



Energy Saving by SUREALL



# Product Catalogue

**Industrial LED Lighting  
Use in Wet, Corrosive, Extreme Locations**



**SUREALL TECHNOLOGY LIMITED**



## Industrial Lighting

# SAVE YOUR ENERGY

For some, the idea of lighting products positively contribute to the climate change is a contradiction, we do not think so. The advanced led technology we apply for is the most environment-friendly and energy-saving lighting source in the world, compared with traditional HID lamp, led lamp can reduce at least 60% energy averagely to reach the globally recognized net-zero emissions in the long term.

SUREALL actively collaborate with you to select the best lighting solutions based on as much as energy saving and improve the energy usage efficiency for certain wattages, our experts balance the energy consumption sheet, identify the efficiency waste points and enhance the overall efficiency rate replying on the invested budget.

### Guide

SUREALL Industrial lighting provide professional lighting solutions for heavy industry, wet location, high corrosion, dusty environment ranging from IP65 to IP66, IP67, IP68 rated, from NEMA 4 to 4X, 6, 6P. New led technology application produce high lumens output for garage, warehouse, workshop, factory, stadium, sport court, bridge, tunnel, subway, street, highway, paint booth, airport, dock.

### Industrial lighting consist of:

**Industrial high bay lighting**

**Industrial flood light**

**Street light**

**Linear fluorescent light**

**Emergency & portable light**

**Aircraft warning light.**



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# Diversified Lighting Solutions for Wet, Corrosive, Extreme Environment

## What are the different types of industrial lights?

### Industrial High Bay Lighting

Industrial high bay lighting is the most popular lighting fixtures among all industrial lighting types. No matter manufacturing plant, warehouse, assembly lines or workshop, a tall ceiling will be designed to accommodate heavy processing machines, loading machines, cargo rack and ensure the necessary space for operation, high bay lighting can be the obvious suitable choice to install in this tall ceiling to distribute proper lumen output to workbench or areas.

### Industrial Flood Light

Industrial flood light is born for increased lighting intensity with both functions of spotlight and flood light when with narrow or wide beam angle to be utilized in large outdoor areas, opening areas, outdoor processing plant, pipe system, tower plants, outdoor warehouse, dock areas, loading and unloading areas. It can also be used in stadium, garage, gym, sport court, parking lots, airport, high mast system, bridge and statue for night-time lighting purpose.

### Street Light

Industrial street light is designed to illuminate the internal road for industrial zone, dock or yard, passing aisles, exit and access for outdoor warehouse or processing plants. Street light is also crucial in traffic management for roads and highway, bridge of cities and countries to ease the pressure of traffic jam and solar street light can be suitable for anywhere electricity cost higher price through state grid or is not convenient to reach.



### Linear Fluorescent Light

Linear fluorescent light is shaped like a long linear tube as the most conventional lighting application for decades among all kinds of lighting. It has numerous applications specially for industrial conditions such as garage, warehouse, processing plant, workshop, machinery cabin rooms, control rooms, labs, parking lots. Today's fluorescent light can be converted from traditional fluorescent lamp tube into high lumen efficiency led tube with labor-free instructions.

### Emergency & Portable Light

Emergency light is an essential lighting group for the normal operation for a facility when installed at the exit, stairs, ladders and aisles. Portable light is able for temporary lighting purpose for machine maintenance, quality control, outdoor working. Back-up battery for lasting 3 hours can maintain the emergency lighting requests when power is failed or difficult to connect.

### Aircraft Warning Light

Aircraft warning light is one of the warning system to be installed at the high industrial tower, tall manufacturing chimney, processing machines and tall buildings to remind the aircrafts to the distance to obstruction to make sure the safety. Different height request various light intensity of aircraft warning light, long lifetime led lamp minimize the operating cost.

# Diversified Lighting Solutions for Wet, Corrosive, Extreme Environment



## 1. What is factory lighting? What type of lights are used in factories?

Factory lighting is to mount industrial high bay lights and industrial floodlights to a sufficient height so that uniform lighting distribution of over several workshops is obtained in the factory. Industrial high bay lighting are used for most factory cases because of flexible mounting accessories and IP66 rated weatherproof features for complicated and extreme factory environment, linear fluorescent light can be applied for lighting local workbench and emergency light can be used for lighting the exit, access.

## 2. Which type of lighting system is used for industrial lighting?

Consider led. Other high pressure sodium, metal halide lamp have been used for industrial lighting for decades traditionally in the past, as led consume much less energy, produce full spectrum light, work for longer lifespan compared with hid lamp, now led trend to replace all other kinds of lamps to be used for industrial lighting.

## 3. What lighting is used in a warehouse?

Industrial led high bay lighting and industrial led linear fluorescent light produce efficient light from the high ceiling to ground in a indoor warehouse where store common or liquid cargos. Industrial floodlight and street lights are normally used for large space in an outdoor warehouse. Emergency light and portable lighting are used at exit, access, door for both indoor and outdoor warehouse.

## 4. How many types of light used in a plant or an industry?

As for lamp type, there are normally four types lamps incandescent, fluorescent, hid, led to be used as industrial lighting in a plant or an industry, hid and led are most common lamp type and led is the more durable widely used. As for light fixture type, depend on the application place, there are seven types in an industrial plant, like industrial high bay light, industrial floodlight, street light, linear fluorescent lights, emergency lights, portable lighting, aircraft warning lights.

## 5. What does wet rated lighting mean? Should I get waterproof or non-waterproof LED lights?

Wet rated lighting means lighting fixture can be used in wet location such as outdoor where rain or snow encounter, indoor where liquid flows. If the application environment is humid, damp or wet, you should use waterproof LED lights. SUREALL industrial lighting are IP66 rated to protect the lighting fixture from water entering and maintain the normal working for electrical parts inside the fixtures, besides, the housing is anti-rust to avoid the damage from moisture to ensure the integrated operation.

## 6. What color light is best for a workshop?

4500–6000K light color temperature is best for a workshop. Choosing a proper color temperature for light is important for used environments, particularly in large industrial places such as workshop, factory or warehouse where bright white 4500–6000K are crucial for showing the true color of products, maintaining good health and safety practices and keeping staff at maximum efficiency.

## 7. What temperature can LED lights withstand?

Even through led itself can withstand 185° F (85° C) or more, when led are installed inside an enclosed led light fixture with good heat sink structure to reduce the temperature rise during working, led light fixture can withstand  $-40^{\circ}\text{C}(-40^{\circ}\text{F})$  –  $+55^{\circ}\text{C}(131^{\circ}\text{F})$  for normal environment temperature and climate. Especially, SUREALL IHB-T series high temperature type led lights can withstand  $-40^{\circ}\text{C}(-40^{\circ}\text{F})$  –  $+70^{\circ}\text{C}(158^{\circ}\text{F})$  for high temperature climate areas and high heat workshop.

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### 2. High Temperature LED Light IHB-T Series (10-600W)

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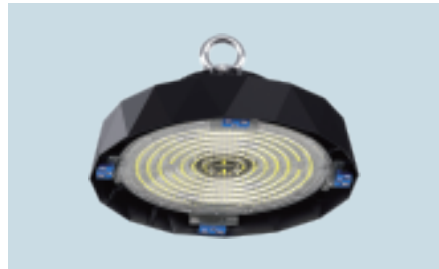
### 3. UFO High Bay LED Light IHB-E Series (80-200W)

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### 4. UFO High Bay LED Light IHB-B Series (80-240W)

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### 5. UFO High Bay LED Light IHB-W Series (80-300W)

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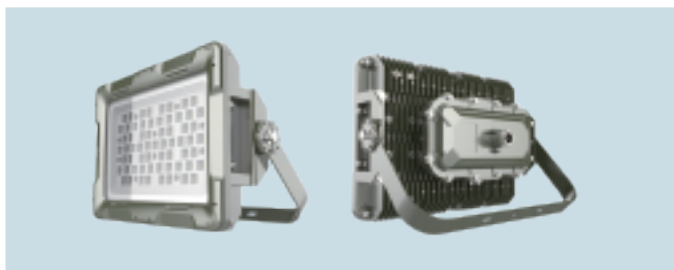


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## Part 2- Industrial LED Floodlight

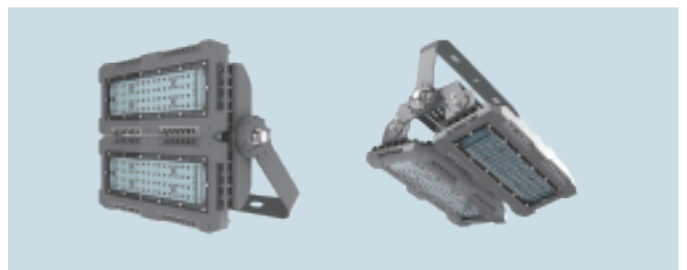
### 6. Industrial LED Flood Lights PFM-A Series (30-560W)

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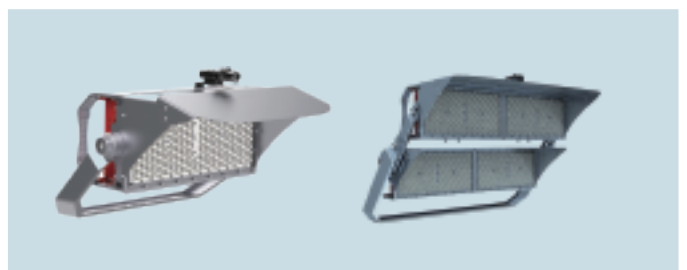
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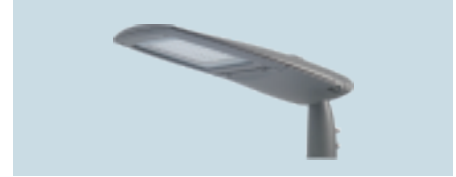
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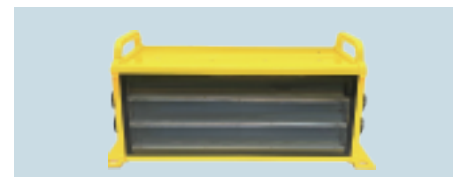
23. Medium Intensity Aircraft Warning Light  
AWL-M Series

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24. High Intensity Aircraft Warning Light  
AWL-H Series

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## IHB-H Series Industrial High Bay Led Lighting

LED 10-240W	1,400-33,600lm
140lm/W Efficiency	100-277V / 347-480V
Type 4X,IP66	-40°C ~ +55°C
Heavy Industry	Wet & Corrosive Location



Model	Lumens	Wattage	Lumens per Watt	Equivalent HID Luminaire
IHB-H-10W	1400	10W	140	70W
IHB-H-30W	4200	30W	140	70-100W
IHB-H-50W	7000	50W	140	100-150W
IHB-H-60W	8400	60W	140	150-175W
IHB-H-80W	11200	80W	140	175-250W
IHB-H-100W	14000	100W	140	320-400W
IHB-H-120W	16800	120W	140	400W
IHB-H-150W	21000	150W	140	400-600W
IHB-H-200W	28000	200W	140	600-750W
IHB-H-240W	33600	240W	140	750-1000W



### Applications

- Usage by application: Garage, basement, parking lot, warehouse, loading dock, gym, indoor basket court, shop, tunnel, ship, factory, indoor tennis court, workstation, in door sport court, carport, workshop, coastal area, power plant, seaport, paint booth, substation, prison, cold storage area, marine area.
- Usage by physical places: Industrial high bay lighting can be used in high or middle ceiling areas, high and low temperature areas, furious and rainy space, steel structure areas, wall areas, stanchion areas, guardrail areas and other areas with or without support frame or plates, where corrosive, wet, dusty, hot and cold condition exists.
- For areas with mounting heights of 13-40ft (4-12m).

### Features

As a classic heavy industrial high bay led lighting or jelly jar light, IHB-H series industrial high bay led lights are designed with a bay shape housing and led lamp source providing long life and high lumen performance in area lighting where corrosive, wet, dusty, hot and cold condition exists. Features with varied flexible mounting kit, it can be used as led warehouse lighting, industrial warehouse lighting, high bay led shop lights, industrial shop lights, industrial led shop lights and led factory light.

- > Separate chamber for led driver for convenient connection and maintenance
- > Circular fins heat sink structure to remove heat to reduce the temperature rise
- > Vertical jelly jar displacement structure to emit over-all well-distributed light
- > Matrix led lamp structure to improve the lighting waste from different directions

## Standard Materials

**Housing:** Die cast aluminum with anti-corrosion powder coat, grey

**Lens:** Heat-resistant and impact-resistant tempered glass

**Gaskets:** Silicone



## Technical Datasheet

Rated Voltage	100–277V AC 50/60Hz 347–480V AC 50/60Hz									
Wattage (W)	10W	30W	50W	60W	80W	100W	120W	150W	200W	240W
Lumens (LM)	1200	4200	7000	8400	11200	14000	16800	21000	28000	33600
Color Temperature	5000K/4000K/3000K									
IP Grade	Wet Locations, Type 4X, IP66									
Ambient Temperature	–40°C~ +55°C / –40° F ~ +131° F									
Cable Entry	NPT 3/4" or M25X1.5 (adaptor for M20x1.5, NPT 1" , NPT1 1/2" )									
Terminals	Terminal blocks ≤ 2.5mm <sup>2</sup> , cable diameter 10–14mm									
Mounting Type	Stanchion Flange / Stanchion Fence / Pendant / Ceiling / Wall Pole / Wall Bracket / Trunnion									
Beam Angle	120° / 150° / 90° / 60°									

## Catalogue Numbering System

**IHB-H-**

**30**

**N**

**C**

**W**

**1**

**V1**

Lamp

Cable Entry

Mounting Type

Color Temperature

Beam Angle

Voltage

10–10W

30–30W

50–50W

60–60W

80–80W

100–100W

120–120W

150–150W

200–200W

240–240W

N–NPT 3/4"

M–M25x1.5

S1–Stanchion Flange

S2–Stanchion Fence

P–Pendant

C–Ceiling

W1–Wall Pole

W2–Wall Bracket

T–Trunnion

C–Cool(5000K)

N–Nature(4000K)

W–Warm(3000K)

