

Apgaimsojuma aprēķins "Brīvības iela, Ventspils"

Apgaismojuma aprēķinā nav ietverti koki

Pasūtītājs: Ventspils Brīvostas pārvalde
Izpildītājs: SIA "Projekts3"

Date: 28.01.2015
Operator: Mārtiņš Rozentāls

SIA "Projekts3"

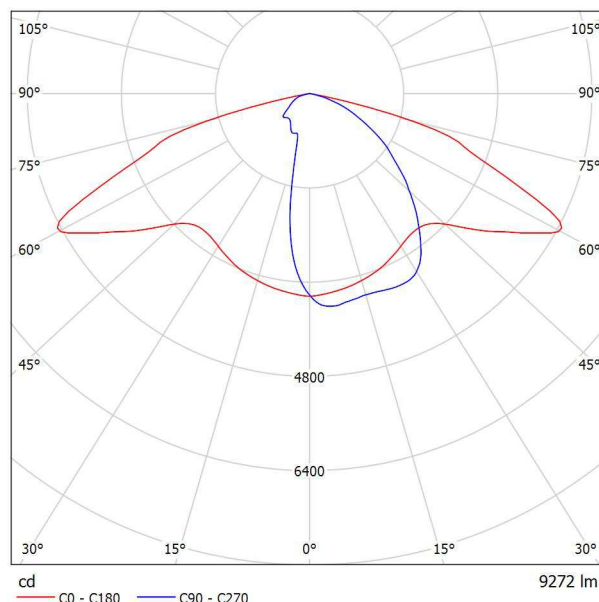
Ūdens iela 12 - 117, Rīga

Operator Mārtiņš Rozentāls
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e-Mail martins.rozentals@projekts3.lv

SR 092 30 02 01 3 S N ND VIZULO STORK 92W DWC 3000K / Luminaire Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 100
CIE flux code: 40 74 97 100 100

Due to missing symmetry properties, no UGR table can be displayed for this luminaire.

BRAUKTUVE

Stork LED 92W, gaismas krāsa 3000k; IP66; IK08, alumīnija korpuss, pārsprieguma aizsardzība līdz 10kV; Sertifikāti: CE, RoHS, ENEC; Vai analogs
Gaismekļa leņķis pret brauktuvi - 5grādi

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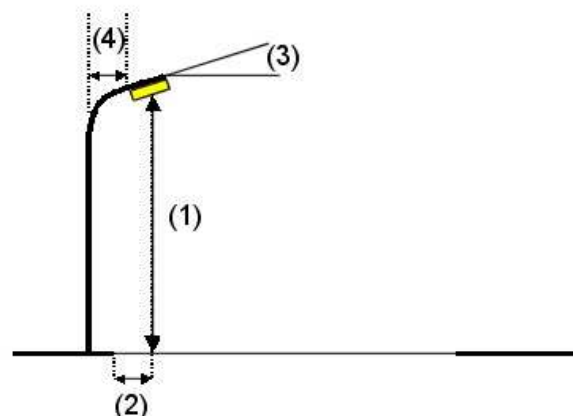
Brīvības iela / Planning data

Street Profile

Velo Kreisā puse	(Width: 2.500 m)
zāle_Keisā puse	(Width: 4.500 m)
brauktuve	(Width: 7.000 m, Number of lanes: 2, tarmac: R3, q0: 0.070)
Zāle Labā puse	(Width: 7.500 m)
ietve Labā puse	(Width: 1.500 m)

Light loss factor: 0.67

Luminaire Arrangements



Luminaire:	SR 092 30 02 01 3 S N ND VIZULO STORK 92W DWC 3000K
Luminous flux (Luminaire):	9272 lm
Luminous flux (Lamps):	9272 lm
Luminaire Wattage:	92.0 W
Arrangement:	Single row, top
Pole Distance:	30.000 m
Mounting Height (1):	10.000 m
Height:	9.953 m
Overhang (2):	-1.129 m
Boom Angle (3):	5.0 °
Boom Length (4):	1.500 m

Maximum luminous intensities

at 70°:	448 cd/klm
at 80°:	109 cd/klm
at 90°:	2.93 cd/klm

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

Arrangement complies with luminous intensity class G2.

