

LiBay & LiBay Lighting with sensor

LiBay

GK-090/120/150/200-AW-XX-L-YY



For Driver

Description:

LiBay is a unique flexible lighting that can be used as normal high bay light but also used as warehouse light. We supply narrow, medium or wide beam angle. 30*70-degree and 70*120-degree are designed for warehouse, aisle. 120*120-degree are suitable for gymnasium, factory, high bay appliance. With modular design, LiBay can be specified in two modules 90W, three modules 120W, four modules 150W, five modules 200W.

LiBay Lighting with sensor which integrate Motion detector and LED power supply. The products supply a simple energy-saving solution for users. As sensor and lamp are integrated together, it is very easy to mount and save labor cost. With innovative control technology, detection distance can be longer, up to 18m.

Features:

1. LiBay and LiBay lighting with sensor optional ;
2. 30*70-degree, 70*120-degree, 120*120-degree for different applications ;
3. Modular design, 90W-240W are available ;
4. Low glare, <25 ;
5. Ceiling installation and suspension installation ;
6. Black and silver color optional ;
7. UL, DLC approval ;
8. Operating environment temperature: -20 °C - 35°C ;
9. Corrosion-proof grade: no protection.



Technical parameters (LiBay):

Model	CCT	Color	Lumen(lm) (±10%)	Beam (angle°)	LED Type	Voltage, Frequency	Power (±10%)	Max. current (A)	CRI	PF	Replace HPS/MH
GK-090-AW-W-L-D10/D13	5000K	White	9730	30°*70°	SEOUL 1919	AC100-277V 50/60Hz	90W	1.1A	> 70	> 0.9	250W
GK-090-AW-NW-L-D10/D13	4000K	Neutral white	9300								
GK-090-AW-WW-L-D10/D13	3000K	Warm white	8560								
GK-090-AW-W-L-D11/D14	5000K	White	10670	70°*120°							
GK-090-AW-NW-L-D11/D14	4000K	Neutral white	11200								
GK-090-AW-WW-L-D11/D14	3000K	Warm white	9450								
GK-090-AW-W-L-D12/D15	5000K	White	10810	120°*120°							
GK-090-AW-NW-L-D12/D15	4000K	Neutral white	10330								
GK-090-AW-WW-L-D12/D15	3000K	Warm white	9590								
GK-120-AW-W-L-D10/D13	5000K	White	13400	30°*70°	SEOUL 1919	AC100-277V 50/60Hz	120W	1.4A	> 70	> 0.9	400W
GK-120-AW-NW-L-D10/D13	4000K	Neutral white	12800								
GK-120-AW-WW-L-D10/D13	3000K	Warm white	11470								
GK-120-AW-W-L-D11/D14	5000K	White	14130	70°*120°							
GK-120-AW-NW-L-D11/D14	4000K	Neutral white	13500								
GK-120-AW-WW-L-D11/D14	3000K	Warm white	12630								
GK-120-AW-W-L-D12/D15	5000K	White	14410	120°*120°							
GK-120-AW-NW-L-D12/D15	4000K	Neutral white	13770								
GK-120-AW-WW-L-D12/D15	3000K	Warm white	12630								
GK-150-AW-W-L-D10/D13	5000K	White	16960	30°*70°	SEOUL 1919	AC100-277V 50/60Hz	150W	1.8A	> 70	> 0.9	400W
GK-150-AW-NW-L-D10/D13	4000K	Neutral white	16210								
GK-150-AW-WW-L-D10/D13	3000K	Warm white	14850								
GK-150-AW-W-L-D11/D14	5000K	White	17740	70°*120°							
GK-150-AW-NW-L-D11/D14	4000K	Neutral white	16940								
GK-150-AW-WW-L-D11/D14	3000K	Warm white	15750								
GK-150-AW-W-L-D12/D15	5000K	White	18570	120°*120°							
GK-150-AW-NW-L-D12/D15	4000K	Neutral white	17740								
GK-150-AW-WW-L-D12/D15	3000K	Warm white	15840								
GK-200-AW-W-L-D10/D13	5000K	White	23230	30°*70°	SEOUL 1919	AC100-277V 50/60Hz	200W	2.3A	> 70	> 0.9	750W
GK-200-AW-NW-L-D10/D13	4000K	Neutral white	22190								
GK-200-AW-WW-L-D10/D13	3000K	Warm white	19930								
GK-200-AW-W-L-D11/D14	5000K	White	23780	70°*120°							
GK-200-AW-NW-L-D11/D14	4000K	Neutral white	22680								
GK-200-AW-WW-L-D11/D14	3000K	Warm white	21060								
GK-200-AW-W-L-D12/D15	5000K	White	24160	120°*120°							
GK-200-AW-NW-L-D12/D15	4000K	Neutral white	23080								
GK-200-AW-WW-L-D12/D15	3000K	Warm white	20310								

