

## **Apgaimsojuma aprēķins "Lielais prospekts, Ventspils"**

Apgaismojuma aprēķinā nav ietverti koki

Pasūtītājs: Ventspils Brīvostas pārvalde  
Izpildītājs: SIA "Projekts3"

Date: 28.01.2015  
Operator: Mārtiņš Rozentāls

SIA "Projekts3"

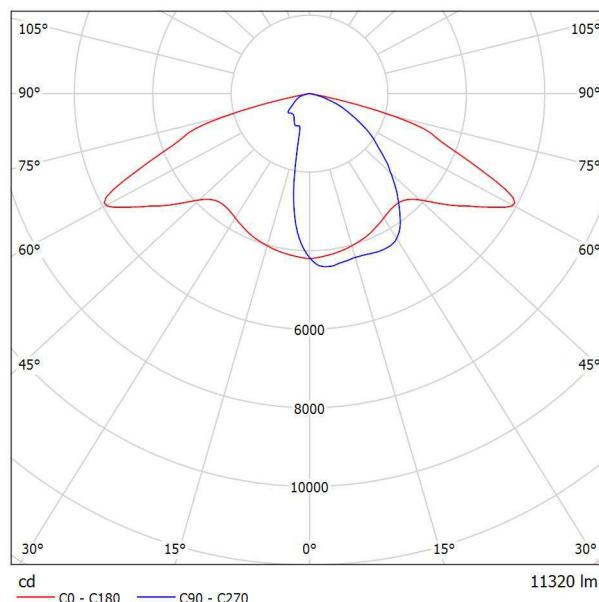
Ūdens iela 12 - 117, Rīga

Operator Mārtiņš Rozentāls  
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Fax 67692601  
e-Mail martins.rozentals@projekts3.lv

## SR 112 30 02 01 3 S N ND VIZULO STORK 112W 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 112W, 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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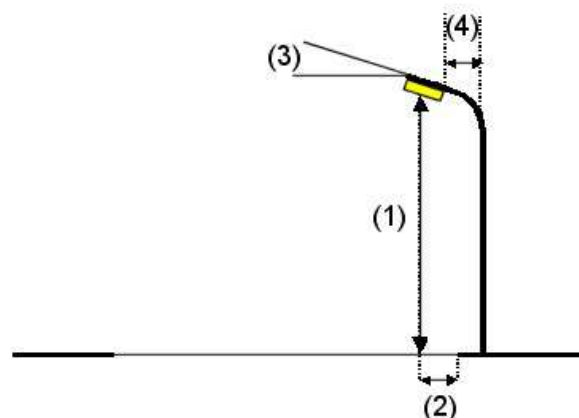
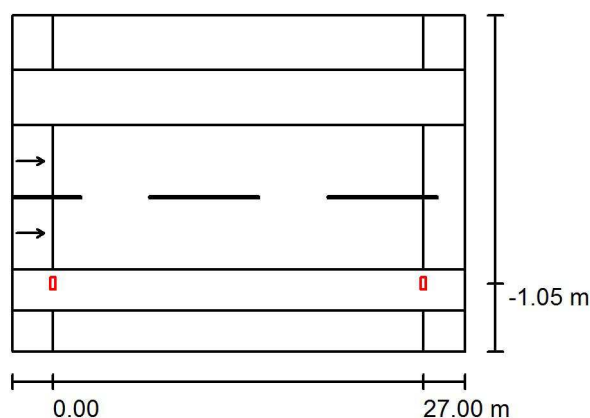
## Lielais prospekts / Planning data

### Street Profile

Velo Kreisā puse	(Width: 4.000 m)
zāle_Keisā puse	(Width: 4.000 m)
brauktuve	(Width: 10.500 m, Number of lanes: 2, tarmac: R3, q0: 0.070)
Zāle Labā puse	(Width: 3.000 m)
ietve Labā puse	(Width: 3.000 m)

Light loss factor: 0.67

### Luminaire Arrangements



Luminaire:	SR 112 30 02 01 3 S N ND VIZULO STORK 112W DWC 3000K
Luminous flux (Luminaire):	11320 lm
Luminous flux (Lamps):	11320 lm
Luminaire Wattage:	112.0 W
Arrangement:	Single row, bottom
Pole Distance:	27.000 m
Mounting Height (1):	10.045 m
Height:	9.999 m
Overhang (2):	-1.046 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.

