



LED Explosion Proof Light

**ATEX & IECEx Certified LED Floodlight/High bay light in Hazardous Area.
Polarbear Series**

⚡ II 3 G Ex nR IICT* Gc

⚡ II 3 D Ex tc IICT* Dc IP66





Features And Benefits:

- High efficacy LED Source with long lifespan, L70 > 100,000 hours @ 25°C ambient
- 5-year performance warranty
- Low THD around 10%, Less interference
- 5KV Surge Protection
- Robust aluminium housing and strong tempered glass
- Vibration and shock resistant
- Low maintenance

Applications:



Oil&Gas Exploration



Drilling



Oil Refinery



Petrochemical Plant



Power Plant



Pharmaceutical Plant



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LED Floodlight/High bay light

Standard & Certificate:

Ex Mark:	Gas: II 3 G Ex nR IIC T* Gc Dust: II 3 D Ex tc IIIC T* Dc IP66
Certificate:	• ATEX Certification NO.: LCIE 14 ATEX 1014X • CE • ABS • IECEx Certification NO.: IECEx CQM 13.0044X • RoHS
Executive Standard:	• (IEC)EN 60079-0, (IEC)EN 60079-15, (IEC)EN 60079-31 • EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3, • EN 60598-1, EN 60598-2-5, EN 62031, EN 62493, • IEC 62321-4, IEC 62321-5, IEC 62321-6, IEC 62321-7-1, • IEC 62321-7-2, IEC 62321-8
Classification:	• Group II Zone 2 & 22

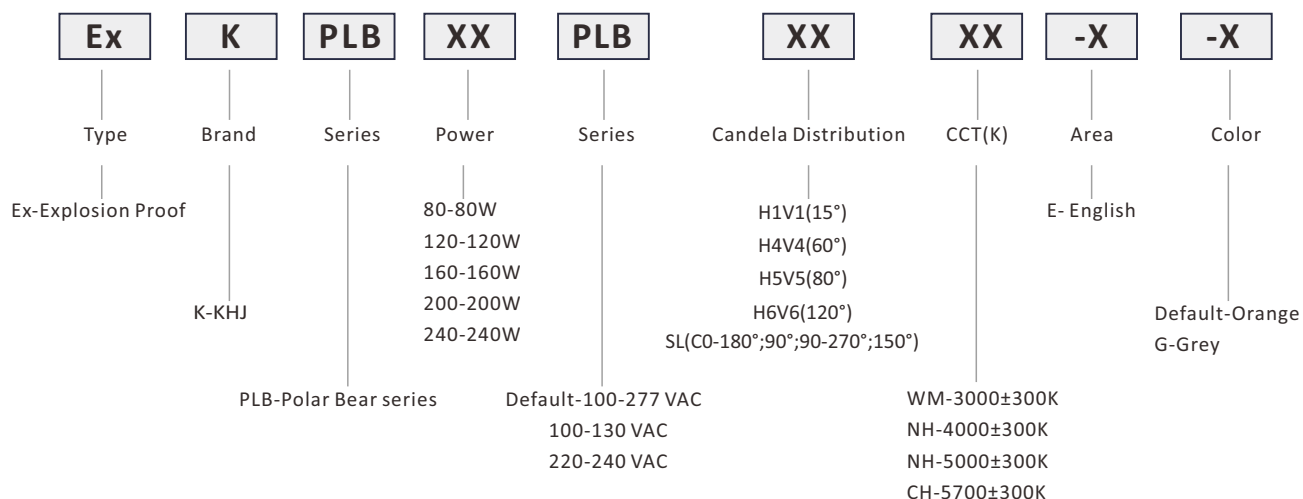
Electrical & Photometric Features:

Luminaire Efficacy:	147lm/W
Lifespan:	>100,000 hours
Operating Voltage:	100-277 VAC/220-240 VAC/100-130 VAC 141-392 VDC/311-339 VDC/141-184 VDC
Power:	80W/120W/160W/200W/240W
Frequency:	50/60Hz
Power Factor:	>0.98
THD:	<10%
Insulation Class:	I
Surge Protection:	4KV/6KV
LED Driver:	Over voltage protection/short circuit protection

