

## ARMONIA TS TRIO

### MAIN CHARACTERISTICS

|                                 |   |
|---------------------------------|---|
| <b>Applications</b>             | Street and urban lighting.  |
| <b>Optic</b>                    | TS: Symmetrical optic for centre road lighting.<br>Colour temperature: 4000K (3000K optional)   CRI ≥ 70<br>Photobiological safety class: EXEMPT GROUP<br>LED source efficiency: 168 lm/W @ 525mA, Tj=85°C, 4000K |
| <b>Insulation class</b>         | II, I   |
| <b>Protection degree</b>        | IP66   IK08 total   |
| <b>Tilt angle</b>               | Adjustable inclination and orientation  |
| <b>LED modules</b>              | Removable / Replaceable   |
| <b>Dimensions</b>               | Ø626x240mm - See the drawing  |
| <b>Weight</b>                   | 16 kg   |
| <b>Exposed surface</b>          | Side: 0.9m <sup>2</sup> - Top: 0.31m <sup>2</sup>   |
| <b>Mounting</b>                 | On cable Ø6÷Ø12mm   |
| <b>Gear tray</b>                | Removable   |
| <b>Operating temperature</b>    | -40°C / +50°C (525mA), -40°C / +35°C (700mA)  |
| <b>Storage temperature</b>      | -40°C / +80°C   |
| <b>Main reference standards</b> | EN 60598-1, EN 60598-2-3, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3  |



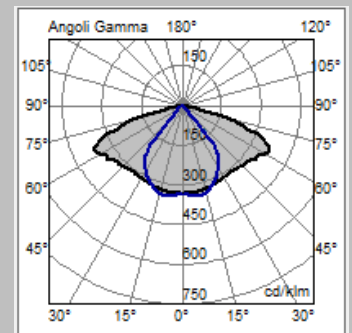
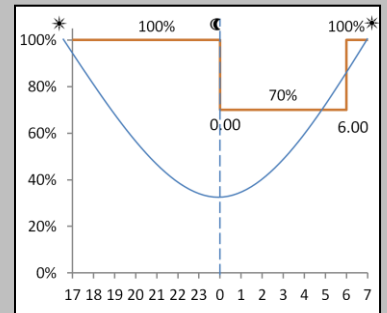
### ELECTRICAL CHARACTERISTICS

|   |   |
|---|---|
| <b>Rated voltage</b>                          | 220÷240V 50/60Hz  |
| <b>Power factor</b>                           | >0,9 (at full load)   |
| <b>On-load switch</b>                         | Included, with integrated cable clamp.  |
| <b>Mains connection</b>                       | Connector for cables max section 4mm <sup>2</sup>   |
| <b>Surge protection</b>                       | Up to 10kV   With SPD (optional) 10kV / 10kV CM/DM  |
| <b>SPD (optional)</b>                         | 10kV-10kA, type II, with LED signal and thermo fuse to disconnect load at the end of life.  |
| <b>Control system (options)</b>               | F: Fixed power not dimmable.<br>DA: Automatic dimming (virtual midnight) with default profile.<br>DAC: Custom DA profile.<br>FLC: Constant light flux.<br>DALI: Digital dimming interface DALI. |
| <b>Optical unit lifetime (Tq=25°C, 700mA)</b> | >100.000hr L90B10<br>>100.000hr L90, TM-21  |

### MATERIALS

|                    |   |
|--------------------|---|
| <b>Fixing</b>      | Stainless steel AISI 316L   |
| <b>Body</b>        | Spun aluminum powder painted.   |
| <b>Heatsink</b>    | Extruded aluminum.  |
| <b>Lower frame</b> | Die-cast aluminum UNI EN 1706 powder painted.   |
| <b>Optic</b>       | 99.85% aluminum with a surface finish in 99.95% with vacuum-sealed deposition. Aluminum grade class A+ (DIN EN 16268) |
| <b>Screen</b>      | Flat tempered glass, 4mm thickness high transparency.   |
| <b>Cable gland</b> | Plastic M20x1.5 - IP68  |
| <b>Gasket</b>      | EPDM  |
| <b>Colour</b>      | Graphite - Cod. 01  |

