



LED Explosion Proof Light

**ATEX & IECEx Certified LED Floodlight Hazardous Area.
Tank Series**

II 2 G Ex db IIC T* Gb

II 2 D Ex tb IIIC T* Db IP66





Features And Benefits:

- High efficacy LED Source with long lifespan >100,000 hours
- 5-year performance warranty
- Low THD around 10%, Less interference
- 6KV Surge Protection
- Robust aluminium housing and strong tempered glass
- Vibration and shock resistant
- Low maintenance
- Dust proof structure design to avoid dust accumulation

Applications:



Oil&Gas Exploration



Drilling



Oil Refinery



Petrochemical Plant



Power Plant



Pharmaceutical Plant



ATEX & IECEx Certified LED Floodlight in Hazardous Area.

LED Floodlight

Standard & Certificate:

Ex Mark:	Gas: ⚠ II 2 G Ex db IIC T* Gb Dust: ⚠ II 2 D Ex tb IIIC T* Db IP66
Certificate:	ATEX Certification NO.: TÜV 21 ATEX 8775 X IECEx Certification NO.: IECEx TUR 21.0070X
Executive Standard:	(IEC)EN 60079-0, (IEC)EN 60079-1, (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:	Max:152lm/W
Lifespan:	>50,000 hours
Operating Voltage:	Normal 100-277 VAC, 20-30 VAC, 347-480 VAC, 141-391VDC, 491-679 VDC
	Emergency 220-240 VAC, 311-339 VDC
Power:	Normal 80W/100W/120W(Single lamp), 160W/200W/240W(Two lamps), 240W/300W/360W(Three lamps), 320W/400W/480W(Four lamps)
	Emergency 10W
Frequency:	50/60Hz
Battery Capacity:	9.6V 4Ah
Battery Type:	NI-MH
Battery Lifespan:	500 cycles
Light Duration:	3h
Charge Time:	> 24
Power Factor:	> 0.98
THD:	< 10%
Insulation Class:	I
Surge Protection:	4KV/6KV
LED Driver:	Over voltage protection/short circuit protection

Mechanical Features:

Weight:	8.3Kg(80W~120W)/17Kg(160W~240W)/26Kg(240W~360W)/36kg(320W~480W)
Size:	332*212*142mm(80W~120W)/332*426*142mm(160W~240W) /332*640*142mm(240W~360W)/671*426*142mm(320W~480W)
Ambient Temperature:	-40°C~+55°C(Normal), -20°C~+55°C(Emergency)
Connecting Terminals:	3*1.0-4mm ² (L+N+PE)
Cable Entries:	2XM20*1.5 (NPT 3/4", M25*1.5 are optional)
Earthing Protection:	M4 (Internal & external earth bolts)
IP Code:	IP66
Enclosure Material:	Aluminium
Enclosure Colour:	Grey RAL7040
Coating:	Epoxy powder coating
Exposed Fastener:	Stainless steel
Protective Cover:	Tempered glass, Stand 7J impact

Production Definition

Ex	K	TK	XX	X	XX	XX	-X	-X	-X
Type	Brand	Series	Power	Input Voltage	Candela Distribution	CCT(K)	Type	Type	Area
Ex-Explosion Proof	K-KHJ	Tank series	80-80W 100-100W 120-120W 160-160W 200-200W 240-240W 300-300W 320-320W 360-360W 400-400W 480-480W	Default:100v~277VAC D-347-480VAC E-20-30VAC	H3V3(40°) H5V5(80°) H6V6(120°)	WM-3000±300K NH-4000±300K NH-5000±300K CH-5700±300K	Default-single lamp P2-Two lamp P3-Three lamp P4-Four lamp	Default-Normal ON-Emergency	E- English

