

Rehabilitimi i Bulevardit Zogu i I

Date: 06.02.2019
Operator:

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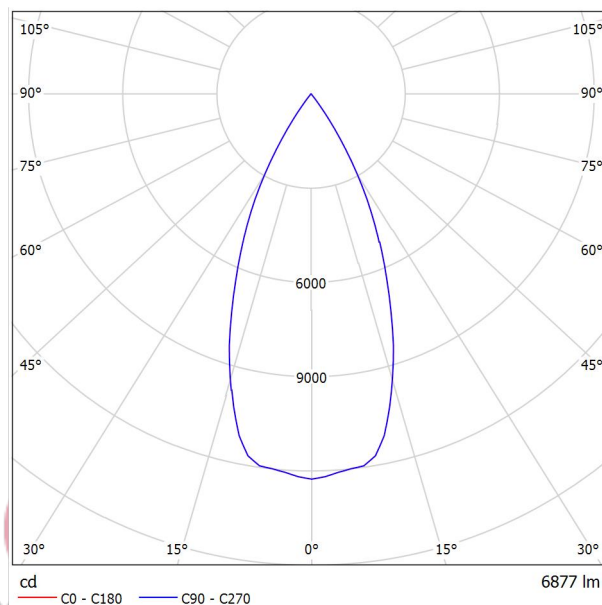
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**iGuzzini illuminazione S.p.A MaxiWoody: Spotlight with bracket - Neutral White COB
LED - Integrated dimm electronic control gear DALI - Wide Flood optic - 52W 8600lm -
4000K BV04_LW71 / Luminaire Data Sheet**

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 100
CIE flux code: 100 100 100 100 100

Luminous emittance 1:

Glare Evaluation According to UGR

Glare evaluation according to CEN											
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	13.0	13.6	13.2	13.8	14.0	13.0	13.6	13.2	13.8	14.0
	3H	12.9	13.4	13.1	13.7	13.9	12.9	13.4	13.1	13.7	13.9
	4H	12.8	13.3	13.1	13.6	13.8	12.8	13.3	13.1	13.6	13.8
	6H	12.7	13.2	13.0	13.5	13.8	12.7	13.2	13.0	13.5	13.8
	8H	12.7	13.2	13.0	13.5	13.7	12.7	13.2	13.0	13.5	13.7
	12H	12.7	13.1	13.0	13.4	13.7	12.7	13.1	13.0	13.4	13.7
4H	2H	12.8	13.3	13.1	13.6	13.8	12.8	13.3	13.1	13.6	13.8
	3H	12.7	13.1	13.0	13.4	13.7	12.7	13.1	13.0	13.4	13.7
	4H	12.6	13.0	13.0	13.3	13.6	12.6	13.0	13.0	13.3	13.6
	6H	12.5	12.8	12.9	13.2	13.6	12.5	12.8	12.9	13.2	13.6
	8H	12.5	12.7	12.9	13.1	13.5	12.5	12.7	12.9	13.1	13.5
	12H	12.4	12.7	12.9	13.1	13.5	12.4	12.7	12.9	13.1	13.5
8H	2H	12.5	12.7	12.9	13.1	13.5	12.5	12.7	12.9	13.1	13.5
	6H	12.4	12.6	12.8	13.0	13.4	12.4	12.6	12.8	13.0	13.4
	8H	12.3	12.5	12.8	12.9	13.4	12.3	12.5	12.8	12.9	13.4
	12H	12.3	12.4	12.8	12.9	13.4	12.3	12.4	12.8	12.9	13.4
	4H	12.4	12.7	12.9	13.1	13.5	12.4	12.7	12.9	13.1	13.5
	6H	12.3	12.5	12.8	12.9	13.4	12.3	12.5	12.8	12.9	13.4
12H	8H	12.3	12.4	12.8	12.9	13.4	12.3	12.4	12.8	12.9	13.4
	12H	12.3	12.4	12.8	12.9	13.4	12.3	12.4	12.8	12.9	13.4
Variation of the observer position for the luminaire distances S											
S = 1.0H		+6.7 / -19.9					+6.7 / -19.9				
S = 1.5H		+9.5 / -21.5					+9.5 / -21.5				
S = 2.0H		+11.5 / -22.4					+11.5 / -22.4				
Standard table		BK00					BK00				
Correction		-5.7					-5.7				
Summand											
Corrected Glare Indices referring to 6877lm Total Luminous Flux											

