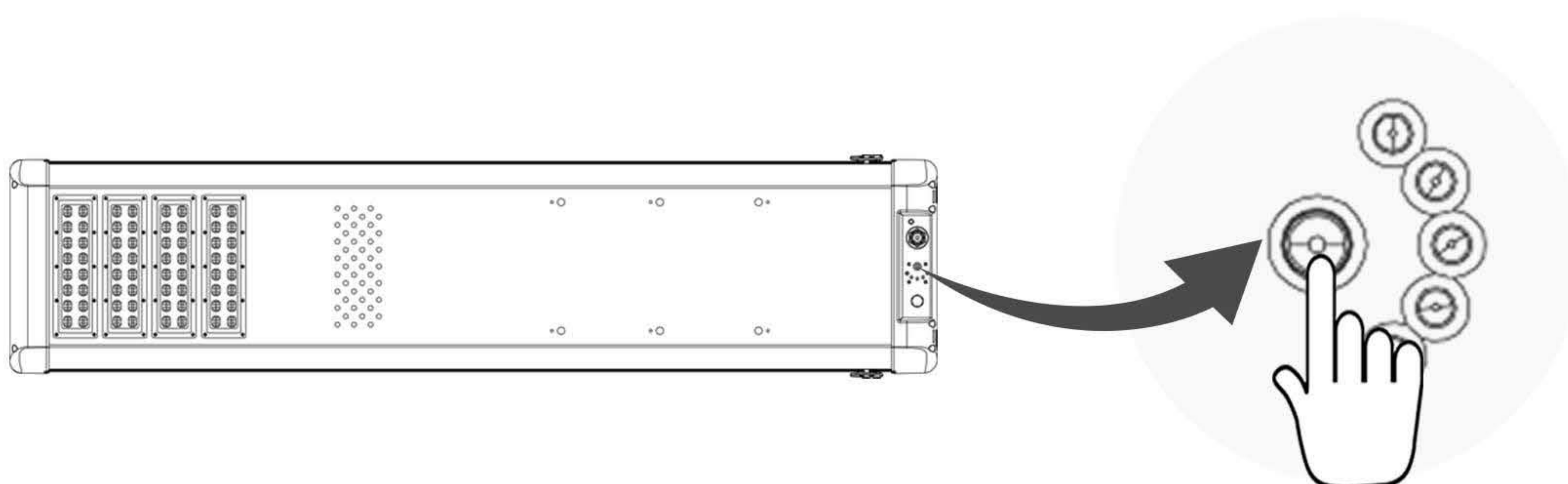
**2.** Set the street lights with bracket on the top of the pole, and Fix up with 6 pcs of M8\*20 Screw.



**3.** The installation of antenna (for product with smart controlling system) :remove the waterproof lid from the light and install the antenna.

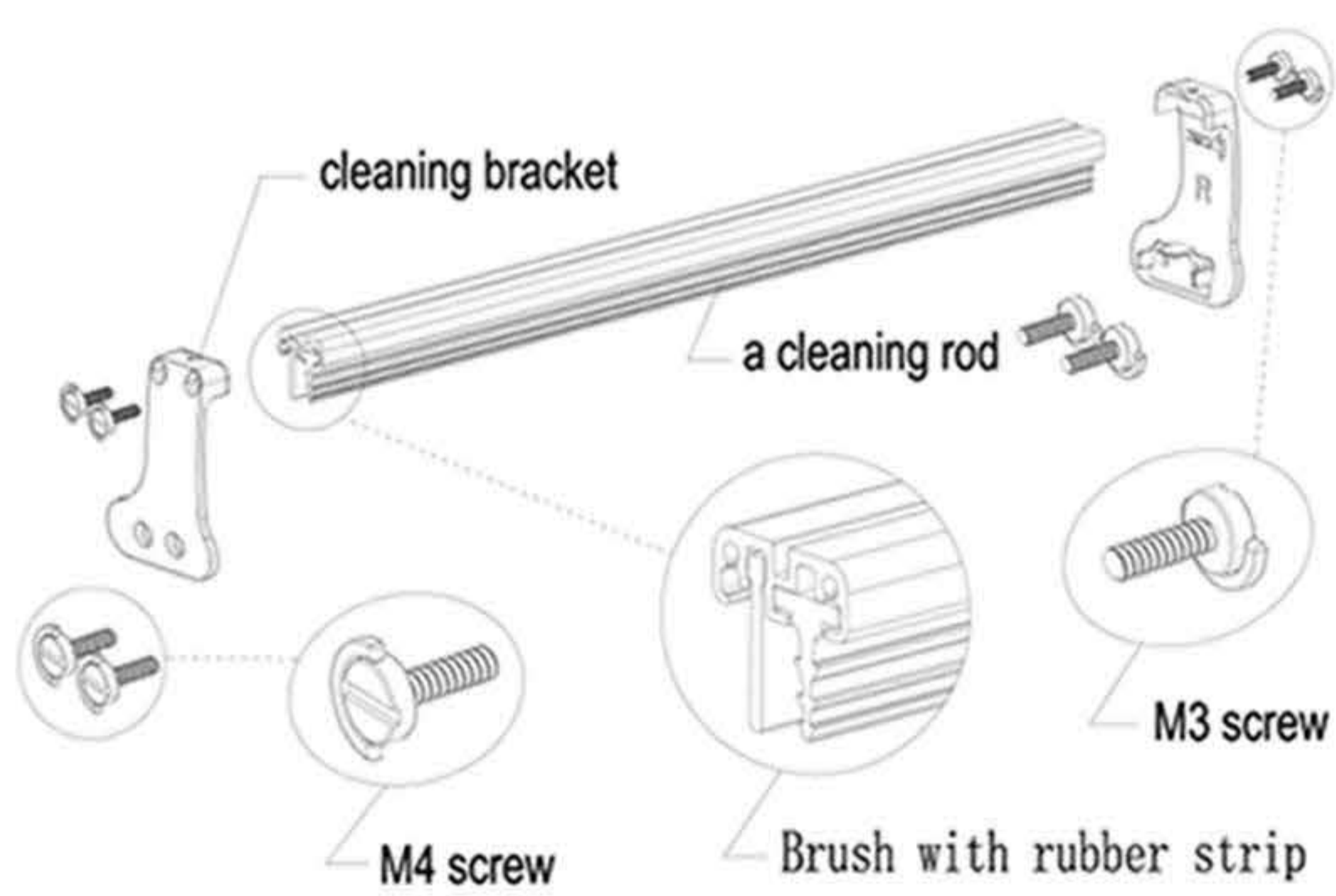


**4.** Cover the solar panel with non-transparent materials,and wait 15 seconds to see if the light is on, Make the solar panel face the sun, and wait 30 seconds to check if the light is off . finish the installation after testing ok.

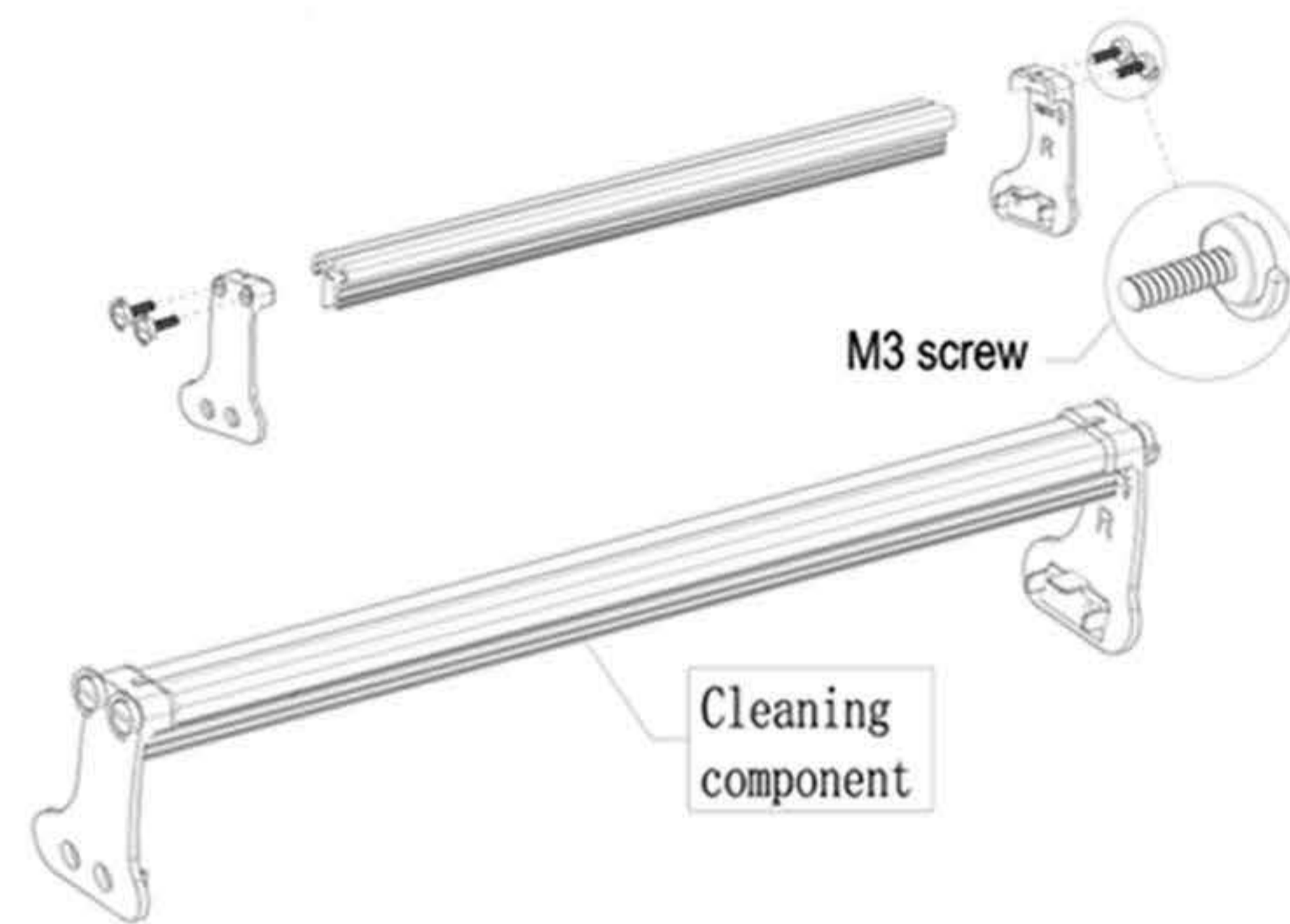


**5.**The installation of self cleaning kit : (also attached on the solar panel of self-cleaning light).

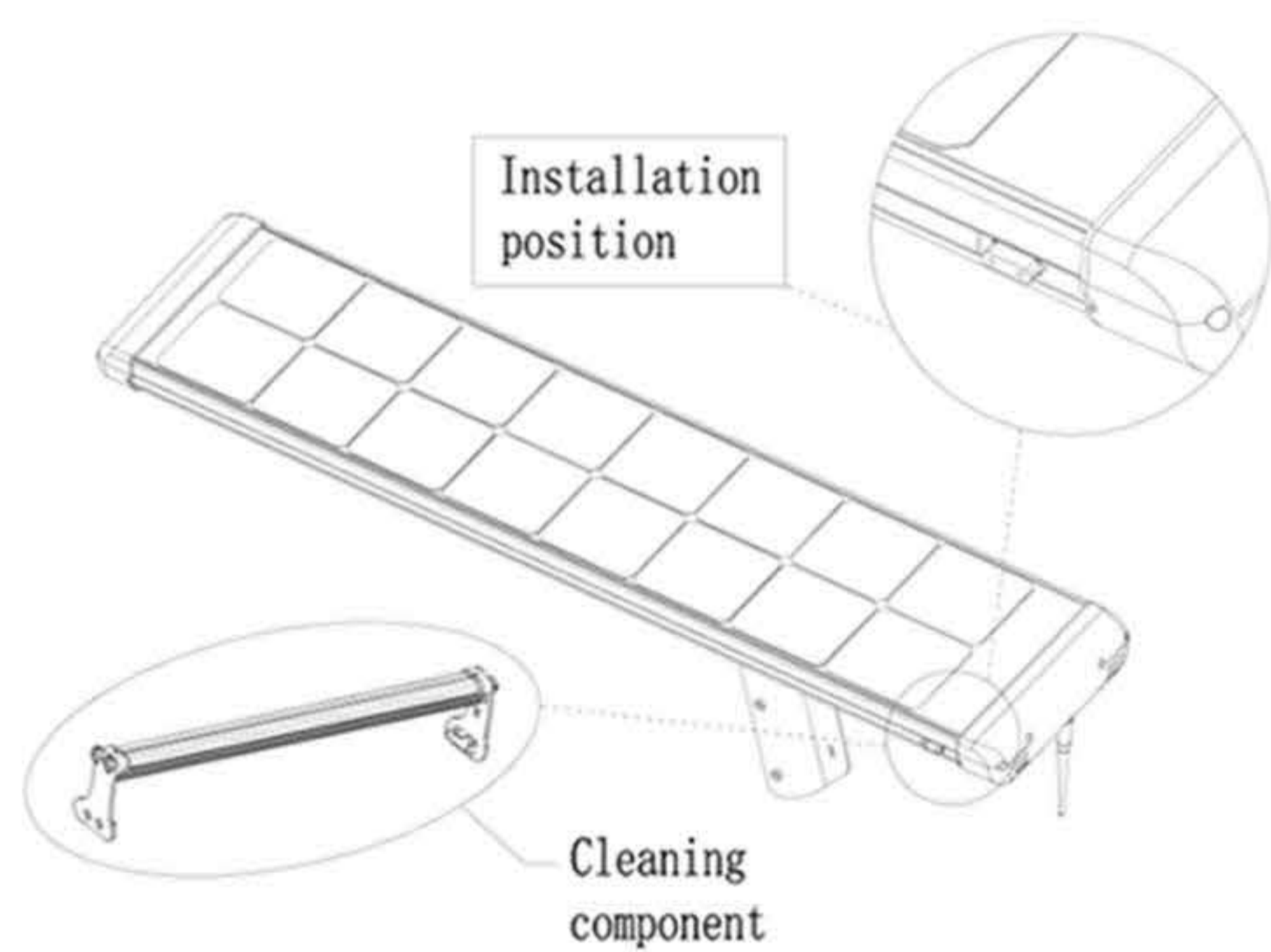
**Step 1** Prepare the tool and cleaning parts. (including: A cleaning rod\*1PCS brush\*1PCS,rubber strip 1PCS cleaning bracket 2PCS, M3 screw 4PCS M4 screw 4PCS ).



