



LED Explosion Proof Light

**ATEX & IECEx Certified LED Floodlight/bay light/platform light
in Hazardous Area.**

Forest Frog Series

- ⚡ II 2 G Ex db IIC T6...T4 Gb
- ⚡ II 2 G Ex db eb IIC T6...T4 Gb
- ⚡ II 2 D Ex tb IIIC T80°C...T130°C Db





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/bay light/platform light

Standard & Certificate:

Ex Mark:	Gas: II2 G Ex db IIC T6...T4 Gb II2 G Ex db eb IIC T6...T4 Gb Dust: II2 D Ex tb IIC T80°C...T130°C Db
Certificate:	• ATEX Certification NO.:EPT 18 ATEX 2977 X • IECEx Certification NO.:IECEx CQM 15.0039X • CE • RoHS
Executive Standard:	• (IEC)EN 60079-0, (IEC)EN 60079-1, (IEC)EN 60079-7, • (IEC)EN 60079-28, (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 1 & 21 and 2 & 22

Electrical & Photometric Features:

Luminaire Efficacy:	136.5lm/W
Lifespan:	>100,000 hours
Operating Voltage:	24-48 VAC/100-277 VAC 10-30 VDC/24-48 VDC/141-392 VDC
Power(W):	30W/45W/60W
Frequency:	50/60Hz
Power Factor:	>0.98
THD:	<10%
Insulation Class:	I
Surge Protection:	5KV
LED Driver:	Over voltage protection/short circuit protection

Mechanical Features:

Weight:	3.3Kg
Size:	φ 220*191mm
Ambient Temperature:	-40°C-+55°C
Connecting Terminals:	3*1.0-4.0mm ² (L+N+PE)
Cable Entries:	1XNPT 3/4" (M25*1.5 is optional)
Earthing Protection:	M4 (Internal & external earth bolts)
IP Code:	IP66
Enclosure Material:	Die-casting aluminium alloy
Enclosure Colour:	Orange,RAL2011(optional grey RAL7040)
Coating:	Epoxy powder coating
Exposed Fastener:	Stainless steel
Protective Cover:	Tempered glass,Stand 7J impact



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Production Definition

Ex	K	FF	XX	XX	XX	XX	-X	-J	-X	-X
Type	Brand	Series	Power	Input Voltage	Candela Distribution	CCT(K)	Type	Junction box	Area	Color
Ex-Explosion Proof				Default-100-277 VAC A-24-48 VAC/DC B-10-30 VDC			Default-Normal P-Pole mount bracket		E- English	
	K-KHJ	FF-ForestFrog	30-30W 45-45W 60-60W		H1V1(15°) H5V5(80°) H6V6(120°)	WM-3000±300K NH-4000±300K NH-5000±300K CH-5700±300K		J-Junction box		Default-Orange G-Grey

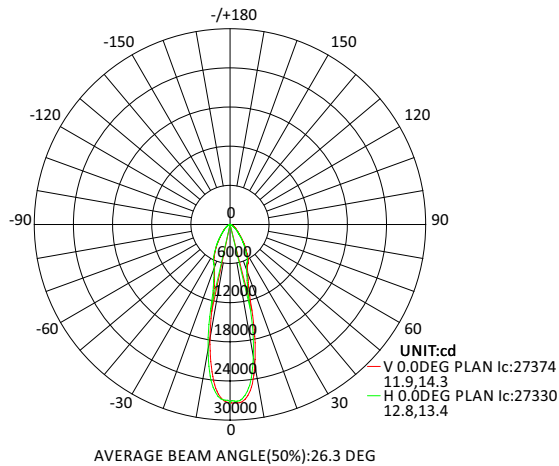
Ordering information

P/N	Operating Voltage(V)	Luminous Flux(lm)	Power(W)	CRI	Color Temp.	CCT(K)	Temp. Classification	
							-40℃~+40℃	-40℃~+55℃
Ex-KFF30*WM-J-E	100~277 AC (141~392 DC)	3780	30	70	Warm white	3000±300	T6	T5
Ex-KFF30*NH-J-E		4095	30	70	Natural white	4000±300	T6	T5
Ex-KFF30*NH-J-E		4095	30	70	Natural white	5000±300	T6	T5
Ex-KFF30*CH-J-E		4095	30	70	Cool white	5700±300	T6	T5
Ex-KFF45*WM-J-E		5670	45	70	Warm white	3000±300	T6	T5
Ex-KFF45*NH-J-E		6142	45	70	Natural white	4000±300	T6	T5
Ex-KFF45*NH-J-E		6142	45	70	Natural white	5000±300	T6	T5
Ex-KFF45*CH-J-E		6142	45	70	Cool white	5700±300	T6	T5
Ex-KFF60*WM-J-E		7560	60	70	Warm white	3000±300	T5	T4
Ex-KFF60*NH-J-E		8190	60	70	Natural white	4000±300	T5	T4
Ex-KFF60*NH-J-E		8190	60	70	Natural white	5000±300	T5	T4
Ex-KFF60*CH-J-E		8190	60	70	Cool white	5700±300	T5	T4