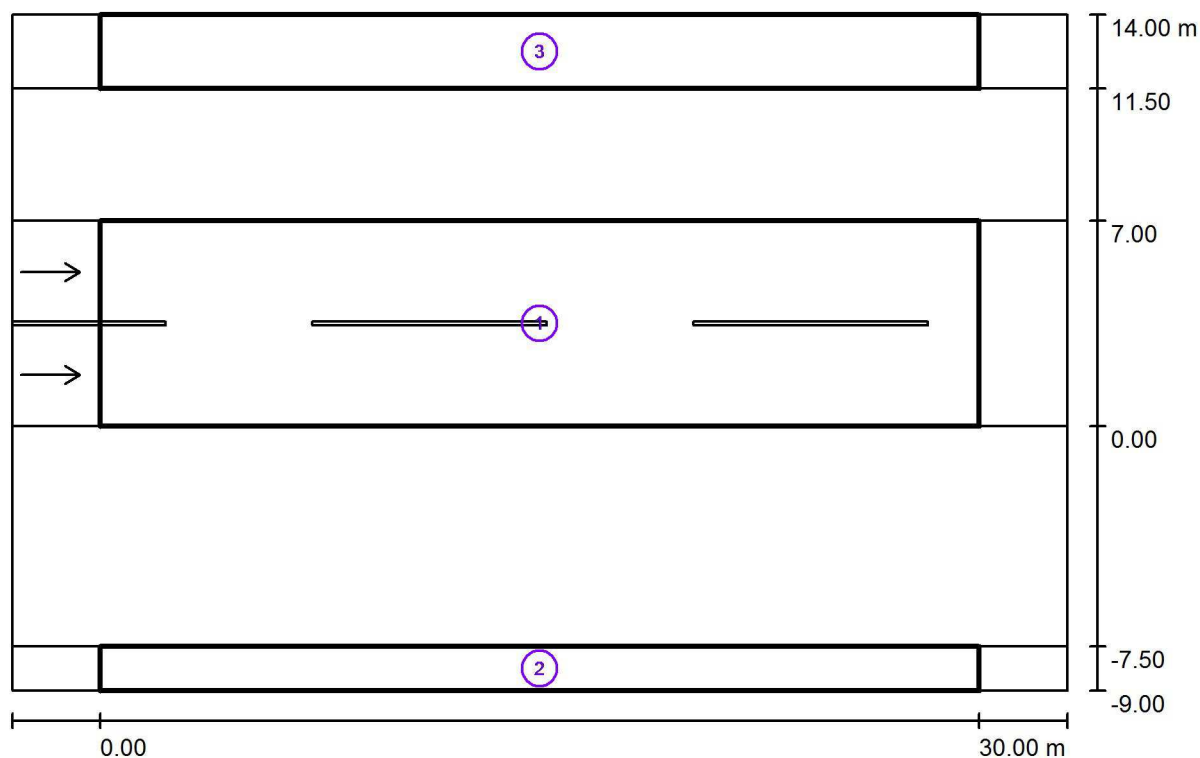
Arrangement complies with glare index class D.6.

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Brīvības iela / Photometric Results



Light loss factor: 0.67

Scale 1:258

Calculation Field List

- 1 brauktuve
Length: 30.000 m, Width: 7.000 m
Grid: 10 x 6 Points
Accompanying Street Elements: brauktuve.
tarmac: R3, q0: 0.070
Selected Lighting Class: ME5

(All lighting performance requirements are met.)

	L_{av} [cd/m ²]	U0	UI	TI [%]	SR
Calculated values:	0.73	0.51	0.77	6	0.68
Required values according to class:	≥ 0.50	≥ 0.35	≥ 0.40	≤ 15	≥ 0.50
Fulfilled/Not fulfilled:	✓	✓	✓	✓	✓

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Brīvības iela / Photometric Results

Calculation Field List

2 ietve Labā puse

Length: 30.000 m, Width: 1.500 m

Grid: 10 x 3 Points

Accompanying Street Elements: ietve Labā puse.

Selected Lighting Class: S6

Additional ES Lighting Class: ES9

(All lighting performance requirements are met.)

(Not all lighting performance requirements are met.)

	E_{av} [lx]	E_{min} [lx]	E_{min} (semi-cyl.) [lx]
Calculated values:	2.25	1.74	0.87
Required values according to class:	≥ 2.00	≥ 0.60	≥ 0.50
Fulfilled/Not fulfilled:	✓	✓	✓

3 Velo Kreisā puse

Length: 30.000 m, Width: 2.500 m

Grid: 10 x 3 Points

Accompanying Street Elements: Velo Kreisā puse.

Selected Lighting Class: S6

Additional ES Lighting Class: ES9

(All lighting performance requirements are met.)

