

# LF46S Series LED Flood Light



## Products description and application

LF46S series LED flood light, it can aim in any direction, and has a structure that is not affected by weather conditions. Provide energy-saving and low-maintenance lighting solutions, with a variety of optical lenses, to provide a stable and comfortable lighting effect for the lighting area, so that the staff can focus more on work safety and work efficiency. It is mainly used for industrial lighting in ports, wharfs, large-area operations mines, airports, stadiums and other places.



## Features

- Highly reliable, efficient LED light source, long life, energy saving and environmental protection.
- Integrated design of fin-type lamp housing, strong integrity, sufficient heat dissipation, light weight and good shock resistance.
- Special spraying process, oxidation resistance, corrosion resistance, fully sealed structure, suitable for high salinity coastal areas.
- The back angle structure design prevents water and dust accumulation.
- Equipped with a waterproof and breathable valve to balance the temperature and pressure inside and outside the cavity to protect the LED light source device.
- The product has multiple color temperature options, good color rendering, anti-glare and good visual effect.
- The vertical angle of the mounting bracket is adjustable from 0° to 180° (5° per grid), suitable for lighting in a variety of different positions.
- Various dimming modes such as 1-10V/PWM/time control can be customized.
- Comes standard with anti-dropping chain and damping pad.

## General Specifications

### Standards compliant

CE:

EN60598-1、EN60598-2-5、EN62493、EN62471、EN55015、EN61547、EN61000-3-2、EN61000-3-3

### Electrical

Operating voltage	100-240VAC
Power consumption	200W 150W 135W 100W 70W
Frequency	50/60Hz
Power factor	PF>0.9
EMC	IEC61000-4-2 Contact Discharge ±8kV Air Discharge ±15kV IEC61000-4-3 800~1000MHz 10V/m IEC61000-4-4 ±2kV IEC61000-4-5 L-N ±6kV L,N-PE ±10kV IEC61000-4-6 0.15~80MHz 10V/m EN55015
Wiring	Cable gland/ Lead wire

### Structure

Base color	Silver
Housing material	Aluminum alloy
Cover material	PC
Finish treatment	Polyester coating
Weight	8 kg
Mounting	Mounting bracket
Operating temperature	-40°C ~ +50°C(over-heat protection)
Anti-vibration	IEC60068-2-6 5g
IP Rate	IEC60529 IP67
Salt spray rate	ISO9227 NSS 720h

### Photometric

Light source	LED	LEDs lifetime	≥60000h
Power consumption	200W	Beam angle	15°/25°/ 60°
CCT	5700K 4000K 2700K		
CRI	Ra≥70 Ra≥70 Ra≥80		

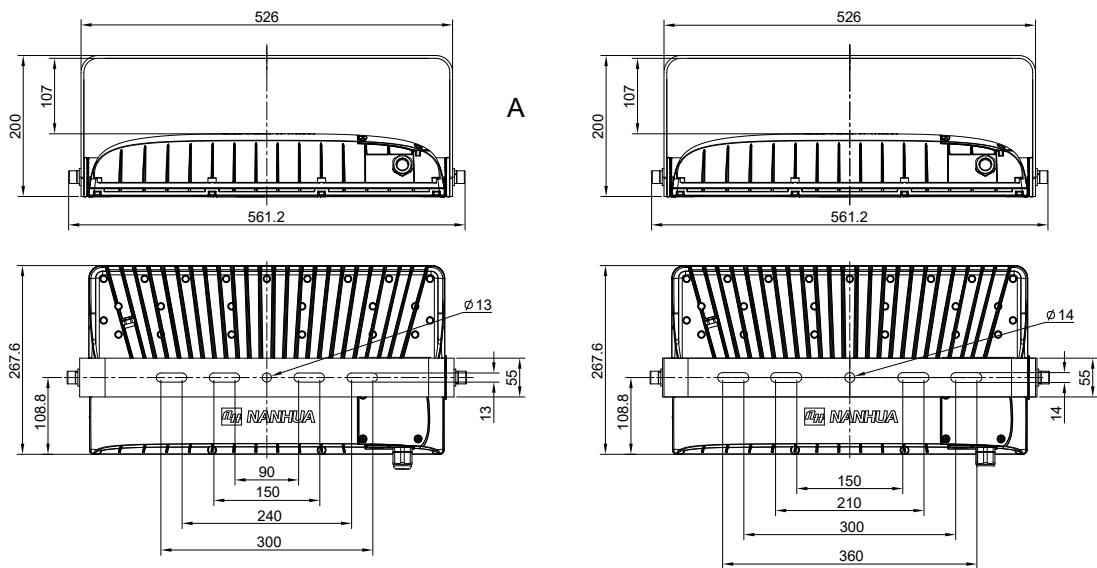
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Lumen per Watt	140 lm/W	130 lm/W	110 lm/W			
Power consumption	150W	135W		100W	70W	
CCT	5700K	4000K	2700K	5700K	4000K	2700K
CRI	Ra≥70	Ra≥70	Ra≥80	Ra≥70	Ra≥70	Ra≥80
Lumen per Watt	150 lm/W	140 lm/W	120 lm/W	155 lm/W	145 lm/W	125 lm/W

