



ITALO 2 X

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: Asymmetrical optic for very narrow urban streets or highway entrance/exit turns. S05/S07: Asymmetrical optic for street, urban and green areas lighting. STA: Asymmetrical optic for wide urban road and cycle-path lighting. Colour temperature: 4000K, 3000K (others in option) CRI ≥ 70 LOR= 100%, DLOR= 100%, ULOR= 0% Photobiological safety class: EXEMPT GROUP LED source efficiency: 185 lm/W @ 140mA, Tj=85°C, 4000K</p>
Insulation class	II, I
Protection degree	IP66 IK09 total
Dimensions	See the drawing
Weight	max. 12,5kg
Exposed surface	Side: 0.08m ² – Top: 0.30m 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 - F, DA, DAC)
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)	>100.000hr L90B10 >100.000hr L90, TM-21

MATERIALS

Fixing	Die-cast aluminum UNI EN1706 powder painted.
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, 5mm thickness high transparency.
Cable gland	Plastic M20x1.5 - IP68
Gasket	Polyurethane
Colour	Semi-gloss satin grey - Cod. 2B



LUMINAIRE	OPTIC	LED CURRENT (mA)	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 X 5P5 4.060-5M	STE-M STU-M STA SV	60	8700	53.4	162.9	9234	47
ITALO 2 X 5P5 4.060-6M			10430	63.9	163.2	11081	56.4
ITALO 2 X 5P5 4.060-7M			12220	74.4	164.2	12928	65.8
ITALO 2 X 5P5 4.060-8M			13980	86.5	161.6	14775	75.2
ITALO 2 X 5P5 4.100-5M		100	14060	88.6	158.6	15115	79.8
ITALO 2 X 5P5 4.100-6M			16850	106	158.9	18138	95.7
ITALO 2 X 5P5 4.100-7M			19640	125	157.1	21161	112
ITALO 2 X 5P5 4.100-8M			22380	142	157.6	24184	128
ITALO 2 X 5P5 4.140-5M		140	19050	125	152.4	20748	113
ITALO 2 X 5P5 4.140-6M			22780	150	151.8	24897	136
ITALO 2 X 5P5 4.140-7M			26380	177	149	29047	159
ITALO 2 X 5P5 4.140-8M			29910	200	149.5	33197	181
ITALO 2 X 5P5 4.160-5M		160	21420	144	148.7	23471	130
ITALO 2 X 5P5 4.160-6M			25580	173	147.8	28165	157
ITALO 2 X 5P5 4.160-7M			29560	204	144.9	32860	183
ITALO 2 X 5P5 4.160-8M			33470	231	144.8	37554	209
ITALO 2 X 5P5 4.060-5M	S05 S07 STE-S STU-S	60	8500	53.4	159.1	9234	47
ITALO 2 X 5P5 4.060-6M			10190	63.9	159.4	11081	56.4
ITALO 2 X 5P5 4.060-7M			11940	74.4	160.4	12928	65.8
ITALO 2 X 5P5 4.060-8M			13670	86.5	158	14775	75.2
ITALO 2 X 5P5 4.100-5M		100	13740	88.6	155	15115	79.8
ITALO 2 X 5P5 4.100-6M			16470	106	155.3	18138	95.7
ITALO 2 X 5P5 4.100-7M			19200	125	153.6	21161	112
ITALO 2 X 5P5 4.100-8M			21890	142	154.1	24184	128
ITALO 2 X 5P5 4.140-5M		140	18630	125	149	20748	113
ITALO 2 X 5P5 4.140-6M			22270	150	148.4	24897	136
ITALO 2 X 5P5 4.140-7M			25790	177	145.7	29047	159
ITALO 2 X 5P5 4.140-8M			29250	200	146.2	33197	181

LUMINAIRE	OPTIC	LED CURRENT (mA)	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 X 5P5 4.160-5M	S05 S07 STE-S STU-S	160	20950	144	145.4	23471	130
ITALO 2 X 5P5 4.160-6M			25010	173	144.5	28165	157
ITALO 2 X 5P5 4.160-7M			28900	204	141.6	32860	183
ITALO 2 X 5P5 4.160-8M			32730	231	141.6	37554	209
ITALO 2 X 5P5 4.060-5M	STW	60	8890	53.4	166.4	9234	47
ITALO 2 X 5P5 4.060-6M			10660	63.9	166.8	11081	56.4
ITALO 2 X 5P5 4.060-7M			12480	74.4	167.7	12928	65.8
ITALO 2 X 5P5 4.060-8M			14290	86.5	165.2	14775	75.2
ITALO 2 X 5P5 4.100-5M		100	14370	88.6	162.1	15115	79.8
ITALO 2 X 5P5 4.100-6M			17220	106	162.4	18138	95.7
ITALO 2 X 5P5 4.100-7M			20070	125	160.5	21161	112
ITALO 2 X 5P5 4.100-8M			22880	142	161.1	24184	128
ITALO 2 X 5P5 4.140-5M	140	19470	125	155.7	20748	113	
ITALO 2 X 5P5 4.140-6M		23280	150	155.2	24897	136	
ITALO 2 X 5P5 4.140-7M		26960	177	152.3	29047	159	
ITALO 2 X 5P5 4.140-8M		30580	200	152.9	33197	181	
ITALO 2 X 5P5 4.160-5M	160	21900	144	152	23471	130	
ITALO 2 X 5P5 4.160-6M		26140	173	151	28165	157	
ITALO 2 X 5P5 4.160-7M		30210	204	148	32860	183	
ITALO 2 X 5P5 4.160-8M		34210	231	148	37554	209	

*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: $\pm 7\%$.

