

I-TRON 1

I-TRON 1

MAIN CHARACTERISTICS

| | |
|---------------------------------|---|
| Applications | Street lighting. |
| Optic | STU-S: Asymmetrical optic for street, urban and cycle-path lighting (narrow emission). STU-M: Asymmetrical optic for street, urban and cycle-path lighting (medium emission). STU-W: Asymmetrical optic for wide urban and suburban road lighting. S03: Asymmetrical optic for wide urban and suburban road lighting. Colour temperature: 4000K (3000K optional) CRI ≥ 70 LOR= 100%, DLOR= 100%, ULOR= 0% Photobiological safety class: EXEMPT GROUP LED source efficiency: 174 lm/W @ 400mA, Tj=85°C, 4000K |
| Insulation class | II, I |
| Protection degree | IP66 IK09 total |
| LED Modules | Removable / Replaceable |
| Tilt Angle | Post-top: 0°, +5°, +10°, +15°, +20° Bracket: +5°, 0°, -5°, -10°, -15°, -20° |
| Dimensions | See the drawing |
| Weight | max. 7 kg |
| Exposed surface | Side: 0.04m ² – Top: 0.16m ² |
| Mounting | Bracket or Post-top Ø60mm Ø32 / Ø42 / Ø48 / Ø76mm (optional) |
| Gear tray | Removable. Gear tray integrated on luminaire body, separated from optic unit. Removable plate optional. |
| Operating temp. | -40°C / +50°C |
| Storage temperature | -40°C / +80°C |
| Main reference standards | EN 60598-1, EN 60598-2-3, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN-61000-3-3 |



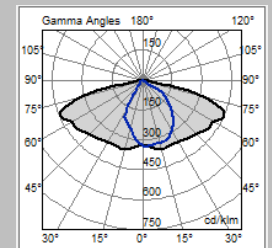
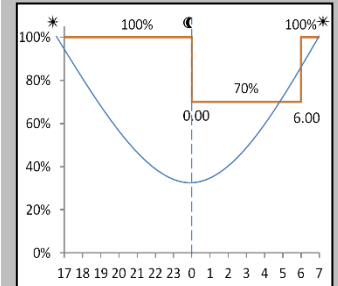
ELECTRICAL CHARACTERISTICS

| | |
|---|--|
| Rated voltage | 220÷240V 50/60Hz |
| Power factor | >0,95 (at full load - F, DA, DAC) |
| Mains connection | For cables max section 4mm ² |
| Surge protection | Up to 10kV With SPD (optional) 10kV / 10kV CM/DM |
| SPD (optional) | 10kV-10kA, type II, with LED signal and thermo fuse to disconnect load at the end of life. |
| Control system (options) | F: Fixed power not dimmable. DA: Automatic dimming (virtual midnight) with default profile. DAC: Custom DA profile. FLC: Constant light flux. WL: Wireless single point communication system. DALI: Digital dimming interface DALI. NEMA: Socket 7 pin (ANSI C136.41). ZHAGA: Socket 4 pin (ZHAGA Book 18). |
| LED source lifetime (Tq=25°C, 500mA) | >100.000hr L90B10 >100.000hr L90, TM21 |

