

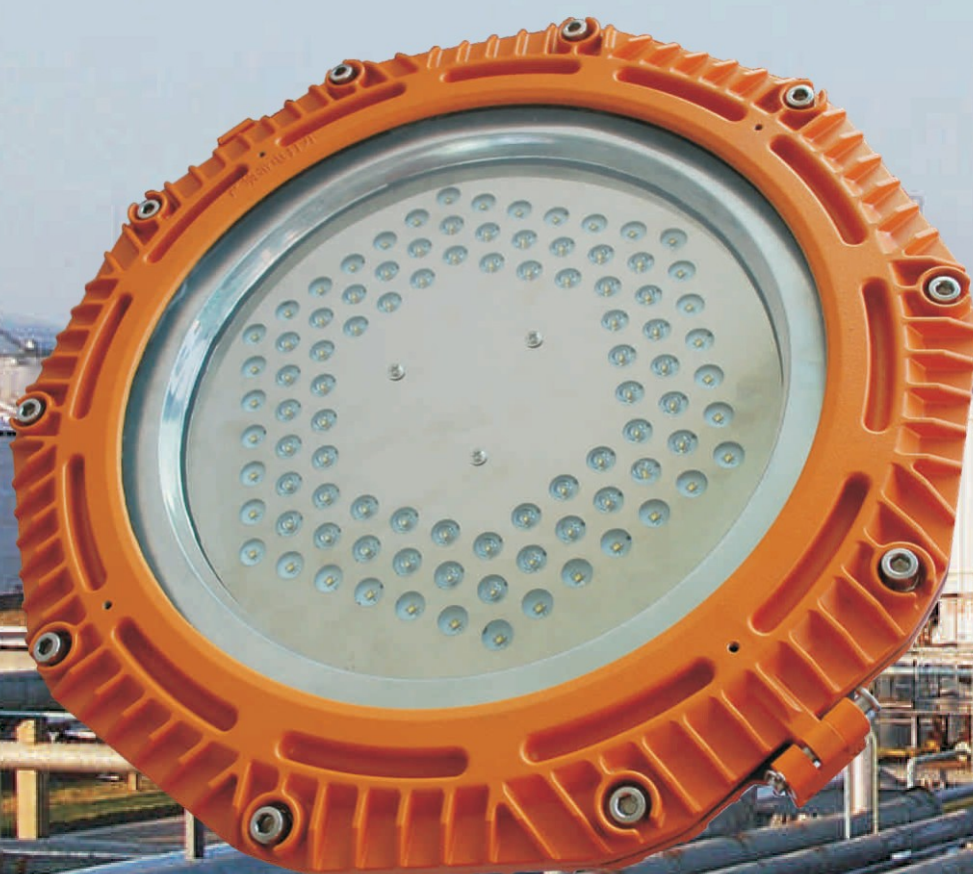


Frog Series

KHJ-Safety Lighting



Group II Zone I



V2.0

★ **KHJ-Explosion Proof LED Floodlight**

★ INTRODUCTION



Features and benefits

1. Energy saving. Reduce the number of luminaires needed, providing excellent luminaires' efficiency more light where you need it.
2. Anti-glare reduces glare in applications where the user may have direct visual contact with the light source.
3. Shock and vibration resistant tempered glass, reduces the risk of premature failure.
4. OSRAM LED source. High efficiency lumen output and high CRI.
5. Driver module assembly High efficiency LED drivers are designed to provide reliable operation in even the harshest environments.
6. High strength aluminum alloy housing, can endure 20J impact. IP66 can be used wet locations robust construction suitable corrosive applications.
7. Adjusting plate, customer can adjust different angles.
8. 150W and 120W available. Optional luminous intensity distribution for different applications.
9. Ambient temperature from -40°C to 55°C.

Application:

- Petroleum Industry, Petrochemical Industry, Metallurgical Industry, Power Generation Industry, Power Transmission Industry, Railway Industry, Public Security and Fire Fighting, Stadium Lighting, Machine Manufacturing, etc.
- Drilling platform, single point moorings, tank battery, work over platform, production platform, field tank, manifold center, pumping station, gasoline station, transformer station, warehouse, etc.
- Group II Zone I.

