

Date:
2016.06.29.

Loka magistrāle, Jelgava, iela

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Loka magistrāle, Jelgava, iela

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 Road scheme 1

 Road scheme 1

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 Roadway 1 (ME3c)

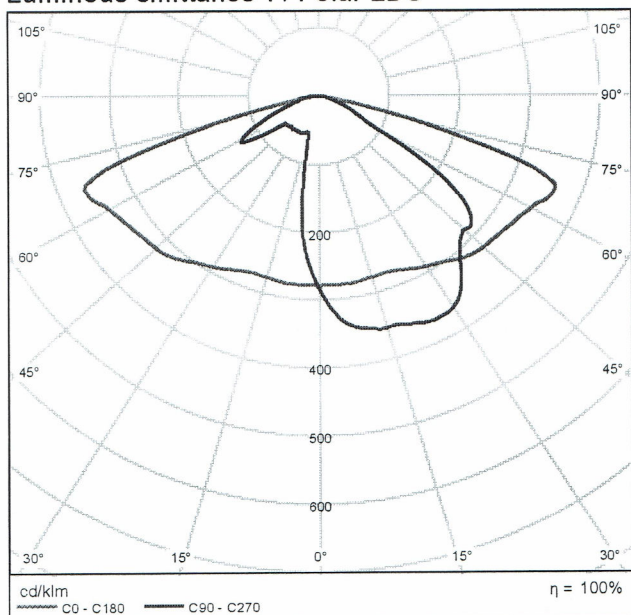
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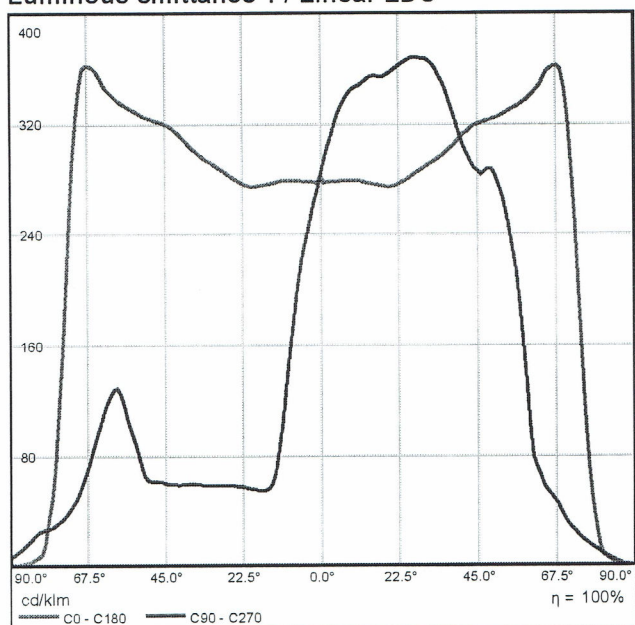
**ZPSO ROSA 222539/3/T3 Ursa 120W 3500K T3 1xCree XP-L 120W 3500K /
Luminaire data sheet (1xCree XP-L 120W 3500K)**

See our luminaire
catalog for an image of
the luminaire.

Light output ratio: 99.99%
Lamp luminous flux: 14950 lm
Luminaire Luminous Flux: 14948 lm
Power: 129.0 W
Light yield: 115.9 lm/W

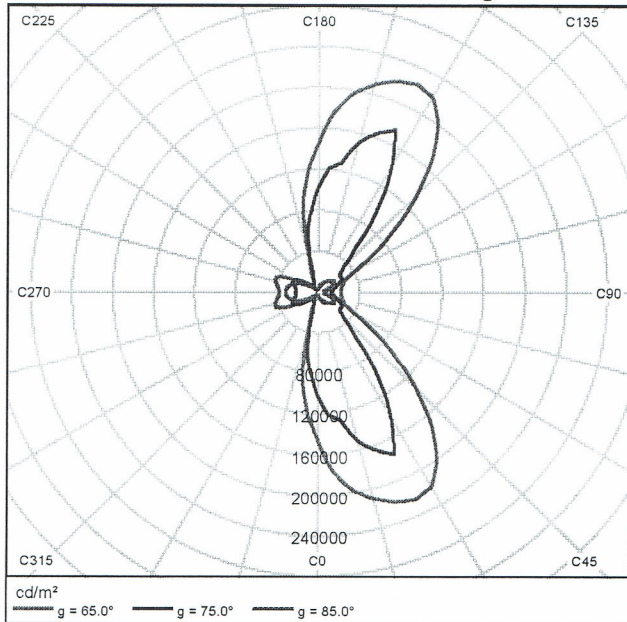
Luminous emittance 1 / Polar LDC

Luminous emittance 1 / Linear LDC



It is not possible to generate a cone diagram, as the light distribution is asymmetrical.

