

Area star was designed to help those responsible for lighting our world succeeds in their energy conservation goals. It's specially designed extruded aluminium heat sink incorporates aesthetics and excellent thermal management to achieved an over 50,000 hour lifespan, to minimize maintenance requirements and maximize performance. Area star is a range of floodlights that lets you choose the exact lumens you need for your application. The wide choice of optics ensures maximum application coverage, outstanding lux and significant energy savings.


FEATURES & BENEFITS

- Luminary efficacy reaches 125 lumens/Watt, gives more than 60% of energy saving with full compliance to area lighting safety standards.
- Best Thermal Management by Maintain the "Zero Air Gap" between MCPCB and aluminium modules for fastest heat dissipation.
- LM-80 compliant high efficiency ceramic package & Photo biologically safe LEDs
- High performance electronic driver with 440V protection for 8 Hrs. (Phase to Phase).
- Along with the additional 10kV/5kA built-in surge protection device.
- Superior W/m² performance delivered through different optics for greater flexibility to fit different road applications.
- Multiple lumen packages and optics to suit most area lighting applications.
- Driver Compartment designed to suit top maintenance.
- High quality cool, neutral and warm white light with high colour consistency.
- Vibration, dust and heat resistant.
- No harmful UV & IR radiation
- IP66 level of protection against dust penetration & high pressure water jets from any direction.
- Median useful life $L_{70B_{50}}$ 50000 hours

PRODUCT SPECIFICATIONS
Housing & Glass Frame :

Epoxy powder coated finished Extruded aluminium housing (heat sink) for effective thermal management, sturdiness & excellent corrosion resistance. Tempered protective toughened glass sealed with frame and fixed to the housing with SS screws. Silicon gasket and Cable gland is used for maintaining ingress protection

Optics :

Optional High efficiency polycarbonate Lens of (30°/60°) for narrow & wide beam angle to ensure better uniformity of symmetrical light distribution.

Note: Area Star Luminaries are provided with additional 10kV built in surge protection device.

Light source :

High efficiency long life LED module with Ceramic package SMD type LED mounted on MCPCB. Lumen efficacy of LED ≥ 165 lm/W and viewing angle of 120° to ensure better uniformity.

Electronic Driver :

Powered by inbuilt, constant current multistage isolated LED driver with < 10% THD, PF ≥ 0.98 , Output Open /Short Circuit Protection, Over Voltage protection, 6.5kV Surge Voltage protection & other safety tests as per IS 15885 Part-2/Sec 13 and BIS comply.

Mounting & Maintenance :

Wall or surface mounting using adjustable MS cradle of thickness 3.0 mm provided with the fixture by 3 circular slots of 10mm \varnothing at center distance of 60 mm.

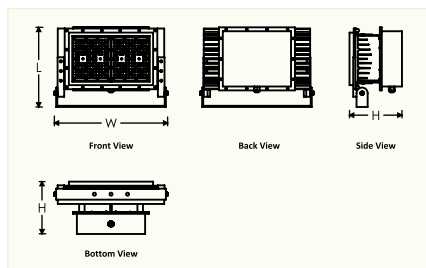
APPLICATIONS :

- Airports
- Yard lighting
- Industrial areas
- Large recreational sports facilities
- Roundabouts and motorway junctions

TECHNICAL DATA

| Product Code | Ordering Code | LED Wattage | System Wattage (W) | Rated Voltage (V) | Mains Current (A) | Lumens |
|----------------|----------------------|-------------|--------------------|-------------------|-------------------|--------|
| PLFL 512 / 100 | PLFL 512 / 40 / 700 | 87 | 100 | 230 | 0.46 | 12550 |
| PLFL 512 / 150 | PLFL 512 / 60 / 700 | 131 | 150 | 230 | 0.69 | 18800 |
| PLFL 512 / 200 | PLFL 512 / 80 / 700 | 174 | 200 | 230 | 0.92 | 25100 |
| PLFL 512 / 300 | PLFL 512 / 120 / 700 | 261 | 300 | 230 | 1.37 | 37600 |

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 |
|----------------|-----------------|-----|-----|---------------|
| | L | W | H | |
| PLFL 512 / 100 | 285 | 250 | 190 | 4.900 |
| PLFL 512 / 150 | 285 | 355 | 190 | 7.000 |
| PLFL 512 / 200 | 285 | 385 | 190 | 7.100 |
| PLFL 512 / 300 | 285 | 530 | 190 | 9.400 |