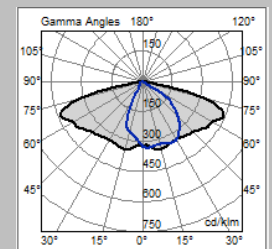
MATERIALS

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

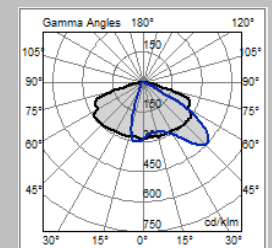
DA Profil



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 1 2Z8 4.40-1M VEX | STU-M STU-S STU-W | 400 | 2950 | 21.5 | 137 | 3184 | 18 |
| I-TRON 1 2Z8 4.40-2M VEX | | | 5910 | 40.5 | 145 | 6368 | 36 |
| I-TRON 1 2Z8 4.40-3M VEX | | | 8790 | 59.5 | 147 | 9552 | 54 |
| I-TRON 1 2Z8 4.40-4M VEX | | | 11580 | 79.5 | 145 | 12736 | 72 |
| I-TRON 1 2Z8 4.40-5M VEX | | | 14260 | 98 | 145 | 15920 | 90 |
| I-TRON 1 2Z8 4.40-6M VEX | | | 17330 | 118 | 146 | 19104 | 108 |
| I-TRON 1 2Z8 4.50-1M VEX | STU-M STU-S STU-W | 500 | 3560 | 27 | 131 | 3899 | 23 |
| I-TRON 1 2Z8 4.50-2M VEX | | | 7200 | 51.5 | 139 | 7798 | 46 |
| I-TRON 1 2Z8 4.50-3M VEX | | | 10620 | 75.5 | 140 | 11697 | 69 |
| I-TRON 1 2Z8 4.50-4M VEX | | | 13850 | 100 | 138 | 15596 | 92 |
| I-TRON 1 2Z8 4.50-5M VEX | | | 16810 | 123 | 136 | 19495 | 115 |
| I-TRON 1 2Z8 4.50-6M VEX** | | | 20700 | 149 | 138 | 23394 | 138 |
| I-TRON 1 2Z8 4.40-1M VEX | S03 | 400 | 2880 | 21.5 | 133 | 3184 | 18 |
| I-TRON 1 2Z8 4.40-2M VEX | | | 5790 | 40.5 | 142 | 6368 | 36 |
| I-TRON 1 2Z8 4.40-3M VEX | | | 8610 | 59.5 | 144 | 9552 | 54 |
| I-TRON 1 2Z8 4.40-4M VEX | | | 11350 | 79.5 | 142 | 12736 | 72 |
| I-TRON 1 2Z8 4.40-5M VEX | | | 13970 | 98 | 142 | 15920 | 90 |
| I-TRON 1 2Z8 4.40-6M VEX | | | 16990 | 118 | 143 | 19104 | 108 |
| I-TRON 1 2Z8 4.50-1M VEX | S03 | 500 | 3470 | 27 | 128 | 3899 | 23 |
| I-TRON 1 2Z8 4.50-2M VEX | | | 7060 | 51.5 | 137 | 7798 | 46 |
| I-TRON 1 2Z8 4.50-3M VEX | | | 10410 | 75.5 | 137 | 11697 | 69 |
| I-TRON 1 2Z8 4.50-4M VEX | | | 13570 | 100 | 135 | 15596 | 92 |
| I-TRON 1 2Z8 4.50-5M VEX | | | 16470 | 123 | 133 | 19495 | 115 |
| I-TRON 1 2Z8 4.50-6M VEX** | | | 20280 | 149 | 136 | 23394 | 138 |

*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: $\pm 7\%$. Power tolerance: $\pm 5\%$. Power tolerance with ZHAGA version or power supply D4i/SR: $\pm 10\%$.

**Operating temperature: -40°C / $+40^{\circ}\text{C}$

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 1 2Z8 3.40-1M VEX | STU-M STU-S STU-W | 400 | 2880 | 21.5 | 133 | 3089 | 18 |
| I-TRON 1 2Z8 3.40-2M VEX | | | 5790 | 40.5 | 142 | 6178 | 36 |
| I-TRON 1 2Z8 3.40-3M VEX | | | 8610 | 59.5 | 144 | 9267 | 54 |
| I-TRON 1 2Z8 3.40-4M VEX | | | 11350 | 79.5 | 142 | 12356 | 72 |
| I-TRON 1 2Z8 3.40-5M VEX | | | 13970 | 98 | 142 | 15445 | 90 |
| I-TRON 1 2Z8 3.40-6M VEX | | | 16990 | 118 | 143 | 18534 | 108 |
| I-TRON 1 2Z8 3.50-1M VEX | STU-M STU-S STU-W | 500 | 3470 | 27 | 128 | 3782 | 23 |
| I-TRON 1 2Z8 3.50-2M VEX | | | 7060 | 51.5 | 137 | 7564 | 46 |
| I-TRON 1 2Z8 3.50-3M VEX | | | 10410 | 75.5 | 137 | 11346 | 69 |
| I-TRON 1 2Z8 3.50-4M VEX | | | 13570 | 100 | 135 | 15128 | 92 |
| I-TRON 1 2Z8 3.50-5M VEX | | | 16470 | 123 | 133 | 18910 | 115 |
| I-TRON 1 2Z8 3.50-6M VEX** | | | 20280 | 149 | 136 | 22692 | 138 |
| I-TRON 1 2Z8 3.40-1M VEX | S03 | 400 | 2820 | 21.5 | 131 | 3089 | 18 |
| I-TRON 1 2Z8 3.40-2M VEX | | | 5670 | 40.5 | 140 | 6178 | 36 |
| I-TRON 1 2Z8 3.40-3M VEX | | | 8440 | 59.5 | 141 | 9267 | 54 |
| I-TRON 1 2Z8 3.40-4M VEX | | | 11120 | 79.5 | 139 | 12356 | 72 |
| I-TRON 1 2Z8 3.40-5M VEX | | | 13690 | 98 | 139 | 15445 | 90 |
| I-TRON 1 2Z8 3.40-6M VEX | | | 16650 | 118 | 141 | 18534 | 108 |
| I-TRON 1 2Z8 3.50-1M VEX | S03 | 500 | 3400 | 27 | 125 | 3782 | 23 |
| I-TRON 1 2Z8 3.50-2M VEX | | | 6920 | 51.5 | 134 | 7564 | 46 |
| I-TRON 1 2Z8 3.50-3M VEX | | | 10200 | 75.5 | 135 | 11346 | 69 |
| I-TRON 1 2Z8 3.50-4M VEX | | | 13300 | 100 | 133 | 15128 | 92 |
| I-TRON 1 2Z8 3.50-5M VEX | | | 16140 | 123 | 131 | 18910 | 115 |
| I-TRON 1 2Z8 3.50-6M VEX** | | | 19880 | 149 | 133 | 22692 | 138 |

*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: $\pm 7\%$. Power tolerance: $\pm 5\%$. Power tolerance with ZHAGA version or power supply D4i/SR: $\pm 10\%$.

**Operating temperature: -40°C / $+40^{\circ}\text{C}$

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