



Iluminat public Ștefanesti

Luctări de execuție a proiectului Iluminat stradal din satul Ștefănești

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SCSTDA], valid from 21/02/2019) 4

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Description

Pentru iluminatul rutier si pietonal, calculele luminotehnice trebuie sa asigure următoarelor obiective:

- Drum central nivel de iluminat E mediu - 6 lx
- Drum secundar nivel de iluminat E mediu - 4 lx

Date pentru calcul:

- Montaj: unilateral, la fiecare pilon, câte 1 corp de iluminat pe pilon
- Distanța între piloni: 35 m (în medie pe localitate)
- Lățime carosabil: 5,5 m (în medie pe localitate)
- Retrageră stâlp: 2 m
- Înălțimea de montare: 6 – 6,5 m
- Lungime consola: 1 m
- Unghi înclinare PL: 0° - maxim 15°

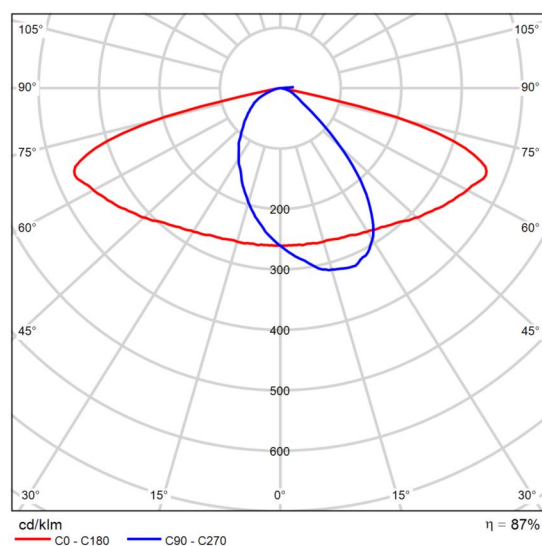
Product data sheet

SCHREDER VOLTANA 0

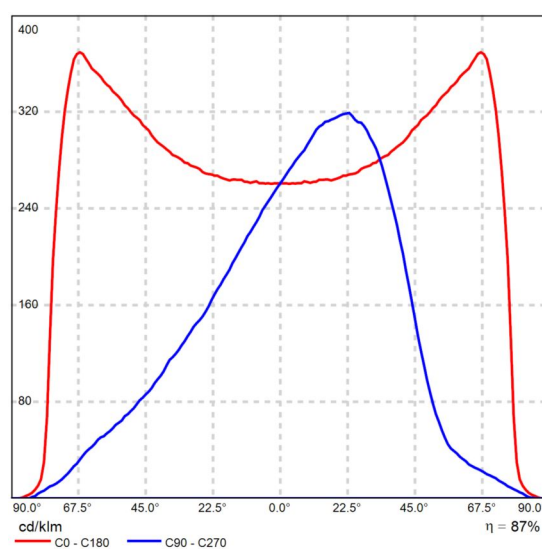


Article No. VOLTANA 0 5137 8
LH351C@1050mA
NW 740 230V 00-49-069

P	29.3 W
Φ_{Lamp}	3860 lm
$\Phi_{\text{Luminaire}}$	3353 lm
η	86.88 %
Luminous efficacy	114.4 lm/W
CCT	3000 K
CRI	100