Luminous emittance 1 / Luminance diagram

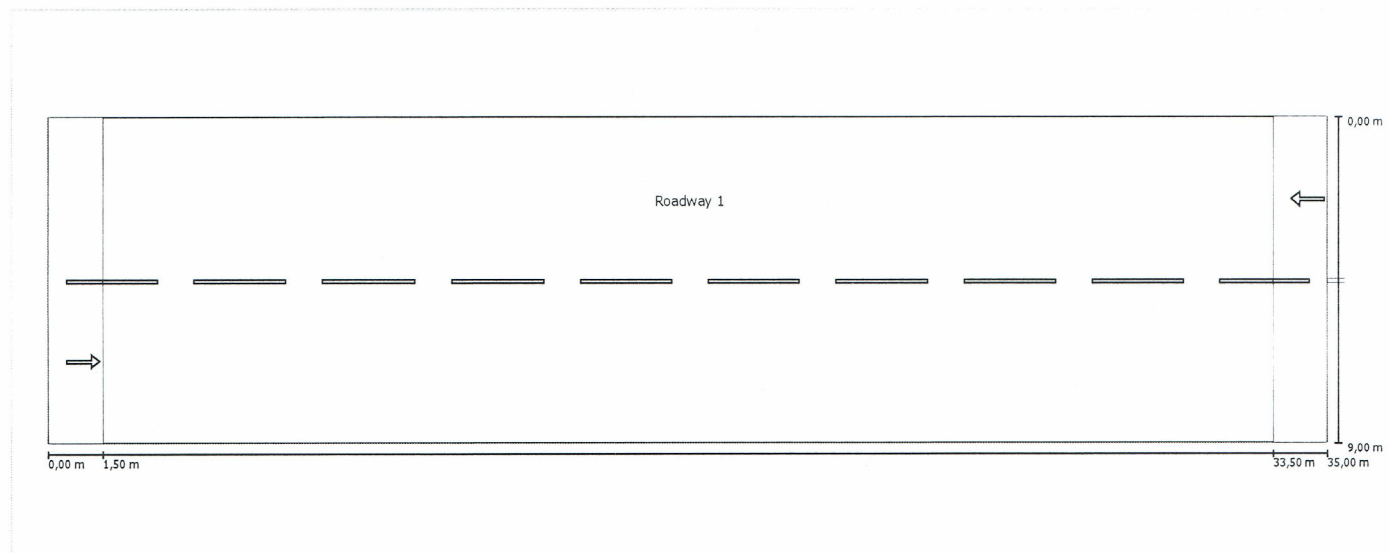


It is not possible to generate a UGR diagram, as the light distribution is asymmetrical.

Road scheme 1 / Planning data

Planning in acc. with EN 13201

Street Profile



Scale: 1 : 100

Roadway 1

Width: 9.000 m

Number of Lanes: 2

Surface (dry): CIE R3

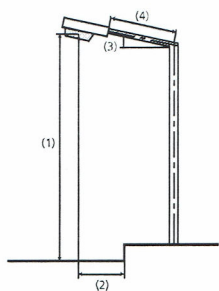
q0 (dry): 0.070

Surface (wet): Wet surface W3

q0 (wet): 0.200

Maintenance factor: 0.67

Luminaire Arrangements



Luminaire:	ZPSO ROSA 222539/3/T3 Ursa 120W 3500K T3
Luminous flux (luminaire):	14948.16 lm
Luminous flux (lamp):	14950.00 lm
Luminaire Wattage:	129.0 W
Arrangement:	single side bottom
Pole Distance:	32.000 m
Boom inclination (3):	5.0 °
Boom length (4):	0.000 m
Light centre height (1):	10.000 m
Light overhang (2):	-1.000 m

