

I-TRON 1

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. 7 kg
Exposed surface	Side: 0.04m ² – Top: 0.16m 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



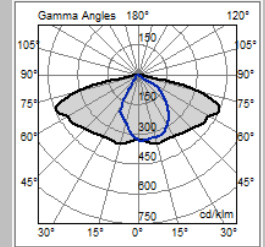
ELECTRICAL CHARACTERISTICS

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

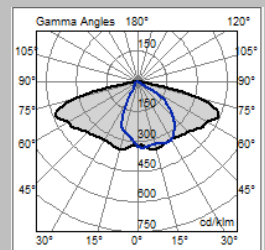
MATERIALS

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

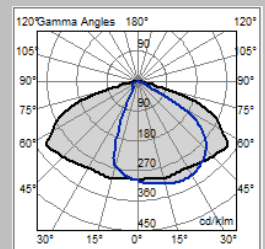
I-TRON



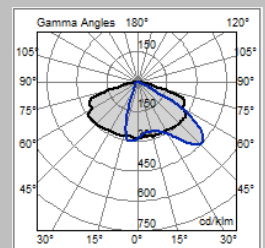
STU-S Optic



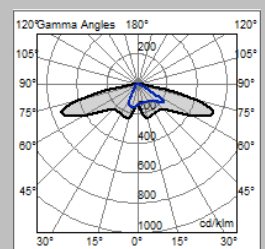
STU-M Optic



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 1 2Z8 4.40-1M VEX	STU-M STU-S STU-W	400	2950	21.5	137	3175	18
I-TRON 1 2Z8 4.40-2M VEX			5910	40.5	145	6351	36
I-TRON 1 2Z8 4.40-3M VEX			8790	59.5	147	9526	54
I-TRON 1 2Z8 4.40-4M VEX			11580	79.5	145	12701	72
I-TRON 1 2Z8 4.40-5M VEX			14260	98	145	15877	90
I-TRON 1 2Z8 4.40-6M VEX			17330	118	146	19052	108
I-TRON 1 2Z8 4.50-1M VEX	STU-M STU-S STU-W	500	3560	27	131	3896	23
I-TRON 1 2Z8 4.50-2M VEX			7200	51.5	139	7792	46
I-TRON 1 2Z8 4.50-3M VEX			10620	75.5	140	11688	68
I-TRON 1 2Z8 4.50-4M VEX			13850	100	138	15585	91
I-TRON 1 2Z8 4.50-5M VEX			16810	123	136	19481	114
I-TRON 1 2Z8 4.50-6M VEX**			20700	149	138	23377	137
I-TRON 1 2Z8 4.40-1M VEX	S03	400	2880	21.5	133	3175	18
I-TRON 1 2Z8 4.40-2M VEX			5790	40.5	142	6351	36
I-TRON 1 2Z8 4.40-3M VEX			8610	59.5	144	9526	54
I-TRON 1 2Z8 4.40-4M VEX			11350	79.5	142	12701	72
I-TRON 1 2Z8 4.40-5M VEX			13970	98	142	15877	90
I-TRON 1 2Z8 4.40-6M VEX			16990	118	143	19052	108
I-TRON 1 2Z8 4.50-1M VEX	S03	500	3470	27	128	3896	23
I-TRON 1 2Z8 4.50-2M VEX			7060	51.5	137	7792	46
I-TRON 1 2Z8 4.50-3M VEX			10410	75.5	137	11688	68
I-TRON 1 2Z8 4.50-4M VEX			13570	100	135	15585	91
I-TRON 1 2Z8 4.50-5M VEX			16470	123	133	19481	114
I-TRON 1 2Z8 4.50-6M VEX**			20280	149	136	23377	137