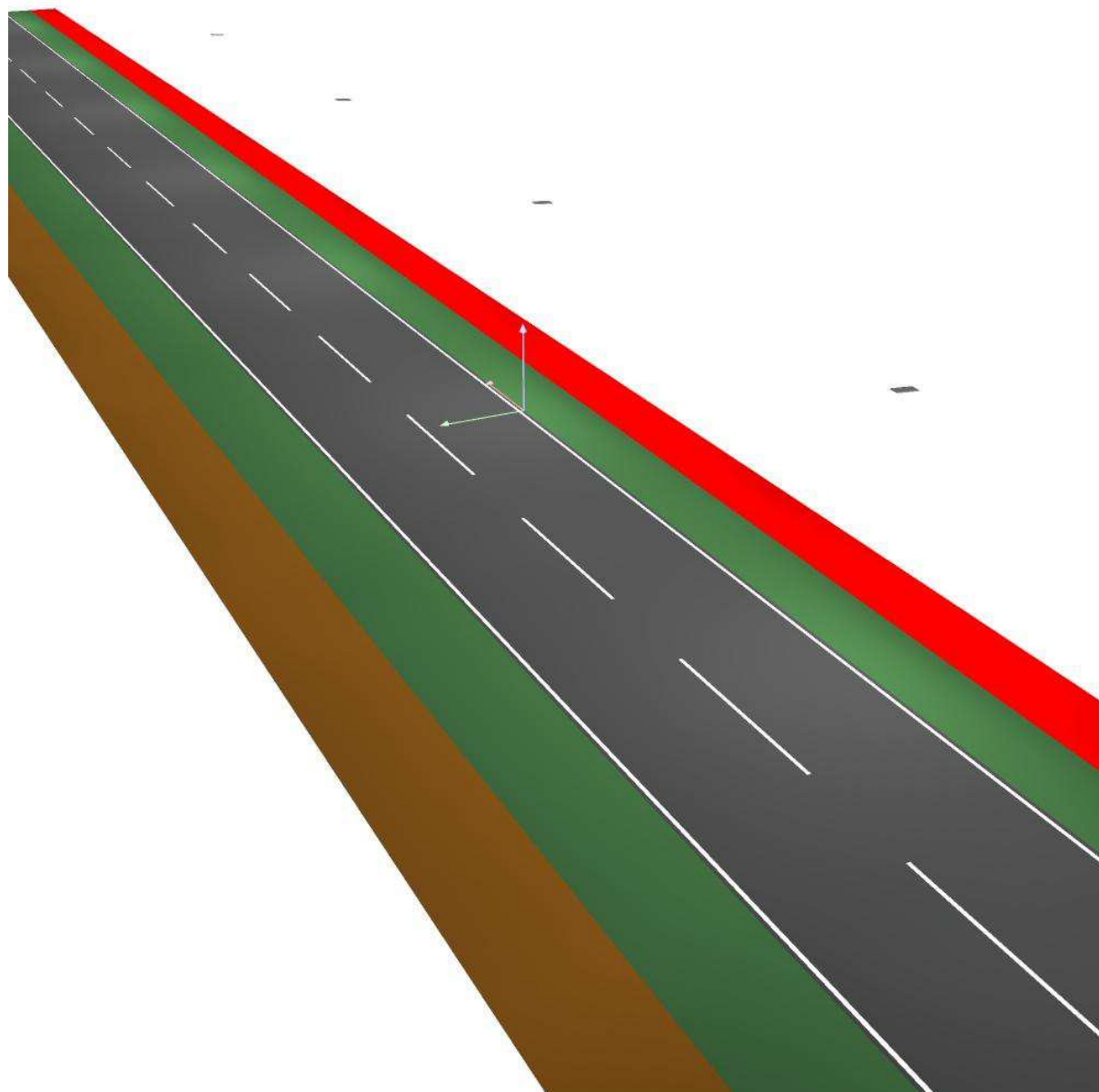
Arrangement complies with glare index class D.6.

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## Lielais prospekts / 3D Rendering