ULR: 0.00

ULOR: 0.00

W/km: 3999.00

Maximum luminous intensities

at 70°: 575 cd/klm

at 80°: 110 cd/klm

at 90°: 7.14 cd/klm

Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

Arrangement complies with glare index class D.6

Roadway 1 (ME3c) / Results summary

Maintenance factor: 0.67

Grid: 11 x 6 Points

Selected Lighting Class: ME3c

Accompanying Street Elements:

Roadway 1

Width: 9.000 m

Number of Lanes: 2

Surface (dry): CIE R3

q0 (dry): 0.070

Surface (wet): Wet surface W3

q0 (wet): 0.200

	Lm [cd/m²]	U0	UI	TI [%]	SR
Actual value according to calculation	1.00	0.49	0.88	10	0.53
Required values according to class	≥ 1.00	≥ 0.40	≥ 0.50	≤ 15	≥ 0.50
Fulfilled/Not fulfilled	✓	✓	✓	✓	✓

Assigned Observer (2):

Observer	Position [m]	Lm [cd/m²]	U0	UI	TI [%]
Observer 1	(-60, 2,25, 1,5)	1.00	0.52	0.90	10
Observer 2	(-60, 6,75, 1,5)	1.11	0.49	0.88	7

Roadway 1 (ME3c) / Isolines

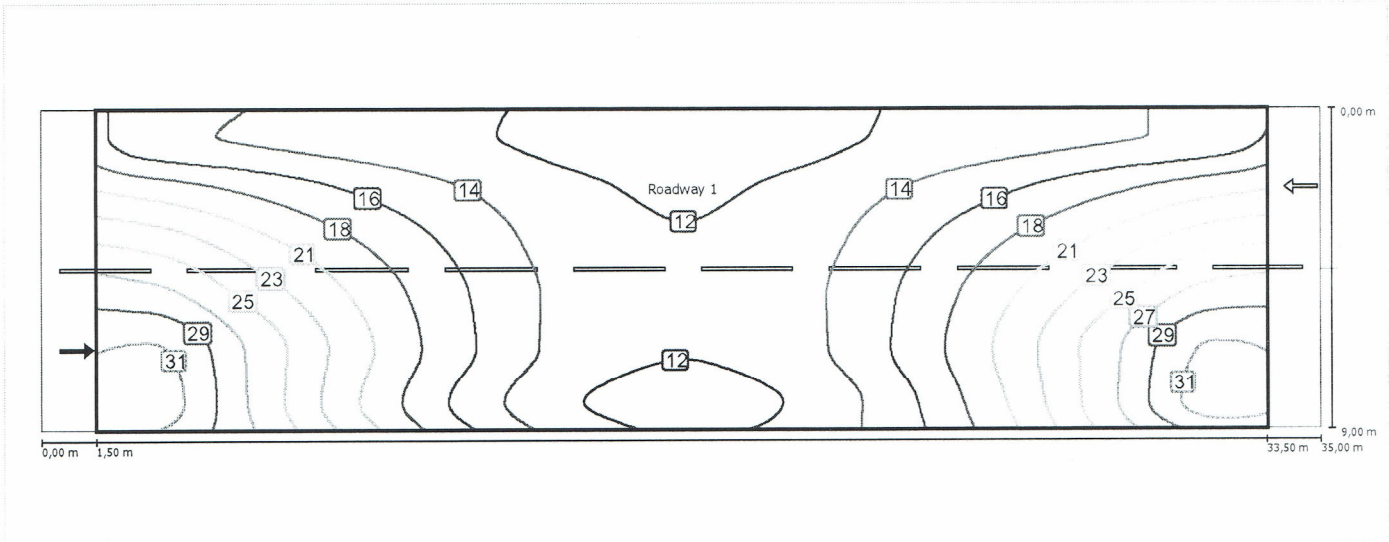
Maintenance factor: 0.67
Grid: 11 x 6 Points
Selected Lighting Class: ME3c
Accompanying Street Elements:

Roadway 1

Width: 9.000 m
Number of Lanes: 2
Surface (dry): CIE R3
q0 (dry): 0.070
Surface (wet): Wet surface W3
q0 (wet): 0.200

