

# LF80 Series LED Flood Light



## Products description and application

LF80 series modular LED flood lights, combined with a variety of optical lenses, provide lighting solutions with high efficiency, energy saving and low maintenance rate, and provide stable and comfortable lighting effects for the lighting area, so that staff can focus more on work safety and improve work efficiency. It is mainly used for industrial lighting in ports, large-scale operation mines, airports, stadiums and other places.

## Features

- High thermal conductivity aluminum extrusion molding heat sink, improve LED service life.
- Well-designed heat flow channels keep the luminaire excellent heat dissipation performance.
- Equipped with waterproof and breathable valve to balance the temperature and pressure inside and outside the lamp to protect the LED light source device.
- A variety of optical light distribution options are available for more lighting scenarios.
- Clear and visible illumination angle adjustment, suitable for lighting in a variety of different positions.
- Optional light shield can be used to make the light interception effect of lamps better and effectively reduce glare.

## General Specifications

### Standard

CE:

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

UL:

UL1598、UL8750/CSA C22.2 NO250.0-08、CSA C22.2 No250.13

Electrical		Mechanical	
Rated voltage	100-240VAC	Color	Silvery white
Frequency	50/60Hz	Housing	Aluminum alloy
Rated power	300W 400W 600W	Cover	PC
PF	PF>0.9	Finish	Anodized
EMC	IEC61000-4-2 Contact discharge:8KV	Weight	11Kg 12Kg 17Kg
	Air discharge:15KV	Mounting	Bracket
	IEC61000-4-3 800~1000MHz 10V/m	Ta	-40°C ~ +50°C
	IEC61000-4-4 ±2KV	Vibration level	IEC60068-2-6 5g
	IEC61000-4-5 DM:±6KV CM:±10KV <sup>[1]</sup>	IP Rate	IEC60529 IP67
	IEC61000-4-6 0.15~80MHz 10V/m	Anti-corrosion	ISO12944 C5 M
EN55015 CLASS C			
Wiring method	Lead wire		

### Photometric

Light source	LED	Source life	≥50000h
Color temp	Cold white:5700K Warm white:2700K	Beam angle	15°/60°
CRI	Cold white:Ra≥70 Warm white:Ra≥80		
Luminous efficacy	Cold white:140lm/W Warm white:115lm/W		

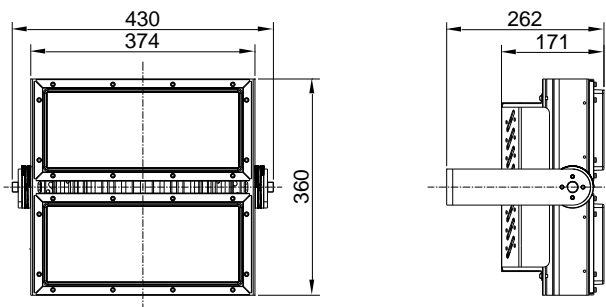
<sup>[1]</sup> This standard test meets the functional state B. It is normal for the lamp to flash at the moment of surge, and it can be automatically recovered.

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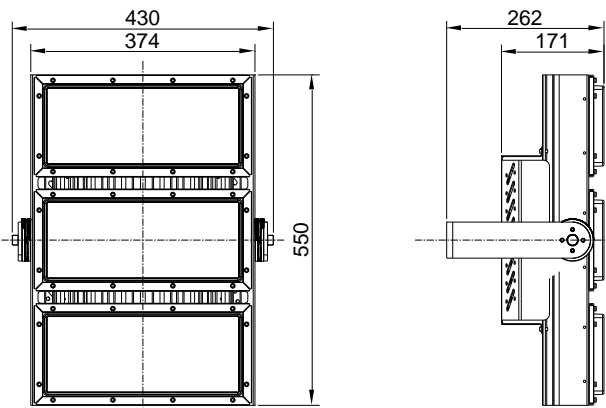