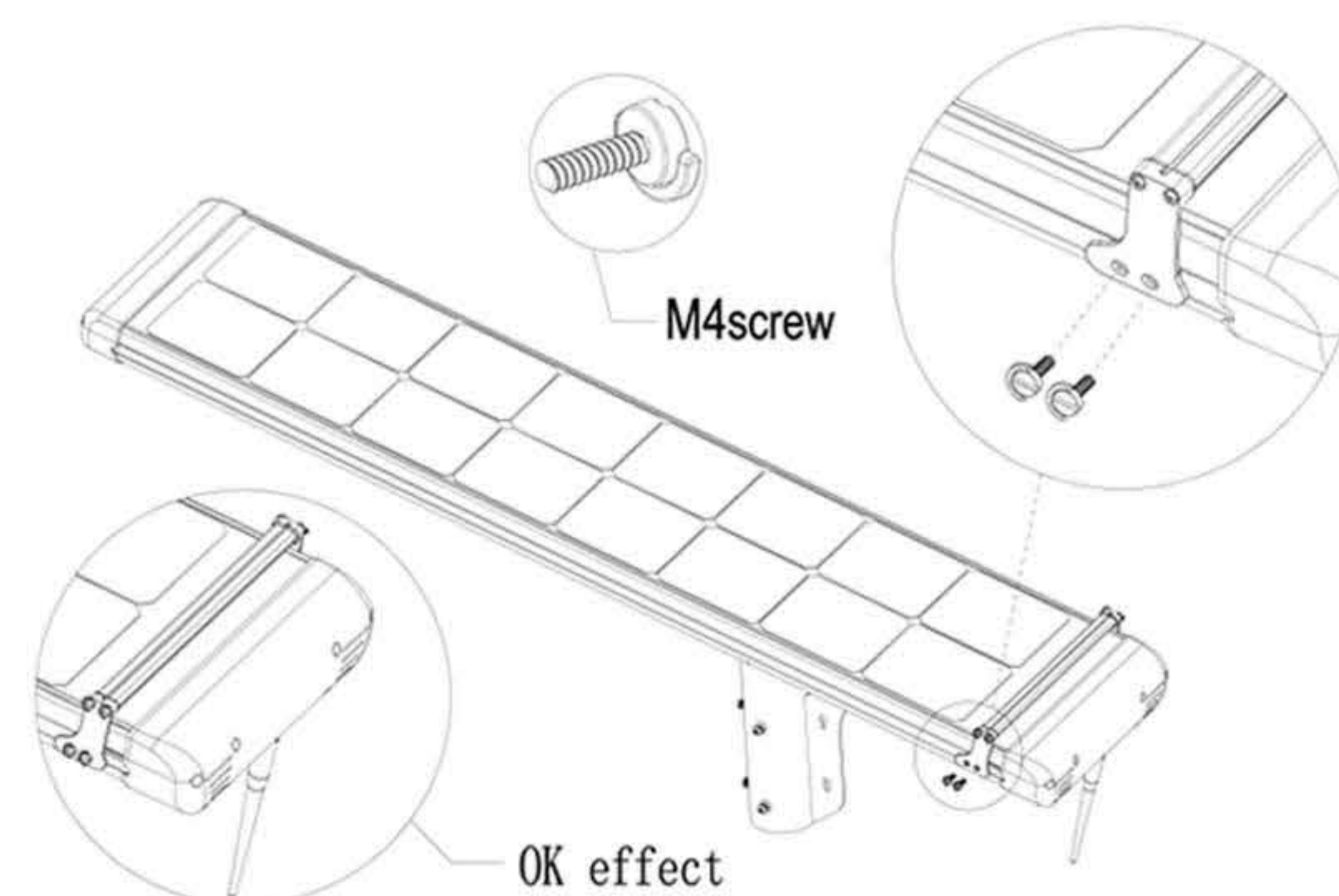
**Step 2** Assemble the cleaning component ( the assembled effect is as shown below ).



**Step 3** The cleaning component installation position is as shown.



**Step 4** Install the cleaning component with the M4 screw as shown in the figure, note that the rubber strip should be attached closely to the solar panel.



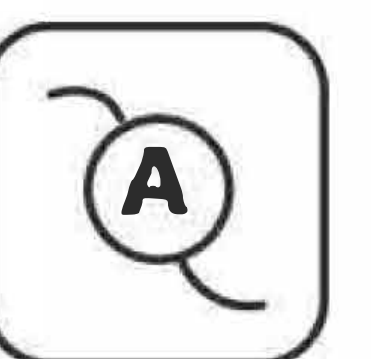
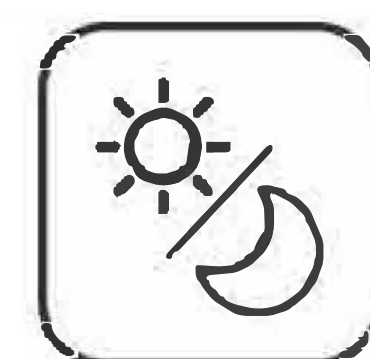


**SWISS  
LED**

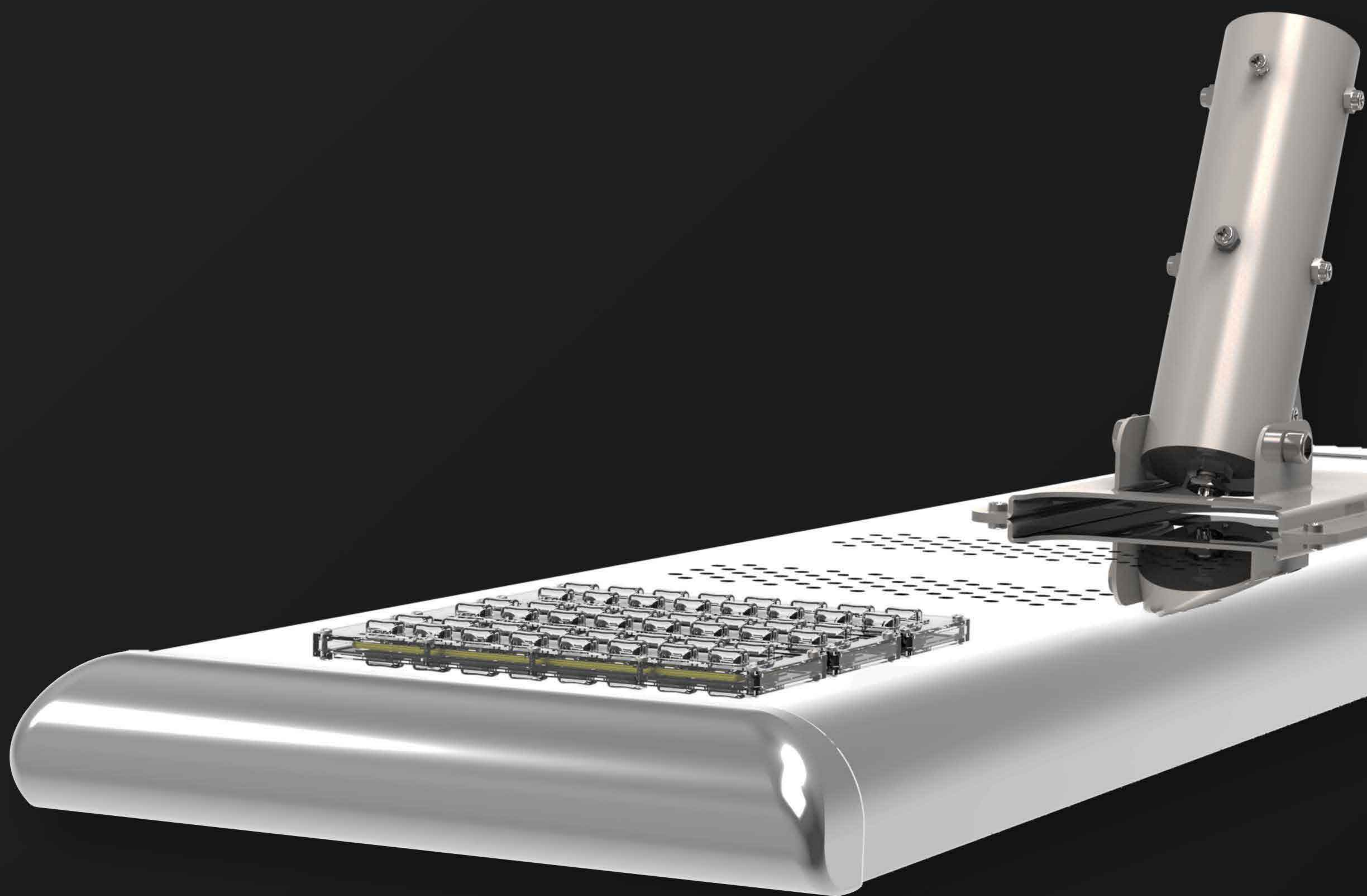


**5**  
years  
warranty

**NHP**







*All aluminium alloy design*



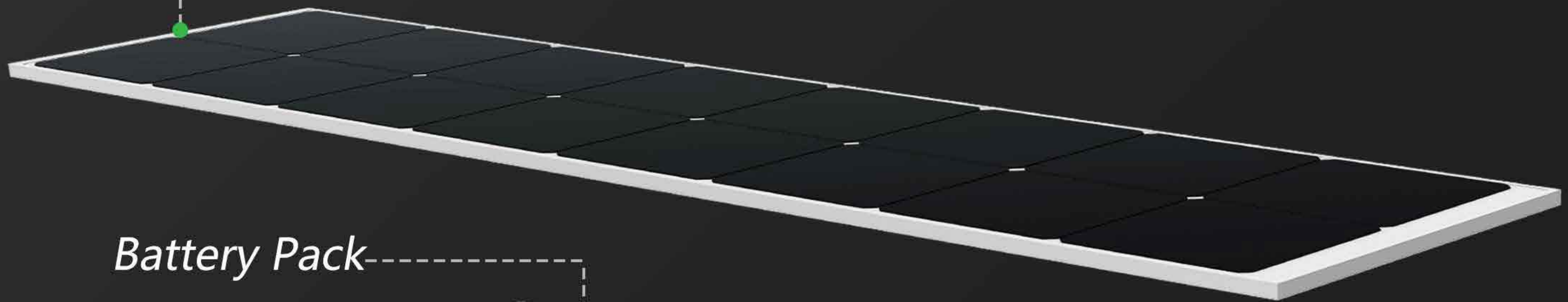
Easy installation  
tool free buckle design



*Adjustable led source(Optional)*

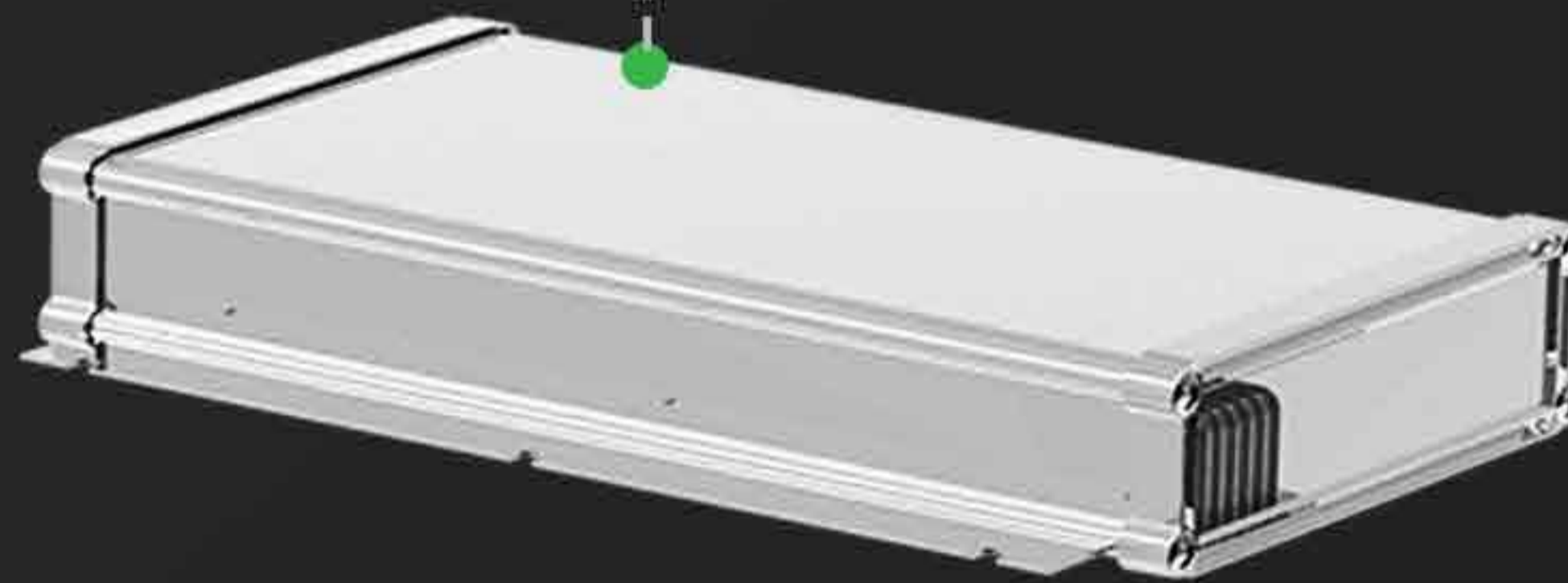
High efficiency solar panel  
(24% efficiency)

