

# Specification

## 180W LED Marine Flood Light



## Structures & Materials Reference

### High Purified 6063 Aluminum Housing

This aluminum is mostly used in heavy duty industry because it is better than aluminum alloy in *anti-corrosion and heat dissipation*. Therefore, never worry about the corrosive problem caused by the severe salt spray.

### Modular & Open Structure

In this structure, strong wind can freely travel through the light without any pressure imposed on light itself. As a result, the fixture *can resist 17th grade typhoon and category 3rd to 4th hurricane*.



### Bridgelux Chips

The top brand chips are expert in outdoor high power and high luminous efficiency lighting. Their chips are *more stable and brighter outside*.

### Polycarbonate Precise Lens

This lens mostly used for aviation filed *presents brilliant light transmitting*, making 97% lumen reach to the target area, compared to others 60% or 70%. Besides, it offers *unbeatable toughness* against impacts and vibration and *strong resistance to salt spray and chemical* environments.

### IP67 Waterproof Protection

*Gaps inside are all fully sealed against dust and water ingress* by tight silicon rubber, making these lights suitable for the harshest watery environments and ensuring an ultra long service life.

### Marine Grade Oxidation Treatment

Each part and component of the light conducted the rigorous oxidation treatment to ensure the light fixture not to get corrosion when exposed to watery, salty, chemical environments for more than 12 years.

### Dense 6063 Aluminum Heat Sinks

The product uses a military grade venting system that each chip will be equipped with around 30 pieces aluminum heat sinks to timely release heat to outside so that its temperature can *be kept on low temperature rage*.



### Marine 304/316 Stainless Steel

*Anti-corrosive* materials as Ring/ Bracket/Hardware  
*Vibration-proof*—steel bracket firmly grips the flood light to withstand harsh vibration and impact

### Reliable Waterproof Meanwell Driver

### Silicone Rubber Wires

It resists *-80 °C to 200 °C extreme temp.*

## Electric Light Source Parameters

ITEM NO	LS-FLN-180	Power	180W
Warranty	5 Years	Input Voltage	90-295VAC 50-60HZ
Power Factor (PF)	≥0.95	Power Efficiency	≥90%
Light Angle	25 ° 40 ° 60 ° 90 °	Color Temp	2700-3500K 5000-6500K 6500-7500K
Color Index(CRI)	80	LED Luminous Efficiency	160lm/W
Work Temperature	- 25° C ~ 60° C	Storage Temperature	- 40° C ~ 80° C
Working Humidity	10 % ~ 90 % RH	IP Rating	IP67
Life Span	≥80000 hours	Light Attenuation(80000h)	30%
Light Body Size (L*W*H)	392x246x75mm	Lamp Net Weight(KG)	5.3kg
Package Size (L*W*H)	475x330x180mm	Total Weight(KG)	6.5kg

## Main Features

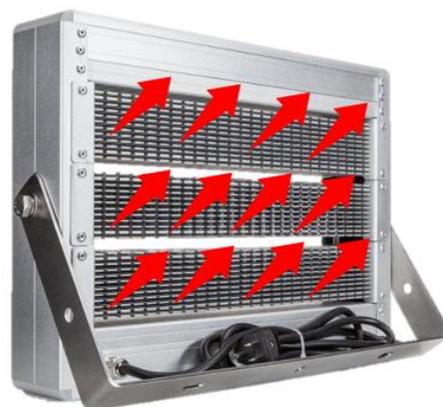
### 01 Super Bright With High Uniformity

Advanced optics ensure 95% amount of light reaches the area it is most needed. The beam patterns are designed to generate even illumination and avoid bright spots, dark patches or stray light rays that serve no useful purpose.



### 02 Excellent Heat Dissipation

The marine lights use a military grade venting system that each chip will be equipped with around 30 pieces aluminum heat sinks to timely release heat to outside so that its temperature can be kept on low temperature.