(Not all lighting performance requirements are met.)

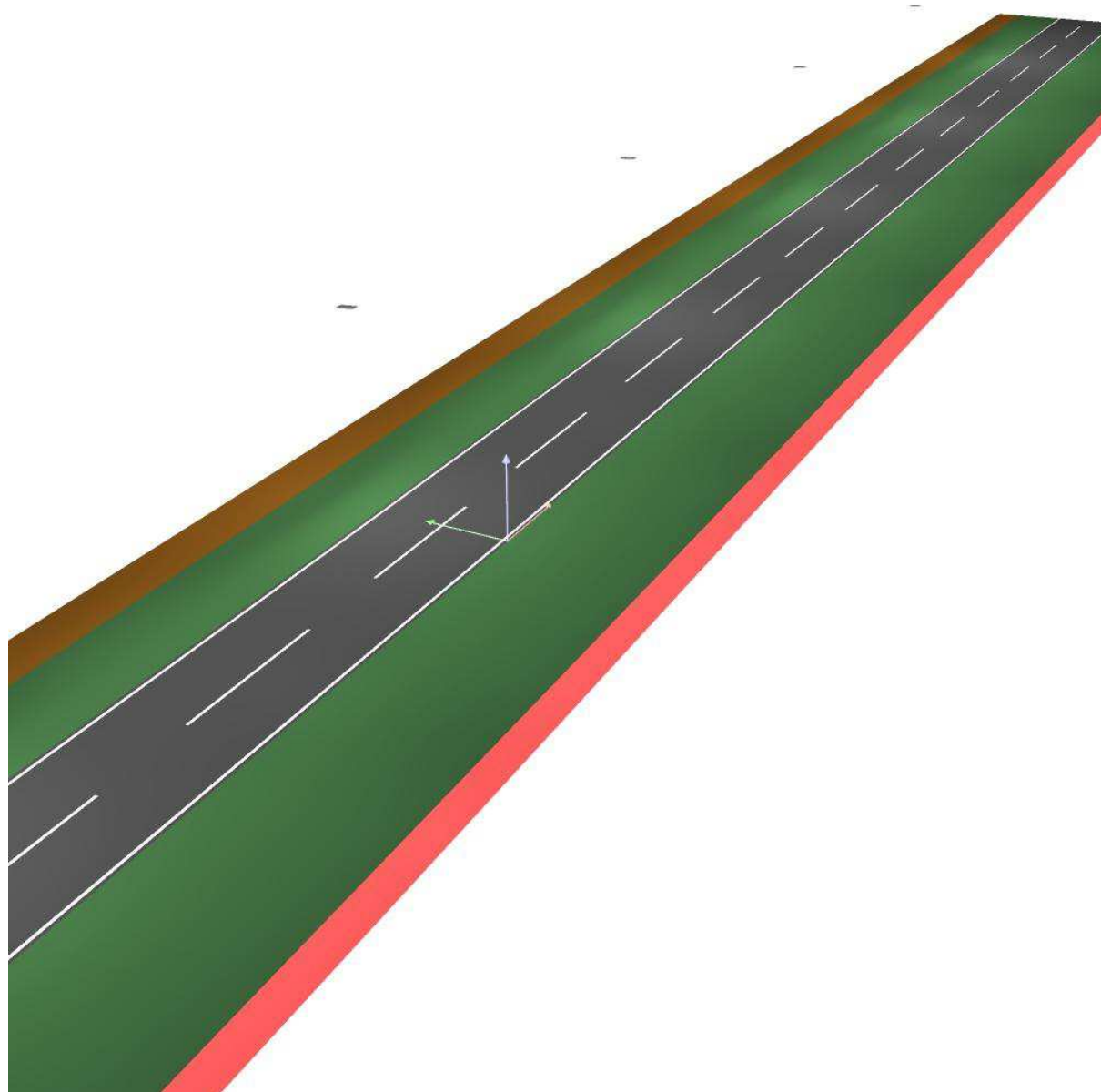
	E_{av} [lx]	E_{min} [lx]	E_{min} (semi-cyl.) [lx]
Calculated values:	2.77	1.32	0.75
Required values according to class:	≥ 2.00	≥ 0.60	≥ 0.50
Fulfilled/Not fulfilled:	✓	✓	✓

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Brīvības iela / 3D Rendering

