

Polarbear Series

LED Explosion Proof Light



Ex Mark: Ex nR II CT4 or T5 or T6 Gc
Ex tc III CT130 °C or T95 °C or T80 °C Dc IP 66
ATEX Certificate No.: LCIE 14 ATEX 1014 X
IECEX Certificate No.: IECEX CQM 13.0044X

★ **KHJ-LED Explosion Proof Lighting**

Features and benefits

1. Energy saving. Reduce the number of luminaires needed, providing excellent luminaires efficacy and 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 efficacy lumen output and high CRI.
5. Driver module assembly High efficacy 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 in wet locations, robust construction suitable corrosive applications.
7. Adjusting plate, customer can adjust different angles. intensity distribution for different applications.
8. 80W, 120W, 160W, 200W 240W available. Optional luminous
9. Ambient temperature from -40°C to 55°C.

Application:

Typical applications include Gas station, manufacturing plants, and certain chemical and petrochemical processing facilities, sewage treatment plants, off-shore and dockside installations, garages and storage facilities.

Executive standard:

- | | |
|---------------------|----------------------------|
| • IEC 60079-0:2011 | • EN 60079-31:2009 |
| • IEC 60079-15:2010 | • EN 60598-1:2008+A11:2009 |
| • IEC 60079-31:2008 | • EN 55015:2013 |
| • EN 60079-0:2012 | • IEC 62321:2008 |
| • EN 60079-15:2010 | |

Division:

- ATEX Zone 2 & 22
- Class I Division 2 Groups A, B, C, D
- Class II Division 2 Groups F, G
- Class III Division 2



Certifications & Ratings:

- Ex nR IIC T4 or T5 or T6 Gc;
- Ex tc IIIC T135°C or T95°C or T80°C Dc IP 66
- ATEX Compliant
- IECEx Compliant
- ABS Compliant
- CE Compliant
- RoHS Compliant
- IP 66 Rated

★ CHARACTERISTIC DETAILS



The LED is clung to the enclosure, which can make the heat dissipation very fast. Lower the junction temp.



External constant current driver, easier for maintenance, and better for heat dissipation.



OSRAM LED source, high efficacy and lumen output.

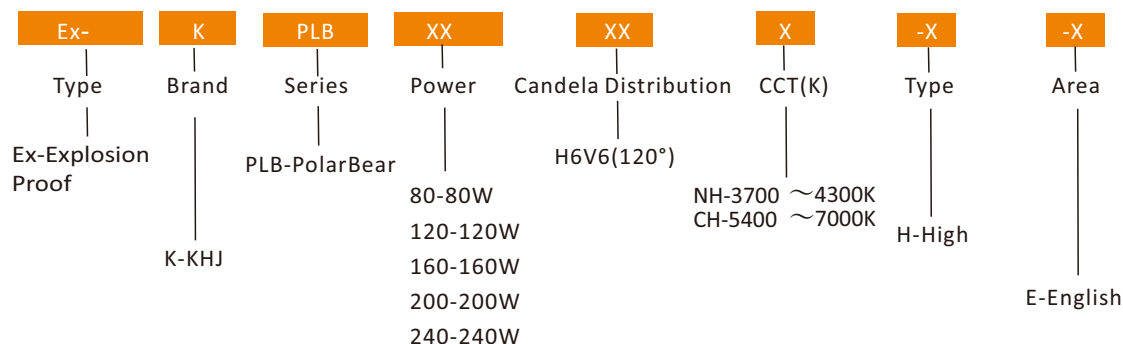


Explosion proof copper free aluminium alloy enclosure, high anti-impact performance can endure 20J impact.

