

The FLP Bay Light is a high-performance luminaire designed to provide uninterrupted and uniform lighting for industrial applications, making it an ideal solution for areas with mounting heights above 6 meters. It ensures a safe working environment with advanced specifications and comfortable illumination, enhancing worker productivity and reducing errors. Its specially designed aluminum heat sink combines aesthetics with excellent thermal management, delivering consistent light output and achieving a lifespan of over 50,000 hours.



FEATURES & BENEFITS

- Luminaire efficacy reaches 130 lumens/Watt, which gives more than 60% of energy saving with full compliance to Industrial lighting safety standards.
- Maintain "Zero Air Gap" between MCPCB and extruded aluminium modules ensures fastest heat dissipation.
- LM-80 compliant high efficiency & Photo biologically safe LEDs
- High performance electronic driver with 440V protection for 8 Hrs. (Phase to Phase).
- High Voltage Cut-off @ 310 ± 15V with Auto Restart feature.
- Along with the additional 10kV/5kA built-in surge protection device.
- Driver Compartment designed to suit top maintenance.
- Vibration, dust and heat resistant.
- No harmful UV & IR radiation
- Median useful life $L_{70}B_{50}$ 50000 hours
- IP66 level of protection against dust penetration & high pressure water jets from any direction.

PRODUCT SPECIFICATIONS

Housing & Glass Frame :

Epoxy powder coated finished Cast aluminium housing (heat sink) for effective thermal management, sturdiness & excellent corrosion resistance. Heat resists tempered glass sealed with glass ring and fixed to the housing with SS Allen bolts. Neoprene gasket is used for maintaining ingress protection.

Driver Compartment :

Epoxy powder coated finished Cast aluminium housing for sturdiness & excellent corrosion resistance. Neoprene gasket is used for maintaining ingress protection.

Light source :

High efficiency long life LED module with EMC package SMD type LED mounted on MCPCB. Lumen efficacy of LED ≥160 lm/W with beam angle 120° for uniform distribution.

Electronic Driver :

Built in potted constant current multistage isolated LED driver with < 10% THD, PF ≥0.98, Output Open /Short Circuit protection, Over Voltage protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/Sec 13 and BIS comply.

Mounting & Maintenance :

Surface mounting using fixed MS bracket of thickness 4.0 mm provided with the fixture by 3 circular slots of 12mm Ø at center distance of 60mm. Recommended mounting height with suitable in ground reinforcement is 6-8 m.

APPLICATIONS :

- Oil Rings & Refineries
- Mines
- Chemical Factories
- Petrochemical Industries

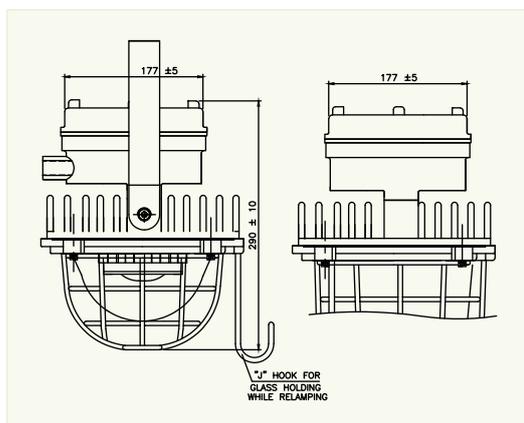
Note: Bay Light Luminaires are provided with additional 10kV Built in surge protection device (SPD).

TECHNICAL DATA

Product Code	Ordering Code	LED Wattage	System Wattage (W)	Rated Voltage (V)	Mains Current (A)	Lumens
PLFB 538 / 100	PLFB 538 / 96 / 100	87	100	230	0.46	12600
PLFB 538 / 150	PLFB 538 / 144 / 150	131	150	230	0.69	19000

Note: Warranty Voids for LED fixtures including Drivers, if individual points of installations are not provided with proper Earthing

TECHNICAL DRAWING



DIMENSION

Product Code	Dimension in mm		Approx Weight
	W	H	
PLFB 538 / 100	240 Ø	250	6.400
PLFB 538 / 150	240 Ø	285	7.800