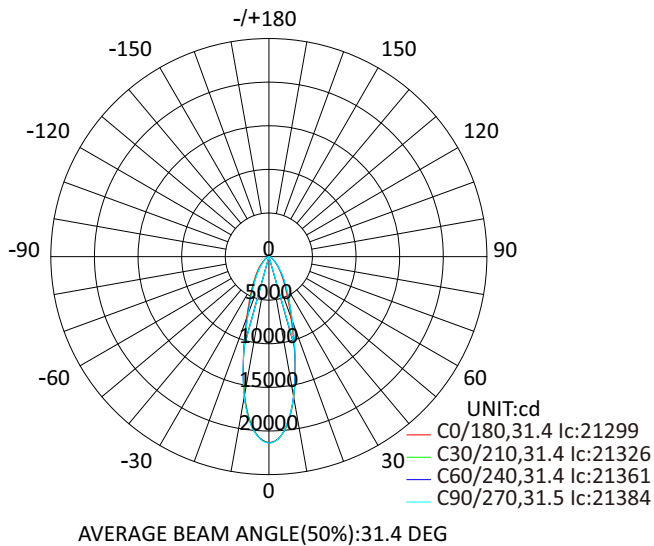
Ordering information

P/N	Operating Voltage(V)	Luminous Flux(lm)	Power(W)	CRI	Color Temp.	CCT(K)	Temp. Classification -40°C~+55°C
Ex-KTK80**CH-E	100-277 VAC (141-392 VDC)	12107	80	70	Cool white	5700K±300K	T5
Ex-KTK80**NH-E		12107		70	Natural white	5000K±300K	T5
Ex-KTK80**NH-E		12107		70	Natural white	4000±300k	T5
Ex-KTK80**WM-E		10896		70	Warm white	3000±300k	T5
Ex-KTK100**CH-E		14954	100	70	Cool white	5700±300k	T5
Ex-KTK100**NH-E		14954		70	Natural white	5000±300k	T5
Ex-KTK100**NH-E		14954		70	Natural white	4000±300k	T5
Ex-KTK100**WM-E		13458		70	Warm white	3000±300k	T5
Ex-KTK120**CH-E		17310	120	70	Cool white	5700±300k	T5
Ex-KTK120**NH-E		17310		70	Natural white	5000±300k	T5
Ex-KTK120**NH-E		17310		70	Natural white	4000±300k	T5
Ex-KTK120**WM-E		15579		70	Warm white	3000±300k	T5
Ex-KTK160**CH-P2-E		22910	160	70	Cool white	5700K±300K	T5
Ex-KTK160**NH-P2-E		22910		70	Natural white	5000K±300K	T5
Ex-KTK160**NH-P2-E		22910		70	Natural white	4000±300k	T5
Ex-KTK160**WM-P2-E		20619		70	Warm white	3000±300k	T5
Ex-KTK200**CH-P2-E		29145	200	70	Cool white	5700±300k	T5
Ex-KTK200**NH-P2-E		29145		70	Natural white	5000±300k	T5
Ex-KTK200**NH-P2-E		29145		70	Natural white	4000±300k	T5
Ex-KTK200**WM-P2-E		26230		70	Warm white	3000±300k	T5
Ex-KTK240**CH-P2-E		34136	240	70	Cool white	5700±300k	T5
Ex-KTK240**NH-P2-E		34136		70	Natural white	5000±300k	T5
Ex-KTK240**NH-P2-E		34136		70	Natural white	4000±300k	T5
Ex-KTK240**WM-P2-E		30884		70	Warm white	3000±300k	T5