**Solar Panel**



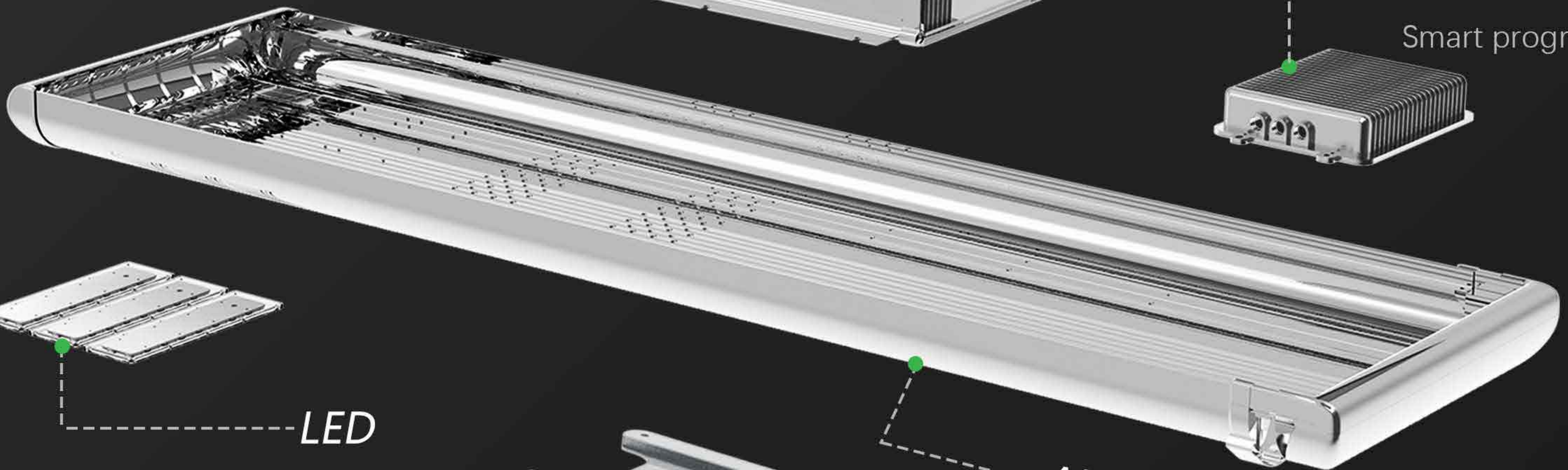
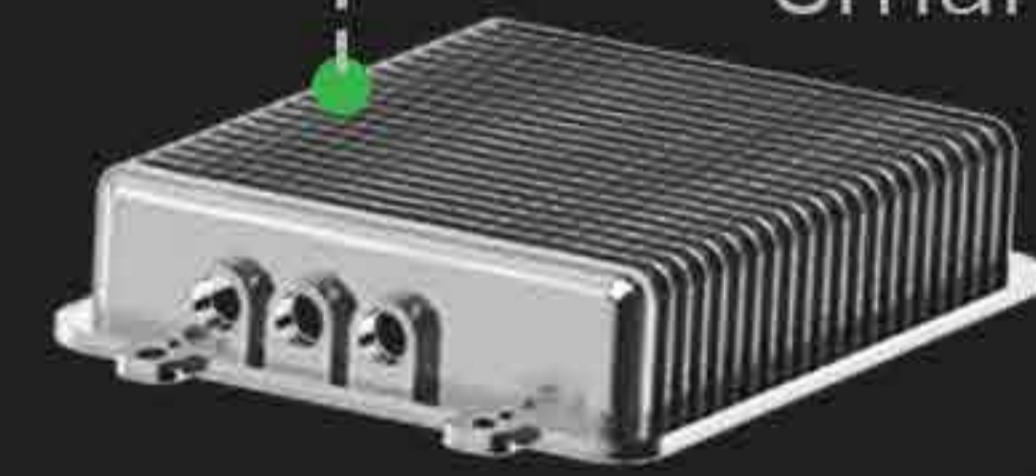
**Battery Pack**

CATL brand ,6000 cycles  
lifespan,IP67



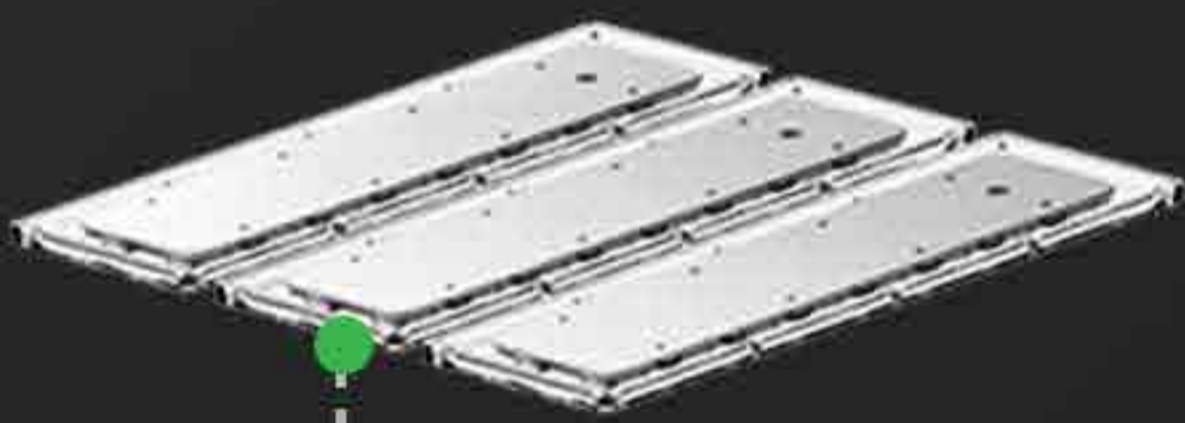
**MPPT**

Smart programmable



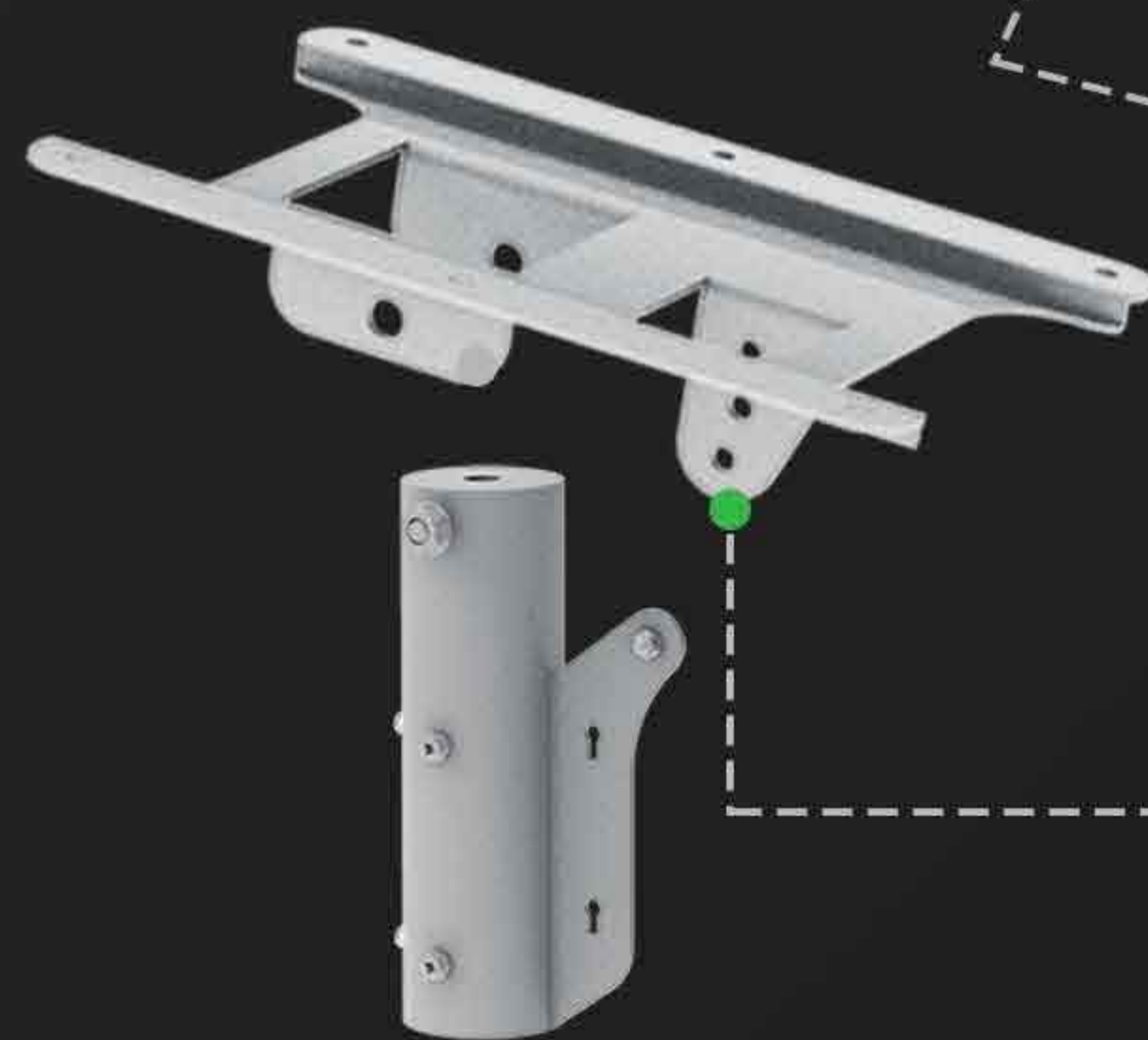
**LED**

Max 5W per Chip  
240LM/W



**Aluminum Alloy Housing**

Excellent heat dissipation  
design AL6063



**Bracket**

Anti corrosion  
Angle adjustable



*NEW HP LED module - Easily folds and unfolds, Best applied for either directions of road to let Solar panels absorb Maximum sunlight*

# ALSO WE HAVE WHAT OTHERS DON'T



Modular design  
SKD shipping available



Buckle design, Easy installation  
Tools free maintainance



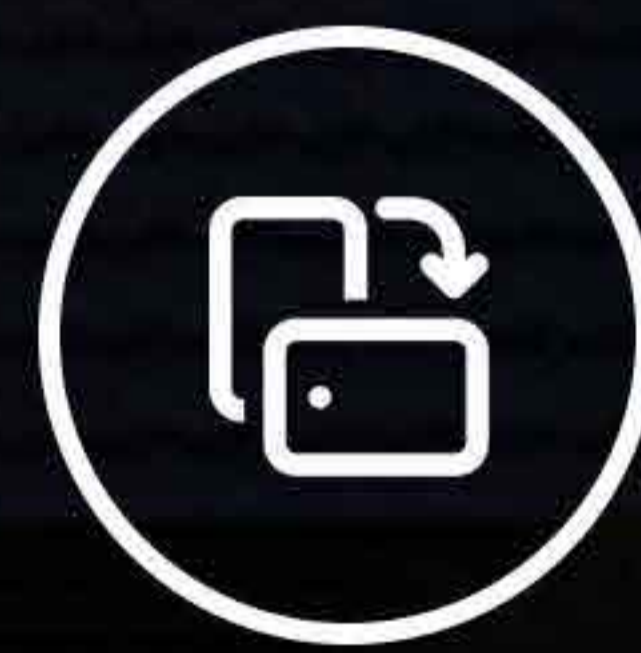
New generation of solar cell  
60% increase in efficiency



All aluminium alloy design



Built in four kinds of  
working mode



Adjustable led source



Mode NO.	NHP-3000	NHP-5000	NHP-8000	NHP-10000
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## Lighting

Light output	3000 - 5000LM	5000-10000LM	8000-15000LM	10000-25000LM
LED Chip	High bright 5050 (5W/PCS,240LM/W)			
CCT	2700-6000K (can be customized)			
Life Span	100,000 hours to LM80 specifications			
Working Way	Motion Sensor / IOT / Time Schedule			

## Solar Panel

Power of PV module	40W	70W	100W	130W
Life Span	80%power after 25years			

## Storage

Battery Capacity	280WH	390WH	550WH	825WH
Lighting time in rainyday	>10 days			
Life Span	4000 Cycles (>10 years)			

## Charging Controller

Life Span	>12years
Working Mode	MPPT
Control Mode	Intelligent, activated by sunlight

