

# VOLTANA 2

## 5136

|           |                   |
|-----------|-------------------|
| Optic     | 5136              |
| Protector | Flat glass        |
| Source    | 16 Samsung LH351C |
| Matrix    | 424572            |



## Characteristics

|             |            |             |             |                  |                    |                   |                       |
|-------------|------------|-------------|-------------|------------------|--------------------|-------------------|-----------------------|
|             |            |             |             |                  |                    |                   |                       |
| 518         | 240        | 109         | 4.6         | IP 66            | IK 08              | I EU, II EU       | 0.019                 |
| Length (mm) | Width (mm) | Height (mm) | Weight (kg) | Tightness level* | Impact resistance* | Electrical class* | CxS (m <sup>2</sup> ) |

\* According to IEC-EN60598 and IEC-EN62262

## Features

The ultimate, cost-effective, performing family of luminaires that pays for itself

- Cost-effective and efficient lighting solution for a fast return on investment
- LensoFlex@2 photometric engine with photometry adapted to various applications
- 5 sizes for flexibility
- Designed to incorporate Owllet control and sensor solutions
- ThermiX@: withstands high temperatures (Ta 50°C)
- Mounting : side entry (42-60 mm) with inclination steps -10° to +5°
- Surge protection 10kV (optional)

## Types of application

- Square and park
- Roundabout
- Residential road
- Urban road

## Information for 1000 lm matrix

|              |      |                      |         |                         |                                   |
|--------------|------|----------------------|---------|-------------------------|-----------------------------------|
| Efficacy (%) | 86.6 | G Class (EN 13201-2) | G3      | Aperture 90-270°        | 28 - 11                           |
| DLOR (%)     | 86.6 | G* (EN 13201 2015)   | G*3     | I 70-80-90-95 (cd)      | 572 - 50 - X - X                  |
| ULOR (%)     | 0.0  | Imax (cd)            | 590     | CIE flux code N 1→5 (%) | 50.9 - 80.3 - 98.2 - 100.0 - 86.6 |
| ULR (%)      | 0.0  | Aperture 0-180°      | 76 - 76 |                         |                                   |

## Photometrical characteristics

| LED count          | Colour code | Current (mA) | Luminaire power (W) | Source flux (lm) | Luminaire output flux (lm) | Luminaire efficacy (lm/W) | Peak (cd) | BUG Rating | Voltage (V) |
|--------------------|-------------|--------------|---------------------|------------------|----------------------------|---------------------------|-----------|------------|-------------|
| Ambient temp = 25° |             |              |                     |                  |                            |                           |           |            |             |
| 16                 | NW 740      | 350          | 18                  | 3040             | 2632                       | 146                       | 1795      | B1 U0 G1   | 230         |
| 16                 | NW 740      | 500          | 26                  | 4195             | 3632                       | 140                       | 2477      | B1 U0 G1   | 230         |
| 16                 | NW 740      | 700          | 37                  | 5594             | 4843                       | 131                       | 3302      | B2 U0 G1   | 230         |
| 16                 | NW 740      | 1000         | 53                  | 7457             | 6457                       | 122                       | 4402      | B2 U0 G1   | 230         |
| 16                 | NW 740      | 1050         | 58                  | 7737             | 6699                       | 116                       | 4568      | B2 U0 G1   | 230         |
| 16                 | WW 730      | 350          | 18                  | 2880             | 2494                       | 139                       | 1700      | B1 U0 G1   | 230         |
| 16                 | WW 730      | 500          | 26                  | 3974             | 3441                       | 132                       | 2346      | B1 U0 G1   | 230         |
| 16                 | WW 730      | 700          | 37                  | 5299             | 4588                       | 124                       | 3128      | B2 U0 G1   | 230         |
| 16                 | WW 730      | 1000         | 53                  | 7065             | 6117                       | 115                       | 4171      | B2 U0 G1   | 230         |
| 16                 | WW 730      | 1050         | 58                  | 7330             | 6346                       | 109                       | 4327      | B2 U0 G1   | 230         |

*Tolerance on flux +- 7% - Tolerance on power +- 5%*

## Summary

### CONCEPT

Family of 6 road LED luminaires

Recommended installation height: between 4.00 and 12.00m

For optimal heat dissipation, the driver and LED engine are in separate compartments and juxtaposed in a horizontal section

### HOUSING & FINISH

- Housing in high-pressure, die-cast aluminium, polyester powder coated
- Colour: RAL 7038

