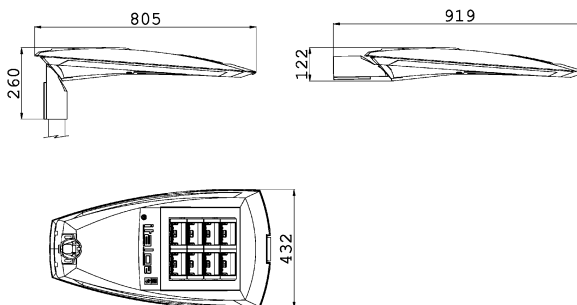




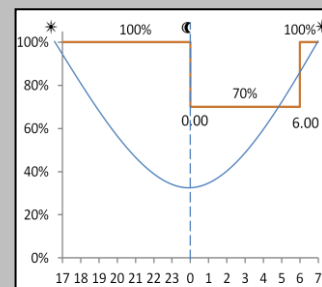
ITALO 2

MAIN CHARACTERISTICS

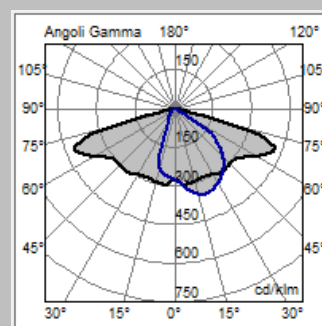
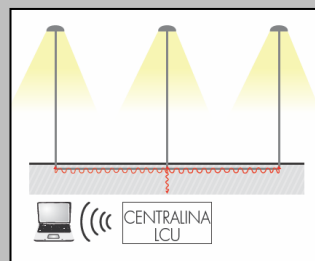
Applications	Street lighting.
Optic	STE-M/S: Asymmetrical optic for suburban street lighting. STU-M/S: Asymmetrical optic for street, urban and cycle-path lighting. STW: Asymmetrical optic for wide urban and suburban road lighting, specific for wet asphalts. SV: Asymmetrical optic for narrow urban streets 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&weight	See the drawing – 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)
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)
LED current	525mA, 700mA
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	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)	≥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



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 2 0F2H1 4.5-4M	S05 STU-M STU-S SV	7150	57	125	8736	52
ITALO 2 0F2H1 4.5-5M	S05 STU-M STU-S SV	9430	72	130	10920	65
ITALO 2 0F2H1 4.5-6M	S05 STU-M STU-S SV	11110	85	130	13104	78
ITALO 2 0F2H1 4.5-7M	S05 STU-M STU-S SV	12920	99	130	15288	91
ITALO 2 0F2H1 4.5-8M	S05 STU-M STU-S SV	14750	113	130	17472	104
ITALO 2 0F2H1 4.7-4M	S05 STU-M STU-S SV	8990	76	118	11060	72
ITALO 2 0F2H1 4.7-5M	S05 STU-M STU-S SV	11890	95	125	13825	90
ITALO 2 0F2H1 4.7-6M	S05 STU-M STU-S SV	14070	114	123	16590	108

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 4.7-7M	S05 STU-M STU-S SV	16290	132	123	19355	126
ITALO 2 0F2H1 4.7-8M	S05 STU-M STU-S SV	18580	151	123	22120	144
ITALO 2 0F3 4.5-4M	STE-M STE-S STW	9950	76	130	11800	72
ITALO 2 0F3 4.5-5M	STE-M STE-S STW	12720	95	133	14750	90
ITALO 2 0F3 4.5-6M	STE-M STE-S STW	15170	112	135	17700	108
ITALO 2 0F3 4.5-7M	STE-M STE-S STW	17590	131	134	20650	126
ITALO 2 0F3 4.5-8M	STE-M STE-S STW	20030	150	133	23600	144
ITALO 2 0F3 4.7-4M	STE-M STE-S STW	12550	102	123	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 2 0F3 4.7-5M	STE-M STE-S STW	15950	127	125	18675	120
ITALO 2 0F3 4.7-6M	STE-M STE-S STW	19040	150	126	22410	144
ITALO 2 0F3 4.7-7M	STE-M STE-S STW	22130	175	126	26145	168
ITALO 2 0F3 4.7-8M	STE-M STE-S STW	25180	201	125	29880	192
ITALO 2 0F2 4.5-4M	STA STA1	6020	51	118	7868	48
ITALO 2 0F2 4.5-5M	STA STA1	8120	64	126	9835	60
ITALO 2 0F2 4.5-6M	STA STA1	9540	76	125	11802	72
ITALO 2 0F2 4.5-7M	STA STA1	11090	88	126	13769	84
ITALO 2 0F2 4.5-8M	STA STA1	12680	100	126	15736	96
ITALO 2 0F2 4.7-4M	STA STA1	7570	68	111	9960	64
ITALO 2 0F2 4.7-5M	STA STA1	10240	85	120	12450	80