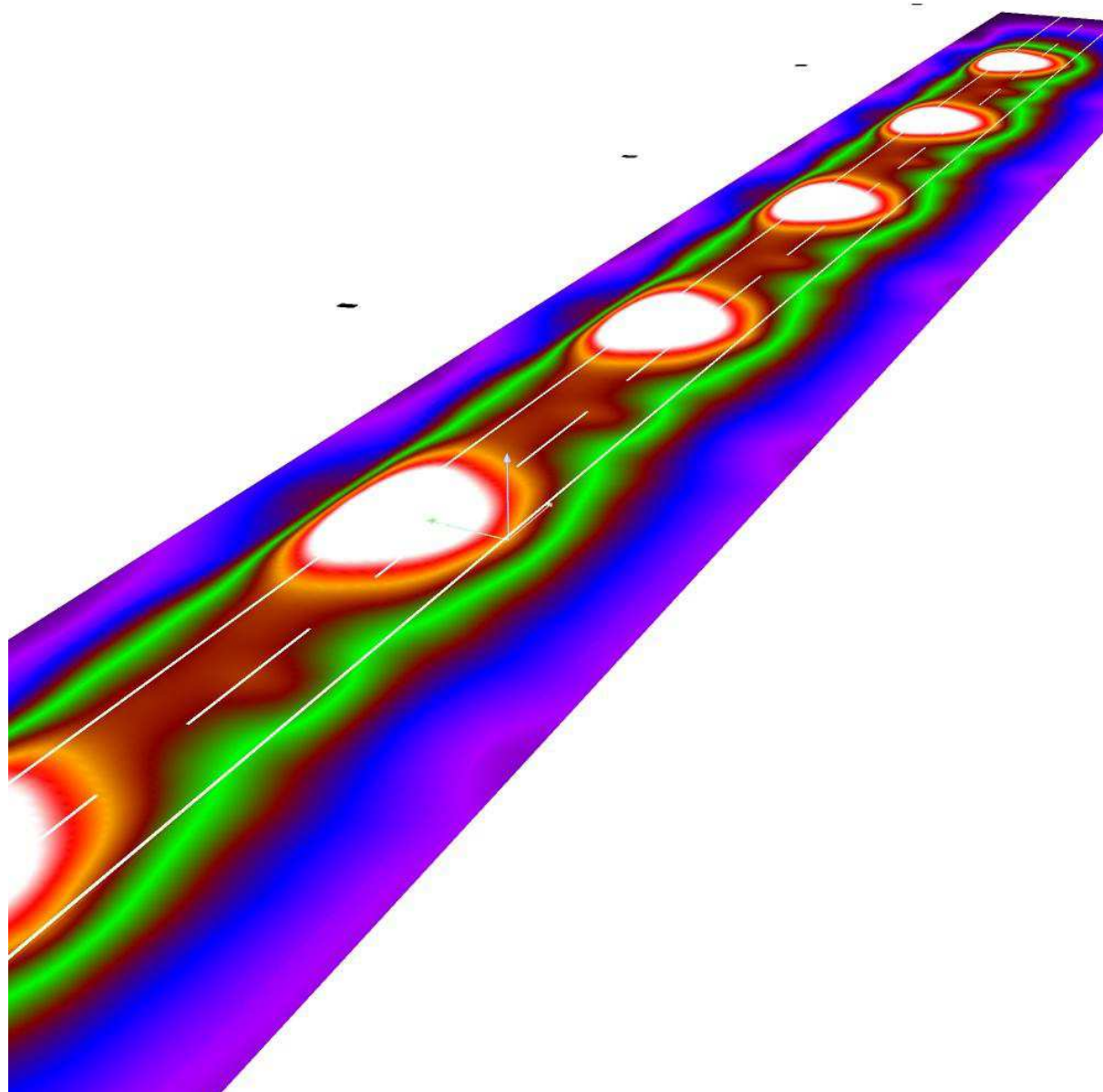


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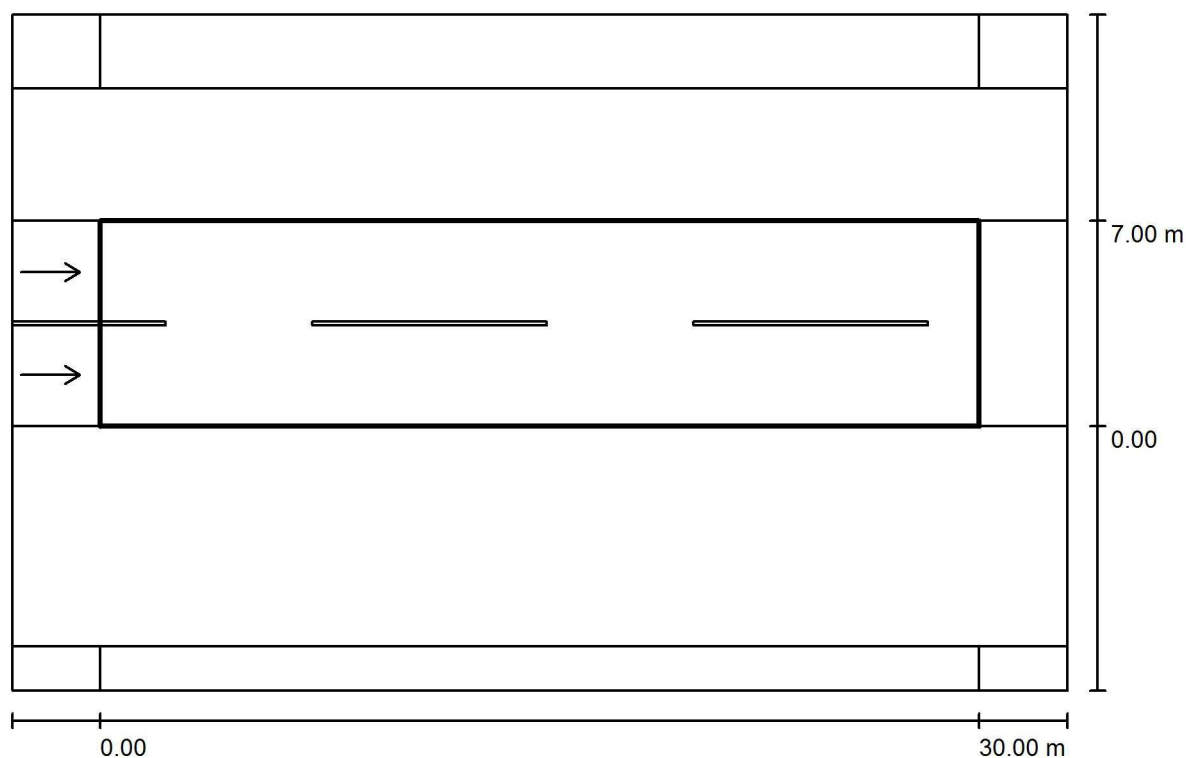
Brīvības iela / False Color Rendering



lx

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Brīvības iela / brauktuve / Results overview

Light loss factor: 0.67

Scale 1:258

Grid: 10 x 6 Points