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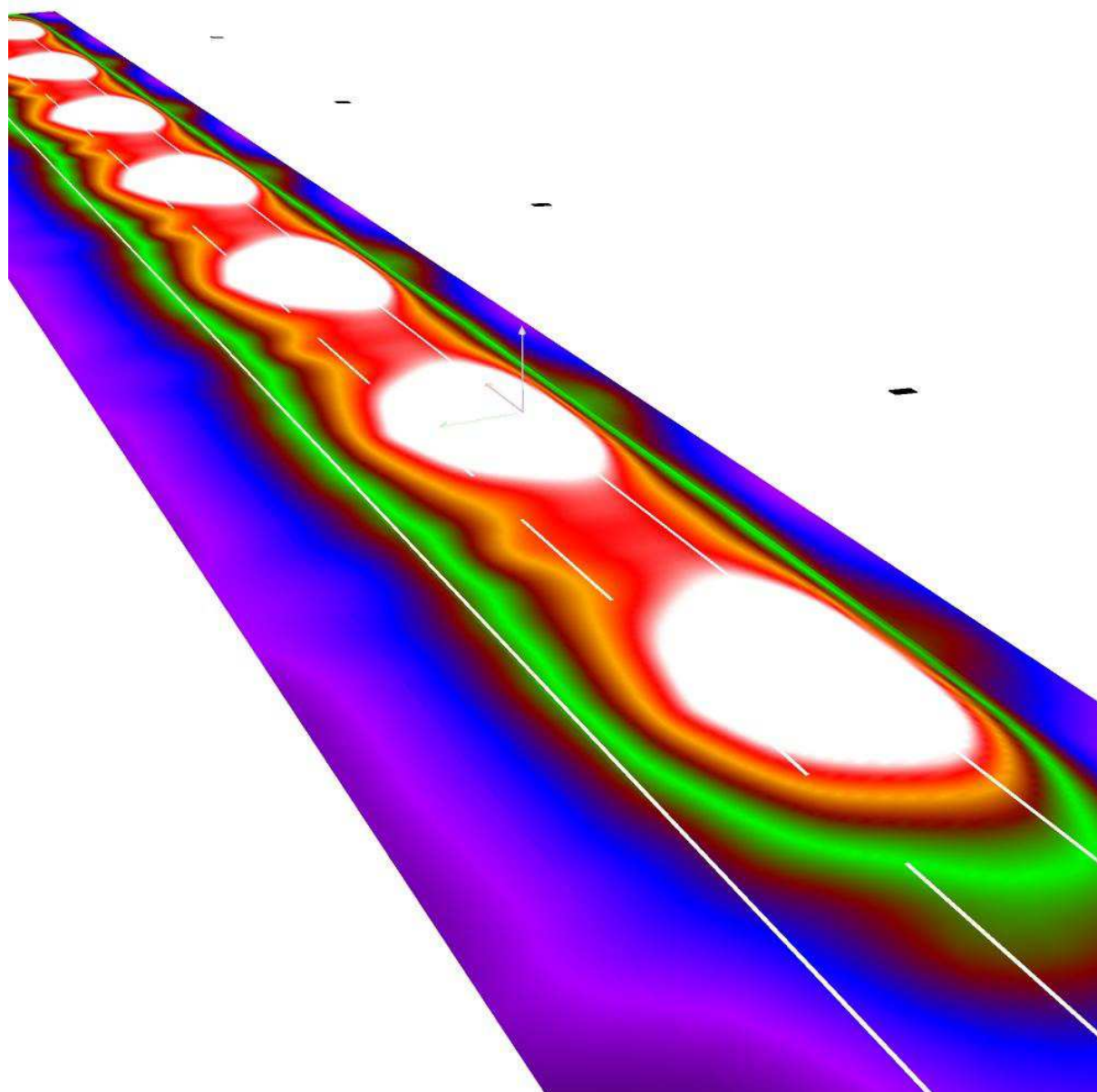
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## Lielais prospekts / False Color Rendering



0

2

4

6

8

10

12

14

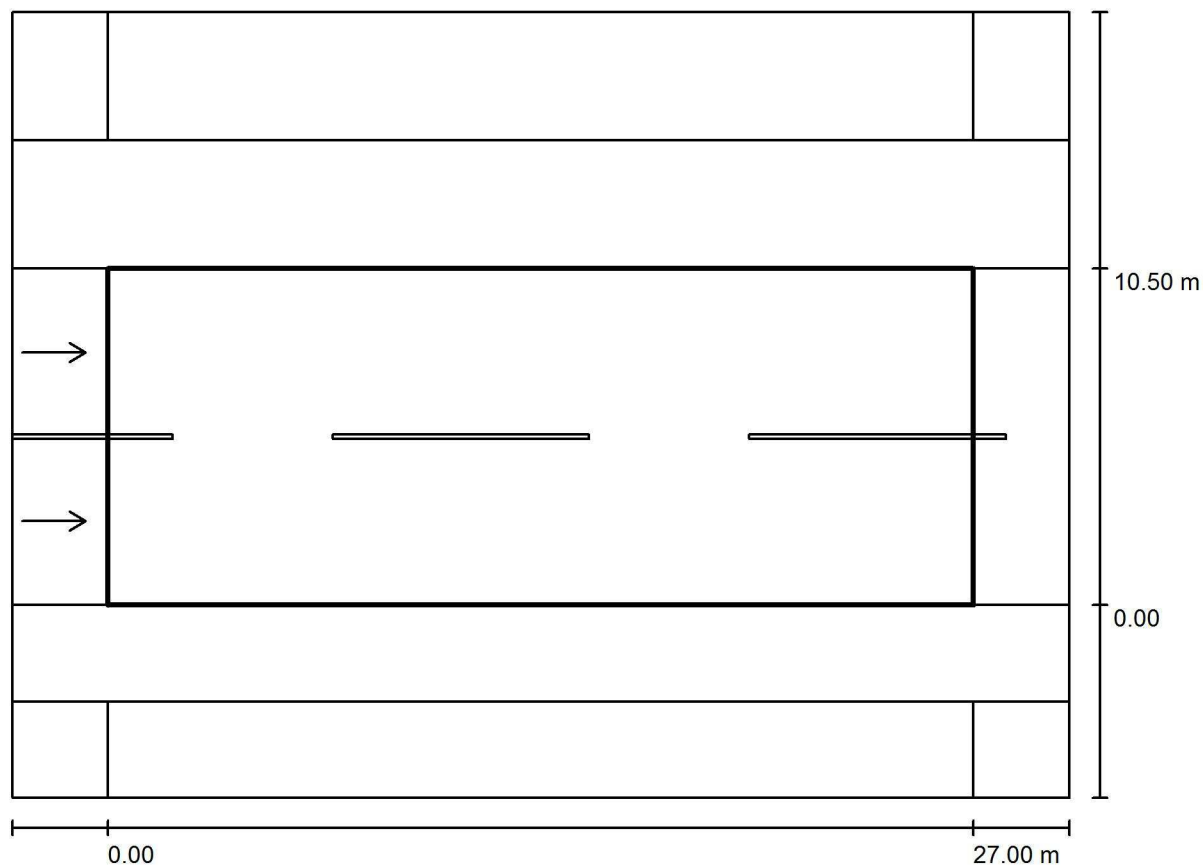
16

lx

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## Liels prospekts / brauktuve / Results overview



Scale 1:236

Selected Lighting Class: ME5

(All lighting performance requirements are met.)

