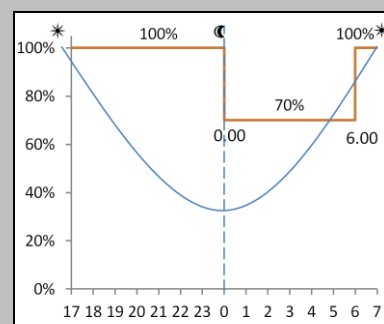
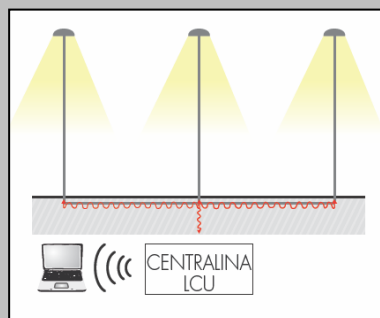

italo2
MADE IN ITALY

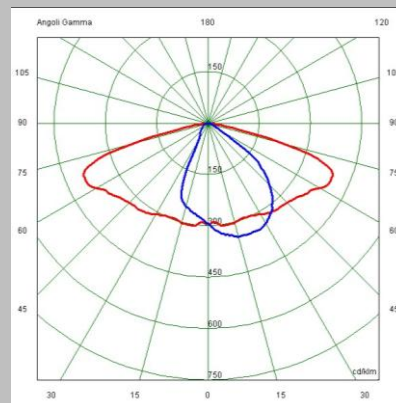
DA Profile



PLM



ITALO 2	
MAIN CHARACTERISTICS	
Applications	Street lighting
Optic	STU-M/S: Asymmetrical optic for street lighting (urban). (0F2H1) STE-M/S: Asymmetrical optic for street lighting (extraurban). (0F3) STW: Asymmetrical optic for wide roads and wet asphalts lighting. (0F3) SV: Asymmetrical optic for narrow urban streets or highway entrance/exit turns. (0F2H1) STA / STA1: Asymmetrical optic for V and P categories. (0F2) OP-DX / SX: Asymmetrical optic for crosswalks lighting. 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 / Replaceable
Tilt Angle	Post-top: 0°, +5°, +10°, +15°, +20° Bracket: 0°, -5°, -10°, -15°, -20°
Dimensions&weight	See the drawing – 13 kg
Exposed surface	Side: 0.08m ² – Top: 0.3m ²
Mounting	Bracket or Post-top Ø60mm Ø33mm ÷ Ø60mm (optional) Ø60mm ÷ Ø76mm (optional)
Gear tray	Removable plate.
Operating temp.	-40°C / +50°C (525mA) -40°C / +40°C (700mA)
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)
LED current	525mA (Ta max 50°C) 700mA (Ta max 40°C)
Power factor	>0,9 (at full load)
On-load switch	Included, with integrated cable clamp
Mains connection	For cables max section 4mm ²
Control system	F: Fixed output DA: Automatic dimming with default profile. DAC: Custom DA profile. PLM: Single point communication module.
Optical unit lifetime (Ta=25°C)	525mA
	>70.000hr B20L80 (including critical failures)
	>100.000hr L80, TM21
	700mA
	>50.000hr B20L80 (including critical failures)
	>70.000hr L80, TM21
MATERIALS	
Fixing	Die-cast aluminium UNI EN1706 – Cu < 0.1% powder painted.
Heat-sink	Die-cast aluminium UNI EN1706 – Cu < 0.1% powder painted.
Lower frame	Die-cast aluminium UNI EN1706 – Cu < 0.1% powder painted.
Upper canopy	Die-cast aluminium UNI EN1706 – Cu < 0.1% 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. Alluminum grade class A+ (DIN EN 16268)
Screen	Flat tempered glass, 5mm thickness.
Cable gland	Plastic M20x1.5 - IP68
Gasket	Polyurethane



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 ¹ (Ta=25°C, 4000K, lm)		
MODULES	525mA	700mA
	STE-M / STE-S / STW Optic	
4	8990	11170
5	11340	13970
6	13330	16460
7	15250	-
8	17500	-
MODULES	STU-M / STU-S / SV Optic	
4	6340	8040
5	8090	10320
6	9750	12300
7	11520	14460
8	13140	16450
MODULES	STA / STA1 Optic	
4	5440	6790
5	6810	8490
6	8170	10190
7	9660	11920
8	11040	13630
MODULES	OP-DX / OP-SX Optic	
3	13130	16170
4	17510	21560

RATED LED FLUX ² (Tj=85°C, 4000K, lm)		
525mA	700mA	
	STE-M / STE-S / STW Optic	
10224	12936	
12780	16170	
15336	19404	
17892	-	
20448	-	
	STU-M / STU-S / SV Optic	
7620	9644	
9525	12055	
11430	14466	
13335	16877	
15240	19288	
	STA / STA1 Optic	
6816	8624	
8520	10780	
10224	12936	
11928	15092	
13632	17248	
	OP-DX / OP-SX Optic	
15336	19404	
20448	25872	

RATED LUMINAIRE POWER ¹ (Ta=25°C, Vin=230Vac, W) F and DA version at full load		
MODULES	525mA	700mA
	STE-M / STE-S / STW Optic	
4	78	103
5	99	128
6	116	150
7	133	-
8	152	-
MODULES	STU-M / STU-S / SV Optic	
4	60	80
5	75	100
6	90	118
7	105	137
8	117	154
MODULES	STA / STA1 Optic	
4	54	71
5	67	88,5
6	80,5	106,5
7	93	120,5
8	106,5	137,5
MODULES	OP-DX / OP-SX Optic	
3	116	150
4	155	200

RATED LED POWER ² (Tj=85°C, W)		
525mA	700mA	
	STE-M / STE-S / STW Optic	
70	94	
87	118	
105	141	
122	-	
139	-	
	STU-M / STU-S / SV Optic	
52	71	
65	88	
78	106	
92	123	
105	141	
	STA / STA1 Optic	
46	63	
58	78	
70	94	
81	110	
93	125	
	OP-DX / OP-SX Optic	
105	141	
139	188	

LUMINAIRE EFFICIENCY (Ta=25°C, lm/W)		
MODULES	525mA	700mA
	STE-M / STE-S / STW Optic	
4	115	108
5	115	109
6	115	110
7	115	-
8	115	-
MODULES	STU-M / STU-S / SV Optic	
4	106	101
5	108	103
6	108	104
7	110	106
8	112	107
MODULES	STA / STA1 Optic	
4	101	96
5	102	96
6	101	96
7	104	99
8	104	99
MODULES	OP-DX / OP-SX Optic	
3	113	108
4	113	108

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

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
5700	1.02

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

*Ta (°C)	Multiplier
50	0,99
25	1.00
0	1,01

*Note : Valid only for allowed versions
(see limits under Operating Temperatures)

Legend:

Ta = Ambient temperature.

Tk = Colour temperature.

Example of luminaire data calculation

Ta=40°C

Tk=4000K

4 LED MODULES, 525mA STE-M Optic

Flux: 8990 x 0,96 = 8630,4

Power: 78 x 0,99 = 77,2

Efficiency: 8630,4 / 77,2 = 112 lm/W

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.