



ITALO 2

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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 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, 2700K, 2200K(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
Insulation class	II, I
Protection degree	IP66/IP67 IK09 total
Dimensions	See the drawing
Weight	max. 12,5kg
Exposed surface	Side: 0.067m ² – Top: 0.32m ² SCx: 0.067 m ²
Mounting	Bracket: Ø33mm ÷ Ø60mm Ø60mm ÷ Ø76mm(optional) Post-top: Ø42mm ÷ Ø60mm Ø60mm ÷ Ø76mm(optional)
Tilt Angle	Post-top: -10°/+25° (step di 5°) Bracket: -25°/+10° (step di 5°)
LED Modules	Removable / Replaceable.
Gear tray	Removable.
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 12kV With SPD: CL.II: 10kV / 10kV CM/DM CL.I: 12kV / 10kV CM/DM Without SPD: CL.II: 10kV / 6kV CM/DM CL.I: 10kV / 6kV CM/DM
SPD (optional)	12kV-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. 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	Graphite - Cod. 01



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 5P5 7040.060-5M	STE-M STU-M STW SV	60	8960	53.4	167.7	9234	47
ITALO 2 5P5 7040.060-6M			10750	63.9	168.2	11081	56.4
ITALO 2 5P5 7040.060-7M			12590	74.4	169.2	12928	65.8
ITALO 2 5P5 7040.060-8M			14390	86.5	166.3	14775	75.2
ITALO 2 5P5 7040.100-5M		100	14480	88.6	163.4	15115	79.8
ITALO 2 5P5 7040.100-6M			17360	106	163.7	18138	95.7
ITALO 2 5P5 7040.100-7M			20230	125	161.8	21161	112
ITALO 2 5P5 7040.100-8M			23050	142	162.3	24184	128
ITALO 2 5P5 7040.140-5M		140	19620	125	156.9	20748	113
ITALO 2 5P5 7040.140-6M			23460	150	156.4	24897	136
ITALO 2 5P5 7040.140-7M			27170	177	153.5	29047	159
ITALO 2 5P5 7040.140-8M			30810	200	154	33197	181
ITALO 2 5P5 7040.160-5M		160	22060	144	153.1	23471	130
ITALO 2 5P5 7040.160-6M			26340	173	152.2	28165	157
ITALO 2 5P5 7040.160-7M			30450	204	149.2	32860	183
ITALO 2 5P5 7040.160-8M			34470	231	149.2	37554	209
ITALO 2 5P5 7040.060-5M	S05 S07 STA STE-S STU-S	60	8750	53.4	163.8	9234	47
ITALO 2 5P5 7040.060-6M			10500	63.9	164.3	11081	56.4
ITALO 2 5P5 7040.060-7M			12300	74.4	165.3	12928	65.8
ITALO 2 5P5 7040.060-8M			14080	86.5	162.7	14775	75.2
ITALO 2 5P5 7040.100-5M		100	14150	88.6	159.7	15115	79.8
ITALO 2 5P5 7040.100-6M			16960	106	160	18138	95.7
ITALO 2 5P5 7040.100-7M			19780	125	158.2	21161	112
ITALO 2 5P5 7040.100-8M			22550	142	158.8	24184	128
ITALO 2 5P5 7040.140-5M		140	19190	125	153.5	20748	113
ITALO 2 5P5 7040.140-6M			22940	150	152.9	24897	136
ITALO 2 5P5 7040.140-7M			26560	177	150	29047	159
ITALO 2 5P5 7040.140-8M			30130	200	150.6	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 5P5 7040.160-5M		160	21580	144	149.8	23471	130
ITALO 2 5P5 7040.160-6M			25760	173	148.9	28165	157
ITALO 2 5P5 7040.160-7M			29760	204	145.8	32860	183
ITALO 2 5P5 7040.160-8M			33710	231	145.9	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 5P5 7030.060-5M	STE-M STU-M STW SV	60	8420	53.4	157.6	8680	47
ITALO 2 5P5 7030.060-6M			10100	63.9	158	10416	56.4
ITALO 2 5P5 7030.060-7M			11830	74.4	159	12152	65.8
ITALO 2 5P5 7030.060-8M			13530	86.5	156.4	13888	75.2
ITALO 2 5P5 7030.100-5M		100	13610	88.6	153.6	14208	79.8