1–120°

2–150°

3–90°

4–60°

V1:100–277V AC

V2:347–480V AC

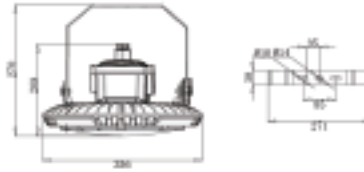


# Mounting Options & Dimensions (mm/inch)

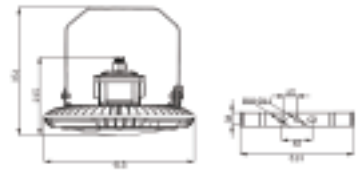
IHB-H 10-130W



IHB-H 100-150W



IHB-H 160-240W



S1: Stanchion Flange Type



S2: Stanchion Fence Type



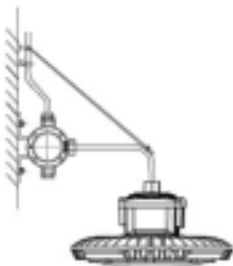
P: Pendant Type



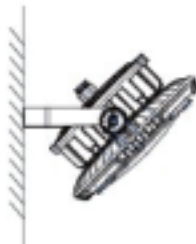
C: Ceiling Type



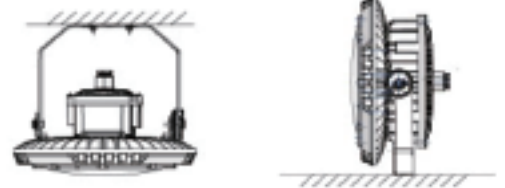
W1: Wall Pole Type



W2: Wall Bracket Type



T: Trunnion Type



## IHB-T Series High Temperature LED Light

LED 10-600W	1,400-84,000lm
140-150lm/W Efficiency	100-277V / 347-480V
Type 4X,IP66	-40 °C ~ +70 °C
Heavy Industry	Wet & Corrosive Location



Model	Lumens	Wattage	Lumens per Watt	Equivalent HID Luminaire
IHB-T-10W	1400	10W	140	70W
IHB-T-30W	4200	30W	140	70-100W
IHB-T-50W	7000	50W	140	100-150W
IHB-T-100W	14000	100W	140	320-400W
IHB-T-150W	21000	150W	140	400-600W
IHB-T-200W	28000	200W	140	600-750W
IHB-T-300W	42000	300W	140	750-1000W
IHB-T-400W	56000	400W	140	—
IHB-T-600W	84000	600W	140	—



### Applications

- Can be suitable for: Machinery production workshop, sea port operation areas, metal processing, mining, outdoor warehouse plants and other extreme environment.
- Machinery production lines, high heat workshop, process center in high temperature place and other rugged environment.
- Even though led itself can withstand 185° F (85° C) or more, when led are installed inside a enclosed led light fixture with good heat sink structure to reduce the temperature rise during working, led light fixture can withstand -40°C(-40 °F) – +55°C(131 °F) for normal environment temperature and climate. Especially, SUREALL IHB-T series high temperature type led lights can withstand -40°C(-40 °F) – +70°C(158 °F) for high temperature climate areas and high heat workshop.
- For areas with mounting heights of 13-65ft (4-20m). The space is normally very wide to accommodate heavy machinery, and normally very wide to ensure the air flow to cool down the processing areas.

### Features

Born for usage of high temperature up to 70°C/158 °F, high temperature light IHB-T series is designed with a heat resistance metal housing and led lamp source to be used as high heat resistance led lights, high temperature resistant light fittings, high temperature led lights, high temperature high bay led lighting, Widely application such as steel mill, burning workshop and extremely high temperature climate place like middle east, Africa.

- > Ultra high vertical fins heat sink structure to increase the air flows and heat exchange
- > Multi-modular housing combination structure for high watts and high lumens led
- > Heat resistance design suitable for 70°C/158 °F high temperature environment

## Standard Materials

**Housing:** Die cast aluminum with anti-corrosion powder coat, black

**Lens:** Heat-resistant and impact-resistant tempered glass

**Gaskets:** Silicone



## Technical Datasheet

Rated Voltage	120–277V AC 50/60Hz 347–480V AC 50/60Hz								
Wattage (W)	10W	30W	50W	100W	150W	200W	300W	400W	600W
Lumens (LM)	1400	4200	7000	14000	21000	28000	42000	56000	84000
Color Temperature	5000K/4000K/3000K								
IP Grade	High Temperature, Type 4X, IP66								
Ambient Temperature	–40°C ~ +70°C / –40° F ~ +158° F								
Cable Entry	M25X1.5 (adaptor for M20x1.5, NPT 1" , NPT1 1/2" )								
Terminals	Terminal blocks ≤ 2.5mm², cable diameter 10–14mm								
Mounting Type	Bracket / Hook								
Beam Angle	120° / 90° / 60°								

## Catalogue Numbering System

**IHB-T-**

**100**



**Lamp**

10–10W
30–30W
50–50W
100–100W
150–150W
200–200W
300–300W
400–400W
600–600W

**B**



**Mounting Type**

B–Bracket
H–Hook

**W**



**Color Temperature**

C–Cool(5000K)
N–Nature(4000K)
W–Warm(3000K)

**1**



**Beam Angle**

1–120°
2–90°
3–60°

**V1**



**Voltage**

V1:120–277V AC
V2:347–480V AC

## IHB-E Series UFO High Bay LED Light

LED 80-200W	11,200-28,000lm
140-160lm/W Efficiency	100-277V / 200-480V
Type 4X,IP66	-30 °C ~ +40 °C
Heavy Industry	Wet & Corrosive Location



Model	Lumens	Wattage	Lumens per Watt	Equivalent HID Luminaire
IHB-E-80W	11200	80W	140	175-250W
IHB-E-100W	14000	100W	140	320-400W
IHB-E-120W	16800	120W	140	400W
IHB-E-150W	21000	150W	140	400-600W
IHB-E-200W	28000	200W	140	600-750W



### Applications

- Can be suitable for : Middle ceiling height workshop, factory, warehouse in wet rated, weather proof condition.
- Machinery area, assembly lines, sea port loading and unloading dock where wet, dusty, damp condition exist.
- Food production, wastewater processing, marine, depot where wet, corrosive condition exist.
- UFO high bay light looks like a UFO round shape features a flat integrated aluminum housing to use in high ceiling area, UFO high bay is suitable for ceilings ranging from 20 feet to approximately 45 feet. UFO low bay lights, on the other hand, are used for ceilings 20 feet and under. It is an economic lighting solution for your vast space and areas with durable and stable features.

### Features

Constructed with compact, light-weight and thin housing with high lumen output led lamp, UFO high bay led light IHB-E series can produce lumens range from 11200lm up to 28000lm. It is widely worked as UFO led, led UFO lights, UFO led high bay light, UFO led lights for garage lighting, led garage lights, led warehouse lighting, led workshop lights, industrial warehouse lighting, area lighting, basement light fixture, led canopy light, high bay warehouse lighting, industrial led shop lights.

- > Flat classic aesthetical UFO shape structure for high ceilings areas
- > Light-weight feature, easy to hold for convenient and quick installation

### Standard Materials

**Housing:** Die cast aluminum with anti-corrosion powder coat, black

**Lens:** Heat-resistant and impact-resistant tempered glass

**Gaskets:** Silicone



# Technical Datasheet

Rated Voltage	100–277V AC 50/60Hz 200–480V AC 50/60Hz				
Wattage (W)	80W	100W	120W	150W	200W
Lumens (LM)	11200	14000	16800	21000	28000
Color Temperature	5000K/4000K/3000K				
IP Grade	Wet Locations, Type 4X, IP66				
Ambient Temperature	–30°C~ +40°C / –22° F ~ +104° F				
Cable Entry	M25X1.5				
Terminals	Terminal blocks ≤ 2.5mm <sup>2</sup> , cable diameter 10–14mm				
Mounting Type	Bracket / Hook				
Beam Angle	120° / 90° / 60°				

## Catalogue Numbering System

**IHB-E-**

**100**

**C**

**W**

**1**

**V1**

Lamp

80–80W
100–100W
120–120W
150–150W
200–200W

Mounting Type

B–Bracket
H–Hook

Color Temperature

C–Cool(5000K)
N–Nature(4000K)
W–Warm(3000K)

Beam Angle

1–120°
2–90°
3–60°

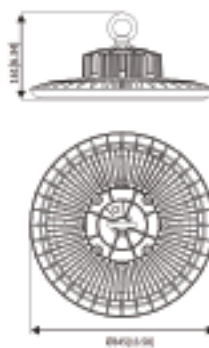
Voltage

V1:100–277V AC
V2:200–480V AC

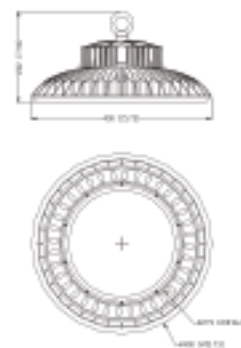
## Mounting Options & Dimensions (mm/inch)



IHB-E 80–100W

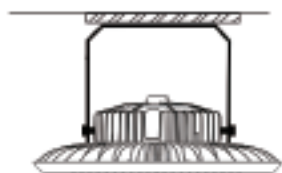


IHB-E 120–150W

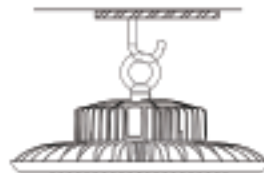


IHB-E 150–200W

Bracket Type

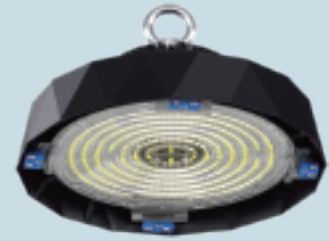


H: Hook Type



## IHB-B Series UFO High Bay LED Light

LED 80-240W	11,200-33,600lm
140-160lm/W Efficiency	100-277V / 120-347V
Type 4X,IP66	-40 °C ~ +55 °C
Heavy Industry	Wet & Corrosive Location



Model	Lumens	Wattage	Lumens per Watt	Equivalent HID Luminaire
IHB-B-80W	11200	80W	140	175-250W
IHB-B-100W	14000	100W	140	320-400W
IHB-B-120W	16800	120W	140	400W
IHB-B-150W	21000	150W	140	400-600W
IHB-B-180W	25200	180W	140	600W
IHB-B-200W	28000	200W	140	600-750W
IHB-B-240W	33600	240W	140	1000W



### Applications

- Can be suitable for: Middle ceiling height workshop, factory, warehouse in wet rated, weather proof condition. Machinery area, assembly lines, sea port loading and unloading dock where wet, dusty, damp condition exist. Food production, wastewater processing, marine, depot where wet, corrosive condition exist. Indoor and outdoor garage, heavy industrial workshop, machinery processing plants where weather proof products needs.
- UFO high bay light looks like a UFO round shape features a flat integrated aluminum housing to use in high ceiling area, UFO high bay is suitable for ceilings ranging from 20 feet to approximately 45 feet. UFO low bay lights, on the other hand, are used for ceilings 20 feet and under. It is an economic lighting solution for your vast space and areas with durable and stable features.

### Features

Available special adjustable structure for beam angle, designed with compact UFO shape, UFO high bay led light IHB-B series make it possible for you to adapt the suitable beam angle in your usage areas. It is widely worked as UFO light, led UFO lights, UFO led lights, UFO high bay light, high bay led shop lights, marine grade lighting, warehouse light fixtures, warehouse high bay for garage lighting layout, jobsite lights, dock lighting ideas, carport lighting ideas.

- > Traditional UFO shape ease the pendant mounting procedures
- > Adjustable beam angle for optional spotlight and flood light functions
- > Rhombus artistic outline design for tiny and clean workshop and factory

### Standard Materials

**Housing:** Die cast aluminum with anti-corrosion powder coat, black

**Lens:** Heat-resistant and impact-resistant tempered glass

**Gaskets:** Silicone



## Technical Datasheet

Rated Voltage	120–277V AC 50/60Hz 120–347V AC 50/60Hz						
Wattage (W)	80W	100W	120W	150W	180W	200W	240W
Lumens (LM)	11200	14000	16800	21000	25200	28000	33600
Color Temperature	5000K/4000K/3000K						
IP Grade	Wet Locations, Type 4X, IP66						
Ambient Temperature	–40°C ~ +55°C / –40° F ~ +131° F						
Cable Entry	M25X1.5						
Terminals	Terminal blocks ≤ 2.5mm <sup>2</sup> , cable diameter 10–14mm						
Mounting Type	Bracket / Hook						
Beam Angle	120° / 90° / 60°						

## Catalogue Numbering System

**IHB-B-**

**80**

Lamp

80–80W	100–100W
120–120W	150–150W
180–180W	200–200W
240–240W	

**C**

Mounting Type

B–Bracket
H–Hook

**W**

Color Temperature

C–Cool(5000K)
N–Nature(4000K)
W–Warm(3000K)

**1**

Beam Angle

1–120°
2–90°
3–60°

**V1**

Voltage

V1:120–277V AC
V2:120–347V AC

## Mounting Options & Dimensions (mm/inch)

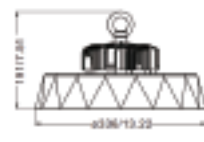
IHB-B 80–100W



IHB-B 120–180W



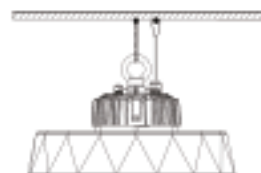
IHB-B 200–240W



B: Bracket Type



H: Hook Type



## IHB-W Series UFO High Bay LED Light

LED 80-300W	11,200-42,000lm
140-160lm/W Efficiency	100-277V / 120-347V
Type 4X,IP66	-40 °C ~ +55 °C
Heavy Industry	Wet & Corrosive Location



Model	Lumens	Wattage	Lumens per Watt	Equivalent HID Luminaire
IHB-W-80W	11200	80W	140	175-250W
IHB-W-100W	14000	100W	140	320-400W
IHB-W-120W	16800	120W	140	400W
IHB-W-150W	21000	150W	140	400-600W
IHB-W-200W	28000	200W	140	600-750W
IHB-W-240W	33600	240W	140	1000W
IHB-W-300W	42000	300W	140	—



### Applications

- Can be suitable for: Middle ceiling height workshop, factory, warehouse in wet rated, weather proof condition. Machinery area, assembly lines, sea port loading and unloading dock where wet, dusty, damp condition exist. Food production, wastewater processing, marine, depot where wet, corrosive condition exist. Indoor and outdoor garage, heavy industrial workshop, machinery processing plants where weather proof products needs. Metal processing, mining, power generation, outdoor warehouse plants and other harsh environment.
- For areas with mounting heights of 20-45ft (6-14m).

### Features

Through adjusting the watts up to 300W and color temperature, UFO high bay led light IHB-W series can be suitable for some areas requesting precise lumens and lighting distribution layout and frequent on-and-off illumination. It is widely used as high bay lighting, basement lighting, led UFO lights, led warehouse lighting, led garage light fixtures, UFO led high bay light, led dock lights, led low bay lights, led sport lighting, high bay led shop lights.

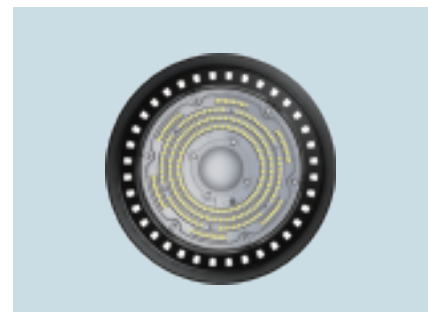
- > Black UFO shape structure for well-balanced lighting distribution
- > Adjustable watts for low and high lumen for different brightness for varied usages
- > Equipped with hook for hook mounted environment with simple installation steps.

