

# TIARA LED L PRO 23900LM 740 RM3 IP66 II CL. DALI (160W)

DETAILED CARD



## TECHNICAL PARAMETERS

|   |        |
|---|--------|
| <b>Index:</b>                             | 924866 |
| <b>Ingress protection:</b>                | IP66   |
| <b>Impact resistance:</b>                 | IK09   |
| <b>Rated power of the luminaire [W]*:</b> | 160    |
| <b>Luminous flux [lm]*:</b>               | 23900  |
| <b>Colour temperature [K]:</b>            | 4000   |
| <b>Color rendering index (Ra) &gt;:</b>   | 70     |
| <b>Electrical protection class:</b>       | II     |
| <b>Optics:</b>                            | RM3    |

## CHARACTERISTICS

TIARA LED PRO a family of LED road luminaires based on a proven form factor. It uses directional multi-lens matrices, made of PMMA, with each lens having the same optics, ensuring that the luminous characteristics remain constant over time. Components from renowned manufacturers and new LED panels contribute to the very high luminous efficacy achieved at the output of the luminaire - reaching 170 lm/W. The two-chamber construction of the luminaire maintains the tightness of the optical chamber during assembly work and allows tool-free access to the electrical equipment chamber. The upper part of the luminaire, has dedicated hinges and a safety cord. Using standard tools, quick and convenient servicing is possible, allowing the replacement of any component without having to dismantle the entire luminaire and make soldered connections. The body and handle are made of die-cast aluminium, powder-coated grey, and have a very high IP66 protection rating and IK09 mechanical impact resistance. Standard features: ergonomic light module suspension system; fully programmable DALI driver; CLO constant lumen maintenance and autonomous 5-stage power reduction functions available; NTC overheating protection; filter to prevent condensation; connection terminals; tool-free access. Additional options: NEMA, ZHAGA connectors; interfacing with control systems, RCR motion sensor; additional SP10kV protection outside the power supply, on/off power supply without power reduction function; knife disconnecter to disconnect voltage if the electrical compartment is opened; design with cable terminated with quick disconnect; painting in any RAL colour. Certifications: CE, RoHS, ENEC, ENEC+, Zhaga D4i.

## APPLICATION

Thanks to the use of dedicated optics, it is possible to illuminate objects such as: motorways, motorways, national roads, voivodeships, districts, communes, municipalities, housing estates, area lighting. Optics are also available to illuminate: pedestrian crossings, pavements and cycle paths.

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## TECHNICAL PARAMETERS TABLE

|  |                 |   |   |
|--|-----------------|---|---|
| <b>Index:</b>                            | 924866          | <b>Material of the body:</b>                    | powder coated aluminium   |
| <b>EAN:</b>                              | 5905963924866   | <b>Colour of the body:</b>                      | grey  |
| <b>ETIM class:</b>                       | EC000062        | <b>Dimensions (H/W/T/S) [mm]:</b>               | 870/122/262   |
| <b>Category type:</b>                    | street lighting | <b>Mounting dimensions [mm]:</b>                | ø40-60  |
| <b>Version:</b>                          | L               | <b>Impact resistance:</b>                       | IK09  |
| <b>Light source:</b>                     | LED module      | <b>Ingress protection:</b>                      | IP66  |
| <b>Rated power of the luminaire [W]:</b> | 160             | <b>Mounting version:</b>                        | Top, on pole / Side, on boom  |
| <b>Supply voltage [V]:</b>               | 220 - 240       | <b>Tilt angle adjustment [°]:</b>               | -5 to +15 (peak); -15 to +5 (side)  |
| <b>Frequency [Hz]:</b>                   | 50 - 60         | <b>Lateral surface (SCx) [m2]:</b>              | 0.034   |
| <b>Luminous flux [lm]:</b>               | 23900           | <b>Working temperature [°C]:</b>                | from -40 to +50   |
| <b>Luminous efficacy [lm/W]:</b>         | 149             | <b>DIMM DALI:</b>                               | yes   |
| <b>Energy efficiency class:</b>          | C               | <b>Control:</b>                                 | Yes + 5-stage power reduction   |
| <b>Electrical protection class:</b>      | II              | <b>Protection type:</b>                         | NTC + ESD   |
| <b>Colour temperature [K]:</b>           | 4000            | <b>Net weight [kg]:</b>                         | 6.500   |
| <b>Color rendering index (Ra) &gt;:</b>  | 70              | <b>ULOR:</b>                                    | 0%  |
| <b>SDCM:</b>                             | 5               | <b>Photobiological safety:</b>                  | Risk Group 1 (no photobiological hazard under normal behavioral limitation) |
| <b>Surge protection [kV]:</b>            | 10              | <b>Technical Warranty:</b>                      | 5 with the possibility of extension to 10                                   |
| <b>Diffuser material:</b>                | tempered glass  | <b>ENEC Certificate:</b>                        | <a href="#">0356/ENEC/24/M1/A1</a><br><a href="#">0120/ENEC+/24/M1/A1</a>   |
| <b>Diffuser type:</b>                    | transparent     | <b>CE certificate:</b>                          | <a href="#">95/2023</a>   |
| <b>Optics material:</b>                  | PMMA            | <b>Zhaga-D4i:</b>                               | <a href="#">ZG407420042023</a>  |
| <b>Optics:</b>                           | RM3             | <b>Environmental Product Declaration (EPD):</b> | <a href="#">682/2024</a>  |
| <b>Exchangeable source:</b>              | yes             | <b>Manual:</b>                                  | <a href="#">Download PDF</a>  |

## LIGHT CURVES



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## ACCESSORIES AVAILABLE

| index   | Name                          |
|---------|-------------------------------|
| 314049  | wall holder (galvanized)      |
| 314056  | wall holder (grey)            |
| UL00184 | mounting grip 78 mm TIARA LED |



wall holder (galvanized) (314049)



wall holder (grey) (314056)



mounting grip 78 mm TIARA LED (UL00184)

Card creation date: 03 June 2025

The company reserves the right to make design changes or upgrades in the presented product. Product data sheet does not constitute an offer. \* Parameter tolerance is +/- 10%



This product is a subject to electric and electronic waste equipment regulations (WEEE).



Certificate CE - Nr: 95/2023