

Polarbear Series



LED Explosion Proof Light Group II Zone 2



Ex nR II C T4orT5orT6 Gc
Ex tc III C T130 °C or T95 °C or T80 °C Dc
Certificate NO.: LCIE 14 ATEX 1014 X
IECEX CQM 13.0044X

★ LED Explosion Proof Light

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.
8. 80W, 120W, 160W, 200W 240W available. Optional luminous intensity distribution for different applications.
9. Ambient temperature from -40°C to 55°C.



Application:

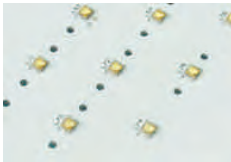
Typical applications include Gas station, manufacturing plants, and certain chemical and petrochemical processing facilities, sewage treatment plants, off-shore and dockside installations, garages and storage facilities.



Executive standard:

- IEC 60079-0:2007 Explosive atmospheres - Part 0: Equipment - General requirements
- IEC 60598-1:2008 Luminaires - Part 1: General requirements and tests

★ 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.

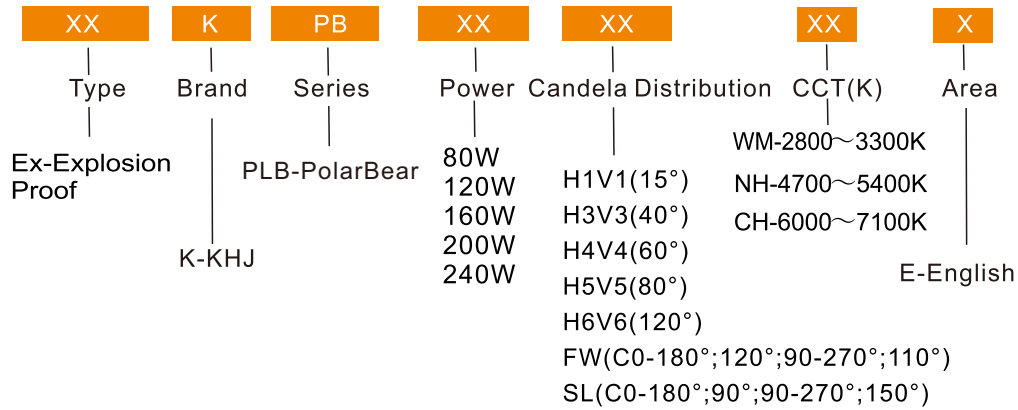


Explosion proof copper free aluminium alloy enclosure, high anti-impact performance can endure 20J impact.

★ PERFORMANCE PARAMETER



Product Definition



Electrical Parameter

Product type	Rated input voltage (V AC)	Rated input current (A)	Voltage frequency (Hz)	Rated power (W)	Input current (mA)	PF
Ex-KPLB80	200~240	0.4~0.3	50/60	80	600	>0.98
	100~130	0.9~0.6	50/60	80	600	>0.98
Ex-KPLB120	200~240	0.6~0.5	50/60	120	600	>0.98
	100~130	1.3~0.9	50/60	120	600	>0.98
Ex-KPLB160	220~240	0.8~0.6	50/60	160	600	>0.98
	100~130	1.9~1.2	50/60	160	600	>0.98
Ex-KPLB200	200~240	1~0.85	50/60	200	600	>0.98
	100~130	2.2~1.5	50/60	200	600	>0.98
Ex-KPLB240	220~240	1.2~1	50/60	240	600	>0.98
	100~130	2.8~1.9	50/60	240	600	>0.98

Photometric Parameter

Product type	P/N	Color temp.	CCT (K)	CRI	Luminous flux (lm)
Ex-KPLB80	Ex-KPLB80*WM-E	Warm white	2800 -3300	82	8222
	Ex-KPLB80*NH-E	Natural white	4700 -5400	70	9570
	Ex-KPLB80*CH-E	Cool white	5400 -6400	70	9570
Ex-KPLB120	Ex-KPLB120*WM-E	Warm white	2800 -3300	82	11748
	Ex-KPLB120*NH-E	Natural white	4700 -5400	70	13662
	Ex-KPLB120*CH-E	Cool white	5400 -6400	70	13662
Ex-KPLB160	Ex-KPLB160*WM-E	Warm white	2800 -3300	82	15664
	Ex-KPLB160*NH-E	Natural white	4700 -5400	70	18216
	Ex-KPLB160*CH-E	Cool white	5400 -6400	70	18216
Ex-KPLB200	Ex-KPLB200*WM-E	Warm white	2800 -3300	82	19580
	Ex-KPLB200*NH-E	Natural white	4700 -5400	70	22770
	Ex-KPLB200*CH-E	Cool white	5400 -6400	70	22770
Ex-KPLB240	Ex-KPLB240*WM-E	Warm white	2800 -3300	82	23496
	Ex-KPLB240*NH-E	Natural white	4700 -5400	70	27280
	Ex-KPLB240*CH-E	Cool white	5400 -6400	70	27280

