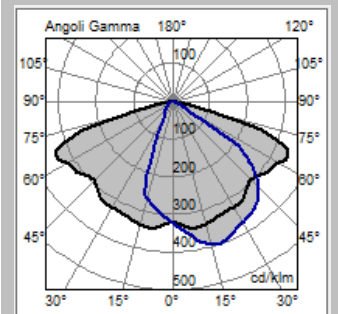
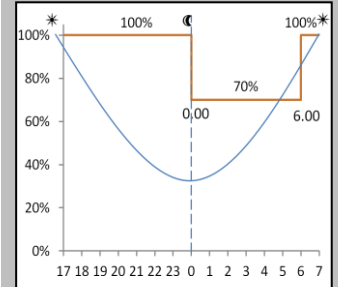


ITALO 3	
MAIN CHARACTERISTICS	
Applications	Street lighting.
Optic	STE-M/S: Asymmetrical optic for suburban street lighting. STU-M/S: Asymmetrical optic for street, urban and cycle-path lighting. STW: Asymmetrical optic for wide urban and suburban road lighting, specific for wet asphalts. SV: Asymmetrical optic for narrow urban streets or highway entrance/exit turns. 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	II, I
Protection degree	IP66 IK09 total
LED Modules	Removable / Replaceable.
Tilt Angle	Post-top: 0°, +5°, +10°, +15°, +20° Bracket: 0°, -5°, -10°, -15°, -20°
Dimensions&weight	See the drawing – 19Kg
Exposed surface	Side: 0.1m ² – Top: 0.4m ² SCx: 0.07m ²
Mounting	Bracket or Post-top Ø60mm ÷ Ø76mm
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	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. 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, 700mA)	>100.000hr L90B10 >100.000hr L90, TM-21
MATERIALS	
Fixing	Die-cast aluminum UNI EN1706 powder painted.
Heat-sink	
Lower frame	
Upper canopy	
Closure hook	
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.
Cable gland	Plastic M20x1.5 – IP68
Gasket	Polyurethane
Colour	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 3 0F2H1 4.5-9M	S05 STU-M STU-S SV	16900	128	132	19656	117
ITALO 3 0F2H1 4.5-10M		18650	143	130	21840	130
ITALO 3 0F2H1 4.5-11M		20470	157	130	24024	143
ITALO 3 0F2H1 4.5-12M		22320	172	129	26208	156
ITALO 3 0F2H1 4.5-13M		24180	187	129	28392	169
ITALO 3 0F2H1 4.5-14M		26040	200	130	30576	182
ITALO 3 0F2H1 4.5-15M		27860	213	130	32760	195
ITALO 3 0F2H1 4.7-9M	S05 STU-M STU-S SV	21440	172	124	24885	162
ITALO 3 0F2H1 4.7-10M		23730	191	124	27650	180
ITALO 3 0F2H1 4.7-11M		26070	210	124	30415	198
ITALO 3 0F2H1 4.7-12M		28420	230	123	33180	216
ITALO 3 0F2H1 4.7-13M		30750	249	123	35945	234
ITALO 3 0F2H1 4.7-14M		33010	268	123	38710	252
ITALO 3 0F2H1 4.7-15M		35170	286	122	41475	270
ITALO 3 0F3 4.5-9M	STE-M STE-S STW	22720	169	134	26550	162
ITALO 3 0F3 4.5-10M		25190	188	133	29500	180
ITALO 3 0F3 4.5-11M		27740	207	134	32450	198
ITALO 3 0F3 4.5-12M		30310	227	133	35400	216
ITALO 3 0F3 4.5-13M		32840	247	132	38350	234
ITALO 3 0F3 4.5-14M		35250	266	132	41300	252
ITALO 3 0F3 4.5-15M		37500	284	132	44250	270

