

ITALO 2 URBAN

MAIN CHARACTERISTICS

Applications	Urban 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 narrow urban streets or highway entrance/exit turns. S05: Asymmetrical optic for urban and street lighting. S: Roto-symmetric optic for urban lighting and green areas. OP-DX / SX: Asymmetrical optic for crosswalks lighting. Colour temperature: 4000K (3000K optional) CRI ≥ 70 LOR= 100%, DLOR= 100%, ULOR= 0% Photobiological safety class: EXEMPT GROUP LED source efficiency: 168lm/W @ 525mA, Tj=85°C, 4000K</p>
Insulation class	II, I
Protection degree	IP66 IK09 total
LED Modules	Removable
Tilt Angle	Post-top: 0°, +5°, +10°, +15°, +20° Bracket: 0°, -5°, -10°, -15°, -20°
Dimensions - Weight	See the drawing – 12Kg
Exposed surface	Side: 0.06m ² – Top: 0.25m ² SCx: 0.04m ²
Mounting	Bracket or Post-top Ø60mm Ø33mm ÷ Ø60mm (optional) Ø60mm ÷ Ø76mm (optional)
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	>0,9 (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 II, with LED signal and thermo fuse to disconnect load at the end of life.

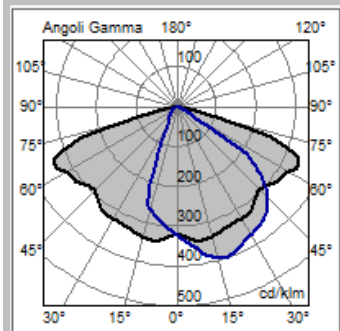
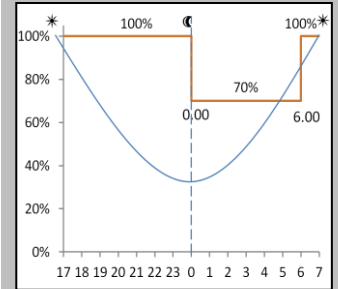
Control system (options)	<p>F: Fixed power not dimmable. DA: Automatic dimming (virtual midnight) with default profile. DAC: Custom DA profile. FLC: Constant light flux. WL: Wireless single point communication system. DALI: Digital dimming interface DALI. NEMA: Socket 7 pin (ANSI C136.41). ZHAGA: Socket 4 pin (ZHAGA book 18).</p>
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Optical unit lifetime (Tq=25°C, 700mA)	<p>>100.000hr L90B10 >100.000hr L90, TM-21</p>
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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. Alluminun grade class A+ (DIN EN 16268)
Screen	Flat tempered glass, 4mm thickness.
Cable gland	Plastic M20x1.5 - IP68
Gasket	Polyurethane
Colour	Semi-gloss satin grey - Cod. 2B

DA Profile



STE-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 2 UB 0F2H1 4.5-1M	STU-M STU-S SV S05	1880	16	117	2184	13
ITALO 2 UB 0F2H1 4.5-2M		3690	30.5	120	4368	26
ITALO 2 UB 0F2H1 4.5-3M		5530	44	125	6552	39
ITALO 2 UB 0F2H1 4.5-4M		7150	57	125	8736	52
ITALO 2 UB 0F2H1 4.5-5M		9430	72	130	10920	65
ITALO 2 UB 0F2H1 4.5-6M		11110	85	130	13104	78
ITALO 2 UB 0F2H1 4.5-7M		12920	99	130	15288	91
ITALO 2 UB 0F2H1 4.5-8M		14750	113	130	17472	104
ITALO 2 UB 0F2H1 4.5-9M		16900	128	132	19656	117
ITALO 2 UB 0F2H1 4.7-1M	STU-M STU-S SV S05	2420	21.5	112	2765	18
ITALO 2 UB 0F2H1 4.7-2M		4720	40	118	5530	36
ITALO 2 UB 0F2H1 4.7-3M		7030	58	121	8295	54
ITALO 2 UB 0F2H1 4.7-4M		8990	76	118	11060	72
ITALO 2 UB 0F2H1 4.7-5M		11890	95	125	13825	90
ITALO 2 UB 0F2H1 4.7-6M		14070	114	123	16590	108
ITALO 2 UB 0F2H1 4.7-7M		16290	132	123	19355	126
ITALO 2 UB 0F2H1 4.7-8M		18580	151	123	22120	144
ITALO 2 UB 0F3 4.5-1M	STE-M STE-S STW	2610	21.5	121	2950	17
ITALO 2 UB 0F3 4.5-2M		5160	39	132	5900	34
ITALO 2 UB 0F3 4.5-3M		7490	57	131	8850	51
ITALO 2 UB 0F3 4.5-4M		9950	76	130	11800	68
ITALO 2 UB 0F3 4.5-5M		12720	95	133	14750	85
ITALO 2 UB 0F3 4.5-6M		15170	112	135	17700	102
ITALO 2 UB 0F3 4.5-7M		17590	131	134	20650	119
ITALO 2 UB 0F3 4.5-8M		20030	150	133	23600	136