## Environment

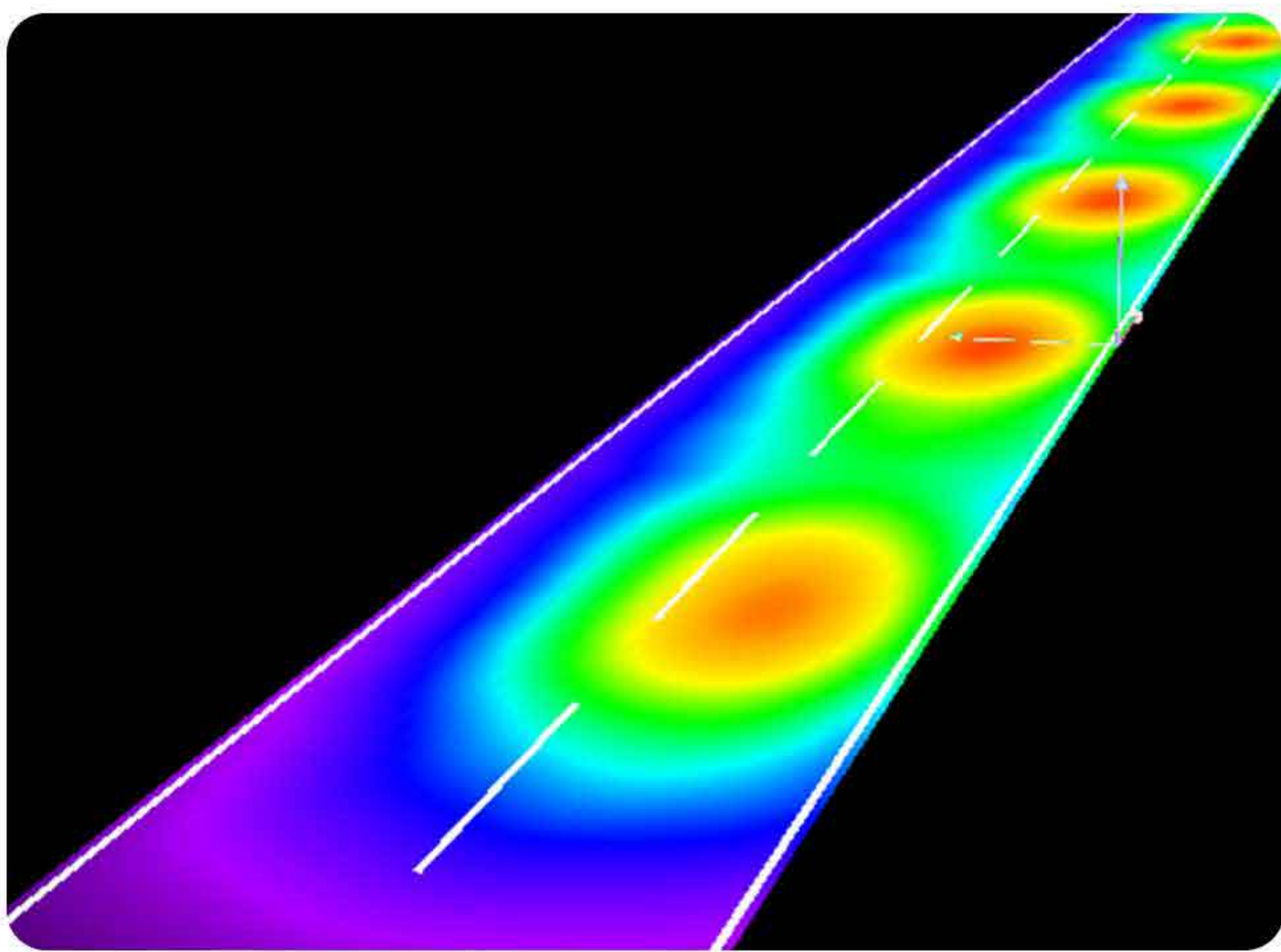
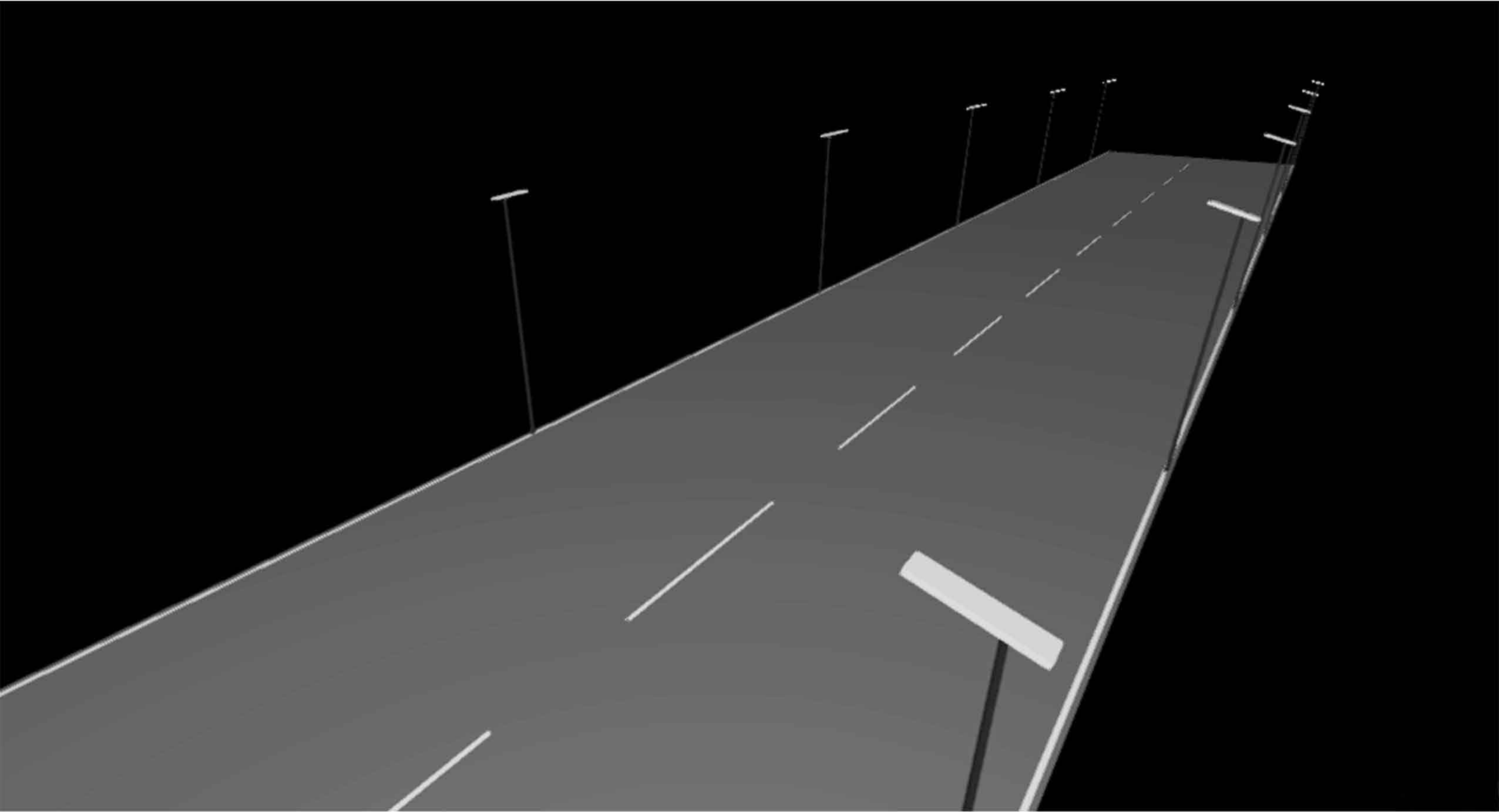
Working Temperature	-15°C to +70°C
Water Resistance	IP65

## Solar panel Autoclean

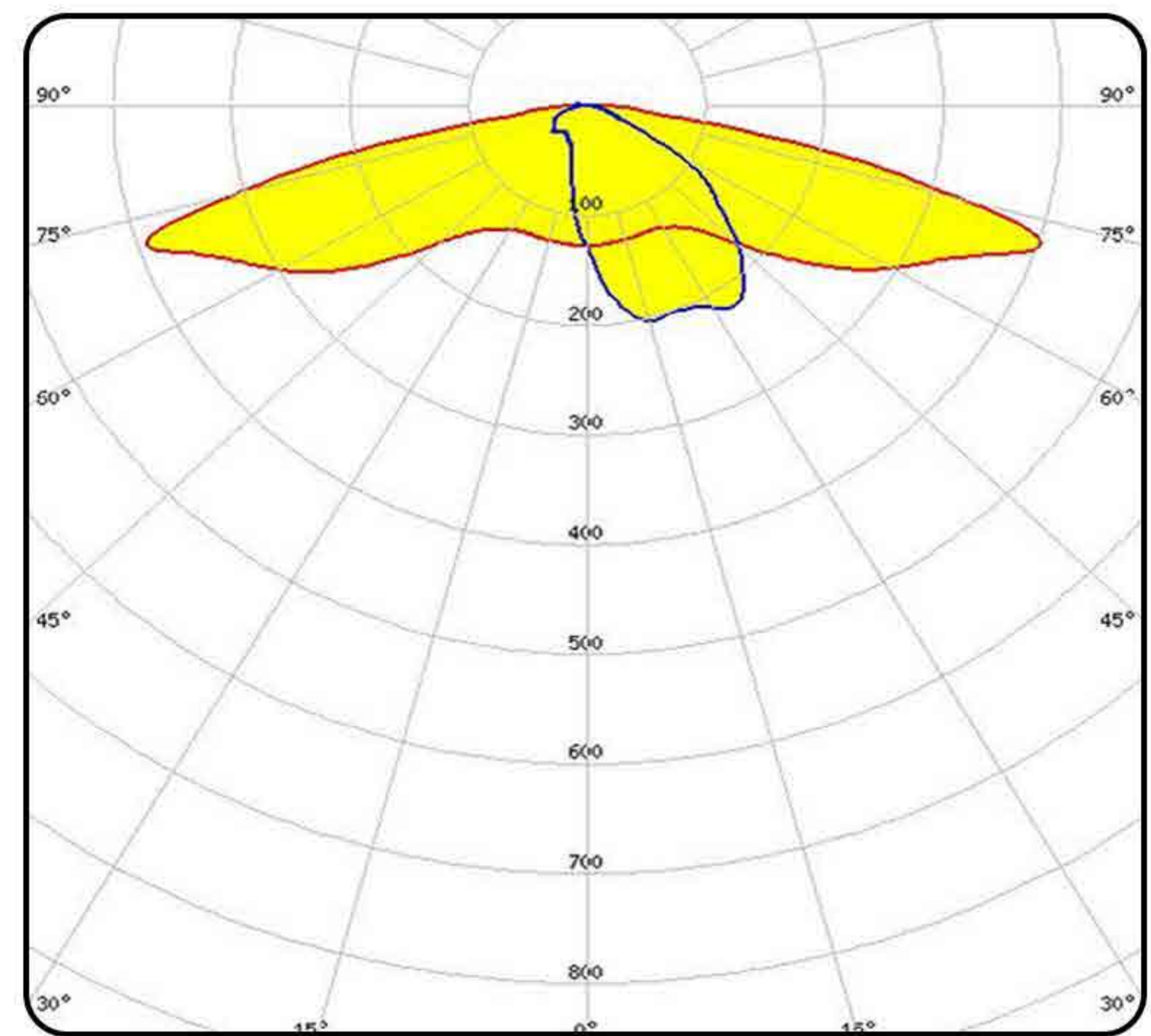
## Mechanical Specifications

Recommended Top diameter of the Pole	76mm			
Recommended Pole Height	3m-6m	6m-8m	8m-10m	10m-12m
Net Weight (Kg)	15.2	19.2	20.2	25.6
Package Dimension (mm)	775*406*84	822*406*84	1206*406*84	1580*406*84