★ PERFORMANCE PARAMETER



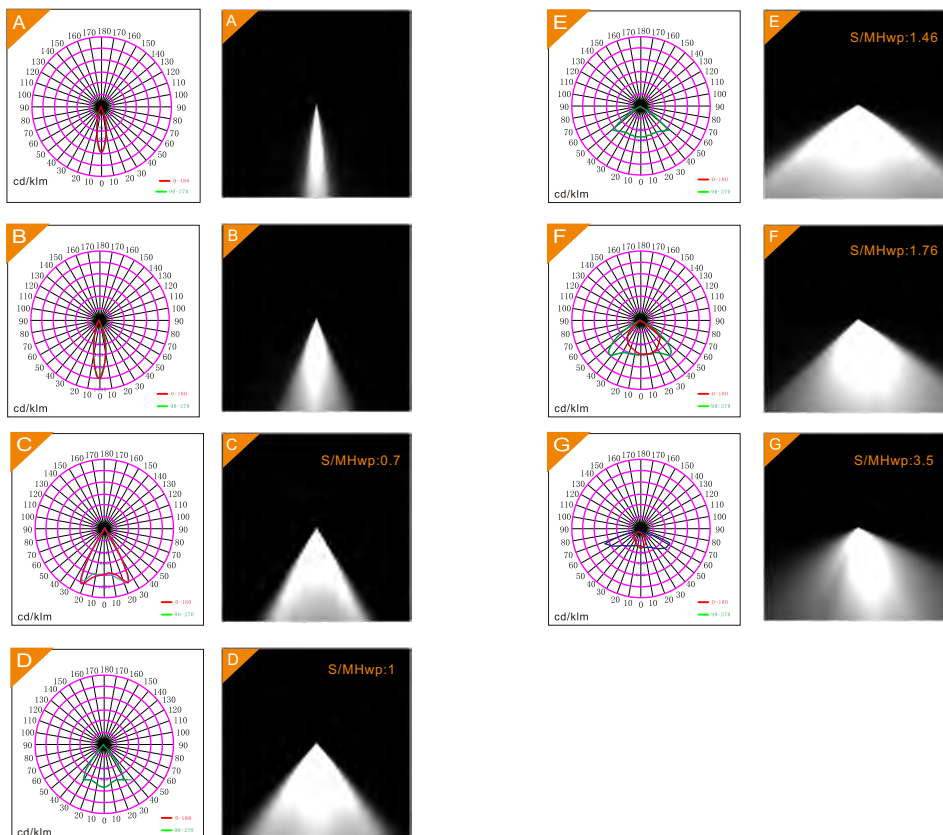
Type	Beam angle (°)	Candela distribution
H1V1	15	A
H3V3	40	B
H4V4	60	C
H5V5	80	D
H6V6	120	E
FW	C0-180°:100°;C90-270°:120°	F
SL	C0-180°:90°;C90-270°:150°	G

Remarks: *Stands for candela distribution, including H1V1/H3V3 / H4V4 / H5V5 / H6V6 / FW/ SL.

Other Parameter

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	9	-40~+40	62	T6	IP66	I
			-40~+55	62	T5		
Ex-KPLB120	260×400×161	11	-40~+40	62	T6	IP66	I
			-40~+55	62	T5		
Ex-KPLB160	260×400×161	11	-40~+40	60	T6	IP66	I
			-40~+55	60	T5		
Ex-KPLB200	400×400×161	18	-40~+40	61	T6	IP66	I
			-40~+55	61	T5		
Ex-KPLB240	500×400×161	21	-40~+40	71	T5	IP66	I
			-40~+55	71	T4		

