

A2 0C STL VP

MAIN CHARACTERISTICS

Applications	Street lighting
Optic	STL VP: Asymmetric optic for street lighting Colour Temperature: 4000K CRI ≥ 70 Photobiological Safety Class: EXEMPT GROUP LED source efficiency: 139lm/W @ 525mA, Tj=25°C 128lm/W @ 700mA, Tj=25°C Photometric classification : Cut-off
Insulation class	II (I optional)
Protection degree	IP66
Tilt angle	Post-top: 0° Bracket: 0°, -5°, -10°, -15°
Fixing	Post-top: Ø60-Ø76mm Bracket: Ø60mm
Gear tray	Removable
LED Modules	Removable, mantaining IP degree of optical compartment
Dimensions an weight	689x156x248mm 6.5Kg ÷ 7.5Kg
Side surface	0,08m ²
Top surface	0,14m ²
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
LED Current	525mA 700mA
Power factor	>0,9 (at full load)
On load switch	Included with integrated cable clamp
Connection	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.
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Surge protection	Pulse withstand class I: up to 10kV Pulse withstand class II: from 5kV to 9kV
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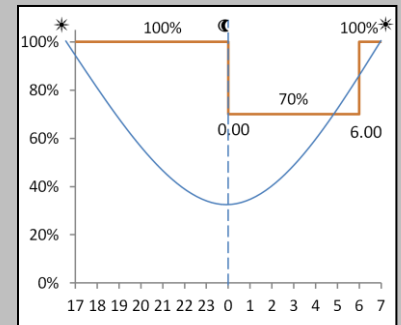
Optical unit lifetime (Ta=25°C)	525mA
	>80.000hr B20L80 (including critical failures) >100.000hr L70, TM-21 >100.000hr L80, TM-21
	700mA
	>70.000hr B20L80 (including critical failures) >100.000hr L70, TM-21 >100.000hr L80, TM-21

MATERIALS

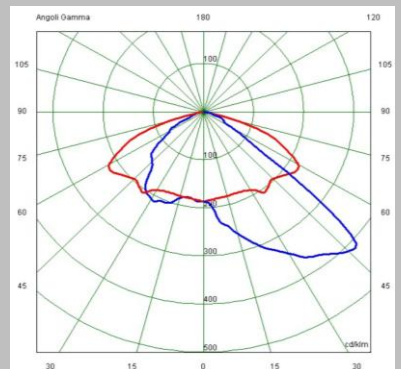
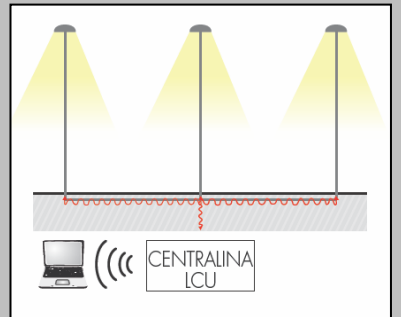
Fixing	Die-cast aluminium UNI EN 1706
Heatsink	Extruded aluminium EN AW - UNI EN 755
Frame	Die-cast aluminium UNI EN 1706
Upper canopy	Die-cast aluminium UNI EN 1706
Optic	Transparent polycarbonate high efficiency, UV stabilized
Screen	Flat tempered glass, 4mm thickness
Cable gland	Membrane fairlead (Optional Plastic M20x1.5 - IP68)
Gasket	Polyurethane
Colour	Upper canopy: Semi-gloss gray satin cod: 2B Lower frame: Sleek matte black cod.2A



DA Profile



PLM



STL VP 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)		
N. LED	525mA	700mA
	STL VP Optic	
10	1440	1830
20	2980	3620
30	4370	-
40	5660	-
50	6880	-

RATED LED FLUX ² (Tj=25°C, 4000K, lm)	
525mA	700mA
2150	2680
4300	5360
6450	-
8600	-
10750	-

RATED LUMINAIRE POWER ¹ (Ta=25°C, Vin=230Vac, W)		
N. LED	525mA	700mA
10	17	24
20	36	47
30	52	-
40	68	-
50	84	-

RATED LED POWER ² (Tj=25°C, W)	
525mA	700mA
15	21
31	42
46	-
62	-
77	-

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%.

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



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

Ta(°C)	Multiplier
50	0.95
40	0.97
25	1.00
15	1.02
5	1.03
0	1.04

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

Ta (°C)	Multiplier
50	0.97
40	0.98
25	1.00
15	1.01
5	1.02
0	1.03

Legend:

Ta =Ambient temperature.

Example luminaire calculation data

Ta = 40°C

40 LED, 525mA, STL VP Optic

Flux: 5660 x 0.97 x 1.00 = 5490.2 lm

Power: 68 x 0.98 = 66.7 W

Efficiency: 5490.2 / 66.7 = 82 lm/W