

I-TRON ZERO

MAIN CHARACTERISTICS

Applications	Street lighting.
Optic	<p>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. STA: Asymmetrical optic for long interdistance and wide roads. 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</p>
Insulation class	II, I
Protection degree	IP66 IK09 total
Dimensions	See the drawing
Weight	max. 4.5 kg
Exposed surface	Side: 0.03m ² – Top: 0.11m ²
Mounting	Bracket or Post-top Ø60mm Ø32 / Ø42 / Ø48 / Ø76mm (optional)
Tilt Angle	Post-top: 0°, +5°, +10°, +15°, +20° Bracket: +5°, 0°, -5°, -10°, -15°, -20°
LED Modules	Removable / Replaceable
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



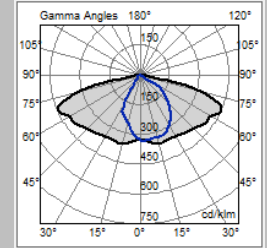
ELECTRICAL CHARACTERISTICS

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 2+3, with LED signal and thermo fuse to disconnect load at the end of life.
Control system (options)	<p>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).</p>
Optical unit lifetime (Tq=25°C, 500mA)	>100.000hr L90B10 >100.000hr L90, TM21

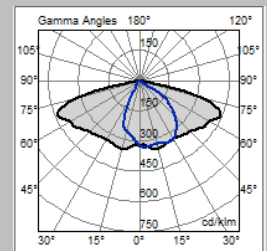
MATERIALS

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, 4mm thickness high transparency.
Cable gland	Plastic cable gland M20x1.5 - IP68
Gasket	Polyurethane
Colour	RAL 7016 satinized matt - Cod. 30

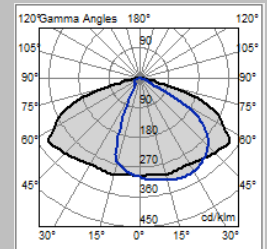
I-TRON ZERO



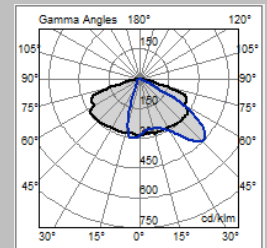
STU-S Optic



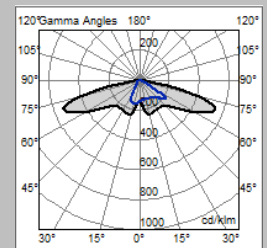
STU-M Optic



STU-W Optic



S03 Optic



STA Optic

All the published photometrical data has been obtained according to applicable international standards



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	3175	18
I-TRON Zero 2Z8 4.40-2M VEX	STU-S		5850	40.5	144	6351	36
I-TRON Zero 2Z8 4.40-3M VEX	STU-W		8700	59.5	146	9526	54
I-TRON Zero 2Z8 4.50-1M VEX	STU-M	500	3510	27	130	3896	23
I-TRON Zero 2Z8 4.50-2M VEX	STU-S		7130	51.5	138	7792	46
I-TRON Zero 2Z8 4.50-3M VEX	STU-W		10510	75.5	139	11688	68
I-TRON Zero 2Z8 4.40-1M VEX	S03	400	2860	21.5	133	3175	18
I-TRON Zero 2Z8 4.40-2M VEX			5730	40.5	141	6351	36
I-TRON Zero 2Z8 4.40-3M VEX			8530	59.5	143	9526	54
I-TRON Zero 2Z8 4.50-1M VEX	S03	500	3450	27	127	3896	23
I-TRON Zero 2Z8 4.50-2M VEX			6990	51.5	135	7792	46
I-TRON Zero 2Z8 4.50-3M VEX			10300	75.5	136	11688	68
I-TRON Zero 2Z6 4.40-1M VEX	STA	400	2120	17	124	2382	13
I-TRON Zero 2Z6 4.40-2M VEX			4230	31.5	134	4763	27
I-TRON Zero 2Z6 4.40-3M VEX			6330	46	137	7145	40
I-TRON Zero 2Z6 4.50-1M VEX	STA	500	2590	21.5	120	2922	17
I-TRON Zero 2Z6 4.50-2M VEX			5150	40	128	5844	34
I-TRON Zero 2Z6 4.50-3M VEX			7710	58.5	131	8766	51

*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: $\pm 10\%$.

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	3112	18
I-TRON Zero 2Z8 3.40-2M VEX	STU-S		5730	40.5	141	6224	36
I-TRON Zero 2Z8 3.40-3M VEX	STU-W		8530	59.5	143	9336	54
I-TRON Zero 2Z8 3.50-1M VEX	STU-M	500	3440	27	127	3818	23
I-TRON Zero 2Z8 3.50-2M VEX	STU-S		6990	51.5	135	7636	46
I-TRON Zero 2Z8 3.50-3M VEX	STU-W		10300	75.5	136	11455	68
I-TRON Zero 2Z8 3.40-1M VEX	S03	400	2790	21.5	129	3112	18
I-TRON Zero 2Z8 3.40-2M VEX			5620	40.5	138	6224	36
I-TRON Zero 2Z8 3.40-3M VEX			8360	59.5	140	9336	54
I-TRON Zero 2Z8 3.50-1M VEX	S03	500	3370	27	124	3818	23
I-TRON Zero 2Z8 3.50-2M VEX			6850	51.5	133	7636	46
I-TRON Zero 2Z8 3.50-3M VEX			10100	75.5	133	11455	68
I-TRON Zero 2Z6 3.40-1M VEX	STA	400	2080	17	122	2334	13
I-TRON Zero 2Z6 3.40-2M VEX			4140	31.5	131	4668	27
I-TRON Zero 2Z6 3.40-3M VEX			6210	46	135	7002	40
I-TRON Zero 2Z6 3.50-1M VEX	STA	500	2540	21.5	118	2864	17
I-TRON Zero 2Z6 3.50-2M VEX			5040	40	126	5727	34
I-TRON Zero 2Z6 3.50-3M VEX			7550	58.5	129	8591	51

*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.