	Lm [cd/m²]	U0	UI	TI [%]	SR
Actual value according to calculation	1.00	0.49	0.88	10	0.53
Required values according to class	≥ 1.00	≥ 0.40	≥ 0.50	≤ 15	≥ 0.50
Fulfilled/Not fulfilled	✓	✓	✓	✓	✓

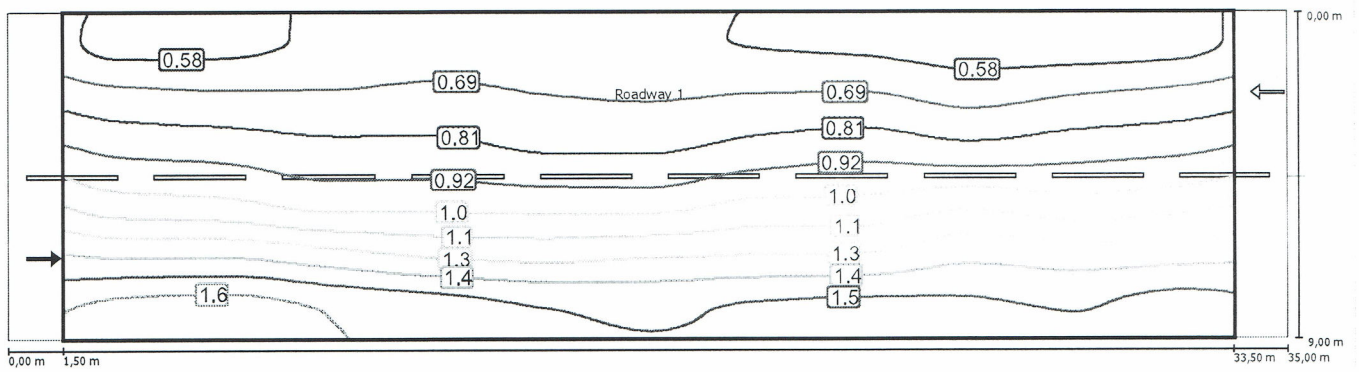
Horizontal illuminance



Scale: 1 : 200

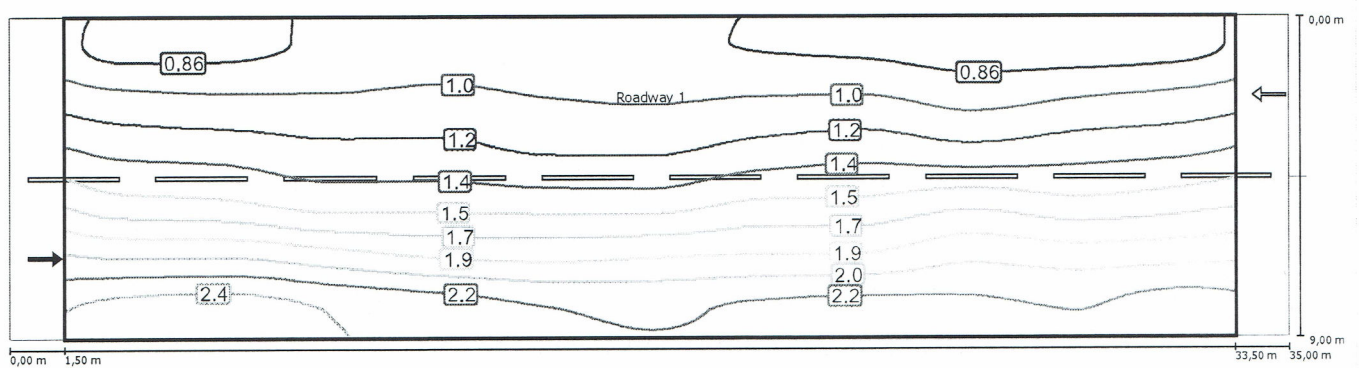
Observer 1

Luminance with dry roadway



Scale: 1 : 200

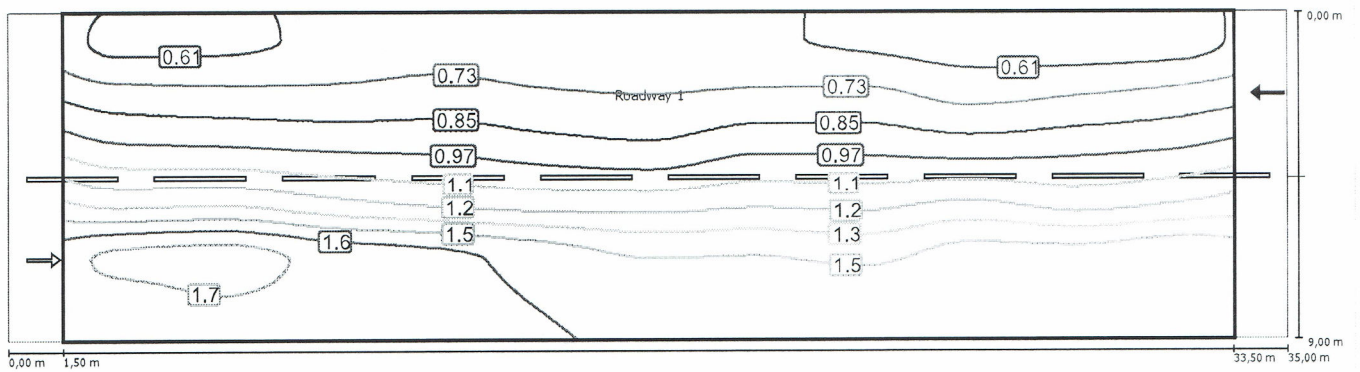