## Mounting dimensions

Unit:mm



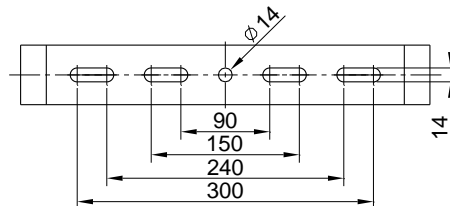
LF80-300W/400W



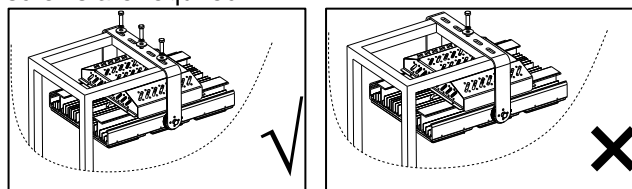
HL80-600W

### Installation and use method:

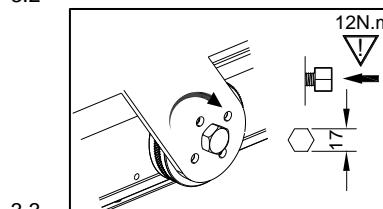
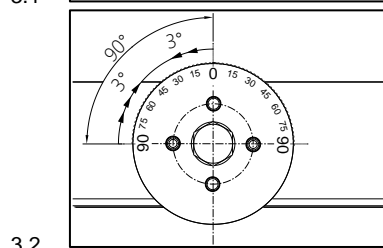
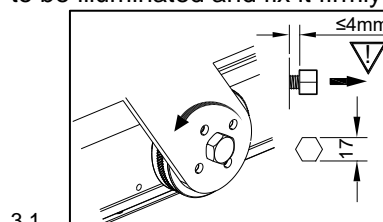
1. Drill holes on the intended installation surface. The lamp should be fixed to the installation surface with M12 bolts and anti-separation nuts. The installation surface should be flat and have sufficient mechanical strength.



2. The installation height is greater than 3 m, two or more screws are required.



3. Adjust the fixture to the angle and direction that needs to be illuminated and fix it firmly.

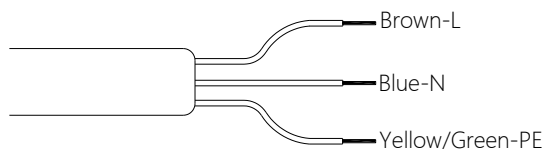


4. Fix the safety chain in a suitable place, and the fixing surface should have sufficient mechanical strength.

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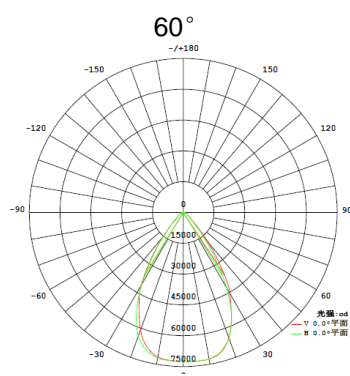
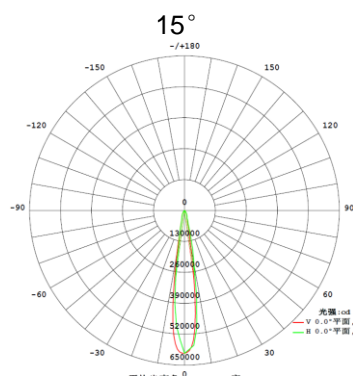
## Wiring diagram




### Wiring usage:

1. Non-professional electricians do not operate.
2. Make sure the circuit power switch is turned off before wiring.
3. The external power cord of the lamp must meet the three-core sheathed wire of at least 16AWG (1.3mm<sup>2</sup>).
4. Connect the power supply wire directly to the L, N, PE terminal or the external power cord of the lamp (need to pay attention to the corresponding polarity, and handle the waterproof and anti-electric shock at the connection).
5. For your safety, please make sure the light fixture is well grounded in the circuit.
6. The power cord can only be turned on after checking that the connection is correct.