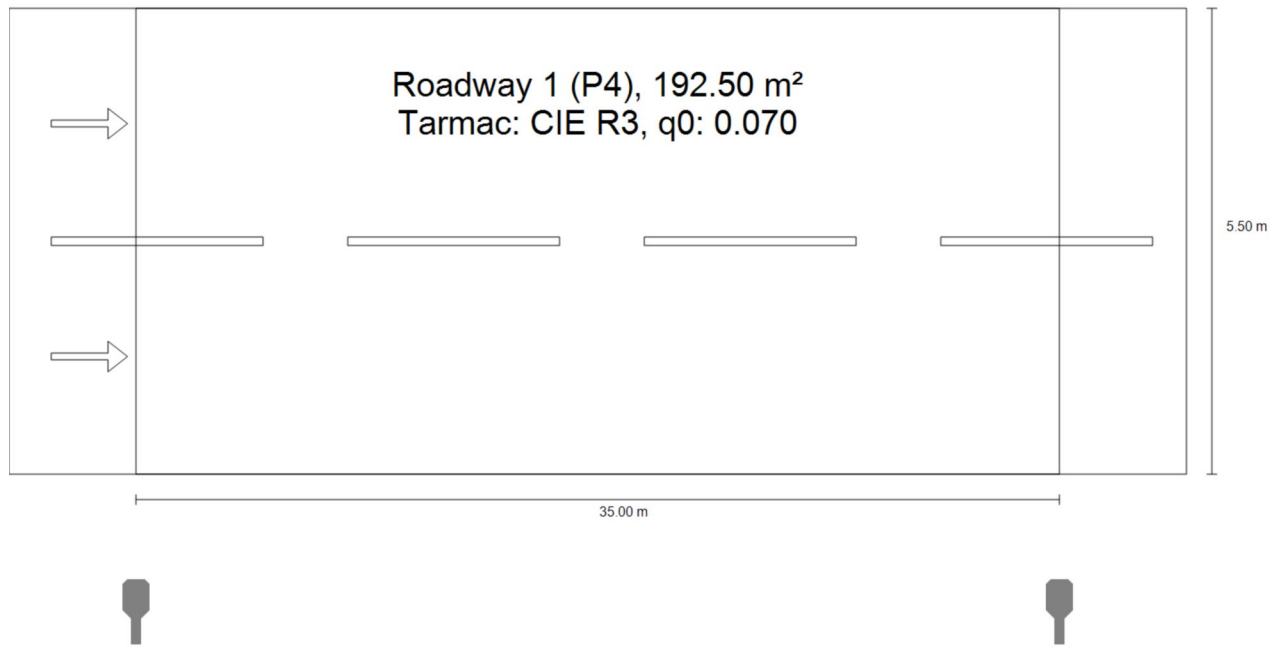
Polar LDC



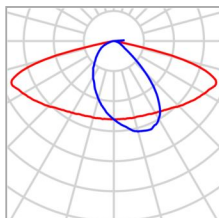
Linear LDC

Street 1

Summary (according to EN 13201:2015)



Street 1

Summary (according to EN 13201:2015)

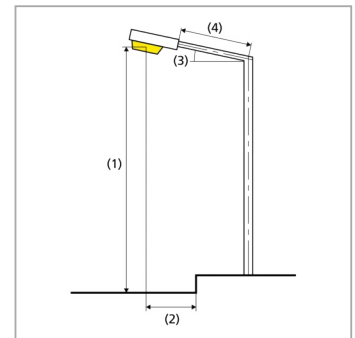
Manufacturer	SCHREDER	P	29.3 W
Article No.	VOLTANA 0 5137 8 LH351C@1050mA NW 740 230V 00-49-069	Φ_{Lamp}	3860 lm
Article name	VOLTANA 0	$\Phi_{\text{Luminaire}}$	3353 lm
Fitting	1x 8 LH351C@1050mA NW 740 230V 00-49-069 [CJO!SCSTDA], valid from 21/02/2019	η	86.88 %

Street 1

Summary (according to EN 13201:2015)

VOLTANA 0 (single side bottom)

Pole distance	35.000 m
(1) Light spot height	6.500 m
(2) Light point overhang	-1.500 m
(3) Boom inclination	0.0°
(4) Boom length	0.500 m
Annual operating hours	4000 h: 100.0 %, 29.3 W
Consumption	849.7 W/km
ULR / ULOR	0.00 / 0.00
Max. luminous intensities Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	$\geq 70^\circ$: 505 cd/klm $\geq 80^\circ$: 72.9 cd/klm $\geq 90^\circ$: 0.00 cd/klm
Luminous intensity class The luminous intensity values in [cd/klm] for calculation of the luminous intensity class refer to the luminaire luminous flux according to EN 13201:2015.	G*3
Glare index class	D.6



Results for valuation fields

	Symbol	Calculated	Target	Check
Roadway 1 (P4)	$E_{av}^{(2)}$	6.41 lx	[6.00 - 9.00] lx	✓
	E_{min}	2.02 lx	≥ 1.00 lx	✓
	TI	16 %	≤ 30 %	✓

(2) Setpoint changed by the planner, deviant to the norm

A maintenance factor of 0.85 was used for calculating for the installation.

Street 1

Summary (according to EN 13201:2015)

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Street 1	D_p	0.024 W/lx*m ²	-
VOLTANA 0 (single side bottom)	D_e	0.6 kWh/m ² yr,	117.2 kWh/yr