

## ITALO 2 URBAN S

### MAIN CHARACTERISTICS

<b>Applications</b>	Urban and street lighting.
<b>Optic</b>	<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: Asymmetrical optic for street, urban and green areas lighting.                  S: Symmetrical 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>
<b>Insulation class</b>	II, I
<b>Protection degree</b>	IP66   IK09 total
<b>LED Modules</b>	Removable
<b>Tilt Angle</b>	0°
<b>Dimensions - Weight</b>	See the drawing – 12Kg
<b>Exposed surface</b>	Side: 0.06m <sup>2</sup> – Top: 0.25m <sup>2</sup>   SCx: 0.04m <sup>2</sup>
<b>Mounting</b>	Installation on brackets 1/2" GAS
<b>Gear tray</b>	Removable plate
<b>Operating temp.</b>	-40°C / +50°C
<b>Storage temp.</b>	-40°C / +80°C
<b>Main reference standards</b>	EN 60598-1, EN 60598-2-3, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN-61000-3-3



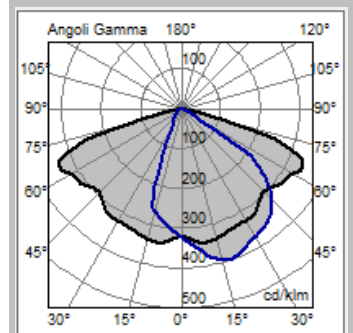
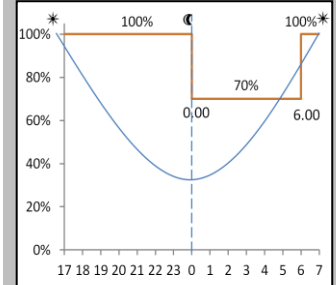
### ELECTRICAL CHARACTERISTICS

<b>Rated voltage</b>	220÷240V 50/60Hz (Standard tolerance +/-10%, other voltages and tolerances upon request)
<b>Power factor</b>	>0,9 (a pieno carico)
<b>On-load switch</b>	Included, with integrated cable clamp.
<b>Mains connection</b>	For cables max section 4mm <sup>2</sup>
<b>Surge protection</b>	Up to 10kV   With SPD (optional) 10kV / 10kV CM/DM
<b>SPD (optional)</b>	10kV-10kA, type II, with LED signal and thermo fuse to disconnect load at the end of life.
<b>Control system (options)</b>	<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>
<b>Optical unit lifetime (Tq=25°C, 700mA)</b>	>100.000hr L90B10 >100.000hr L90, TM-21

