Date 02.09.2021

DIALux

Iluminat public s. Drochia

Extinderea iluminatului stradal din s.Drochia r-ul Drochia

Digitally signed by Galciuc Igor
Date: 2021.09.07 09:03:44 EEST
Reason: MoldSign Signature
Location: Moldova

Object
5216, MOLDOVA, Drochia, s.Drochia (r-l Drochia), r-nul.Drochia s.Drochia

Content

Product data sheets

Street 1 · Alternative 1

Street 2 · Alternative 2

Description

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

Parametrii minimi solicitați pentru iluminatul rutier și pietonal
Pentru drumuri centrale nivel de iluminat Emed -5 lx, Emin – 1 lx (conform datelor din proiect)
Pentru drumuri secundare nivel de iluminat Emed -2 lx, Emin – 0,6 lx (conform datelor din

Drum central
Montaj: unilateral
Distanta intre piloni: -35 m.
Latimea carosabil: 6 m.
Inalțimea pilonului: 7,5-8 m.
Retragerea stilp: 2 m.
Înalțimea de montare: 6,2-6,7
Lungimea consolă : 0,5 m.
Unghi de inclinare PL: 0-15 gr.
Factor de menținere: 0,85

Drum secundar
Montaj: unilateral
Distanta intre piloni: -35 m.
Latimea carosabil : 4 m.
Inalțimea pilonului: 7,5-8 m.
Retragerea stilp: 0,5 1 m.
Înalțimea de montare: 6,2-6,7
Lungimea consolă : 0,5 m.
Unghi de inclinare PL: 0-15 gr.
Factor de menținere: 0,85

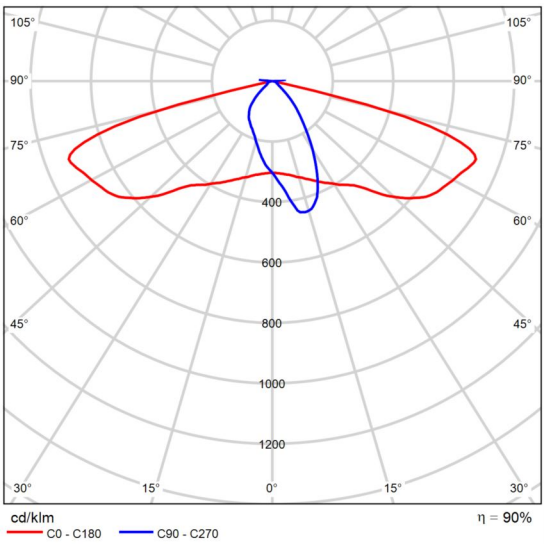
Product data sheet

SCHREDER VOLTANA 0

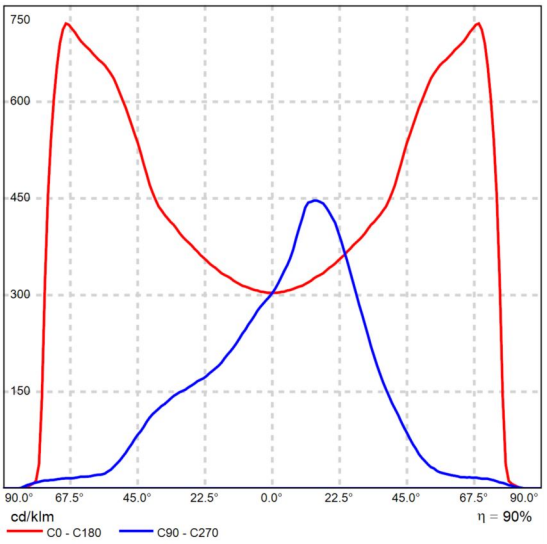
Schréder

Article No.	VOLTANA 0 5205 6 LH351C@700mA NW 740 230V 01-50-731

P	15.3 W
Φ_{Lamp}	2104 lm
$\Phi_{Luminaire}$	1884 lm
η	89.52 %
Luminous efficacy	123.1 lm/W
CCT	3000 K
CRI	100