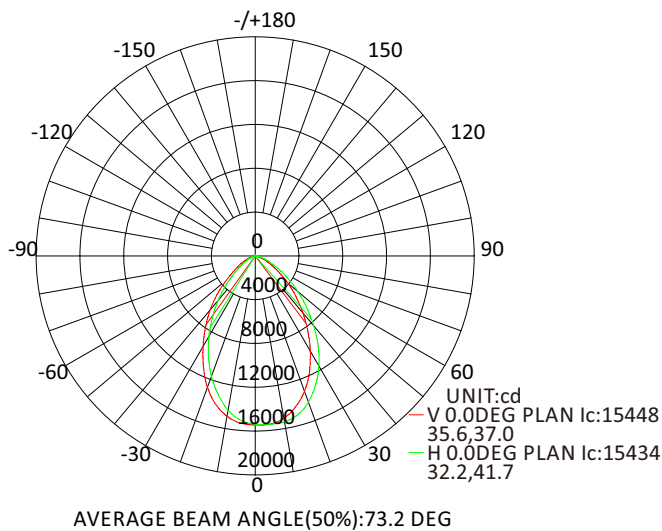
P/N	Operating Voltage(V)	Luminous Flux(lm)	Power(W)	CRI	Color Temp.	CCT(K)	Temp. Classification -40°C--+55°C
Ex-KTK240**CH-P3-E	100-277 VAC (141-392 VDC)	33520	240	70	Cool white	5700±300k	T5
Ex-KTK240**NH-P3-E		33520		70	Natural white	5000±300k	T5
Ex-KTK240**NH-P3-E		33520		70	Natural white	4000±300k	T5
Ex-KTK240**WM-P3-E		30168		70	Warm white	3000±300k	T5
Ex-KTK300**CH-P3-E		43500	300	70	Cool white	5700±300k	T5
Ex-KTK300**NH-P3-E		43500		70	Natural white	5000±300k	T5
Ex-KTK300**NH-P3-E		43500		70	Natural white	4000±300k	T5
Ex-KTK300**WM-P3-E		31950		70	Warm white	3000±300k	T5
Ex-KTK360**CH-P3-E		51120	360	70	Cool white	5700±300k	T5
Ex-KTK360**NH-P3-E		51120		70	Natural white	5000±300k	T5
Ex-KTK360**NH-P3-E		51120		70	Natural white	4000±300k	T5
Ex-KTK360**WM-P3-E		46008		70	Warm white	3000±300k	T5
Ex-KTK320**CH-P4-E		46400	320	70	Cool white	5700±300k	T5
Ex-KTK320**NH-P4-E		46400		70	Natural white	5000±300k	T5
Ex-KTK320**NH-P4-E		46400		70	Natural white	4000±300k	T5
Ex-KTK320**WM-P4-E		41760		70	Warm white	3000±300k	T5
Ex-KTK400**CH-P4-E		58054	400	70	Cool white	5700±300k	T5
Ex-KTK400**NH-P4-E		58054		70	Natural white	5000±300k	T5
Ex-KTK400**NH-P4-E		58054		70	Natural white	4000±300k	T5
Ex-KTK400**WM-P4-E		52248		70	Warm white	3000±300k	T5
Ex-KTK480**CH-P4-E		69120	480	70	Cool white	5700±300k	T5
Ex-KTK480**NH-P4-E		69120		70	Natural white	5000±300k	T5
Ex-KTK480**NH-P4-E		69120		70	Natural white	4000±300k	T5
Ex-KTK480**WM-P4-E		62208		70	Warm white	3000±300k	T5

Remarks: 1.The first * stands for Operating Voltage including default -100-277VAC,D-347-480VAC ,E-20-30VAC.
2.The second * stands for Candela Distribution including H3V3,H5V5,H6V6.

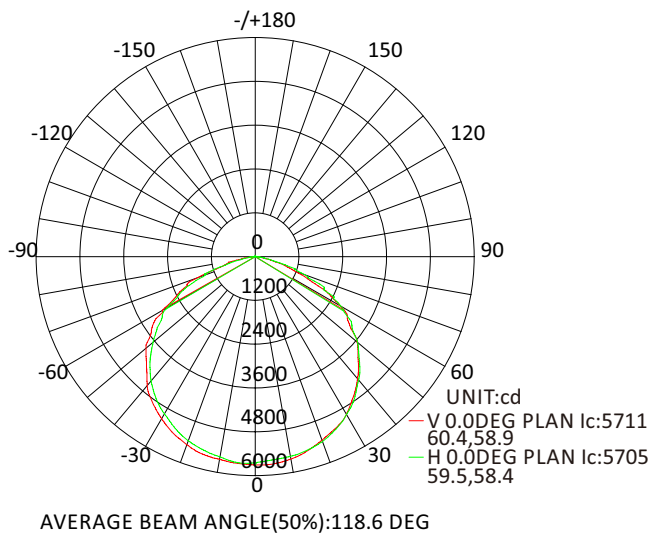
Candela Distribution



H3V3(40°)/High efficacy LED Source



H5V5(80°)/High efficacy LED Source



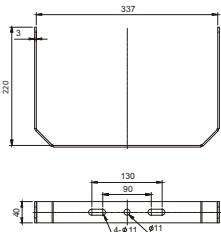
H6V6(120°)/High efficacy LED Source



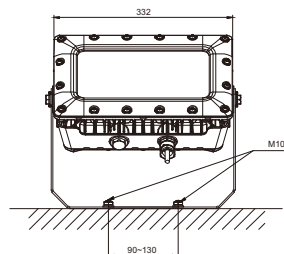
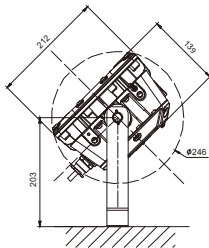
Installation Method