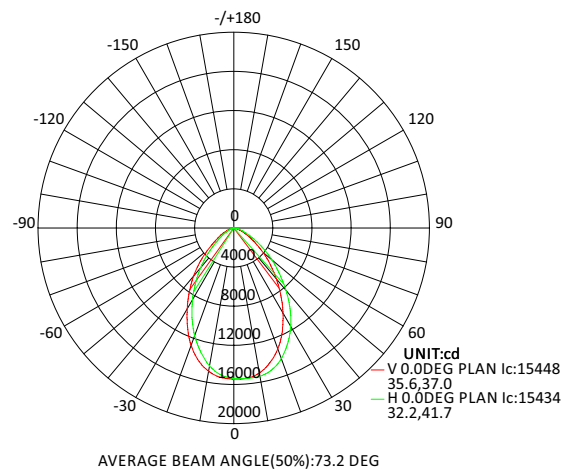
Remarks: 1、*Stands for candela distribution, including H1V1 / H5V5 / H6V6;
2、For beam angle H1V1/H5V5,the luminous flux will be 8% less;

Candela Distribution

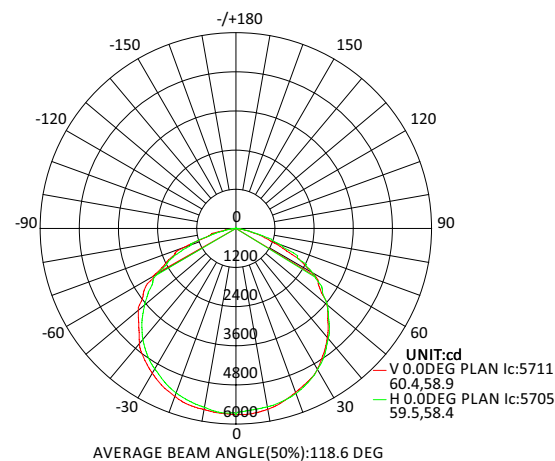
H1V1(15°)/High efficacy LED Source