NHP-3000 / 5000 / 8000 / 10000

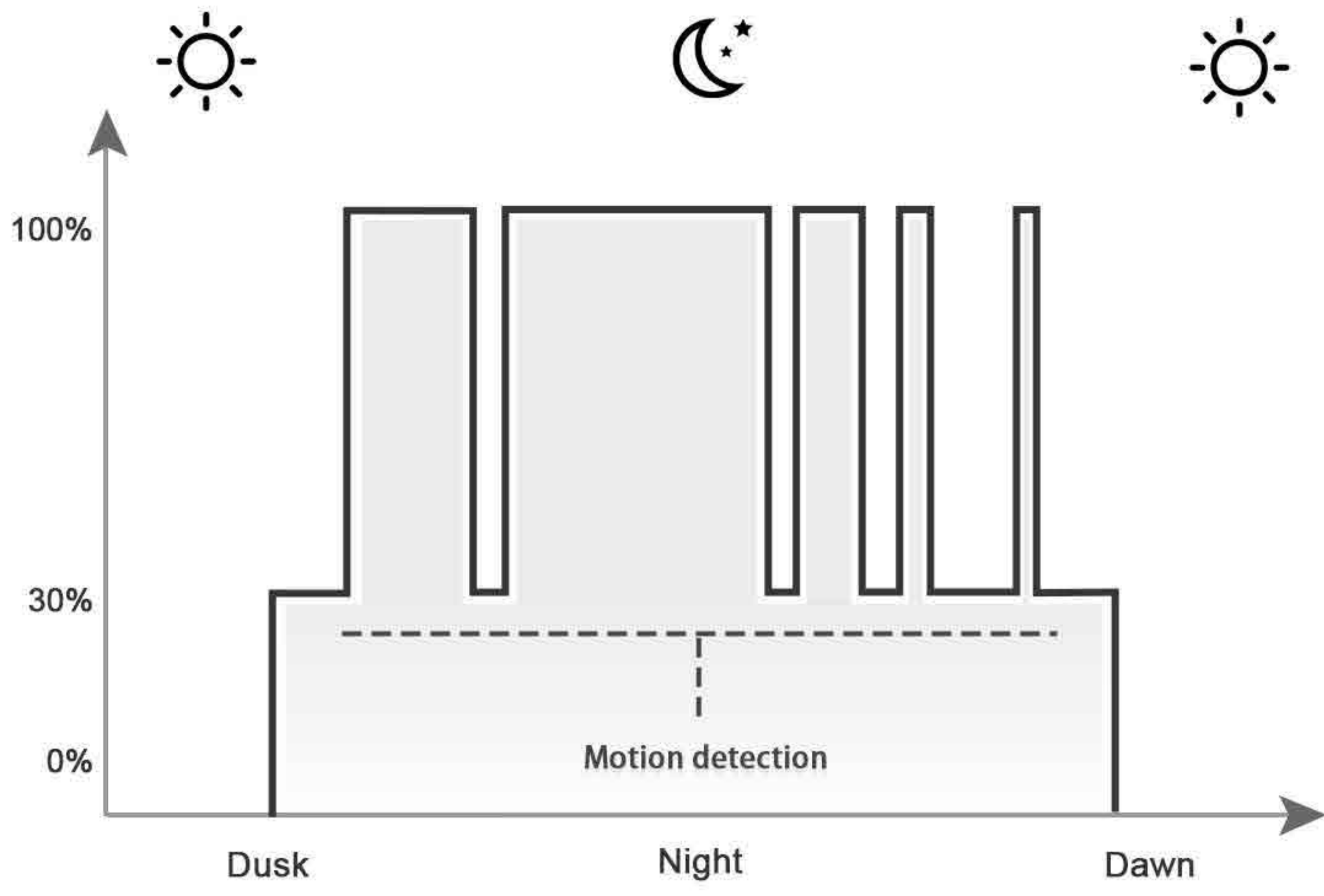


Road Simulated Diagram



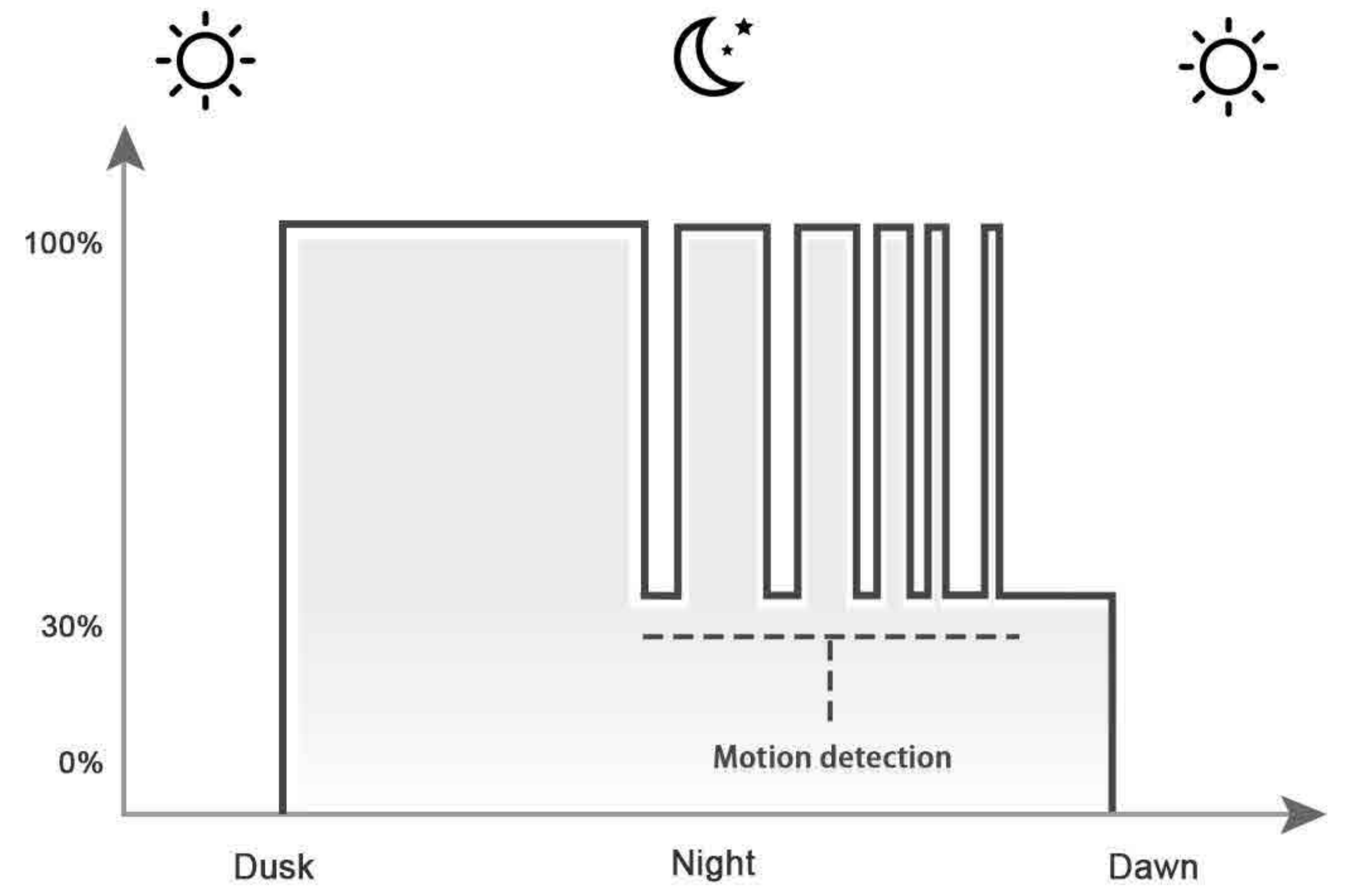
Light Distribution Curve

< 1 >



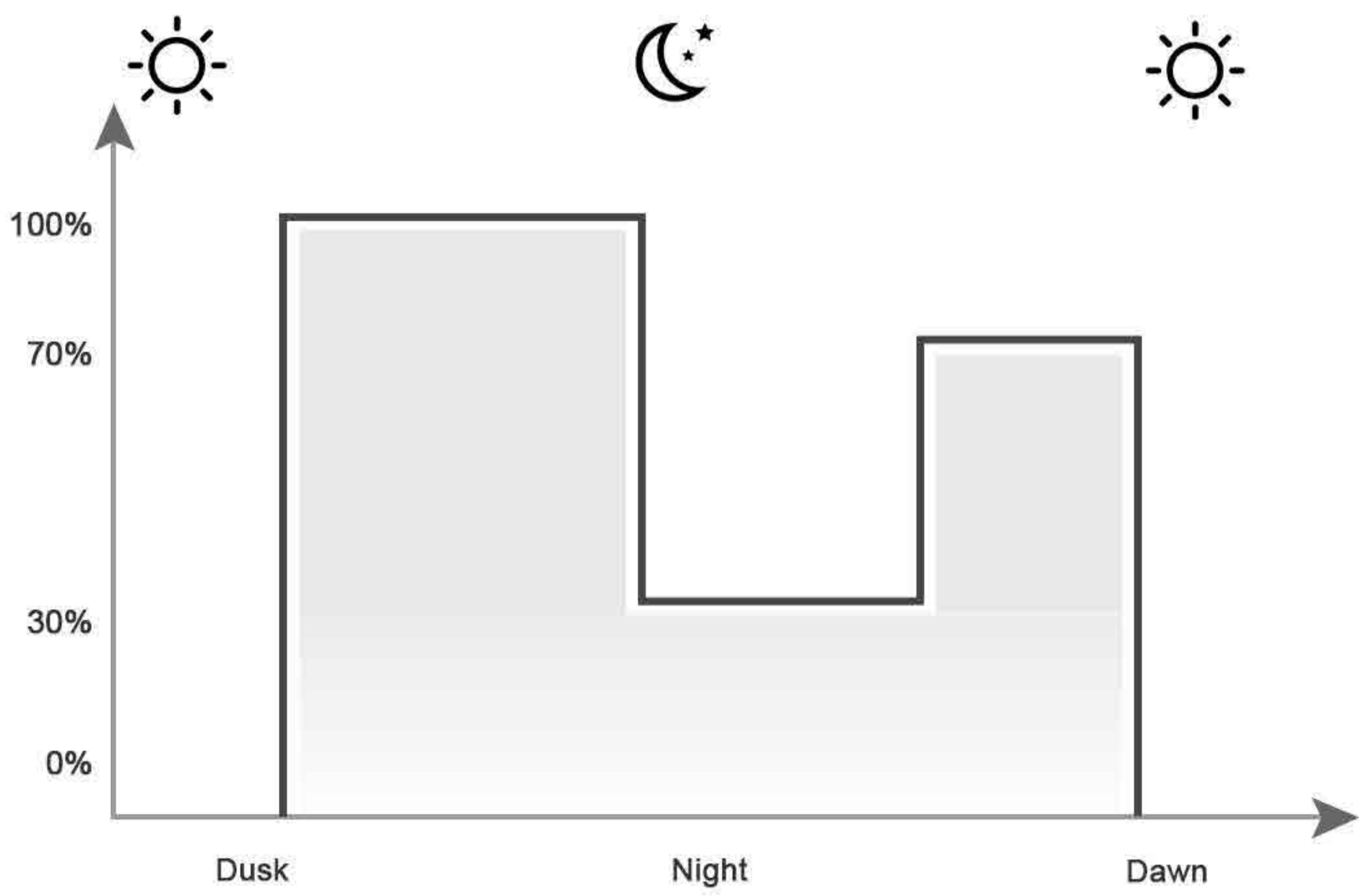
(30% brightness + motion detection till dawn)

< 2 >



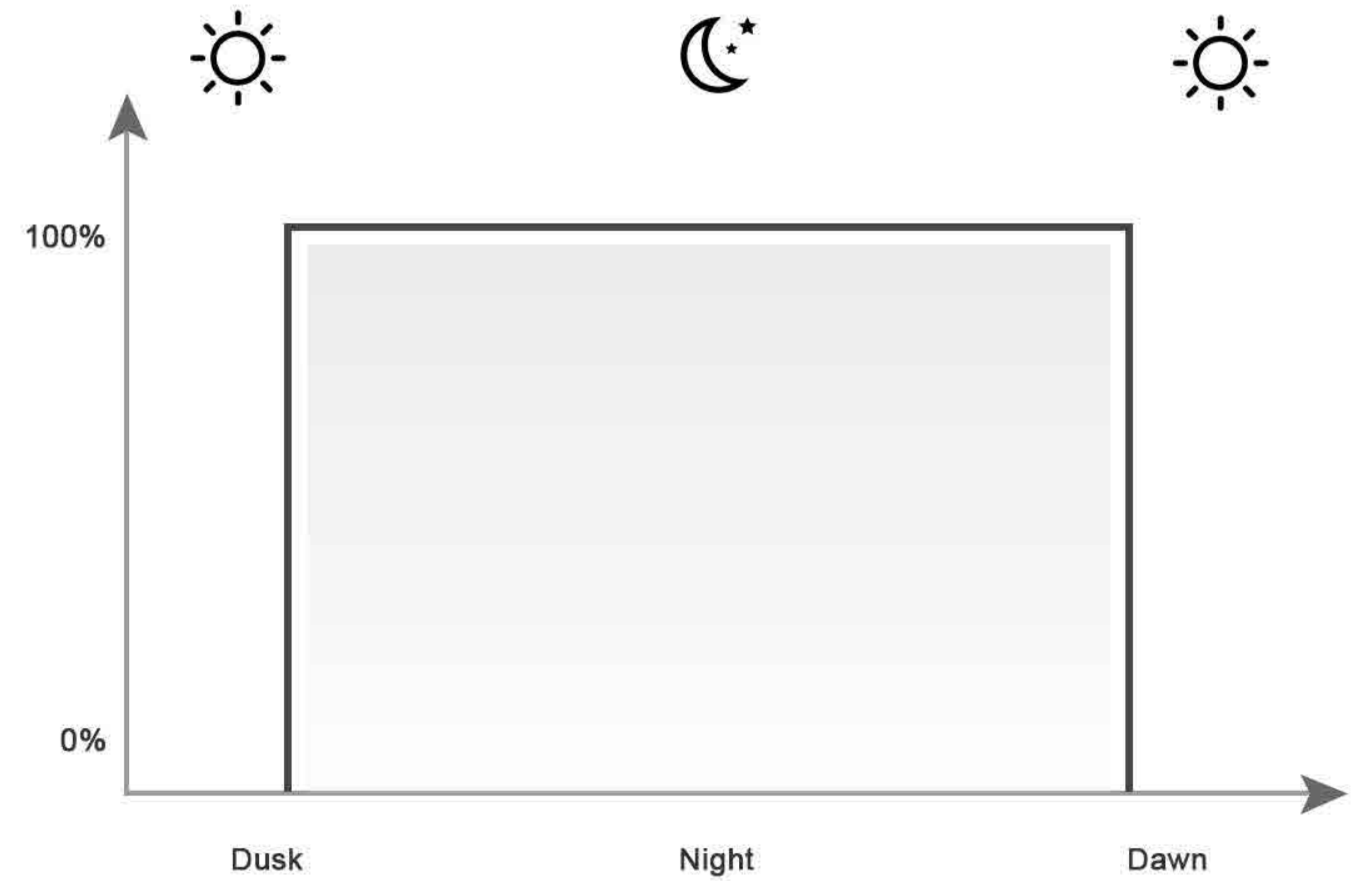
(5hours 100% brightness+30% brightness with motion detection till dawn)

< 3 >



( 5hours 100% brightness+4 hours 30% brightness+70% brightness till dawn )

