



I-TRON 1

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MAIN CHARACTERISTICS

Applications	Street lighting.
Optic	<p>STE-M/S: Asymmetrical optic for suburban street lighting. STU-M/S: Asymmetrical optic for street, urban and cycle-path lighting. STW: Asymmetrical optic for wide urban and suburban road lighting, specific for wet asphalts. SV: Asymmetrical optic for very narrow urban streets or highway entrance/exit turns. S05/S07: Asymmetrical optic for street, urban and green areas lighting. STA: Asymmetrical optic for wide urban road and cycle-path lighting. Colour temperature: 4000K, 3000K, 2700K, 2200K (others in option) CRI ≥ 70 LOR= 100%, DLOR= 100%, ULOR= 0% Photobiological safety class: EXEMPT GROUP LED source efficiency: 185 lm/W @ 140mA, Tj=85°C, 4000K</p>
Insulation class	II, I
Protection degree	IP66/IP67 IK09 total
Dimensions	See the drawing
Weight	max 8 kg
Exposed surface	Side: 0.04m ² – Top: 0.16 m ² SCx 0.051 m ²
Mounting	Bracket / Post-top: Ø33mm ÷ Ø60mm Ø60mm ÷ Ø76mm(optional)
Tilt Angle	Post-top: -10°/+25° (step di 5°) Bracket: -25°/+10° (step di 5°)
LED Modules	Removable / Replaceable.
Gear tray	Removable. Gear tray integrated on luminaire body, separated from optic unit. Removable plate optional.
Operating temp.	-40°C / +55°C
Storage temp	-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 (Standard tolerance +/-10%, other voltages and tolerances upon request)
Power factor	>0,95 (at full load - F, DA, DAC)
Mains connection	terminal block for cables max section 4mm ²
Surge protection	Up to 12kV With SPD: CL.II: 10kV / 10kV CM/DM CL.I: 12kV / 10kV CM/DM Without SPD: CL.II: 10kV / 6kV CM/DM CL.I: 10kV / 6kV CM/DM
SPD (optional)	12kV-10kA, type 2+3, 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. DALI: Digital dimming interface DALI. NEMA: Socket 7 pin (ANSI C136.41). ZHAGA: Socket 4 pin (ZHAGA Book 18).
Optical unit lifetime (Tq=25°C)	>100.000hr L90B10 >100.000hr L90, TM-21

MATERIALS

Fixing	Die-cast aluminum UNI EN1706 powder painted.
Lower frame	
Upper canopy	
Closure hook	Extruded aluminium with stainless steel spring.
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 M20x1.5 - IP68
Gasket	Polyurethane
Colour	Graphite - Cod. 01



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 5P5 7040.060-5M	STE-M STU-M STW SV	60	8960	53.4	167.7	9234	47
I-TRON 1 5P5 7040.060-6M			10750	63.9	168.2	11081	56.4
I-TRON 1 5P5 7040.100-5M		100	14480	88.6	163.4	15115	79.8
I-TRON 1 5P5 7040.100-6M			17360	106	163.7	18138	95.7
I-TRON 1 5P5 7040.140-5M		140	19620	125	156.9	20748	113
I-TRON 1 5P5 7040.140-6M			23460	150	156.4	24897	136
I-TRON 1 5P5 7040.160-5M		160	22060	144	153.1	23471	130
I-TRON 1 5P5 7040.160-6M			26340	173	152.2	28165	157
I-TRON 1 5P5 7040.060-5M	S05 S07 STA STE-S STU-S	60	8750	53.4	163.8	9234	47
I-TRON 1 5P5 7040.060-6M			10500	63.9	164.3	11081	56.4
I-TRON 1 5P5 7040.100-5M		100	14150	88.6	159.7	15115	79.8
I-TRON 1 5P5 7040.100-6M			16960	106	160	18138	95.7
I-TRON 1 5P5 7040.140-5M		140	19190	125	153.5	20748	113
I-TRON 1 5P5 7040.140-6M			22940	150	152.9	24897	136
I-TRON 1 5P5 7040.160-5M		160	21580	144	149.8	23471	130
I-TRON 1 5P5 7040.160-6M			25760	173	148.9	28165	157

*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: $\pm 7\%$.

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

Meets Dark Sky requirements when equipped with LEDs with a colour temperature of 3000K or less.