Note: In the suffix of product model, letter "D" means 1-10V dimming; figures 10/11/12 means black appearance; figures 13/14/15 means silver appearance.



Technical parameters (LiBay Lighting with sensor)

Model	CCT	Color	Lumen(lm) (±10%)	Beam (angle°)	LED Type	Voltage, Frequency	Power (±10%)	Max. current (A)	CRI	PF	Replace HPS/MH
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GK-090-AW-WW-L-S11/S14	3000K	Warm white	9450								
GK-090-AW-W-L-S12/S15	5000K	White	10810	120°*120°							
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GK-120-AW-W-L-S12/S15	5000K	White	14410	120°*120°							
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GK-120-AW-WW-L-S12/S15	3000K	Warm white	12630								
GK-150-AW-W-L-S10/S13	5000K	White	16960	30°*70°	SEOUL 1919	AC100-277V 50/60Hz	150W	1.8A	> 70	> 0.9	400W
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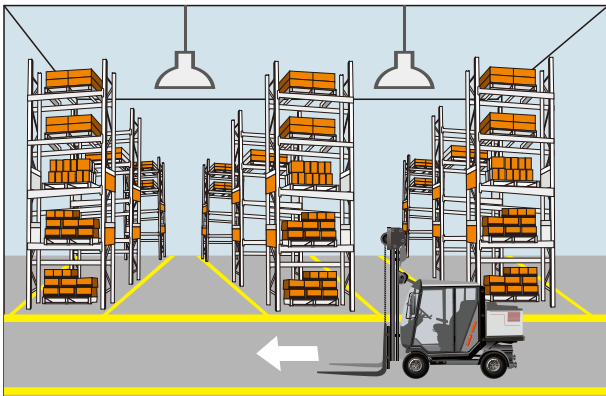
Note: In the suffix of product model, letter “S” means motion sensing; figures 10/11/12 means black appearance; figures 13/14/15 means sliver appearance.



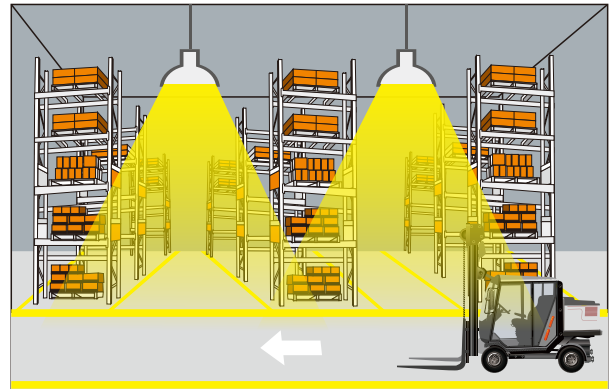
Motion-sensing Function

The LiBay Lighting with sensor is innovative and active motion detectors with HF system 5.8GHz. Motion can be detected through plastic, glass and thin non-metal materials. except the higher mounting height 15m Max. Combination with 1-10V dimmable LED drivers , LiBay Lighting with sensor can achieve 3-step dimming function, which is perfect for use in some areas that requires a light change notice before totally switch off.