Polar LDC



Linear LDC

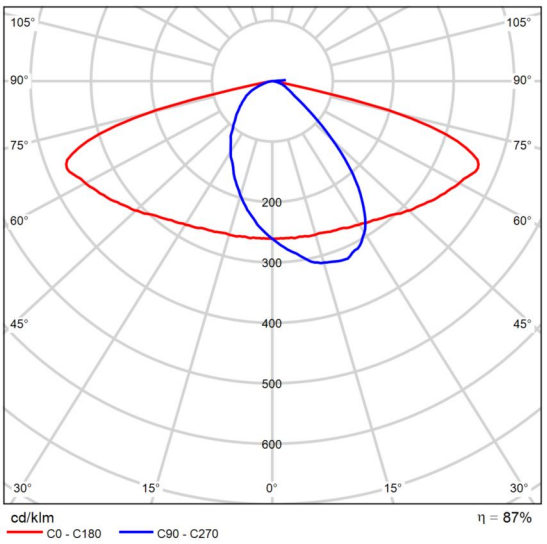
DIALux

Product data sheet

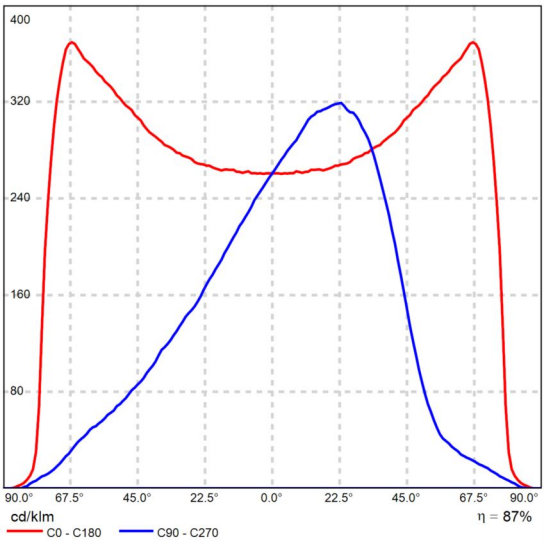
SCHREDER VOLTANA 0

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



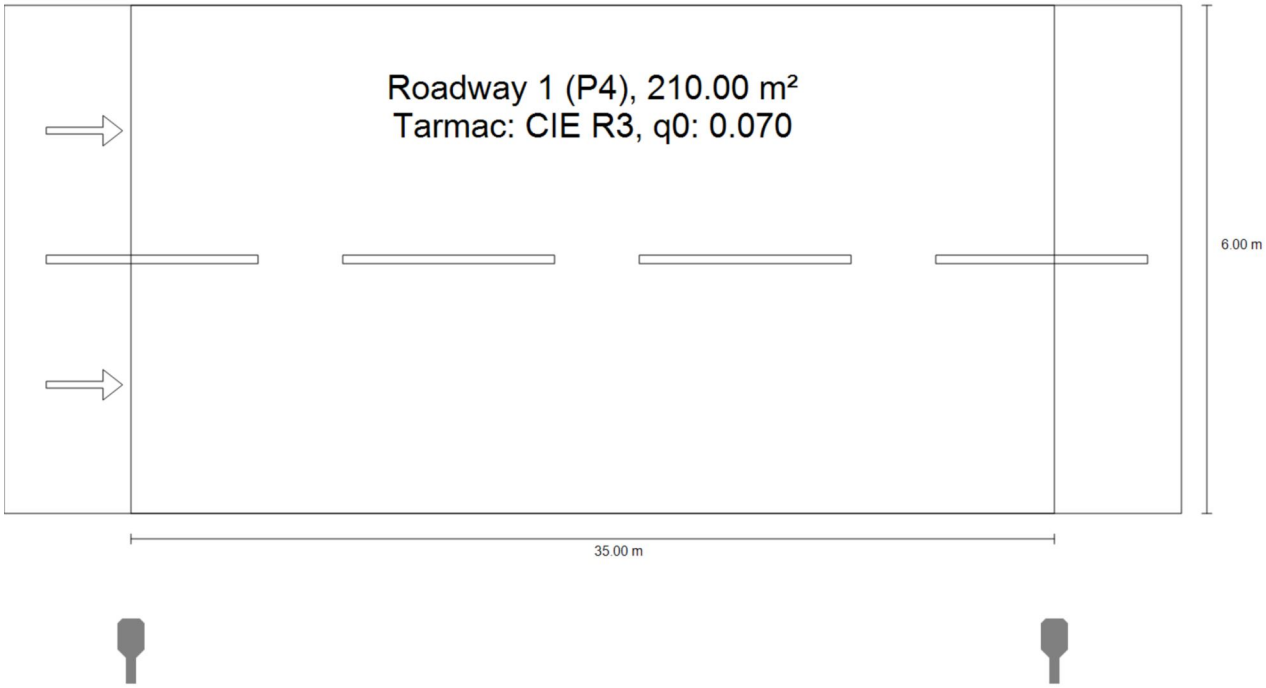
Polar LDC



Linear LDC

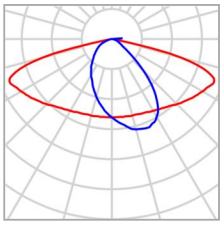
Street 1

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

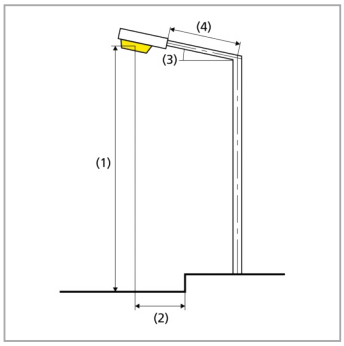
P	29.3 W
Φ_{Lamp}	3860 lm
$\Phi_{Luminaire}$	3353 lm
η	86.88 %

