



# IRIS 0



## DESCRIPTION

The IRIS 0 is a premium solution for public and residential street lighting, ensuring top-quality with all necessary EU certifications. Featuring high-efficiency LEDs and 41 optic options, it provides precise illumination. With a robust aluminum housing, corrosion resistance class C4 (C5 additional) and a lifetime of up to 100,000 hours (L95 B10), IRIS 0 ensures long-lasting performance even in harsh environments. Its tool-free opening allows quick and cost-effective maintenance, while power options from 10W to 70W offer adaptability for diverse applications. Ideal for creating energy-efficient, eco-friendly, visually comfortable lighting.

## APPLICATIONS

IRIS 0 is ideal for a wide range of outdoor applications: streets, highway roads, parking lots, railway platforms, pedestrian areas, parks and bike paths, also for urban infrastructure or recreational spaces.

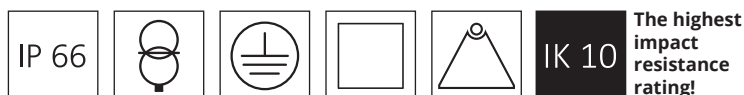
## BENEFITS

- **Best in Class:** Designed, developed and manufactured by ENIM, a trusted EU producer.
- **Certified Quality:** CE, CB, ENEC, ENEC+, RoHS, EPD certifications ensuring compliance with all EU road requirements.
- **Superior Efficiency:** Advanced technology with high-efficiency LEDs for maximum performance.
- **Versatile Power Options:** Ranges from 10W to 70W, tailored to fit any lighting project.
- **Adaptable Optics:** 41 optic types ensure precise lighting for diverse applications.
- **Unique Design:** Sleek, dirt-resistant design perfected over 15 years for practicality and aesthetics.
- **Engineered for Longevity:** Built to last 100,000 hours (L95 B10).
- **Corrosion Resistance:** Corrosion resistance class C4 (C5 additional), ensuring durability in harsh environments.
- **Easy Maintenance:** Tool-less access simplifies installation and upkeep.
- **Safety First:** Integrated safety knife-switch prevents electric shocks.
- **SMART savings:** dimming profiles DDF's for even more energy reduction.
- **Sustainability:** EPD certificate ensures low carbon emissions and eco-friendly materials.
- **Dark Sky Certified:** Reduces light pollution, preserving the beauty of the natural night sky.

\*Dark Sky applies to luminaires up to 3000 K.



## TECHNICAL INFORMATION:

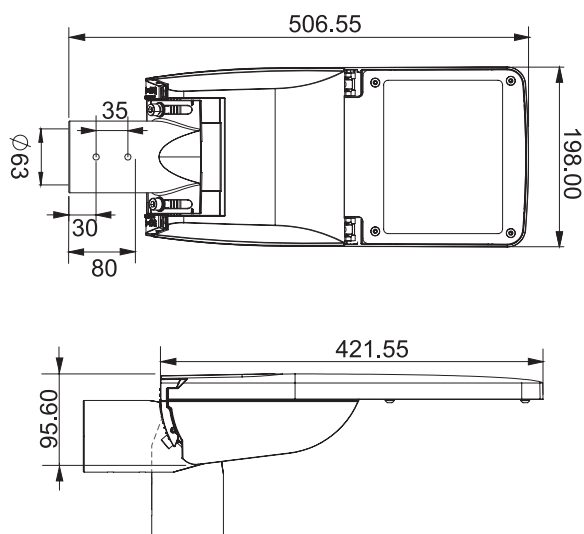


|                   |             |                           |                                                 |
|-------------------|-------------|---------------------------|-------------------------------------------------|
| <b>ELECTRICAL</b> | <b>V</b>    | Input voltage             | 220-240                                         |
|                   | <b>Hz</b>   | Rated voltage             | 50-60 Hz                                        |
|                   | <b>W</b>    | Luminaire wattage         | 10 to 70                                        |
|                   | <b>Cosφ</b> | Power factor              | ≥ 0.95                                          |
| <b>OPTICAL</b>    | <b>Lm</b>   | Luminous flux             | 1350-10780                                      |
|                   | <b>Lm/W</b> | Luminous efficacy         | Up to 170 Lm/W                                  |
|                   | <b>K</b>    | Color temperature         | 2700/3000/4000 and 5700 for pedestrian crossing |
|                   | <b>Tg</b>   | Performance temperature   | 25 °C                                           |
|                   | <b>C°</b>   | Ambient temperature range | -40 °C ≤ Ta ≤ +50 °C                            |
|                   | <b>CRI</b>  | Color rendering index     | ≥70                                             |

| Number of LED's          | 8         |           |           |           | 16        |           |           |           | 24        |           |           |            |
|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| <b>Power</b>             | 10W       | 20W       | 10W       | 20W       | 30W       | 40W       | 50W       | 30W       | 40W       | 50W       | 60W       | 70W        |
| <b>Luminous Flux, Lm</b> | 1350-1680 | 2400-3020 | 1270-1560 | 2760-3320 | 4080-4980 | 5200-6440 | 6400-7800 | 4140-5100 | 5400-6640 | 6650-8300 | 7740-9600 | 8820-10780 |
| <b>Efficacy, Lm/W</b>    | 135-168   | 120-151   | 127-156   | 138-166   | 136-166   | 130-161   | 128-156   | 138-170   | 135-166   | 133-166   | 129-160   | 126-154    |