### Standard Materials

**Housing:** Die cast aluminum with anti-corrosion powder coat, black

**Lens:** Heat-resistant and impact-resistant tempered glass

**Gaskets:** Silicone





# Technical Datasheet

Rated Voltage	120–277V AC 50/60Hz 120–347V AC 50/60Hz						
Wattage (W)	80W	10W	120W	150W	200W	240W	300W
Lumens (LM)	11200	1400	16800	21000	28000	33600	42000
Color Temperature	5000K/4000K/3000K						
IP Grade	Wet Locations, Type 4X, IP66						
Ambient Temperature	–40°C ~ +55°C / –40° F ~ +131° F						
Cable Entry	M25X1.5						
Terminals	Terminal blocks ≤ 2.5mm <sup>2</sup> , cable diameter 10–14mm						
Mounting Type	Pendant Type 1 /Pendant Type 2 / Hook						
Beam Angle	120° / 90° / 60°						

## Catalogue Numbering System

**IHB-W-**

**80**

**C**

**W**

**1**

**V1**

Lamp

Mounting Type

Color Temperature

Beam Angle

Voltage

80–80W	100–100W
120–120W	150–150W
200–200W	240–240W
300–300W	

P1–Pendant Type 1
P2–Pendant Type 2
H–Hook

C–Cool(5000K)
N–Nature(4000K)
W–Warm(3000K)

1–120°
2–90°
3–60°

V1:120–277V AC
V2:120–347V AC

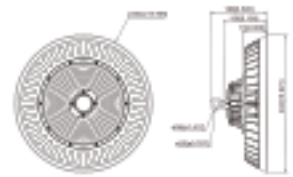
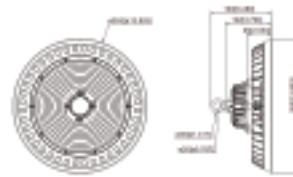
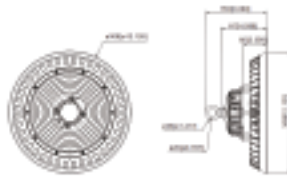
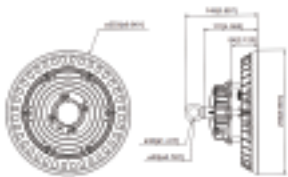
## Mounting Options & Dimensions (mm/inch)

IHB-W 80–100W

IHB-W 120–150W

IHB-W 200W

IHB-W 240–300W



P1: Pendant 1 Type



P2: Pendant 2 Type



H: Hook Type



## PFM-A Series Industrial Flood Lights

LED 30-560W	4,200-78,400lm
140lm/W Efficiency	100-277V / 347-480V
Type 4X,IP66	-40 °C ~ +55 °C
Heavy Industry	Wet & Corrosive Location



Model	Lumens	Wattage	Lumens per Watt	Equivalent HID Luminaire
PFM-A-30W	4200	30W	140	70-100W
PFM-A-50W	7000	50W	140	175-250W
PFM-A-60W	8400	60W	140	250-320W
PFM-A-80W	11200	80W	140	320-400W
PFM-A-100W	14000	100W	140	320-400W
PFM-A-120W	16800	120W	140	400W
PFM-A-150W	21000	150W	140	400W-600W
PFM-A-200W	28000	200W	140	750W
PFM-A-240W	33600	240W	140	1000W
PFM-A-300W	42000	300W	140	-
PFM-A-400W	56000	400W	140	-
PFM-A-560W	78400	560W	140	-



### Applications

- Usage by application: Loading dock, warehouse, gym, factory, workshop, seaport, parking lot, high mast, square, statue, venue, bridge, monument, museum, airport, carport, garage, basement and marine.
- Usage by physical places: Industrial flood lights can be on the ground or steel bracket, we, steel structure, wet locations, wall areas, high mast bracket, off-court areas and other areas with or without based frame or plates, where corrosive, wet, dusty condition exists.

### Features

As a traditional industrial flood lights for big opening space, PFM-A series industrial flood lights is made of die-cast aluminum alloy with powder coated surface, led lumen ranges from 4,200 to 78,400 lumen, the industrial led flood lights provide a reliable, durable illumination solution for heavy industry and where corrosive, wet, dusty condition exist. It can be worked as industrial spotlight, waterproof led flood lights, industrial flood light outdoor, spotlights industrial.

- > Die cast large area heat dissipation structure to limit the temperature increasing
- > Adjustable mounted angle with bracket for horizontal installation
- > Assembly housing for two chambers to be used as higher watts floodlight
- > High strength aluminum alloy housing to resist water, mechanical impact, corrosion

### Standard Materials

**Housing:** Die cast aluminum with anti-corrosion powder coat, black

**Lens:** Heat-resistant and impact-resistant tempered glass

**Gaskets:** Silicone



# Technical Datasheet

Rated Voltage	100–277V AC 50/60Hz 200–480V AC 50/60Hz					
Wattage (W)	30W	50W	60W	80W	100W	120W
Lumens (LM)	4200	7000	8400	11200	14000	16800
Wattage (W)	150W	200W	240W	300W	400W	560W
Lumens (LM)	21000	28000	33600	42000	56000	78400
Color Temperature	5000K/4000K/3000K					
IP Grade	Wet Locations, Type 4X, IP66					
Ambient Temperature	–40°C~ +55°C / –40° F ~ +131° F					
Cable Entry	NPT 3/4" or M25X1.5 (adaptor for M20x1.5, NPT 1" , NPT1 1/2" )					
Terminals	Terminal blocks ≤ 2.5mm <sup>2</sup> , cable diameter 10–14mm					
Mounting Type	Bracket (Possible wall, ceiling, and block mounting with adjustable angle)					
Beam Angle	120° / 60° / 45° / 30°					

## Catalogue Numbering System

<b>PFM-A-</b>	<b>80</b>	<b>N</b>	<b>C</b>	<b>W</b>	<b>1</b>	<b>V1</b>																									
	Lamp	Cable Entry	Mounting Type	Color Temperature	Beam Angle	Voltage																									
	<table border="1"> <tr><td>30–30W</td><td>50–50W</td></tr> <tr><td>60–60W</td><td>80–80W</td></tr> <tr><td>100–100W</td><td>120–120W</td></tr> <tr><td>150–150W</td><td>200–200W</td></tr> <tr><td>240–240W</td><td>300–300W</td></tr> <tr><td>400–400W</td><td>560–560W</td></tr> </table>	30–30W	50–50W	60–60W	80–80W	100–100W	120–120W	150–150W	200–200W	240–240W	300–300W	400–400W	560–560W	<table border="1"> <tr><td>N–NPT 3/4"</td></tr> <tr><td>M–M25x1.5</td></tr> </table>	N–NPT 3/4"	M–M25x1.5	<table border="1"> <tr><td>C–Ceiling Bracket</td></tr> <tr><td>W–Wall Bracket</td></tr> </table>	C–Ceiling Bracket	W–Wall Bracket	<table border="1"> <tr><td>C–Cool(5000K)</td></tr> <tr><td>N–Nature(4000K)</td></tr> <tr><td>W–Warm(3000K)</td></tr> </table>	C–Cool(5000K)	N–Nature(4000K)	W–Warm(3000K)	<table border="1"> <tr><td>1–120°</td></tr> <tr><td>2–60°</td></tr> <tr><td>3–45°</td></tr> <tr><td>4–30°</td></tr> </table>	1–120°	2–60°	3–45°	4–30°	<table border="1"> <tr><td>V1:100–277V AC</td></tr> <tr><td>V2:200–480V AC</td></tr> </table>	V1:100–277V AC	V2:200–480V AC
30–30W	50–50W																														
60–60W	80–80W																														
100–100W	120–120W																														
150–150W	200–200W																														
240–240W	300–300W																														
400–400W	560–560W																														
N–NPT 3/4"																															
M–M25x1.5																															
C–Ceiling Bracket																															
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W–Warm(3000K)																															
1–120°																															
2–60°																															
3–45°																															
4–30°																															
V1:100–277V AC																															
V2:200–480V AC																															

## Mounting Options & Dimensions (mm/inch)

PFM-A 30W–80W

PFM-A 80W–200W

C: Ceiling Bracket Type

W: Wall Bracket Type



## PFM-E Series Industrial High Watts Flood Lights

LED 100-1000W	1,400-140,000lm
140lm/W Efficiency	100-277V / 347-480V
Type 4X,IP66	-20 °C ~ +40 °C
Heavy Industry	Wet & Corrosive Location



Model	Lumens	Wattage	Lumens per Watt	Equivalent HID Luminaire
PFM-E-100W	14000	100W	140	320-400W
PFM-E-200W	28000	200W	140	600-750W
PFM-E-300W	42000	300W	140	1000W
PFM-E-400W	56000	400W	140	-
PFM-E-500W	70000	500W	140	-
PFM-E-600W	84000	600W	140	-
PFM-E-800W	112000	800W	140	-
PFM-E-1000W	140000	1000W	140	-



### Applications

- Usage by application: Loading dock, warehouse, gym, factory, workshop, seaport, parking lot, high mast, square, statue, venue, bridge, monument, museum, airport, carport, garage, basement and marine.
- Usage by physical places: Industrial flood lights can be on the ground or steel bracket, we, steel structure, wet locations, wall areas, high mast bracket, off-court areas and other areas with or without based frame or plates, where corrosive, wet, dusty condition exists.
- High mast lighting system consist of an ultra high pole(up to 150 feet from the ground), a metal plane to accommodate light and several numbers sets of floodlights(normal more than 4 sets) to be used at the middle of squares or large transportation centers, loading and unloading ports, sea ports, factory zones to offer wide area lighting. SUREALL PFM-E series designed with a combined housing with optional separate units to adjust the whole watts as requested up to 1000 watts.

### Features

In order to produce much higher lumen with higher watts led, SUREALL PFM-E series industrial high mast flood lights range from 10,000 to 140,000 lumen for an extra wide area. Ten types of modular housing combination are available for different watts, it is widely used as high mast light, garage flood light, marine led spotlight, led carport lights, airfield lighting, statue lighting, bridge lighting, monument lighting, museum of light, venue lighting, boat flood lights, tunnel lighting.

- > Adjustable lighting angle for every chamber to allocate proper lighting to certain area
- > Combination for one to ten chambers for 100 watts to 1,000 watts to enlarge the lumens output
- > Die cast aluminum alloy housing for usage of any corrosive environment

### Standard Materials

**Housing:** Die cast aluminum with anti-corrosion powder coat, grey

**Lens:** Heat-resistant and impact-resistant tempered glass

**Gaskets:** Silicone



# Technical Datasheet

Rated Voltage	100–277V AC 50/60Hz 347–480V AC 50/60Hz							
Wattage (W)	100W	200W	300W	400W	500W	600W	800W	1000W
Lumens (LM)	14000	28000	42000	56000	70000	84000	112000	14000
Color Temperature	5000K/4000K/3000K							
IP Grade	Wet Locations, Type 4X, IP66							
Ambient Temperature	–20°C~ +40°C / –4° F ~ +104° F							
Cable Entry	NPT 3/4" or M25X1.5 (adaptor for M20x1.5, NPT 1" , NPT1 1/2" )							
Terminals	Terminal blocks ≤ 2.5mm², cable diameter 10–14mm							
Mounting Type	Bracket (Possible wall, ceiling, and block mounting with adjustable angle)							
Beam Angle	120° / 90° / 60° / 40°							

## Catalogue Numbering System

**PFM-E-**

**100**



Lamp

100–100W	200–200W
300–300W	400–400W
500–500W	600–600W
800–800W	1000–1000W

**C**



Mounting Type

B-Bracket

**W**



Color Temperature

C–Cool(5000K)
N–Nature(4000K)
W–Warm(3000K)

**1**



Beam Angle

1–120°
2–90°
3–60°
4–40°

**V1**

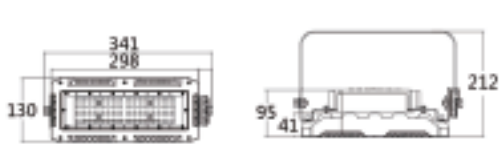


Voltage

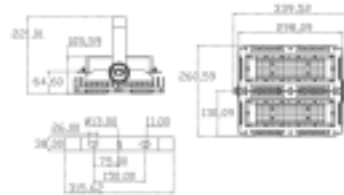
V1:100–277V AC
V2:347–480V AC

## Mounting Options & Dimensions (mm/inch)

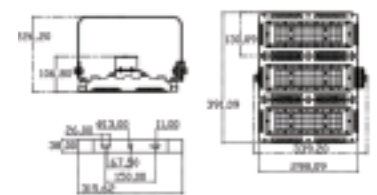
PFM-E 40–100W



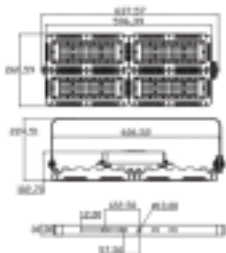
PFM-E80–200W



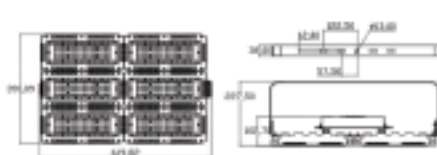
PFM-E120–300W



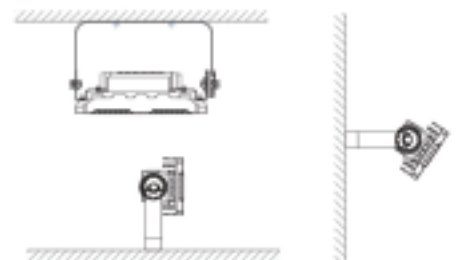
PFM-E 160–400W



PFM-E 240–600W



B: Bracket Type



## PFM-S Series LED Stadium Lights

LED 400-1200W	60,000-180,000lm
150lm/W Efficiency	100-277V / 277-480V
Type 4X,IP66	-40 °C ~ +55 °C
Heavy Industry	Wet & Corrosive Location



Model	Lumens	Wattage	Lumens per Watt	Equivalent HID Luminaire
PFM-S-400W	60000	400W	150	-
PFM-S-500W	75000	500W	150	-
PFM-S-800W	120000	800W	150	-
PFM-S-1000W	150000	1000W	150	-
PFM-S-1200W	180000	1200W	150	-



### Applications

- Usage by application: gym, seaport, parking lot, high mast, square, statue, venue, bridge, monument, museum, airport, carport, garage, basement and marine.
- Usage by physical places: can be on the ground or steel bracket, steel structure, wet locations, wall areas, high mast bracket, off-court areas and other areas with or without based frame or plates, where corrosive, wet, dusty condition exists.
- Stadium light is a certain functional flood light often used to illuminate a large playing field with extra high lighting intensity and broad beam angle where a sport event is being held. PFM-S series stadium light provide up to 180,000 lumens and beam angle from 5° to 60° lighting system to your stadium no matter football stadium, event stadium.