Fulfilled/Not fulfilled:

$L_{av}$ [cd/m <sup>2</sup> ]	U0	UI	TI [%]	SR
0.82	0.39	0.83	6	0.53
≥ 0.50	≥ 0.35	≥ 0.40	≤ 15	≥ 0.50
✓	✓	✓	✓	✓

**Assigned observer (2 Pieces):**

No.	Observer	Position [m]	$L_{av}$ [cd/m <sup>2</sup> ]	U0	UI	TI [%]
1	Labā josla	(-60.000, 2.625, 1.500)	0.82	0.42	0.83	6
2	Kreisā josla	(-60.000, 7.875, 1.500)	0.92	0.39	0.84	4

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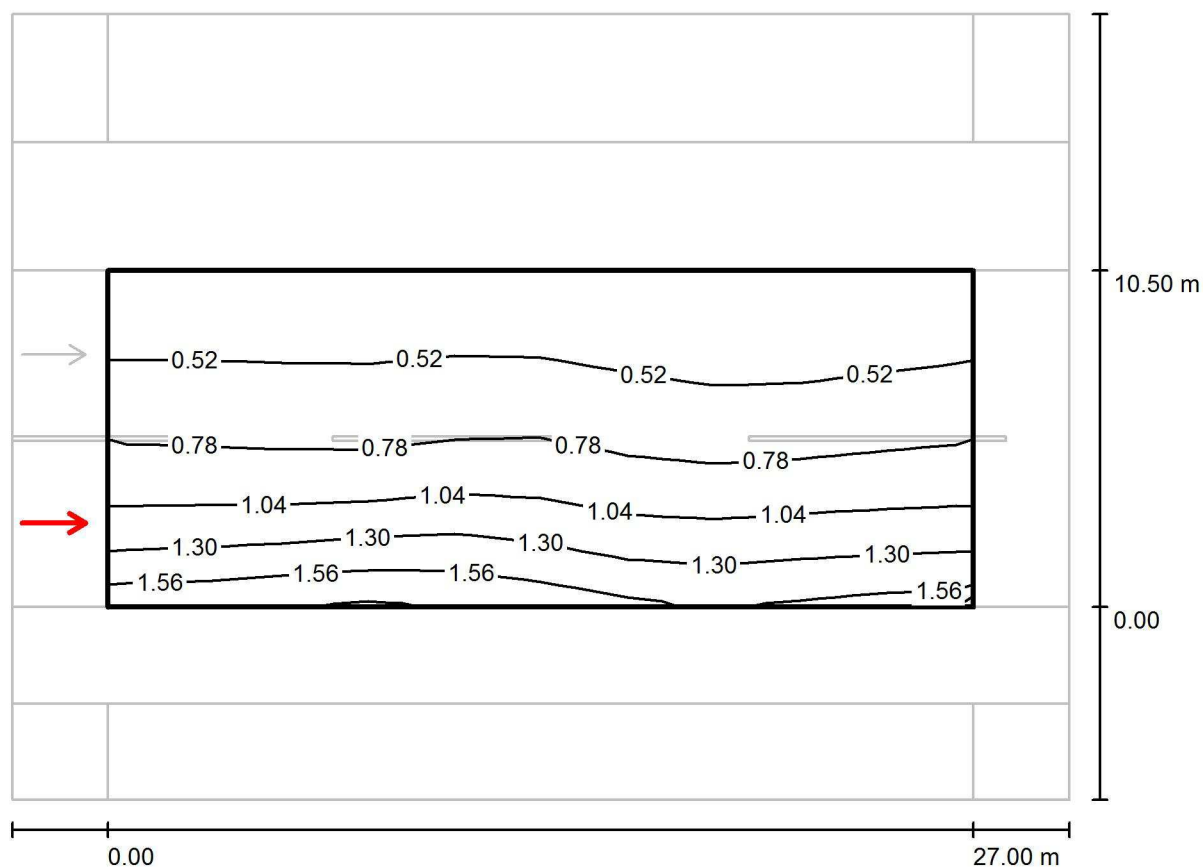
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## Lielais prospekts / brauktuve / Labā josla / Isolines (L)


Values in Candela/m<sup>2</sup>, Scale 1 : 236

Grid: 10 x 6 Points

Observer Position: (-60.000 m, 2.625 m, 1.500 m)

tarmac: R3, q0: 0.070

	$L_{av}$ [cd/m <sup>2</sup> ]	U0	UI	TI [%]
Calculated values:	0.82	0.42	0.83	6
Required values according to class ME5:	≥ 0.50	≥ 0.35	≥ 0.40	≤ 15
Fulfilled/Not fulfilled:	✓	✓	✓	✓