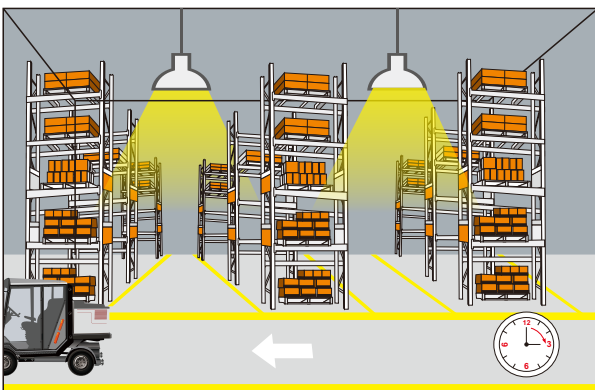
When enable the built-in adjustable daylight sensor, it can read brightness value, the sensor do not switch on the light if with sufficient natural light.



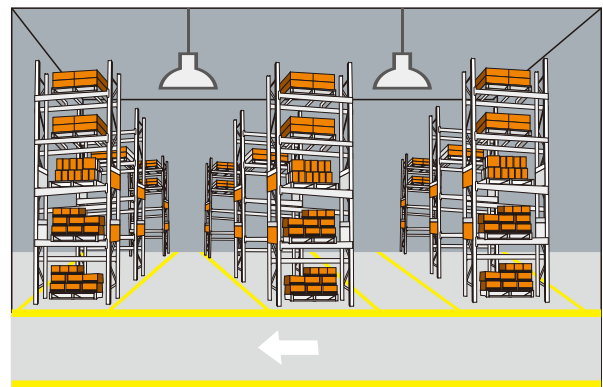
With sufficient ambient light, the sensor does not switch on the lamp.



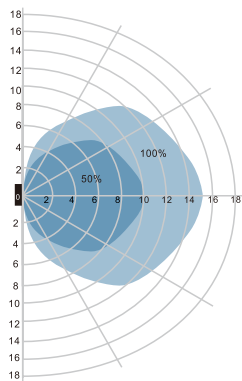
With insufficient ambient light, the sensor switch on the lamp when motion is detected.



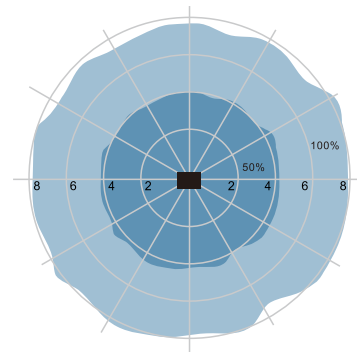
After hold time, the sensor dims the lamp at a low light level if no new motion trigger.



After stand-by period, the sensor switches off the lamp if no motion is detected in its detection zone.



Wall mounting pattern (Unit: m)
Suggested installation height: 1-2m



Ceiling mounting pattern (Unit: m)
Suggested installation height: 3-10m



Sensor function setting

By selecting the combination on the DIP switch, sensor data can be precisely set for each specific application.

ON ↑ □		1	2	
	I	ON	ON	100%
	II	ON	-	75%
	III	-	ON	50%
	IV	-	-	10%

Detection area

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application.

Factory setting: 100%

ON ↑ □		3	4	5	
	I	ON	ON	ON	5S
	II	-	ON	ON	30s
	III	ON	-	ON	90s
	IV	-	-	ON	3min
	V	ON	ON	-	20min
VI	-	-	-	+∞	

Hold time

Refers to the time period the lamp remains at 100% illumination after no motion detected.