### Features

Designed with circular shape with extra bright led lamp, SUREALL PFM-S series led stadium light consist of an all-in-one aluminum alloy housing and features lumen output from 56,000 to 180,000 lumen for sport stadium. Its beam angle is adjustable from 5° to 60° , it can be widely used in outdoor wet location and where dusty, hot/cold temperature condition exist as led stadium lights, led sport lighting, stadium lights, football stadium lights, high mast light, sport court lighting, football field lights, gymnasium lighting.

- > Application for several separate lights in a platform for large area lighting
- > Directional laser sight to locate the illuminated range to reduce the installation cost

### Standard Materials

**Housing:** Die cast aluminum with anti-corrosion powder coat, black

**Lens:** Heat-resistant and impact-resistant tempered glass

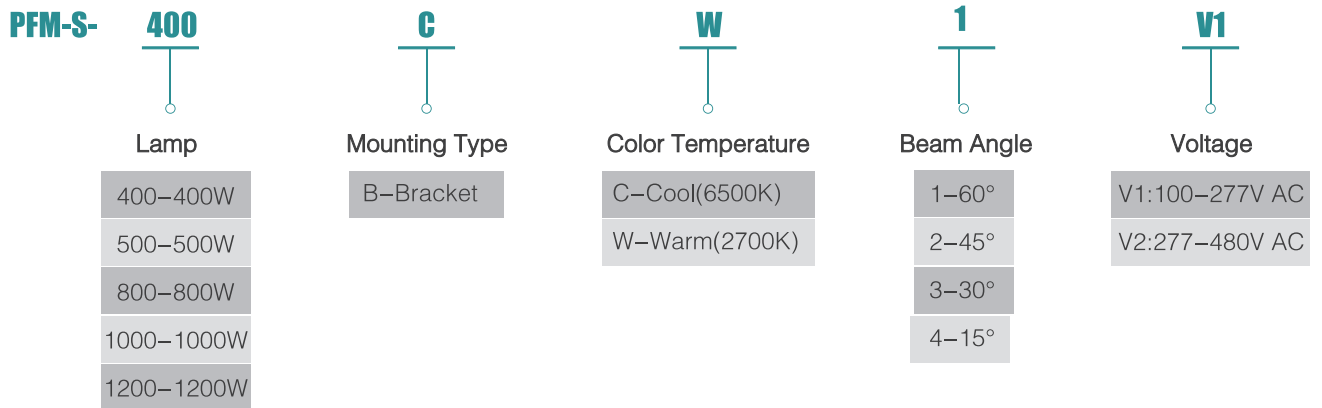
**Gaskets:** Silicone



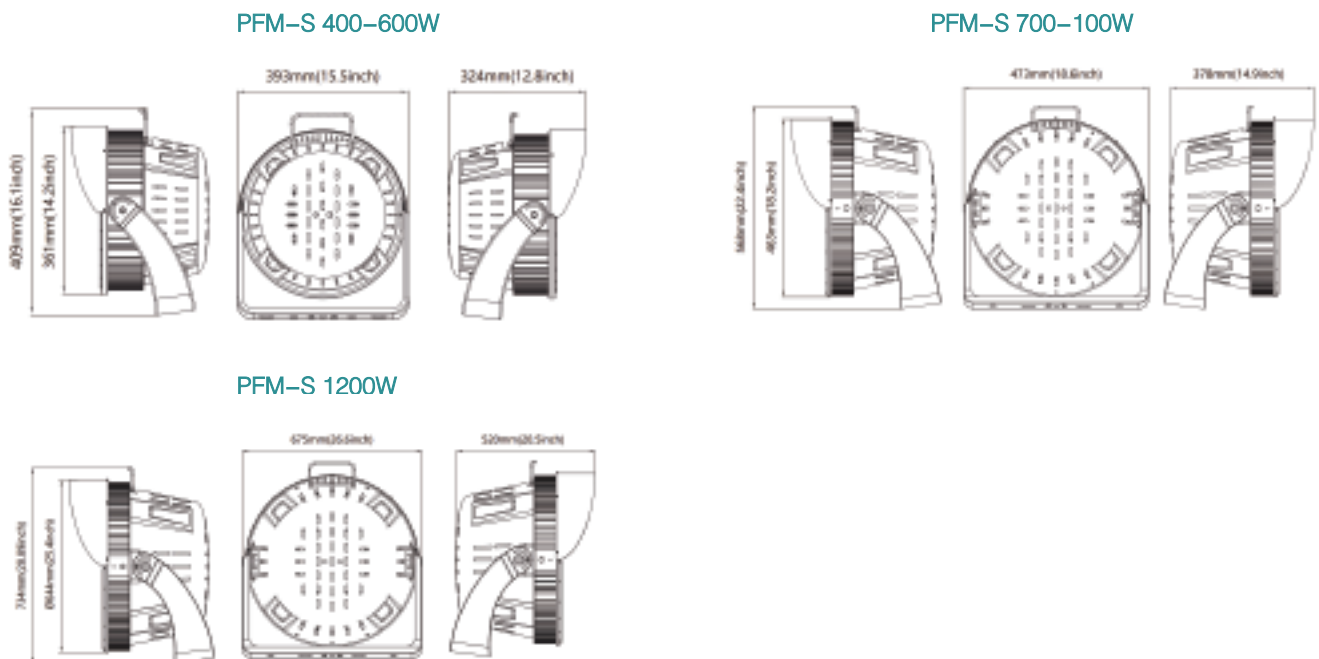
# Technical Datasheet

Rated Voltage	120–277V AC 50/60Hz 347–480V AC 50/60Hz				
Wattage (W)	400W	500W	800W	1000W	1200W
Lumens (LM)	60000	75000	120000	150000	180000
Color Temperature	6500K/2700K				
IP Grade	Wet Locations, Type 4X, IP66				
Ambient Temperature	–40°C ~ +50°C / –40° F ~ +122° F				
Cable Entry	NPT 3/4" or M25X1.5 (adaptor for M20x1.5, NPT 1" , NPT1 1/2" )				
Terminals	Terminal blocks ≤ 2.5mm², cable diameter 10–14mm				
Mounting Type	Bracket (Possible wall, ceiling, and block mounting with adjustable angle)				
Beam Angle	60° / 45° / 30° / 15°				

## Catalogue Numbering System

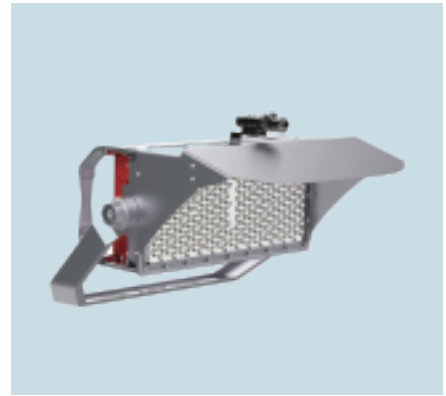


## Mounting Options & Dimensions (mm/inch)



## PFM-P Series LED Sport Lights

LED 400-2400W	56,000-336,000lm
140-150lm/W Efficiency	100-277V / 277-480V
Type 4X,IP66	-40 °C ~ +55 °C
Heavy Industry	Wet & Corrosive Location



Model	Lumens	Wattage	Lumens per Watt	Equivalent HID Luminaire
PFM-P-400W	56000	400W	140	–
PFM-P-500W	70000	500W	140	–
PFM-P-800W	112000	800W	140	–
PFM-P-1000W	140000	1000W	140	–
PFM-P-1200W	168000	1200W	140	–
PFM-P-1500W	210000	1500W	140	–
PFM-P-1600W	224000	1600W	140	–
PFM-P-2000W	280000	2000W	140	–
PFM-P-2400W	336000	2400W	140	–



### Applications

- Usage by application: gym, seaport, parking lot, high mast, square, statue, venue, bridge, monument, museum, airport, carport, garage, basement and marine.
- Usage by physical places: can be on the ground or steel bracket, steel structure, wet locations, wall areas, high mast bracket, off-court areas and other areas with or without based frame or plates, where corrosive, wet, dusty condition exists.
- Sport court can be held recreational competitions and professional match, for most general recreational sport courts, 75 to 200 lux is required, depends on the square meters of sport court, for example, when the sport court is 100 square meters, the required lumens should be 7,500 to 20,000 lumens. PFM-P series led sport flood light provide 56,000 to 336,000 lumens option for your sport court based on your actual square meters.
- Sporting facility, Stadium, Container loading area, Shipping yard, Flood and area lighting, High mast roadway, Airport, Industrial lighting, Parking lot, Railway, Port, Public square

### Features

Born for led sport lights, PFM-P series is an industrial led lights ranging from 56,000 to 336,000 lumen mounted in bracket widely used as gym lighting, airport lighting, led sports lighting, basketball light, basketball court lights, tennis court lighting, football stadium lights, football lights, led gym lighting, baseball field lights, outdoor basketball court lighting, sport court lighting, football field lights, gymnasium lighting, bridge lighting, soccer light, museum of light, pickleball court lighting.

- > Fixed bracket mounted with steel or concrete support for precise lighting direction
- > Modular lighting housing to adjust the lighting watts through convenient joint

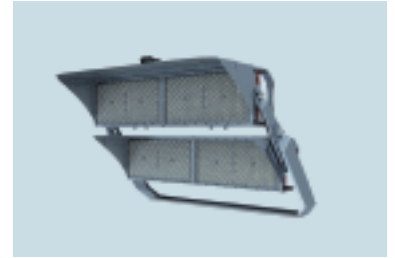


## Standard Materials

**Housing:** Die cast aluminum with anti-corrosion powder coat, grey

**Lens:** Heat-resistant and impact-resistant tempered glass

**Gaskets:** Silicone



## Technical Datasheet

Rated Voltage	100–277V AC 50/60Hz 277–480V AC 50/60Hz								
Wattage (W)	400W	500W	800W	1000W	1200W	1500W	1600W	2000W	2400W
Lumens (LM)	56000	70000	112000	140000	168000	210000	224000	280000	336000
Color Temperature	6500K/2700K								
IP Grade	Wet Locations, Type 4X, IP66								
Ambient Temperature	–40°C ~ +50°C / –40° F ~ +122° F								
Cable Entry	NPT 3/4" or M25X1.5 (adaptor for M20x1.5, NPT 1" , NPT1 1/2" )								
Terminals	Terminal blocks ≤ 2.5mm², cable diameter 10–14mm								
Mounting Type	Bracket (Possible wall, ceiling, and block mounting with adjustable angle)								
Beam Angle	120° / 60° / 45° / 30° / 15°								

## Catalogue Numbering System

**PFM-P-**

**400**



Lamp

400–400W	500–500W
800–800W	1000–1000W
1200–1200W	1500–1500W
1600–1600W	2000–2000W
2400–2400W	

**C**



Mounting Type

B–Bracket

**W**



Color Temperature

C–Cool(6500K)  
W–Warm(2700K)

**1**



Beam Angle

0–120°  
1–60°  
2–45°  
3–30°  
4–15°

**V1**

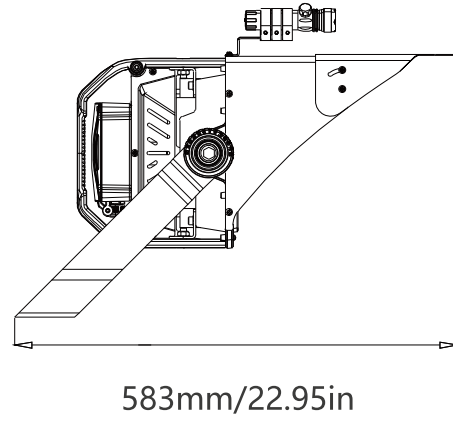
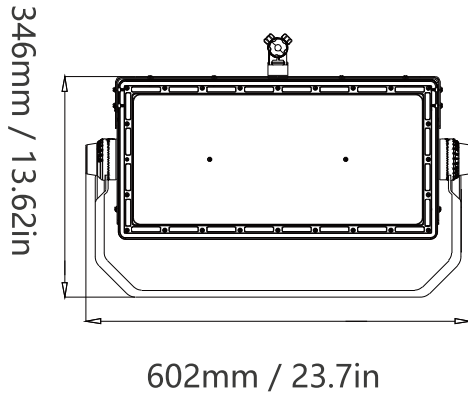


Voltage

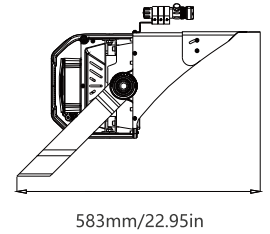
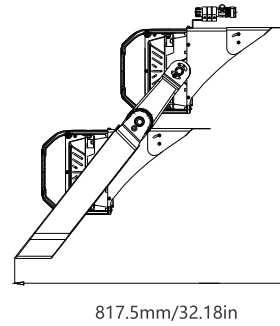
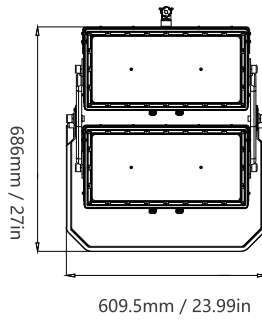
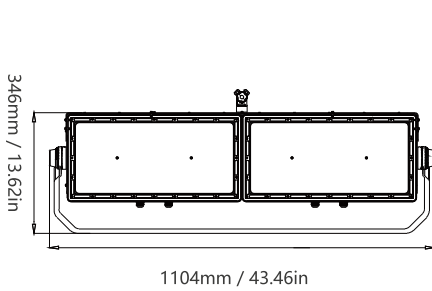
V1:100–277V AC  
V2:277–480V AC

# Mounting Options & Dimensions (mm/inch)

## PFM-P 400-600W

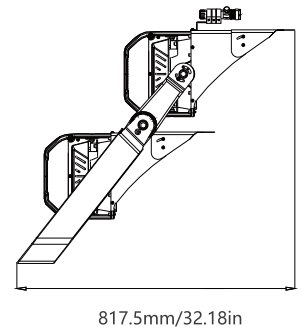
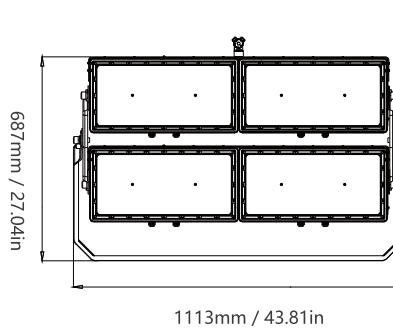
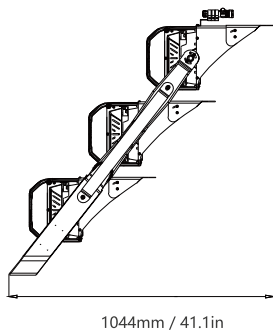
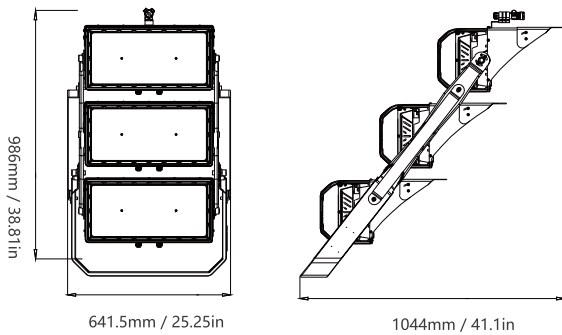