Mechanical Features:

Weight:	7.3Kg(80W)/11Kg(120W,160W)/18.4Kg(200W,240W)
Size:	210*400*161mm(80W)/260*400*161mm(120W,160W) 500*400*161mm(200W,240W)
Ambient Temperature:	-40°C~+55°C
Connecting Terminals:	3*1.0-4mm ² (L+N+PE)
Cable Entries:	2XNPT 3/4" (M20*1.5, M25*1.5 are optional)
Earthing Protection:	M4 (Internal & external earth bolts)
IP Code:	IP66
Enclosure Material:	Copper-free Aluminium
Enclosure Colour:	Orange, RAL2011(optional grey RAL7040)
Coating:	Epoxy powder coating
Exposed Fastener:	Stainless steel
Protective Cover:	Tempered glass, Stand 7J impact

Production Definition

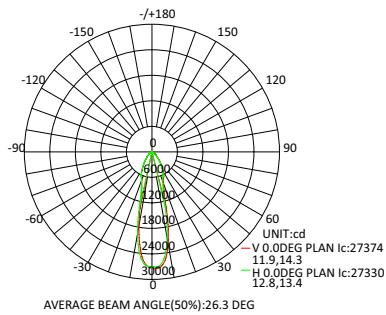


Ordering information

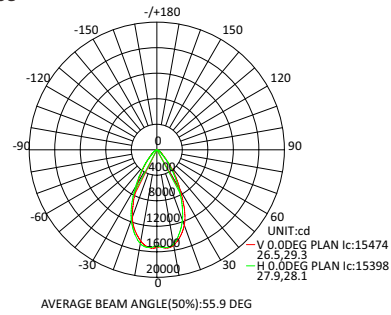
P/N	Operating Voltage(V)	Luminous Flux(lm)	Power(W)	CRI	Color Temp.	CCT(K)	Temp. Classification
Ex-KPLB80*WM-E	100-277 VAC (141-392 VDC)	10920	80	70	Warm white	3000±300	T6/T5
Ex-KPLB80*NH-E		11760	80	70	Natural white	4000±300	T6/T5
Ex-KPLB80*NH-E		11760	80	70	Natural white	5000±300	T6/T5
Ex-KPLB80*CH-E		11760	80	70	Cool white	5700±300	T6/T5
Ex-KPLB120*WM-E		16380	120	70	Warm white	3000±300	T6/T5
Ex-KPLB120*NH-E		17640	120	70	Natural white	4000±300	T6/T5
Ex-KPLB120*NH-E		17640	120	70	Natural white	5000±300	T6/T5
Ex-KPLB120*CH-E		17640	120	70	Cool white	5700±300	T6/T5
Ex-KPLB160*WM-E		21840	160	70	Warm white	3000±300	T6/T5
Ex-KPLB160*NH-E		23520	160	70	Natural white	4000±300	T6/T5
Ex-KPLB160*NH-E		23520	160	70	Natural white	5000±300	T6/T5
Ex-KPLB160*CH-E		23520	160	70	Cool white	5700±300	T6/T5
Ex-KPLB200*WM-E		27300	200	70	Warm white	3000±300	T6/T5
Ex-KPLB200*NH-E		29400	200	70	Natural white	4000±300	T6/T5
Ex-KPLB200*NH-E		29400	200	70	Natural white	5000±300	T6/T5
Ex-KPLB200*CH-E		29400	200	70	Cool white	5700±300	T6/T5
Ex-KPLB240*WM-E		32760	240	70	Warm white	3000±300	T5/T4
Ex-KPLB240*NH-E		35280	240	70	Natural white	5000±300	T5/T4
Ex-KPLB240*NH-E		35280	240	70	Natural white	4000±300	T5/T4
Ex-KPLB240*CH-E		35280	240	70	Cool white	5700±300	T5/T4

Remarks: 1.* Stands for beam angle,including H1V1 / H4V4 / H5V5 / H6V6 / SL
2.For Beam angle H1V1,H4V4 and H5V5,the luminous flux will be 15% less;
For Beam angle SL,the luminous flux will be 30% less.
3.SL beam angle is only applicable for 80W&120W.