SIA "Projekts3"

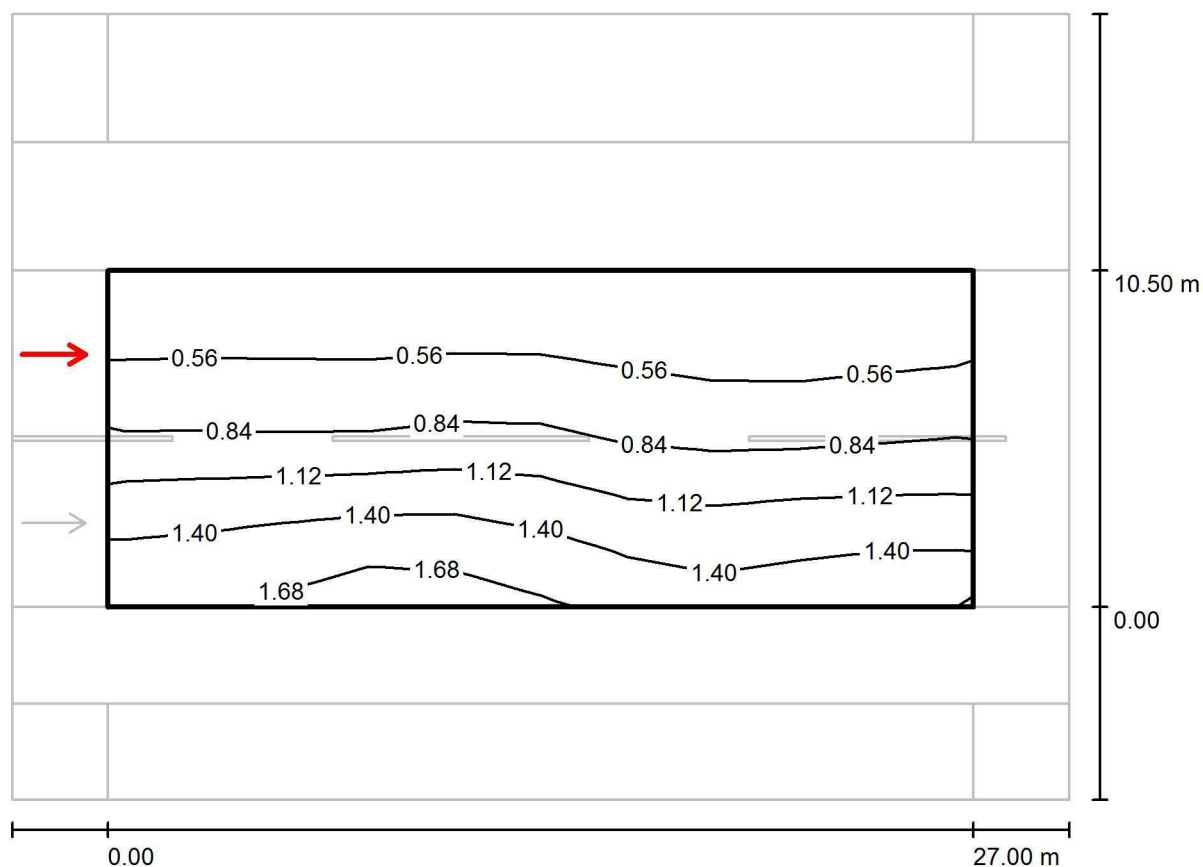
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**Lielais prospekts / brauktuve / Kreisā josla / Isolines (L)**Values in Candela/m<sup>2</sup>, Scale 1 : 236

Grid: 10 x 6 Points

Observer Position: (-60.000 m, 7.875 m, 1.500 m)

tarmac: R3, q0: 0.070

	$L_{av}$ [cd/m <sup>2</sup> ]	U0	UI	TI [%]
Calculated values:	0.92	0.39	0.84	4
Required values according to class ME5:	≥ 0.50	≥ 0.35	≥ 0.40	≤ 15
Fulfilled/Not fulfilled:	✓	✓	✓	✓