Accompanying Street Elements: brauktuve.

tarmac: R3, q0: 0.070

Selected Lighting Class: ME5

(All lighting performance requirements are met.)

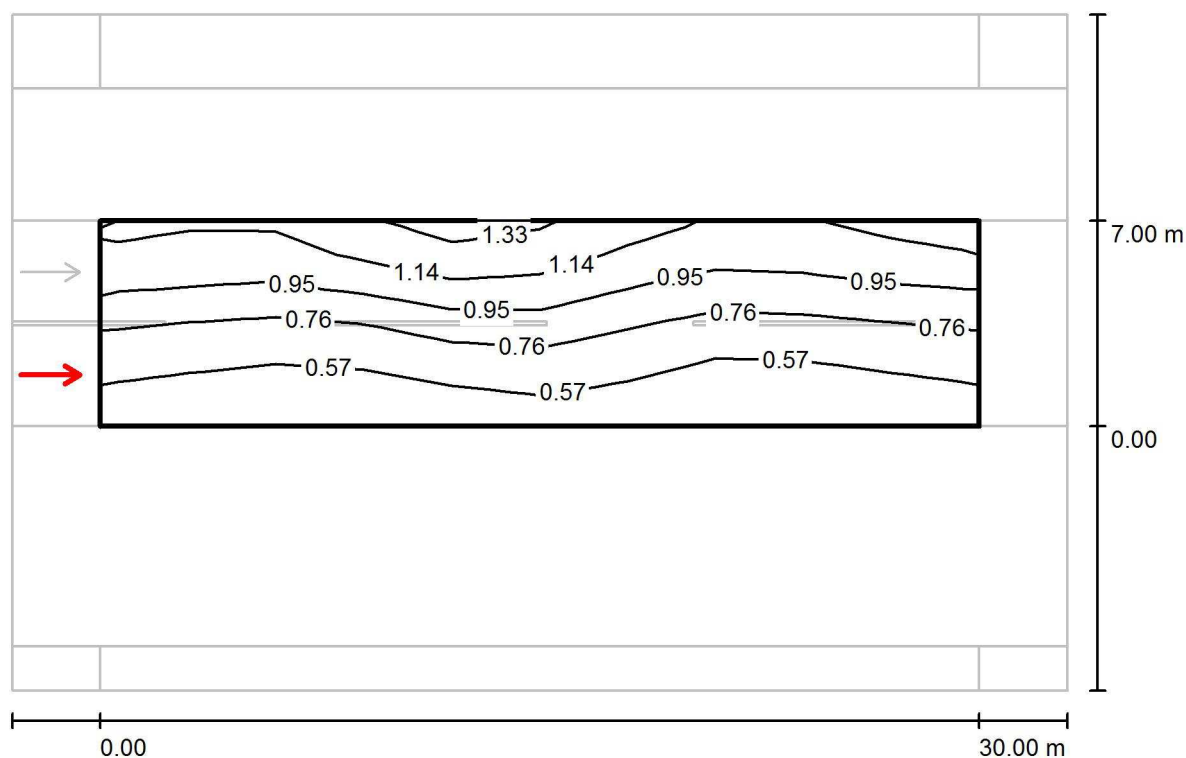
	L_{av} [cd/m ²]	U0	UI	TI [%]	SR
Calculated values:	0.73	0.51	0.77	6	0.68
Required values according to class:	≥ 0.50	≥ 0.35	≥ 0.40	≤ 15	≥ 0.50
Fulfilled/Not fulfilled:	✓	✓	✓	✓	✓