### 03 High Level Waterproof

IP67 waterproof rating with tightly sealed gaps treatment: Gaps and components inside each marine lamp are fully sealed against dust and water ingress by tight silicon rubber, making these lights suitable for the harshest watery environments. Each lamp will be sent to conduct 96 hours waterproof tests after production to guarantee 100% waterproof.



### 04 Marine Grade Anti-corrosion

High level anti-corrosion is achieved by high purified heavy duty 6063 aluminum with oxidize treatment, military grade material—304/316 stainless steel. Wires use silicon rubber materials which are excellent in anti-corrosion. Inside the light fixture, there is silicone gel to tightly seal the gaps and therefore no corrosive materials can damage inside components.



### 05 Multi-colors Optional

Pure and vivid colors are optional for marine led flood lights to create beautiful lighting scenes.



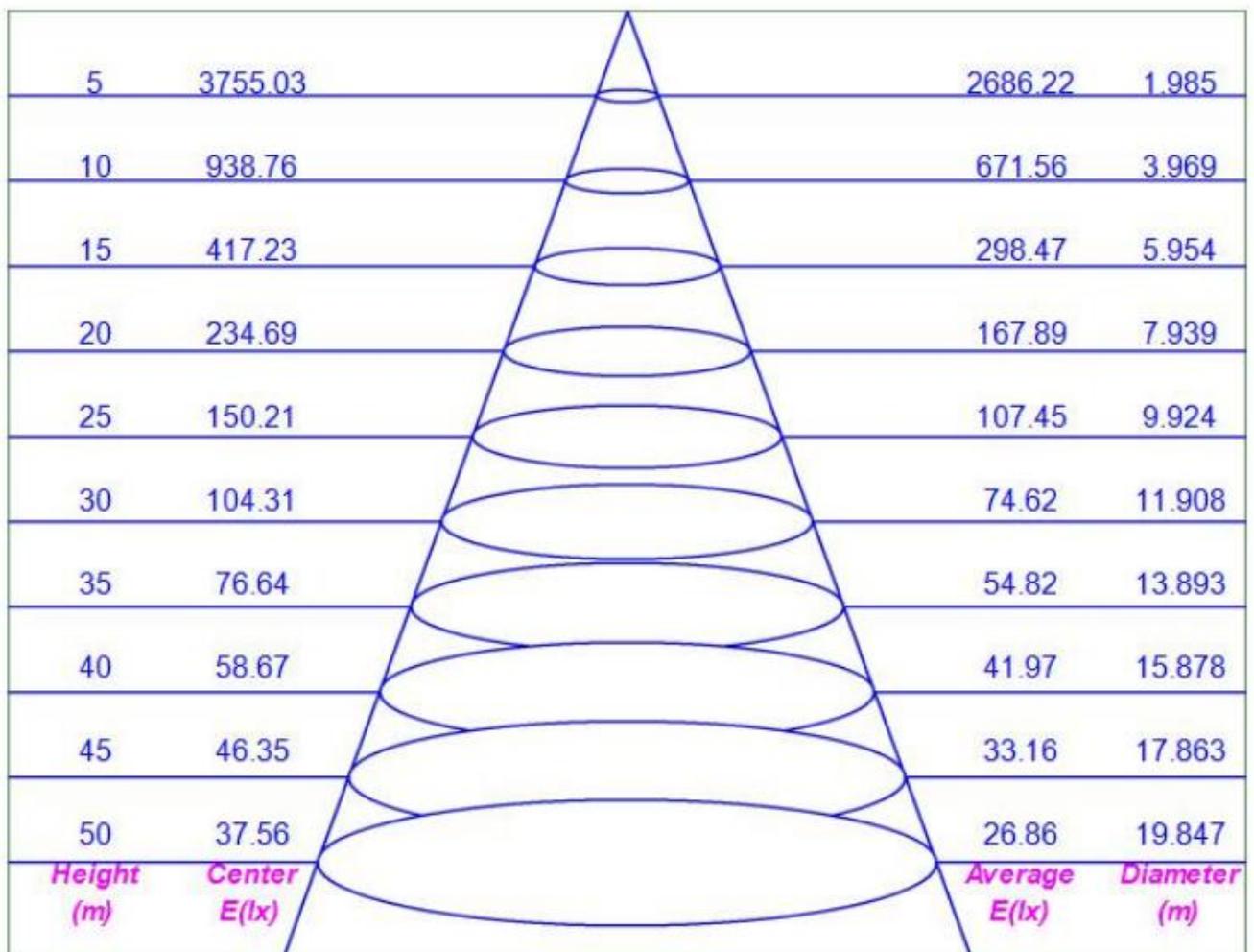
# IES Flood Report

Photometric Filename:LS-FLN-180-25de.iesz

## Illuminance-Distance Diagram

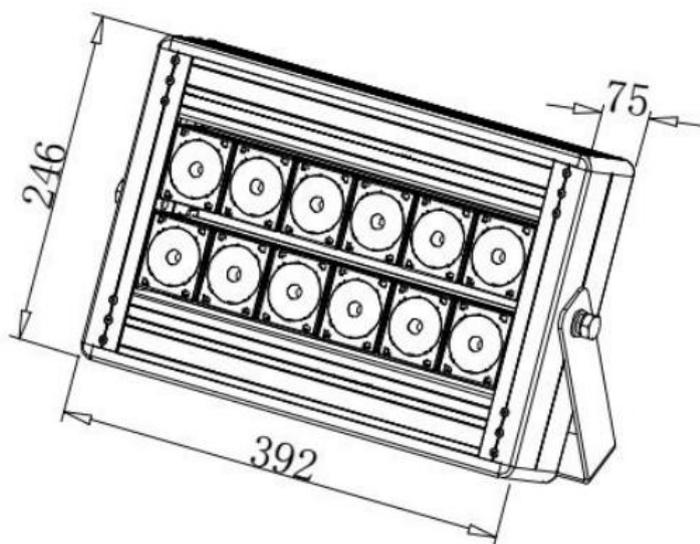
Lamp Name:	LS-FLN-180-25de	Color Temp:	5000-6000k
Lamp Name:	180w marine led light 25de	Color Index(CRI)	80
Light Source	Bridgelux	LED Luminous Efficiency	160lm / Watt