DIALux

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)	TI	16 %	≤ 30 %	✓
	E_{av}(2)	6.04 lx	[6.00 - 9.00] lx	✓
	E_{min}	1.81 lx	≥ 1.00 lx	✓

(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

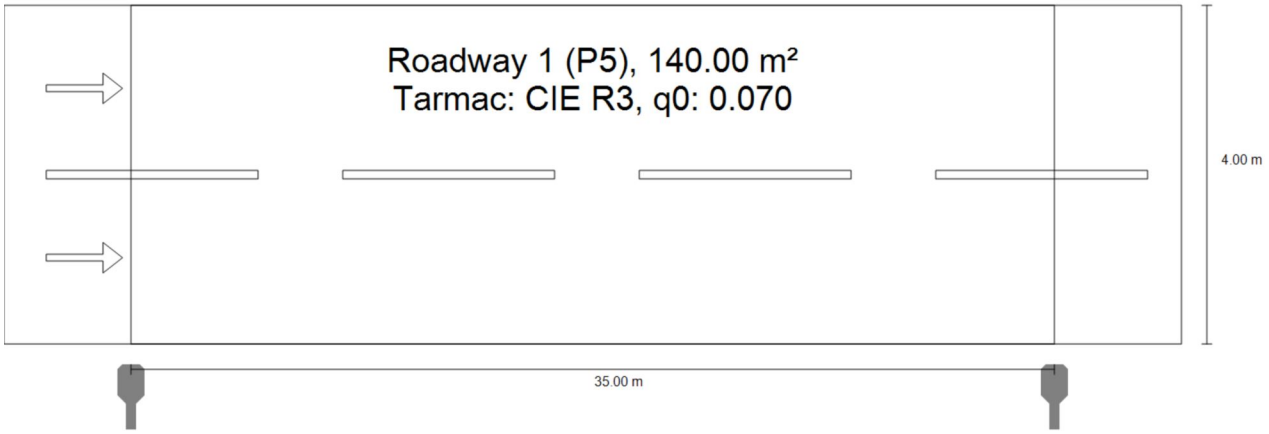
Summary (according to EN 13201:2015)

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Street 1	D_p	0.023 W/lx*m²	-
VOLTANA 0 (single side bottom)	D_e	0.6 kWh/m² yr,	117.2 kWh/yr

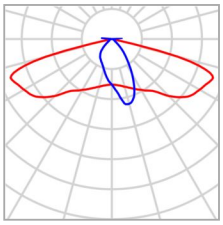
Street 2

Summary (according to EN 13201:2015)



Street 2

Summary (according to EN 13201:2015)



Manufacturer	SCHREDER
Article No.	VOLTANA 0 5205 6 LH351C@700mA NW 740 230V 01-50-731
Article name	VOLTANA 0
Fitting	1x 6 LH351C@700mA NW 740 230V 01-50-731 [CJO!SCSTDA], valid from 21/02/2019

P	15.3 W
Φ_{Lamp}	2104 lm
$\Phi_{Luminaire}$	1884 lm
η	89.52 %

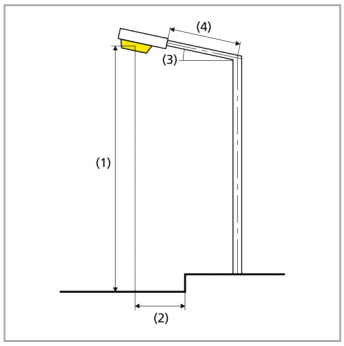
DIALux

Street 2

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	-0.500 m
(3) Boom inclination	0.0°
(4) Boom length	0.500 m
Annual operating hours	4000 h: 100.0 %, 15.3 W
Consumption	443.7 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°: 842 cd/klm ≥ 80°: 10.6 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 (P5)	TI	17 %	≤ 30 %	✓
	E_{av}(2)	5.46 lx	[4.00 - 6.00] lx	✓
	E_{min}	0.94 lx	≥ 0.60 lx	✓

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

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

Street 2

Summary (according to EN 13201:2015)

Results for energy efficiency indicators

	Symbol	Calculated	Consumption
Street 2	D_p	0.020 W/lx*m²	-
VOLTANA 0 (single side bottom)	D_e	0.4 kWh/m² yr,	61.2 kWh/yr