Assigned observer (2 Pieces):

No.	Observer	Position [m]	L_{av} [cd/m ²]	U0	UI	TI [%]
1	Labā josla	(-60.000, 1.750, 1.500)	0.80	0.51	0.77	4
2	Kreisā josla	(-60.000, 5.250, 1.500)	0.73	0.53	0.79	6

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Brīvības iela / brauktuve / Labā josla / Isolines (L)Values in Candela/m², Scale 1 : 258

Grid: 10 x 6 Points

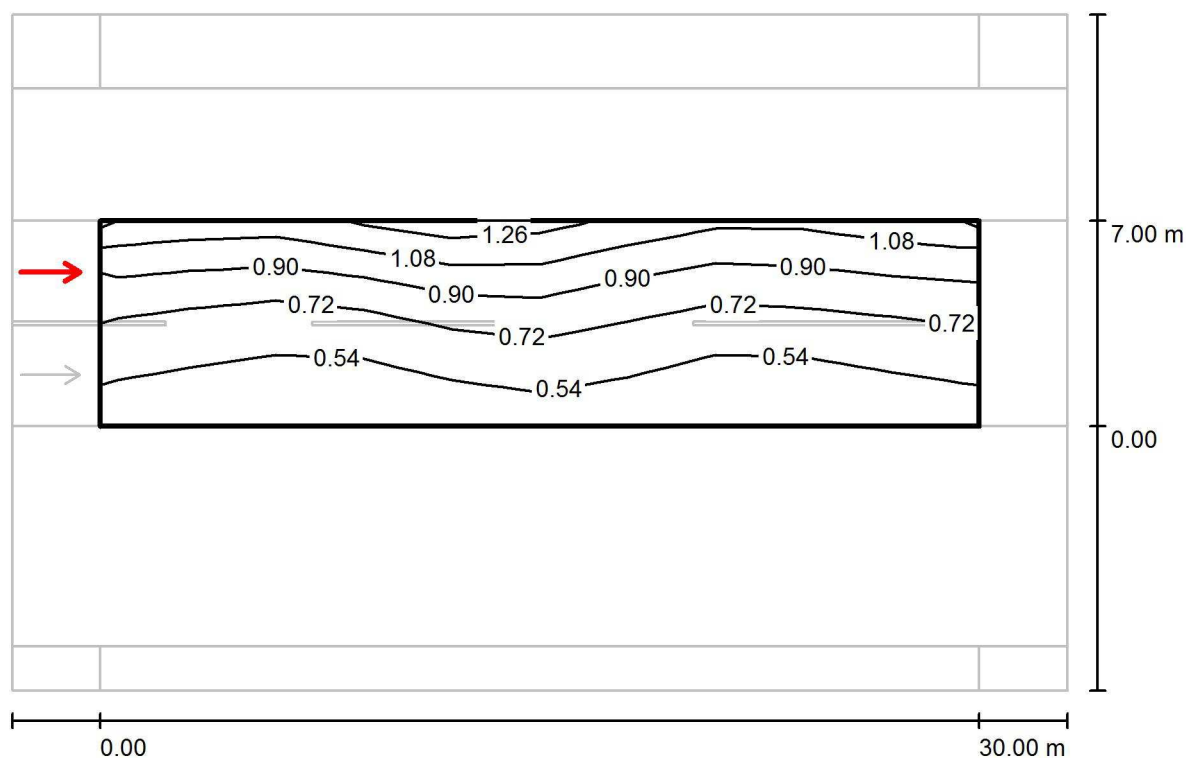
Observer Position: (-60.000 m, 1.750 m, 1.500 m)

