



ITALO 1 X

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 (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 IK09 total
Dimensions	See the drawing
Weight	max 7kg
Exposed surface	Side: 0.06m ² – Top: 0.18m ² SCx:0.04m ²
Mounting	Bracket or Post-top Ø60mm Ø33mm ÷ Ø60mm (optional) Ø60mm ÷ Ø76mm (optional)
Tilt Angle	Post-top: 0°, +5°, +10°, +15°, +20° Bracket: 0°, -5°, -10°, -15°, -20° Bracket: +5°, 0°, -5°, -10°, -15°, -20° (only Ø33mm ÷ Ø60mm)
LED Modules	Removable / Replaceable.
Gear tray	Removable plate.
Operating temp.	-40°C / +50°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)
On-load switch	Included, with integrated cable clamp.
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)	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).
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, 4mm thickness high transparency.
Cable gland	Plastic M20x1.5 - IP68
Gasket	Polyurethane
Colour	Semi-gloss satin grey - Cod. 2B



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)
ITALO 1 X 5P5 4.060-1M	STE-M STU-M STA SV	60	1710	11.9	143.6	1847	9.4
ITALO 1 X 5P5 4.060-2M			3450	23	150	3694	18.8
ITALO 1 X 5P5 4.060-3M			5180	33.8	153.2	5541	28.2
ITALO 1 X 5P5 4.060-4M			6960	43.4	160.3	7387	37.6
ITALO 1 X 5P5 4.100-1M		100	2810	19.1	147.1	3023	16
ITALO 1 X 5P5 4.100-2M			5620	37.4	150.2	6046	31.9
ITALO 1 X 5P5 4.100-3M			8420	54.8	153.6	9069	47.9
ITALO 1 X 5P5 4.100-4M			11210	72	155.6	12092	63.8
ITALO 1 X 5P5 4.140-1M		140	3880	26.8	144.7	4150	22.7
ITALO 1 X 5P5 4.140-2M			7700	52.3	147.2	8299	45.4
ITALO 1 X 5P5 4.140-3M			11510	76.7	150	12449	68
ITALO 1 X 5P5 4.140-4M			15160	102	148.6	16598	90.7
ITALO 1 X 5P5 4.180-1M		180	4840	34.8	139	5227	29.6
ITALO 1 X 5P5 4.180-2M			9590	67.7	141.6	10453	59.1
ITALO 1 X 5P5 4.180-3M			14320	100	143.2	15680	88.7
ITALO 1 X 5P5 4.180-4M			18850	132	142.8	20906	118
ITALO 1 X 5P5 4.060-1M	S05 S07 STE-S STU-S	60	1680	11.9	141.1	1847	9.4
ITALO 1 X 5P5 4.060-2M			3370	23	146.5	3694	18.8
ITALO 1 X 5P5 4.060-3M			5060	33.8	149.7	5541	28.2
ITALO 1 X 5P5 4.060-4M			6800	43.4	156.6	7387	37.6
ITALO 1 X 5P5 4.100-1M		100	2750	19.1	143.9	3023	16
ITALO 1 X 5P5 4.100-2M			5490	37.4	146.7	6046	31.9
ITALO 1 X 5P5 4.100-3M			8230	54.8	150.1	9069	47.9
ITALO 1 X 5P5 4.100-4M			10960	72	152.2	12092	63.8
ITALO 1 X 5P5 4.140-1M		140	3790	26.8	141.4	4150	22.7
ITALO 1 X 5P5 4.140-2M			7530	52.3	143.9	8299	45.4
ITALO 1 X 5P5 4.140-3M			11260	76.7	146.8	12449	68
ITALO 1 X 5P5 4.140-4M			14820	102	145.2	16598	90.7

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)
ITALO 1 X 5P5 4.180-1M	S05 S07 STE-S STU-S	180	4730	34.8	135.9	5227	29.6
ITALO 1 X 5P5 4.180-2M			9380	67.7	138.5	10453	59.1
ITALO 1 X 5P5 4.180-3M			14000	100	140	15680	88.7
ITALO 1 X 5P5 4.180-4M			18430	132	139.6	20906	118
ITALO 1 X 5P5 4.060-1M	STW	60	1760	11.9	147.8	1847	9.4
ITALO 1 X 5P5 4.060-2M			3520	23	153	3694	18.8
ITALO 1 X 5P5 4.060-3M			5280	33.8	156.2	5541	28.2
ITALO 1 X 5P5 4.060-4M			7110	43.4	163.8	7387	37.6
ITALO 1 X 5P5 4.100-1M	STW	100	2880	19.1	150.7	3023	16
ITALO 1 X 5P5 4.100-2M			5740	37.4	153.4	6046	31.9
ITALO 1 X 5P5 4.100-3M			8600	54.8	156.9	9069	47.9
ITALO 1 X 5P5 4.100-4M			11460	72	159.1	12092	63.8
ITALO 1 X 5P5 4.140-1M	STW	140	3970	26.8	148.1	4150	22.7
ITALO 1 X 5P5 4.140-2M			7870	52.3	150.4	8299	45.4
ITALO 1 X 5P5 4.140-3M			11770	76.7	153.4	12449	68
ITALO 1 X 5P5 4.140-4M			15500	102	151.9	16598	90.7
ITALO 1 X 5P5 4.180-1M	STW	180	4950	34.8	142.2	5227	29.6
ITALO 1 X 5P5 4.180-2M			9800	67.7	144.7	10453	59.1
ITALO 1 X 5P5 4.180-3M			14640	100	146.4	15680	88.7
ITALO 1 X 5P5 4.180-4M			19280	132	146	20906	118

*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: $\pm 10\%$.