### MATERIALS

<b>Fixing</b>	Stainless steel
<b>Heat-sink</b>	Die-cast aluminium UNI EN1706 powder painted.
<b>Lower frame</b>	
<b>Upper canopy</b>	
<b>Closure hook</b>	Extruded aluminium with stainless steel spring.
<b>Optic</b>	99.85% aluminium with a surface finish in 99.95% with vacuum-sealed deposition. Alluminum grade class A+ (DIN EN 16268)
<b>Screen</b>	Flat tempered glass, 4mm thickness.
<b>Gasket</b>	Polyurethane
<b>Colour</b>	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 S 0F2H1 4.5-1M	STU-M STU-S SV S05	1880	16	117	2184	13
ITALO 2 UB S 0F2H1 4.5-2M		3690	30.5	120	4368	26
ITALO 2 UB S 0F2H1 4.5-3M		5530	44	125	6552	39
ITALO 2 UB S 0F2H1 4.5-4M		7150	57	125	8736	52
ITALO 2 UB S 0F2H1 4.5-5M		9430	72	130	10920	65
ITALO 2 UB S 0F2H1 4.5-6M		11110	85	130	13104	78
ITALO 2 UB S 0F2H1 4.5-7M		12920	99	130	15288	91
ITALO 2 UB S 0F2H1 4.5-8M		14750	113	130	17472	104
ITALO 2 UB S 0F2H1 4.5-9M		16900	128	132	19656	117
ITALO 2 UB S 0F2H1 4.7-1M	STU-M STU-S SV S05	2420	21.5	112	2765	18
ITALO 2 UB S 0F2H1 4.7-2M		4720	40	118	5530	36
ITALO 2 UB S 0F2H1 4.7-3M		7030	58	121	8295	54
ITALO 2 UB S 0F2H1 4.7-4M		8990	76	118	11060	72
ITALO 2 UB S 0F2H1 4.7-5M		11890	95	125	13825	90
ITALO 2 UB S 0F2H1 4.7-6M		14070	114	123	16590	108
ITALO 2 UB S 0F2H1 4.7-7M		16290	132	123	19355	126
ITALO 2 UB S 0F2H1 4.7-8M		18580	151	123	22120	144
ITALO 2 UB S 0F3 4.5-1M	STE-M STE-S STW	2610	21.5	121	2950	17
ITALO 2 UB S 0F3 4.5-2M		5160	39	132	5900	34
ITALO 2 UB S 0F3 4.5-3M		7490	57	131	8850	51
ITALO 2 UB S 0F3 4.5-4M		9950	76	130	11800	68
ITALO 2 UB S 0F3 4.5-5M		12720	95	133	14750	85
ITALO 2 UB S 0F3 4.5-6M		15170	112	135	17700	102
ITALO 2 UB S 0F3 4.5-7M		17590	131	134	20650	119
ITALO 2 UB S 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 S 0F3 4.7-1M	STE-M STE-S STW	3270	28	116	3735	24
ITALO 2 UB S 0F3 4.7-2M		6530	52	125	7470	48
ITALO 2 UB S 0F3 4.7-3M		9420	76	123	11205	72
ITALO 2 UB S 0F3 4.7-4M		12550	102	123	14940	96
ITALO 2 UB S 0F3 4.7-5M		15950	127	125	18675	120
ITALO 2 UB S 0F3 4.7-6M		19040	150	126	22410	144
ITALO 2 UB S 0F2H1 4.5-2M	S	3690	30.5	120	4368	26
ITALO 2 UB S 0F2H1 4.5-4M		7150	57	125	8736	52
ITALO 2 UB S 0F2H1 4.5-6M		11110	85	130	13104	78
ITALO 2 UB S 0F2H1 4.7-2M	S	4720	40	118	5530	36
ITALO 2 UB S 0F2H1 4.7-4M		8990	76	118	11060	72
ITALO 2 UB S 0F2H1 4.7-6M		14070	114	123	16590	108
ITALO 2 UB S 0F6 4.5-1M	OP-DX	5160	39	132	5901	35
ITALO 2 UB S 0F6 4.5-2M	OP-SX	9950	76	130	11802	70
ITALO 2 UB S 0F6 4.7-1M	OP-DX	6530	52	125	7470	47
ITALO 2 UB S 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 S 0F2H1 3.5-1M	STU-M STU-S SV S05	1750	16	109	1990	13
ITALO 2 UB S 0F2H1 3.5-2M		3430	30.5	112	3980	26
ITALO 2 UB S 0F2H1 3.5-3M		5140	44	116	5970	39
ITALO 2 UB S 0F2H1 3.5-4M		6650	57	116	7960	52
ITALO 2 UB S 0F2H1 3.5-5M		8770	72	121	9950	65
ITALO 2 UB S 0F2H1 3.5-6M		10330	85	121	11940	78
ITALO 2 UB S 0F2H1 3.5-7M		12020	99	121	13930	91
ITALO 2 UB S 0F2H1 3.5-8M		13720	113	121	15920	104
ITALO 2 UB S 0F2H1 3.5-9M		15720	128	122	17910	117
ITALO 2 UB S 0F2H1 3.7-1M	STU-M STU-S SV S05	2250	21.5	104	2520	18
ITALO 2 UB S 0F2H1 3.7-2M		4390	40	109	5040	36
ITALO 2 UB S 0F2H1 3.7-3M		6540	58	112	7560	54
ITALO 2 UB S 0F2H1 3.7-4M		8360	76	110	10080	72
ITALO 2 UB S 0F2H1 3.7-5M		11060	95	116	12600	90
ITALO 2 UB S 0F2H1 3.7-6M		13090	114	114	15120	108
ITALO 2 UB S 0F2H1 3.7-7M		15150	132	114	17640	126
ITALO 2 UB S 0F2H1 3.7-8M		17280	151	114	20160	144
ITALO 2 UB S 0F3 3.5-1M	STE-M STE-S STW	2430	21.5	113	2701	17
ITALO 2 UB S 0F3 3.5-2M		4800	39	123	5402	34
ITALO 2 UB S 0F3 3.5-3M		6970	57	122	8103	51
ITALO 2 UB S 0F3 3.5-4M		9250	76	121	10804	68
ITALO 2 UB S 0F3 3.5-5M		11830	95	124	13505	85
ITALO 2 UB S 0F3 3.5-6M		14110	112	125	16206	102
ITALO 2 UB S 0F3 3.5-7M		16360	131	124	18907	119
ITALO 2 UB S 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 S 0F3 3.7-1M	STE-M STE-S STW	3040	28	108	3420	24
ITALO 2 UB S 0F3 3.7-2M		6070	52	116	6840	48
ITALO 2 UB S 0F3 3.7-3M		8760	76	115	10260	72
ITALO 2 UB S 0F3 3.7-4M		11670	102	114	13680	96
ITALO 2 UB S 0F3 3.7-5M		14830	127	116	17100	120
ITALO 2 UB S 0F3 3.7-6M		17710	150	118	20520	144
ITALO 2 UB S 0F2H1 3.5-2M	S	3430	30.5	112	3980	26
ITALO 2 UB S 0F2H1 3.5-4M		6650	57	116	7960	52
ITALO 2 UB S 0F2H1 3.5-6M		10330	85	121	11940	78
ITALO 2 UB S 0F2H1 3.7-2M	S	4390	40	109	5040	36
ITALO 2 UB S 0F2H1 3.7-4M		8360	76	110	10080	72
ITALO 2 UB S 0F2H1 3.7-6M		13090	114	114	15120	108
ITALO 2 UB S 0F6 3.5-1M	OP-DX	4800	39	123	5190	35
ITALO 2 UB S 0F6 3.5-2M	OP-SX	9250	76	121	10380	70
ITALO 2 UB S 0F6 3.7-1M	OP-DX	6070	52	116	6570	47
ITALO 2 UB S 0F6 3.7-2M	OP-SX	11670	102	114	13140	94

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

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