H5V5(80°)/High efficacy LED Source

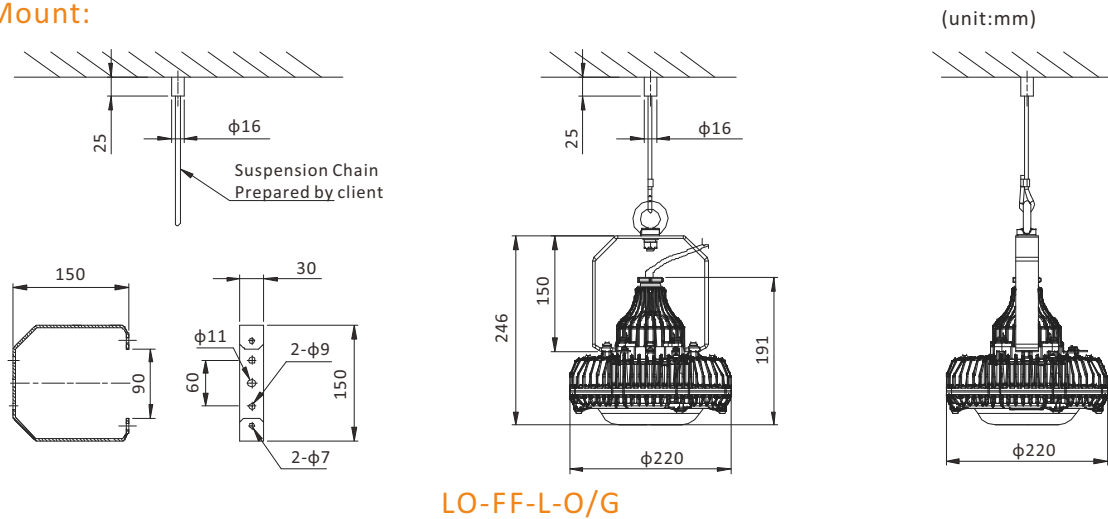


H6V6(120°)/High efficacy LED Source

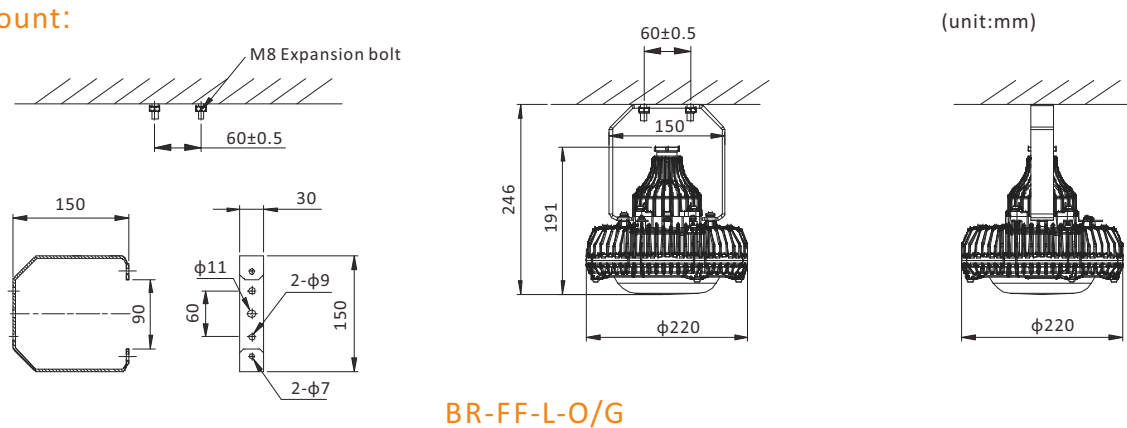


Installation Method

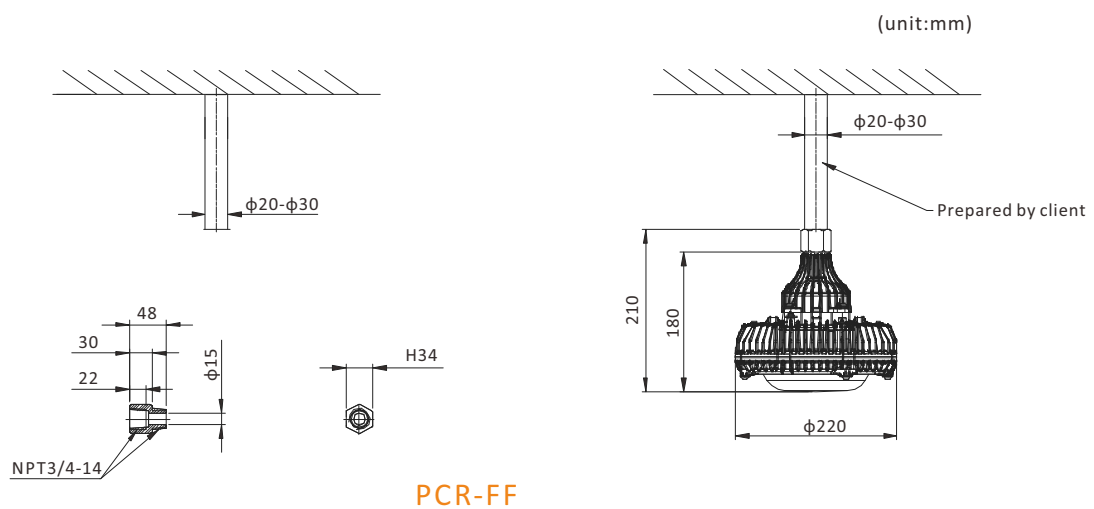
Pendant Mount:



Ceiling Mount:

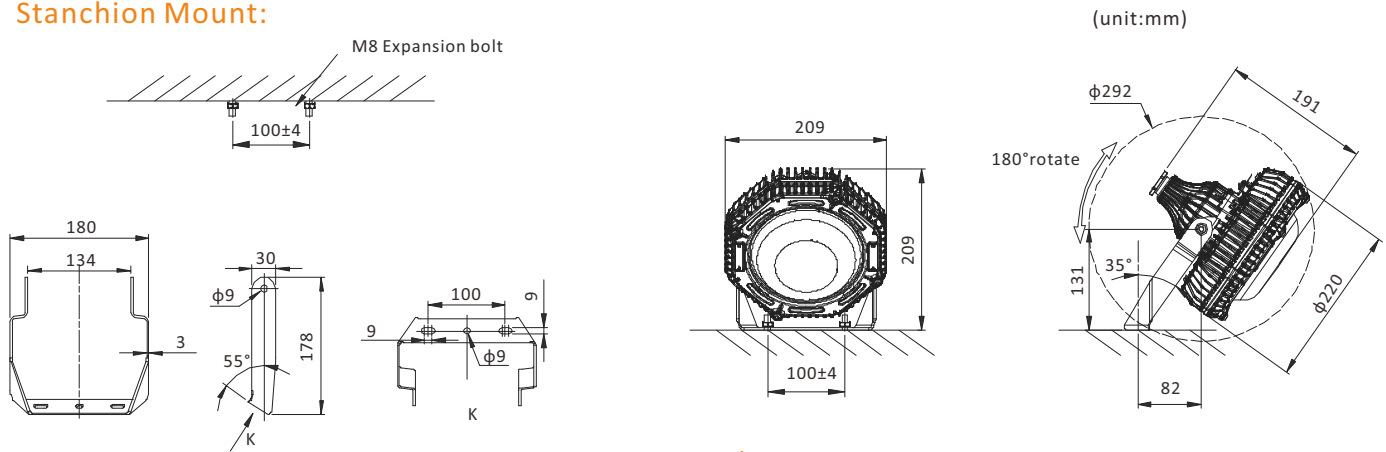


Pipe Mount:

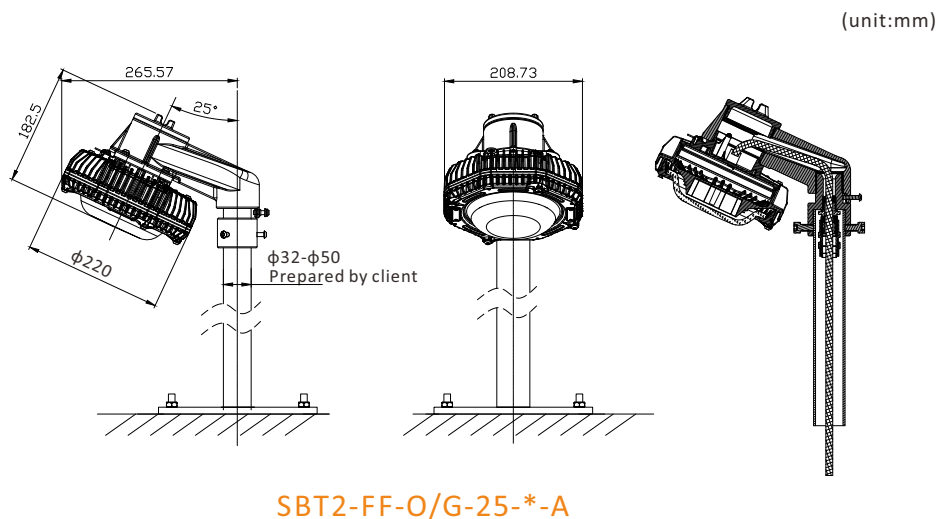


Installation Method

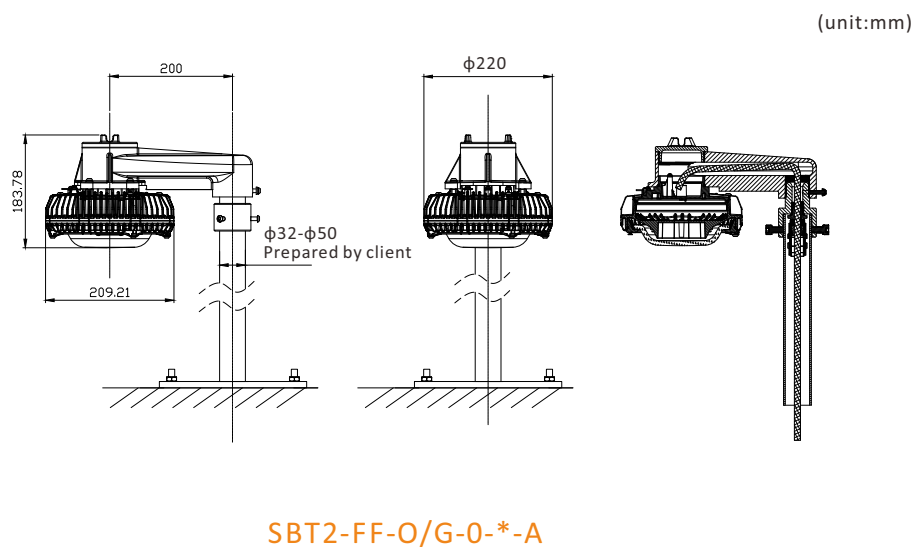
Stanchion Mount:



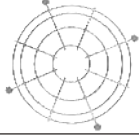
Pole Mount:



Pole Mount:



Optional Parts

No.	Installation accessories	Part No.	Picture	Material	Weight(Kg)	QTY	Remark
1	Bracket	BR-FF-L-O/G		Q235	0.24	1	Ceiling mount
2	Loop	LO-FF-L-O/G		Q235	0.36	1	pendant mount
3	Stanchion bracket	SBT-FF-O/G		Q235	0.47	1	Stanchion mount
4	Pipe connector	PCR-FF-N PCR-FF-M		SUS304	0.28	1	Pipe mount
5	Guard	GU-FF		SUS304	0.13	1	/
6	25°Pole mount bracket	SBT2-FF-O/G-25°-A		ADC12	1.14	1	Pole mount
7	0°Pole mount bracket	SBT2-FF-O/G-0°-A		ADC12	1.34	1	Pole mount

Remark:* Stands for pole threads, including G1-1/4、M42、NPT1-1/4、NPT1-1/2、60mm.