



ITALO 3 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 20kg
Exposed surface	Side: 0.10m ² – Top: 0.40m ² SCx: 0.07m ²
Mounting	Bracket or Post-top Ø60mm ÷ Ø76mm
Tilt Angle	Post-top: 0°, +5°, +10°, +15°, +20° Bracket: 0°, -5°, -10°, -15°, -20°
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)	<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>
Optical unit lifetime (Tq=25°C)	<p>>100.000hr L90B10 >100.000hr L90, TM-21</p>

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 3 X 5P5 4.060-9M	STE-M STU-M STA SV	60	15610	95.9	162.7	16622	84.6
ITALO 3 X 5P5 4.060-10M			17350	107	162.1	18468	94
ITALO 3 X 5P5 4.060-11M			19070	120	158.9	20315	103
ITALO 3 X 5P5 4.060-12M			20790	131	158.7	22162	113
ITALO 3 X 5P5 4.060-13M			22570	142	158.9	24009	122
ITALO 3 X 5P5 4.060-14M			24280	149	162.9	25856	132
ITALO 3 X 5P5 4.060-15M		25880	160	161.7	27703	141	
ITALO 3 X 5P5 4.100-9M		100	25340	160	158.3	27207	144
ITALO 3 X 5P5 4.100-10M			28140	178	158	30230	160
ITALO 3 X 5P5 4.100-11M			30920	199	155.3	33253	176
ITALO 3 X 5P5 4.100-12M			33670	217	155.1	36276	191
ITALO 3 X 5P5 4.100-13M			36440	236	154.4	39299	207
ITALO 3 X 5P5 4.100-14M			39140	250	156.5	42322	223
ITALO 3 X 5P5 4.100-15M		41680	268	155.5	45345	239	
ITALO 3 X 5P5 4.140-9M		140	34420	229	150.3	37346	204
ITALO 3 X 5P5 4.140-10M			38100	254	150	41496	227
ITALO 3 X 5P5 4.140-11M			41830	281	148.8	45645	249
ITALO 3 X 5P5 4.140-12M			45470	306	148.5	49795	272
ITALO 3 X 5P5 4.060-9M	S05 S07 STE-S STU-S	60	15270	95.9	159.2	16622	84.6
ITALO 3 X 5P5 4.060-10M			16960	107	158.5	18468	94
ITALO 3 X 5P5 4.060-11M			18640	120	155.3	20315	103
ITALO 3 X 5P5 4.060-12M			20330	131	155.1	22162	113
ITALO 3 X 5P5 4.060-13M			22070	142	155.4	24009	122
ITALO 3 X 5P5 4.060-14M			23740	149	159.3	25856	132
ITALO 3 X 5P5 4.060-15M			25310	160	158.1	27703	141

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 3 X 5P5 4.100-9M	S05 S07 STE-S STU-S	100	24780	160	154.8	27207	144		
ITALO 3 X 5P5 4.100-10M			27510	178	154.5	30230	160		
ITALO 3 X 5P5 4.100-11M			30230	199	151.9	33253	176		
ITALO 3 X 5P5 4.100-12M			32920	217	151.7	36276	191		
ITALO 3 X 5P5 4.100-13M			35630	236	150.9	39299	207		
ITALO 3 X 5P5 4.100-14M			38270	250	153	42322	223		
ITALO 3 X 5P5 4.100-15M			40750	268	152	45345	239		
ITALO 3 X 5P5 4.140-9M			140	33650	229	146.9	37346	204	
ITALO 3 X 5P5 4.140-10M				37250	254	146.6	41496	227	
ITALO 3 X 5P5 4.140-11M				40900	281	145.5	45645	249	
ITALO 3 X 5P5 4.140-12M				44450	306	145.2	49795	272	
ITALO 3 X 5P5 4.060-9M			STW	60	15960	95.9	166.4	16622	84.6
ITALO 3 X 5P5 4.060-10M					17720	107	165.6	18468	94
ITALO 3 X 5P5 4.060-11M					19490	120	162.4	20315	103
ITALO 3 X 5P5 4.060-12M					21250	131	162.2	22162	113
ITALO 3 X 5P5 4.060-13M	23080	142			162.5	24009	122		
ITALO 3 X 5P5 4.060-14M	24820	149			166.5	25856	132		
ITALO 3 X 5P5 4.060-15M	26470	160			165.4	27703	141		
ITALO 3 X 5P5 4.100-9M	100	25910			160	161.9	27207	144	
ITALO 3 X 5P5 4.100-10M		28760			178	161.5	30230	160	
ITALO 3 X 5P5 4.100-11M		31610			199	158.8	33253	176	
ITALO 3 X 5P5 4.100-12M		34420	217	158.6	36276	191			
ITALO 3 X 5P5 4.100-13M		37250	236	157.8	39299	207			
ITALO 3 X 5P5 4.100-14M		40010	250	160	42322	223			
ITALO 3 X 5P5 4.100-15M		42610	268	158.9	45345	239			