ITALO 2 5P5 7030.100-6M			16320	106	153.9	17050	95.7
ITALO 2 5P5 7030.100-7M			19020	125	152.1	19891	112
ITALO 2 5P5 7030.100-8M			21670	142	152.6	22733	128
ITALO 2 5P5 7030.140-5M		140	18440	125	147.5	19503	113
ITALO 2 5P5 7030.140-6M			22050	150	147	23404	136
ITALO 2 5P5 7030.140-7M			25540	177	144.2	27304	159
ITALO 2 5P5 7030.140-8M			28960	200	144.8	31205	181
ITALO 2 5P5 7030.160-5M		160	20740	144	144	22063	130
ITALO 2 5P5 7030.160-6M			24760	173	143.1	26476	157
ITALO 2 5P5 7030.160-7M			28620	204	140.2	30888	183
ITALO 2 5P5 7030.160-8M			32410	231	140.3	35301	209
ITALO 2 5P5 7030.060-5M	S05 S07 STA STE-S STU-S	60	8220	53.4	153.9	8680	47
ITALO 2 5P5 7030.060-6M			9870	63.9	154.4	10416	56.4
ITALO 2 5P5 7030.060-7M			11570	74.4	155.5	12152	65.8
ITALO 2 5P5 7030.060-8M			13240	86.5	153	13888	75.2
ITALO 2 5P5 7030.100-5M		100	13300	88.6	150.1	14208	79.8
ITALO 2 5P5 7030.100-6M			15940	106	150.3	17050	95.7
ITALO 2 5P5 7030.100-7M			18590	125	148.7	19891	112
ITALO 2 5P5 7030.100-8M			21200	142	149.2	22733	128
ITALO 2 5P5 7030.140-5M		140	18040	125	144.3	19503	113
ITALO 2 5P5 7030.140-6M			21560	150	143.7	23404	136
ITALO 2 5P5 7030.140-7M			24970	177	141	27304	159
ITALO 2 5P5 7030.140-8M			28320	200	141.6	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 5P5 7030.160-5M		160	20290	144	140.9	22063	130
ITALO 2 5P5 7030.160-6M			24220	173	140	26476	157
ITALO 2 5P5 7030.160-7M			27980	204	137.1	30888	183
ITALO 2 5P5 7030.160-8M			31690	231	137.1	35301	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, 2700K, 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, 2700K, lm)	RATED LED POWER* (Tj=85°C, W)
ITALO 2 5P5 7027.060-5M	STE-M STU-M STW SV	60	8060	53.4	150.9	8311	47
ITALO 2 5P5 7027.060-6M			9670	63.9	151.3	9973	56.4
ITALO 2 5P5 7027.060-7M			11330	74.4	152.2	11635	65.8
ITALO 2 5P5 7027.060-8M			12950	86.5	149.7	13297	75.2
ITALO 2 5P5 7027.100-5M		100	13030	88.6	147	13604	79.8
ITALO 2 5P5 7027.100-6M			15620	106	147.3	16324	95.7
ITALO 2 5P5 7027.100-7M			18210	125	145.6	19045	112
ITALO 2 5P5 7027.100-8M			20750	142	146.1	21766	128
ITALO 2 5P5 7027.140-5M		140	17660	125	141.2	18673	113
ITALO 2 5P5 7027.140-6M			21110	150	140.7	22408	136
ITALO 2 5P5 7027.140-7M			24450	177	138.1	26142	159
ITALO 2 5P5 7027.140-8M			27730	200	138.6	29877	181
ITALO 2 5P5 7027.160-5M		160	19860	144	137.9	21124	130
ITALO 2 5P5 7027.160-6M			23710	173	137	25349	157
ITALO 2 5P5 7027.160-7M			27400	204	134.3	29574	183
ITALO 2 5P5 7027.160-8M			31030	231	134.3	33799	209
ITALO 2 5P5 7027.060-5M	S05 S07 STA STE-S STU-S	60	7870	53.4	147.3	8311	47
ITALO 2 5P5 7027.060-6M			9450	63.9	147.8	9973	56.4
ITALO 2 5P5 7027.060-7M			11070	74.4	148.7	11635	65.8
ITALO 2 5P5 7027.060-8M			12670	86.5	146.4	13297	75.2
ITALO 2 5P5 7027.100-5M		100	12740	88.6	143.7	13604	79.8
ITALO 2 5P5 7027.100-6M			15260	106	143.9	16324	95.7
ITALO 2 5P5 7027.100-7M			17800	125	142.4	19045	112
ITALO 2 5P5 7027.100-8M			20300	142	142.9	21766	128
ITALO 2 5P5 7027.140-5M		140	17270	125	138.1	18673	113
ITALO 2 5P5 7027.140-6M			20650	150	137.6	22408	136
ITALO 2 5P5 7027.140-7M			23900	177	135	26142	159
ITALO 2 5P5 7027.140-8M			27120	200	135.6	29877	181