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)
ITALO 1 X 5P5 3.060-1M	STE-M STU-M STA SV	60	1610	11.9	135.2	1736	9.4
ITALO 1 X 5P5 3.060-2M			3240	23	140.8	3472	18.8
ITALO 1 X 5P5 3.060-3M			4870	33.8	144	5208	28.2
ITALO 1 X 5P5 3.060-4M			6540	43.4	150.6	6944	37.6
ITALO 1 X 5P5 3.100-1M		100	2640	19.1	138.2	2842	16
ITALO 1 X 5P5 3.100-2M			5280	37.4	141.1	5683	31.9
ITALO 1 X 5P5 3.100-3M			7910	54.8	144.3	8525	47.9
ITALO 1 X 5P5 3.100-4M			10540	72	146.3	11367	63.8
ITALO 1 X 5P5 3.140-1M		140	3650	26.8	136.1	3901	22.7
ITALO 1 X 5P5 3.140-2M			7240	52.3	138.4	7801	45.4
ITALO 1 X 5P5 3.140-3M			10820	76.7	141	11702	68
ITALO 1 X 5P5 3.140-4M			14250	102	139.7	15602	90.7
ITALO 1 X 5P5 3.180-1M		180	4550	34.8	130.7	4913	29.6
ITALO 1 X 5P5 3.180-2M			9010	67.7	133	9826	59.1
ITALO 1 X 5P5 3.180-3M			13460	100	134.6	14739	88.7
ITALO 1 X 5P5 3.180-4M			17720	132	134.2	19652	118
ITALO 1 X 5P5 3.060-1M	S05 S07 STE-S STU-S	60	1580	11.9	132.7	1736	9.4
ITALO 1 X 5P5 3.060-2M			3170	23	137.8	3472	18.8
ITALO 1 X 5P5 3.060-3M			4750	33.8	140.5	5208	28.2
ITALO 1 X 5P5 3.060-4M			6390	43.4	147.2	6944	37.6
ITALO 1 X 5P5 3.100-1M		100	2590	19.1	135.6	2842	16
ITALO 1 X 5P5 3.100-2M			5160	37.4	137.9	5683	31.9
ITALO 1 X 5P5 3.100-3M			7740	54.8	141.2	8525	47.9
ITALO 1 X 5P5 3.100-4M			10300	72	143	11367	63.8
ITALO 1 X 5P5 3.140-1M		140	3560	26.8	132.8	3901	22.7
ITALO 1 X 5P5 3.140-2M			7080	52.3	135.3	7801	45.4
ITALO 1 X 5P5 3.140-3M			10580	76.7	137.9	11702	68
ITALO 1 X 5P5 3.140-4M			13930	102	136.5	15602	90.7

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)
ITALO 1 X 5P5 3.180-1M	S05 S07 STE-S STU-S	180	4450	34.8	127.8	4913	29.6
ITALO 1 X 5P5 3.180-2M			8820	67.7	130.2	9826	59.1
ITALO 1 X 5P5 3.180-3M			13160	100	131.6	14739	88.7
ITALO 1 X 5P5 3.180-4M			17330	132	131.2	19652	118
ITALO 1 X 5P5 3.060-1M	STW	60	1650	11.9	138.6	1736	9.4
ITALO 1 X 5P5 3.060-2M			3310	23	143.9	3472	18.8
ITALO 1 X 5P5 3.060-3M			4970	33.8	147	5208	28.2
ITALO 1 X 5P5 3.060-4M			6680	43.4	153.9	6944	37.6
ITALO 1 X 5P5 3.100-1M	STW	100	2710	19.1	141.8	2842	16
ITALO 1 X 5P5 3.100-2M			5400	37.4	144.3	5683	31.9
ITALO 1 X 5P5 3.100-3M			8080	54.8	147.4	8525	47.9
ITALO 1 X 5P5 3.100-4M			10770	72	149.5	11367	63.8
ITALO 1 X 5P5 3.140-1M	STW	140	3730	26.8	139.1	3901	22.7
ITALO 1 X 5P5 3.140-2M			7400	52.3	141.4	7801	45.4
ITALO 1 X 5P5 3.140-3M			11060	76.7	144.1	11702	68
ITALO 1 X 5P5 3.140-4M			14570	102	142.8	15602	90.7
ITALO 1 X 5P5 3.180-1M	STW	180	4650	34.8	133.6	4913	29.6
ITALO 1 X 5P5 3.180-2M			9210	67.7	136	9826	59.1
ITALO 1 X 5P5 3.180-3M			13760	100	137.6	14739	88.7
ITALO 1 X 5P5 3.180-4M			18120	132	137.2	19652	118

*RATED LUMINAIRE FLUX / RATED LUMINAIRE POWER: Rated data obtained in laboratory.

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