



LED Road light 100W

The Road-light comes in different powers to meet the demands of diverse street lighting applications. They provide general area lighting and improve the overall illumination quality and colour reproduction. The slim, low profile design adds architectural appeal to street lighting application with crisp uniform white light that offer high performance and maximizing energy savings. Equivalent to 250W conventional street lights.

Features

- Cost-effective solid-state solution for street lighting applications, replacing high wattage luminaires.
- High Efficiency up to 170LM per watt LED delivers superior performance.
- Streamlined design to reduce wind resistance.
- Flame retardant casing.
- 6KV Line-Line and 10KV Line-Earth surge protection and 3G vibration rated.

Benefits

- Instant start up
- No Flickering, No Humming
- No emission of IR and UV rays
- Long operating life of more than 50,000 hours for the LED ensures the system to be low on maintenance
- Environment friendly, does not contain mercury (RoHS)

- Buckle design for easy maintenance and tool-free hinged removable door.
- Dual mounting option – Post top and Side entry installation design.
- UV stabilized polyester powder paint finish for durability and corrosion resistance.
- Auto electrical disconnection with built in circuit breaker, tool free electrical gear tray.
- Levelling adjustments to mounting from -15 degree to +15 degree.

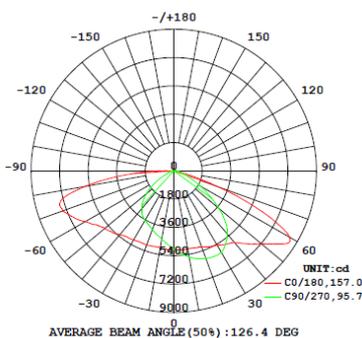
Applications

- Highways, airports, factories, warehouses and parking areas.

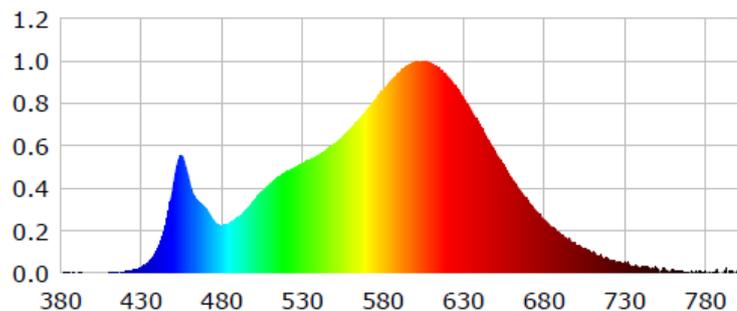
Specifications

| | | | |
|------------------------|---|-----------------------|---|
| Model No. | S05335-100 | Input Voltage | 100-277VAC |
| Light Source | SMD LED, Lumileds 5050 | Frequency | 50/60Hz |
| Power | 100W | THD | <10% |
| Luminous efficacy | 160LM/W | Power factor | >0.95 |
| Luminous flux | 16000LM | Operating temperature | -20 ⁰ to 50 ⁰ C |
| CCT | 3000K (830) | CRI | >70 |
| Beam Angle | Type II (85x145) Degree | Ambient Humidity | 10% to 90% |
| Life | 50,000 Hours | Surge protection | 6kV differential mode 10kV common mode |
| Intelligent Control | Photocell / DALI / 1-10V (optional) | IK rating | IK08 |
| Fixture Colour | Silver Gray / black | IP Rating | IP65 |
| Dimension | L481 x W272 x H99 mm | Mounting | On poles (Post top or Side entry) |
| Mounting pole diameter | 60mm | Adjustable boom angle | -15 ⁰ - +15 ⁰ |
| Material | Aluminium die casting, PC lenses, glass cover | Warranty | 5 Years |
| Weight | 5.75 Kg | Certifications | CE, RoHS, LM79, UL |