Executive standard:

1. IEC 60598-1 Luminaires - Part 1: General requirements and tests.
2. IEC60598-2-1 Luminaires - Part 2 : Particular requirements. Fixed general purpose luminaires.
3. IEC61000-3-2 Electromagnetic compatibility (EMC) - Part 3-2:Limits – Limits for harmonic current emissions.
4. EN55015 Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment



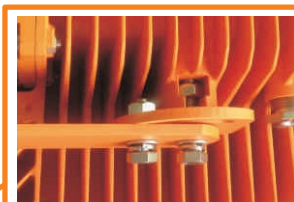
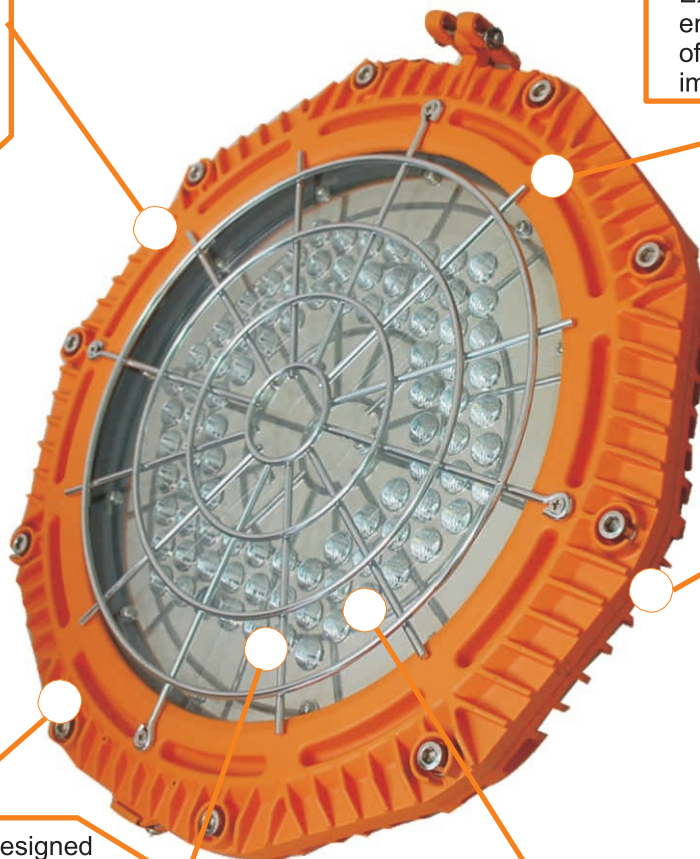
★ CHARACTERISTIC DETAILS



Terminal compartment is isolated with the led source compartment. Enhance isolation, ensure safety. More easy for connection and maintenance.



Explosion proof aluminum alloy enclosure, high performance of anti- impact. Can endure 20J impact.



Adjusting plate, customer can adjust different angles.



Anti-off designed screw to reduce the time for installation and maintenance.

OSRAM LED source, high efficiency and lumen output.



The led is clung to the enclosure, which can make the heat sink very fast, low down the junction temp.



H3V3



H4V4



H5V5



H6V6



H6V4



FW

Characteristic details

★ PERFORMANCE PARAMETER



Product Definition

Ex-	K	F	XXX	X	XXXX	XX
Type	Brand	Series	Power	Voltage	Candela Distribution	CCT
EX-Explosion Proof	K-KHJ	F-Frog	120-120W 150-150W	A-AC90~180V Default-AC180~270V	H3V3 H4V4 H5V5 H6V6 H6V4 FW	WM-2800~3300K NH-4700~5400K CH-6000~7100K

Electrical parameters

Product type	Rated input voltage (V AC)	Rated input current A	Voltage frequency (Hz)	Rated power (W)	Input current (mA)	PF
Ex-KF120	180 277	0.4 0.7	50/60	120	400	>0.95
Ex-KF120A	90 180	0.6 1.4	50/60	120	400	>0.95
Ex-KF150	180 277	0.5 0.9	50/60	150	510	>0.95
Ex-KF150A	90 180	0.8 1.7	50/60	150	510	>0.95