## Lighting distribution curve



## Precautions

1. 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 the risk of corrosion and cracking.
2. Ensure that the circuit power switch is off before wiring, please connect to rated working voltage when using.
3. Lamps are not suitable to be covered by thermal insulation materials, maintain good ventilation.
4. Lamps are not suitable for direct installation on the surface of common combustible materials.
5. The shortest distance between the lamp and the object to be illuminated is 3 meters to avoid fire.
6. When using the lamp, do not look directly at the bright light source.
7. When the lamp is in use, the surface of the shell and lampshade has a certain temperature rise, which is a normal phenomenon.
8. Replacement and maintenance of lamps should first cut off the power supply, and should be carried out by professionals after the lamps are cooled.
9.  "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".
10. 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.
11. 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".
12. 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.
13. Please read the manual carefully before use, if you have any questions, please contact our company.

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## Selection table

HL80-①②③④⑤⑥⑦

①Voltage	②Power	③Color temp	④Beam angle	⑤Wire method	⑥Mounting
A 100-240VAC	300 300W 400 400W 600 600W	C 5700K W 2700K	N 15° W 60°	1 Lead wire 2m	Bracket (U type / SUS304/6mm/hole spacing90~150mm&240~300mm/ high 240mm)

## How to Order

Code	Model	Voltage	Power	Color temp	Beam angle	Wire method	Mounting
1000536_001	LF80-A300WN1A	100-240VAC	300W	2700K	15°	Lead wire 2m	Bracket (U type / SUS304/6mm/hole spacing90~150mm&240~300mm/ high 240mm)
1000536_002	LF80-A300CN1A	100-240VAC	300W	5700K	15°	Lead wire 2m	Bracket (U type / SUS304/6mm/hole spacing90~150mm&240~300mm/ high 240mm)
1000536_003	LF80-A300WW1A	100-240VAC	300W	2700K	60°	Lead wire 2m	Bracket (U type / SUS304/6mm/hole spacing90~150mm&240~300mm/ high 240mm)
1000536_004	LF80-A300CW1A	100-240VAC	300W	5700K	60°	Lead wire 2m	Bracket (U type / SUS304/6mm/hole spacing90~150mm&240~300mm/ high 240mm)
1000536_005	LF80-A400WN1A	100-240VAC	400W	2700K	15°	Lead wire 2m	Bracket (U type / SUS304/6mm/hole spacing90~150mm&240~300mm/ high 240mm)
1000536_006	LF80-A400CN1A	100-240VAC	400W	5700K	15°	Lead wire 2m	Bracket (U type / SUS304/6mm/hole spacing90~150mm&240~300mm/ high 240mm)
1000536_007	LF80-A400WW1A	100-240VAC	400W	2700K	60°	Lead wire 2m	Bracket (U type / SUS304/6mm/hole spacing90~150mm&240~300mm/ high 240mm)
1000536_008	LF80-A400CW1A	100-240VAC	400W	5700K	60°	Lead wire 2m	Bracket (U type / SUS304/6mm/hole spacing90~150mm&240~300mm/ high 240mm)
1000536_009	LF80-A600WN1A	100-240VAC	600W	2700K	15°	Lead wire 2m	Bracket (U type / SUS304/6mm/hole spacing90~150mm&240~300mm/ high 240mm)
1000536_010	LF80-A600CN1A	100-240VAC	600W	5700K	15°	Lead wire 2m	Bracket (U type / SUS304/6mm/hole spacing90~150mm&240~300mm/ high 240mm)
1000536_011	LF80-A600WW1A	100-240VAC	600W	2700K	60°	Lead wire 2m	Bracket (U type / SUS304/6mm/hole spacing90~150mm&240~300mm/ high 240mm)
1000536_012	LF80-A600CW1A	100-240VAC	600W	5700K	60°	Lead wire 2m	Bracket (U type / SUS304/6mm/hole spacing90~150mm&240~300mm/ high 240mm)

## Correct Disposal of this product



**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.**

Manufactory	Shanghai Nanhua Electronics Co., Ltd
Address	Building 9, No.1755 Wenbei Road, Jiading District, Shanghai

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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