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 2Z6 4.40-1M VEX	STA	400	2140	17	125	2382	13
I-TRON 1 2Z6 4.40-2M VEX			4230	31.5	134	4763	27
I-TRON 1 2Z6 4.40-3M VEX			6310	46	137	7145	40
I-TRON 1 2Z6 4.40-4M VEX			8400	60	140	9526	54
I-TRON 1 2Z6 4.40-5M VEX			10420	75.5	138	11908	67
I-TRON 1 2Z6 4.40-6M VEX			12450	91	136	14289	81
I-TRON 1 2Z6 4.50-1M VEX	STA	500	2600	21.5	120	2922	17
I-TRON 1 2Z6 4.50-2M VEX			5110	40	127	5844	34
I-TRON 1 2Z6 4.50-3M VEX			7610	58.5	130	8766	51
I-TRON 1 2Z6 4.50-4M VEX			10140	76.5	132	11688	68
I-TRON 1 2Z6 4.50-5M VEX			12560	95.5	131	14610	85
I-TRON 1 2Z6 4.50-6M VEX			14990	115	130	17533	102

*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	3112	18
I-TRON 1 2Z8 3.40-2M VEX			5790	40.5	142	6224	36
I-TRON 1 2Z8 3.40-3M VEX			8610	59.5	144	9336	54
I-TRON 1 2Z8 3.40-4M VEX			11350	79.5	142	12447	72
I-TRON 1 2Z8 3.40-5M VEX			13970	98	142	15559	90
I-TRON 1 2Z8 3.40-6M VEX			16990	118	143	18671	108
I-TRON 1 2Z8 3.50-1M VEX	STU-M STU-S STU-W	500	3470	27	128	3818	23
I-TRON 1 2Z8 3.50-2M VEX			7060	51.5	137	7636	46
I-TRON 1 2Z8 3.50-3M VEX			10410	75.5	137	11455	68
I-TRON 1 2Z8 3.50-4M VEX			13570	100	135	15273	91
I-TRON 1 2Z8 3.50-5M VEX			16470	123	133	19091	114
I-TRON 1 2Z8 3.50-6M VEX**			20280	149	136	22909	137
I-TRON 1 2Z8 3.40-1M VEX	S03	400	2820	21.5	131	3112	18
I-TRON 1 2Z8 3.40-2M VEX			5670	40.5	140	6224	36
I-TRON 1 2Z8 3.40-3M VEX			8440	59.5	141	9336	54
I-TRON 1 2Z8 3.40-4M VEX			11120	79.5	139	12447	72
I-TRON 1 2Z8 3.40-5M VEX			13690	98	139	15559	90
I-TRON 1 2Z8 3.40-6M VEX			16650	118	141	18671	108
I-TRON 1 2Z8 3.50-1M VEX	S03	500	3400	27	125	3818	23
I-TRON 1 2Z8 3.50-2M VEX			6920	51.5	134	7636	46
I-TRON 1 2Z8 3.50-3M VEX			10200	75.5	135	11455	68
I-TRON 1 2Z8 3.50-4M VEX			13300	100	133	15273	91
I-TRON 1 2Z8 3.50-5M VEX			16140	123	131	19091	114
I-TRON 1 2Z8 3.50-6M VEX**			19880	149	133	22909	137



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I-TRON 1 2Z6 3.40-1M VEX	STA	400	2100	17	123	2334	13
I-TRON 1 2Z6 3.40-2M VEX			4140	31.5	131	4668	27
I-TRON 1 2Z6 3.40-3M VEX			6180	46	134	7002	40
I-TRON 1 2Z6 3.40-4M VEX			8230	60	137	9336	54
I-TRON 1 2Z6 3.40-5M VEX			10210	75.5	135	11669	67
I-TRON 1 2Z6 3.40-6M VEX			12200	91	134	14003	81
I-TRON 1 2Z6 3.50-1M VEX	STA	500	2550	21.5	118	2864	17
I-TRON 1 2Z6 3.50-2M VEX			5010	40	125	5727	34
I-TRON 1 2Z6 3.50-3M VEX			7460	58.5	127	8591	51
I-TRON 1 2Z6 3.50-4M VEX			9930	76.5	129	11455	68
I-TRON 1 2Z6 3.50-5M VEX			12310	95.5	128	14318	85
I-TRON 1 2Z6 3.50-6M VEX			14690	115	127	17182	102

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