

## I-TRON ZERO

### MAIN CHARACTERISTICS

|                                 |   |
|---------------------------------|---|
| <b>Applications</b>             | Street lighting.  |
| <b>Optic</b>                    | STU-S: Asymmetrical optic for street, urban and cycle-path lighting (narrow emission).<br>STU-M: Asymmetrical optic for street, urban and cycle-path lighting (medium emission).<br>STU-W: Asymmetrical optic for wide urban and suburban road lighting.<br>S03: Asymmetrical optic for wide urban and suburban road lighting.<br>Colour temperature: 4000K (3000K optional)   CRI ≥ 70<br>LOR= 100%, DLOR= 100%, ULOR= 0%<br>Photobiological safety class: EXEMPT GROUP<br>LED source efficiency: 174 lm/W @ 400mA, Tj=85°C, 4000K |
| <b>Insulation class</b>         | II, I   |
| <b>Protection degree</b>        | IP66   IK09 total   |
| <b>LED Modules</b>              | Removable / Replaceable   |
| <b>Tilt Angle</b>               | Post-top: 0°, +5°, +10°, +15°, +20°   Bracket: +5°, 0°, -5°, -10°, -15°, -20°   |
| <b>Dimensions</b>               | See the drawing   |
| <b>Weight</b>                   | max. 4.5 kg   |
| <b>Exposed surface</b>          | Side: 0.03m <sup>2</sup> – Top: 0.11m <sup>2</sup>  |
| <b>Mounting</b>                 | Bracket or Post-top Ø60mm<br>Ø32 / Ø42 / Ø48 / Ø76mm (optional)   |
| <b>Gear tray</b>                | Removable.<br>Gear tray integrated on luminaire body, separated from optic unit.<br>Removable plate optional.   |
| <b>Operating temp.</b>          | -40°C / +50°C   |
| <b>Storage temperature</b>      | -40°C / +80°C   |
| <b>Main reference standards</b> | EN 60598-1, EN 60598-2-3, EN 62471,<br>EN 55015, EN 61547, EN 61000-3-2, EN-61000-3-3   |



### ELECTRICAL CHARACTERISTICS

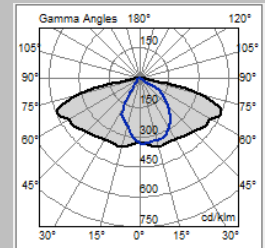
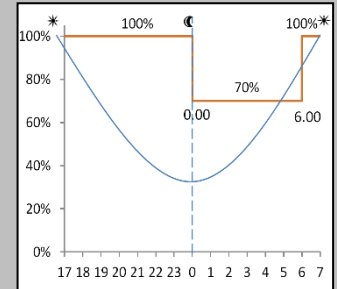
|   |  |
|---|--|
| <b>Rated voltage</b>                        | 220÷240V 50/60Hz   |
| <b>Power factor</b>                         | >0,95 (at full load - F, DA, DAC)  |
| <b>Mains connection</b>                     | For cables max section 4mm <sup>2</sup>  |
| <b>Surge protection</b>                     | 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>WL: Wireless single point communication system.<br>DALI: Digital dimming interface DALI.<br>NEMA: Socket 7 pin (ANSI C136.41).<br>ZHAGA: Socket 4 pin (ZHAGA Book 18). |
| <b>LED source lifetime (Tq=25°C, 500mA)</b> | >100.000hr L90B10<br>>100.000hr L90, TM21  |

### MATERIALS

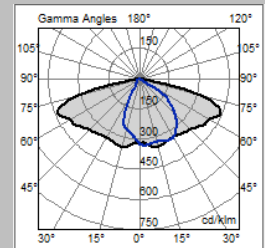
|                     |  |
|---------------------|--|
| <b>Fixing</b>       |  |
| <b>Lower frame</b>  | Die-cast aluminum UNI EN1706 powder painted.   |
| <b>Upper canopy</b> |  |
| <b>Closure</b>      | Stainless steel captive screws   |
| <b>Optic</b>        | 99.85% aluminum with a surface finish in 99.95% with vacuum-sealed deposition.<br>(Aluminum grade class A+ DIN EN 16268) |
| <b>Screen</b>       | Flat tempered glass, 4mm thickness high transparency.  |
| <b>Cable gland</b>  | Plastic cable gland M20x1.5 - IP68   |
| <b>Gasket</b>       | Polyurethane   |
| <b>Colour</b>       | RAL 7016 satinized matt - Cod. 30  |

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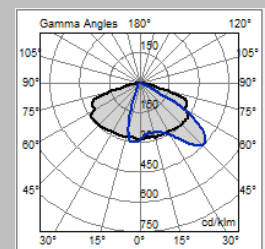
### DA Profil