### INSTALLATION

- Luminaire can be fixed by side-entry with a clamp, suitable for 42-60mm diameter
- Built-in inclination steps: -10°, -5°, 0°, 5°
- Post-top adapter diameter 48-60mm or 76mm, tightened with 2 stainless steel screws
- Direct access to the driver compartment with screws for easy maintenance on-site

### OPTICAL UNIT

- Protected against lens degradation by 5mm thick extra-clear hardened glass
- Flatbed PCB with acrylic lens overlay principle
- Various photometric distributions: from narrow road to motorway, medium and large area
- CRI > 70
- ULOR: 0%

### LED lumen depreciation

- Lifetime residual flux @ Tq=25°C @ 100.000 hrs: 350mA & 500mA: 90%; 700mA: 80%; 1A: 70%

### ELECTRICAL

- Class I or Class II
- Input voltage: 120-277V - 50-60Hz
- Power factor > 90% at full load
- Surge protection: 4kV minimum (10kV + 10kA optional)
- Thermal protection on LED PCBA (see Thermix concept)

### STANDARDS & CERTIFICATIONS

- CE
- ENEC
- LM79-80
- ROHS
- Certified for 3G vibration
- All measurements in ISO17025 accredited laboratory

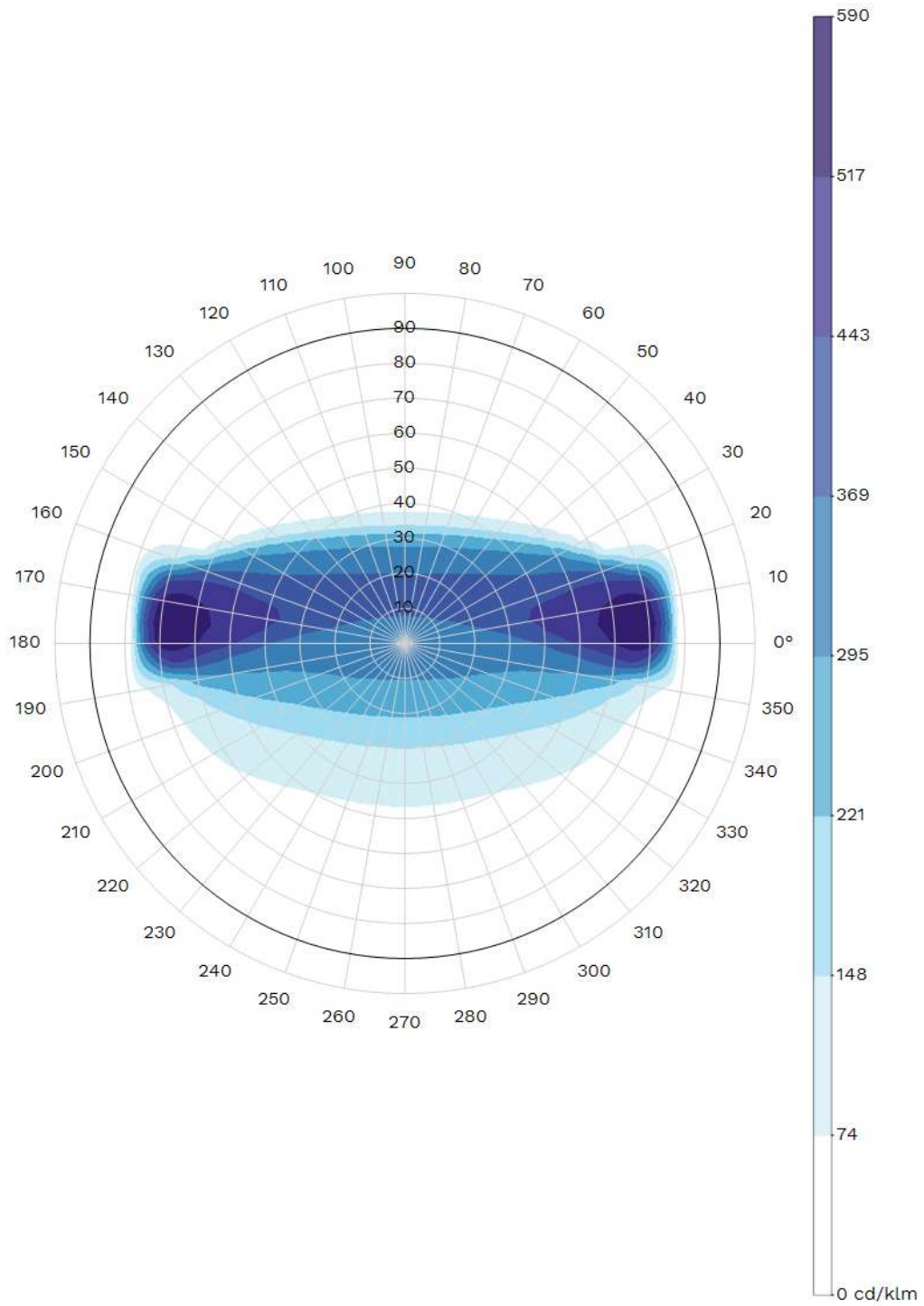
### OPTIONS

- Other RAL or AKZO colours
- Back Light control system
- OWLET remote management
- Custom dimming profile

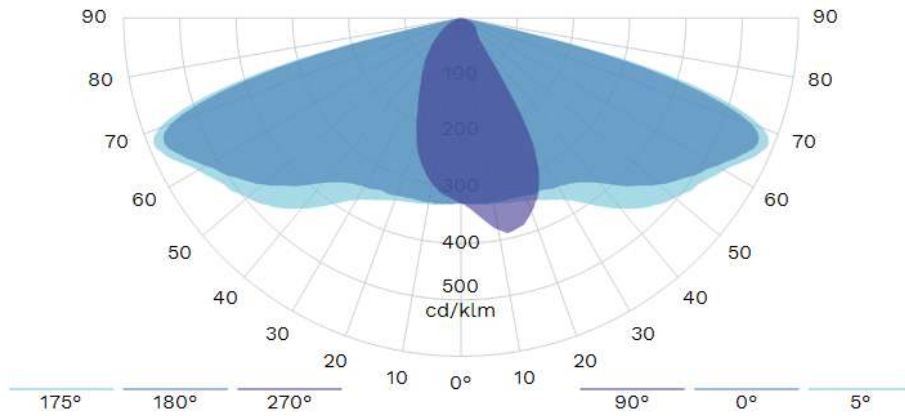
VOLTANA 2 - 5136 - 16 Samsung LH351C - Flat glass - 424572