Factory setting: 3min

ON ↑ □		6	7	8	
	I	ON	ON	ON	0s
	II	-	ON	ON	5S
	III	ON	-	ON	5min
	IV	-	-	ON	10min
	V	ON	ON	-	30min
	VI	-	ON	-	1h
VII	-	-	-	Disable	

Stand-by period

Refers to the time period the lamp remains at a low light level before it completely switches off in the long absence of people. When set to "+∞" mode, the low light is maintained until motion is detected.

Factory setting: 5S

ON ↑ □		1	2	3	4	
	I	-	-	ON	ON	2Lux
	II	-	-	-	ON	5Lux
	III	-	ON	ON	-	10Lux
	IV	-	-	ON	-	25Lux
	V	-	ON	-	-	50Lux
	VI	ON	-	-	-	100Lux
VII	-	-	-	-	Disable	

Daylight sensor

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold. When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient level.

Note that daylight sensor is active only when lamp totally switches off.

Factory setting: Disable

ON ↑ □		5	6	
	I	ON	ON	50%
	II	-	ON	30%
	III	ON	-	20%
IV	-	-	10%	

Stand-by dimming level

The low light level you would like to have after the hold time in the long absence of people.

Factory setting: 20%



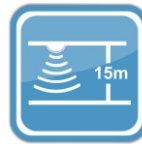
Max. 8M



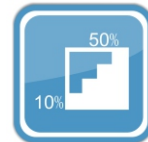
Light Sensor



Hold Time
10s-30min



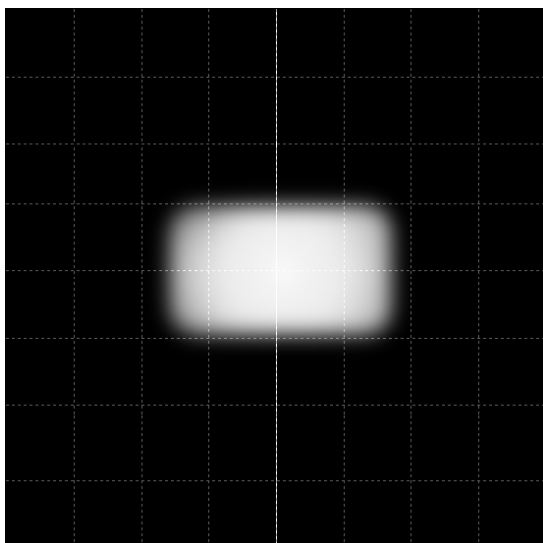
Mounting Height
15m Max.



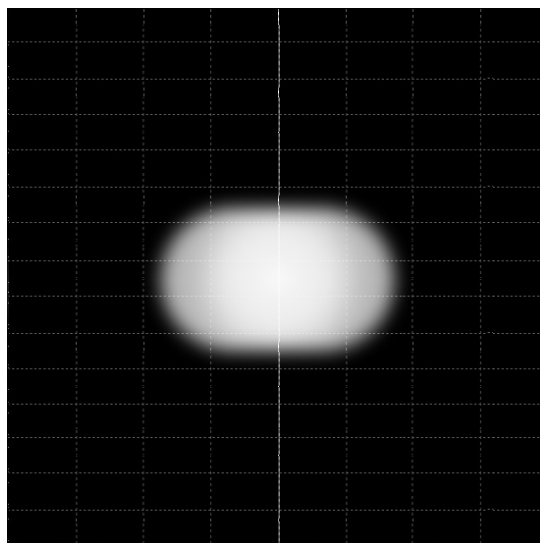
Automatic
Dimming



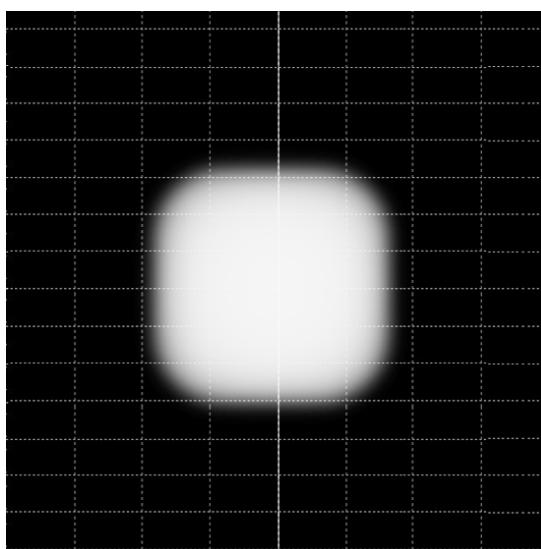
Different beam angle:



