

**I-TRON 1**

**MAIN CHARACTERISTICS**

<b>Applications</b>	Street lighting
<b>Optic</b>	STU-S: Asymmetrical optic for street lighting. Narrow emission. STU-M: Asymmetrical optic for street lighting. Mid emission. STU-W: Asymmetrical optic for street lighting. Wide emission. Colour temperature: 4000K (3000K optional)   CRI ≥ 70 Photobiological safety class: EXEMPT GROUP LED source efficiency: 160 lm/W @ Tj=85°C, led module current 525mA, 4000K
<b>Insulation class</b>	EU: II, I - US: 1
<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>	7 kg
<b>Exposed surface</b>	Side: 0.04m <sup>2</sup> – Top: 0.16m <sup>2</sup>
<b>Mounting</b>	Bracket or Post-top Ø60mm Ø32 / Ø42 / Ø48 / Ø76 mm (optional)
<b>Gear tray</b>	Removable. Gear tray integrated on luminaire body, separated from optic unit. 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, EN 55015, EN 61547, EN 61000-3-2, EN-61000-3-3
<b>Marks</b>	

**ELECTRICAL CHARACTERISTICS**

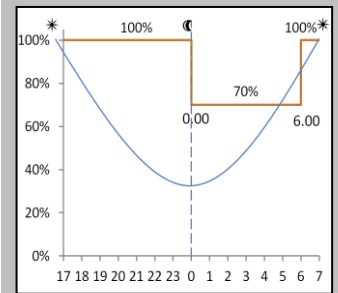
<b>Rated voltage</b>	220÷240V 50/60Hz
<b>LED module current</b>	525mA, 700mA
<b>Power factor</b>	>0,95 (at full load - F, DA, DAC)
<b>Mains connection</b>	For cables max section 4mm <sup>2</sup>
<b>Surge protection</b>	SPD integrated 10kV-10kA, type II, with LED signal and thermo fuse to disconnect load at the end of life. Pulse withstand CL.I: 10 / 10 kV CM / DM Pulse withstand CL.II: 9 / 10 kV CM / DM
<b>Control system (options)</b>	F: Fixed power not dimmable. (Base version) DA: Automatic dimming (virtual midnight) with default profile. DAC: Custom DA profile. FLC: Constant light flux. PLM: Power Line single point communication system. WL: Wireless single point communication system. DALI: Digital dimming interface DALI. NEMA: Socket 7 pin (ANSI C136.41).
<b>LED source lifetime (Tq=25°C)</b>	>100.000hr L90B10, led module current 700mA >100.000hr L90, TM21, led module current 700mA

**MATERIALS**

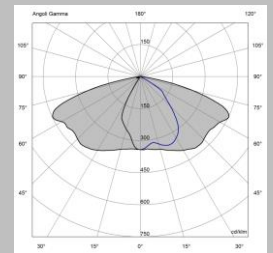
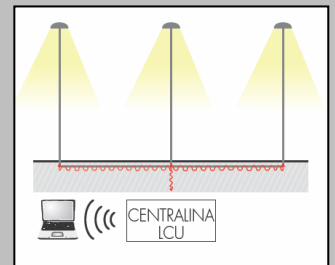
<b>Fixing</b>	
<b>Lower frame</b>	Die-cast aluminum UNI EN1706 powder painted.
<b>Upper canopy</b>	
<b>Closure hook</b>	Stainless steel captive screws
<b>Optic</b>	99.85% aluminum with a surface finish in 99.95% with vacuum-sealed deposition. (Aluminum grade class A+ DIN EN 16268)
<b>Screen</b>	Flat tempered glass, 5mm 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. AEC 3-O

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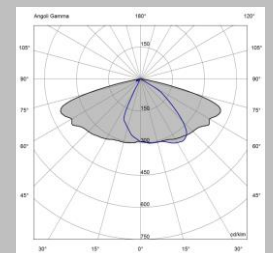
**DA Profile**