Photometric parameter

Product type	P/N	Temp.	CCT K	CRI	Luminous Flux (lm)
Ex-KF120	Ex-KF120*WM	Warm white	2800-3300	82	9800
	Ex-KF120*NH	Natural white	4700-5400	82	10500
	Ex-KF120*CH	Cool white	6000-7100	70	11500
Ex-KF120A	Ex-KF120A*WM	Warm white	2800-3300	82	9800
	Ex-KF120A*NH	Natural white	4700-5400	82	10500
	Ex-KF120A*CH	Cool white	6000-7100	70	11500
Ex-KF150	Ex-KF150*WM	Warm white	2800-3300	82	12000
	Ex-KF150*NH	Natural white	4700-5400	82	13400
	Ex-KF150*CH	Cool white	6000-7100	70	14400
Ex-KF150A	Ex-KF150A*WM	Warm white	2800-3300	82	12000
	Ex-KF150A*NH	Natural white	4700-5400	82	13400
	Ex-KF150A*CH	Cool white	6000-7100	70	14400

Remarks: *Stands for candela distribution, including H3V3 / H4V4 / H5V5 / H6V6 / H6V4 / FW.

Type	Beam Angle °	Candela Distribution
H3V3	40	A
H4V4	60	B
H5V5	80	C
H6V6	120	D
H6V4	C0-180°:120 C90-270°:60	E
FW	C0-180°:110 C90-270°:120	F

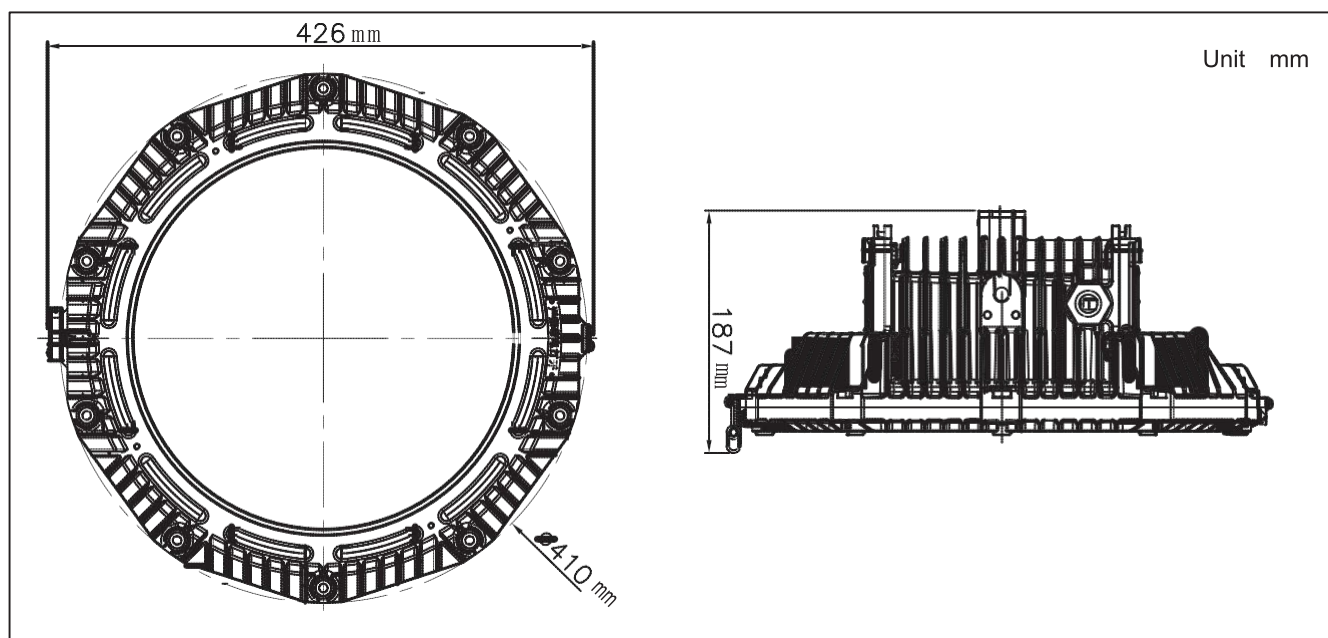
★ PERFORMANCE PARAMETER



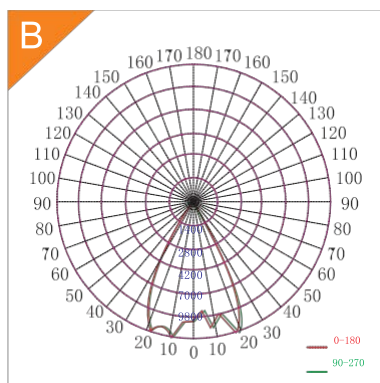
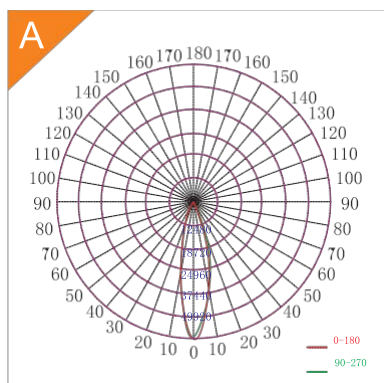
Other Parameters