Luminance with new lamp



Scale: 1 : 200

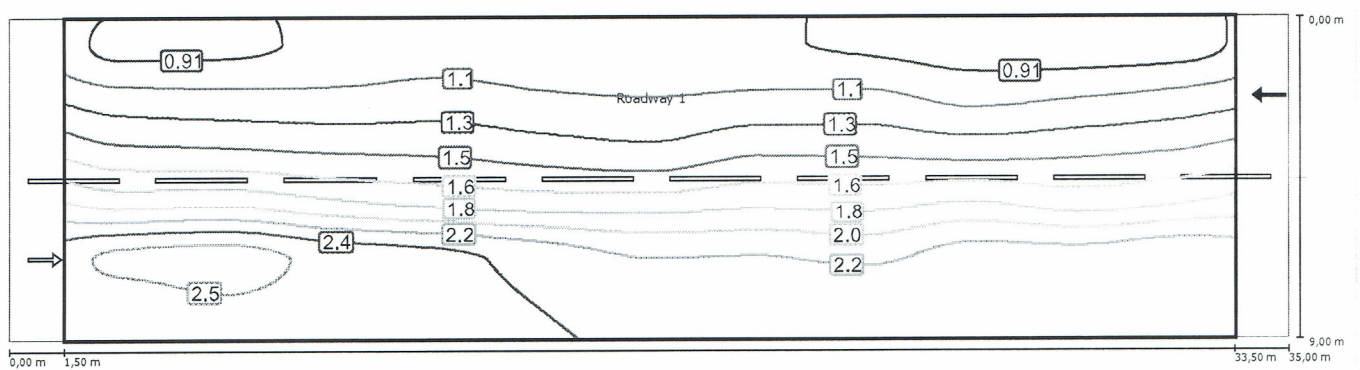
Observer 2

Luminance with dry roadway



Scale: 1 : 200

Luminance with new lamp



Scale: 1 : 200

Date:
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Loka magistrale, celins

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Road scheme 1

 Road scheme 1

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 Sidewalk 1 (A1)