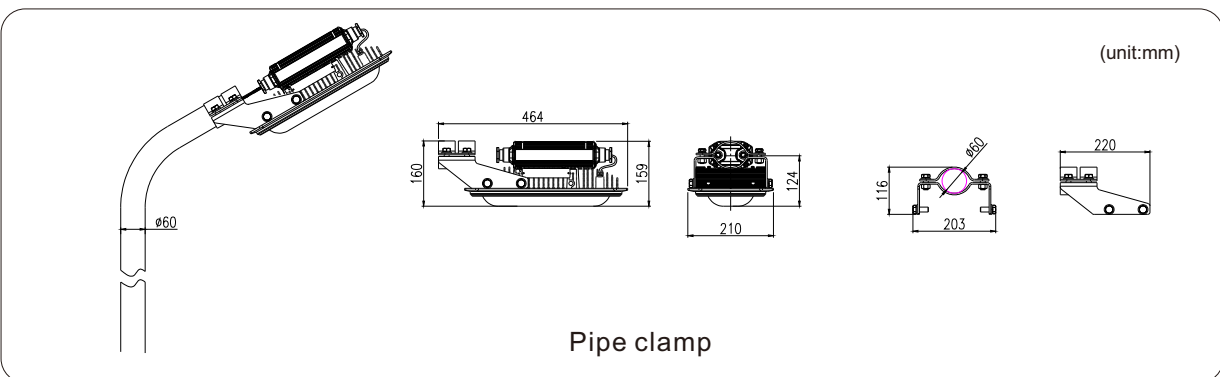
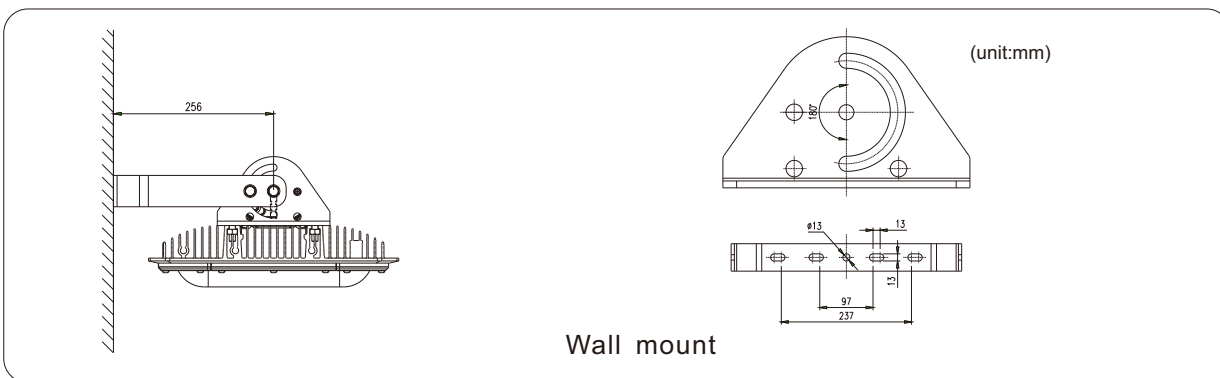
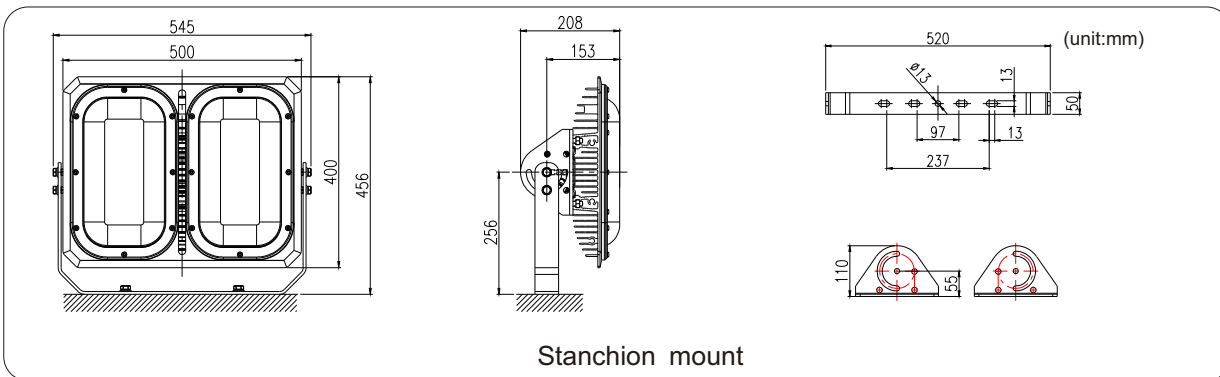
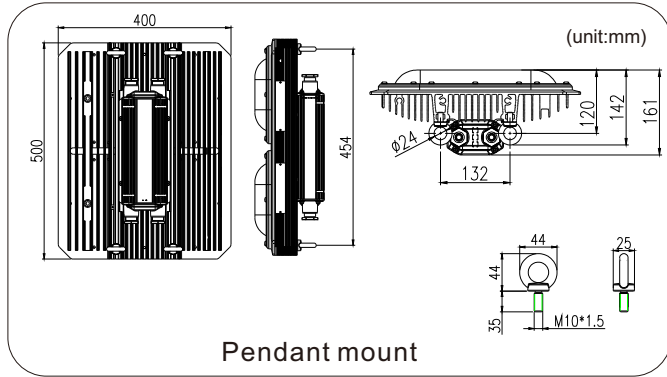
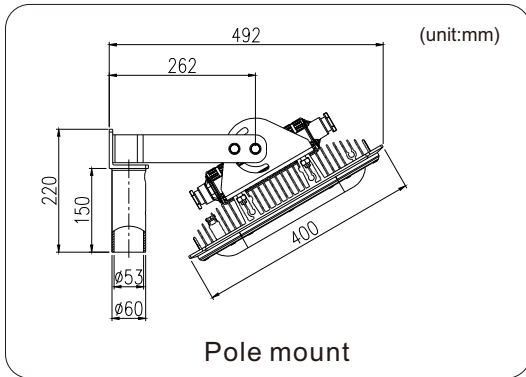
Candela Distribution