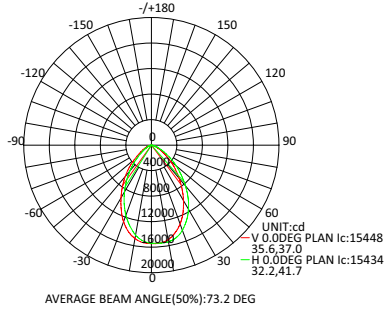
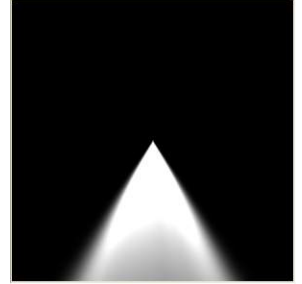
Candela Distribution



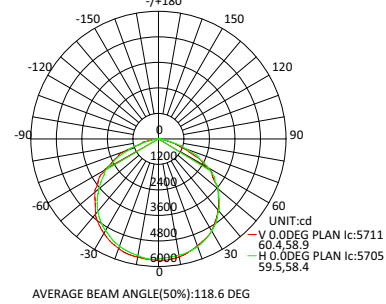
H1V1(15°)/High efficacy LED Source



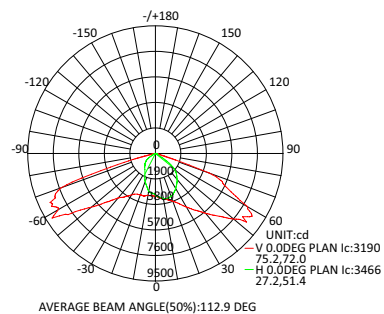
H4V4(60°)/High efficacy LED Source



H5V5(80°)/High efficacy LED Source



H6V6(120°)/High efficacy LED Source

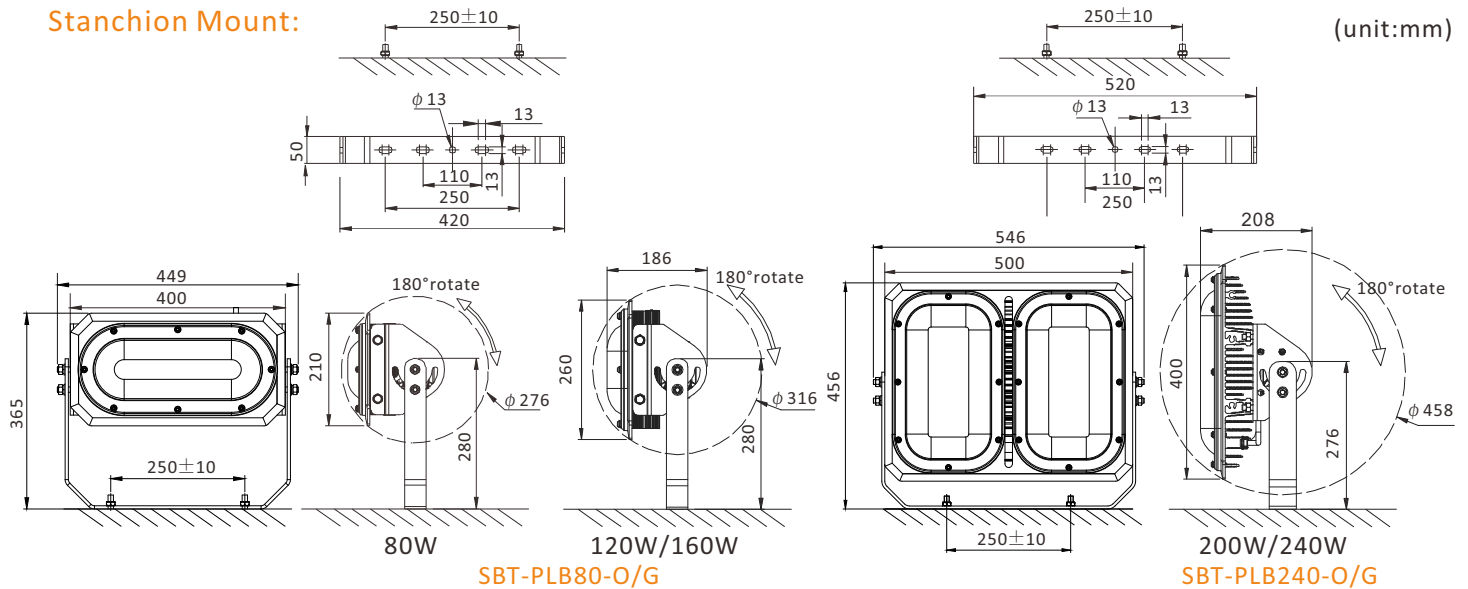


SL/High efficacy LED Source

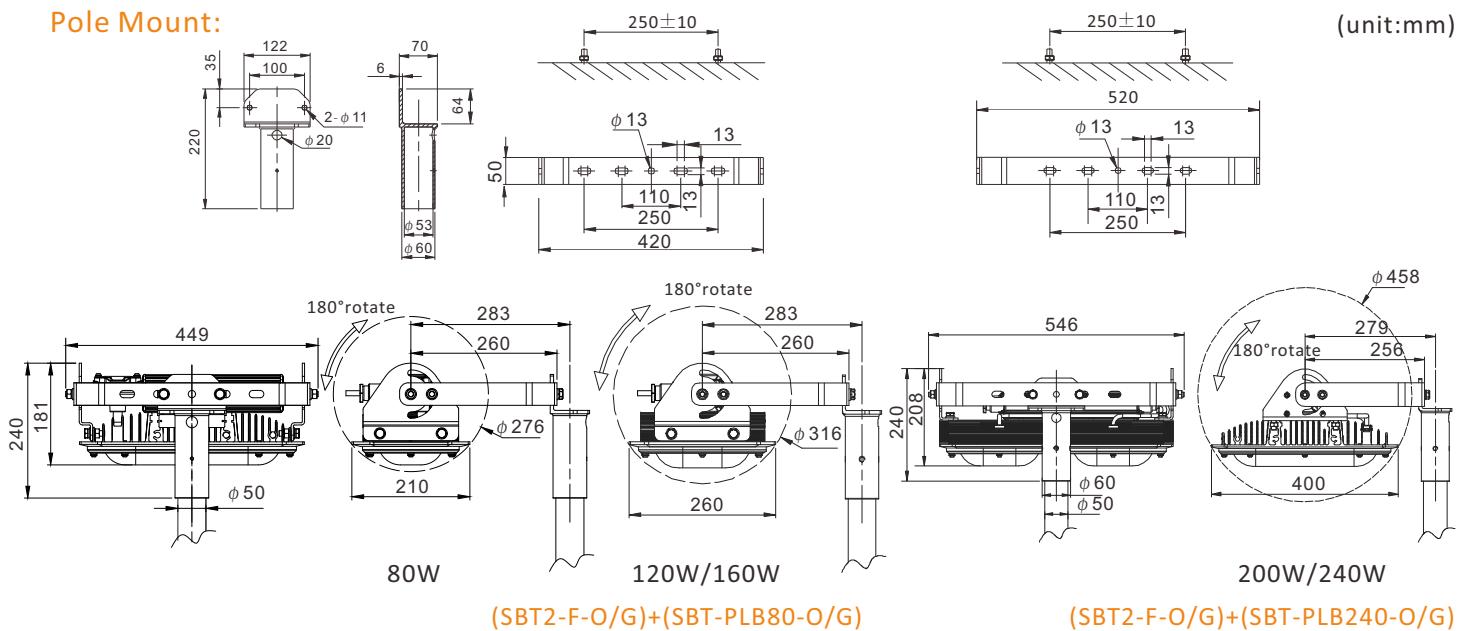


Installation Method

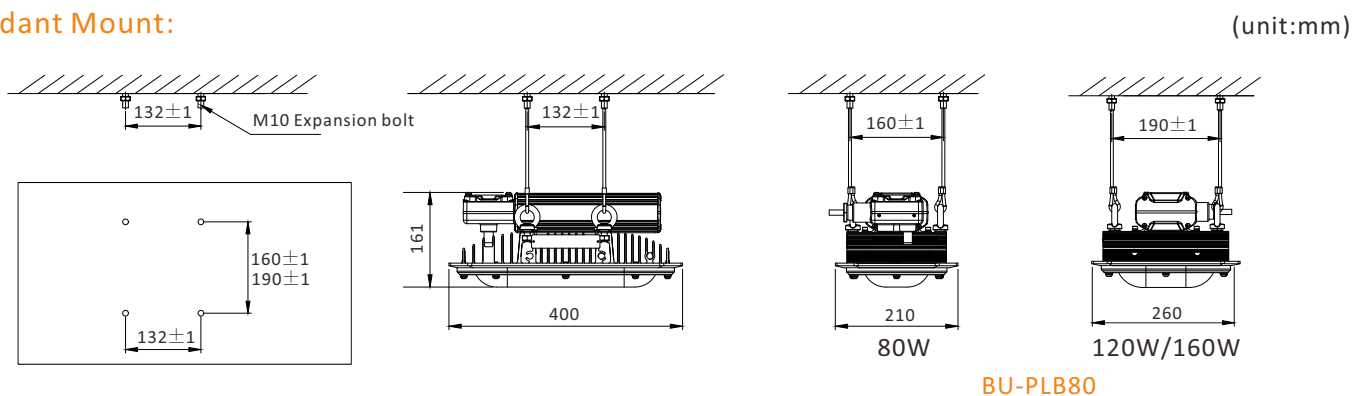