### DA Profile



TS Optic

All the published photometrical data has been obtained according to EN 13032-1





| LUMINAIRE               | OPTIC | RATED LUMINAIRE FLUX*<br>(Tq=25°C, 4000K, lm) | RATED LUMINAIRE POWER*<br>(Tq=25°C, Vin=230Vac, F/DA/DAC, W) | LUMINAIRE EFFICACY<br>(Tq=25°C, lm/W) | RATED LED FLUX*<br>(Tj=85°C, 4000K, lm) | RATED LED POWER*<br>(Tj=85°C, W) |
|-------------------------|-------|---|--|---------------------------------------|---|----------------------------------|
| ARMONIA TS 0F2H1 4.5-1M | TS    | 1840  | 16   | 115                                   | 2184                                    | 13                               |
| ARMONIA TS 0F2H1 4.5-2M |       | 3620  | 30.5   | 118                                   | 4368                                    | 26                               |
| ARMONIA TS 0F2H1 4.5-3M |       | 5420  | 44   | 123                                   | 6552                                    | 39                               |
| ARMONIA TS 0F2H1 4.5-4M |       | 7010  | 57   | 122                                   | 8736                                    | 52                               |
| ARMONIA TS 0F2H1 4.7-1M | TS    | 2370  | 21.5   | 110                                   | 2765                                    | 18                               |
| ARMONIA TS 0F2H1 4.7-2M |       | 4630  | 40   | 115                                   | 5530                                    | 36                               |
| ARMONIA TS 0F2H1 4.7-3M |       | 6890  | 58   | 118                                   | 8295                                    | 54                               |
| ARMONIA TS 0F2H1 4.7-4M |       | 8810  | 76   | 115                                   | 11060                                   | 72                               |

\*RATED LUMINAIRE FLUX / RATED LUMINAIRE POWER: Rated data obtained in laboratory.

\*RATED LED FLUX / RATED LED POWER: Rated data extrapolated from LED manufacturer datasheet.

Values indicated in this technical sheet are to be considered rated values. Flux tolerance: ±7%. Power tolerance: ±5%.

The characteristics of the product listed above are subjected to change without notice.



| LUMINAIRE               | OPTIC | RATED LUMINAIRE FLUX*<br>(Tq=25°C, 3000K, lm) | RATED LUMINAIRE POWER*<br>(Tq=25°C, Vin=230Vac, F/DA/DAC, W) | LUMINAIRE EFFICACY<br>(Tq=25°C, lm/W) | RATED LED FLUX*<br>(Tj=85°C, 3000K, lm) | RATED LED POWER*<br>(Tj=85°C, W) |
|-------------------------|-------|---|--|---------------------------------------|---|----------------------------------|
| ARMONIA TS 0F2H1 3.5-1M | TS    | 1720  | 16   | 107                                   | 1990                                    | 13                               |
| ARMONIA TS 0F2H1 3.5-2M |       | 3360  | 30.5   | 110                                   | 3980                                    | 26                               |
| ARMONIA TS 0F2H1 3.5-3M |       | 5040  | 44   | 114                                   | 5970                                    | 39                               |
| ARMONIA TS 0F2H1 3.5-4M |       | 6520  | 57   | 114                                   | 7960                                    | 52                               |
| ARMONIA TS 0F2H1 3.7-1M | TS    | 2210  | 21.5   | 102                                   | 2520                                    | 18                               |
| ARMONIA TS 0F2H1 3.7-2M |       | 4300  | 40   | 107                                   | 5040                                    | 36                               |
| ARMONIA TS 0F2H1 3.7-3M |       | 6410  | 58   | 110                                   | 7560                                    | 54                               |
| ARMONIA TS 0F2H1 3.7-4M |       | 8190  | 76   | 107                                   | 10080                                   | 72                               |

\*RATED LUMINAIRE FLUX / RATED LUMINAIRE POWER: Rated data obtained in laboratory.

\*RATED LED FLUX / RATED LED POWER: Rated data extrapolated from LED manufacturer datasheet.

Values indicated in this technical sheet are to be considered rated values. Flux tolerance: ±7%. Power tolerance: ±5%.

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