Product Type	Size (mm)	Weight (Kg)	Ambient Temp. (°C)	Max. Surface Temp. (°C)	IP Code	Insulation
Ex-KF120	426×410×187	13.5	-40 +55	73	IP66	I
Ex-KF120A	426×410×187	13.5	-40 +55	73	IP66	I
Ex-KF150	426×410×187	13.5	-40 +55	73	IP66	I
Ex-KF150A	426×410×187	13.5	-40 +55	73	IP66	I

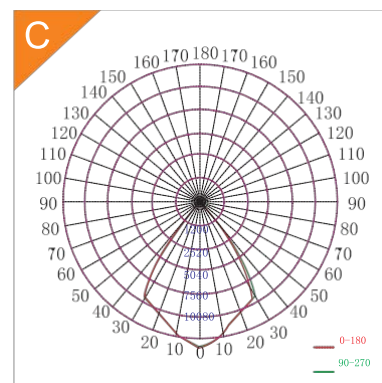
★ SIZE



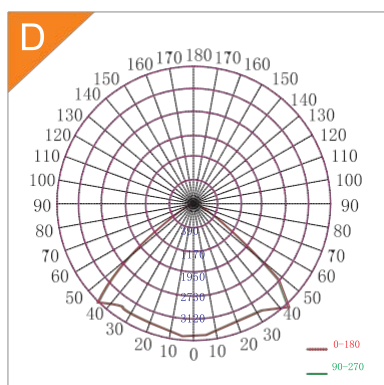
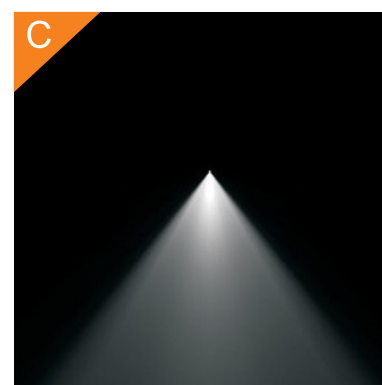
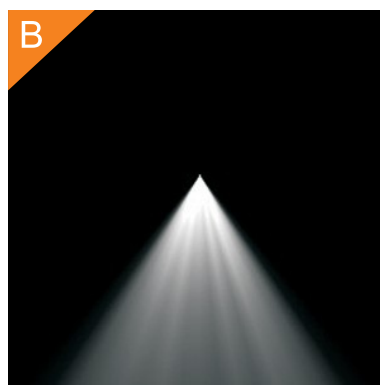
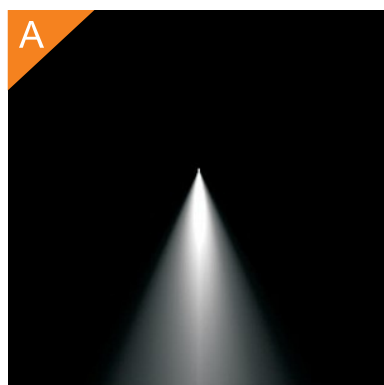
★ CANDELA DISTRIBUTION