LUMINAIRE	OPTIC	LED CURRENT (mA)	RATED LUMINAIRE FLUX* (Tq=25°C, 2700K, 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, 2700K, lm)	RATED LED POWER* (Tj=85°C, W)
ITALO 2 5P5 7027.160-5M		160	19420	144	134.8	21124	130
ITALO 2 5P5 7027.160-6M			23180	173	133.9	25349	157
ITALO 2 5P5 7027.160-7M			26790	204	131.3	29574	183
ITALO 2 5P5 7027.160-8M			30340	231	131.3	33799	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.

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Power tolerance with ZHAGA version or power supply D4i/SR: $\pm 10\%$.

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LUMINAIRE	OPTIC	LED CURRENT (mA)	RATED LUMINAIRE FLUX* (Tq=25°C, 2200K, 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, 2200K, lm)	RATED LED POWER* (Tj=85°C, W)
ITALO 2 5P5 7022.060-5M	STE-M STU-M STW SV	60	7260	53.4	135.9	7480	47
ITALO 2 5P5 7022.060-6M			8710	63.9	136.3	8976	56.4
ITALO 2 5P5 7022.060-7M			10190	74.4	136.9	10472	65.8
ITALO 2 5P5 7022.060-8M			11660	86.5	134.7	11968	75.2
ITALO 2 5P5 7022.100-5M		100	11730	88.6	132.3	12243	79.8
ITALO 2 5P5 7022.100-6M			14060	106	132.6	14692	95.7
ITALO 2 5P5 7022.100-7M			16390	125	131.1	17140	112
ITALO 2 5P5 7022.100-8M			18670	142	131.4	19589	128
ITALO 2 5P5 7022.140-5M		140	15890	125	127.1	16806	113
ITALO 2 5P5 7022.140-6M			19000	150	126.6	20167	136
ITALO 2 5P5 7022.140-7M			22010	177	124.3	23528	159
ITALO 2 5P5 7022.140-8M			24960	200	124.8	26889	181
ITALO 2 5P5 7022.160-5M		160	17870	144	124	19012	130
ITALO 2 5P5 7022.160-6M			21330	173	123.2	22814	157
ITALO 2 5P5 7022.160-7M			24660	204	120.8	26616	183
ITALO 2 5P5 7022.160-8M			27920	231	120.8	30419	209
ITALO 2 5P5 7022.060-5M	S05 S07 STA STE-S STU-S	60	7080	53.4	132.5	7480	47
ITALO 2 5P5 7022.060-6M			8500	63.9	133	8976	56.4
ITALO 2 5P5 7022.060-7M			9970	74.4	134	10472	65.8
ITALO 2 5P5 7022.060-8M			11410	86.5	131.9	11968	75.2
ITALO 2 5P5 7022.100-5M		100	11460	88.6	129.3	12243	79.8
ITALO 2 5P5 7022.100-6M			13740	106	129.6	14692	95.7
ITALO 2 5P5 7022.100-7M			16020	125	128.1	17140	112
ITALO 2 5P5 7022.100-8M			18270	142	128.6	19589	128
ITALO 2 5P5 7022.140-5M		140	15540	125	124.3	16806	113
ITALO 2 5P5 7022.140-6M			18580	150	123.8	20167	136
ITALO 2 5P5 7022.140-7M			21510	177	121.5	23528	159
ITALO 2 5P5 7022.140-8M			24410	200	122	26889	181

LUMINAIRE	OPTIC	LED CURRENT (mA)	RATED LUMINAIRE FLUX* (Tq=25°C, 2200K, 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, 2200K, lm)	RATED LED POWER* (Tj=85°C, W)
ITALO 2 5P5 7022.160-5M		160	17480	144	121.3	19012	130
ITALO 2 5P5 7022.160-6M			20870	173	120.6	22814	157
ITALO 2 5P5 7022.160-7M			24110	204	118.1	26616	183
ITALO 2 5P5 7022.160-8M			27300	231	118.1	30419	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: $\pm 10\%$.

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