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 0F2 4.7-6M	STA STA1	12090	101	119	14940	96
ITALO 2 0F2 4.7-7M	STA STA1	13990	117	119	17430	112
ITALO 2 0F2 4.7-8M	STA STA1	15960	134	119	19920	128
ITALO 2 0F6 4.5-2M	OP-DX OP-SX	9950	76	130	10428	70
ITALO 2 0F6 4.5-3M	OP-DX OP-SX	15170	112	135	15642	105
ITALO 2 0F6 4.5-4M	OP-DX OP-SX	20030	150	133	20856	140
ITALO 2 0F6 4.7-2M	OP-DX OP-SX	12550	102	123	13200	94
ITALO 2 0F6 4.7-3M	OP-DX OP-SX	19040	150	126	19800	141

*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 2 0F2H1 3.5-4M	S05 STU-M STU-S SV	6650	57	117	8124	52
ITALO 2 0F2H1 3.5-5M	S05 STU-M STU-S SV	8770	72	122	10156	65
ITALO 2 0F2H1 3.5-6M	S05 STU-M STU-S SV	10330	85	122	12187	78
ITALO 2 0F2H1 3.5-7M	S05 STU-M STU-S SV	12020	99	121	14218	91
ITALO 2 0F2H1 3.5-8M	S05 STU-M STU-S SV	13720	113	121	16249	104
ITALO 2 0F2H1 3.7-4M	S05 STU-M STU-S SV	8360	76	110	10286	72
ITALO 2 0F2H1 3.7-5M	S05 STU-M STU-S SV	11060	95	116	12857	90
ITALO 2 0F2H1 3.7-6M	S05 STU-M STU-S SV	13090	114	115	15429	108

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 3.7-7M	S05 STU-M STU-S SV	15150	132	115	18000	126
ITALO 2 0F2H1 3.7-8M	S05 STU-M STU-S SV	17280	151	114	20572	144
ITALO 2 0F3 3.5-4M	STE-M STE-S STW	9250	76	122	10974	72
ITALO 2 0F3 3.5-5M	STE-M STE-S STW	11830	95	125	13718	90
ITALO 2 0F3 3.5-6M	STE-M STE-S STW	14110	112	126	16461	108
ITALO 2 0F3 3.5-7M	STE-M STE-S STW	16360	131	125	19205	126
ITALO 2 0F3 3.5-8M	STE-M STE-S STW	18630	150	124	21948	144
ITALO 2 0F3 3.7-4M	STE-M STE-S STW	11670	102	114	13894	96

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 0F3 3.7-5M	STE-M STE-S STW	14830	127	117	17368	120
ITALO 2 0F3 3.7-6M	STE-M STE-S STW	17710	150	118	20841	144
ITALO 2 0F3 3.7-7M	STE-M STE-S STW	20580	175	118	24315	168
ITALO 2 0F3 3.7-8M	STE-M STE-S STW	23420	201	117	27788	192
ITALO 2 0F2 3.5-4M	STA STA1	5600	51	110	7317	48
ITALO 2 0F2 3.5-5M	STA STA1	7550	64	118	9147	60
ITALO 2 0F2 3.5-6M	STA STA1	8870	76	117	10976	72
ITALO 2 0F2 3.5-7M	STA STA1	10310	88	117	12805	84
ITALO 2 0F2 3.5-8M	STA STA1	11790	100	118	14634	96
ITALO 2 0F2 3.7-4M	STA STA1	7040	68	104	9263	64
ITALO 2 0F2 3.7-5M	STA STA1	9520	85	112	11579	80

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 0F2 3.7-6M	STA STA1	11240	101	111	13894	96
ITALO 2 0F2 3.7-7M	STA STA1	13010	117	111	16210	112
ITALO 2 0F2 3.7-8M	STA STA1	14840	134	111	18526	128
ITALO 2 0F6 3.5-2M	OP-DX OP-SX	9250	76	122	9698	70
ITALO 2 0F6 3.5-3M	OP-DX OP-SX	14110	112	126	14547	105
ITALO 2 0F6 3.5-4M	OP-DX OP-SX	18630	150	124	19396	140
ITALO 2 0F6 3.7-2M	OP-DX OP-SX	11670	102	114	12276	94
ITALO 2 0F6 3.7-3M	OP-DX OP-SX	17710	150	118	18414	141

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

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

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