



TITAN Series

LED Explosion Proof Lighting

high performance LED explosion proof lighting is designed to be installed in areas where flammable gases, vapors, or dusts are present in sufficient quantities to create a risk of explosion or fire. Reliable and long-lifetime LiFePO4 battery providing 90-minute runtime for emergency applications.

Compliance

NEC/CEC Standard

UL 844 Hazardous Locations

- Class I Division 1, Group C, D
- Class I Division 2, Group A, B, C, D
- Class II Division 1, Group E, F, G
- Class II Division 2, Group F, G
- Class III
- Class I, Zone 1, Group IIB
- Class I, Zone 2, Group IIC

CSA C22.2 No.137

CSA C22.2 No.141

CSA C22.2 No.250.0:21

UL924

UL 1598 Wet Locations

UL 1598A Marine Outside Type (Salt Water)

UL 8750 LED Safety

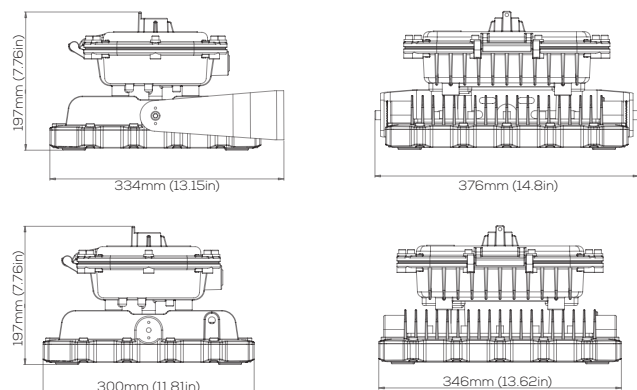
Paint Spray Booth

ABS, FCC

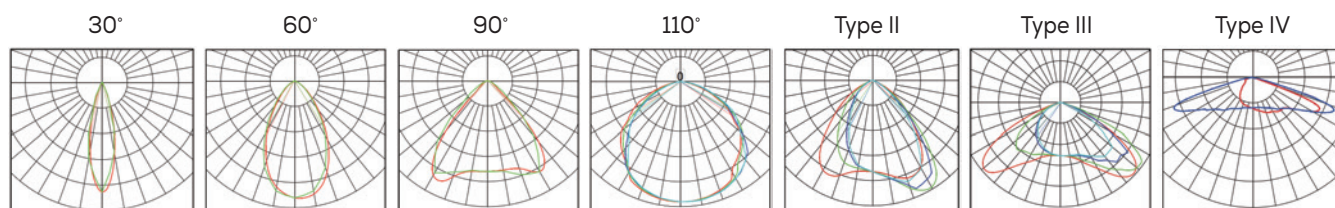
IP66/67 | IK09 | 5G | NEMA 4X

Dimensions

unit: mm(in)



Beam Distribution



Technical Data

Electrical

Rated Power	80W / 100W
Input Voltage	120-277V/AC
Input Frequency	50/60Hz
Power Factor	> 0.95
Driver Efficiency	≥ 90%
DC output Ripple & Noise	<200mVP-P

Emergency Back-up

Emergency Output	15W, ≥2,420lm 9W, ≥1,350lm (cold weather)
Recharging time	24 hours
Battery Backup Runtime	≥90 mins

Optical

Lumen Output	12800lm ~ 16000lm
Luminous Efficacy (Lumens per Watt)	160 lm/W
Beam Angle	30° / 60° / 90° / 110° / T2 / T3 / T4
Correlated Color Temperature (CCT)	Amber 2700K 3000K 4000K 5000K
CRI	Ra>70

Environmental

Ambient Operating Temperature	0°C ~ +50°C -20°C ~ +50°C (cold weather)
Ambient Operating Humidity	10%-90% RH
Atmospheric pressure	86~106KPa

Technical

Lens Material	Tempered glass
Mounting Options	Pendant / Ceiling / Wall mount / Stanchion / U-Bracket
Cable Entries	3/4" NPT, 1-1/4" NPT, 1-1/2" NPT
Net Weight	11.5kg (25.35 lbs)

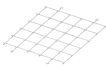
Ordering Information and Mounting Accessories

TITAN	16	U	C	1	110	NW	TG	PD	GR	XX
Model TITAN		Voltage U -120-277V/AC			Optics 30 - 30° 60 - 60° 90 - 90° 110 - 110° T2 - T2 T3 - T3 T4 - T4	Color Temp WW - 2700K (Warm white) SW - 3000K (Soft white) NW - 4000K (Neutral white) CW - 5000K (Cool white) AM - Amber		Mount Style PD - Pendant mount (3/4" NPT) TB1 - Trunnion bracket (3/4" NPT) W90 - Wall mount 90° W25 - Wall mount 25° S90A - Stanchion-90° (1-1/4" NPT) S90B - Stanchion-90° (1-1/2" NPT) S25A - Stanchion-25° (1-1/4" NPT) S25B - Stanchion-25° (1-1/2" NPT) CJB - Ceiling Junction Box		Accessories EMB - Emergency battery backup WGS1 - Wire guard SC1 - Safety cable VS1 - Dark sky visor SP10U - 10KV surge protector (100-277V) *Standard SP20U - 20KV surge protector (100-277V) PBC48 - Pipe Clamp (M8*48mm) for pole Ø 1 7/8" (48mm) PBC60 - Pipe Clamp (M8*60mm) for pole Ø 2 3/8" (60mm) CAB - 3' SEOOW-18/3 Cord CGL - Cable Gland 3/4" NPT
Power 13 - 12,800 lm (80W) 16 - 16,000 lm (100W)		Temp. Ambient (blank) - Not Required (0-50°C) C - Cold weather (-20-50°C)		Ex. Level 1 - C1D1, C2D1 2 - C1D2, C2D1 3 - None Hazardous		Lens TG - Clear glass FG - Frosted glass		Color GR - Gray		

Mounting Options

 PD (Standard) Pendant Mount 3/4" NPT A356	 TB1 Trunnion Bracket 3/4" NPT A356	 W90 Wall mount 90° 3/4" NPT A356	 W25 Wall mount 25° 3/4" NPT A356
 S90A Stanchion mount 90°, 1-1/4"NPT	 S25A Stanchion mount 25°, 1-1/4"NPT	 S90B Stanchion mount 90°, 1-1/2"NPT	 S25B Stanchion mount 25°, 1-1/2"NPT
 CJB Junction Box 3/4"NPT			

Accessories

 TB1 Trunnion Bracket 3/4" NPT	 WGS1 Stainless steel wire guard	 SC1 Stainless steel safety cable Ø 8 (4mm)	 VS1 Stainless steel dark sky visor
 PBC48 Pipe Clamp (M8*48mm) for pole Ø 1-7/8"	 PBC60 Pipe Clamp (M8*60mm) for pole Ø 2-3/8"	 CAB 3' SEOOW-18/3 Cord (Factory installed) Applicable to C1D2	 CGL Cable Gland 3/4" NPT Suitable for C1D2
 SP10U 10KV Surge Protector (100-277V) *Standard	 SP20U 20KV Surge Protector (100-277V)	 PS Pole Stanchion 2-3/8" (60mm)	