



ITALO 1

MAIN CHARACTERISTICS

Applications	Street lighting.
Optic	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/SV2: Asymmetrical optic for narrow urban streets or highway entrance/exit turns. OP-DX/SX: Asymmetrical optic for crosswalks lighting. S05: Asymmetrical optic for street, urban and green areas lighting. STA/STA1: Asymmetrical optic for V and P categories. Colour temperature: 4000K (3000K optional) CRI ≥ 70 LOR= 100%, DLOR= 100%, ULOR= 0% Photobiological safety class: EXEMPT GROUP LED source efficiency: 168 lm/W @ 525mA, Tj=85°C, 4000K
Insulation class	II, I
Protection degree	IP66 IK09 total
Dimensions	See the drawing
Weight	max 7 kg
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 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 (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, 700mA)	>100.000hr L90B10 >100.000hr L90, TM-21

MATERIALS

Fixing	Die-cast aluminum UNI EN1706 powder painted.
Heat-sink	
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	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 0F2H1 4.5-1M	S05	1880	16	117	2184	13
ITALO 1 0F2H1 4.5-2M	STU-M	3690	30.5	120	4368	26
ITALO 1 0F2H1 4.5-3M	STU-S	5530	44	125	6552	39
ITALO 1 0F2H1 4.5-4M	SV	7150	57	125	8736	52
ITALO 1 0F2H1 4.7-1M	SV2	2420	21.5	112	2765	18
ITALO 1 0F2H1 4.7-2M	STU-M	4720	40	118	5530	36
ITALO 1 0F2H1 4.7-3M	STU-S	7030	58	121	8295	54
ITALO 1 0F2H1 4.7-4M	SV	8990	76	118	11060	72
ITALO 1 0F3 4.5-1M	SV2	2610	21.5	121	2950	17
ITALO 1 0F3 4.5-2M	STE-M	5160	39	132	5900	34
ITALO 1 0F3 4.5-3M	STE-S	7490	57	131	8850	51
ITALO 1 0F3 4.5-4M	STW	9950	76	130	11800	68
ITALO 1 0F3 4.7-1M	STE-M	3270	28	116	3735	24
ITALO 1 0F3 4.7-2M	STE-S	6530	52	125	7470	48
ITALO 1 0F3 4.7-3M	STW	9420	76	123	11205	72
ITALO 1 0F3 4.7-4M	STE-M	12550	102	123	14940	96
ITALO 1 0F3 4.5-1M	STE-S	2510	21.5	116	2950	17
ITALO 1 0F3 4.5-2M	S05	4950	39	126	5900	34
ITALO 1 0F3 4.5-3M	S05	7190	57	126	8850	51
ITALO 1 0F3 4.5-4M	S05	9550	76	125	11800	68
ITALO 1 0F3 4.7-1M	S05	3140	28	112	3735	24
ITALO 1 0F3 4.7-2M	S05	6270	52	120	7470	48
ITALO 1 0F3 4.7-3M	S05	9040	76	118	11205	72
ITALO 1 0F3 4.7-4M	S05	12050	102	118	14940	96



LUMINAIRE	OPTIC	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 0F6 4.5-1M	OP-DX	5160	39	132	5901	35
ITALO 1 0F6 4.5-2M	OP-SX	9950	76	130	11802	70
ITALO 1 0F6 4.7-1M	OP-DX	6530	52	125	7470	47
ITALO 1 0F6 4.7-2M	OP-SX	12550	102	123	14940	94
ITALO 1 0F2 4.5-1M	STA STA1	1650	14	117	1967	12
ITALO 1 0F2 4.5-2M		3230	27	119	3934	24
ITALO 1 0F2 4.5-3M		4850	39	124	5901	36
ITALO 1 0F2 4.5-4M		6140	51	120	7868	48
ITALO 1 0F2 4.7-1M	STA STA1	2120	19.5	108	2490	16
ITALO 1 0F2 4.7-2M		4130	36	114	4980	32
ITALO 1 0F2 4.7-3M		6160	51.5	119	7470	48
ITALO 1 0F2 4.7-4M		7720	67.5	114	9960	64

*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.

LUMINAIRE	OPTIC	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 0F2H1 3.5-1M	S05	1750	16	109	1990	13
ITALO 1 0F2H1 3.5-2M	STU-M	3430	30.5	112	3980	26
ITALO 1 0F2H1 3.5-3M	STU-S	5140	44	116	5970	39
ITALO 1 0F2H1 3.5-4M	SV	6650	57	116	7960	52
ITALO 1 0F2H1 3.7-1M	SV2	6650	57	116	7960	52
ITALO 1 0F2H1 3.7-1M	S05	2250	21.5	104	2520	18
ITALO 1 0F2H1 3.7-2M	STU-M	4390	40	109	5040	36
ITALO 1 0F2H1 3.7-3M	STU-S	6540	58	112	7560	54
ITALO 1 0F2H1 3.7-4M	SV	8360	76	110	10080	72
ITALO 1 0F2H1 3.7-4M	SV2	8360	76	110	10080	72
ITALO 1 0F3 3.5-1M		2430	21.5	113	2701	17
ITALO 1 0F3 3.5-2M	STE-M	4800	39	123	5402	34
ITALO 1 0F3 3.5-3M	STE-S	6970	57	122	8103	51
ITALO 1 0F3 3.5-4M	STW	9250	76	121	10804	68
ITALO 1 0F3 3.7-1M		3040	28	108	3420	24
ITALO 1 0F3 3.7-2M	STE-M	6070	52	116	6840	48
ITALO 1 0F3 3.7-3M	STE-S	8760	76	115	10260	72
ITALO 1 0F3 3.7-4M	STW	11670	102	114	13680	96
ITALO 1 0F3 3.5-1M		2330	21.5	108	2701	17
ITALO 1 0F3 3.5-2M	S05	4600	39	117	5402	34
ITALO 1 0F3 3.5-3M	S05	6690	57	117	8103	51
ITALO 1 0F3 3.5-4M	S05	8880	76	116	10804	68
ITALO 1 0F3 3.7-1M		2920	28	104	3420	24
ITALO 1 0F3 3.7-2M	S05	5830	52	112	6840	48
ITALO 1 0F3 3.7-3M	S05	8410	76	110	10260	72
ITALO 1 0F3 3.7-4M	S05	11210	102	109	13680	96

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ITALO 1 0F6 3.5-1M	OP-DX	4800	39	123	5190	35
ITALO 1 0F6 3.5-2M	OP-SX	9250	76	121	10380	70
ITALO 1 0F6 3.7-1M	OP-DX	6070	52	116	6570	47
ITALO 1 0F6 3.7-2M	OP-SX	11670	102	114	13140	94
ITALO 1 0F2 3.5-1M	STA STA1	1530	14	109	1801	12
ITALO 1 0F2 3.5-2M		3000	27	111	3602	24
ITALO 1 0F2 3.5-3M		4510	39	115	5403	36
ITALO 1 0F2 3.5-4M		5710	51	111	7204	48
ITALO 1 0F2 3.7-1M	STA STA1	1970	19.5	101	2280	16
ITALO 1 0F2 3.7-2M		3840	36	106	4560	32
ITALO 1 0F2 3.7-3M		5730	51.5	111	6840	48
ITALO 1 0F2 3.7-4M		7180	67.5	106	9120	64

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

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Values indicated in this technical sheet are to be considered rated values. Flux tolerance: $\pm 7\%$. Power tolerance: $\pm 5\%$.

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