STU-S Optic



STU-M Optic



S03 Optic

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





| LUMINAIRE                   | OPTIC | LED CURRENT (mA) | RATED LUMINAIRE FLUX* (Tq=25°C, 4000K, lm) | RATED LUMINAIRE POWER* (Tq=25°C, Vin=230Vac, F/DA/DAC, W) | LUMINAIRE EFFICACY (Tq=25°C, lm/W) | RATED LED FLUX* (Tj=85°C, 4000K, lm) | RATED LED POWER* (Tj=85°C, W) |
|-----------------------------|-------|------------------|--|---|------------------------------------|--------------------------------------|-------------------------------|
| I-TRON Zero 2Z8 4.40-1M VEX | STU-M | 400              | 2910                                       | 21.5  | 135                                | 3184                                 | 18                            |
| I-TRON Zero 2Z8 4.40-2M VEX | STU-S |                  | 5850                                       | 40.5  | 144                                | 6368                                 | 36                            |
| I-TRON Zero 2Z8 4.40-3M VEX | STU-W |                  | 8700                                       | 59.5  | 146                                | 9552                                 | 54                            |
| I-TRON Zero 2Z8 4.50-1M VEX | STU-M | 500              | 3510                                       | 27  | 130                                | 3899                                 | 23                            |
| I-TRON Zero 2Z8 4.50-2M VEX | STU-S |                  | 7130                                       | 51.5  | 138                                | 7798                                 | 46                            |
| I-TRON Zero 2Z8 4.50-3M VEX | STU-W |                  | 10510                                      | 75.5  | 139                                | 11697                                | 69                            |
| I-TRON Zero 2Z8 4.40-1M VEX | S03   | 400              | 2860                                       | 21.5  | 133                                | 3184                                 | 18                            |
| I-TRON Zero 2Z8 4.40-2M VEX |       |                  | 5730                                       | 40.5  | 141                                | 6368                                 | 36                            |
| I-TRON Zero 2Z8 4.40-3M VEX |       |                  | 8530                                       | 59.5  | 143                                | 9552                                 | 54                            |
| I-TRON Zero 2Z8 4.50-1M VEX | S03   | 500              | 3450                                       | 27  | 127                                | 3899                                 | 23                            |
| I-TRON Zero 2Z8 4.50-2M VEX |       |                  | 6990                                       | 51.5  | 135                                | 7798                                 | 46                            |
| I-TRON Zero 2Z8 4.50-3M VEX |       |                  | 10300                                      | 75.5  | 136                                | 11697                                | 69                            |

\*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%.

Power tolerance with ZHAGA version or power supply D4i/SR: ±10%.

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



| LUMINAIRE                   | OPTIC | LED CURRENT (mA) | RATED LUMINAIRE FLUX* (Tq=25°C, 3000K, lm) | RATED LUMINAIRE POWER* (Tq=25°C, Vin=230Vac, F/DA/DAC, W) | LUMINAIRE EFFICACY (Tq=25°C, lm/W) | RATED LED FLUX* (Tj=85°C, 3000K, lm) | RATED LED POWER* (Tj=85°C, W) |
|-----------------------------|-------|------------------|--|---|------------------------------------|--------------------------------------|-------------------------------|
| I-TRON Zero 2Z8 3.40-1M VEX | STU-M | 400              | 2850                                       | 21.5  | 132                                | 3089                                 | 18                            |
| I-TRON Zero 2Z8 3.40-2M VEX | STU-S |                  | 5730                                       | 40.5  | 141                                | 6178                                 | 36                            |
| I-TRON Zero 2Z8 3.40-3M VEX | STU-W |                  | 8530                                       | 59.5  | 143                                | 9267                                 | 54                            |
| I-TRON Zero 2Z8 3.50-1M VEX | STU-M | 500              | 3440                                       | 27  | 127                                | 3782                                 | 23                            |
| I-TRON Zero 2Z8 3.50-2M VEX | STU-S |                  | 6990                                       | 51.5  | 135                                | 7564                                 | 46                            |
| I-TRON Zero 2Z8 3.50-3M VEX | STU-W |                  | 10300                                      | 75.5  | 136                                | 11346                                | 69                            |
| I-TRON Zero 2Z8 3.40-1M VEX | S03   | 400              | 2790                                       | 21.5  | 129                                | 3089                                 | 18                            |
| I-TRON Zero 2Z8 3.40-2M VEX |       |                  | 5620                                       | 40.5  | 138                                | 6178                                 | 36                            |
| I-TRON Zero 2Z8 3.40-3M VEX |       |                  | 8360                                       | 59.5  | 140                                | 9267                                 | 54                            |
| I-TRON Zero 2Z8 3.50-1M VEX | S03   | 500              | 3370                                       | 27  | 124                                | 3782                                 | 23                            |
| I-TRON Zero 2Z8 3.50-2M VEX |       |                  | 6850                                       | 51.5  | 133                                | 7564                                 | 46                            |
| I-TRON Zero 2Z8 3.50-3M VEX |       |                  | 10100                                      | 75.5  | 133                                | 11346                                | 69                            |

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

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

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