Date 02.09.2021

DIALux

Iluminat public Stefanesti

Luctări de execuţie a proiectului Iluminat stradal din satul Ştefăneşti

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Date: 2021.09.23 10:40:45 MSK
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Location: Moldova

Object
s. stefanesti, r. Stefan-Voda

Content

Product data sheets

Street 1 · Alternative 1

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
• Distanta intre piloni: 35 m (în medie pe localitate)
• Lăţime carosabil: 5,5 m (în medie pe localitate)
• Retragere stâlp: 2 m
• înălţimea de montare: 6 – 6,5 m
• Lungime consola: 1 m
• Unghi înclinare PL: 0° - maxim 15°

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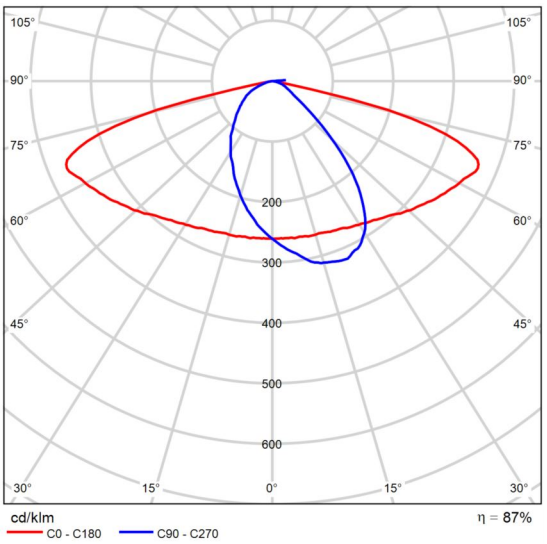
Product data sheet

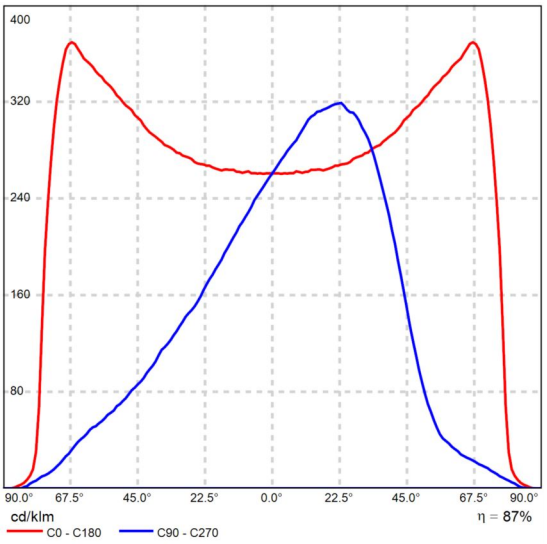
SCHREDER VOLTANA 0

Schréder

Article No.	VOLTANA 0 5137 8 LH351C@1050mA NW 740 230V 00-49-069
P	29.3 W
Φ_{Lamp}	3860 lm
$\Phi_{Luminaire}$	3353 lm
η	86.88 %
Luminous efficacy	114.4 lm/W
CCT	3000 K
CRI	100



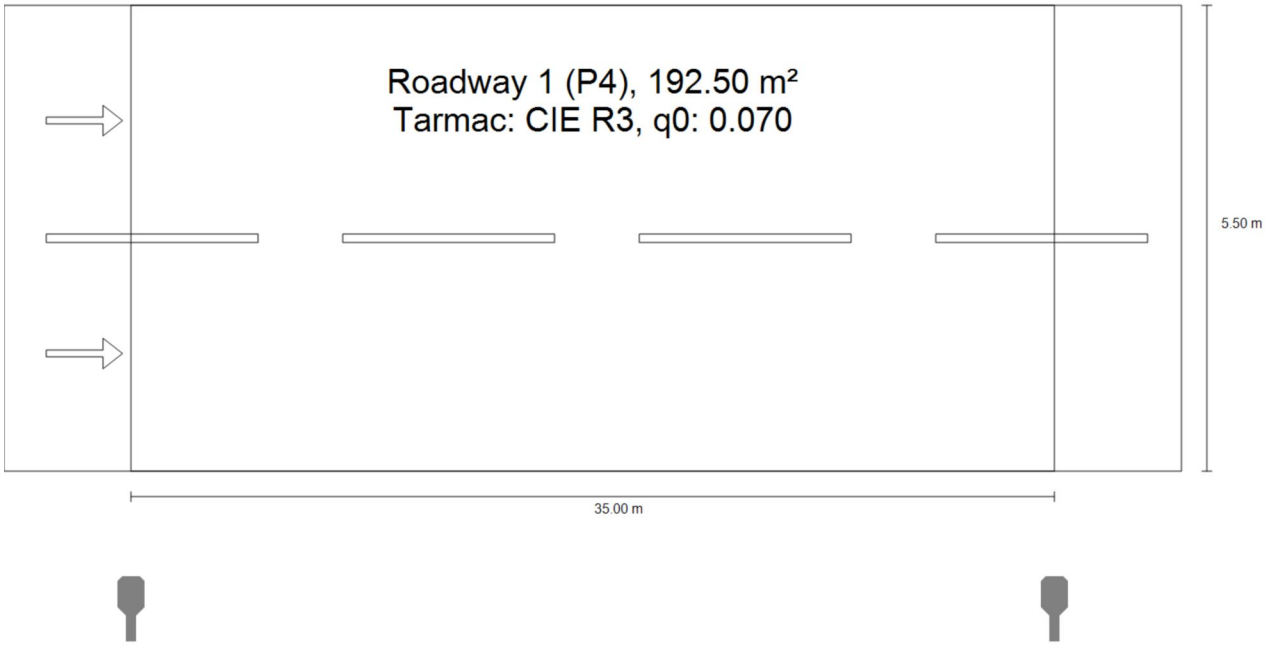
Polar LDC



Linear LDC

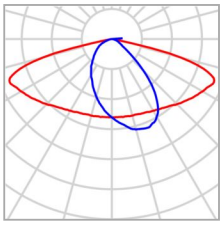
Street 1

Summary (according to EN 13201:2015)



Street 1

Summary (according to EN 13201:2015)



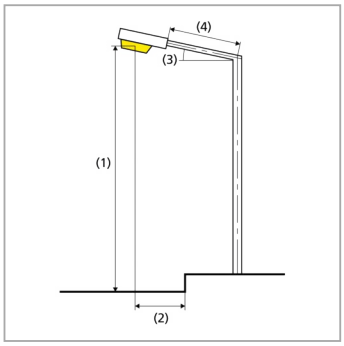
Manufacturer	SCHREDER
Article No.	VOLTANA 0 5137 8 LH351C@1050mA NW 740 230V 00-49-069
Article name	VOLTANA 0
Fitting	1x 8 LH351C@1050mA NW 740 230V 00-49-069 [CJO!SCSTDA], valid from 21/02/2019

P	29.3 W
Φ_{Lamp}	3860 lm
$\Phi_{Luminaire}$	3353 lm
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.	≥ 70°: 505 cd/klm ≥ 80°: 72.9 cd/klm ≥ 90°: 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*m²	-
VOLTANA 0 (single side bottom)	D_e	0.6 kWh/m² yr,	117.2 kWh/yr