



ITALO 2

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/SV2: Asymmetrical optic for narrow urban streets or highway entrance/exit turns. S05: Asymmetrical optic for urban and street lighting. STA/STA1: Asymmetrical optic for V and P categories. OP-DX/SX: Asymmetrical optic for crosswalks lighting. Colour temperature: 4000K (3000K optional) CRI ≥ 50 LOR= 100%, DLOR= 100%, ULOR= 0% Photobiological safety class: EXEMPT GROUP LED source efficiency: 168 lm/W @ 525mA, Tj=85°C, 4000K</p>
Insulation class	II, I
Protection degree	IP66 IK09 total
Dimensions & weight	See the drawing – max. 12,5 kg
Exposed surface	Side: 0.08m ² – Top: 0.3m ² SCx:0.06m 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)
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 aluminium UNI EN1706 powder painted.
Heat-sink	
Lower frame	
Upper canopy	
Closure hook	Extruded aluminium with stainless steel spring.
Optic	99.85% aluminium with a surface finish in 99.95% with vacuum-sealed deposition. Alluminum grade class A+ (DIN EN 16268)
Screen	Flat tempered glass, 5mm thickness.
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 2 0F2H1 4.5-4M	S05	7150	57	125	8736	52
ITALO 2 0F2H1 4.5-5M	STU-M	9430	72	130	10920	65
ITALO 2 0F2H1 4.5-6M	STU-S	11110	85	130	13104	78
ITALO 2 0F2H1 4.5-7M	SV	12920	99	130	15288	91
ITALO 2 0F2H1 4.5-8M	SV2	14750	113	130	17472	104
ITALO 2 0F2H1 4.7-4M	S05	8990	76	118	11060	72
ITALO 2 0F2H1 4.7-5M	STU-M	11890	95	125	13825	90
ITALO 2 0F2H1 4.7-6M	STU-S	14070	114	123	16590	108
ITALO 2 0F2H1 4.7-7M	SV	16290	132	123	19355	126
ITALO 2 0F2H1 4.7-8M	SV2	18580	151	123	22120	144
ITALO 2 0F3 4.5-4M		9950	76	130	11800	68
ITALO 2 0F3 4.5-5M	STE-M	12720	95	133	14750	85
ITALO 2 0F3 4.5-6M	STE-S	15170	112	135	17700	102
ITALO 2 0F3 4.5-7M	STW	17590	131	134	20650	119
ITALO 2 0F3 4.5-8M		20030	150	133	23600	136
ITALO 2 0F3 4.7-4M	STE-M	12550	102	123	14940	96
ITALO 2 0F3 4.7-5M	STE-S	15950	127	125	18675	120
ITALO 2 0F3 4.7-6M	STW	19040	150	126	22410	144
ITALO 2 0F3 4.5-4M		9550	76	125	11800	68
ITALO 2 0F3 4.5-5M		12210	95	128	14750	85
ITALO 2 0F3 4.5-6M	S05	14560	112	130	17700	102
ITALO 2 0F3 4.5-7M		16890	131	128	20650	119
ITALO 2 0F3 4.5-8M		19230	150	128	23600	136
ITALO 2 0F3 4.7-4M		12050	102	118	14940	96
ITALO 2 0F3 4.7-5M	S05	15310	127	120	18675	120
ITALO 2 0F3 4.7-6M		18280	150	121	22410	144



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 2 0F6 4.5-2M	OP-DX OP-SX	9950	76	130	11802	70
ITALO 2 0F6 4.5-3M		15170	112	135	17703	105
ITALO 2 0F6 4.5-4M		20030	150	133	23604	140
ITALO 2 0F6 4.7-2M	OP-DX	12550	102	123	14940	94
ITALO 2 0F6 4.7-3M	OP-SX	19040	150	126	22410	141
ITALO 2 0F2 4.5-4M	STA STA1	6140	51	120	7868	48
ITALO 2 0F2 4.5-5M		8280	64	129	9835	60
ITALO 2 0F2 4.5-6M		9730	76	128	11802	72
ITALO 2 0F2 4.5-7M		11310	88	128	13769	84
ITALO 2 0F2 4.5-8M		12930	100	129	15736	96
ITALO 2 0F2 4.7-4M	STA STA1	7720	67.5	114	9960	64
ITALO 2 0F2 4.7-5M		10440	85	122	12450	80
ITALO 2 0F2 4.7-6M		12330	101	122	14940	96
ITALO 2 0F2 4.7-7M		14270	117	121	17430	112
ITALO 2 0F2 4.7-8M		16280	134	121	19920	128