## PFM-P 800-1200W



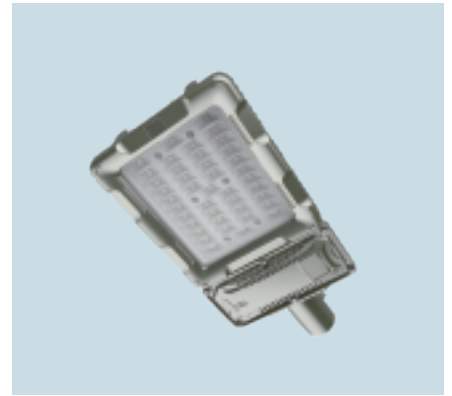
## PFM-P 1200-1800W

## PFM-P 800-1200W



## ISL Series Industrial Street Lights

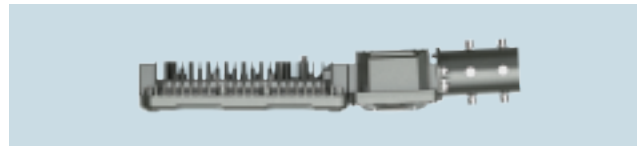
LED 80-200W	11,200-28,000lm
140lm/W Efficiency	100-277V / 200-480V
Type 4X,IP66	-40 °C ~ +55 °C
Heavy Industry	Wet & Corrosive Location



Model	Lumens	Wattage	Lumens per Watt	Equivalent HID Luminaire
ISL-80W	11200	80W	140	320-400W
ISL-100W	14000	100W	140	400W
ISL-120W	16800	120W	140	400-600W
ISL-150W	21000	150W	140	600-750W
ISL-200W	28000	200W	140	750-1000W

### Applications

- Usage by application: internal road of outdoor loading dock, outdoor warehouse, factory, workshop, seaport, street, road, roadway, driveway, walkway, freeway, highway, city, country.
- Usage by physical: installed on the ground-based pole, mast, stanchion, steel based bracket or platform where corrosive, wet, sunny condition exists.
- Offer proper illumination at both sides of street to guide cars, pedestrians to be visible for each other to improve the safety to protect people's life. Then, a bright street is a proven way of reducing crime such as robberies to set up a safe society. It can not only be used in general street but also inner street, road of industrial zone and factory.
  - > Industrial zone, science and technology park
  - > Island, coastal area
  - > Road for large machines, large canes, large trucks
  - > Science and technology park



### Features

Used in internal street, road, access and exit in heavy industry plant especially in wet, corrosive condition, street lights ISL series is made of high impact resistance aluminum alloy housing with high lumen led lamp. It also can be used in outdoor warehouse, loading dock, seaport as street lighting where high temperature, corrosion, moisture, dust exist frequently. It also can be used as cobra head street lights, led streetlights, sodium light to replace HPS street light in general usage application.

- > Water, wind, impact and corrosion resistance aluminum alloy housing with powder coated surface
- > Stripe heat dissipation structure control the range of temperature changes
- > Rapid connection head to lighting pole through stainless steel bolts
- > Separate chamber for led driver to reduce installation and maintenance cost

### Standard Materials

**Housing:** Die cast aluminum with anti-corrosion powder coat, green

**Lens:** Heat-resistant and impact-resistant tempered glass

**Gaskets:** Silicone



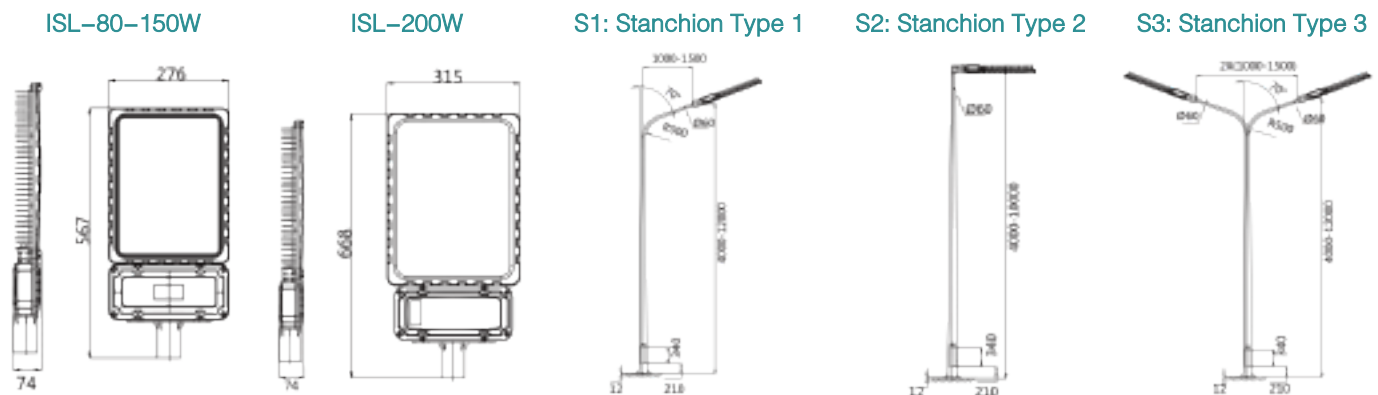
## Technical Datasheet

Rated Voltage	100–277V AC 50/60Hz 200–480V AC 50/60Hz				
Wattage (W)	80W	100W	120W	150W	200W
Lumens (LM)	11200	14000	16800	21000	28000
Color Temperature	5000K/4000K/3000K				
IP Grade	Wet Locations, Type 4X, IP66				
Ambient Temperature	–40°C~ +55°C / –40° F ~ +131° F				
Cable Entry	NPT 3/4" or M25X1.5 (adaptor for M20x1.5, NPT 1" , NPT1 1/2" )				
Terminals	Terminal blocks ≤ 2.5mm <sup>2</sup> , cable diameter 10–14mm				
Mounting Type	Stanchion				
Beam Angle	120° / 60° / 45° / 30°				

## Catalogue Numbering System

ISL- <b>80</b>	<b>N</b>	<b>C</b>	<b>W</b>	<b>1</b>	<b>V1</b>
Lamp	Cable Entry	Mounting Type	Color Temperature	Beam Angle	Voltage
80–80W	N–NPT 3/4"	S1–Stanchion Type 1	C–Cool(5000K)	1–120°	V1:100–277V AC
100–100W	M–M25x1.5	S2–Stanchion Type 2	N–Nature(4000K)	2–60°	V2:200–480V AC
120–120W		S3–Stanchion Type 3	W–Warm(3000K)	3–45°	
150–150W				4–30°	
200–200W					

## Mounting Options & Dimensions (mm/inch)



## ISL-E Series Road Street Lights

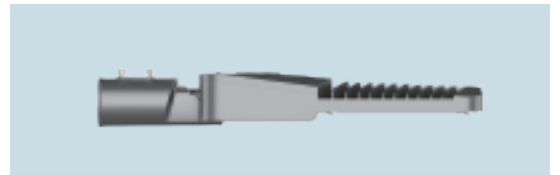
LED 60-180W	84,000-25,200lm
140lm/W Efficiency	100-277V / 200-480V
Type 4X,IP66	-40 °C ~ +55 °C
Heavy Industry	Wet & Corrosive Location



Model	Lumens	Wattage	Lumens per Watt	Equivalent HID Luminaire
ISL-E-60W	8400	60W	140	250W-320W
ISL-E-80W	11200	80W	140	320-400W
ISL-E-100W	14000	100W	140	400W
ISL-E-120W	16800	120W	140	400-600W
ISL-E-150W	21000	150W	140	600-750W
ISL-E-180W	25200	180W	140	750-1000W

### Applications

- Usage by application: internal road of outdoor loading dock, outdoor warehouse, factory, workshop, seaport, street, road, roadway, driveway, walkway, freeway, highway, city, country.
- Usage by physical: installed on the ground-based pole, mast, stanchion, steel based bracket or platform where corrosive, wet, sunny condition exists.
- Offer proper illumination at both sides of street to guide cars, pedestrians to be visible for each other to improve the safety to protect people's life. Then, a bright street is a proven way of reducing crime such as robberies to set up a safe society. It can not only be used in general street but also inner street, road of industrial zone and factory.
  - > City road, urban road and rural road, secondary road, trunk road
  - > Square, parking lot, playground
  - > Farms, barns and courtyards
  - > Island, coastal area
  - > Square, parking lot, playground of industrial zone



### Features

Road street lights ISL-E series are widely used for street, bridge, road, roadway, driveway, walkway, bridge, freeway, highway city as street lighting, led road light, roadway light, public lighting, driveway light, led walkway lights, bridge of light, freeway lights, highway street lights, led city street lights and country lighting. It can be also called led shoebox light, cobra head light, whose led lamp save at least 70% energy when compared with HPS street lights.

- > Back type heat removal structure to increase the area of air flow to cool down
- > Convenient lock-up device for the cover to fast maintenance and replacement
- > Inner hex screw to lighting pole for tough joint and connection
- > Adjustable angle for lighting within 30° to find the proper lighting distribution

### Standard Materials

**Housing:** Die cast aluminum with anti-corrosion powder coat, grey

**Lens:** Heat-resistant and impact-resistant tempered glass

**Gaskets:** Silicone



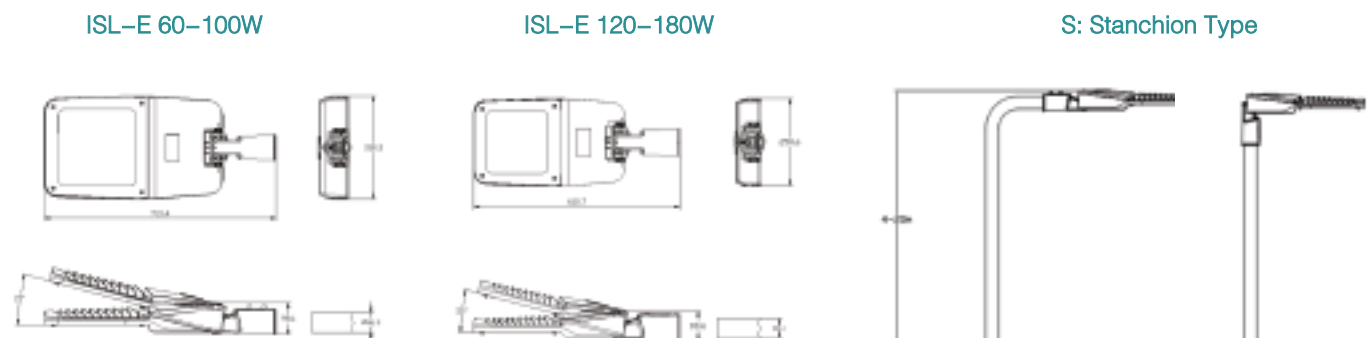
## Technical Datasheet

Rated Voltage	100–277V AC 50/60Hz 200–480V AC 50/60Hz					
Wattage (W)	60W	80W	100W	120W	150W	180W
Lumens (LM)	8400	11200	14000	16800	21000	25200
Color Temperature	5000K/4000K/3000K					
IP Grade	Wet Locations, Type 4X, IP66					
Ambient Temperature	–40°C ~ +55°C / –40° F ~ +131° F					
Cable Entry	NPT 3/4" or M25X1.5 (adaptor for M20x1.5, NPT 1" , NPT1 1/2" )					
Terminals	Terminal blocks ≤ 2.5mm <sup>2</sup> , cable diameter 10–14mm					
Mounting Type	Stanchion					
Beam Angle	120° / 60° / 45° / 30°					

## Catalogue Numbering System

<b>ISL-E-</b>	<b>80</b>	<b>N</b>	<b>C</b>	<b>W</b>	<b>1</b>	<b>V1</b>
	Lamp	Cable Entry	Mounting Type	Color Temperature	Beam Angle	Voltage
	60–60W    120–120W	N–NPT 3/4"	S–Stanchion	C–Cool(5000K)	1–120°	V1:100–277V AC
	80–80W    150–150W	M–M25x1.5		N–Nature(4000K)	2–60°	V2:200–480V AC
	100–100W    180–180W			W–Warm(3000K)	3–45°	
					4–30°	

## Mounting Options & Dimensions (mm/inch)



## ISL-S Solar Street Lights

LED 10-50W	1,400-7,000lm
140lm/W Efficiency	180-265V
Type 4X,IP66	-40 °C ~ +55 °C
Heavy Industry	Wet & Corrosive Location



Model	Lumens	Wattage	Lumens per Watt	Equivalent HID Luminaire
ISL-S-10W	1400	10W	140	70W
ISL-S-20W	2800	20W	140	70-100W
ISL-S-30W	4200	30W	140	100W
ISL-S-40W	5600	40W	140	100-150W
ISL-E-50W	7000	50W	140	175W



### Applications

- Usage by application: internal road of outdoor loading dock, outdoor warehouse, factory, workshop, seaport, street, road, roadway, driveway, walkway, freeway, highway, city, country.
- Usage by physical: installed on the ground-based pole, mast, stanchion, steel based bracket or platform where corrosive, wet, sunny condition exists.
- Solar led street light is equipped with a photo cell which can transfer the light from the sun solar energy into electricity to run the led street light to ensure the illumination, thus, solar led street light are applied for somewhere electricity is impossible or not convenient to reach or somewhere electricity device cost big investment and electricity power supply is not cost-effective, beneficial for applications below:
  - > Urban road, rural road and other remote roadway, highway
  - > Road signs, trails, mountains, pavilions, parking lots
  - > Playground, stadium
  - > Outdoor warehouse, storage area

### Features

Born for solar street lights, solar street lamp ISL-S series is designed with a solar photocell to make full use of the solar energy to offer power for led street lights. It also can be used as solar panel street light, street light photocell, shoebox light especially for freeway, highway where power is not capable to reach. They are designed to be compact and self-sufficient in terms of their power source. The solar panel captures the daylight energy and store it in the battery unit, which powers the street light as required when it is dark.

- > Solar panel battery for lighting at daytime and nighttime autonomously
- > Die cast aluminum alloy enclosed structure to withstand strong wind and rain.