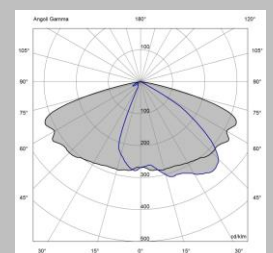
**PLM**



STU-S Optic



STU-M Optic



STU-W Optic

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



4000K

LUMINAIRE	LED Current (mA)	OPTIC	LUMINAIRE FLUX <sup>1</sup> (Tq=25°C, 4000K, lm)	LUMINAIRE POWER <sup>1</sup> (Tq=25°C, Vin=230Vac, F / DA / DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, lm/W)	RATED LED FLUX <sup>2</sup> (Tj=85°C, 4000K, lm)	RATED LED POWER <sup>2</sup> (Tj=85°C, W)
I-TRON 1 0C8 4.5-1M	525	STU-S STU-M STU-W	1690	14.5	116	1928	12
I-TRON 1 0C8 4.5-2M			3370	28	120	3856	24
I-TRON 1 0C8 4.5-3M			5080	41	124	5784	36
I-TRON 1 0C8 4.5-4M			6780	53	128	7712	48
I-TRON 1 0C8 4.5-5M			8310	65	128	9640	60
I-TRON 1 0C8 4.5-6M			9890	77	128	11568	72
I-TRON 1 0C8 4.7-1M	700	STU-S STU-M STU-W	2150	19	113	2440	17
I-TRON 1 0C8 4.7-2M			4310	37	116	4880	34
I-TRON 1 0C8 4.7-3M			6490	57	114	7320	51
I-TRON 1 0C8 4.7-4M			8630	72	120	9760	66
I-TRON 1 0C8 4.7-5M			10610	88	120	12200	82
I-TRON 1 0C8 4.7-6M			12620	106	119	14640	99

3000K

LUMINAIRE	LED Current (mA)	OPTIC	LUMINAIRE FLUX <sup>1</sup> (Tq=25°C, 4000K, lm)	LUMINAIRE POWER <sup>1</sup> (Tq=25°C, Vin=230Vac, F / DA / DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, lm/W)	RATED LED FLUX <sup>2</sup> (Tj=85°C, 4000K, lm)	RATED LED POWER <sup>2</sup> (Tj=85°C, W)
I-TRON 1 0C8 3.5-1M	525	STU-S STU-M STU-W	1570	14.5	108	1793	12
I-TRON 1 0C8 3.5-2M			3140	28	112	3586	24
I-TRON 1 0C8 3.5-3M			4730	41	115	5379	36
I-TRON 1 0C8 3.5-4M			6300	53	119	7172	48
I-TRON 1 0C8 3.5-5M			7730	65	119	8965	60
I-TRON 1 0C8 3.5-6M			9190	77	119	10758	72
I-TRON 1 0C8 3.7-1M	700	STU-S STU-M STU-W	2000	19	105	2269	17
I-TRON 1 0C8 3.7-2M			4000	37	108	4538	34
I-TRON 1 0C8 3.7-3M			6040	57	106	6808	51
I-TRON 1 0C8 3.7-4M			8030	72	111	9077	66
I-TRON 1 0C8 3.7-5M			9870	88	112	11346	82
I-TRON 1 0C8 3.7-6M			11740	106	111	13615	99

The tables above describe the flux and output power of the available versions. These parameters are necessary in order to guarantee a correct comparison of the luminaire performance. In particular, the luminaire efficiency (expressed in lm/W) must be calculated as the ratio between the output luminous flux of the luminaire and the power absorbed by the input power supply unit. For the sake of completeness the tables also show the data of the nominal flux and power of the used LED.

Note: 1:Rated data obtained in laboratory | 2:Rated data extrapolated from LED manufacturer datasheet.

The characteristics of the product listed above are subjected to change without notice. They will have to be confirmed in case of order. Values indicated in this technical sheet are to be considered rated values subject to a tolerance of +/-5%.