Stanchion mount / Wall mount

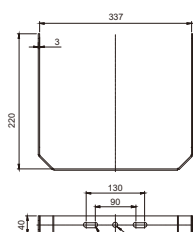
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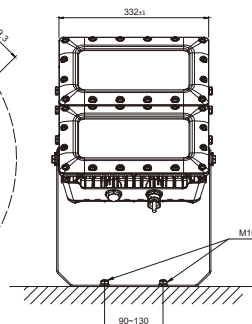
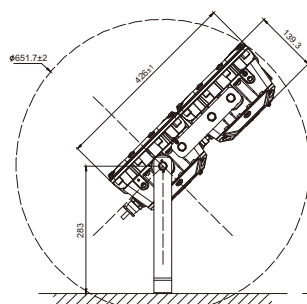
360°ROTATION(EVERY7.5° IS A ROTATION ANGLE),



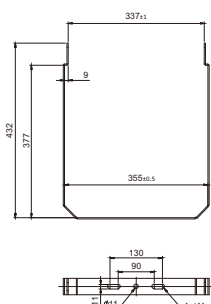
Single lamp



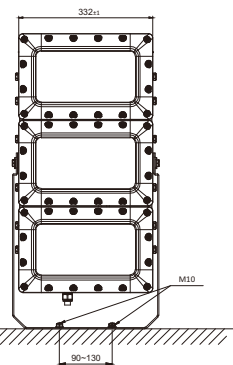
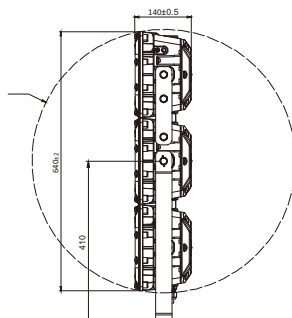
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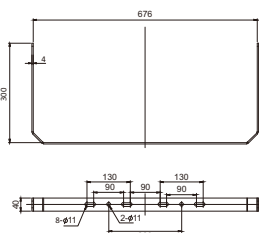
Two lamps



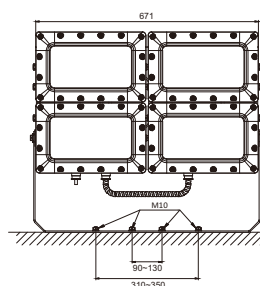
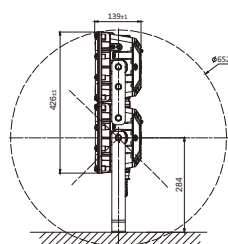
360°ROTATION(EVERY7.5° IS A ROTATION ANGLE),