### Standard Materials

**Housing:** Die cast aluminum with anti-corrosion powder coat, grey

**Lens:** Heat-resistant and impact-resistant tempered glass

**Gaskets:** Silicone



## Technical Datasheet

Rated Voltage	180–265V AC				
Wattage (W)	10W	20W	30W	40W	50W
Lumens (LM)	1400	2800	4200	5600	7000
Color Temperature	5000K/4000K/3000K				
IP Grade	Wet Locations, Type 4X, IP66				
Ambient Temperature	–40°C ~ +55°C / –40° F ~ +131° F				
Cable Entry	NPT 3/4" or M25X1.5 (adaptor for M20x1.5, NPT 1" , NPT1 1/2" )				
Terminals	Terminal blocks ≤ 2.5mm <sup>2</sup> , cable diameter 10–14mm				
Mounting Type	Stanchion				
Beam Angle	120° / 60° / 45° / 30°				

## Catalogue Numbering System

**ISL-S-**

**40**

**N**

**C**

**W**

**1**

Lamp

Cable Entry

Mounting Type

Color Temperature

Beam Angle

10–10W

20–20W

30–30W

40–40W

50–50W

N–NPT 3/4"

M–M25x1.5

S–Stanchion

C–Cool(5000K)

N–Nature(4000K)

W–Warm(3000K)

1–120°

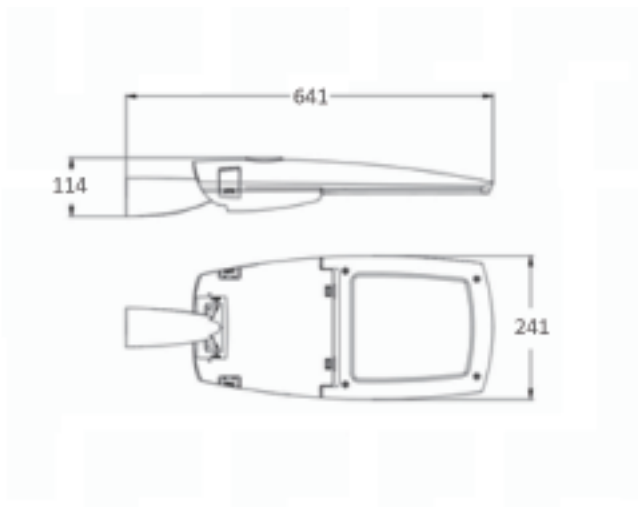
2–60°

3–45°

4–30°

## Mounting Options & Dimensions (mm/inch)

W: Wall Bracket Type





## IFL-A Industrial linear Fluorescent Light

LED 20-120W	2,800-16,800lm
140lm/W Efficiency	100-277V / 200-480V
Type 4X,IP66	-40 C ~ +55 C
Heavy Industry	Wet & Corrosive Location



Model	Lumens	Wattage	Lumens per Watt	Equivalent HID Luminaire
IFL-A-20W	2800	20W	140	70-100W
IFL-A-30W	42800	30W	140	100W
IFL-A-40W	5600	40W	140	100-150W
IFL-A-60W	8400	60W	140	175-250W
IFL-A-80W	11200	80W	140	320-400W
IFL-A-120W	16800	120W	140	400-600W



### Applications

- Usage by application: Interior and exterior deck, deck rail, warehouse, workshop, garage, crane machines room, pump rooms, electrical rooms, waster water treatment plants, paint spray facilities, chemical manufacturing plant, metal processing plant.
- Usage by physical places: Physical places include wall, ceiling of rooms, doorways, stairways, access ways, exit, around the machines, wash down areas, overhead, workbench, stanchion pole mount.
- Industrial led tube light are applied for areas where corrosive and extreme elements are exposed below:
  - > Industrial application: paint spray booths, non-hazardous processing center, safety workshop, bulk handling area, electrical distribution room.
  - > Warehouse application: cargos storage, machines warehouse.

### Features

Industrial linear fluorescent light IFL-A series is specifically designed to replace fluorescent T8, T12, T5 lamp for heavy and harsh industrial applications. Available in 2 foot led lights and 4 foot led lights with 2800lm and 5600lm respectively. Features in aluminum alloy housing and replacing fluorescent light fixture with led, this led linear lighting is widely used in non-hazardous area in mining, marine, wastewater treatment, food processing and heavy metal manufacturing where vibration, impact exist.

- > Integrated aluminum alloy housing resist to strong corrosion
- > 2 feet short tube and 4 feet long tube for the length
- > Maximum led 120 watts with high lumen efficiency

### Standard Materials

**Housing:** Die cast aluminum with anti-corrosion powder coat, green

**Lens:** Heat-resistant and impact-resistant tempered glass

**Gaskets:** Silicone



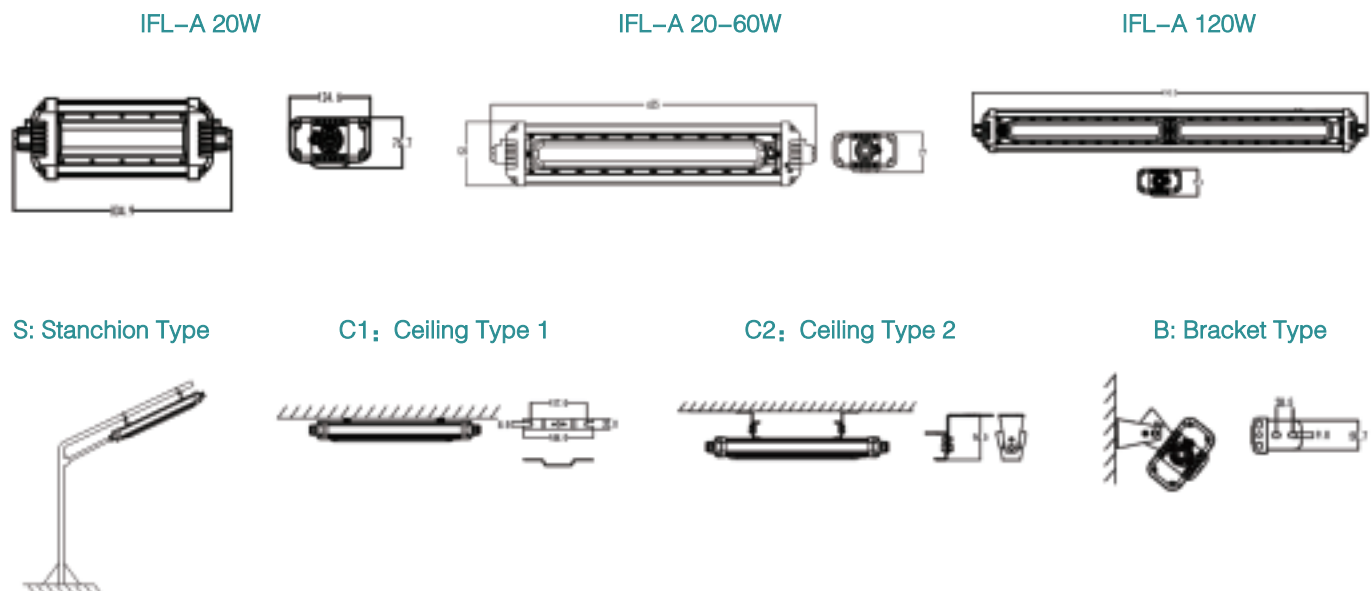
## Technical Datasheet

Rated Voltage	100–277V AC 50/60Hz 200–480V AC 50/60Hz					
Wattage (W)	20W	30W	40W	60W	80W	120W
Lumens (LM)	2800	4200	5600	8400	11200	16800
Color Temperature	5000K/4000K/2700K					
IP Grade	Wet Locations, Type 4X, IP66					
Ambient Temperature	–40°C ~ +55°C / –40° F ~ +131° F					
Cable Entry	NPT 3/4" or M25X1.5					
Terminals	Terminal blocks ≤ 2.5mm <sup>2</sup> , cable diameter 10–14mm					
Mounting Type	Stanchion / Ceiling / Bracket					
Beam Angle	120° / 90° / 60° / 40°					

## Catalogue Numbering System

IFL-A- 20	N	C	W	1	V1	EM
Lamp	Cable Entry	Mounting Type	Color Temperature	Beam Angle	Voltage	Emergency
20–20W	N–NPT 3/4"	S–Stanchion	C–Cool(5000K)	1–120°	V1:100–277V AC	E1–120min
30–30W	M–M25x1.5	C1–Ceiling Type 1	N–Nature(4000K)	2–90°	V2:347–480V AC	E2–180min
40–40W		C2–Ceiling Type 2	W–Warm(3000K)	3–60°		
60–60W		B–Bracket		4–40°		
80–80W						
120–120W						

## Mounting Options & Dimensions (mm/inch)



## IFL-B Industrial LED Linear Lighting

LED 40-120W	5,600-16,800lm
140lm/W Efficiency	100-277V / 200-480V
Type 4X,IP66	-40 °C ~ +55 °C
Heavy Industry	Wet & Corrosive Location



Model	Lumens	Wattage	Lumens per Watt	Equivalent HID Luminaire
IFL-B-40W	5600	40W	140	100-150W
IFL-B-60W	8400	60W	140	175-250W
IFL-B-80W	11200	80W	140	320-400W
IFL-B-120W	16800	120W	140	400-600W



### Applications

- Usage by application: Interior and exterior deck, deck rail, warehouse, workshop, garage, crane machines room, pump rooms, electrical rooms, waster water treatment plants, paint spray facilities, chemical manufacturing plant, metal processing plant.
- Usage by physical places: Physical places include wall, ceiling of rooms, doorways, stairways, access ways, exit, around the machines, wash down areas, overhead, work-bench, stanchion pole mount.
- Industrial led tube light are applied for areas where corrosive and extreme elements are exposed below:
  - > Industrial application: paint spray booths, non-hazardous processing center, safety workshop, bulk handling area, electrical distribution room.
  - > Warehouse application: cargos storage, machines warehouse.

### Features

Industrial led linear lighting IFL-B series is structured with corrosive resistant aluminum alloy housing with powder coated surface for mining and metal processing, wastewater treatment, power generation, industrial manufacturing application. Available for 2ft and 4ft led panel producing 2800 and 5600 lumens, this led tube light is built up to be used to replace fluorescent light with led and worked as led warehouse lighting, industrial warehouse lighting, industrial led shop lights, instrument panel lights, paint booth lights, linear led high bays especially for hose down and corrosive environment.

- > Die cast aluminum alloy housing with separate chamber for led driver
- > 4 feet tube length for high watts 120W to work as linear high bay light for large area

### Standard Materials

**Housing:** Die cast aluminum with anti-corrosion powder coat, green

**Lens:** Heat-resistant and impact-resistant tempered glass

**Gaskets:** Silicone



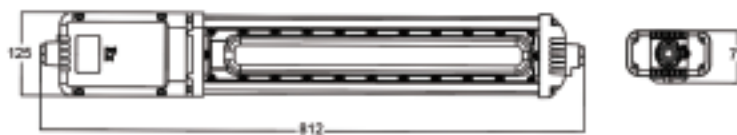
## Technical Datasheet

Rated Voltage	100–277V AC 50/60Hz 200–480V AC 50/60Hz			
Wattage (W)	40W	60W	80W	120W
Lumens (LM)	5600	8400	11200	16800
Color Temperature	5000K/4000K/2700K			
IP Grade	Wet Locations, Type 4X, IP66			
Ambient Temperature	–40°C ~ +55°C / –40° F ~ +131° F			
Cable Entry	NPT 3/4" or M25X1.5			
Terminals	Terminal blocks ≤ 2.5mm <sup>2</sup> , cable diameter 10–14mm			
Mounting Type	Stanchion / Ceiling / Bracket			
Beam Angle	120° / 90° / 60° / 40°			

## Catalogue Numbering System

<b>IFL-B-</b>	<b>20</b>	<b>N</b>	<b>C</b>	<b>W</b>	<b>1</b>	<b>V1</b>	<b>EM</b>
Lamp	Cable Entry	Mounting Type	Color Temperature	Beam Angle	Voltage	Emergency	
40–40W	N–NPT 3/4"	S–Stanchion	C–Cool(5000K)	1–120°	V1:100–277V AC	E1–120min	
60–60W	M–M25x1.5	C1–Ceiling Type 1	N–Nature(4000K)	2–90°	V2:200–480V AC	E2–180min	
80–80W		C2–Ceiling Type 2	W–Warm(3000K)	3–60°			
120–120W		B–Bracket		4–40°			

## Mounting Options & Dimensions (mm/inch)



S: Stanchion Type



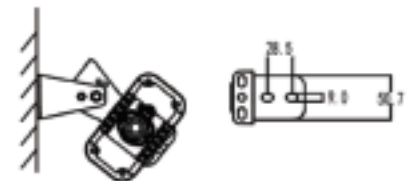
C1: Ceiling Type 1



C2: Ceiling Type 2

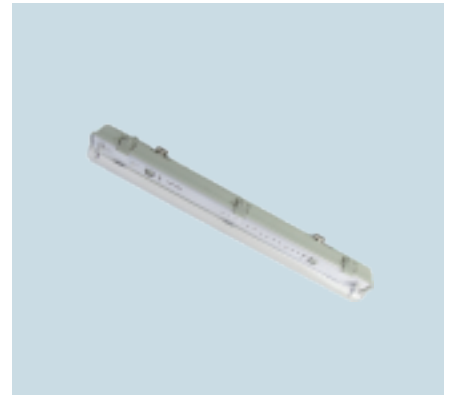


B: Bracket Type



## IFL-G Industrial Linear Lighting

T8/LED 8-72W	1,530-4,480lm
T8-85lm/W,LED-140lm/W	100-277V / 200-480V
Type 4X,IP66	-40 °C ~ +55 °C
Heavy Industry	Wet & Corrosive Location



Model	Lumens	Wattage	Lumens per Watt	Equivalent HID Luminaire
IFL-G-1x18W	1530	T8 1x18W	85	70W
IFL-G-2x18W	3060	T8 2x18W	85	70-100W
IFL-G-1x36W	3060	T8 1x36W	85	70-100W
IFL-G-2x36W	6120	T8 2x36W	85	100-150W
IFL-G-1x8W	1120	LED 1x8W	140	70W
IFL-G-2x8W	2240	LED 2x8W	140	70-100W
IFL-G-1x16W	2240	LED 1x16W	140	70-100W
IFL-G-2x16W	4480	LED 2x16W	140	100-150W



### Applications

- Usage by application: Interior and exterior deck, deck rail, warehouse, workshop, garage, crane machines room, pump rooms, electrical rooms, waster water treatment plants, paint spray facilities, chemical manufacturing plant, metal processing plant.
- Usage by physical places: Physical places include wall, ceiling of rooms, doorways, stairways, access ways, exit, around the machines, wash down areas, overhead, work-bench, stanchion pole mount.
- Applied for areas where corrosive and extreme elements are exposed below:
  - > Industrial application: electrical control room, cabinet, cargos holding areas, machines rooms, shipyards, fabrication workshop.
  - > Warehouse application: cargos warehouse, warehouse maintenance areas, packing areas, aisles and loading areas.