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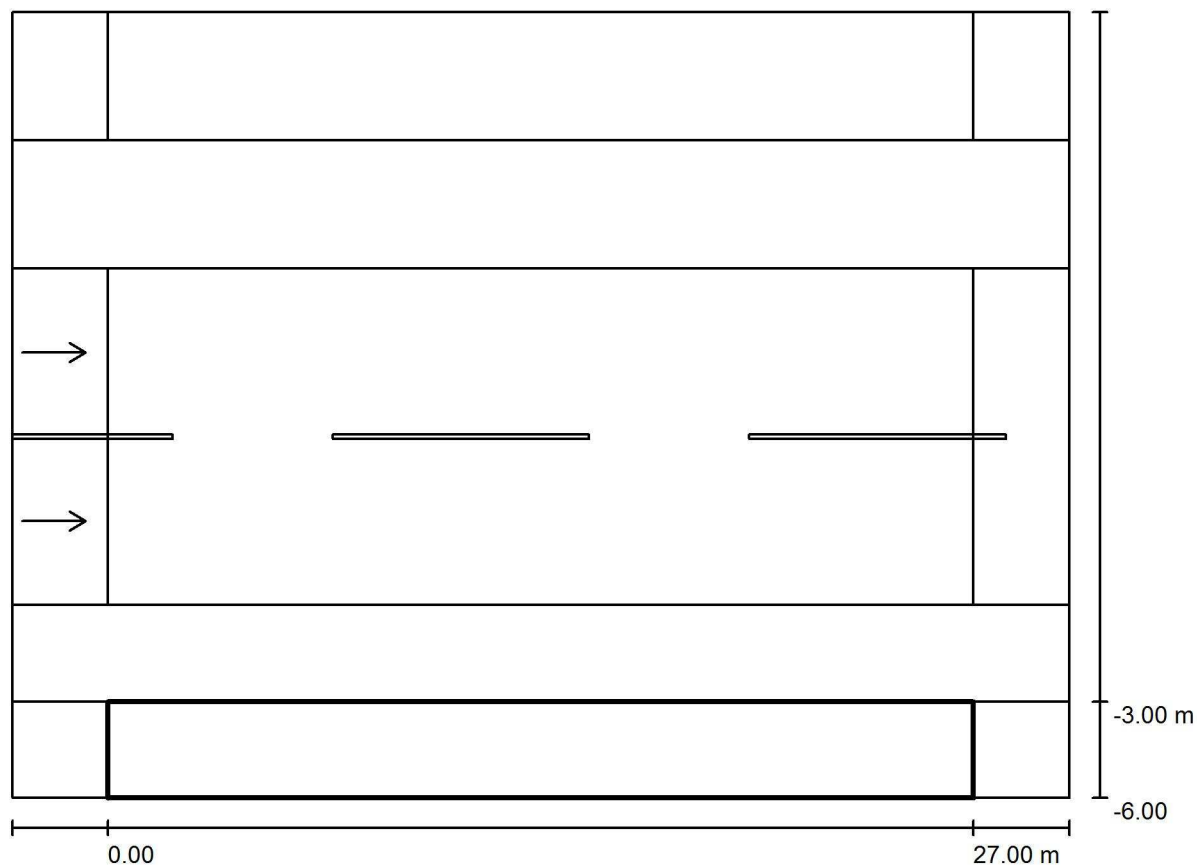
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## Lielais prospekts / ietve Labā puse / Results overview



Light loss factor: 0.67

Scale 1:236

Grid: 10 x 3 Points

Accompanying Street Elements: ietve Labā puse.

Selected Lighting Class: A3

(All lighting performance requirements are met.)

Calculated values:

Required values according to class:

Fulfilled/Not fulfilled:

$E_{av}$  (hemispherical) [lx]

3.47

≥ 2.00

✓

U0

0.51

≥ 0.15

✓

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Parka gaismeklis Philips Urbana GPS308 PCC-R, 30W LED,  
3000k, E27, Sertifikāti: CE, RoHS, ENECvai analogs.  
Balsts matēts melns

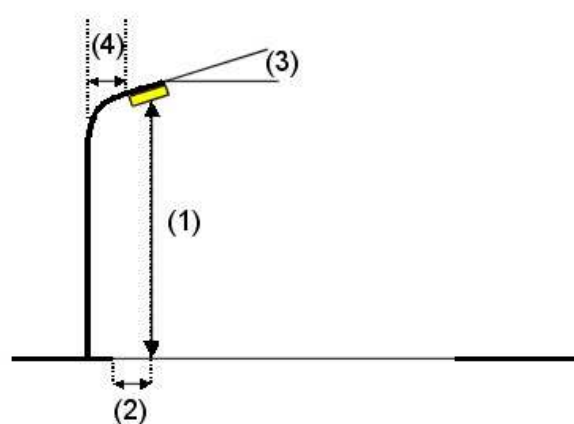
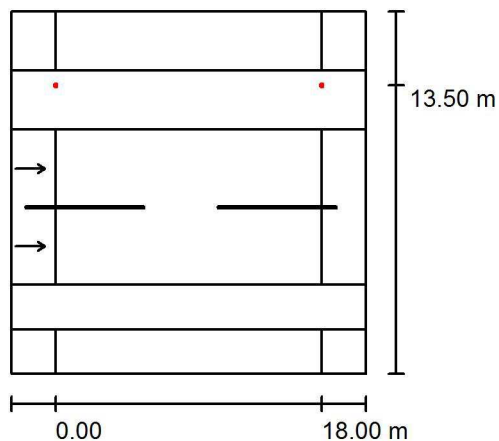
## Lielais prospekts / Planning data

### Street Profile

Velo Kreisā puse	(Width: 4.000 m)
zāle_Keisā puse	(Width: 4.000 m)
brauktuve	(Width: 10.500 m, Number of lanes: 2, tarmac: R3, q0: 0.070)
Zāle Labā puse	(Width: 3.000 m)
ietve Labā puse	(Width: 3.000 m)