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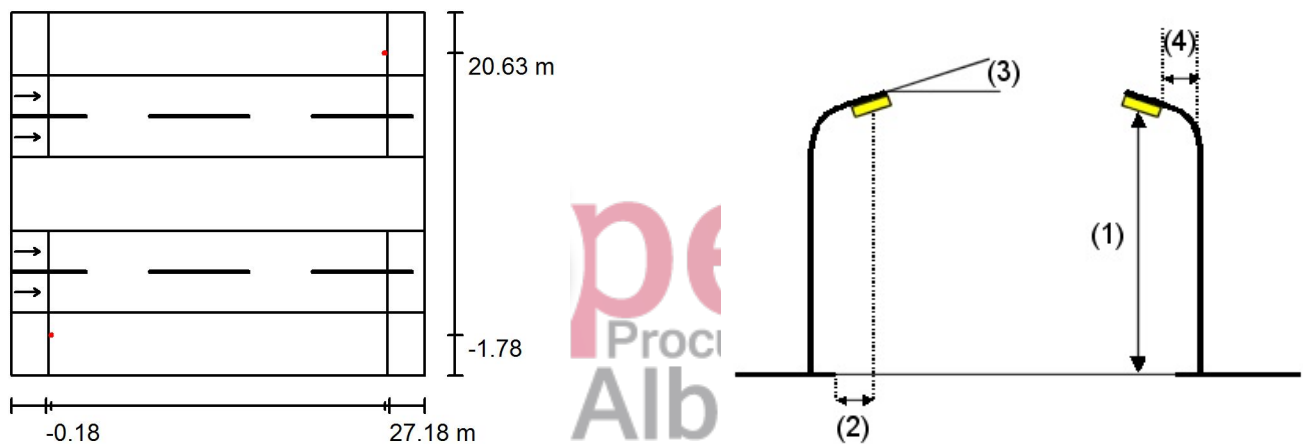
Bulevardit Zogu i I / Planning data

Street Profile

Trotuar 2	(Width: 5.000 m)
Rruga 2	(Width: 6.500 m, Number of lanes: 2, tarmac: R3, q0: 0.070)
Median	(Width: 5.850 m, Height: 0.000 m)
Rruga 1	(Width: 6.500 m, Number of lanes: 2, tarmac: R3, q0: 0.070)
Trotuar 1	(Width: 5.000 m)

Light loss factor: 0.67

Luminaire Arrangements



Luminaire: iGuzzini illuminazione S.p.A MaxiWoody: Spotlight with bracket - Neutral White COB LED - Integrated dimm electronic control gear DALI - Wide Flood optic - 52W 8600lm - 4000K BV04_LW71

Luminous flux (Luminaire): 6877 lm
Luminous flux (Lamps): 6877 lm
Luminaire Wattage: 58.0 W
Arrangement: Double row, opposing
Pole Distance: 27.000 m
Mounting Height (1): 9.800 m
Height: 9.800 m
Overhang (2): -1.785 m
Boom Angle (3): 35.0 °
Boom Length (4): 0.200 m

Maximum luminous intensities

at 70°: 145 cd/klm
at 80°: 3.50 cd/klm
at 90°: 1.25 cd/klm

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

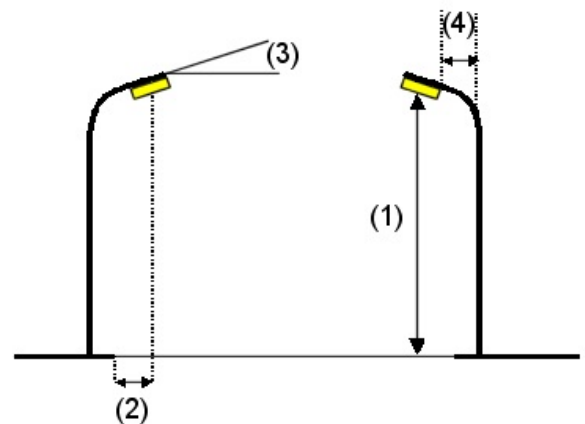
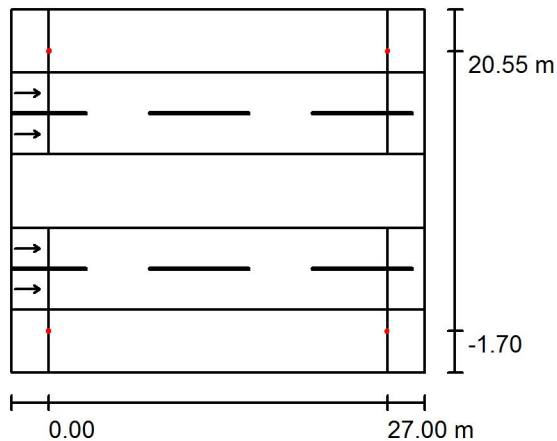
Arrangement complies with luminous intensity class G3.

Arrangement complies with glare index class D.6.