### Features

Made of glass reinforced polyester housing and led tube, industrial non-metallic led linear light IFL-G series can be applied for both fluorescent lamp T8 or led tubes. With option for 2ft led light and 4 foot led light for T8 and led tube, high impact resistance for both body and diffuser contribute the application range from wet to harsh and high corrosive condition. This led fluorescent light can be also used as led tube light fixture, fluorescent plant light, linear suspension lighting, led tube light fitting, linear high bay led lights and suspended linear led lighting.

- > Glass reinforced plastic material housing for corrosion and electromagnetic resistance
- > T8 tube lamp 18w and 36w, LED tube lamp 18w and 36w for option

### Standard Materials

**Housing:** Glass reinforced plastic, green

**Lens:** Polycarbonate

**Gaskets:** Silicone



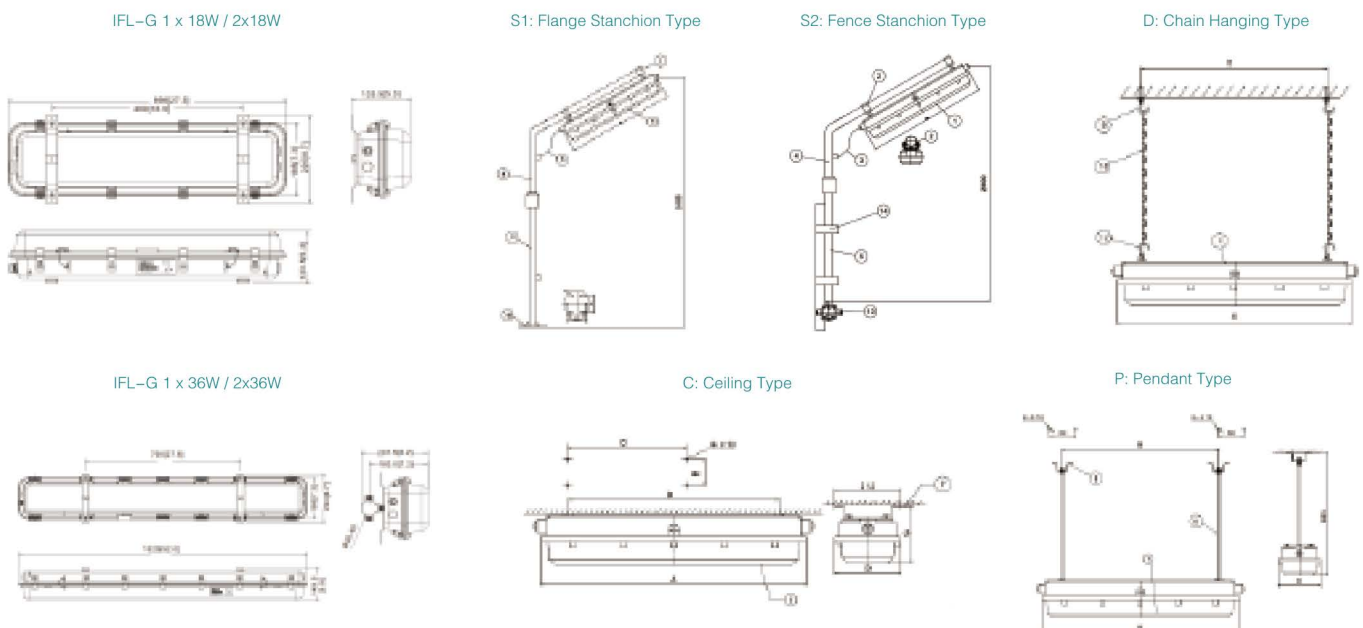
# Technical Datasheet

Rated Voltage	100–277V AC 50/60Hz 200–480V AC 50/60Hz							
Wattage (W)	T8 1x18W	T8 2x18W	T8 1x36W	T8 2x36W	LED 1x8W	LED 2x8W	LED 1x16W	LED 2x16W
Lumens (LM)	1530	3060	3060	6120	1120	2240	2240	4480
Color Temperature	5000K/4000K/2700K							
IP Grade	Wet Locations, Type 4X, IP66							
Ambient Temperature	–40°C~ +55°C / –40° F ~ +131° F							
Cable Entry	M25X1.5							
Terminals	Terminal blocks ≤ 2.5mm <sup>2</sup> , cable diameter 10–14mm							
Mounting Type	Ceiling / Chain / Pendant / Flange Stanchion / Fence Stanchion							
Beam Angle	120° / 90° / 60° / 40°							

## Catalogue Numbering System

IFL-G-		20	N	C	W	1	V1	EM
Lamp		Cable Entry	Mounting Type	Color Temperature	Beam Angle	Voltage	Emergency	
T8 1x18W	LED 1x8W	M–M25x1.5	C–Ceiling	C–Cool(5000K)	1–120°	V1:100–277V AC	E1–120min	
T8 2x18W	LED 2x8W		D–Chain	N–Nature(4000K)	2–90°			
T8 1x36W	LED 1x16W		P–Pendant	W–Warm(3000K)	3–60°	V2:200–480V AC	E2–180min	
T8 2x36W	LED 2x16W		S1–Flange Stanchion		4–40°			
			S2–Fence Stanchion					

## Mounting Options & Dimensions (mm/inch)



## IFL-S Industrial Stainless Steel Linear Fluorescent Light

LED 20-80W	2,800-11,200lm
140lm/W Efficiency	100-277V / 200-480V
Type 4X,IP66	-40 °C ~ +55 °C
Heavy Industry	Wet & Corrosive Location



Model	Lumens	Wattage	Lumens per Watt	Equivalent HID Luminaire
IFL-S-1x20W	2800	LED 20W	140	70-100W
IFL-S-1x30W	4200	LED 30W	140	100W
IFL-S-2x15W	4200	LED 30W	140	100W
IFL-S-1x40W	5600	LED 40W	140	100-150W
IFL-S-2x20W	5600	LED 40W	140	100-150W
IFL-S-2x30W	8400	LED 60W	140	175-250W
IFL-S-2x40W	11200	LED 80W	140	320-400W



### Applications

- Usage by application: Interior and exterior deck, deck rail, warehouse, workshop, garage, crane machines room, pump rooms, electrical rooms, waster water treatment plants, paint spray facilities, chemical manufacturing plant, metal processing plant.
- Usage by physical places: Physical places include wall, ceiling of rooms, doorways, stairways, access ways, exit, around the machines, wash down areas, overhead, work-bench, stanchion pole mount.
- Applied for areas where corrosive and extreme elements are exposed below:
  - > Industrial application: electrical control room, cabinet, cargos holding areas, machines rooms, shipyards, fabrication workshop.
  - > Warehouse application: cargos warehouse, warehouse maintenance areas, packing areas, aisles and loading areas.

### Features

Industrial stainless steel linear fluorescent light IFL-S series is equipped with rugged stainless steel housing as an excellent lighting solution for high duty industrial location. Designed for replacing fluorescent light fixture with led, high lumen efficiency and maintenance-free features make it suitable for pharmaceutical facilities, power generation plant, sewage treatment plant and other corrosive environment.

- > stainless steel material housing for corrosion and rust resistance
- > LED strip lamp for durable long listing feature for 5 years without shut-down

### Standard Materials

**Housing:** Stainless Steel

**Lens:** Polycarbonate

**Gaskets:** Silicone



## Technical Datasheet

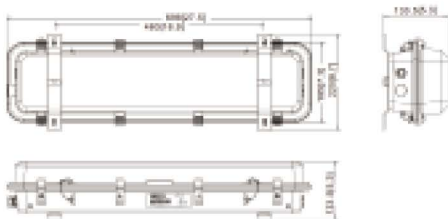
Rated Voltage	100–277V AC 50/60Hz 200–480V AC 50/60Hz						
Wattage (W)	LED 1x20W	LED 1x30W	LED 2x15W	LED 1x40W	LED 2x20W	LED 2x30W	LED 2x40W
Lumens (LM)	2800	4200	4200	5600	5600	5400	11200
Color Temperature	5000K/4000K/2700K						
IP Grade	Wet Locations, Type 4X, IP66						
Ambient Temperature	–40°C ~ +55°C / –40° F ~ +131° F						
Cable Entry	NPT 3/4" or M25X1.5						
Terminals	Terminal blocks ≤ 2.5mm <sup>2</sup> , cable diameter 10–14mm						
Mounting Type	Ceiling / Chain / Pole						
Beam Angle	120° / 90° / 60° / 40°						

## Catalogue Numbering System

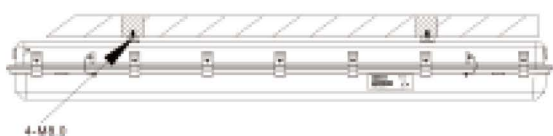
IFL-S- 80		N	C	W	1	V1	EM
Lamp		Cable Entry	Mounting Type	Color Temperature	Beam Angle	Voltage	Emergency
LED 1x20W	LED 2x20W	M–M25x1.5	C–Ceiling	C–Cool(5000K)	1–120°	V1:100–277V AC	E1–120min
LED 1x30W	LED 2x30W		D–Chain	N–Nature(4000K)	2–90°	V2:200–480V AC	E2–180min
LED 2x15W	LED 2x40W		P–Pole	W–Warm(3000K)	3–60°		
LED 1x40W					3–40°		

## Mounting Options & Dimensions (mm/inch)

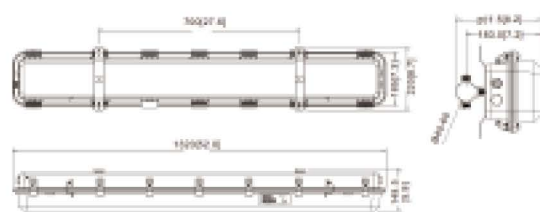
IFL-S 20–40W



C–Ceiling Type



IFL-S 40–80W



D–Chain Type



S–Pole Type





## AEG Series Emergency Light

LED 1.8W	100-240V AC
DC 3.7V	3H Emergency
Type 4X,IP66	-40 C ~ +55 C



### Applications

- Emergency lighting shall be installed at every exit door, at the intersection of corridors, at exit of aisles, at exit stairways or ramps and at such other locations and intervals as are necessary to provide the occupants with knowledge of the various means of egress available.
- Bugeye light is a kind of emergency light with two separate emergency bulb heads, “bugeye” means the shape of the light is like the eye of bug, you can call double lamp emergency light. SUREALL AEG series emergency light is famous for the long lasting emergency time and friendly–environment battery without no hazard to surroundings.
- Bug eye emergency light are applied for area where harsh conditions exits below:
  - > Inner workshop of non–hazardous products manufacturing, processing rooms, electrical control rooms
  - > Aisles or exit of storage and warehouse area for cartons
  - > Exit of machines maintenance areas, shit areas

### Features

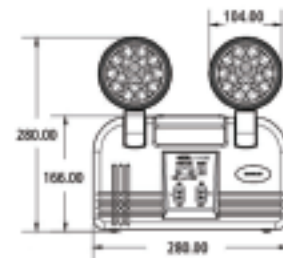
SUREALL AEG series emergency light is designed with a bug eye shape to illuminate when failure or interrupt of power. This emergency lighting can be used as emergency light, emergency lamp, led emergency light, battery emergency, rechargeable emergency light, emergency light fixture, bug eye emergency light, led emergency lights with battery backup, battery operated emergency lights, bug eye lights, emergency night lights.

- > Bug eye shape twin lamp head for emergency lighting
- > Emergency long lasting time up to 180 min
- > Adjustable angle when wall mounted

### Technical Datasheet

Material	ABS
Rated Voltage	DC 3.7V
Charging Voltage	100–240V AC,50/60Hz
Wattage(W)	1.8W, 180Lm
Battery Capacity	Lithium 3.7V,1500mAh
Emergency Time	3H
IP Grade	Wet Locations, Type 4X, IP67
Ambient Temperature	-40°C~ +55°C /-40° F ~ +131° F
Size & Weight	280x280x78mm, 0.93Kg

### Mounting Options & Dimensions (mm/inch)



## AES Series Emergency Sign Light

LED 1W	100-240V AC
DC 6.4V	3H Emergency
Type 4X,IP66	0°C ~ +40°C



### Applications

- Emergency exit signs shall be provided at every exit, at the intersection of corridors, at exit stairways or ramps and at such other locations and intervals as are necessary to provide the occupants with knowledge of the various means of egress available. SUREALL AES series emergency exit sign provide continuous lighting with 120/180 minutes emergency time with back-up emergency battery.
- Emergency exit signs lighting shall be installed at every exit door, at the intersection of corridors, at exit of aisles, at exit stairways or ramps and at such other locations and intervals as are necessary to provide the occupants with knowledge of the various means of egress available.
- Emergency exit sign are applied for area where harsh conditions exit below:
  - > Exit of non-hazardous products workshop, processing rooms, factory
  - > Exit of large warehouse carrying general cargos, liquid
  - > Exit of machines room, maintenance areas, test center

### Features

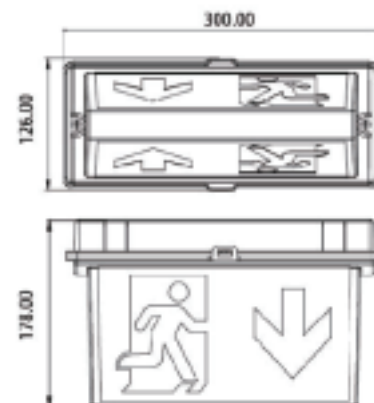
SUREALL AES series emergency sign light is made of plastic with a led visual exit panel with “exit” or arrows. This exit light is normally worked as exit sign, exit sign with lights, emergency exit sign, exit light, fire exit signs, exit sign with emergency lights, emergency light with battery backup, illuminated exit signs, led exit light, exit sign with arrow, exterior sign lighting, exit sign warehouse, exit sign with battery backup.