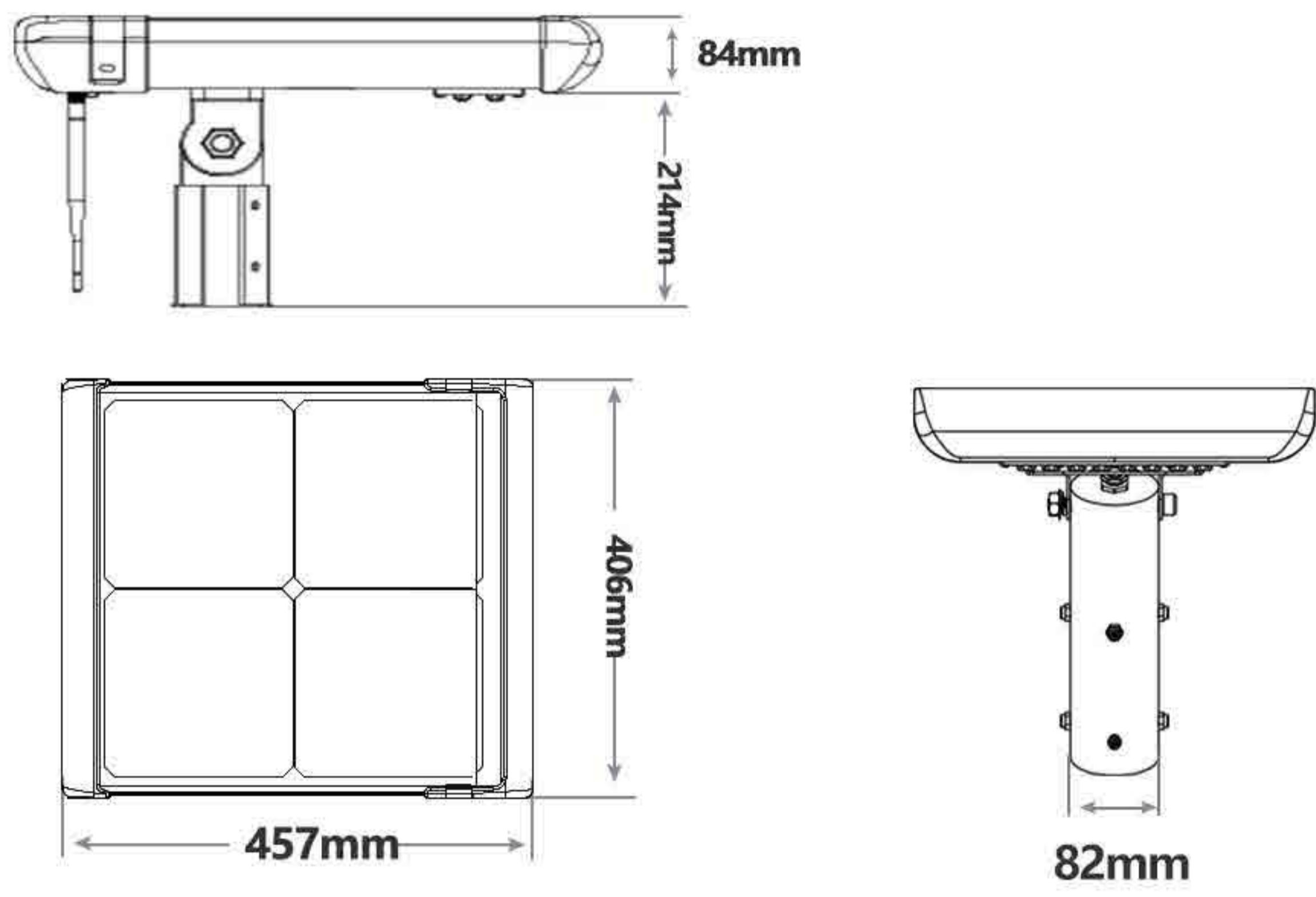
< 4 >



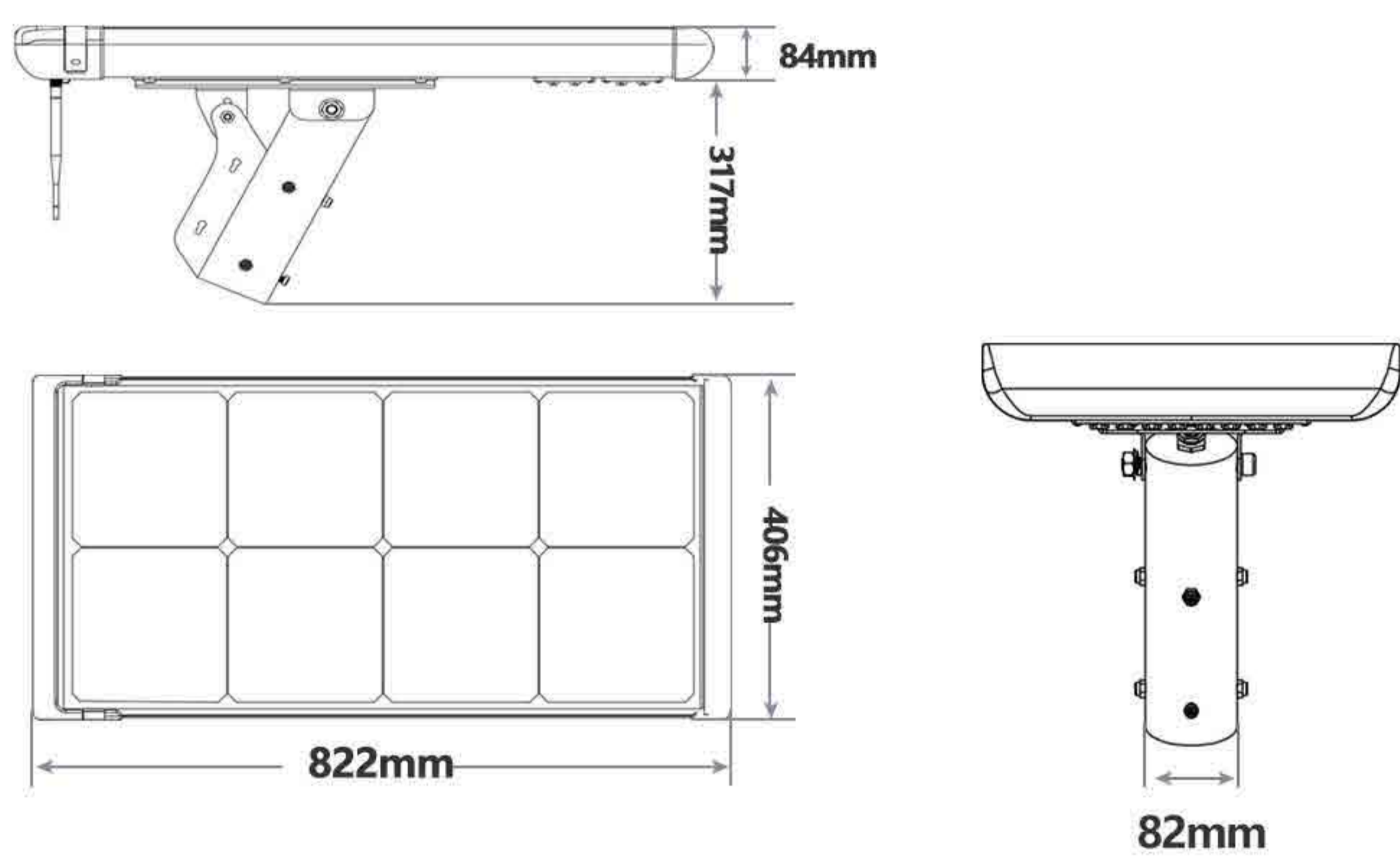
(100% brightness till dawn)

