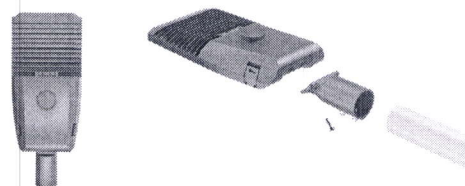
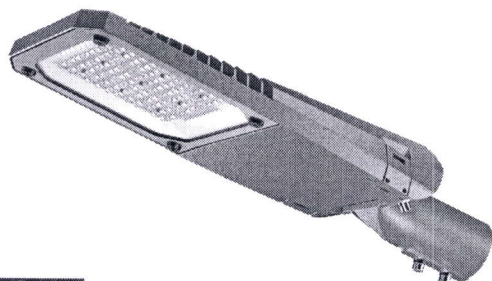


## SOLIA LED Street Light Datasheet



SOLIA LED Street light series is a flexible, easy to maintain LED street light lantern. It is the simplest platform to achieve optimal balance between performance and cost. The luminaire is specially designed for ME3~5 type roads applications.

### Benefits

Dual power source

- AC versions provide ultimate flexibility on deployment

IP66 protection and robust design

- Robust mechanical design for extreme outdoor environment Easy to maintain

High efficacy

- Up to 150 lm/W high efficacy

Professional optical design

- Best use of light to the target area while not creating glare to driver and environment

Long lifetime

- 100,000 hours lifetime saving maintenance cost

Environmental friendly

- No hazardous materials

### Applications

- Industrial roads
- Parking lots
- Residential roads
- Rural roads

### Components list

- EMC leds base 3030 CREE/Osram brand
- Certified led drives brand TRIDONIC/OSRAM
- High grade aluminium alloy housing

**CREE** ⇄

**TRIDONIC**

**OSRAM**

**VS LIGHTING SOLUTIONS**

**SAMSUNG**



# SOLIA LED Street Light

## Technical Data

### Optical Specifications

|               |                                                                                         | 90W                 | 100W    | 110W    | 125W    | 200W    |
|---------------|-----------------------------------------------------------------------------------------|---------------------|---------|---------|---------|---------|
| Luminous Flux | 3000K                                                                                   | 12888lm             | 14644lm | 16108lm | 17900lm | 27255m  |
|               | 4000K, 5700K                                                                            | 13657lm             | 15094lm | 16603lm | 18810lm | 30912lm |
| Efficiency    | 3000K                                                                                   | 135-142 lm/W        |         |         |         |         |
|               | 4000K, 5700K                                                                            | 146-158 lm/W        |         |         |         |         |
| CCT           |                                                                                         | 3000K, 4000K, 5700K |         |         |         |         |
| CRI (Ra)      |                                                                                         | >70/80              |         |         |         |         |
| SDCM          |                                                                                         | 5                   |         |         |         |         |
| Beam Angle    | Type II/III (long), IESNA Type II & III (medium), IESNA Type I (short), EN13201 M-class |                     |         |         |         |         |

### Electrical and Mechanical Specifications

|                           |                                                |         |                     |          |          |       |
|---------------------------|------------------------------------------------|---------|---------------------|----------|----------|-------|
| Input Voltage             | 220-240V AC 50/60Hz,                           |         | 220-240V AC 50/60Hz |          |          |       |
| Power Consumption         | 88-90W                                         | 97-100W | 107-110W            | 122-125W | 197-200W |       |
| Power Factor              | >0.95                                          |         |                     |          |          |       |
| Total Harmonic Distortion | <15%                                           |         |                     |          |          |       |
| ESD Protection            | Contact 4KV, Air 8KV                           |         |                     |          |          |       |
| Surge Protection          | Line-to-line 5KV, Line-to-ground 10KV optional |         |                     |          |          |       |
| Dimensions                | Length                                         | 535mm   | 590mm               | 620mm    | 690mm    | 800mm |
|                           | Width                                          | 196mm   | 235mm               | 235mm    | 260mm    | 320mm |
|                           | Height                                         | 120mm   | 125mm               | 125mm    | 130mm    | 135mm |
| Weight                    | 3.2kg                                          | 4.6kg   | 4.8kg               | 5.8kg    | 8kg      |       |
| Cover Lens                | PMMA lens                                      |         |                     |          |          |       |
| Housing                   | Die-casting aluminium, RAL9006                 |         |                     |          |          |       |