## Mounting dimensions

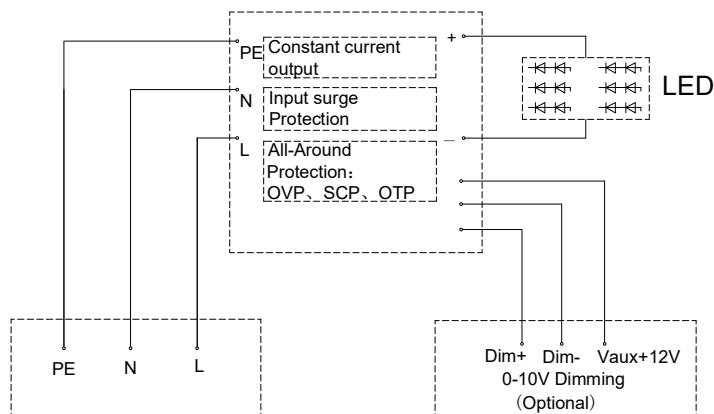
Unit: mm



## Installation and Operation:

- Fix the luminaire with M12 screws and anti-falling nuts on the mounting surface. The mounting surface should be flat and have sufficient mechanical strength.
- Fix the anti-falling chain in an appropriate place, and the fixed surface should have sufficient mechanical strength.
- The installation height is greater than 3 m, two or more screws are required.
- The maximum projection area is 0.14 square meters.

## Wiring diagram



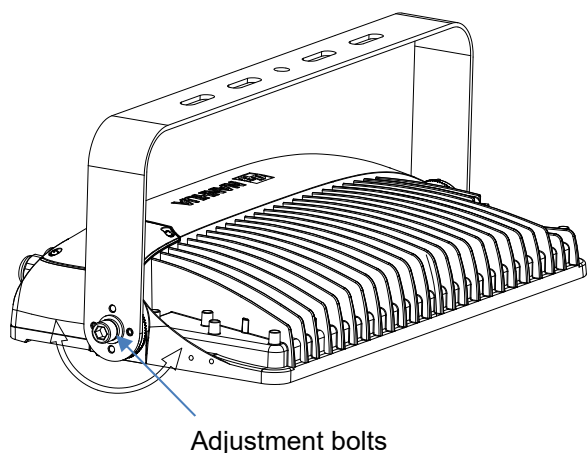
## Wiring method:

- The external power cord of the lamp must meet at least 15AWG (1.5mm<sup>2</sup>) or more three-core sheathed wire.
- Connect the lead wires directly to the L, N, and earth terminals.
- After connecting the power cord, it can work after turning on the power.

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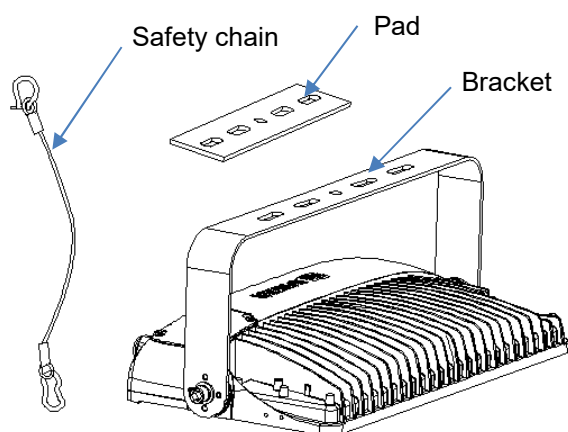


## Installation steps



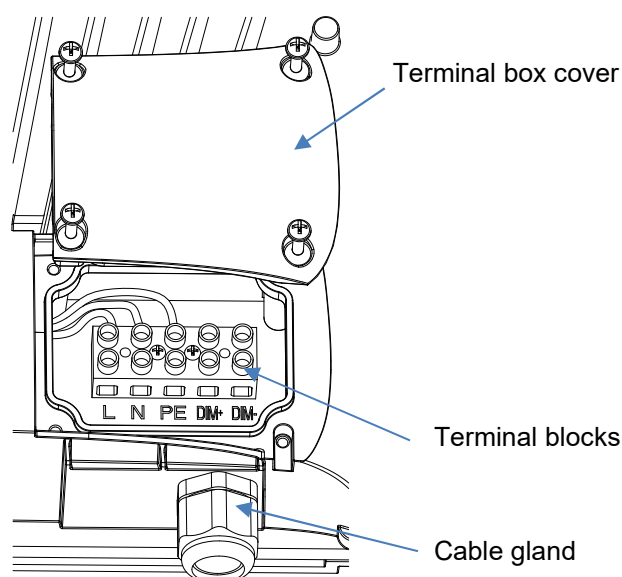
1. Use a 10mm hex wrench to loosen the adjustment bolts on both sides of the bracket, adjust the bracket to the appropriate position, and retighten the bolt.

