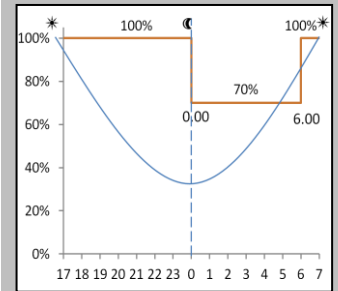
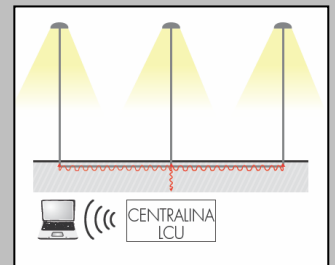


DA Profile



PLM



ITALO 1

MAIN CHARACTERISTICS

<b>Applications</b>	Street lighting
<b>Optic</b>	STE-M/S: Asymmetrical optic for street lighting (suburban). (0F3) STU-M/S: Asymmetrical optic for street lighting (urban). (0F2H1) STW: Asymmetrical optic for wide roads and wet asphalt lighting. (0F3) SV: Asym. optic for narrow urban streets or highway entrance/exit turns. (0F2H1) OP-DX / SX: Asymmetrical optic for crosswalks lighting. (0F6) S05: Asymmetrical optic for urban and street lighting. (0F2H1) STA / STA1: Asymmetrical optic for V and P categories. (0F2) ASC: Multi-focal asymmetric optic with adjustable emission. (0F6) Colour temperature: 4000K, (optional 3000K, 5700K)   CRI ≥ 70 Photobiological safety class: EXEMPT GROUP CIE Photometrical classification: Semi cut-off IES Photometrical classification: Full cut-off LED source efficiency: 151 lm/W @ 525mA, Tj=85°C – 4000K
<b>Insulation class</b>	EU: II, I - US: 1
<b>Protection degree</b>	IP66   IK 09 total
<b>LED Modules</b>	Removable / Replaceable
<b>Tilt Angle</b>	Post-top: 0°, +5°, +10°, +15°, +20°   Bracket: 0°, -5°, -10°, -15°, -20°
<b>Dimensions</b>	See the drawing
<b>Weight</b>	6.8 kg max
<b>Exposed surface</b>	Side: 0.05m <sup>2</sup> – Top: 0.18m <sup>2</sup>   SCx:0.04m <sup>2</sup>
<b>Mounting</b>	Bracket or Post-top Ø60mm Ø33mm ÷ Ø60mm (optional)   Ø60mm ÷ Ø76mm (optional)
<b>Gear tray</b>	Removable plate.
<b>Operating temp.</b>	-40°C / +50°C
<b>Storage temperature</b>	-40°C / +80°C
<b>Main reference standards</b>	EN 60598-1, EN 60598-2-3, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN-61000-3-3

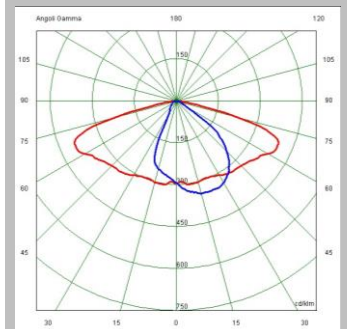


ELECTRICAL CHARACTERISTICS

<b>Rated voltage</b>	220÷240V 50/60Hz <i>(Standard tolerance +/-10%, other voltages and tolerances upon request)</i>	
<b>LED current</b>	525mA   700mA	
<b>Power factor</b>	>0,9 (at full load - PLM) >0,95 (at full load - F, DA, DAC)	
<b>On-load switch</b>	Included, with integrated cable clamp.	
<b>Mains connection</b>	For cables max section 4mm <sup>2</sup>	
<b>Surge protection</b>	SPD integrated 10kV-10kA, type II, with LED signal and thermo fuse to disconnect load at the end of life.	
<b>Control system (options)</b>	F: Fixed power not dimmable. (Base version) DA: Automatic dimming (virtual midnight) with default profile. DAC: Custom DA profile. PLM: Power Line single point communication system. WL: Wireless single point communication system.	
<b>Optical unit lifetime</b>	<b>525mA (Tq=25°C)</b>	<b>700mA (Tq=25°C)</b>
	≥100.000hr L80B10 (including critical failures) >100.000hr L80, TM-21	≥60.000hr L80B10 (including critical failures) >100.000hr L80, TM-21
	<b>525mA (Tq=50°C)</b>	<b>700mA (Tq=50°C)</b>
	>60.000hr L80B10 (including critical fail.) >100.000hr L80, TM-21	>50.000hr L80B10 (including critical fail.) >100.000hr L80, TM-21