### System Specifications

|                       |                                                                                                                                                   |         |                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------|
| Power                 | AC                                                                                                                                                | AC only | <b>Energy &amp; diagnostic data:</b><br>acc. DALI parts 251, 252, 253 |
| Dimmable              | ON/OFF, DALI 2, D4I, *time dimming, *1-10V dimming and *PWM dimming<br>(Time dimming, 1-10V dimming and PWM dimming can be customized except 30W) |         |                                                                       |
| Mounting Type         | Side-entry mounting                                                                                                                               |         |                                                                       |
| Operating Temperature | -30°C to +50°C                                                                                                                                    |         |                                                                       |
| Storage Temperature   | -30°C to +85°C                                                                                                                                    |         |                                                                       |
| Environment           | Outdoor (IP66), IK09                                                                                                                              |         |                                                                       |
| Lumen Maintenance     | L90@25°C - 100,000hrs                                                                                                                             |         |                                                                       |
| Safety Approval       | Electrical Protection Class I (AC), Electrical Protection Class III (DC), CB, CQC, RoHS, EHS                                                      |         |                                                                       |
| Warranty Terms        | 10 Years Warranty                                                                                                                                 |         |                                                                       |

Items with \* are non-standard items and are available on request. Specification is subject to change due to continuous improvement.

Due to the special conditions of manufacturing process of LED, the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from typical data.

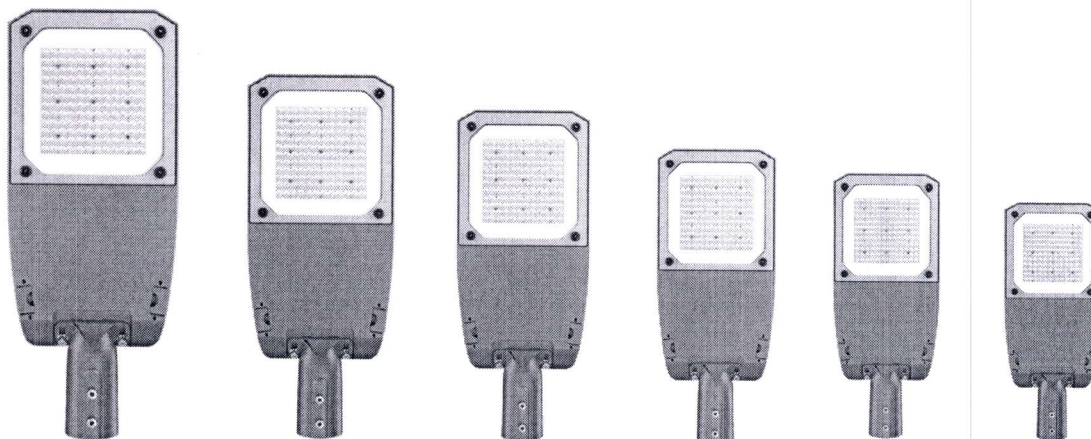
Exceeding maximum ratings for operation voltage will cause hazardous overload and will likely destroy the LED module.

Exceeding maximum ratings for operation and storage temperature will reduce expected life time or destroy the LED module.