★ INSTALLATION METHOD



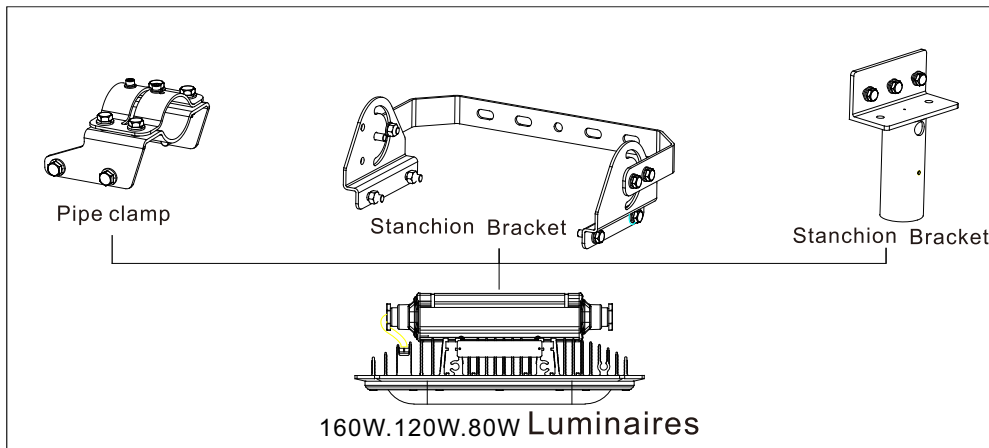
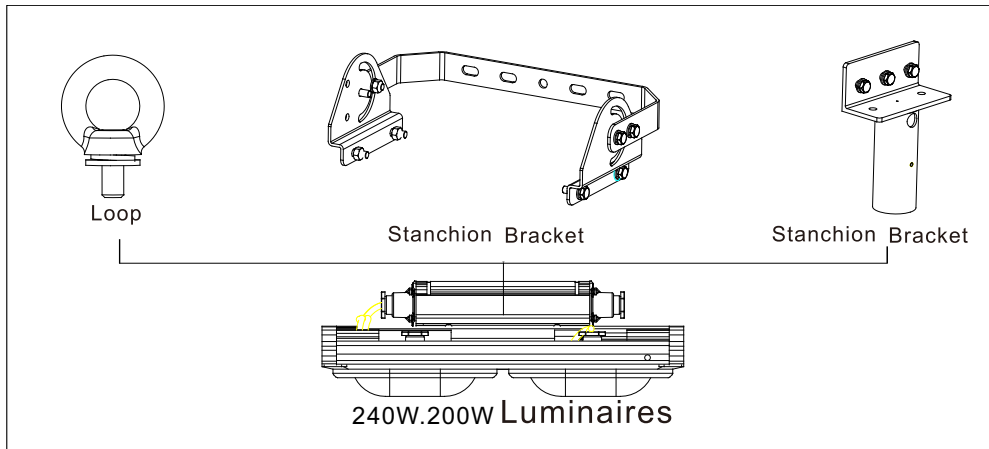
Installation Method








