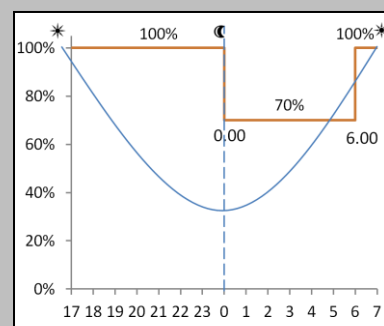
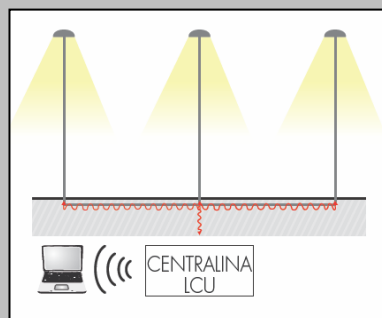








**italo1**  
AVANCE IN ITALY

## DA Profile

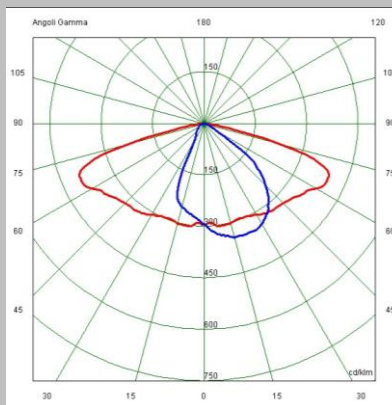


## PLM



ITALO 1		
MAIN CHARACTERISTICS		
Applications	Street lighting	
Optic	STE-M/S: Asymmetrical optic for street lighting (extraurban). (0F3) STU-M/S: Asymmetrical optic for street lighting (urban). (0F2H1) STW: Asymmetrical optic for wide roads and wet asphalts lighting. (0F3) SV: Asymmetrical optic for narrow urban streets or highway entrance/exit turns. (0F2H1) Colour temperature: 4000K , (optional 3000K) CRI ≥ 70 Photobiological safety class: EXEMPT GROUP CIE Photometrical classification: Semi cut-off IES Photometrical classification: Full cut-off LED source efficiency: 130 lm/W @ 700mA, Tj=85°C – 4000K	
Insulation class	EU:II (I optional) - US: 1	
Protection degree	IP66	
Impact protection	IK09	
LED Modules	Removable	
Tilt Angle	Post-top: 0°, +5°, +10°, +15°, +20°   Bracket: 0°, -5°, -10°, -15°, -20°	
Dimensions	See the drawing	
Weight	8Kg	
Exposed surface	Side: 0.05m <sup>2</sup> – Top: 0.18m <sup>2</sup>	
Mounting	Bracket or Post-top Ø60mm Ø33mm ÷ Ø60mm (optional) Ø60mm ÷ Ø76mm (optional)	
Gear tray	Removable plate.	
Main reference standards	EN 60598-1, EN 60598-2-3, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3	
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>		
ELECTRICAL CHARACTERISTICS		
Rated voltage	220÷240V 50/60Hz	
LED current	525mA (Ta max 50°C) 700mA (Ta max 50°C)	
Power factor	>0,9 (at full load)	
On-load switch	Included, with integrated cable clamp	
Mains connection	For cables max section 4mm <sup>2</sup>	
Control system	F: Fixed output DA: Automatic dimming with default profile. DAC Custom DA profile. PLM: Single point communication module.	
Optical unit lifetime	525mA (Ta=25°C)	700mA (Ta=25°C)
	>70.000hr B20L80 (including critical fail.) >100.000hr L80, TM-21	>60.000hr B20L80 (including critical fail.) >100.000hr L80, TM-21
	525mA (Ta=50°C)	700mA (Ta=50°C)
	>60.000hr B20L80 (including critical fail.) >100.000hr L80, TM-21	>50.000hr B20L80 (including critical fail.) >100.000hr L80, TM-21
MATERIALS		
Fixing	Die-cast aluminium UNI EN1706 powder painted.	
Heat-sink	Die-cast aluminium UNI EN1706 powder painted.	
Lower frame	Die-cast aluminium UNI EN1706 powder painted.	
Upper canopy	Die-cast aluminium UNI EN1706 powder painted.	
Closure hook	Extruded aluminium with stainless steel spring.	
Optic	99.85% aluminium with a surface finish in 99.95% with vacuum-sealed deposition	
Screen	Flat tempered glass, 4mm thickness.	
Cable gland	Plastic M20x1.5 - IP68	
Gasket	Polyurethane	