# SOLIA LED Street Light

## Physical Data

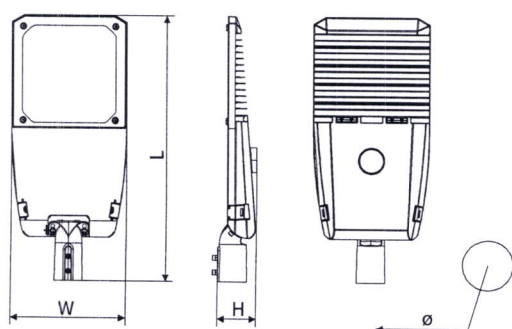
### Mechanical Specifications



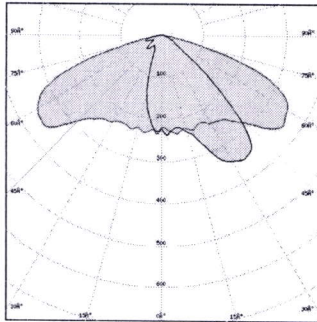
### SPECIFICATIONS

| Model                     | Power     | Lamp Size     | Carton Size   | N. W. (KG) | G. W. (KG) | Pole Diameter(mm) | IP/IK Grade |
|---------------------------|-----------|---------------|---------------|------------|------------|-------------------|-------------|
| Street SOLIA LMSL01-XS28  | 30W-50W   | 492*182*97mm  | 550*230*130mm | 2.4KG      | 2.8KG      | Ø50/Ø60           | IP66 / IK09 |
| Street SOLIA LMSL01-S34   | 60W-90W   | 550*200*97mm  | 600*240*130mm | 3.0KG      | 3.4KG      | Ø60               |             |
| Street SOLIA LMSL01-M42   | 100W-120W | 601*243*105mm | 645*285*130mm | 3.7KG      | 4.2KG      | Ø60               |             |
| Street SOLIA LMSL01-L52   | 120W-150W | 652*263*105mm | 700*300*130mm | 4.4KG      | 5.2KG      | Ø60               |             |
| Street SOLIA LMSL01-XL62  | 150W-180W | 722*314*105mm | 755*350*130mm | 5.5KG      | 6.2KG      | Ø60               |             |
| Street SOLIA LMSL01-XXL74 | 200W-260W | 823*314*105mm | 875*355*130mm | 6.4KG      | 7.4KG      | Ø60               |             |

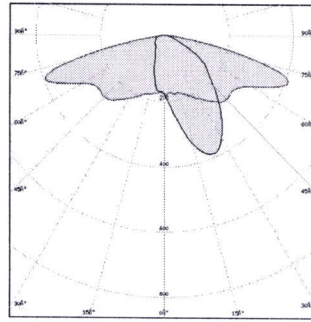
### DIAGRAMS



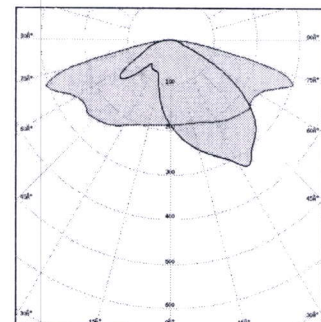
## Photometrics Light Distribution Curve



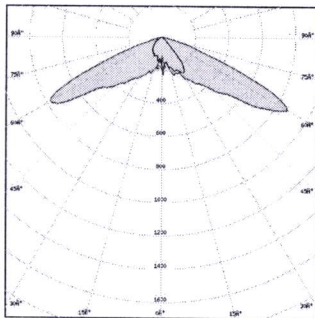
EN13201 M-class



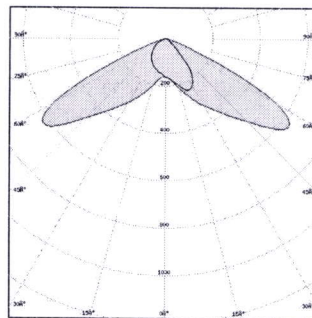
IESNA Type II (medium)



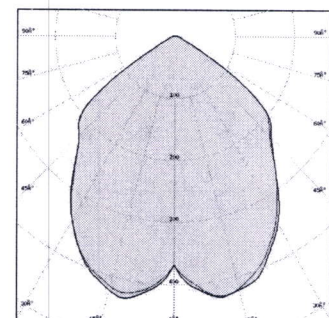
IESNA Type III (medium)



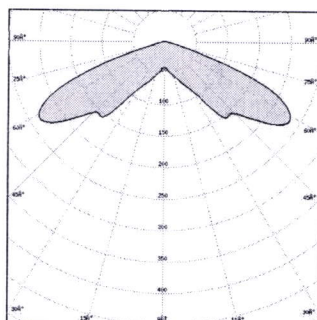
IESNA Type I (short)



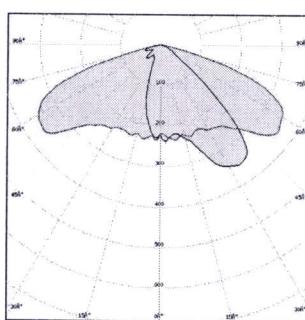
Asymmetric IESNA  
Type I (short)



-90° wide beam for  
industrial applications.



IESNA Type V (square)



EN13201 M-class requirements

Due to the manufacturing processes of LED, the polar candela distribution and distance luminaries only reflect statistical figures and do not necessarily correspond to the actual parameters of individual product that may differ from the typical values.



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