★ ACCESSORIES



Optional Parts



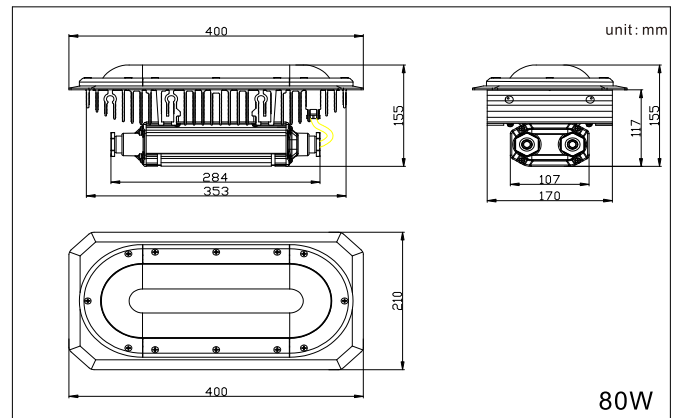
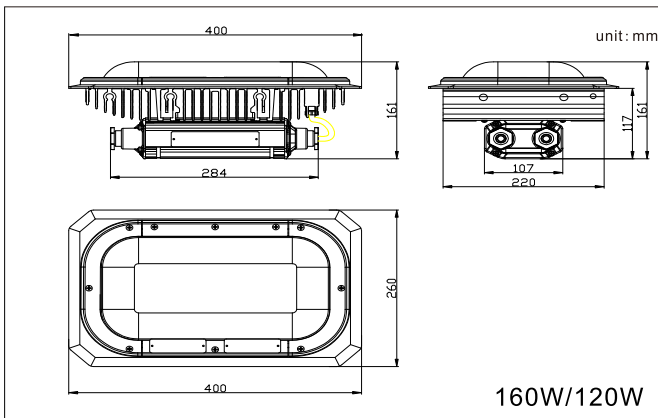
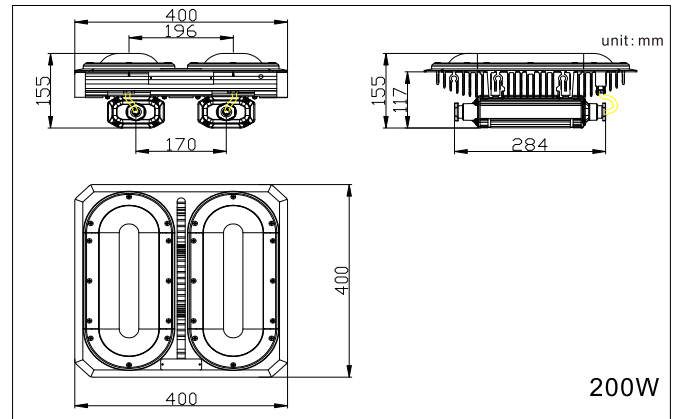
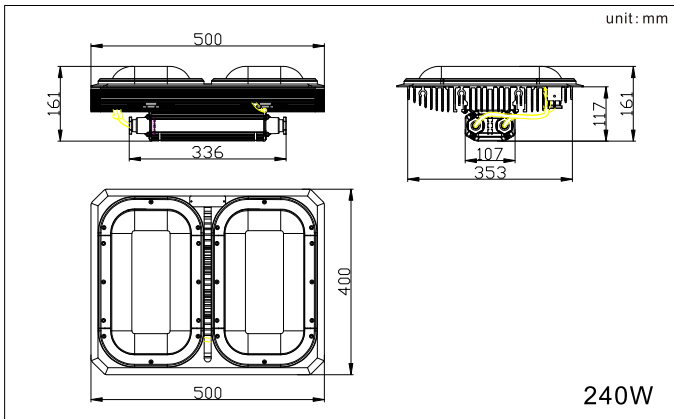
Optional Parts

NO.	Installation accessories	Picture	Material	Weight (Kg)	QTY	Remarks
1	Pipe clamp		Q235	2.1	1	/
2	Loop		45#	0.2	4	/
3	Stanchion Bracket		Q235	4.2	1	/
4	Stanchion Bracket 2		Q235	1.63	1	/
5	Guards		Q235	0.35	1	/

★ SIZE



Size



⚠ 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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