|                                         |                                    |
|-----------------------------------------|------------------------------------|
| Chromatic tolerance ( original MacAdam) | Not higher than 5                  |
| Life expectancy L/B                     | L95 B10 by 100000 hrs (Ta = 25 °C) |

|                |                                   |                                                                                                                                           |
|----------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>HOUSING</b> | <b>Size</b>                       | 421,6 x 198 x 95,6 mm                                                                                                                     |
|                | <b>Weight</b>                     | max 3,6 kg                                                                                                                                |
|                | <b>Body material</b>              | Heat sink: cast aluminium, painted                                                                                                        |
|                | <b>Tool-less</b>                  | Lid opening and driver change                                                                                                             |
|                | <b>Protection against fogging</b> | The luminaire design incorporates a pressure-equalizing moisture/dust filter that prevents moisture condensation in the luminaire housing |
|                | <b>Installation</b>               | Adjustable bracket: angle - 20 + 25 , Ø 60-76 mm, Ø 42-60 mm                                                                              |



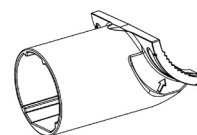
|               |                                           |                                                                                                   |
|---------------|-------------------------------------------|---------------------------------------------------------------------------------------------------|
| <b>OPTICS</b> | <b>Optical cover</b>                      | Glass, thermally hardened (4 mm)                                                                  |
|               | <b>Light source</b>                       | OSRAM/LUMILEDS                                                                                    |
|               | <b>Optics</b>                             | Asymmetric optics lens                                                                            |
|               | <b>Optics type</b>                        | Very carefully selected optics suppliers, the optics are transparent to ensure minimal light loss |
|               | <b>Maintenance</b>                        | Optical module sealed for life. No internal cleaning required                                     |
|               | <b>Protection against light pollution</b> | 0 candela light emission above 90°                                                                |

|               |                                                     |                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DRIVER</b> | <b>Input voltage</b>                                | Input 180-264 VAC, 100-305 VAC, 176-280 VDC (depending on the driver in use)                                                                                                                                                                                                                                                                                                               |
|               | <b>Intelligent temperature Guard (ITG)</b>          | The intelligent temperature guard protects the LED driver from thermal overheating by reducing the output power or switching off in case of operation above the thermal limits of the luminaire or ballast. Depending on the luminaire design, the ITG operates at about 5 to 10 °C above tc temperature. If temperature threshold values are exceeded, the LED output current is limited. |
|               | <b>Overvoltage with a variable surge protection</b> | N/L – 10kV, P/(N/L) - 10kV                                                                                                                                                                                                                                                                                                                                                                 |
|               | <b>Interfaces</b>                                   | one4all (DALI, DALI2, DT 6, DSI, switchDIM, corridorFUNCTION) - near field communication (NFC) - ready2mains (configuration and dimming via mains) - U6Me2 (configuration of chronoSTEP 2 via mains time dimming function), midnight dimming profiles                                                                                                                                      |

|                 |                                                                    |
|-----------------|--------------------------------------------------------------------|
| <b>OPTIONAL</b> | <b>Sockets</b> for various smart control sensors                   |
|                 | D4i ZHAGA TOP-BOTTOM / D4i ZHAGA BOTTOM / D4i ZHAGA TOP / NEMA TOP |

#### Accessories

| Code     | Name                         |
|----------|------------------------------|
| MET474-1 | IRIS 0 bracket Ø76mm RAL7035 |
| MET474-2 | IRIS 0 bracket Ø76mm RAL7015 |
| MET474-3 | IRIS 0 bracket Ø76mm RAL9004 |



|                |                             |                                                                                                                                                                                                                                                 |
|----------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>REMARKS</b> | CLO                         | The light output of an LED module reduces over the course of its lifetime. The Constant Light Output (eCLO) function compensates for this natural decline by constantly increasing the output current of the LED driver throughout its lifetime |
|                | Power factor ( Cosφ )       | ≥ 0.95                                                                                                                                                                                                                                          |
|                | Recommended mounting height | 4-12 m                                                                                                                                                                                                                                          |
|                |                             | Luminaires are ready to install                                                                                                                                                                                                                 |
|                |                             |                                                                                                                                                                                                                                                 |

#### LOGISTIC DETAILS:

| Full pallet size/cm<br>L*W*H | Number of luminaires per row | Maximum number of rows on the pallet | QTY per pallet/pcs      |
|------------------------------|------------------------------|--------------------------------------|-------------------------|
| 120 X 80 X 185               | 7                            | 12                                   | 84                      |
| Kg per pallet                |                              | Volume per pallet                    | LDM (loading meters), m |
| <b>Netto</b>                 | <b>Brutto</b>                |                                      |                         |
| 415,8                        | 437,2                        | 1.776 m³                             | 0,4                     |