Optical unit lifetime could be different for each size of the luminaire.  
Data listed above are subject to change without notice.



## STU-M Optic

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

The tables below 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.

LUMINAIRE FLUX <sup>1</sup> (Ta=25°C, 4000K, lm)		
MODULES	525mA	700mA
	STE-M / STE-S / STW Optic	
1	2040	2720
2	4440	5570
3	6590	8240
4	8770	10940
MODULES	525mA	700mA
	STU-M / STU-S / SV Optic	
1	1540	2030
2	3210	4060
3	4870	6130
4	6450	8140

RATED LUMINAIRE POWER <sup>1</sup> (Ta=25°C, Vin=230Vac, W) F and DA version at full load		
MODULES	525mA	700mA
	STE-M / STE-S / STW Optic	
1	20	27,5
2	41,5	54,5
3	61	80
4	78	103
MODULES	525mA	700mA
	STU-M / STU-S / SV Optic	
1	15,5	21
2	32,5	42,5
3	47	61
4	60	80

LUMINAIRE EFFICIENCY (Ta=25°C, lm/W)		
MODULES	525mA	700mA
	STE-M / STE-S / STW Optic	
1	102	99
2	107	102
3	108	103
4	112	106
MODULES	525mA	700mA
	STU-M / STU-S / SV Optic	
1	99	97
2	99	96
3	104	100
4	108	102

RATED LED FLUX <sup>2</sup> (Tj=85°C, 4000K, lm)		
525mA	700mA	
	STE-M / STE-S / STW Optic	
2445	3057	
4890	6114	
7335	9171	
9780	12228	
525mA	700mA	
	STU-M / STU-S / SV Optic	
1831	2293	
3662	4586	
5493	6879	
7324	9172	

RATED LED POWER <sup>2</sup> (Tj=85°C, W)		
525mA	700mA	
	STE-M / STE-S / STW Optic	
17	24	
35	47	
52	71	
70	94	
525mA	700mA	
	STU-M / STU-S / SV Optic	
13	18	
26	35	
39	53	
52	71	

SURGE PROTECTION Diff. mode / Common Mode		
Class II		Class I / 1
10/7 kV		10/10 kV
10/7 kV		10/10 kV
10/7 kV		10/10 kV
10/6 kV		10/10 kV

Note: The characteristics of the product listed above are subjected to change. They will have to be confirmed in case of order.

Values indicated in this technical sheet are to be considered rated values subject to a tolerance of +/-5%. Data listed above are subject to change without notice.

1: Rated data obtained in laboratory

2: Rated data extrapolated from LED manufacturer datasheet.

Multiplier to obtain the **flux** as a function of Ta and Tk.

Ta(°C)	Multiplier
50	0,94
40	0,96
25	1,00
15	1,02
5	1,04
0	1,05
Tk(K)	Multiplier
3000	0.90
4000	1.00

Multiplier to obtain the **power** as a function of Ta.

Ta (°C)	Multiplier
50	0,99
25	1,00
0	1,01

#### Legend:

Ta = Ambient temperature.

Tk = Colour temperature.

#### Example of luminaire data calculation

Ta=40°C

Tk=4000K

**4 MODULI LED, 525mA STE-M Optic**

**Flux:** 8770 x 0,96 = 8419,2

**Power:** 78 x 0,99 = 77,2

**Efficiency:** 8419,2 / 77,2 = 109 lm/W