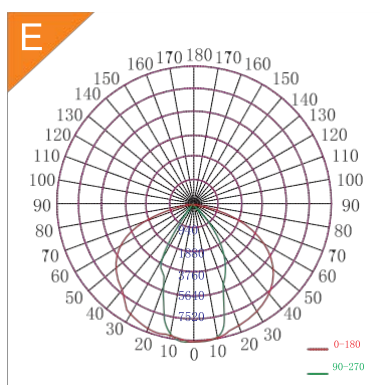
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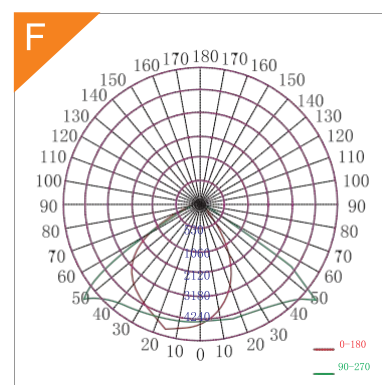
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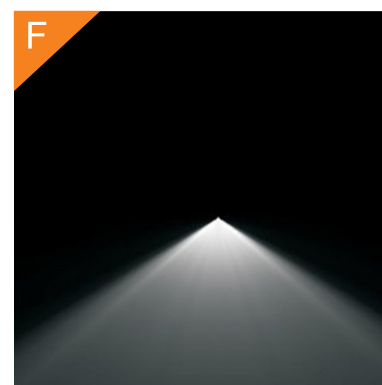
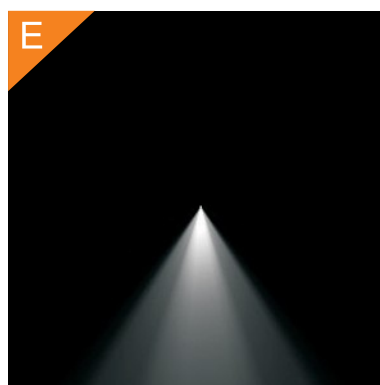
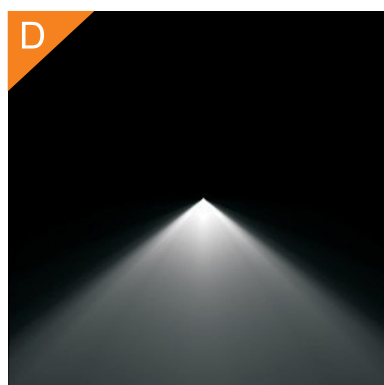