Three lamps



180°ROTATION(EVERY7.5° IS A ROTATION ANGLE),

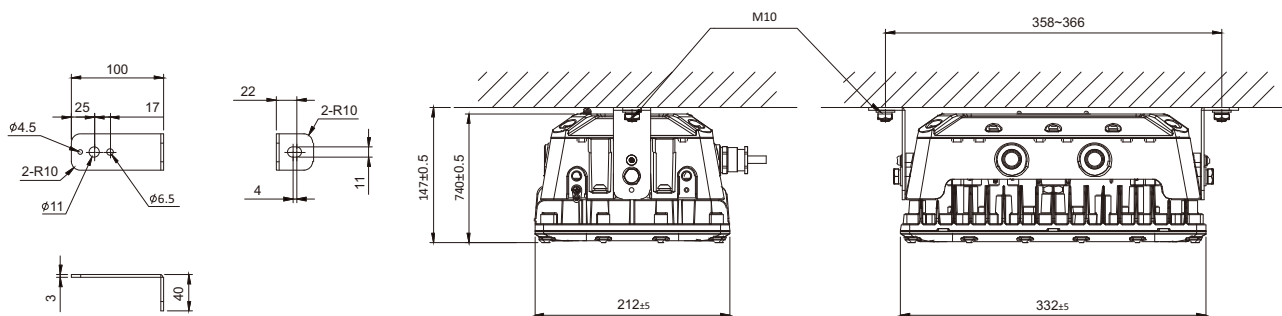


Four lamps

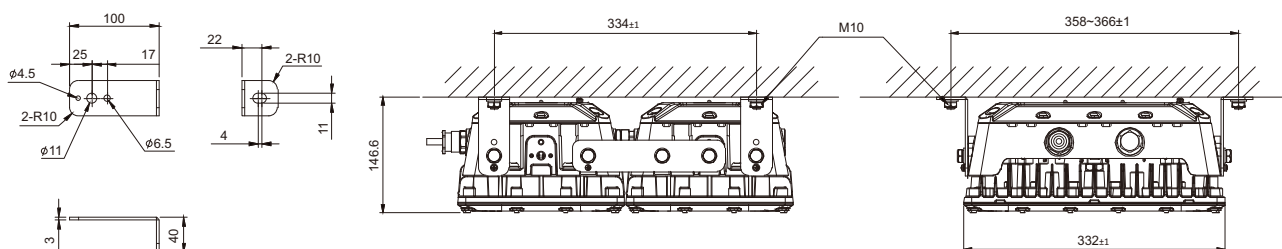
Installation Method

Ceiling Mount:

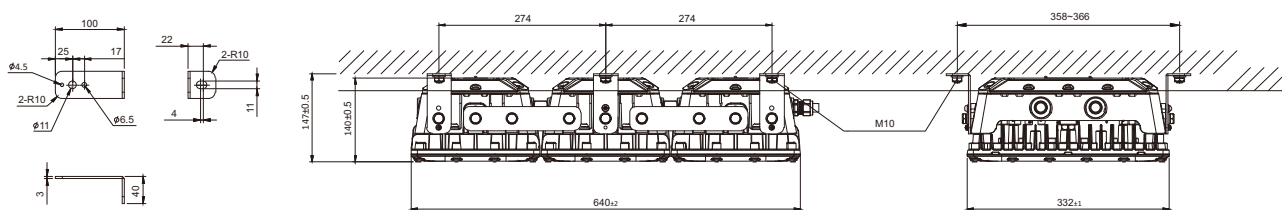
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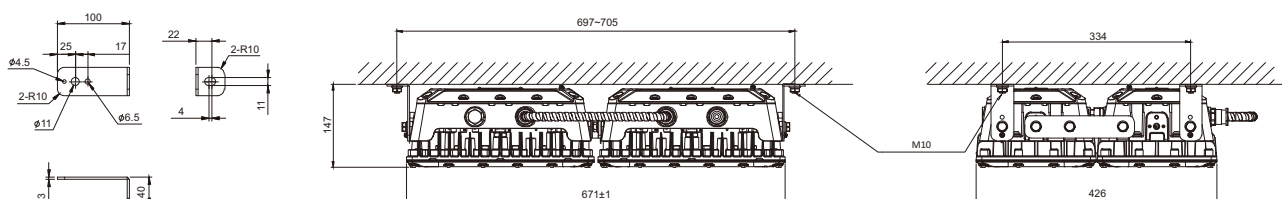
Single lamp



Two lamps

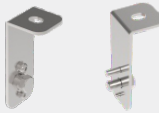


Three lamps



Four lamps

Optional Parts

No.	Installation accessories	Part No.	Picture	Material	Weight(Kg)	QTY		Remark
1	Ceiling bracket	BR-TK-SUS316		SUS316	0.4	Single lamp	1	
						Two lamps	2	
						Three lamps	3	
						Four lamps	2	
2	Stanchion bracket	SBT-TK-SUS316		SUS316	0.8	1		
3	Stanchion bracket	SBT-TK-2-SUS316		SUS316	1	1		
4	Stanchion bracket	SBT-TK-3-SUS316		SUS316	1.6	1		
5	Stanchion bracket	SBT-TK-4-SUS316		SUS316	2	1		