★ PERFORMANCE PARAMETER



Product definition



Electrical parameters

Product type	Rated input voltage (V AC)	Rated input current (A)	Voltage frequency (Hz)	Rated power (W)	LED Input current (mA)	PF	THD
Ex-KPLB80	220~240	0.36~0.33	50/60	80	61	>0.98	<10%
	100~130	0.8~0.61	50/60	80	61	>0.98	<10%
Ex-KPLB120	220~240	0.54~0.5	50/60	120	62	>0.98	<10%
	100~130	1.2~0.92	50/60	120	62	>0.98	<10%
Ex-KPLB160	220~240	0.72~0.66	50/60	160	62	>0.98	<10%
	100~130	1.6~1.23	50/60	160	62	>0.98	<10%
Ex-KPLB200	220~240	0.9~0.83	50/60	200	69	>0.98	<10%
	100~130	2.0~1.53	50/60	200	69	>0.98	<10%
Ex-KPLB240	220~240	1.1~1	50/60	240	62	>0.98	<10%
	100~130	2.4~1.84	50/60	240	62	>0.98	<10%

Photometric parameters

Product type	P/N	Color temp.	CCT (K)	CRI	Luminous flux (lm)
Ex-KPLB80	Ex-KPLB80H6V6NH-H-E	Natural white	3700 ~ 4300	70	10560
	Ex-KPLB80H6V6CH-H-E	Cool white	5400 ~ 7000	70	10560
Ex-KPLB120	Ex-KPLB120H6V6NH-H-E	Natural white	3700 ~ 4300	70	15840
	Ex-KPLB120H6V6CH-H-E	Cool white	5400 ~ 7000	70	15840
Ex-KPLB160	Ex-KPLB160H6V6NH-H-E	Natural white	3700 ~ 4300	70	21120
	Ex-KPLB160H6V6CH-H-E	Cool white	5400 ~ 7000	70	21120
Ex-KPLB200	Ex-KPLB200H6V6NH-H-E	Natural white	3700 ~ 4300	70	26400
	Ex-KPLB200H6V6CH-H-E	Cool white	5400 ~ 7000	70	26400
Ex-KPLB240	Ex-KPLB240H6V6NH-H-E	Natural white	3700 ~ 4300	70	31680
	Ex-KPLB240H6V6CH-H-E	Cool white	5400 ~ 7000	70	31680

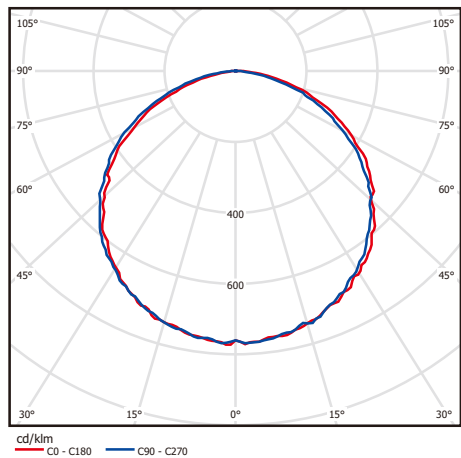
★ CANDELA DISTRIBUTION



Other parameters

Product type	Size (mm)	Weight (Kg)	Ambient temp. (°C)	Max. surface temp. (test in 25 °C)	Temp. classification	IP Code	Insulation
Ex-KPLB80	210×400×161	7.3	-40~+40	52	T6	IP66	I
			-40~+55	52	T5		
Ex-KPLB120	260×400×161	11	-40~+40	51	T6	IP66	I
			-40~+55	51	T5		
Ex-KPLB160	260×400×161	11	-40~+40	55	T6	IP66	I
			-40~+55	55	T5		
Ex-KPLB200	500×400×161	18.4	-40~+40	63	T6	IP66	I
			-40~+55	63	T5		
Ex-KPLB240	500×400×161	18.4	-40~+40	72	T5	IP66	I
			-40~+55	72	T4		