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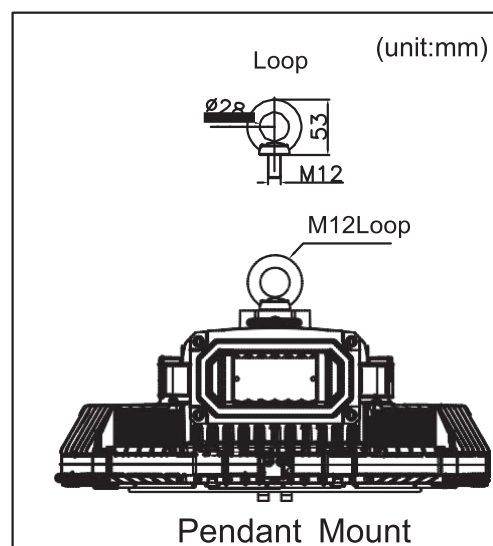
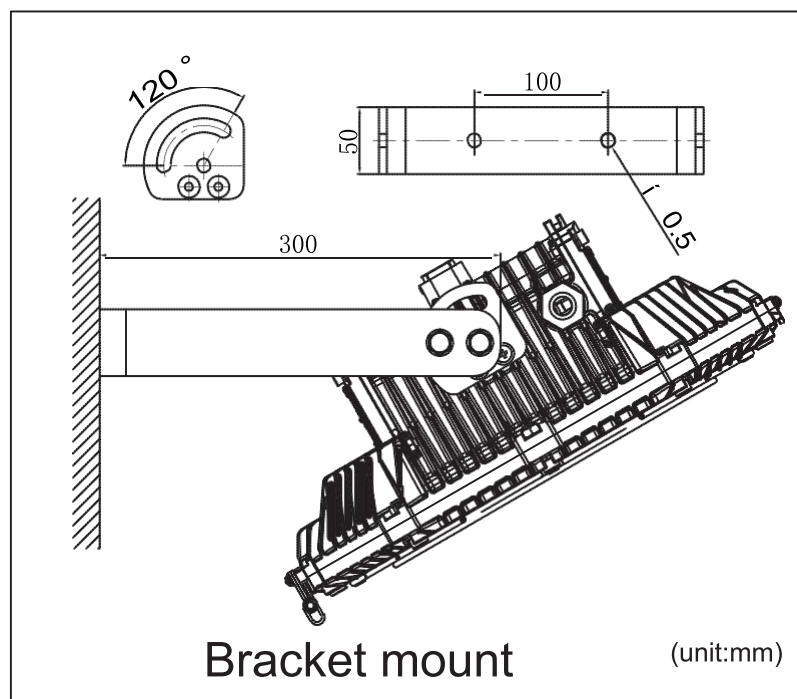
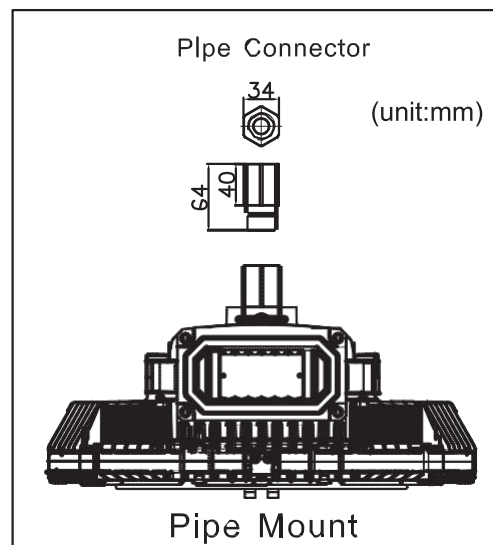
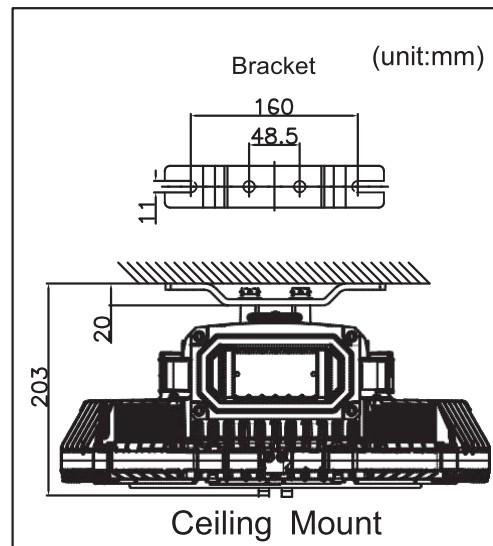
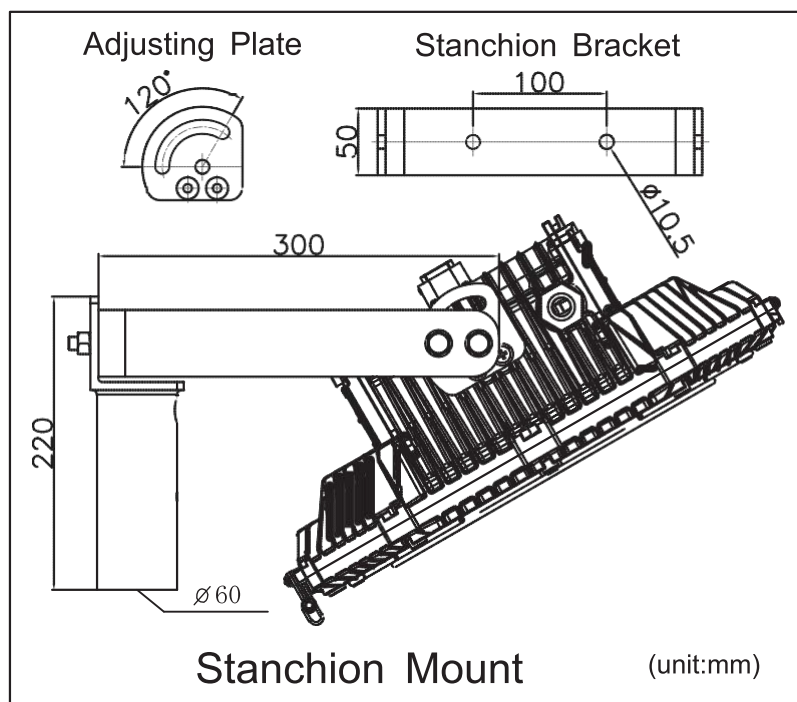
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★ INSTALLATION METHOD