*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: $\pm 5\%$.
Power tolerance with ZHAGA version or power supply D4/SR: $\pm 10\%$.

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 2 0F2H1 3.5-4M	S05	6650	57	116	7960	52
ITALO 2 0F2H1 3.5-5M	STU-M	8770	72	121	9950	65
ITALO 2 0F2H1 3.5-6M	STU-S	10330	85	121	11940	78
ITALO 2 0F2H1 3.5-7M	SV	12020	99	121	13930	91
ITALO 2 0F2H1 3.5-8M	SV2	13720	113	121	15920	104
ITALO 2 0F2H1 3.7-4M	S05	8360	76	110	10080	72
ITALO 2 0F2H1 3.7-5M	STU-M	11060	95	116	12600	90
ITALO 2 0F2H1 3.7-6M	STU-S	13090	114	114	15120	108
ITALO 2 0F2H1 3.7-7M	SV	15150	132	114	17640	126
ITALO 2 0F2H1 3.7-8M	SV2	17280	151	114	20160	144
ITALO 2 0F3 3.5-4M		9250	76	121	10804	68
ITALO 2 0F3 3.5-5M	STE-M	11830	95	124	13505	85
ITALO 2 0F3 3.5-6M	STE-S	14110	112	125	16206	102
ITALO 2 0F3 3.5-7M	STW	16360	131	124	18907	119
ITALO 2 0F3 3.5-8M		18630	150	124	21608	136
ITALO 2 0F3 3.7-4M	STE-M	11670	102	114	13680	96
ITALO 2 0F3 3.7-5M	STE-S	14830	127	116	17100	120
ITALO 2 0F3 3.7-6M	STW	17710	150	118	20520	144
ITALO 2 0F3 3.5-4M		8880	76	116	10804	68
ITALO 2 0F3 3.5-5M		11360	95	119	13505	85
ITALO 2 0F3 3.5-6M	S05	13540	112	120	16206	102
ITALO 2 0F3 3.5-7M		15710	131	119	18907	119
ITALO 2 0F3 3.5-8M		17880	150	119	21608	136
ITALO 2 0F3 3.7-4M		11210	102	109	13680	96
ITALO 2 0F3 3.7-5M	S05	14240	127	112	17100	120
ITALO 2 0F3 3.7-6M		17000	150	113	20520	144



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ITALO 2 0F6 3.5-2M	OP-DX OP-SX	9250	76	121	10380	70
ITALO 2 0F6 3.5-3M		14110	112	125	15570	105
ITALO 2 0F6 3.5-4M		18630	150	124	20760	140
ITALO 2 0F6 3.7-2M	OP-DX	11670	102	114	13140	94
ITALO 2 0F6 3.7-3M	OP-SX	17710	150	118	19710	141
ITALO 2 0F2 3.5-4M	STA STA1	5710	51	111	7204	48
ITALO 2 0F2 3.5-5M		7700	64	120	9005	60
ITALO 2 0F2 3.5-6M		9050	76	119	10806	72
ITALO 2 0F2 3.5-7M		10520	88	119	12607	84
ITALO 2 0F2 3.5-8M		12020	100	120	14408	96
ITALO 2 0F2 3.7-4M	STA STA1	7180	67.5	106	9120	64
ITALO 2 0F2 3.7-5M		9710	85	114	11400	80
ITALO 2 0F2 3.7-6M		11470	101	113	13680	96
ITALO 2 0F2 3.7-7M		13270	117	113	15960	112
ITALO 2 0F2 3.7-8M		15140	134	112	18240	128

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