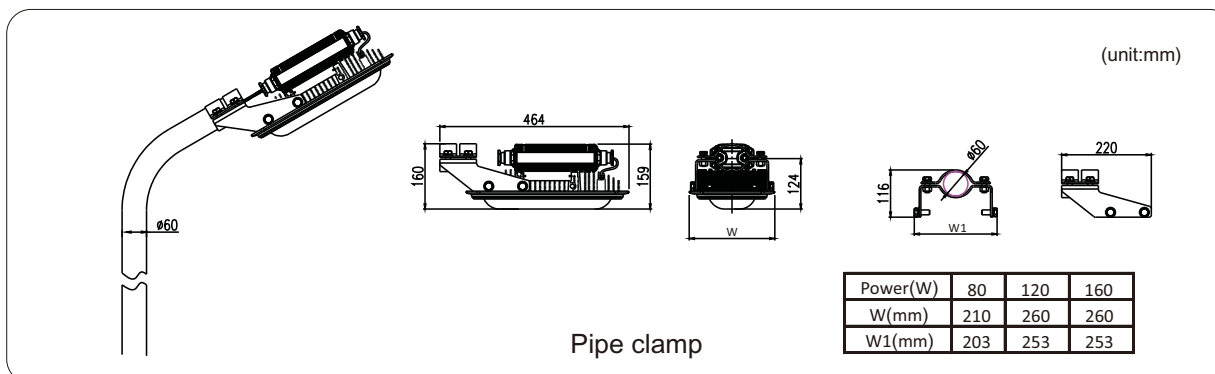
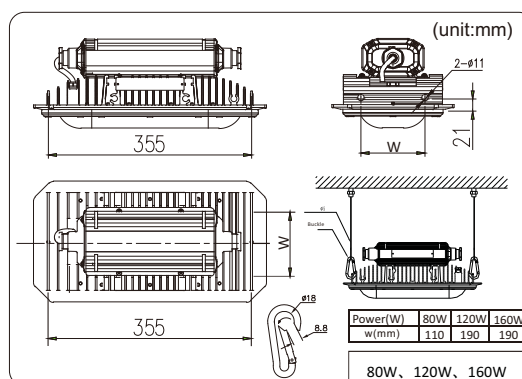
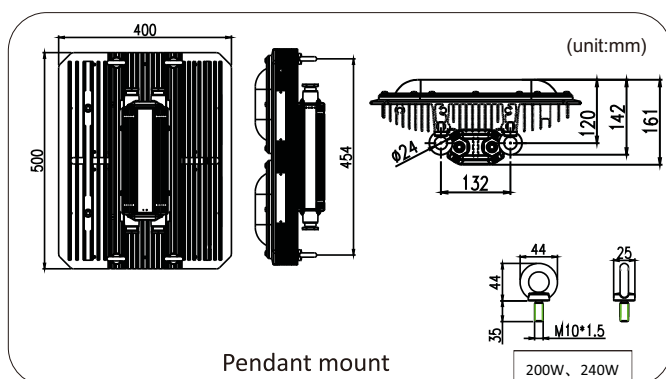
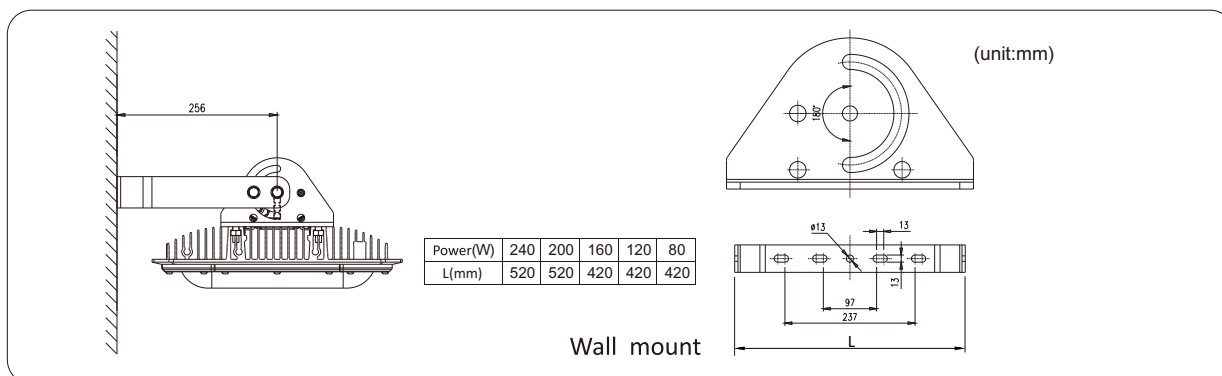
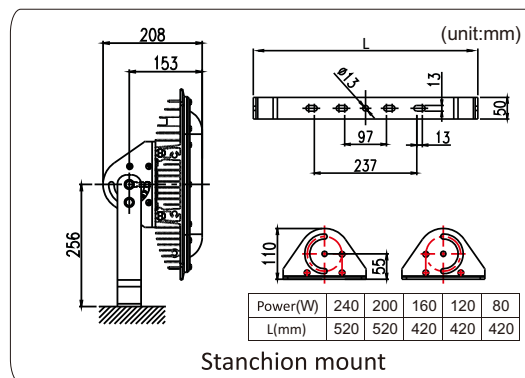
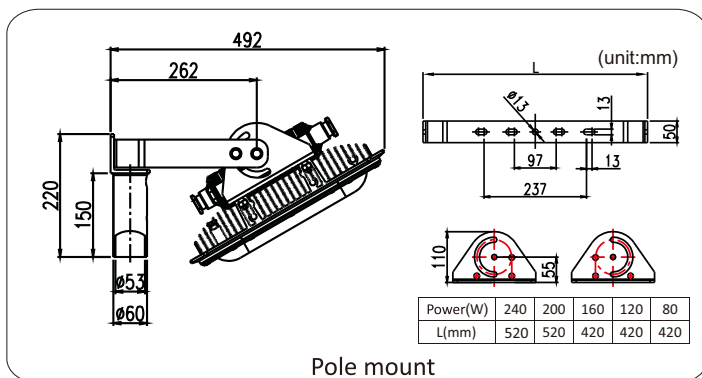
Candela distribution