Installation method












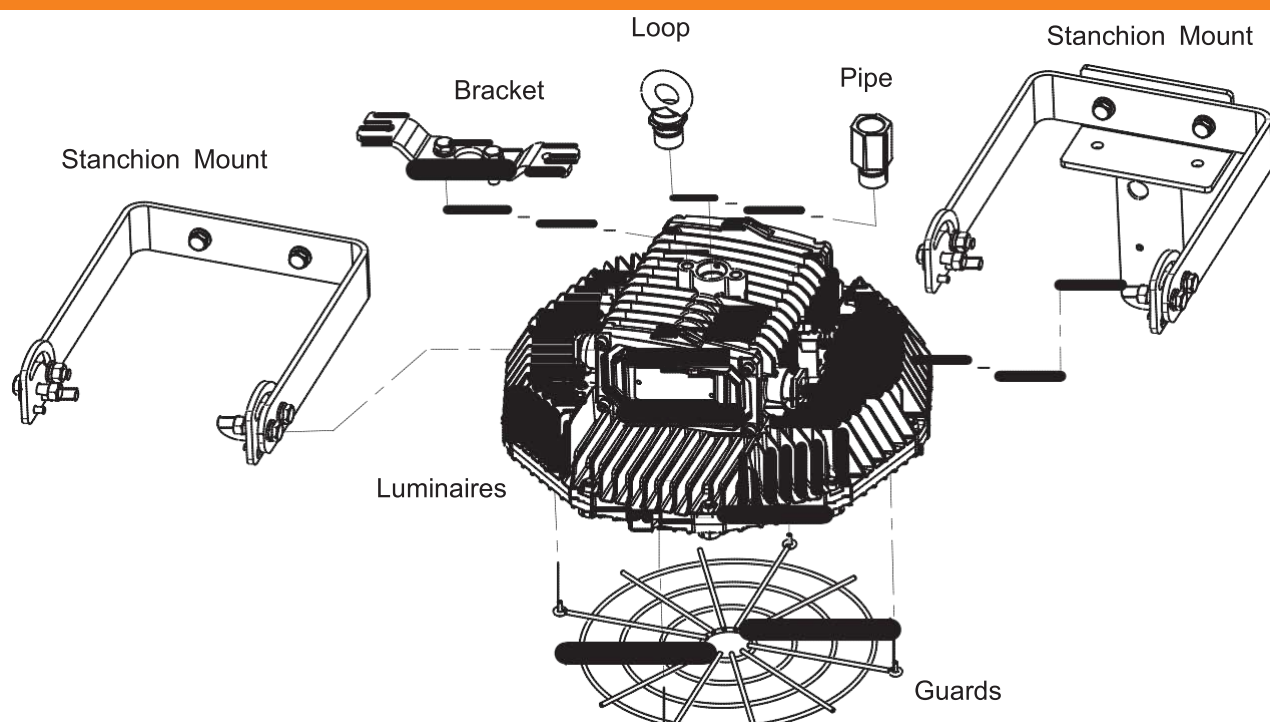
★ ACCESSORIES



optional parts

NO.	Installation accessories	Picture	Material	Weight (Unit Kg)	QTY
1	Bracket		Q235	0.4	1
2	Stanchion Bracket		Q235	2.26	1
3	Stanchion Bracket		Q235	1.63	1
			Q235	2.26	1
4	Loop		45#+SUS304	0.26	1
5	Pipe		SUS304	0.26	1
6	Guards		Q235	0.38	1

Accessories



Caution

1. To avoid the risk of fire, explosion, or electric shock, this product should be installed, inspected, and maintained by a qualified electrician only, in accordance with all applicable electrical codes.
2. To avoid electric shock:
Be certain electrical power is OFF before and during installation and maintenance.
Luminaire must be supplied by a wiring system with an equipment grounding conductor.
3. To avoid burning hands:
Make sure lens and housing are cool when performing maintenance.
4. To avoid explosion:
 - 1) Make sure the supply voltage is the same as the luminaire voltage.
 - 2) Do not install where the marked operating temperatures exceed the ignition temperature of the hazardous atmosphere.
 - 3) Do not operate in ambient temperatures above those indicated on the luminaire nameplate.
 - 4) Use proper supply wiring as specified on the luminaire nameplate. All gasket seals must be clean.
 - 5) Before opening, electrical power to the luminaire must be turned off. Keep tightly closed when in operation.

Package Check

1. Check the carton and all the components according to the packing list.
2. Make sure the product is in good conditions.

Transportation:

Please keep this product from heavy mechanical shock, exposure to strong sunshine, throwing, rolling and stress during transport

Storage:

Keep in dry, clean and well-ventilated, non-corrosive medium warehouse, the ambient temperature should be -40 °C to 55 °C.

After-sales service

Installation and maintenance must be according to the instruction.
If customer cannot deal with it by themselves, please contact with sales department.

Contact

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