30°*70°



70°*120°



120°*120°

30*70-degree and 70*120-degree are designed for warehouse, aisle. 120*120-degree are suitable for high bay appliance.



Adopt LIBAY 70*120-degree lens on the left, uniform light spot, ground LUX is 40% higher than that of traditional round high bay light.



Adopt round 45-degree high bay light, there is obvious dark area between lights.



Application:

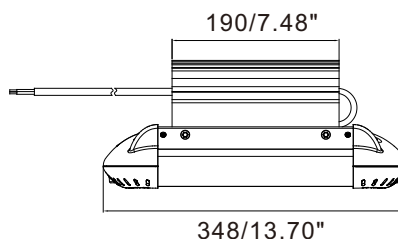
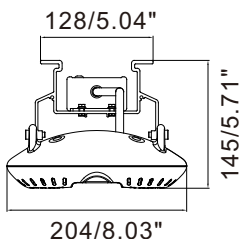
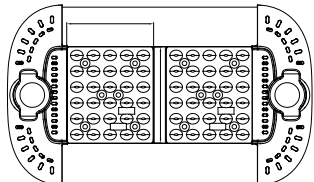
Warehouse, distribution/logistic center, aisle lighting, gymnasium, factory, high bay appliance.



LiBay Dimension(mm):

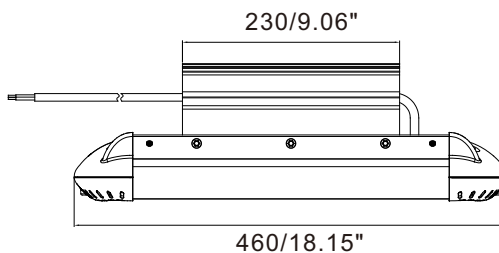
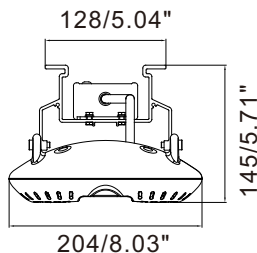
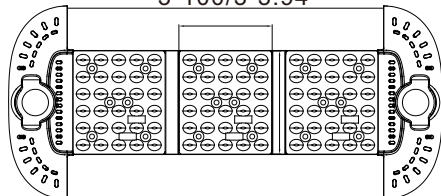
90W

2-100/2-3.94"



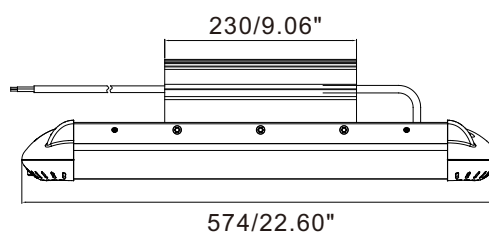
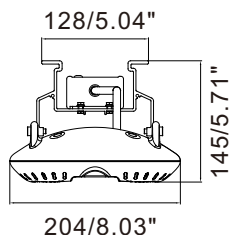
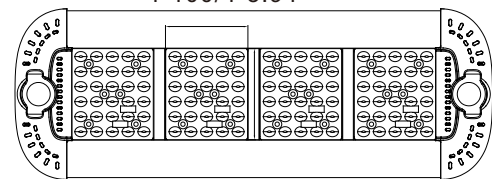
120W

3-100/3-3.94"