tarmac: R3, q0: 0.070

	L_{av} [cd/m ²]	U0	UI	TI [%]
Calculated values:	0.80	0.51	0.77	4
Required values according to class ME5:	≥ 0.50	≥ 0.35	≥ 0.40	≤ 15
Fulfilled/Not fulfilled:	✓	✓	✓	✓

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Brīvības iela / brauktuve / Kreisā josla / Isolines (L)Values in Candela/m², Scale 1 : 258

Grid: 10 x 6 Points

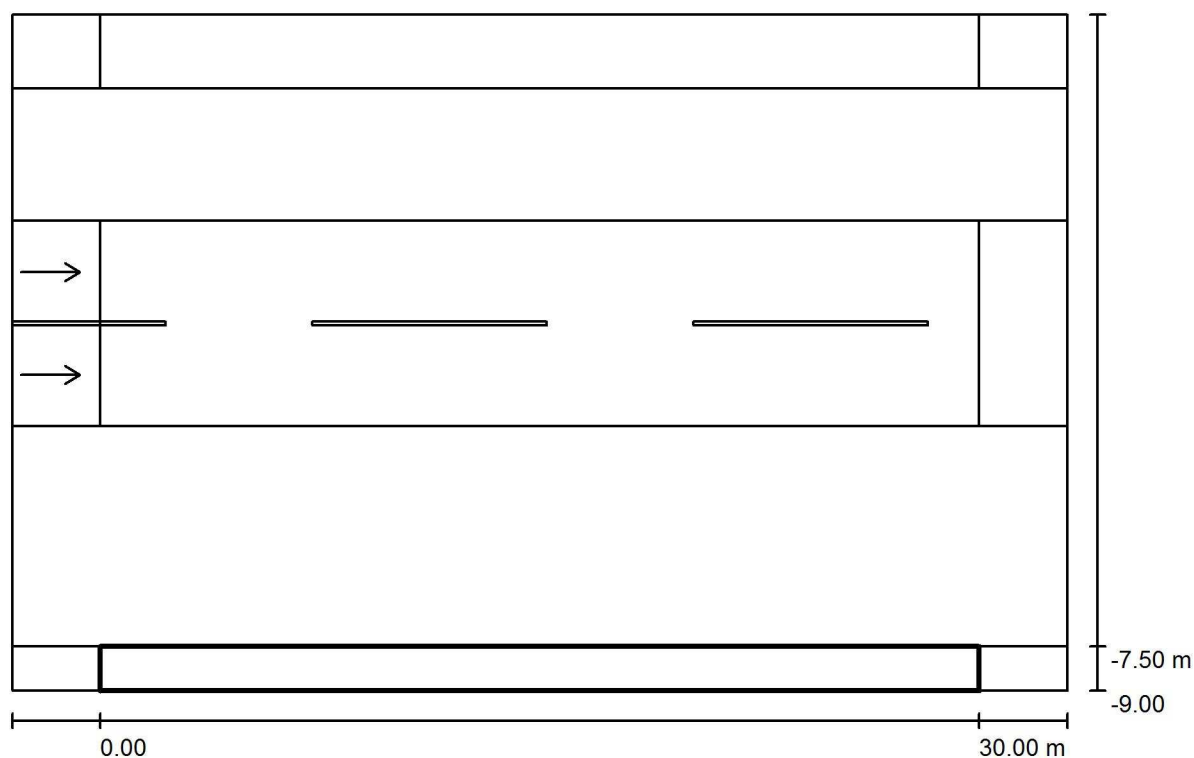
Observer Position: (-60.000 m, 5.250 m, 1.500 m)

tarmac: R3, q0: 0.070

	L_{av} [cd/m ²]	U0	UI	TI [%]
Calculated values:	0.73	0.53	0.79	6
Required values according to class ME5:	≥ 0.50	≥ 0.35	≥ 0.40	≤ 15
Fulfilled/Not fulfilled:	✓	✓	✓	✓

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Brīvības iela / ietve Labā puse / Results overview

Light loss factor: 0.67

Scale 1:258

Grid: 10 x 3 Points

Accompanying Street Elements: ietve Labā puse.