 Results summary..... 7

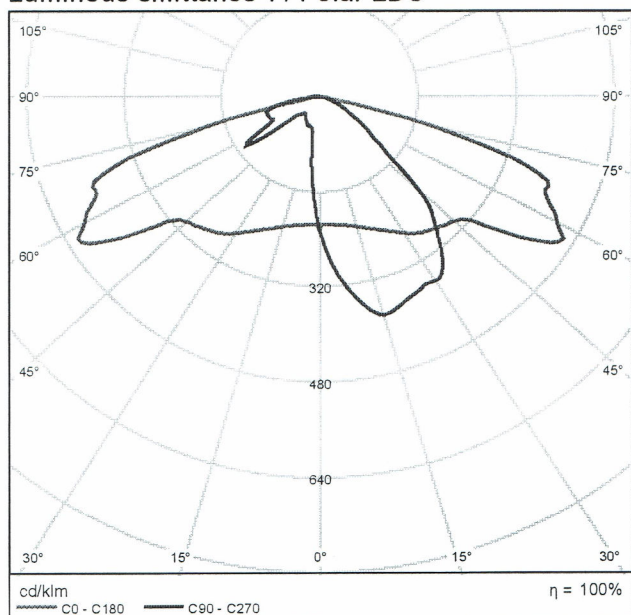
 Table..... 8

 Isolines..... 9

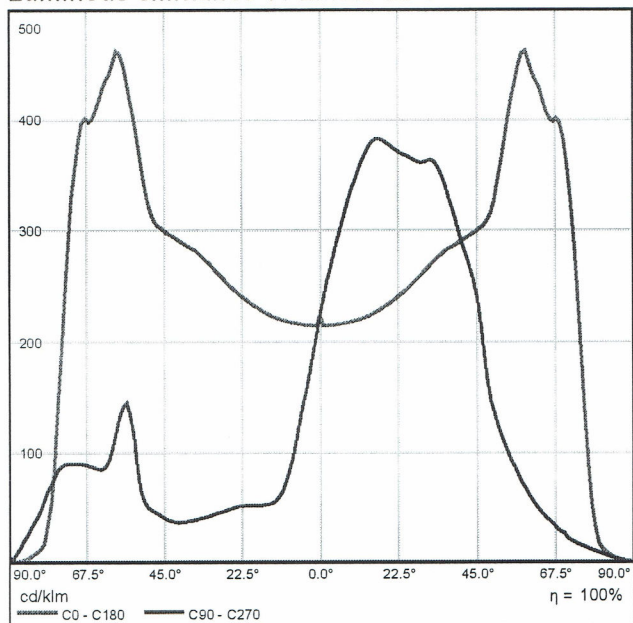
**ZPSO ROSA 213232/3 Iskra LED 36W 3500K 1xCree XP-L Iskra 36W 3500 /
Luminaire data sheet (1xCree XP-L Iskra 36W 3500)**

See our luminaire
catalog for an image of
the luminaire.

Light output ratio: 100%
Lamp luminous flux: 4300 lm
Luminaire Luminous Flux: 4300 lm
Power: 39.0 W
Light yield: 110.2 lm/W

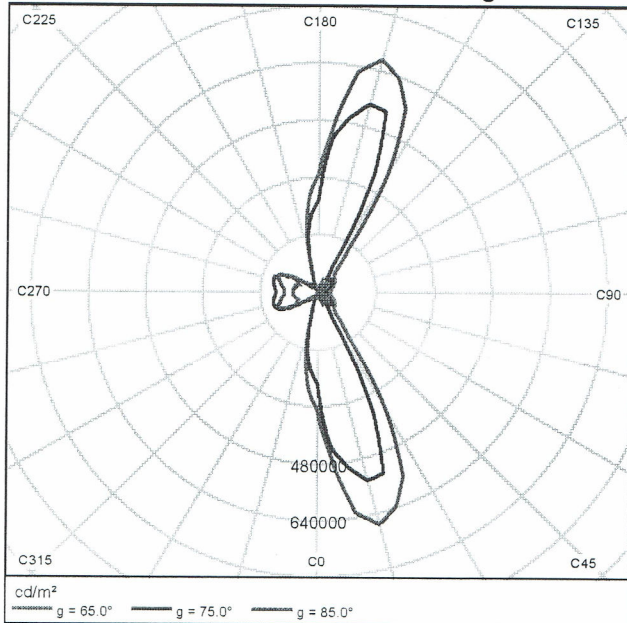
Luminous emittance 1 / Polar LDC

Luminous emittance 1 / Linear LDC



It is not possible to generate a cone diagram, as the light distribution is asymmetrical.