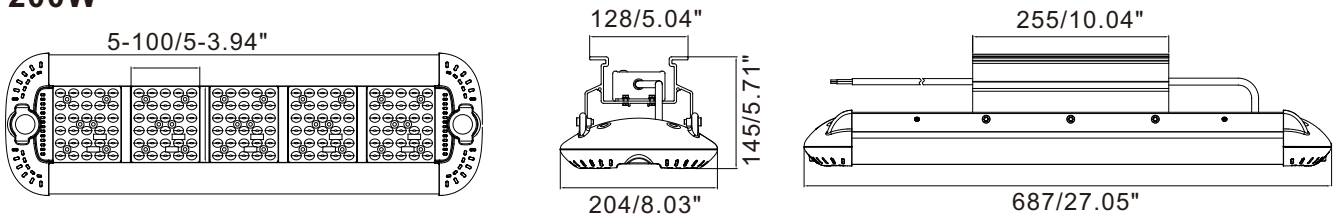
150W

4-100/4-3.94"



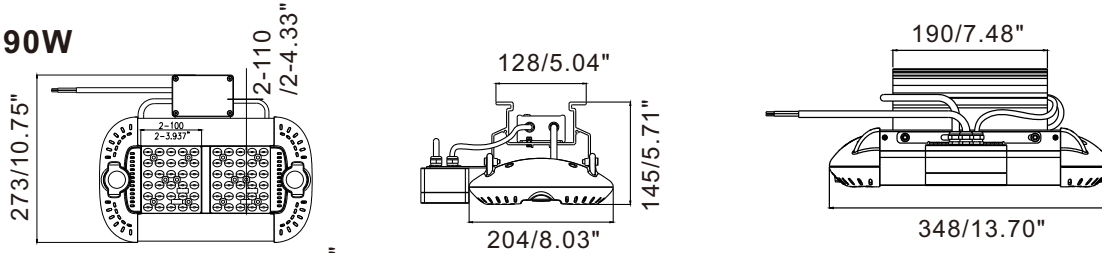


200W

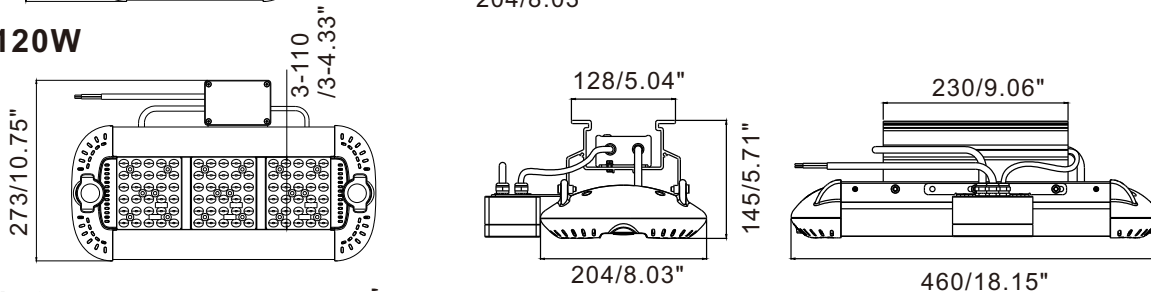


LiBay Lighting with sensor Dimension(mm):