# NHP | FIGURE DIMENSION

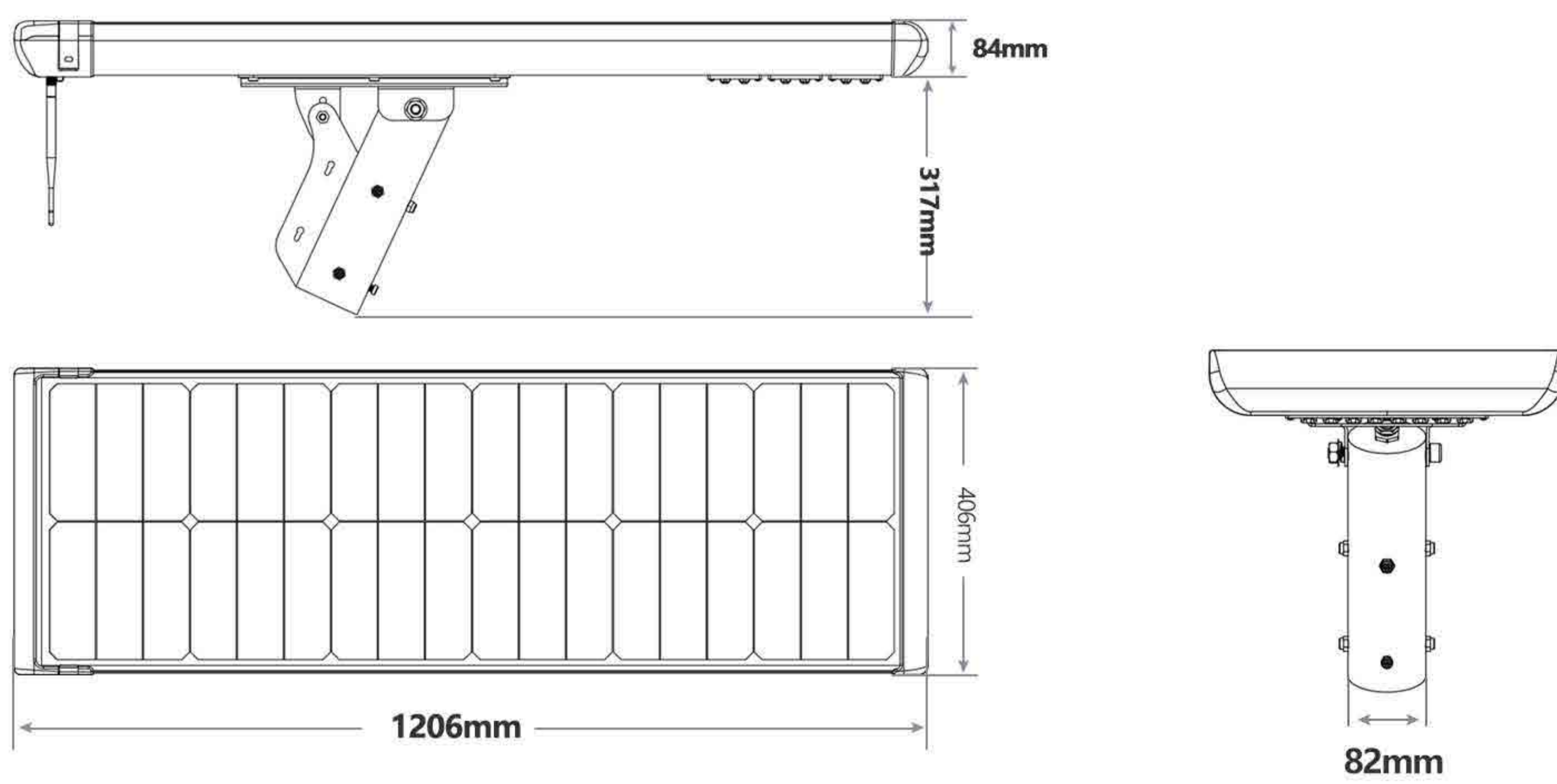
## NHP-3000



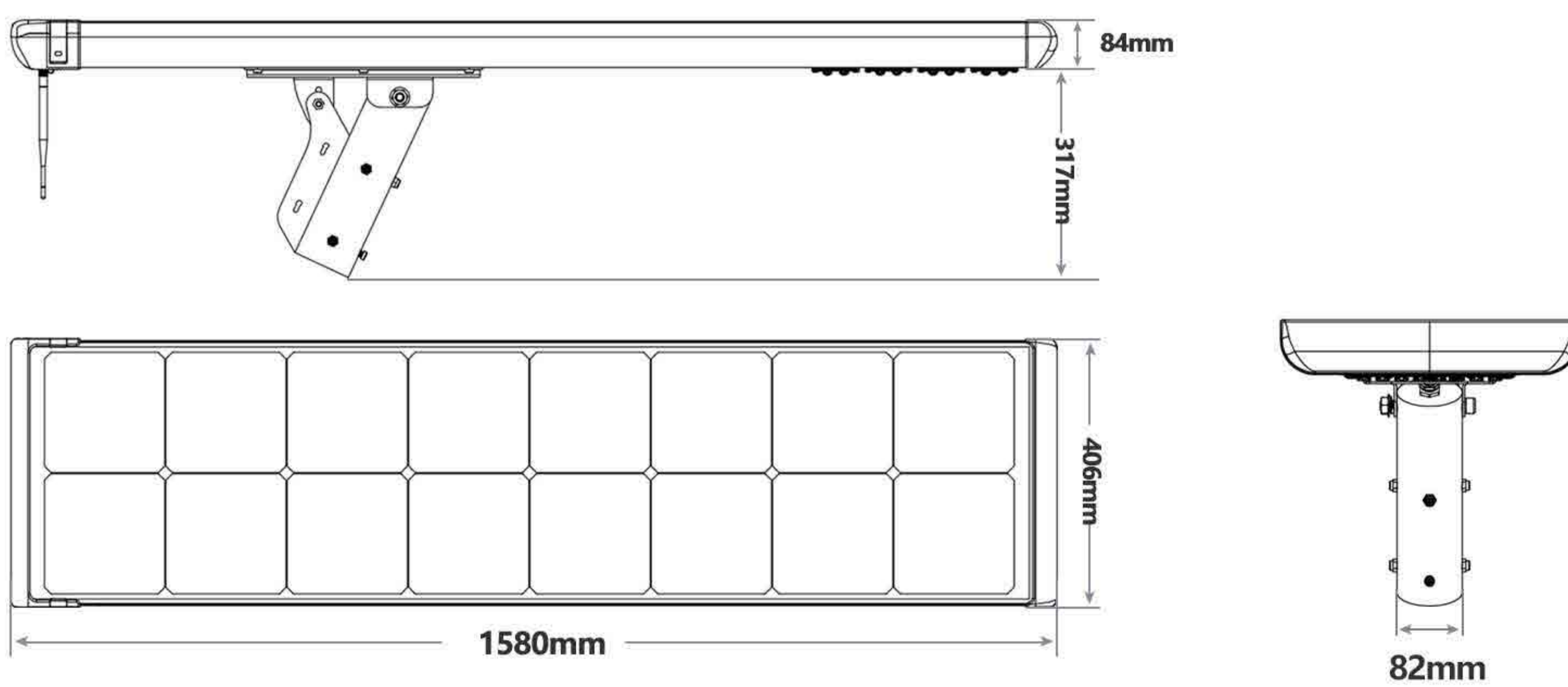
## NHP-5000

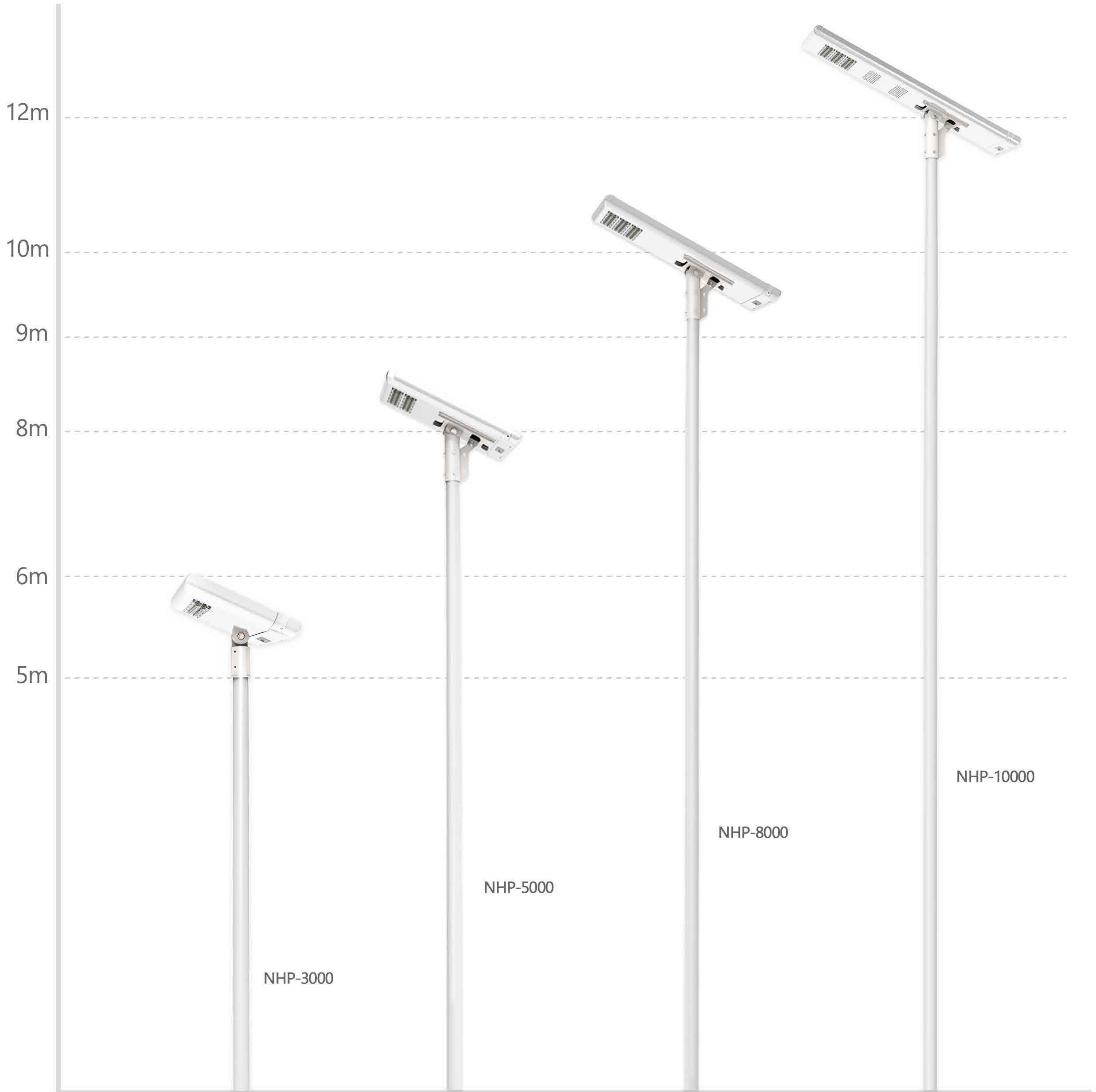


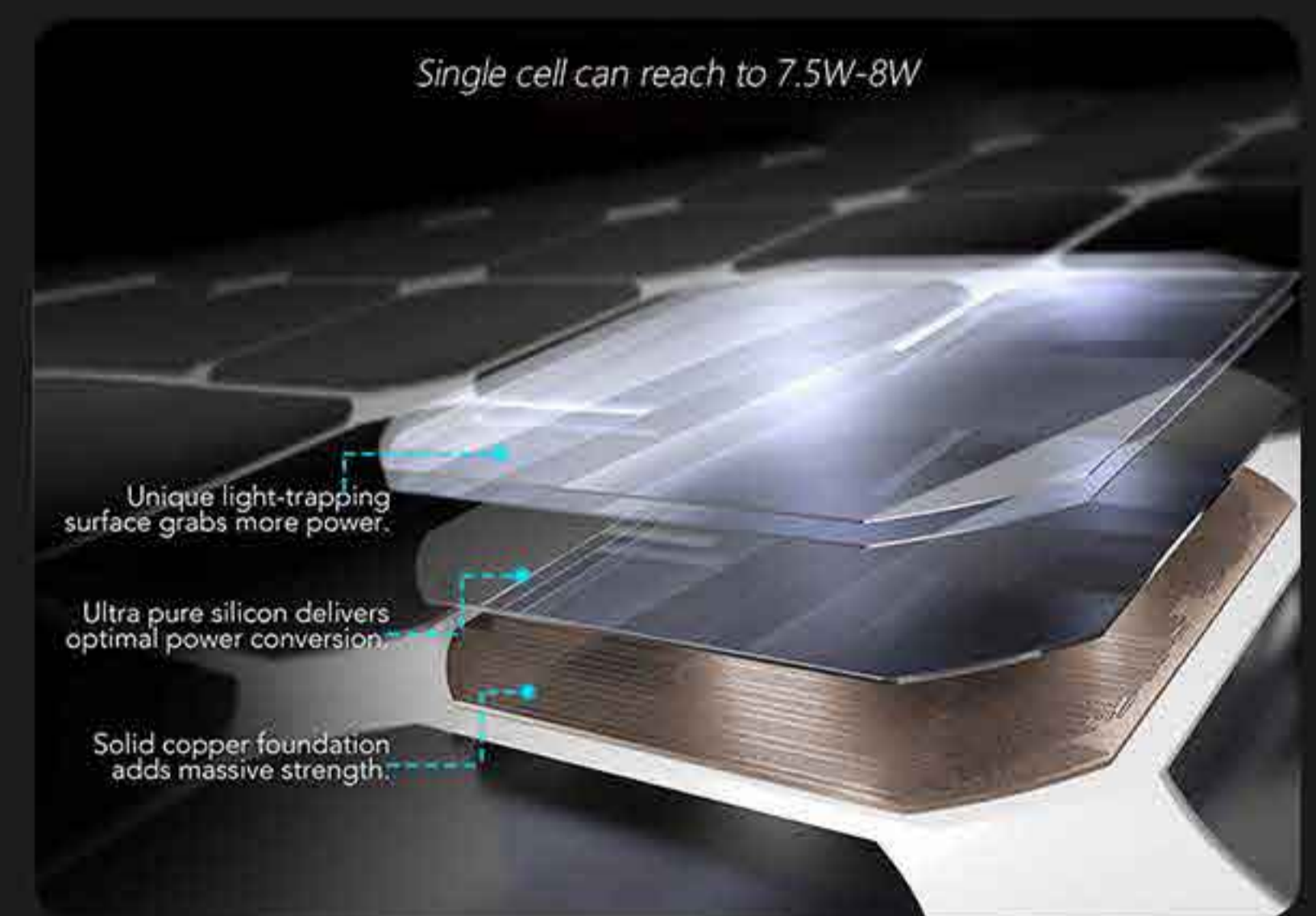
## NHP-8000



## NHP-10000



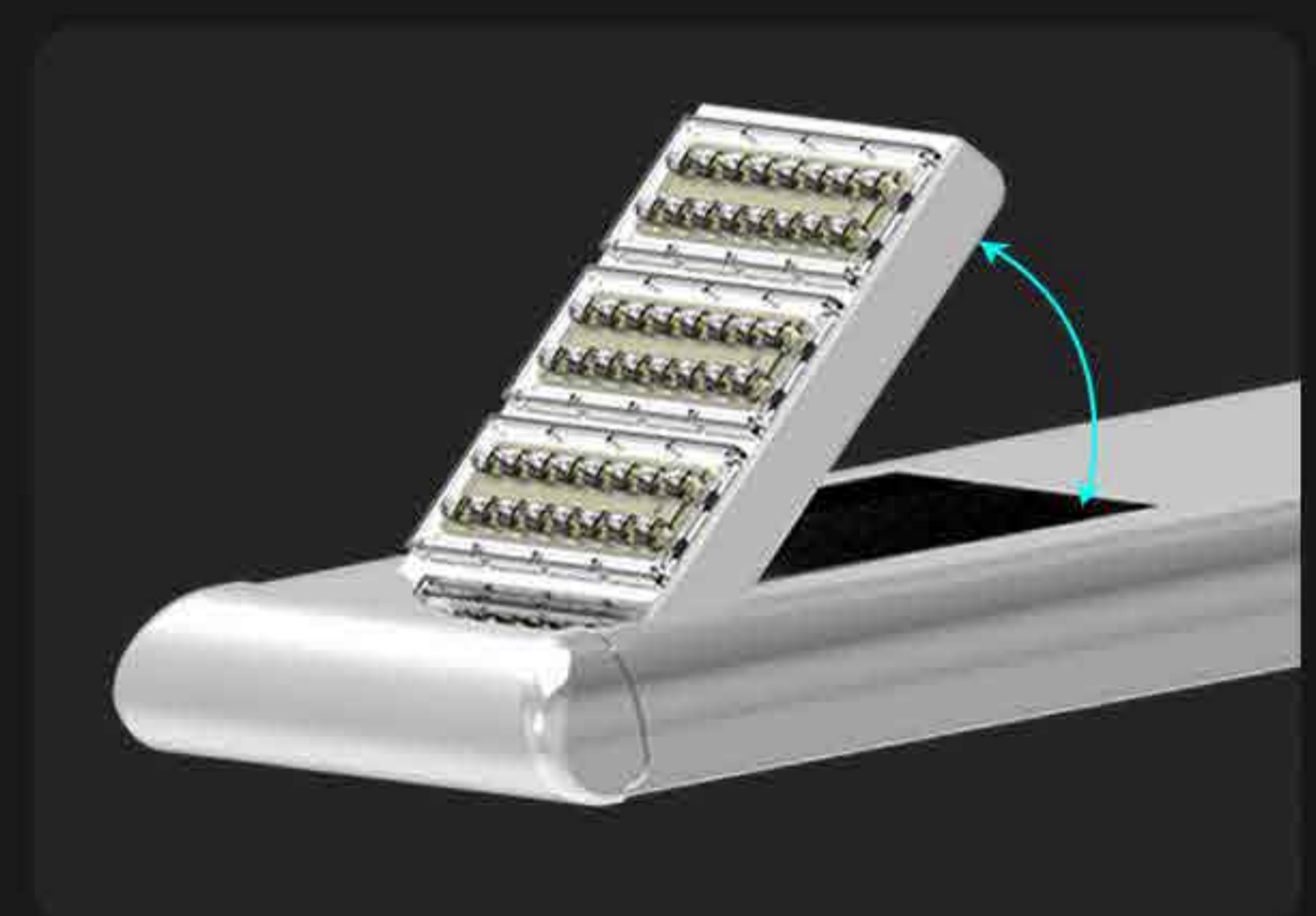




High-efficiency solar panels



Buckle design



Adjustable led source(Optional)