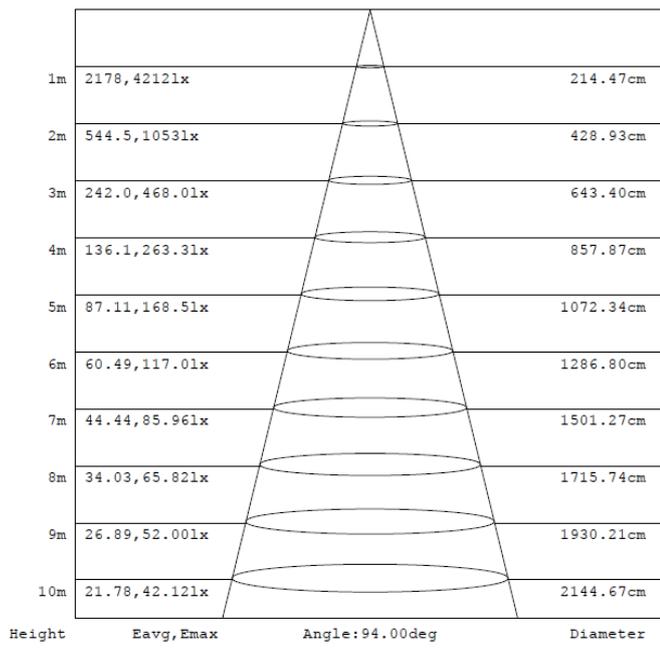
Light distribution diagram



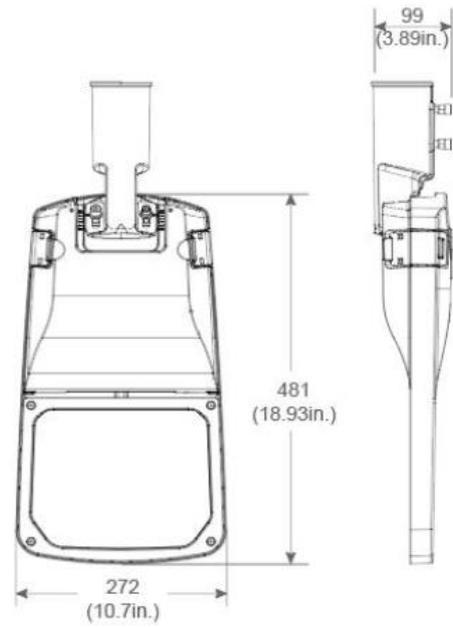
Photometric data



Lux level diagram



Dimensional drawing



Installation methods



Side entry



Post Top

Smart structure - Tool free maintenance



Control gear / LED driver compartment with tool free maintenance design

Product Pictures

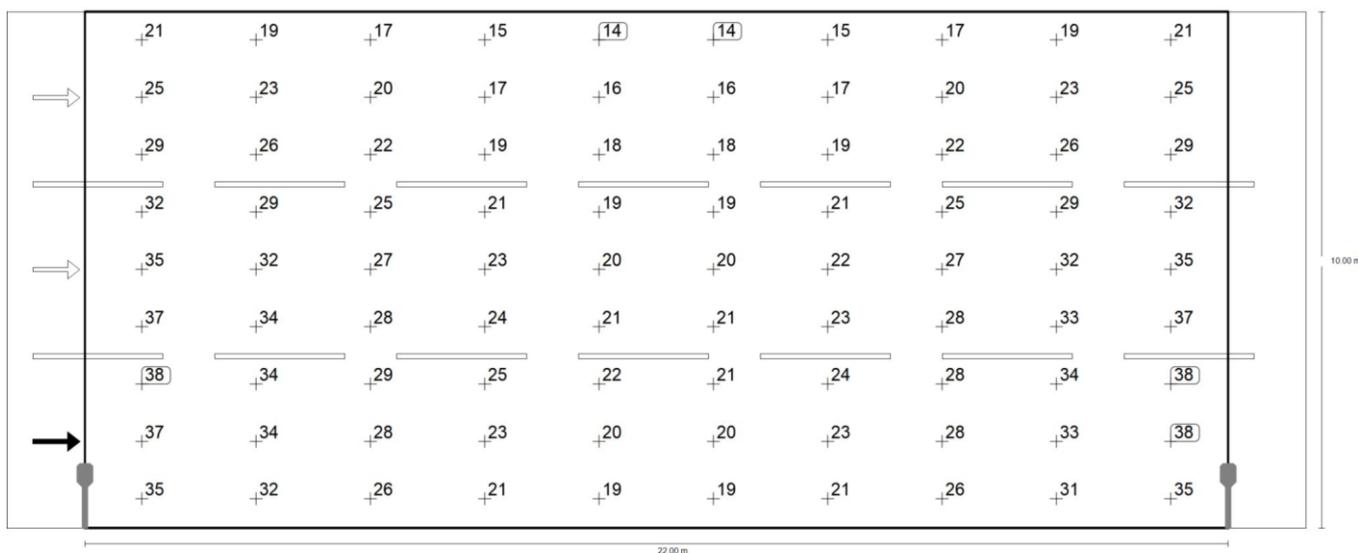


Gray colour fixture

Lighting calculations in Dialux simulation.



Distance between Poles: 22 Meter, Pole height: 8.5 Meter, Boom inclination: 12.0°, Arm length: 1 meter
 Lamp power: 100W max, Width of road: 10 meters, lux measured at 8.5 meter from light source



Maintenance value, horizontal illuminance [lx] (Value grid) measured on the road, 8.5 meter from light source

Maintenance value, horizontal illuminance

| E_{av} | E_{min} | E_{max} |
|----------|-----------|-----------|
| 25.1 lx | 14.1 lx | 38.5 lx |