

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: Asymmetrical optic for narrow urban streets or highway entrance/exit turns. OP-DX / SX: Asymmetrical optic for crosswalks lighting. S05: Asymmetrical optic for urban and street lighting. STA / STA1: Asymmetrical optic for V and P categories. Colour temperature: 4000K (optional 3000K, 5700K) 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	EU: II, I - US: 1
Protection degree	IP66 IK09 total
LED Modules	Removable / Replaceable.
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)
Dimensions	See the drawing
Weight	7kg max
Exposed surface	Side: 0.06m² – Top: 0.18m² SCx:0.04m²
Mounting	Bracket or Post-top Ø60mm Ø33mm ÷ Ø60mm (optional) Ø60mm ÷ Ø76mm (optional)
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



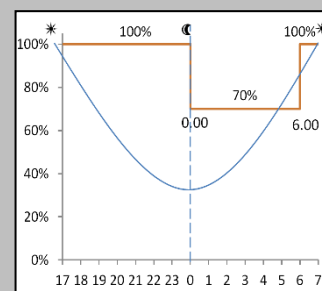
ELECTRICAL CHARACTERISTICS

Rated voltage	220÷240V 50/60Hz (Standard tolerance +/-10%, other voltages and tolerances upon request)
LED current	525mA, 700mA
Power factor	>0,9 (at full load - PLM) >0,95 (at full load - F, DA, DAC)
On-load switch	Included, with integrated cable clamp.
Mains connection	For cables max section 4mm²
Surge protection	SPD integrated 10kV-10kA, type II, with LED signal and thermo fuse to disconnect load at the end of life. Pulse withstand: 10kV / 10kV CM/DM
Control system (options)	F: Fixed power not dimmable. 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). ZHAGA: Socket 4 pin (ZHAGA book 18).
Optical unit lifetime (Tq=25°C, 700mA)	≥100.000hr L90B10 ≥100.000hr L90, TM-21

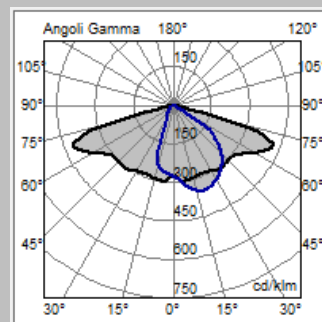
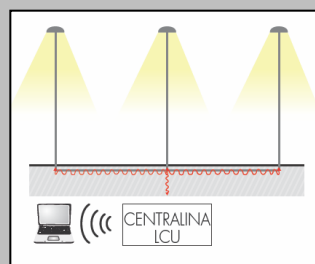
MATERIALS

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

DA Profile



PLM



STU-M Optic

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



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 4.50-1M	S05 STU-M STU-S SV	1800	15	120	2073	12
ITALO 1 0F2H1 4.5-2M	S05 STU-M STU-S SV	3690	30.5	120	4368	26
ITALO 1 0F2H1 4.5-3M	S05 STU-M STU-S SV	5530	44	125	6552	39
ITALO 1 0F2H1 4.5-4M	S05 STU-M STU-S SV	7150	57	125	8736	52
ITALO 1 0F2H1 4.7-1M	S05 STU-M STU-S SV	2420	21.5	112	2765	18
ITALO 1 0F2H1 4.7-2M	S05 STU-M STU-S SV	4720	40	118	5530	36
ITALO 1 0F2H1 4.7-3M	S05 STU-M STU-S SV	7030	58	121	8295	54
ITALO 1 0F2H1 4.7-4M	S05 STU-M STU-S SV	8990	76	118	11060	72

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 0F3 4.50-1M	STE-M STE-S STW	2510	20.5	122	2801	17
ITALO 1 0F3 4.5-2M	STE-M STE-S STW	5160	39	132	5900	36
ITALO 1 0F3 4.5-3M	STE-M STE-S STW	7490	57	131	8850	54
ITALO 1 0F3 4.5-4M	STE-M STE-S STW	9950	76	130	11800	72
ITALO 1 0F3 4.7-1M	STE-M STE-S STW	3270	28	116	3735	24
ITALO 1 0F3 4.7-2M	STE-M STE-S STW	6530	52	125	7470	48
ITALO 1 0F3 4.7-3M	STE-M STE-S STW	9420	76	123	11205	72
ITALO 1 0F3 4.7-4M	STE-M STE-S STW	12550	102	123	14940	96
ITALO 1 0F2 4.50-1M	STA STA1	1550	13.5	114	1867	11