★ INSTALLATION METHOD



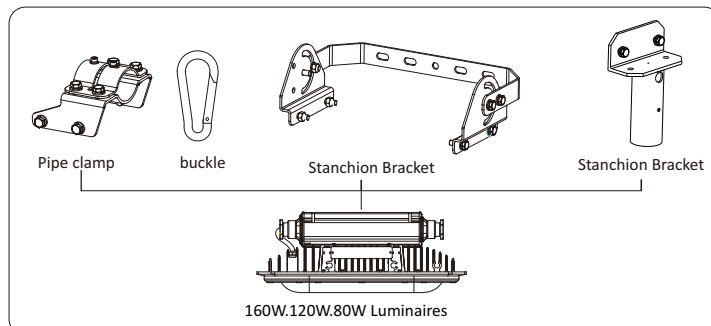
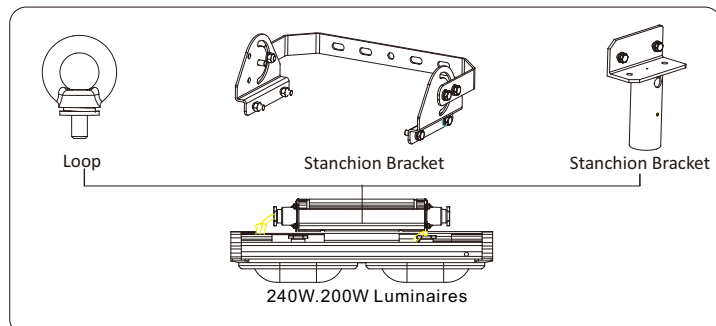
Installation Method