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 3 0F3 4.7-7M	STE-M STE-S STW	22130	175	126	26145	168
ITALO 3 0F3 4.7-8M		25180	201	125	29880	192
ITALO 3 0F3 4.7-9M		28680	228	125	33615	216
ITALO 3 0F3 4.7-10M		31710	253	125	37350	240
ITALO 3 0F3 4.7-11M		35040	278	126	41085	264
ITALO 3 0F3 4.7-12M		38480	304	126	44820	288
ITALO 3 0F2 4.5-9M	STA STA1	14510	114	127	17703	108
ITALO 3 0F2 4.5-10M		16020	127	126	19670	120
ITALO 3 0F2 4.5-11M		17580	140	125	21637	132
ITALO 3 0F2 4.5-12M		19170	153	125	23604	144
ITALO 3 0F2 4.5-13M		20770	166	125	25571	156
ITALO 3 0F2 4.5-14M		22360	178	125	27538	168
ITALO 3 0F2 4.5-15M	23930	189	126	29505	180	
ITALO 3 0F2 4.7-9M	STA STA1	18420	152	121	22410	144
ITALO 3 0F2 4.7-10M		20380	169	120	24900	160
ITALO 3 0F2 4.7-11M		22390	187	119	27390	176
ITALO 3 0F2 4.7-12M		24410	204	119	29880	192
ITALO 3 0F2 4.7-13M		26410	221	119	32370	208
ITALO 3 0F2 4.7-14M		28350	238	119	34860	224
ITALO 3 0F2 4.7-15M	30210	254	118	37350	240	

*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 3 0F2H1 3.5-9M	S05 STU-M STU-S SV	15720	128	123	18280	117
ITALO 3 0F2H1 3.5-10M		17340	143	121	20311	130
ITALO 3 0F2H1 3.5-11M		19040	157	121	22342	143
ITALO 3 0F2H1 3.5-12M		20760	172	121	24373	156
ITALO 3 0F2H1 3.5-13M		22490	187	120	26405	169
ITALO 3 0F2H1 3.5-14M		24220	200	121	28436	182
ITALO 3 0F2H1 3.5-15M		25910	213	122	30467	195
ITALO 3 0F2H1 3.7-9M	S05 STU-M STU-S SV	19940	172	116	23143	162
ITALO 3 0F2H1 3.7-10M		22070	191	116	25715	180
ITALO 3 0F2H1 3.7-11M		24250	210	115	28286	198
ITALO 3 0F2H1 3.7-12M		26430	230	115	30857	216
ITALO 3 0F2H1 3.7-13M		28600	249	115	33429	234
ITALO 3 0F2H1 3.7-14M		30700	268	115	36000	252
ITALO 3 0F2H1 3.7-15M		32710	286	114	38572	270
ITALO 3 0F3 3.5-9M	STE-M STE-S STW	21130	169	125	24692	162
ITALO 3 0F3 3.5-10M		23430	188	125	27435	180
ITALO 3 0F3 3.5-11M		25800	207	125	30179	198
ITALO 3 0F3 3.5-12M		28190	227	124	32922	216
ITALO 3 0F3 3.5-13M		30540	247	124	35666	234
ITALO 3 0F3 3.5-14M		32780	266	123	38409	252
ITALO 3 0F3 3.5-15M		34880	284	123	41153	270



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 3 0F3 3.7-7M	STE-M STE-S STW	20580	175	118	24315	168
ITALO 3 0F3 3.7-8M		23420	201	117	27788	192
ITALO 3 0F3 3.7-9M		26670	228	117	31262	216
ITALO 3 0F3 3.7-10M		29490	253	117	34736	240
ITALO 3 0F3 3.7-11M		32590	278	117	38209	264
ITALO 3 0F3 3.7-12M		35790	304	118	41683	288
ITALO 3 0F2 3.5-9M	STA STA1	13490	114	118	16464	108
ITALO 3 0F2 3.5-10M		14900	127	117	18293	120
ITALO 3 0F2 3.5-11M		16350	140	117	20122	132
ITALO 3 0F2 3.5-12M		17830	153	117	21952	144
ITALO 3 0F2 3.5-13M		19320	166	116	23781	156
ITALO 3 0F2 3.5-14M		20790	178	117	25610	168
ITALO 3 0F2 3.5-15M	22250	189	118	27440	180	
ITALO 3 0F2 3.7-9M	STA STA1	17130	152	113	20841	144
ITALO 3 0F2 3.7-10M		18950	169	112	23157	160
ITALO 3 0F2 3.7-11M		20820	187	111	25473	176
ITALO 3 0F2 3.7-12M		22700	204	111	27788	192
ITALO 3 0F2 3.7-13M		24560	221	111	30104	208
ITALO 3 0F2 3.7-14M		26370	238	111	32420	224
ITALO 3 0F2 3.7-15M	28100	254	111	34736	240	

*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%.