## Illuminance-Distance Curve



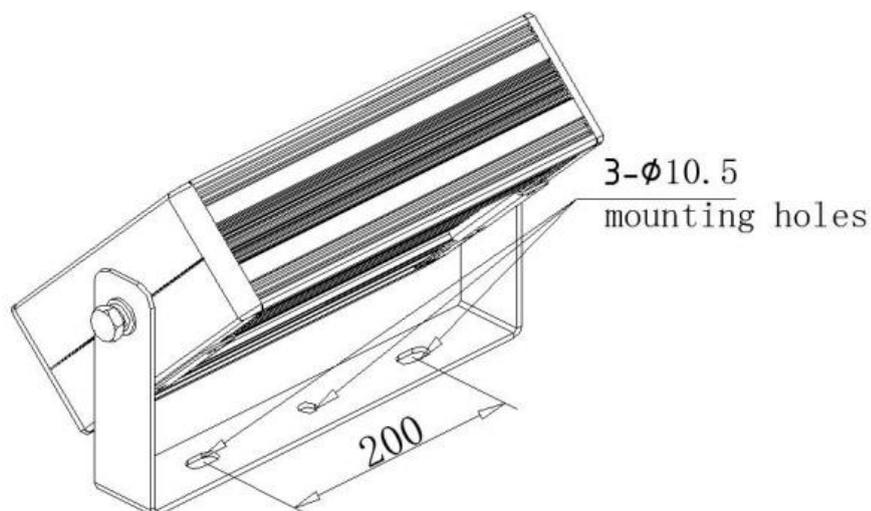
Beam Angle:25

**Dimension:** boundary dimension unit (mm)

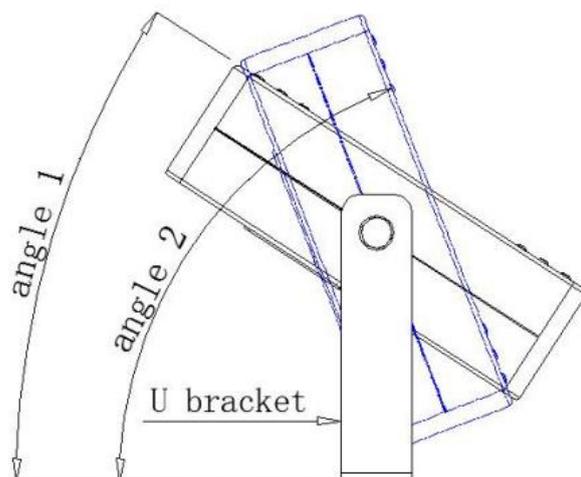


**Installation procedure:**

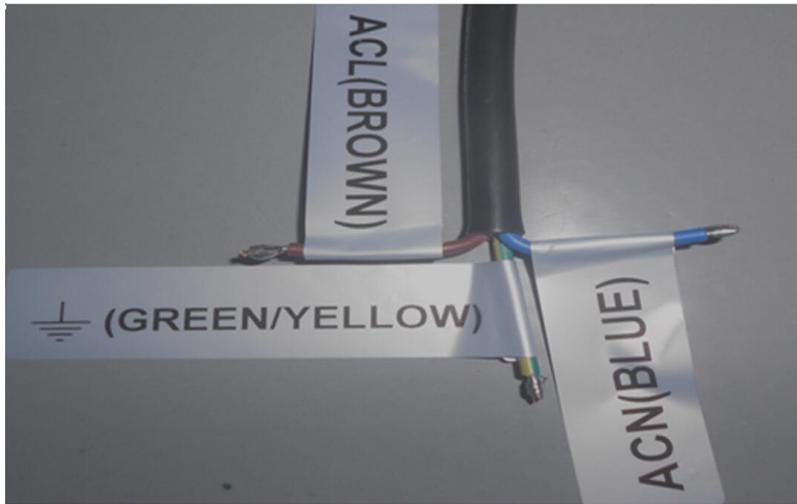
1. As shown the three holes to install the product on the user installation plane



2. According to user requirements adjust the angle of the U bracket and luminous surface then use wrench(17#) tighten the bolts and make sure the bracket is firmly connected with the luminaire body.



3. Connect the power cables as below

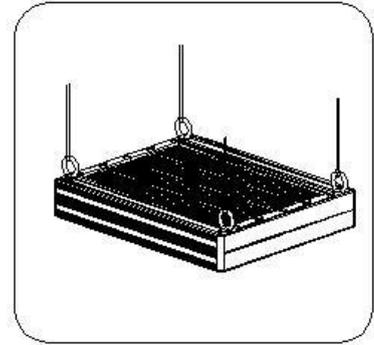
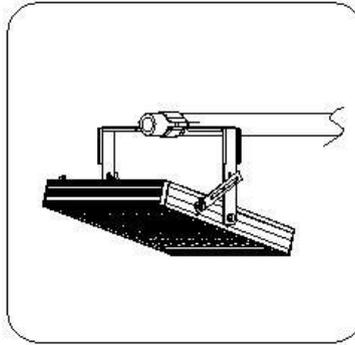
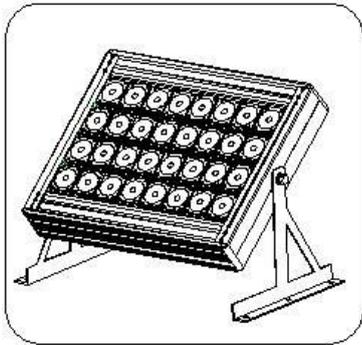


ACL: Connect the Brown input

ACN: Connect the Blue input

Ground Line: Connect the Green/Yellow input

4. The user can also choose other installations as below



1. Power Switch on, make sure light on.

**2. Other installation methods support: Hook, Pendent, Chain, etc.**

Remark:

1. Make sure power off when installing or changing spare parts;
2. Make sure local working voltage could match the lamp.