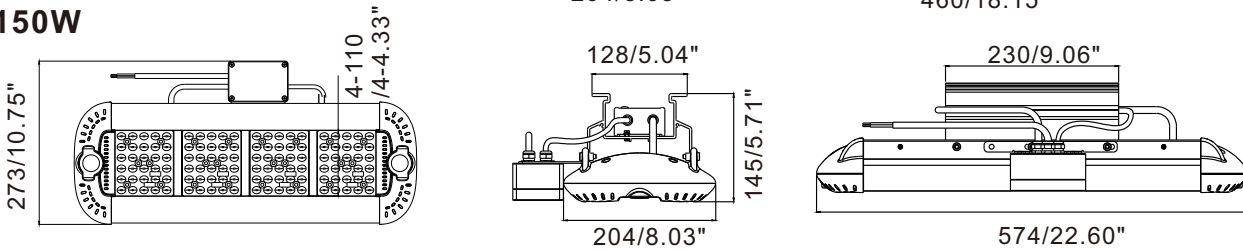
90W



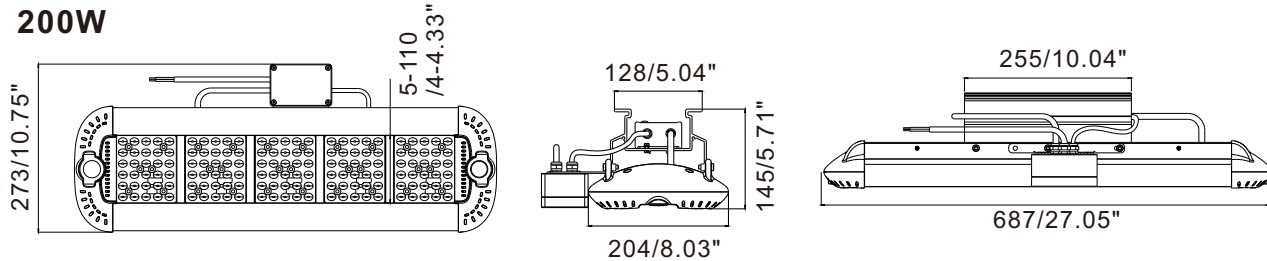
120W



150W

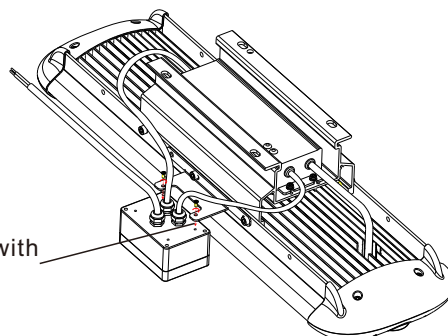


200W



Installation Diagram of Sensor

Fasten sensor on the bracket with St2.9 self-tapping screws.





Packing information :

Power	Dimension of outer carton	Net weight	Gross weight (include ceiling installation plate)	Accessories (ceiling installation plate)	Optional (suspendent bracket)
90W	450X280X190mm (1PCS/Carton)	3.8Kg	5.3Kg	1.1Kg	0.15Kg
120W	560X280X190mm (1PCS/Carton)	5.1Kg	6.5Kg		
150W	670X280X190mm (1PCS/Carton)	5.9Kg	7.6Kg		

Installation requirement:

- 1.The lamp can only be installed downward vertically,otherwise cooling and waterproof performance may be affected;
2. Power off before installation;
3. Make sure the installation material can endure the lamp weight; fix ceiling installation panel on installing surface with M10 expansion bolts, and the bolt head exposition can't exceed 10mm ;
4. Insert electrical cavity into ceiling installation panel (align locking bolt holes), then fasten lamp with M8 bolt+spring washer;
5. If choose suspendent installation method, please confirm there are hangers first, fix suspendent bracket in the reserved hole of radiator, and fasten it with M6 nut, finally hook the suspendent bracket on the hanger.
6. Connect lamp wire to matched power wire, and seal the joint with insulation.

Notice :

- 1.Please first read the product specification carefully, make sure the using environment conform to specification, then it can be used;
- 2.Please confirm the input voltage, frequency before use;
- 3.This product must be installed by professionals;
- 4.If there is any damage to the power wire or shell of the product, it should be taken as defective product and do not use it;
- 5.Dangerous high voltage, non-professionals are not allowed to maintain the product;
- 6.If external soft cable or soft wire of the light is damaged, it should be replaced by manufacturer or service agent or personnel with similar qualification to avoid danger;
- 7.Corrosivity in the using environment can't exceed the anti-corrosion grade regulation, if you have special requirement, please first consult with our company.