MATERIALS

<b>Fixing</b>	Die-cast aluminum UNI EN1706 powder painted.
<b>Heat-sink</b>	
<b>Lower frame</b>	
<b>Upper canopy</b>	
<b>Closure hook</b>	
<b>Optic</b>	99.85% aluminum with a surface finish in 99.95% with vacuum-sealed deposition. Aluminum grade class A+ (DIN EN 16268)
<b>Screen</b>	Flat tempered glass, 4mm thickness high transparency.
<b>Cable gland</b>	Plastic M20x1.5 - IP68
<b>Gasket</b>	Polyurethane
<b>Colour</b>	Semi-gloss satin grey Cod. 2B



STU-M Optic

All the published photometrical data has been obtained according to EN 13032-1





LUMINAIRE	LED Current (mA)	OPTICS	RATED LUMINAIRE FLUX <sup>1</sup> (Tq=25°C, 4000K, lm)	RATED LUMINAIRE POWER <sup>1</sup> (Tq=25°C, Vin=230Vac, F / DA / DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, lm/W)	RATED LED FLUX <sup>2</sup> (Tj=85°C, 4000K, lm)	RATED LED POWER <sup>2</sup> (Tj=85°C, W)
ITALO 1 0F2H1 4.5-1M	525	STU-S STU-M SV S05	1520	15,5	98	1841	12
ITALO 1 0F2H1 4.5-2M			3290	31	106	3879	26
ITALO 1 0F2H1 4.5-3M			4930	44,5	111	5818	39
ITALO 1 0F2H1 4.5-4M			6510	57	114	7758	52
ITALO 1 0F2H1 4.7-1M	700	STU-S STU-M SV S05	2090	22	95	2455	17
ITALO 1 0F2H1 4.7-2M			4160	40,5	103	4910	35
ITALO 1 0F2H1 4.7-3M			6210	58	107	7365	52
ITALO 1 0F2H1 4.7-4M			8210	76	108	9820	70
ITALO 1 0F3 4.5-1M	525	STE-S STE-M STW	2010	20	101	2475	16
ITALO 1 0F3 4.5-2M			4570	39,5	116	5214	34
ITALO 1 0F3 4.5-3M			6790	58	117	7821	52
ITALO 1 0F3 4.5-4M			9030	75	120	10428	69
ITALO 1 0F3 4.7-1M	700	STE-S STE-M STW	2800	28	100	3300	23
ITALO 1 0F3 4.7-2M			5730	52	110	6600	47
ITALO 1 0F3 4.7-3M			8490	76	112	9900	70
ITALO 1 0F3 4.7-4M			11270	102	110	13200	93
ITALO 1 0F6 4.5-1M	525	OP-DX OP-SX	4570	39,5	116	4950	33
ITALO 1 0F6 4.5-2M			9030	75	120	10428	69
ITALO 1 0F6 4.7-1M	700	OP-DX OP-SX	5730	52	110	6600	47
ITALO 1 0F6 4.7-2M			11270	102	110	13200	93

LUMINAIRE	LED Current (mA)	OPTICS	RATED LUMINAIRE FLUX <sup>1</sup> (Tq=25°C, 4000K, lm)	RATED LUMINAIRE POWER <sup>1</sup> (Tq=25°C, Vin=230Vac, F / DA / DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, lm/W)	RATED LED FLUX <sup>2</sup> (Tj=85°C, 4000K, lm)	RATED LED POWER <sup>2</sup> (Tj=85°C, W)
ITALO 1 0F6 4.5-1M	525	ASC-4W	4590	39,5	116	5214	34
ITALO 1 0F6 4.5-2M			9210	75	123	10428	69
ITALO 1 0F6 4.5-1M	525	ASC-5W	4570	39,5	116	5214	34
ITALO 1 0F6 4.5-2M			9170	75	122	10428	69
ITALO 1 0F6 4.5-1M	525	ASC-6W	4520	39,5	114	5214	34
ITALO 1 0F6 4.5-2M			9080	75	121	10428	69
ITALO 1 0F6 4.5-1M	525	ASC-7W	4480	39,5	113	5214	34
ITALO 1 0F6 4.5-2M			8990	75	120	10428	69
ITALO 1 0F6 4.7-1M	700	ASC-4W	5750	52	111	6600	47
ITALO 1 0F6 4.7-2M			11510	102	113	13200	93
ITALO 1 0F6 4.7-1M	700	ASC-5W	5720	52	110	6600	47
ITALO 1 0F6 4.7-2M			11450	102	112	13200	93
ITALO 1 0F6 4.7-1M	700	ASC-6W	5670	52	109	6600	47
ITALO 1 0F6 4.7-2M			11340	102	111	13200	93
ITALO 1 0F6 4.7-1M	700	ASC-7W	5610	52	108	6600	47
ITALO 1 0F6 4.7-2M			11230	102	110	13200	93