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 0F2 4.5-2M	STA STA1	3170	27	117	3934	24
ITALO 1 0F2 4.5-3M	STA STA1	4750	39	121	5901	36
ITALO 1 0F2 4.5-4M	STA STA1	6020	51	118	7868	48
ITALO 1 0F2 4.7-1M	STA STA1	2080	19.5	106	2490	16
ITALO 1 0F2 4.7-2M	STA STA1	4050	36	112	4980	32
ITALO 1 0F2 4.7-3M	STA STA1	6040	52	116	7470	48
ITALO 1 0F2 4.7-4M	STA STA1	7570	68	111	9960	64
ITALO 1 0F6 4.5-1M	OP-DX OP-SX	5160	39	132	5214	35
ITALO 1 0F6 4.5-2M	OP-DX OP-SX	9950	76	130	10428	70
ITALO 1 0F6 4.7-1M	OP-DX OP-SX	6530	52	125	6600	47
ITALO 1 0F6 4.7-2M	OP-DX OP-SX	12550	102	123	13200	94

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

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

The characteristics of the product listed above are subjected to change without notice.

Values indicated in this technical sheet are to be considered rated values subject to a tolerance of +/-5%.

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 3.50-1M	S05 STU-M STU-S SV	1670	15	111	1928	12
ITALO 1 0F2H1 3.5-2M	S05 STU-M STU-S SV	3430	30.5	112	4062	26
ITALO 1 0F2H1 3.5-3M	S05 STU-M STU-S SV	5140	44	117	6093	39
ITALO 1 0F2H1 3.5-4M	S05 STU-M STU-S SV	6650	57	117	8124	52
ITALO 1 0F2H1 3.7-1M	S05 STU-M STU-S SV	2250	21.5	105	2571	18
ITALO 1 0F2H1 3.7-2M	S05 STU-M STU-S SV	4390	40	110	5143	36
ITALO 1 0F2H1 3.7-3M	S05 STU-M STU-S SV	6540	58	113	7714	54
ITALO 1 0F2H1 3.7-4M	S05 STU-M STU-S SV	8360	76	110	10286	72

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 0F3 3.50-1M	STE-M STE-S STW	2330	20.5	114	2605	17
ITALO 1 0F3 3.5-2M	STE-M STE-S STW	4800	39	123	5487	36
ITALO 1 0F3 3.5-3M	STE-M STE-S STW	6970	57	122	8231	54
ITALO 1 0F3 3.5-4M	STE-M STE-S STW	9250	76	122	10974	72
ITALO 1 0F3 3.7-1M	STE-M STE-S STW	3040	28	109	3474	24
ITALO 1 0F3 3.7-2M	STE-M STE-S STW	6070	52	117	6947	48
ITALO 1 0F3 3.7-3M	STE-M STE-S STW	8760	76	115	10421	72
ITALO 1 0F3 3.7-4M	STE-M STE-S STW	11670	102	114	13894	96
ITALO 1 0F2 3.50-1M	STA STA1	1440	13.5	107	1736	11

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 0F2 3.5-2M	STA STA1	2950	27	109	3659	24
ITALO 1 0F2 3.5-3M	STA STA1	4420	39	113	5488	36
ITALO 1 0F2 3.5-4M	STA STA1	5600	51	110	7317	48
ITALO 1 0F2 3.7-1M	STA STA1	1930	19.5	99	2316	16
ITALO 1 0F2 3.7-2M	STA STA1	3770	36	105	4631	32
ITALO 1 0F2 3.7-3M	STA STA1	5620	52	108	6947	48
ITALO 1 0F2 3.7-4M	STA STA1	7040	68	104	9263	64
ITALO 1 0F6 3.5-1M	OP-DX OP-SX	4800	39	123	4849	35
ITALO 1 0F6 3.5-2M	OP-DX OP-SX	9250	76	122	9698	70
ITALO 1 0F6 3.7-1M	OP-DX OP-SX	6070	52	117	6138	47
ITALO 1 0F6 3.7-2M	OP-DX OP-SX	11670	102	114	12276	94

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