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 UB 0F3 4.7-1M	STE-M STE-S STW	3270	28	116	3735	24
ITALO 2 UB 0F3 4.7-2M		6530	52	125	7470	48
ITALO 2 UB 0F3 4.7-3M		9420	76	123	11205	72
ITALO 2 UB 0F3 4.7-4M		12550	102	123	14940	96
ITALO 2 UB 0F3 4.7-5M		15950	127	125	18675	120
ITALO 2 UB 0F3 4.7-6M		19040	150	126	22410	144
ITALO 2 UB 0F2H1 4.5-2M	S	3690	30.5	120	4368	26
ITALO 2 UB 0F2H1 4.5-4M		7150	57	125	8736	52
ITALO 2 UB 0F2H1 4.5-6M		11110	85	130	13104	78
ITALO 2 UB 0F2H1 4.7-2M	S	4720	40	118	5530	36
ITALO 2 UB 0F2H1 4.7-4M		8990	76	118	11060	72
ITALO 2 UB 0F2H1 4.7-6M		14070	114	123	16590	108
ITALO 2 UB 0F6 4.5-1M	OP-DX	5160	39	132	5901	35
ITALO 2 UB 0F6 4.5-2M	OP-SX	9950	76	130	11802	70
ITALO 2 UB 0F6 4.7-1M	OP-DX	6530	52	125	7470	47
ITALO 2 UB 0F6 4.7-2M	OP-SX	12550	102	123	14940	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.

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 D4i/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 UB 0F2H1 3.5-1M	STU-M STU-S SV S05	1750	16	109	1990	13
ITALO 2 UB 0F2H1 3.5-2M		3430	30.5	112	3980	26
ITALO 2 UB 0F2H1 3.5-3M		5140	44	116	5970	39
ITALO 2 UB 0F2H1 3.5-4M		6650	57	116	7960	52
ITALO 2 UB 0F2H1 3.5-5M		8770	72	121	9950	65
ITALO 2 UB 0F2H1 3.5-6M		10330	85	121	11940	78
ITALO 2 UB 0F2H1 3.5-7M		12020	99	121	13930	91
ITALO 2 UB 0F2H1 3.5-8M		13720	113	121	15920	104
ITALO 2 UB 0F2H1 3.5-9M	15720	128	122	17910	117	
ITALO 2 UB 0F2H1 3.7-1M	STU-M STU-S SV S05	2250	21.5	104	2520	18
ITALO 2 UB 0F2H1 3.7-2M		4390	40	109	5040	36
ITALO 2 UB 0F2H1 3.7-3M		6540	58	112	7560	54
ITALO 2 UB 0F2H1 3.7-4M		8360	76	110	10080	72
ITALO 2 UB 0F2H1 3.7-5M		11060	95	116	12600	90
ITALO 2 UB 0F2H1 3.7-6M		13090	114	114	15120	108
ITALO 2 UB 0F2H1 3.7-7M		15150	132	114	17640	126
ITALO 2 UB 0F2H1 3.7-8M		17280	151	114	20160	144
ITALO 2 UB 0F3 3.5-1M	STE-M STE-S STW	2430	21.5	113	2701	17
ITALO 2 UB 0F3 3.5-2M		4800	39	123	5402	34
ITALO 2 UB 0F3 3.5-3M		6970	57	122	8103	51
ITALO 2 UB 0F3 3.5-4M		9250	76	121	10804	68
ITALO 2 UB 0F3 3.5-5M		11830	95	124	13505	85
ITALO 2 UB 0F3 3.5-6M		14110	112	125	16206	102
ITALO 2 UB 0F3 3.5-7M		16360	131	124	18907	119
ITALO 2 UB 0F3 3.5-8M		18630	150	124	21608	136

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 UB 0F3 3.7-1M	STE-M STE-S STW	3040	28	108	3420	24
ITALO 2 UB 0F3 3.7-2M		6070	52	116	6840	48
ITALO 2 UB 0F3 3.7-3M		8760	76	115	10260	72
ITALO 2 UB 0F3 3.7-4M		11670	102	114	13680	96
ITALO 2 UB 0F3 3.7-5M		14830	127	116	17100	120
ITALO 2 UB 0F3 3.7-6M		17710	150	118	20520	144
ITALO 2 UB 0F2H1 3.5-2M	S	3430	30.5	112	3980	26
ITALO 2 UB 0F2H1 3.5-4M		6650	57	116	7960	52
ITALO 2 UB 0F2H1 3.5-6M		10330	85	121	11940	78
ITALO 2 UB 0F2H1 3.7-2M	S	4390	40	109	5040	36
ITALO 2 UB 0F2H1 3.7-4M		8360	76	110	10080	72
ITALO 2 UB 0F2H1 3.7-6M		13090	114	114	15120	108
ITALO 2 UB 0F6 3.5-1M	OP-DX	4800	39	123	5190	35
ITALO 2 UB 0F6 3.5-2M	OP-SX	9250	76	121	10380	70
ITALO 2 UB 0F6 3.7-1M	OP-DX	6070	52	116	6570	47
ITALO 2 UB 0F6 3.7-2M	OP-SX	11670	102	114	13140	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.

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.