- > Tailor-made plate with exit letters from different language, arrows and marks
- > Lithium back-up battery last for at least 180 min

### Technical Datasheet

Material	Poly carbonate
Rated Voltage	DC 6.4V
Charging Voltage	220-240V AC,50/60Hz
Wattage (W)	1W,100Lm
Battery Capacity	Lithium 6.4V,1500mAh
Emergency Time	3H
IP Grade	Wet Locations, Type 4X, IP67
Ambient Temperature	0°C ~ +40°C /32° F ~ +104° F
Mounting Type	Ceiling / Recessed
Size & Weight	335x155x183mm / 300x126x178mm, 0.8Kg

### Mounting Options & Dimensions (mm/inch)



## TWL Series Portable Tripod Work Light

LED 30/50W	100-240V AC
DC 16.8V	4-8H Emergency
Type 4X,IP66	-40 °C ~ +55 °C



### Applications

- Used as work light for machining areas, processing area, test center, control room, railway working area, construction site, workshop.
- Portable lighting is work light with portable, movable features and can be plug-in in wherever there is electrical outlet to connect. For most industrial areas, portable working light are essential for maintenance and replacement in machinery area, workshop, electrical room, warehouse, garages. SUREALL TWL series portable tripod work light is designed with light-weight housing for convenient carry-over.
- Portable work light are applied for area where harsh conditions exists below:
  - > Workshop of general material relative to machining, assembly line, processing, test area
  - > Power distribution room, raw material workshop, semi-finished material and finished material storage areas
  - > Outdoor machines parking lot, garage, indoor and outdoor warehouse

### Features

SUREALL portable tripod work light TWL series is a spotlight seated on the top of a metal tripod to movable for areas where request portable lighting. Adjustable supporting height ranging from 1.2 to 2.3 meters as requested, this portable lighting ease the well-organized lighting distribution to work as a led tri proof light, led tripod work light, portable tripod, tripod work light, led tripod light, portable light, portable led light. Standard 30 watts led and 50 watts led are available to bring brightness for job sites.

- > Movable tripod fixed bracket to accommodate the light anywhere you want
- > Maximum led 50 watts with energy-saving performance
- > Emergency lasting up from 4 hours to 8 hours with back-up battery

### Technical Datasheet

Rated Voltage	DC 16.8V
Charging Voltage	100-240V AC,50/60Hz
Wattage (W)	30W / 50W
Battery Capacity	Lithium 16.8V,10Ah
Working Time	4-8H
Charging Time	5H
Function	Working Light / Intense Light
IP Grade	Wet Locations, Type 4X, IP67
Ambient Temperature	-40°C~ +55°C /-40° F ~ +131° F

## PHL Series Portable Handheld Spotlight

LED 27W	100-240V AC
DC 7.6V	6H Emergency
Type 4X,IP67	-20 °C ~ +50 °C



### Applications

- Used as work light for machining areas, processing area, test center, control room, railway working area, construction site, workshop.
- The battery operated flood lights last normally 50,000 hours, depending on the brightness, watts, emergency last time, charging and discharging times, the last lifespan diversified respectively more or less. SUREALL PHL series portable handheld spotlights provide temporary lighting for large areas with back-up emergency battery for factory and workshop.
- Portable flood light are applied for area where harsh conditions exists below:
  - > Workshop of all safety material production, processing machines, maintenance area
  - > control rooms, electrical circuits distribution box areas, laboratory area
  - > Large machines parking lot, transportation areas, outdoor warehouse.

### Features

Designed with compact size and high lumens features, portable handheld spotlight PHL series provide temporary lighting as a portable lighting, portable light, portable led light, rechargeable flood light, spotlight flashlight, portable flood light, portable led work light, portable outdoor lights, rechargeable led floodlit, brightest handheld spotlight. Enclosed by rated IP67 housing, this battery operated spotlights can be as well suitable for usages in corrosive, wet, dusty conditions.

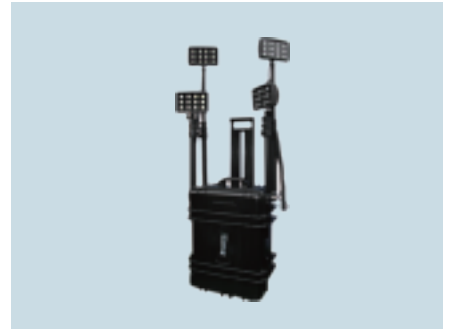
- > IP67 rated portable lighting, water-proof and resist to damp, moisture and wet location
- > Convenient bringing to workplace, hand hold and light-weight

### Technical Datasheet

Rated Voltage	DC 7.4V
Charging Voltage	100-240V AC,50/60Hz
Wattage (W)	27W
Battery Capacity	7.4V 10000mah 18650 Li-ion battery
Emergency Time	16H
Charging Time	6H
Function	Working Light / Intense Light / Signal Light
IP Grade	Wet Locations, Type 4X, IP67
Ambient Temperature	-20°C~ +50°C /-4° F ~ +122° F
Size & Weight	275x200x250mm, 1.4Kg

## PWL Series Portable Work Light

LED 36Wx2 /36Wx4	100-240V AC
DC 14.8V	10-12H Emergency
Type 4X,IP67	-40 °C ~ +50 °C



### Applications

- Used as work light for machining areas, processing area, test center, control room, railway working area, construction site, workshop.
- A battery operated portable light is handheld emergency work light widely used for industrial processing shop, maintenance with rechargeable battery. This portable light can be powered by plug-in socket or emergency battery based on your real application environment. SUREALL PWL series is your brilliant portable lighting solution for specific work-bench or table.
- Portable work light are applied for area where harsh conditions exists below:
  - > Workshop of general material relative to machining, assembly line, processing, test area
  - > Power distribution room, raw material workshop, semi-finished material and finished material storage areas
  - > Outdoor machines parking lot, garage, indoor and outdoor warehouse

### Features

To meet higher watts portable lighting requests, SUREALL portable work light PWL series is designed with two or four 36w lighting heads for usage of spotlight and flood light. This portable work light can be also worked as portable light, rechargeable led light, portable led light, rechargeable flood light, portable luminaire, portable flood light, portable light tower, rechargeable led spotlight, emergency spotlight, portable field light, portable led flood light, portable rechargeable light.

- > Big lumens output with maximum 4x36w LED lamp for temporary maintenance
- > High battery volume to last up to 30 hours for basic working module

### Technical Datasheet

Rated Voltage	DC 14.8V	
Charging Voltage	100-240V AC,50/60Hz	
Wattage (W)	36Wx2	36Wx4
Battery Capacity	Lithium 14.8V,24Ah	Lithium 14.8V,33Ah
Working Time	5/8/30H	5/13/30H
Charging Time	≤12H	≤10H
Function	Working Light / Intense Light / Low Light	
IP Grade	Wet Locations, Type 4X, IP65	
Ambient Temperature	-40°C ~ +55°C / -40° F ~ +131° F	
Size & Weight	565x425x(1100/1900)mm, 23Kg	670x510x(1100/2000)mm, 26Kg

# AWL-L Series Low Intensity Aircraft Warning Light

LED 2.5W	110-240V AC
32.5cd	DC 48/36/24/12V
Type 4X,IP66	-40 °C ~ +75 °C



## Applications

- Telecommunication towers, chimneys, smoke stacks, high-rise buildings, large bridges, port machinery, construction machinery, wind turbines and other industries.
- Obstruction light, or aircraft warning light, is a light specifically designed to illuminate the position of tall buildings, high-rise tower, and any other high height objects to avoid the interfere with aircrafts. SUREALL AWL-L series low intensity aircraft warning light can be installed in low height of buildings to remind the aircrafts the existence of obstruction.
- All structures that occupy airspace need to be lighted as an obstruction to aircraft, low intensity obstruction light can be used for typical applications as below:

Airports, cranes, radar systems, flag poles	Tower: telecom and base station towers, radio and television towers
Buildings: towers, residences, plazas, shopping malls	Bridges: suspension bridges, railway bridges
Factory: factory and power plant chimneys	Power: electric power transmission lines and wind turbines

## Features

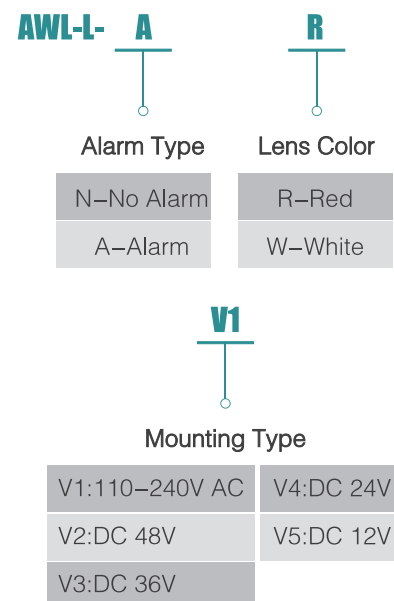
Designed for application for various fields of the air force, low-intensity aircraft warning light AWL-L series is made of UV resistant plastic material lamp shade with stable led flashlight output to be used as warning light for aircraft. This aviation light can be as well used as aviation obstruction light, obstruction light, aviation light for towers, led obstruction light, aircraft warning lights for buildings. Low intensity led is suitable for low height building such as large port, bridge and big machines, chimney for thermal power plant, coking plant and chemical plant.

- > Low intensity light less than 32.5cd for top of low height obstruction
- > Light shade color is transparent and red for option for alarm function

## Technical Datasheet

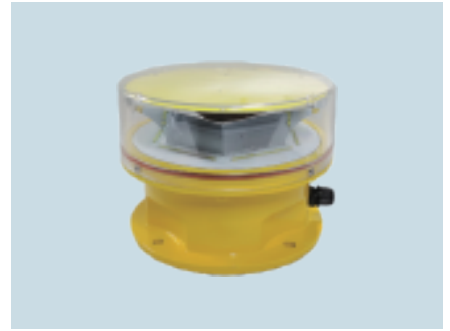
Rated Voltage	110–240V AC 50/60Hz DC 48/36/24/12V
Wattage(W)	2.5W
Lens Color	Red / White
Intensity	≥32.5cd, others optional (10cd, 100cd, etc)
Horizontal Output(degrees)	360
Vertical Divergence(degrees)	≥ 10
Flash Characteristics	Steady–burning/20/30/60 adjustable
IP Grade	Wet Locations, Type 4X, IP66
Ambient Temperature	-40°C ~ +75°C / -40° F ~ +167° F
Cable Entry	3/4 inch pipe thread as standard. 1inch as option
Dimension (mm) & Weight (Kg)	Φ90 × 130mm, 0.3Kg

## Catalogue Numbering System



## AWL-M Series Medium Intensity Aircraft Warning Light

LED 20W	110-240V AC
2000cd	DC 48/36/24/12V
Type 4X,IP66	-40 C ~ +55 C



### Applications

- Telecommunication towers, chimneys, smoke stacks, high-rise buildings, large bridges, port machinery, construction machinery, wind turbines and other industries.
- The red lights on top of tall buildings are aircraft warning light, the reason why red light is because aircraft warning light normal produce red light to warn and remind the aircrafts the location of the tall buildings and how to control the distance to the tall buildings, SUREALL AWL-M series medium intensity aircraft warning light can provide red color light for warning function.
- All high-rise buildings can bring potential dangers for aircrafts, so those buildings need to be lighted as an obstruction to pilots, medium intensity obstruction light can be used for typical applications as below:
  - > Coal chimney, oil refineries, power plants, hyperbolic cooling towers
  - > Water towers, storage tanks, similar structures
  - > Power lines, transmission lines, telecommunication towers
  - > Offshore oil & gas platforms, lighthouses
  - > Meteorological towers, wind measurement towers

### Features

Valued light intensity can reach up to 2000cd, medium-intensity aircraft warning light AWL-M series have the widest application range for tall structures as warning lights for air planes. Middle intensity led is suitable for middle height building such as tower cranes, wind turbine generator set, high mast pole, iron tower for electrical power, communication and microwave. This aviation light are worked as aviation light, obstruction lights, aviation light for towers, led obstruction light, tower obstruction light, faa light, airport obstructer lights.

> Medium intensity light up to 2000cd for top of medium height obstruction

### Technical Datasheet

Rated Voltage	110-240V AC 50/60Hz
	DC 48/36/24/12V
	20W
	2000cd
	360
	3
	40-60 flashes per minute
	Wet Locations, Type 4X, IP66
	-40°C ~ +55°C / -40° F ~ +131° F
	3/4 inch pipe thread as standard, 1inch as option
	190 × 190 × Ø 12
	229 × 229 × 168mm, 3Kg

### Catalogue Numbering System

<b>AWL-M-</b>	<b>N</b>	<b>R</b>
	Alarm Type	Lamp Color
	N-No Alarm	R-Red
	A-Alarm	W-White
<b>20</b>	<b>V1</b>	
Flash Rate	Voltage	
20-20FPM	V1:110-240V AC	
30-30FPM	V2:DC 48V	
40-40FPM	V3:DC 36V	
60-60FPM	V4:DC 24V	
	V5:DC 12V	

## AWL-H Series High Intensity Aircraft Warning Light

LED 30W	110-240V AC
>2000cd	DC 48/36/24/12V
Type 4X,IP66	-40 C ~ +70 C



### Applications

- Telecommunication towers, chimneys, smoke stacks, high-rise buildings, large bridges, port machinery, construction machinery, wind turbines and other industries.
- 200 feet, according to lighting requirements of Federal Aviation Administration (FAA) and International Civil Aviation Organization (ICAO) lighting requirements, all structures including towers exceeding 200 feet above ground level (AGL) must be appropriately marked with aircraft warning light. SUREALL AWL-H series high intensity aircraft warning light can be used for almost 500 feet height.
- All high-rise buildings can bring influence for the airspace for aircrafts, so those buildings need to be lighted with white light as an obstruction warning to pilots, high intensity obstruction light can be used for typical applications as below:
  - >Towers, poles, antenna, skeletal Structures
  - >Chimneys, flare Stacks, smoking stacks
  - >Skyscraper, buildings, bridges, prominent obstructions
  - >Radio, television, broadcasting, cell towers
  - >Onshore or offshore wind turbines
  - >Cranes, drills, construction equipment

### Features

SUREALL high intensity aircraft warning light can produce more than 2000cd light intensity at night which can meet the warning lighting requests high buildings, especially for building around the airport. Certificated under ICAO and FAA standard, this aircraft warning light can be worked as airport obstruction lights, aviation light for building, aviation light, led obstruction light, obstruction light when high height buildings exist to withstand any extreme weather outdoor all around the world.

> High intensity light more than 2000cd for top of high height obstruction

### Technical Datasheet

Rated Voltage	110-240V AC 50/60Hz
	DC 48/36/24/12V
Wattage(W)	30W
Intensity	200,000cd ± 25%(Daytime), ≥20000cd(Twilight), ≥2000cd(Night)
Horizontal Output (degrees)	90
Vertical Divergence (degrees)	3-7
Flash Characteristics	40-60 flashes per minute
IP Grade	Wet Locations, Type 4X, IP66
Ambient Temperature	-40°C ~ +70°C / -40° F ~ +158° F
Mounting	470 × 100 × 12
Dimension (mm) & Weight (Kg)	508 × 186 × 236mm, 10Kg

### Catalogue Numbering System

**AWL-H-**

**N**

Alarm Type

N-No Alarm

A-Alarm

**20**

Flash Rate

40-40FPM

50-50FPM

60-60FPM

**V1**

Voltage

V1:110-240V AC

V3:DC 36V

V5:DC 12V

V2:DC 48V

V4:DC 24V







To Be SURE  
To Be ALL



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