LUMINAIRE	LED Current (mA)	OPTICS	RATED LUMINAIRE FLUX <sup>1</sup> (Tq=25°C, 4000K, lm)	RATED LUMINAIRE POWER <sup>1</sup> (Tq=25°C, Vin=230Vac, F / DA / DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, lm/W)	RATED LED FLUX <sup>2</sup> (Tj=85°C, 4000K, lm)	RATED LED POWER <sup>2</sup> (Tj=85°C, W)
ITALO 1 0F2 4.5-1M	525	STA STA1	1290	14	92	1738	11
ITALO 1 0F2 4.5-2M			2790	27,5	101	3476	23
ITALO 1 0F2 4.5-3M			4180	40,5	103	5214	34
ITALO 1 0F2 4.5-4M			5520	51	108	6952	46
ITALO 1 0F2 4.7-1M	700	STA STA1	1770	20	89	2200	16
ITALO 1 0F2 4.7-2M			3530	35,5	99	4400	31
ITALO 1 0F2 4.7-3M			5270	53,5	99	6600	47
ITALO 1 0F2 4.7-4M			6970	67	104	8800	62

The tables above describe the flux and output power of the available versions. These parameters are necessary in order to guarantee a correct comparison of the luminaire performance.

In particular, the luminaire efficiency (expressed in lm/W) must be calculated as the ratio between the output luminous flux of the luminaire and the power absorbed by the input power supply unit.

For the sake of completeness the tables also show the data of the nominal flux and power of the used LED.

Note: 1:Rated data obtained in laboratory  
2:Rated data extrapolated from LED manufacturer datasheet.





LUMINAIRE	LED Current (mA)	OPTICS	INRUSH CURRENT Duration 50%pk (µs)	INRUSH CURRENT Peak (A)	MCB B-Type 10A / 16A / 25A	SURGE PROTECTION CL.I (CM / DM, kV)	SURGE PROTECTION CL.II (CM / DM, kV)
ITALO 1 0F2H1 4.5-1M	525	STU-S STU-M SV S05	150	27	20 / 32 / 40	10 / 10	7 / 10
ITALO 1 0F2H1 4.5-2M			180	45	10 / 20 / 30	10 / 10	9 / 10
ITALO 1 0F2H1 4.5-3M			200	53	7 / 12 / 21	10 / 10	9 / 10
ITALO 1 0F2H1 4.5-4M			200	53	7 / 12 / 21	10 / 10	9 / 10
ITALO 1 0F2H1 4.7-1M	700	STU-S STU-M SV S05	150	27	20 / 32 / 40	10 / 10	7 / 10
ITALO 1 0F2H1 4.7-2M			180	45	10 / 20 / 30	10 / 10	9 / 10
ITALO 1 0F2H1 4.7-3M			200	53	7 / 12 / 21	10 / 10	9 / 10
ITALO 1 0F2H1 4.7-4M			210	57	7 / 12 / 21	10 / 10	9 / 10
ITALO 1 0F3 4.5-1M	525	STE-S STE-M STW	150	27	20 / 32 / 40	10 / 10	7 / 10
ITALO 1 0F3 4.5-2M			200	53	7 / 12 / 21	10 / 10	9 / 10
ITALO 1 0F3 4.5-3M			200	53	7 / 12 / 21	10 / 10	9 / 10
ITALO 1 0F3 4.5-4M			330	40	7 / 12 / 21	10 / 10	9 / 10
ITALO 1 0F3 4.7-1M	700	STE-S STE-M STW	150	27	20 / 32 / 40	10 / 10	7 / 10
ITALO 1 0F3 4.7-2M			200	53	7 / 12 / 21	10 / 10	9 / 10
ITALO 1 0F3 4.7-3M			210	57	7 / 12 / 21	10 / 10	9 / 10
ITALO 1 0F3 4.7-4M			360	58	7 / 12 / 21	10 / 10	9 / 10
ITALO 1 0F6 4.5-1M	525	OP-DX OP-SX	4570	53	7 / 12 / 21	10 / 10	9 / 10
ITALO 1 0F6 4.5-2M			9030	40	7 / 12 / 21	10 / 10	9 / 10
ITALO 1 0F6 4.7-1M	700	OP-DX OP-SX	5730	53	7 / 12 / 21	10 / 10	9 / 10
ITALO 1 0F6 4.7-2M			11270	58	7 / 12 / 21	10 / 10	9 / 10