Selected Lighting Class: S6

(All lighting performance requirements are met.)

Additional ES Lighting Class: ES9

(Not all lighting performance requirements are met.)

Calculated values:

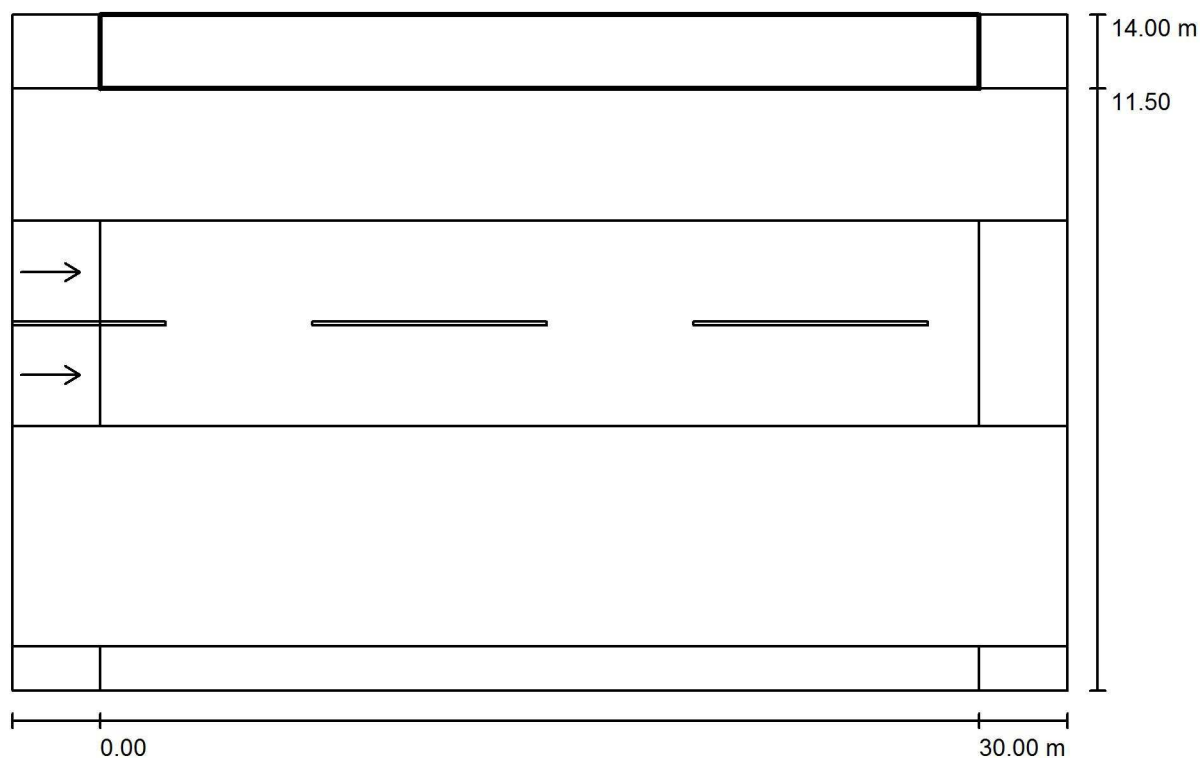
Required values according to class:

Fulfilled/Not fulfilled:

E_{av} [lx]	E_{min} [lx]	E_{min} (semi-cyl.) [lx]
2.25	1.74	0.87
≥ 2.00	≥ 0.60	≥ 0.50
✓	✓	✓

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Brīvības iela / Velo Kreisā puse / Results overview

Light loss factor: 0.67

Scale 1:258

Grid: 10 x 3 Points

Accompanying Street Elements: Velo Kreisā puse.

Selected Lighting Class: S6

(All lighting performance requirements are met.)

Additional ES Lighting Class: ES9

(Not all lighting performance requirements are met.)

	E_{av} [lx]	E_{min} [lx]	E_{min} (semi-cyl.) [lx]
Calculated values:	2.77	1.32	0.75
Required values according to class:	≥ 2.00	≥ 0.60	≥ 0.50
Fulfilled/Not fulfilled:	✓	✓	✓