

The Low Voltage Tank Lighting System is a durable, robust, highly efficient temporary lighting system that is certified for safe use within ATEX/IECEX/UKEX Zone I, Zone 21, Zone II and Zone 22 potentially explosive atmospheres and, is NATO coded. Able to use within a T4 classification, the system comprises of a power supply enclosure providing the ability to utilise 4x 12V low voltage Pioneer LED lights to deliver an intense, 6000K, daylight-white output totalling 12000 lumens at source. The system offers a light source service life designed to give up to 100,000 hours and above.



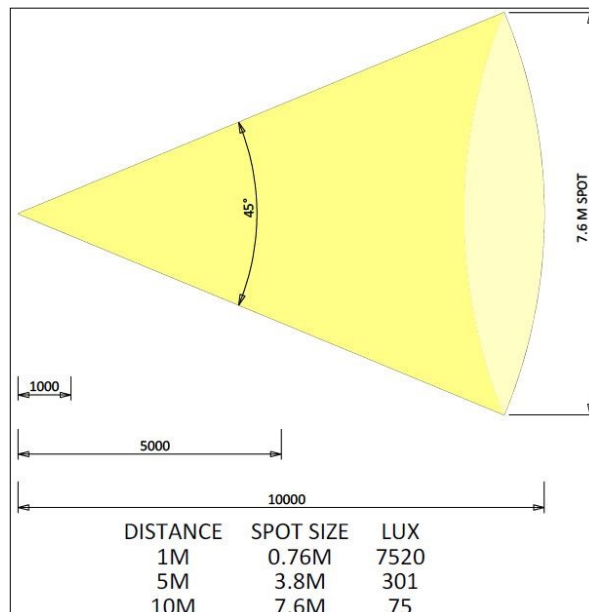
The Pioneer LED utilises high efficiency LED drivers to deliver a safe, continuous output whilst providing a high level of illumination. The Pioneer LED is ideal for the set-up of temporary lighting installations on walkways, corridors, scaffolding, tents, tanks and vessels. The intrinsically safe circuits provide overcurrent, overvoltage, thermal and polarity protection. The power supply enclosure can be powered with 110Vac and 230Vac supplies at either 50 or 60 Hz with a small current draw of up to 0.4A per light. The voltage within the power supply enclosure is transformed down to supply each light with an extra low voltage of 12V. The power supply enclosure is supplied within a protective frame with a 15 metre length of cable with a Zone I EX plug (CEAG/STAHL/ATX) to suit the worksite or installation. Each Pioneer is provided with 20 metres of cable as standard, but can be extended to suit the lighting application required. The Pioneer LED comes supplied with a universal bracket for all of the mounting options, of which include: magnet, scaffold, wall and floor stand.

Built from high pressure, die-cast aluminium and specially coated, the power supply enclosure and the Pioneer LEDs are able to withstand the harsh, corrosive conditions expected in potentially hazardous environments. The Pioneer and power supply enclosure are both rated to IP66 and IP67 giving protection from the ingress of dust and powerful jets of water. The enclosures also protect the system from up to 1 metre of submersion in water. The 3mm thick copolymer lens on the Pioneer is impact resistant and can be provided with anti-static covers. The complete design and build is approved and certified by Intertek to the following standards:

60079-0:2018+A11:2024; 60079-7:2015+A1:2024;
60079-11:2024; 60079-18:2015+A1:2017;
and 60079-31:2024.



TECHNICAL DATA	
Area of Use:	Zones I and II (Gas), Zones 21 and 22 (Dust)
EX Marking (Gas):	EX II 2G Ex eb ib mb IIC T4 Gb
EX Marking (Dust):	EX II 2D Ex ib mb tb IIIC T135C Db
ATEX Certificate:	ITS20ATEX305480X
IECEX Certificate:	IECEX ITS 20.0013X
UKEX Certificate:	ITS25UKEX0889X
Protection Concepts:	eb - Increased Safety, ib - Intrinsic Safety mb - Encapsulation, tb - Dust-tight Enclosures
Light Output:	12000 lumens
Light Source:	16x LEDs (x4)
Light Duration:	Continuous Operation
Light Source Service Life:	Up to 100,000 Hours
Flood Angle:	45° (Customisable upon Request)
Supply in:	110Vac/230Vac at 50/60 Hz
Voltage Supply to Light:	12V
Current Draw per System:	0.8A at 230V _{ac} 1.6A at 110V _{ac}
Ingress Protection:	IP66/67
Operating Temperature Range:	-20°C to +45°C
Weight:	10kg per Light c/w Cable, 6kg per Frame
Dimensions:	269mm x 214mm x 114mm (Pioneer) 500mm x 417mm x 370mm (Frame)
NSN Code:	6230-99-671-6383



BME Nitech Ltd

T: 01224 825320 E: sales@bmenitech.co.uk W: www.bmenitech.co.uk