Luminous emittance 1 / Luminance diagram

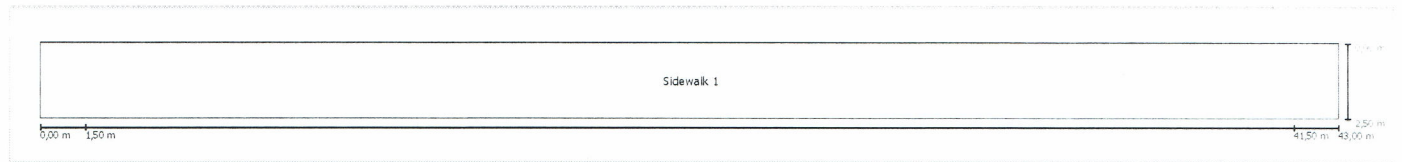


It is not possible to generate a UGR diagram, as the light distribution is asymmetrical.

Road scheme 1 / Planning data

Planning in acc. with EN 13201

Street Profile



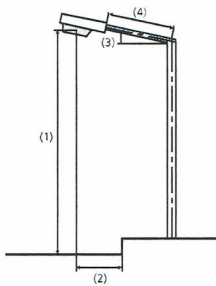
Scale: 1 : 100

Sidewalk 1

Width: 2.500 m

Maintenance factor: 0.67

Luminaire Arrangements



Luminaire:	ZPSO ROSA 213232/3 Iskra LED 36W 3500K
Luminous flux (luminaire):	4299.58 lm
Luminous flux (lamp):	4300.00 lm
Luminaire Wattage:	39.0 W
Arrangement:	single side bottom
Pole Distance:	40.000 m
Boom inclination (3):	5.0 °
Boom length (4):	0.000 m
Light centre height (1):	5.500 m
Light overhang (2):	0.000 m

ULR:	0.00
ULOR:	0.00
W/km:	975.00
Maximum luminous intensities	
at 70°:	841 cd/klm
at 80°:	134 cd/klm
at 90°:	5.65 cd/klm

Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.
Arrangement complies with glare index class D.5

Sidewalk 1 (A1) / Results summary

Maintenance factor: 0.67
Grid: 14 x 3 Points
Selected Lighting Class: A1
Accompanying Street Elements:

Sidewalk 1

Width: 2.500 m

	Em (hs) [lx]	U0 (hs) [lx]
Actual value according to calculation	5.70	0.16
Required values according to class	≥ 5.00	≥ 0.15
Fulfilled/Not fulfilled	✓	✓

Sidewalk 1 (A1) / Table

Semi-spherical illuminance [lx]

2.083	15	11	8.31	5.77	3.43	2.32	1.66	1.67	2.32	3.44	5.77	8.31	11	15
1.250	14	10	6.82	4.55	2.75	1.83	1.24	1.20	1.87	2.75	4.54	6.82	10	14
0.417	9.80	7.52	5.37	3.58	2.07	1.33	0.89	0.89	1.32	2.06	3.57	5.36	7.51	9.76
m	1.429	4.286	7.143	10.000	12.857	15.714	18.571	21.429	24.286	27.143	30.000	32.857	35.714	38.571

Grid: 14 x 3 Points

EAvg [lx]	EMin [lx]	EMax [lx]	g1	g2
5.70	0.89	15	0.156	0.059

Sidewalk 1 (A1) / Isolines

Maintenance factor: 0.67

Grid: 14 x 3 Points

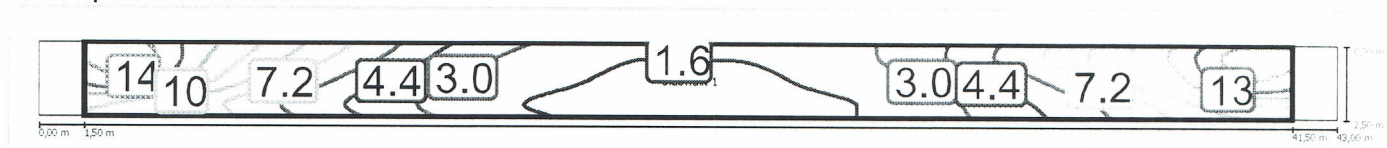
Selected Lighting Class: A1

Accompanying Street Elements:

Sidewalk 1

Width: 2.500 m

	Em (hs) [lx]	U0 (hs) [lx]
Actual value according to calculation	5.70	0.16
Required values according to class	≥ 5.00	≥ 0.15
Fulfilled/Not fulfilled	✓	✓

Semi-spherical illuminance

Scale: 1 : 500