★ ACCESSORIES



Optional Parts



Optional Parts

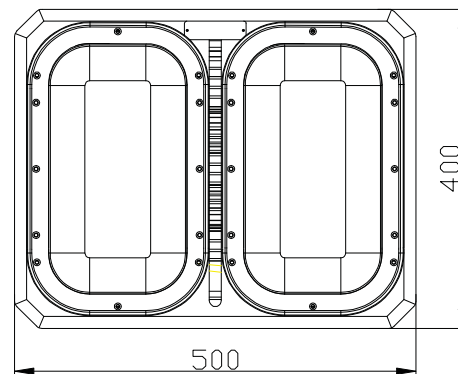
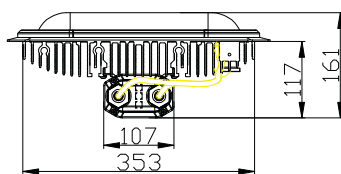
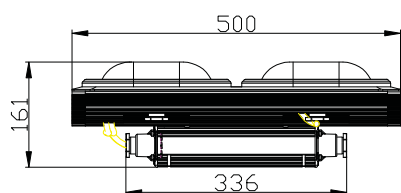
No.	Installation accessories	Picture	Material	Weight(Kg)	QTY	Remarks (Apply to)
1	Pipe clamp		Q235	2.1	1	80W
2	Pipe clamp		Q235	2.3	1	120W
3	Loop		45#	0.2	4	200W/240W
4	Buckle		45#	0.1	4	80W/120W/160W
5	Stanchion Bracket-1		Q235	4	1	80W/120W/160W
6	Stanchion Bracket-2		Q235	4.2	1	200W/240W
7	Stanchion Bracket-3		Q235	1.63	1	80W/120W/160W 200W/240W
8	Guard-1		SUS304	0.3	1	80W
9	Guard-2		SUS304	0.35	1	120W/160W
					2	200W/240W

★ SIZE



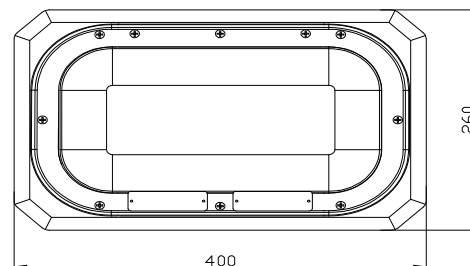
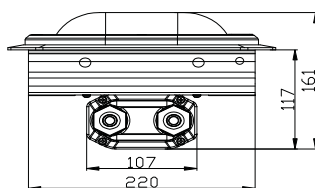
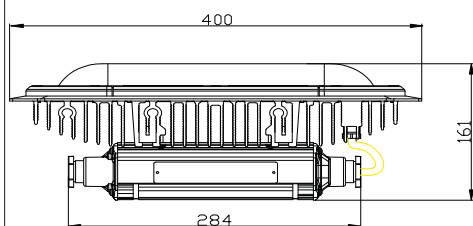
Size

unit: mm



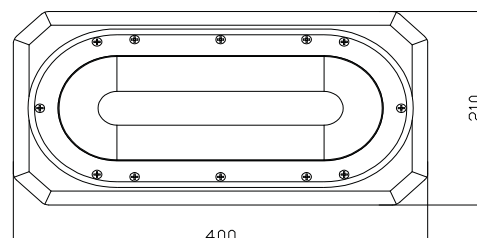
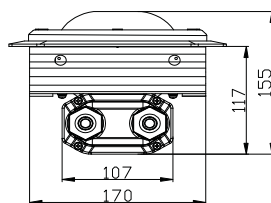
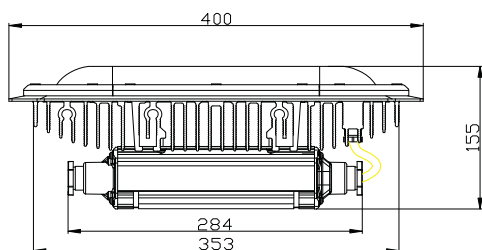
200W, 240W

unit: mm



160W, 120W

unit: mm



80W

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 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

Kept 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 can not deal with it by themselves, please contact with sales department.

Contact

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