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	LED CURRENT (mA)	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 X 5P5 3.060-5M	STE-M STU-M STA SV	60	8180	53.4	153.1	8680	47
ITALO 2 X 5P5 3.060-6M			9800	63.9	153.3	10416	56.4
ITALO 2 X 5P5 3.060-7M			11480	74.4	154.3	12152	65.8
ITALO 2 X 5P5 3.060-8M			13140	86.5	151.9	13888	75.2
ITALO 2 X 5P5 3.100-5M		100	13220	88.6	149.2	14208	79.8
ITALO 2 X 5P5 3.100-6M			15840	106	149.4	17050	95.7
ITALO 2 X 5P5 3.100-7M			18460	125	147.6	19891	112
ITALO 2 X 5P5 3.100-8M			21040	142	148.1	22733	128
ITALO 2 X 5P5 3.140-5M		140	17910	125	143.2	19503	113
ITALO 2 X 5P5 3.140-6M			21410	150	142.7	23404	136
ITALO 2 X 5P5 3.140-7M			24800	177	140.1	27304	159
ITALO 2 X 5P5 3.140-8M			28120	200	140.6	31205	181
ITALO 2 X 5P5 3.160-5M		160	20140	144	139.8	22063	130
ITALO 2 X 5P5 3.160-6M			24040	173	138.9	26476	157
ITALO 2 X 5P5 3.160-7M			27790	204	136.2	30888	183
ITALO 2 X 5P5 3.160-8M			31460	231	136.1	35301	209
ITALO 2 X 5P5 3.060-5M	S05 S07 STE-S STU-S	60	7990	53.4	149.6	8680	47
ITALO 2 X 5P5 3.060-6M			9580	63.9	149.9	10416	56.4
ITALO 2 X 5P5 3.060-7M			11220	74.4	150.8	12152	65.8
ITALO 2 X 5P5 3.060-8M			12850	86.5	148.5	13888	75.2
ITALO 2 X 5P5 3.100-5M		100	12920	88.6	145.8	14208	79.8
ITALO 2 X 5P5 3.100-6M			15480	106	146	17050	95.7
ITALO 2 X 5P5 3.100-7M			18050	125	144.4	19891	112
ITALO 2 X 5P5 3.100-8M			20580	142	144.9	22733	128
ITALO 2 X 5P5 3.140-5M		140	17510	125	140	19503	113
ITALO 2 X 5P5 3.140-6M			20930	150	139.5	23404	136
ITALO 2 X 5P5 3.140-7M			24240	177	136.9	27304	159
ITALO 2 X 5P5 3.140-8M			27500	200	137.5	31205	181

LUMINAIRE	OPTIC	LED CURRENT (mA)	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 X 5P5 3.160-5M	S05 S07 STE-S STU-S	160	19690	144	136.7	22063	130
ITALO 2 X 5P5 3.160-6M			23510	173	135.8	26476	157
ITALO 2 X 5P5 3.160-7M			27170	204	133.1	30888	183
ITALO 2 X 5P5 3.160-8M			30760	231	133.1	35301	209
ITALO 2 X 5P5 3.060-5M	STW	60	8360	53.4	156.5	8680	47
ITALO 2 X 5P5 3.060-6M			10020	63.9	156.8	10416	56.4
ITALO 2 X 5P5 3.060-7M			11730	74.4	157.6	12152	65.8
ITALO 2 X 5P5 3.060-8M			13430	86.5	155.2	13888	75.2
ITALO 2 X 5P5 3.100-5M		100	13510	88.6	152.4	14208	79.8
ITALO 2 X 5P5 3.100-6M			16190	106	152.7	17050	95.7
ITALO 2 X 5P5 3.100-7M			18870	125	150.9	19891	112
ITALO 2 X 5P5 3.100-8M			21510	142	151.4	22733	128
ITALO 2 X 5P5 3.140-5M	140	18300	125	146.4	19503	113	
ITALO 2 X 5P5 3.140-6M		21880	150	145.8	23404	136	
ITALO 2 X 5P5 3.140-7M		25340	177	143.1	27304	159	
ITALO 2 X 5P5 3.140-8M		28750	200	143.7	31205	181	
ITALO 2 X 5P5 3.160-5M	160	20580	144	142.9	22063	130	
ITALO 2 X 5P5 3.160-6M		24570	173	142	26476	157	
ITALO 2 X 5P5 3.160-7M		28400	204	139.2	30888	183	
ITALO 2 X 5P5 3.160-8M		32160	231	139.2	35301	209	

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