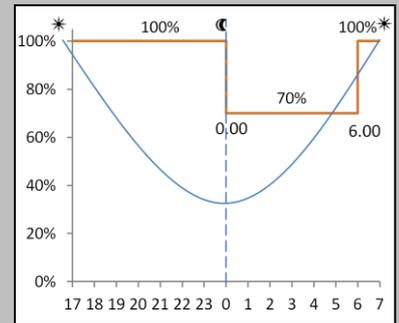
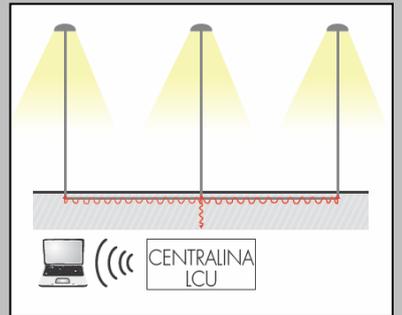


DA Profile



PLM



ITALO 1	
MAIN CHARACTERISTICS	
<b>Applications</b>	Street lighting
<b>Optic</b>	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
<b>Insulation class</b>	EU:II (I optional) - US: 1
<b>Protection degree</b>	IP66
<b>Impact protection</b>	IK09
<b>LED Modules</b>	Removable
<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>	8Kg
<b>Exposed surface</b>	Side: 0.05m <sup>2</sup> – Top: 0.18m <sup>2</sup>
<b>Mounting</b>	Bracket or Post-top Ø60mm Ø33mm ÷ Ø60mm (optional) Ø60mm ÷ Ø76mm (optional)
<b>Gear tray</b>	Removable plate.
<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



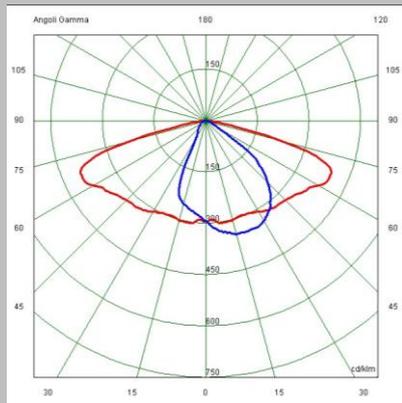
ELECTRICAL CHARACTERISTICS

<b>Rated voltage</b>	220÷240V 50/60Hz	
<b>LED current</b>	525mA (Ta max 50°C) 700mA (Ta max 50°C)	
<b>Power factor</b>	>0,9 (at full load)	
<b>On-load switch</b>	Included, with integrated cable clamp	
<b>Mains connection</b>	For cables max section 4mm <sup>2</sup>	
<b>Control system</b>	F: Fixed output DA: Automatic dimming with default profile. DAC Custom DA profile. PLM: Single point communication module.	
<b>Optical unit lifetime</b>	<b>525mA (Ta=25°C)</b>	<b>700mA (Ta=25°C)</b>
	>70.000hr B20L80 (including critical fail.) >100.000hr L80, TM-21	>60.000hr B20L80 (including critical fail.) >100.000hr L80, TM-21
	<b>525mA (Ta=50°C)</b>	<b>700mA (Ta=50°C)</b>
	>60.000hr B20L80 (including critical fail.) >100.000hr L80, TM-21	>50.000hr B20L80 (including critical fail.) >100.000hr L80, TM-21

MATERIALS

<b>Fixing</b>	Die-cast aluminium UNI EN1706 powder painted.
<b>Heat-sink</b>	Die-cast aluminium UNI EN1706 powder painted.
<b>Lower frame</b>	Die-cast aluminium UNI EN1706 powder painted.
<b>Upper canopy</b>	Die-cast aluminium UNI EN1706 powder painted.
<b>Closure hook</b>	Extruded aluminium with stainless steel spring.
<b>Optic</b>	99.85% aluminium with a surface finish in 99.95% with vacuum-sealed deposition
<b>Screen</b>	Flat tempered glass, 4mm thickness.
<b>Cable gland</b>	Plastic M20x1.5 - IP68
<b>Gasket</b>	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	STU-M / STU-S / SV Optic	
1	1540	2030
2	3210	4060
3	4870	6130
4	6450	8140

RATED LED FLUX <sup>2</sup> (Tj=85°C, 4000K, lm)		
MODULES	525mA	700mA
	STE-M / STE-S / STW Optic	
1	2445	3057
2	4890	6114
3	7335	9171
4	9780	12228
MODULES	STU-M / STU-S / SV Optic	
1	1831	2293
2	3662	4586
3	5493	6879
4	7324	9172

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	STU-M / STU-S / SV Optic	
1	15,5	21
2	32,5	42,5
3	47	61
4	60	80

RATED LED POWER <sup>2</sup> (Tj=85°C, W)		
MODULES	525mA	700mA
	STE-M / STE-S / STW Optic	
1	17	24
2	35	47
3	52	71
4	70	94
MODULES	STU-M / STU-S / SV Optic	
1	13	18
2	26	35
3	39	53
4	52	71

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	STU-M / STU-S / SV Optic	
1	99	97
2	99	96
3	104	100
4	108	102

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