Light loss factor: 0.67

### Luminaire Arrangements



Luminaire:	Philips EPS300 1xPL-T/4P42W HFP HSH +GPS307 PCO-R
Luminous flux (Luminaire):	2144 lm
Luminous flux (Lamps):	3200 lm
Luminaire Wattage:	46.0 W
Arrangement:	Single row, top
Pole Distance:	18.000 m
Mounting Height (1):	4.180 m
Height:	4.000 m
Overhang (2):	-3.000 m
Boom Angle (3):	0.0 °
Boom Length (4):	0.000 m

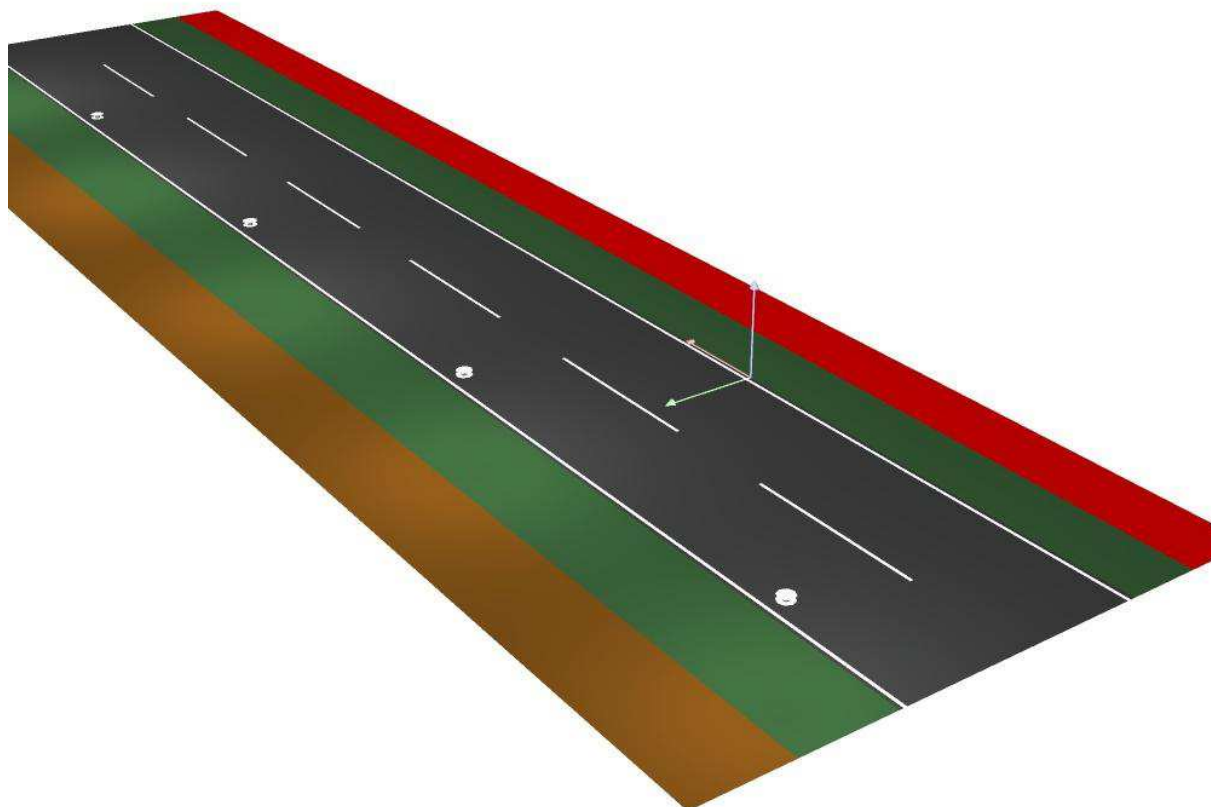
Maximum luminous intensities  
at 70°: 77 cd/klm  
at 80°: 77 cd/klm  
at 90°: 73 cd/klm  
Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.  
Arrangement complies with glare index class D.6.

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## Lielais prospekts / 3D Rendering