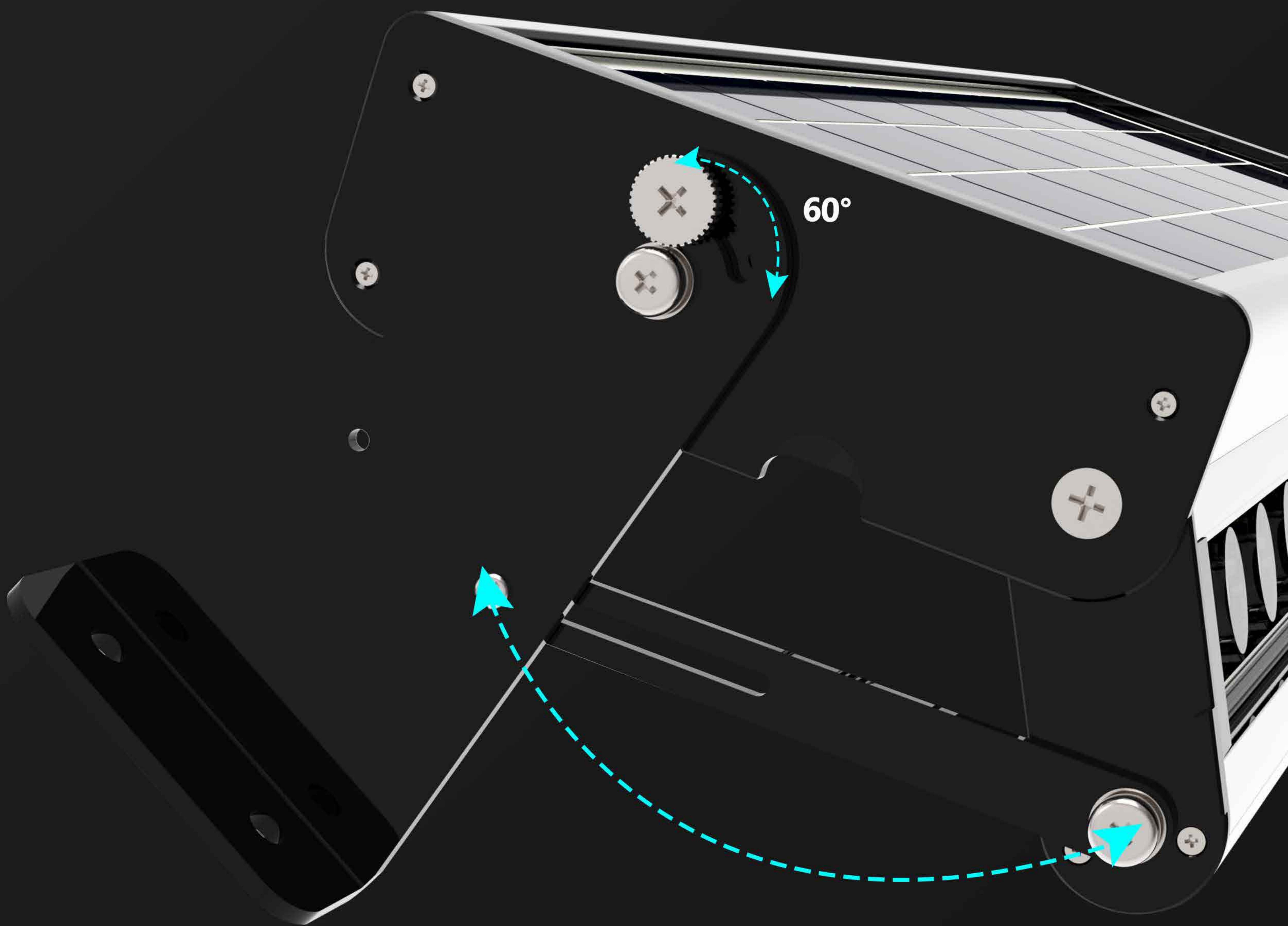
# *SOLAR ELF*





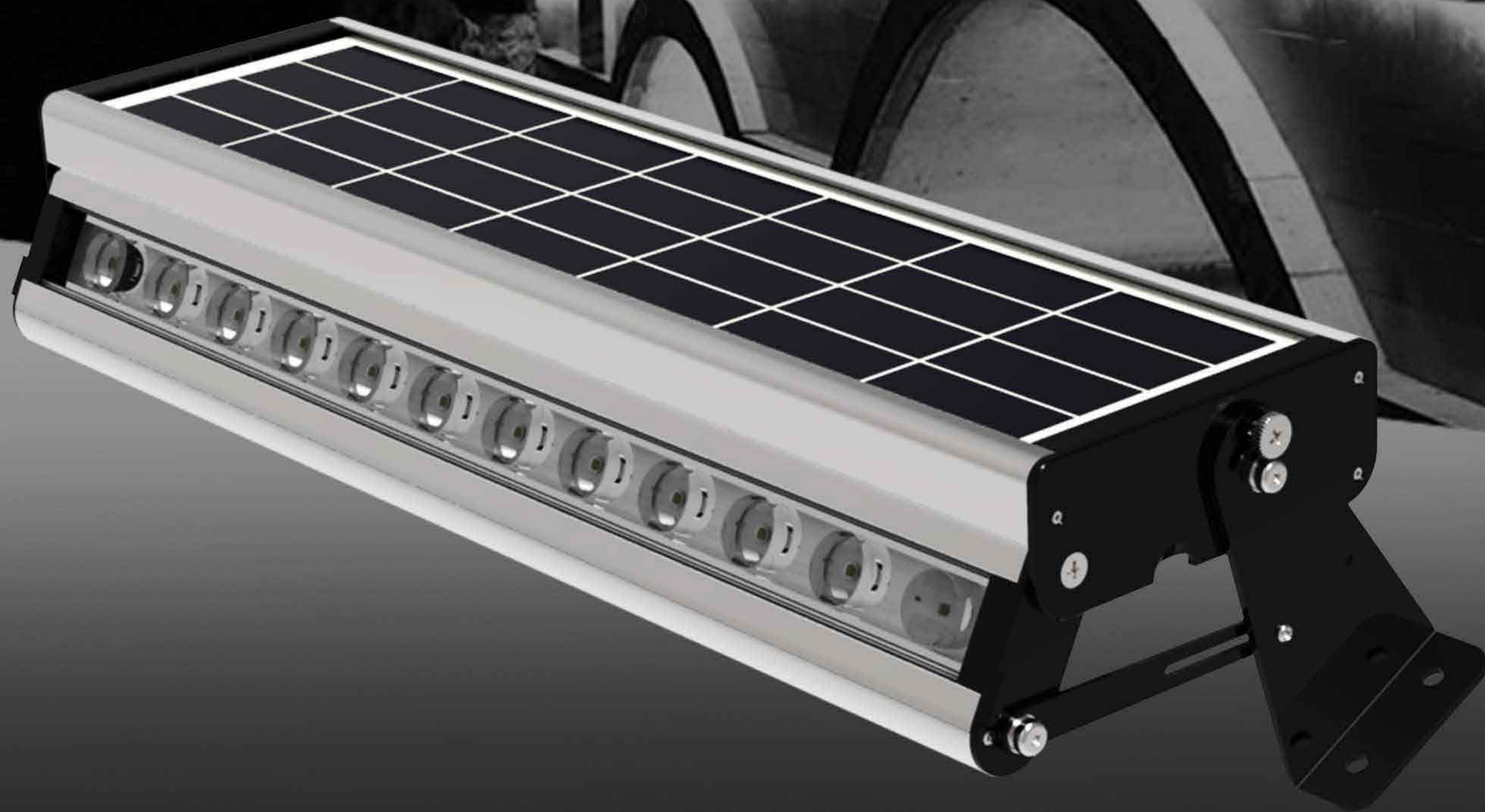
▶ Aluminium alloy 6063





▶ **120°**  
Adjustable Angle

# *Bridge Lighting*



*Square lighting*



# *Ground lighting*



*Wall lighting*

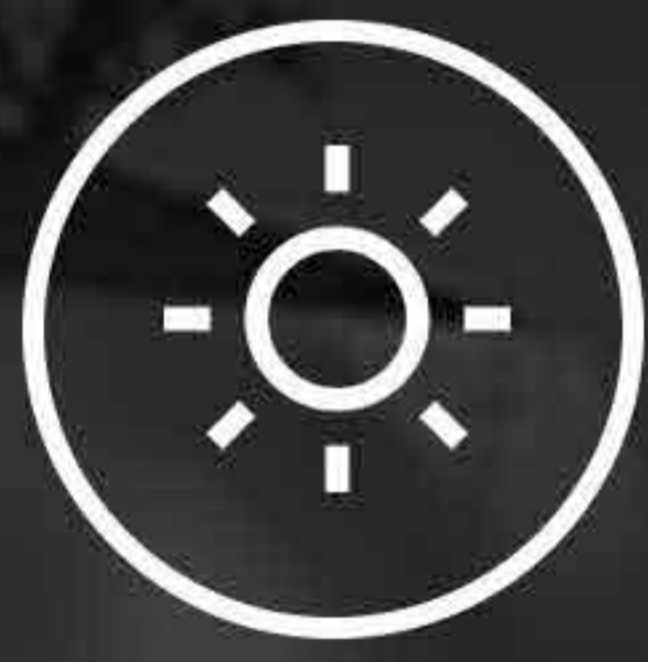


**Higher-Efficiency Solar Panel & Fast Charging**

# ALSO WE HAVE WHAT OTHERS DON'T



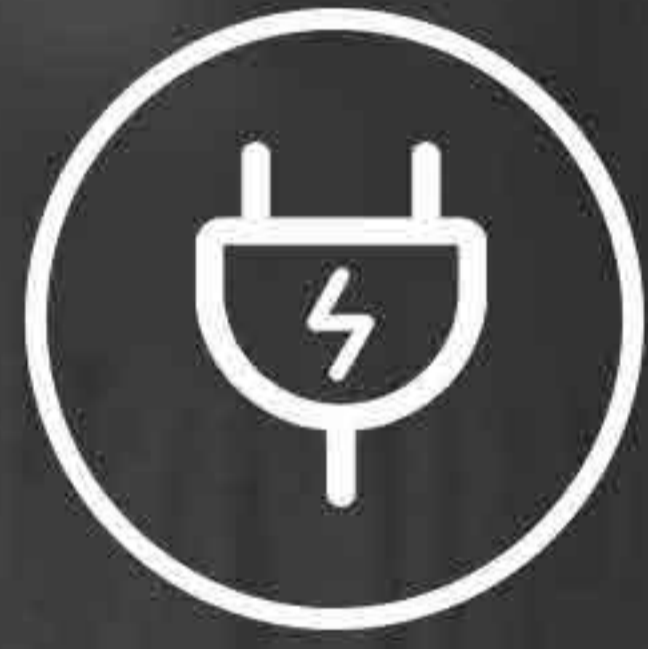
Flexible mounting bracket



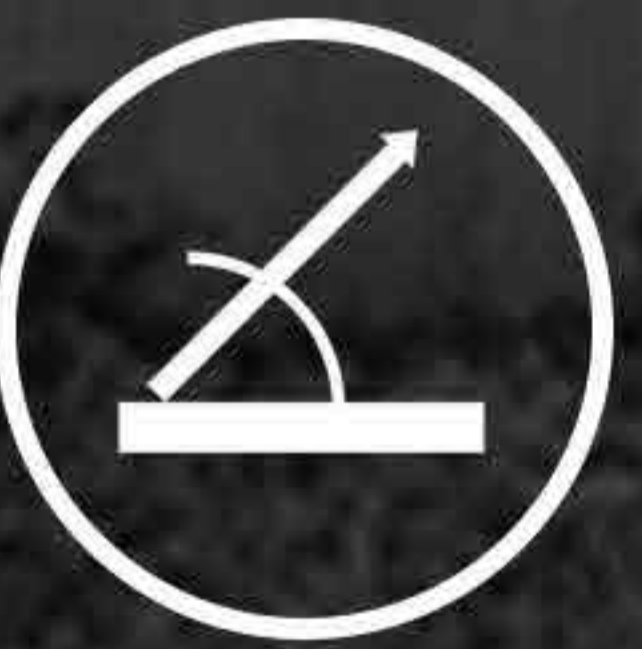
High Brightness



High efficiency solar panel  
(24% efficiency)



No Wiring  
Zero electricity bills



Adjustable angle



Super waterproof  
performance

Mode NO.	Solar Elf-5W	Solar Elf-15W	Solar Elf-25W
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### Lighting

Light Output	500LM	1500-2000LM	2000-3000LM
LED Chip	High bright 3030		
CCT	2700-6000K (can be customized)		
Life Span	100,000 hours to LM80 specifications		

### Solar Panel

Power of PV module	5W	15W	25W
Life Span	80% power after 25 years		

### Storage

Battery Capacity	20WH	80WH	140WH
Lighting time in rainy day	>10 days		
Life Span	4000 Cycles (>10 years)		

### Charging Controller

Life Span	>12 years
Working Modes	MPPT
Control Mode	Intelligent, activated by sunlight

### Environment

Working Temperature	-15°C to +70°C
Water Resistance	IP65

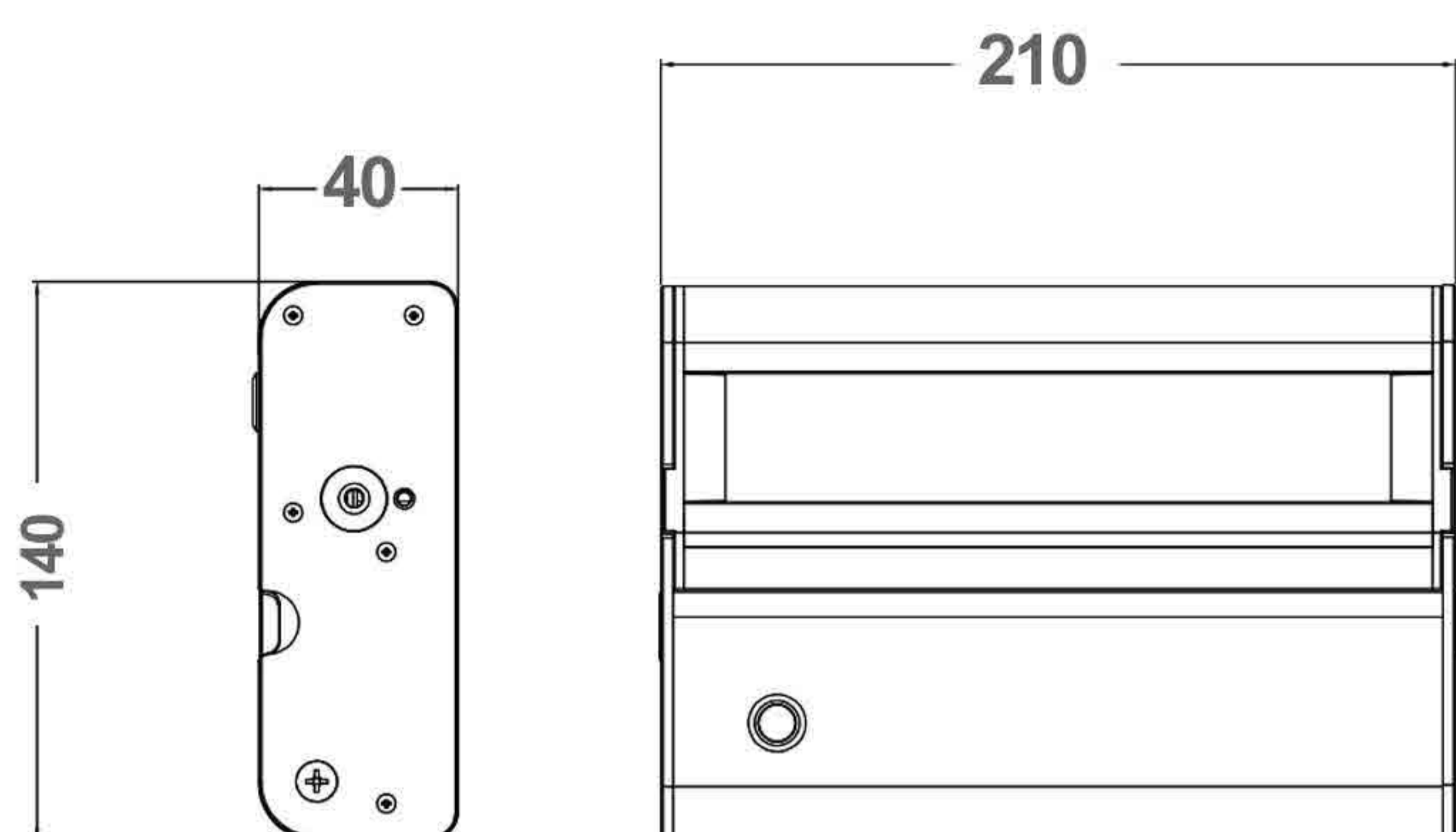
### Solar Panel Autoclean

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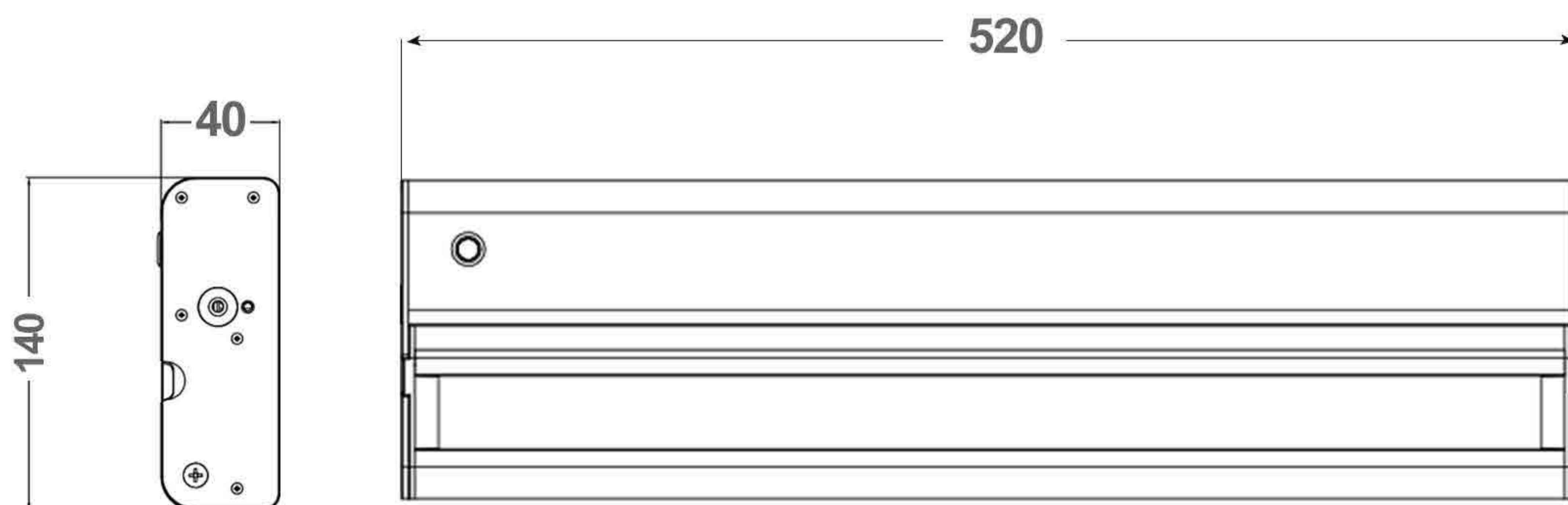
### Mechanical Specifications

Net Weight (Kg)	1.2	5	8
Package Dimension (mm)	210*140*40	520*140*40	1000*140*40

### 5W



### 15W



### 25W