16/05/2019

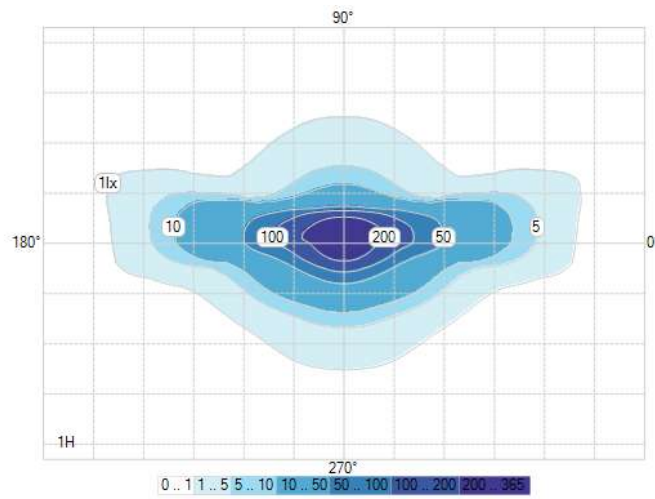
- Photocell



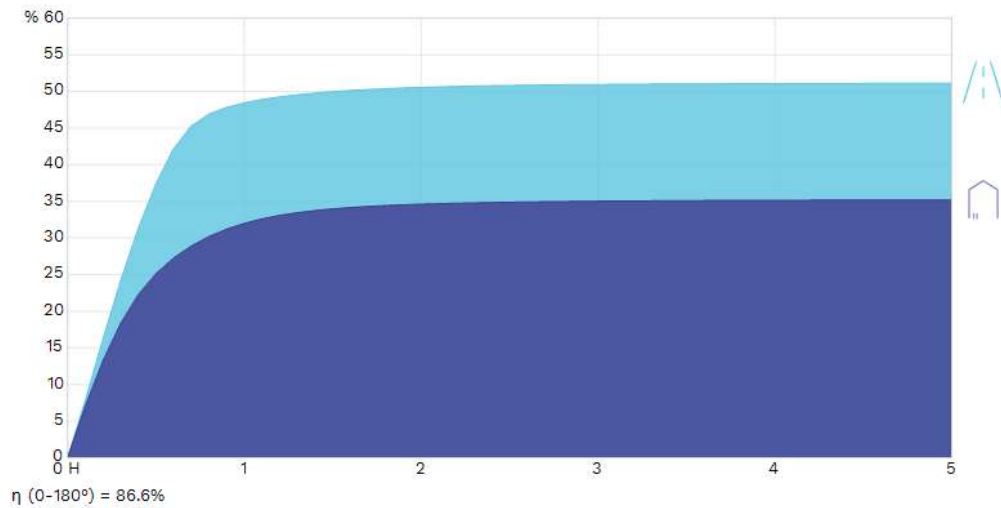
Polar/Cartesian diagram

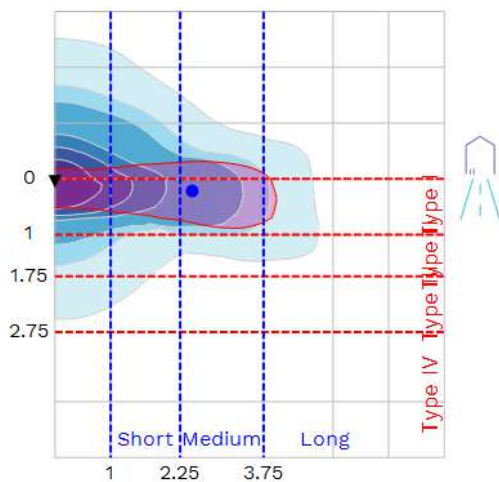


Isolux



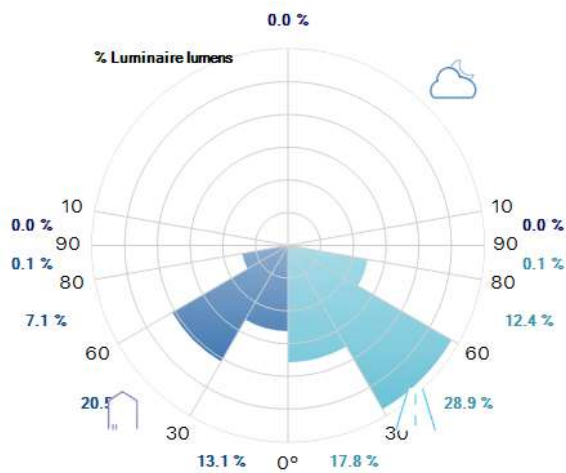
K-Curve



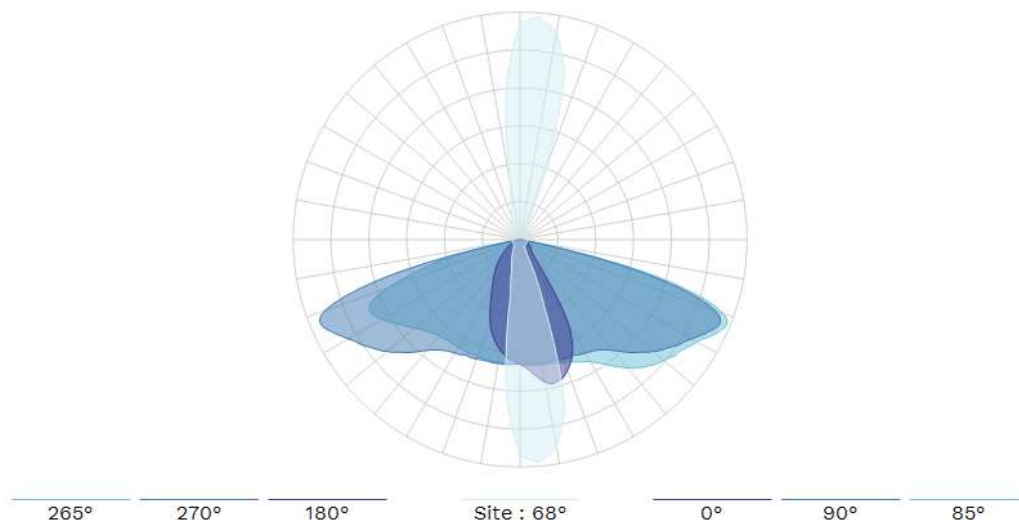


I - Medium

Luminaire classification system (LCS)



Intensity diagram in max Cone and in CPlane



Copyright © 2019 Schröder SA. All rights reserved. Specifications are of an indicative nature and subject to change without notice.

<http://www.schreder.com>