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 3 X 5P5 4.140-9M	STW	140	35180	229	153.6	37346	204
ITALO 3 X 5P5 4.140-10M			38950	254	153.3	41496	227
ITALO 3 X 5P5 4.140-11M			42760	281	152.1	45645	249
ITALO 3 X 5P5 4.140-12M			46480	306	151.8	49795	272

*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 3 X 5P5 3.060-9M	STE-M STU-M STA SV	60	14670	95.9	152.9	15624	84.6
ITALO 3 X 5P5 3.060-10M			16310	107	152.4	17360	94
ITALO 3 X 5P5 3.060-11M			17920	120	149.3	19096	103
ITALO 3 X 5P5 3.060-12M			19540	131	149.1	20832	113
ITALO 3 X 5P5 3.060-13M			21220	142	149.4	22568	122
ITALO 3 X 5P5 3.060-14M			22820	149	153.1	24305	132
ITALO 3 X 5P5 3.060-15M		24330	160	152	26041	141	
ITALO 3 X 5P5 3.100-9M		100	23820	160	148.8	25575	144
ITALO 3 X 5P5 3.100-10M			26450	178	148.5	28416	160
ITALO 3 X 5P5 3.100-11M			29060	199	146	31258	176
ITALO 3 X 5P5 3.100-12M			31650	217	145.8	34100	191
ITALO 3 X 5P5 3.100-13M			34250	236	145.1	36941	207
ITALO 3 X 5P5 3.100-14M			36790	250	147.1	39783	223
ITALO 3 X 5P5 3.100-15M		39180	268	146.1	42624	239	
ITALO 3 X 5P5 3.140-9M		140	32350	229	141.2	35105	204
ITALO 3 X 5P5 3.140-10M	35810		254	140.9	39006	227	
ITALO 3 X 5P5 3.140-11M	39320		281	139.9	42907	249	
ITALO 3 X 5P5 3.140-12M	42740		306	139.6	46807	272	
ITALO 3 X 5P5 3.060-9M	S05 S07 STE-S STU-S	60	14350	95.9	149.6	15624	84.6
ITALO 3 X 5P5 3.060-10M			15940	107	148.9	17360	94
ITALO 3 X 5P5 3.060-11M			17520	120	146	19096	103
ITALO 3 X 5P5 3.060-12M			19110	131	145.8	20832	113
ITALO 3 X 5P5 3.060-13M			20750	142	146.1	22568	122
ITALO 3 X 5P5 3.060-14M			22320	149	149.7	24305	132
ITALO 3 X 5P5 3.060-15M			23790	160	148.6	26041	141

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 3 X 5P5 3.100-9M	S05 S07 STE-S STU-S	100	23290	160	145.5	25575	144	
ITALO 3 X 5P5 3.100-10M			25860	178	145.2	28416	160	
ITALO 3 X 5P5 3.100-11M			28420	199	142.8	31258	176	
ITALO 3 X 5P5 3.100-12M			30940	217	142.5	34100	191	
ITALO 3 X 5P5 3.100-13M			33490	236	141.9	36941	207	
ITALO 3 X 5P5 3.100-14M			35970	250	143.8	39783	223	
ITALO 3 X 5P5 3.100-15M			38310	268	142.9	42624	239	
ITALO 3 X 5P5 3.140-9M		140	31630	229	138.1	35105	204	
ITALO 3 X 5P5 3.140-10M			35020	254	137.8	39006	227	
ITALO 3 X 5P5 3.140-11M			38450	281	136.8	42907	249	
ITALO 3 X 5P5 3.140-12M			41780	306	136.5	46807	272	
ITALO 3 X 5P5 3.060-9M		STW	60	15000	95.9	156.4	15624	84.6
ITALO 3 X 5P5 3.060-10M				16660	107	155.7	17360	94
ITALO 3 X 5P5 3.060-11M				18320	120	152.6	19096	103
ITALO 3 X 5P5 3.060-12M	19980			131	152.5	20832	113	
ITALO 3 X 5P5 3.060-13M	21690			142	152.7	22568	122	
ITALO 3 X 5P5 3.060-14M	23330			149	156.5	24305	132	
ITALO 3 X 5P5 3.060-15M	24880		160	155.5	26041	141		
ITALO 3 X 5P5 3.100-9M	100		24360	160	152.2	25575	144	
ITALO 3 X 5P5 3.100-10M			27030	178	151.8	28416	160	
ITALO 3 X 5P5 3.100-11M			29710	199	149.2	31258	176	
ITALO 3 X 5P5 3.100-12M		32350	217	149	34100	191		
ITALO 3 X 5P5 3.100-13M		35020	236	148.3	36941	207		
ITALO 3 X 5P5 3.100-14M		37610	250	150.4	39783	223		
ITALO 3 X 5P5 3.100-15M		40050	268	149.4	42624	239		

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 3 X 5P5 3.140-9M	STW	140	33070	229	144.4	35105	204
ITALO 3 X 5P5 3.140-10M			36610	254	144.1	39006	227
ITALO 3 X 5P5 3.140-11M			40190	281	143	42907	249
ITALO 3 X 5P5 3.140-12M			43690	306	142.7	46807	272

*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.