Note: It is necessary to ensure that the bolts are tightened.



2. Secure the light on a smooth surface which has enough strength with M12 screws and locknuts, and place the shock pad under the light bracket; Fix the safety chain at the appropriate place where has enough mechanical strength.

Note: Smooth surface needs to have enough strength.



3. Use a screwdriver to loosen the screws of the terminal box cover, insert the leads from the cable gland, connect L, N, and PE to the corresponding terminals, tighten the cable gland, and lock the terminal box cover to power on.

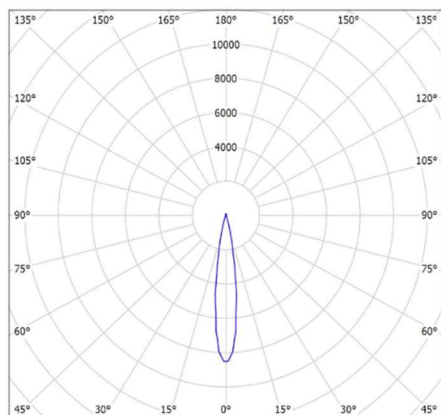
Note: Pull the cable to ensure it is well locked.

## Light distribution curve

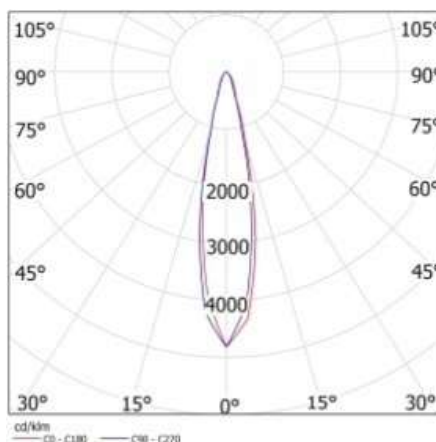
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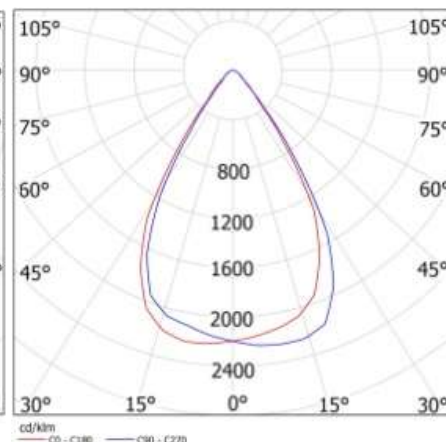
15°Light distribution curve



25°Light distribution curve



60°Light distribution curve



## Precautions

1. The PC material parts of the product should not be in direct or indirect contact with industrial alcohol, banana water, isopropanol, carbon tetrachloride, cyclohexanone and other organic solvents, otherwise there will be a risk of corrosion and cracking.
2. Please connect to the rated working voltage when using.
3. The lamps are not suitable to be covered by heat insulation materials and keep good ventilation.
4. The lamp is not suitable to be directly installed on the surface of ordinary combustible materials.
5. The shortest distance between the lamp and the illuminated object is 3 meters to avoid fire.
6. When using the lamp, do not look directly at the light source.
7. When the lamp is in use, there is a certain temperature rise on the surface of the shell and lampshade, which is a normal phenomenon.
8. To replace and maintain the lamps, the power supply should be cut off first, and the lamps should be cooled down by professionals.
9. Please read the manual carefully before use, if you have any questions, please contact our company.



10. "Do not stare at the operating light source" "The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 10,976 m is not expected".
11. To reduce the risk of strangulation the flexible wiring connected to this luminaire shall be effectively fixed to the wall if the wiring is within arm's reach.
12. For non-replaceable light sources (for glass lamp cover models):The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire shall be replaced.
13. For non-user replaceable light sources (for plastic lamp cover models):"The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person".
14. For type Y attachments:if the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

## Selection table

# LF46S Series LED Flood Light




LF46S-①②③④⑤⑥

①Voltage	②Power	③Color temperature	④Beam angle	⑤Wiring	⑥Mounting
A 100-240VAC	200 200W	C 5700K	N 15°	1 1-M20*1.5 Cable gland(φ10~14mm)	A Mounting bracket (U type/SUS316/4mm/90~150mm and 240~300mm)
	150 150W	W 2700K	M 25°	2 Lead wire 2m	B Mounting bracket (U type/SUS316/4mm/150~210mm and 300~360mm)
	135 135W	N 4000K	W 60°		
	100 100W		R 15°+Glass		
	070 70W		S 25°+ Glass		
			T 60°+ Glass		

## How to Order

P/N	Model	Power (W)	Voltage	Color temperature	Beam angle	Wiring	Mounting
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### Correct Disposal of this product

	<p>This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.</p>
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Thanks for choosing our products, NANHUA Electronics is the professional brand of signal transmission and high quality industrial lighting which is trusted and loved by global users from various industries. Read and understand these instructions completely and carefully. Wrong installation and operation may lead to fires, electric shock, and others. Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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