LUMINAIRE	LED Current (mA)	OPTICS	INRUSH CURRENT Duration 50%pk (µs)	INRUSH CURRENT Peak (A)	MCB B-Type 10A / 16A / 25A	SURGE PROTECTION CL.I (CM / DM, kV)	SURGE PROTECTION CL.II (CM / DM, kV)
ITALO 1 0F6 4.5-1M	525	ASC-4W	200	53	20 / 32 / 40	10 / 10	9 / 10
ITALO 1 0F6 4.5-2M			330	40	6 / 12 / 24	10 / 10	9 / 10
ITALO 1 0F6 4.5-1M	525	ASC-5W	200	53	7 / 12 / 21	10 / 10	9 / 10
ITALO 1 0F6 4.5-2M			330	40	6 / 12 / 24	10 / 10	9 / 10
ITALO 1 0F6 4.5-1M	525	ASC-6W	200	53	20 / 32 / 40	10 / 10	9 / 10
ITALO 1 0F6 4.5-2M			330	40	6 / 12 / 24	10 / 10	9 / 10
ITALO 1 0F6 4.5-1M	525	ASC-7W	200	53	7 / 12 / 21	10 / 10	9 / 10
ITALO 1 0F6 4.5-2M			330	40	6 / 12 / 24	10 / 10	9 / 10
ITALO 1 0F6 4.7-1M	700	ASC-4W	200	53	7 / 12 / 21	10 / 10	9 / 10
ITALO 1 0F6 4.7-2M			330	62	4 / 8 / 14	10 / 10	9 / 10
ITALO 1 0F6 4.7-1M	700	ASC-5W	200	53	7 / 12 / 21	10 / 10	9 / 10
ITALO 1 0F6 4.7-2M			330	62	4 / 8 / 14	10 / 10	9 / 10
ITALO 1 0F6 4.7-1M	700	ASC-6W	200	53	7 / 12 / 21	10 / 10	9 / 10
ITALO 1 0F6 4.7-2M			330	62	4 / 8 / 14	10 / 10	9 / 10
ITALO 1 0F6 4.7-1M	700	ASC-7W	200	53	7 / 12 / 21	10 / 10	9 / 10
ITALO 1 0F6 4.7-2M			330	62	4 / 8 / 14	10 / 10	9 / 10

LUMINAIRE	LED Current (mA)	OPTICS	INRUSH CURRENT Duration 50%pk (µs)	INRUSH CURRENT Peak (A)	MCB B-Type 10A / 16A / 25A	SURGE PROTECTION CL.I (CM / DM, kV)	SURGE PROTECTION CL.II (CM / DM, kV)
ITALO 1 0F2 4.5-1M	525	STA STA1	150	27	20 / 32 / 40	10 / 10	9 / 10
ITALO 1 0F2 4.5-2M			180	45	10 / 20 / 30	10 / 10	9 / 10
ITALO 1 0F2 4.5-3M			200	53	7 / 12 / 21	10 / 10	9 / 10
ITALO 1 0F2 4.5-4M			200	53	7 / 12 / 21	10 / 10	9 / 10
ITALO 1 0F2 4.7-1M	700	STA STA1	150	27	20 / 32 / 40	10 / 10	9 / 10
ITALO 1 0F2 4.7-2M			180	45	10 / 20 / 30	10 / 10	9 / 10
ITALO 1 0F2 4.7-3M			200	53	7 / 12 / 21	10 / 10	9 / 10
ITALO 1 0F2 4.7-4M			200	53	7 / 12 / 21	10 / 10	9 / 10

NOTE 1: The number of luminaires under a three-phase MCB is calculated multiplying by 3 the number in the table. These values are based on data declared by power supply manufacturer and tested on worst case MCB model. An inrush current limiter (i.e. Finder SSR 77.11.x.xxx.8250 (15A) or 77.31.x.xxx.8050 model (30A)) can improve the max.number of luminaire under the MCB

NOTE 2: Power supply manufacturer never did any considerations about 50A or 63A MCB. So we can't declare anything about using of MCB higher than 25A.