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 5P5 7030.060-5M	STE-M STU-M STW SV	60	8420	53.4	157.6	8680	47
I-TRON 1 5P5 7030.060-6M			10100	63.9	158	10416	56.4
I-TRON 1 5P5 7030.100-5M		100	13610	88.6	153.6	14208	79.8
I-TRON 1 5P5 7030.100-6M			16320	106	153.9	17050	95.7
I-TRON 1 5P5 7030.140-5M		140	18440	125	147.5	19503	113
I-TRON 1 5P5 7030.140-6M			22050	150	147	23404	136
I-TRON 1 5P5 7030.160-5M		160	20740	144	144	22063	130
I-TRON 1 5P5 7030.160-6M			24760	173	143.1	26476	157
I-TRON 1 5P5 7030.060-5M	S05 S07 STA STE-S STU-S	60	8220	53.4	153.9	8680	47
I-TRON 1 5P5 7030.060-6M			9870	63.9	154.4	10416	56.4
I-TRON 1 5P5 7030.100-5M		100	13300	88.6	150.1	14208	79.8
I-TRON 1 5P5 7030.100-6M			15940	106	150.3	17050	95.7
I-TRON 1 5P5 7030.140-5M		140	18040	125	144.3	19503	113
I-TRON 1 5P5 7030.140-6M			21560	150	143.7	23404	136
I-TRON 1 5P5 7030.160-5M		160	20290	144	140.9	22063	130
I-TRON 1 5P5 7030.160-6M			24220	173	140	26476	157

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

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LUMINAIRE	OPTIC	LED CURRENT (mA)	RATED LUMINAIRE FLUX* (Tq=25°C, 2700K, 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, 2700K, lm)	RATED LED POWER* (Tj=85°C, W)
I-TRON 1 5P5 7027.060-5M	STE-M STU-M STW SV	60	8060	53.4	150.9	8311	47
I-TRON 1 5P5 7027.060-6M			9670	63.9	151.3	9973	56.4
I-TRON 1 5P5 7027.100-5M		100	13030	88.6	147	13604	79.8
I-TRON 1 5P5 7027.100-6M			15620	106	147.3	16324	95.7
I-TRON 1 5P5 7027.140-5M		140	17660	125	141.2	18673	113
I-TRON 1 5P5 7027.140-6M			21110	150	140.7	22408	136
I-TRON 1 5P5 7027.160-5M		160	19860	144	137.9	21124	130
I-TRON 1 5P5 7027.160-6M			23710	173	137	25349	157
I-TRON 1 5P5 7027.060-5M	S05 S07 STA STE-S STU-S	60	7870	53.4	147.3	8311	47
I-TRON 1 5P5 7027.060-6M			9450	63.9	147.8	9973	56.4
I-TRON 1 5P5 7027.100-5M		100	12740	88.6	143.7	13604	79.8
I-TRON 1 5P5 7027.100-6M			15260	106	143.9	16324	95.7
I-TRON 1 5P5 7027.140-5M		140	17270	125	138.1	18673	113
I-TRON 1 5P5 7027.140-6M			20650	150	137.6	22408	136
I-TRON 1 5P5 7027.160-5M		160	19420	144	134.8	21124	130
I-TRON 1 5P5 7027.160-6M			23180	173	133.9	25349	157

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*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: ±7%.

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

Meets Dark Sky requirements when equipped with LEDs with a colour temperature of 3000K or less.

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LUMINAIRE	OPTIC	LED CURRENT (mA)	RATED LUMINAIRE FLUX* (Tq=25°C, 2200K, 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, 2200K, lm)	RATED LED POWER* (Tj=85°C, W)
I-TRON 1 5P5 7022.060-5M	STE-M STU-M STW SV	60	7260	53.4	135.9	7480	47
I-TRON 1 5P5 7022.060-6M			8710	63.9	136.3	8976	56.4
I-TRON 1 5P5 7022.100-5M		100	11730	88.6	132.3	12243	79.8
I-TRON 1 5P5 7022.100-6M			14060	106	132.6	14692	95.7
I-TRON 1 5P5 7022.140-5M		140	15890	125	127.1	16806	113
I-TRON 1 5P5 7022.140-6M			19000	150	126.6	20167	136
I-TRON 1 5P5 7022.160-5M		160	17870	144	124	19012	130
I-TRON 1 5P5 7022.160-6M			21330	173	123.2	22814	157
I-TRON 1 5P5 7022.060-5M	S05 S07 STA STE-S STU-S	60	7080	53.4	132.5	7480	47
I-TRON 1 5P5 7022.060-6M			8500	63.9	133	8976	56.4
I-TRON 1 5P5 7022.100-5M		100	11460	88.6	129.3	12243	79.8
I-TRON 1 5P5 7022.100-6M			13740	106	129.6	14692	95.7
I-TRON 1 5P5 7022.140-5M		140	15540	125	124.3	16806	113
I-TRON 1 5P5 7022.140-6M			18580	150	123.8	20167	136
I-TRON 1 5P5 7022.160-5M		160	17480	144	121.3	19012	130
I-TRON 1 5P5 7022.160-6M			20870	173	120.6	22814	157

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