Stanchion Mount:



Pole Mount:



Pendant Mount:



Pendant Mount:

(unit:mm)



LO-PLB

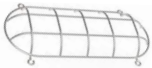
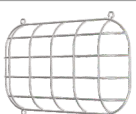
Pipe Clamp:

(unit:mm)



120W/160W
PCP-PLB120-O/G

Optional Parts

No.	Installation accessories	Part No.	Picture	Material	Weight(Kg)	QTY	Remark
1	Pipe clamp	PCP-PLB80-O/G		Q235	2.1	1	Pipe clamp (80W)
2	Pipe clamp	PCP-PLB120-O/G		Q235	2.3	1	Pipe clamp (120W/160W)
3	Buckle	BU-PLB80		45#	0.1	4	Buckle mount (80W/120W/160W)
4	Loop	LO-PLB80		45#	0.2	4	Pendant mount (80W/120W/160W 200W/240W)
5	Stanchion Bracket	SBT-PLB80-O/G		Q235	4	1	Wall mount Stanchion mount (80W/120W/160W)
6	Stanchion Bracket	SBT-PLB240-O/G		Q235	4.3	1	Wall mount Stanchion mount (200W/240W)
7	Stanchion Bracket1	SBT2-F-O/G SBT-PLB80-O/G		Q235	5.63	1	Pole mount (80W/120W/160W)
8	Stanchion Bracket1	SBT2-F-O/G SBT-PLB240-O/G		Q235	5.83	1	Pole mount (200W/240W)
9	Guard-1	GU-PLB80-MC		SUS304	0.3	1	(80W)
10	Guard-2	GU-PLB120-MC		SUS304	0.35	1	(120W/160W)
		GU-PLB240-MC			0.7	1	(200W/240W)