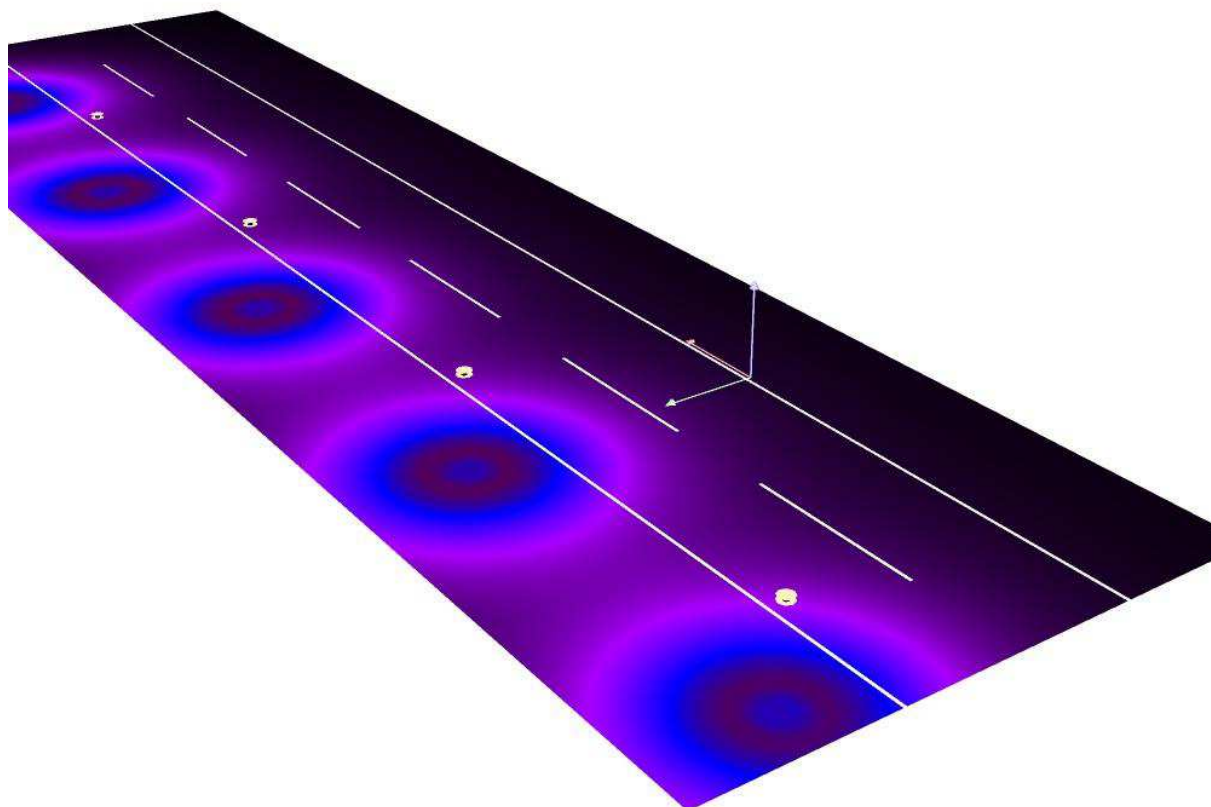


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## Lielais prospekts / False Color Rendering



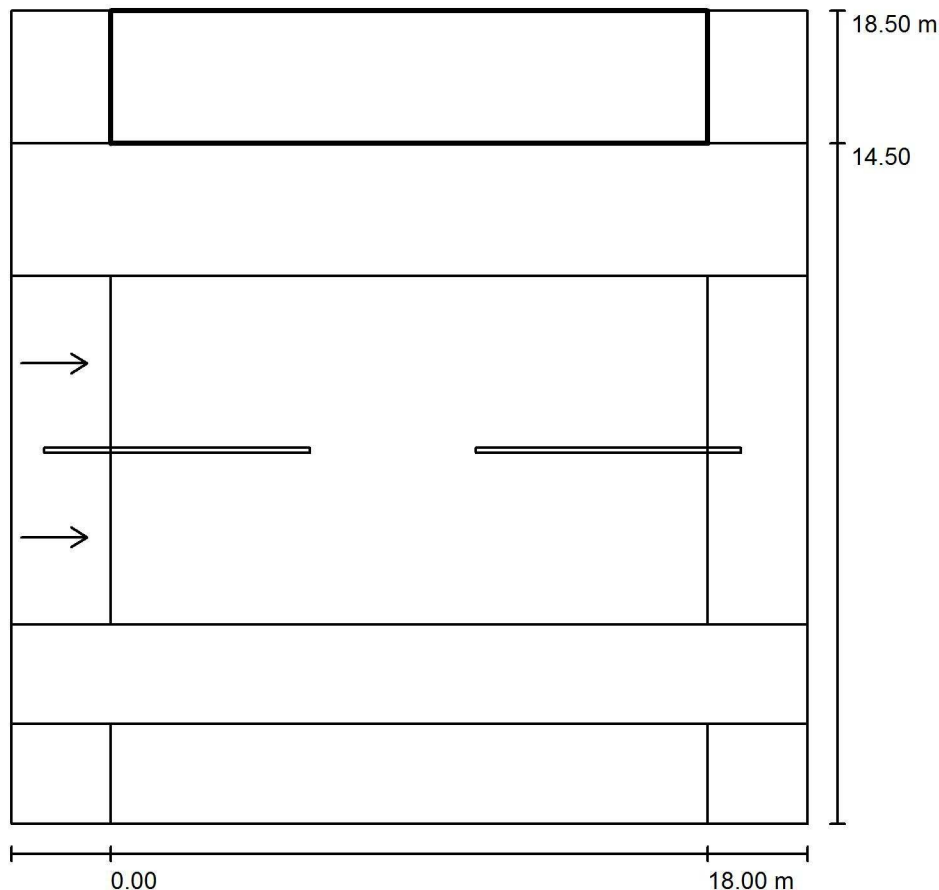
0 2 4 6 8 10 12 14 16 lx

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## Lielais prospekts / Velo Kreisā puse / Results overview



Light loss factor: 0.67

Scale 1:228

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.)

Calculated values:

Required values according to class:

Fulfilled/Not fulfilled:

$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{min}$ (semi-cyl.) [lx]
2.54	1.15	0.78
$\geq 2.00$	$\geq 0.60$	$\geq 0.50$
✓	✓	✓