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Bulevardit Zogu i I / Planning data

Luminaire Arrangements



Luminaire: iGuzzini illuminazione S.p.A MaxiWoody: Spotlight with bracket - Neutral White COB LED - Integrated dimm electronic control gear DALI - Wide Flood optic - 52W 8600lm - 4000K BV04_LW71

Luminous flux (Luminaire): 6877 lm
Luminous flux (Lamps): 6877 lm
Luminaire Wattage: 58.0 W
Arrangement: Double row, opposing
Pole Distance: 27.000 m
Mounting Height (1): 9.400 m
Height: 9.400 m
Overhang (2): -1.700 m
Boom Angle (3): 35.0 °
Boom Length (4): 0.000 m

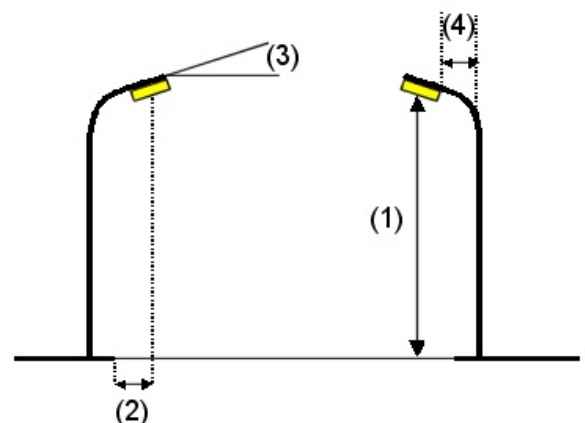
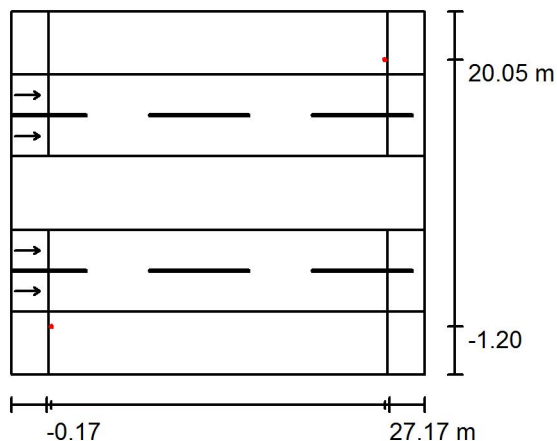
Maximum luminous intensities

at 70°: 145 cd/klm
at 80°: 3.50 cd/klm
at 90°: 1.25 cd/klm

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

Arrangement complies with luminous intensity class G3.

Arrangement complies with glare index class D.6.



Luminaire: iGuzzini illuminazione S.p.A MaxiWoody: Spotlight with bracket - Neutral White COB LED - Integrated dimm electronic control gear DALI - Wide Flood optic - 52W 8600lm - 4000K BV04_LW71

Luminous flux (Luminaire): 6877 lm
Luminous flux (Lamps): 6877 lm
Luminaire Wattage: 58.0 W
Arrangement: Double row, opposing
Pole Distance: 27.000 m
Mounting Height (1): 9.000 m
Height: 9.000 m
Overhang (2): -1.200 m

Maximum luminous intensities

at 70°: 1075 cd/klm
at 80°: 426 cd/klm
at 90°: 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.2.

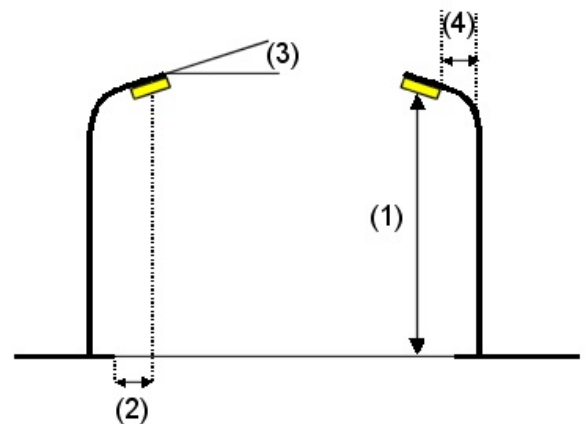
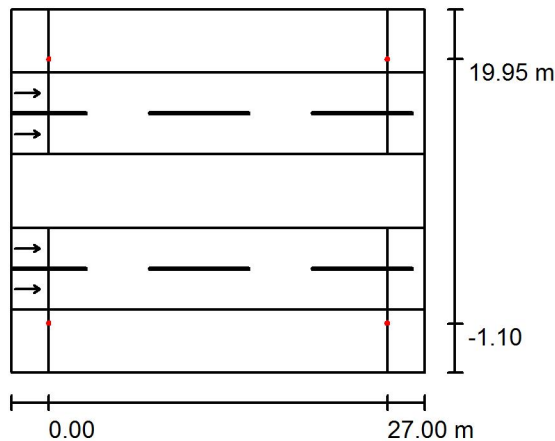
Boom Angle (3): 50.0 °
Boom Length (4): 0.200 m



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Bulevardit Zogu i I / Planning data

Luminaire Arrangements



Luminaire: iGuzzini illuminazione S.p.A MaxiWoody: Spotlight with bracket - Neutral White COB LED - Integrated dimm electronic control gear DALI - Wide Flood optic - 52W 8600lm - 4000K BV04_LW71

Luminous flux (Luminaire): 6877 lm
Luminous flux (Lamps): 6877 lm
Luminaire Wattage: 58.0 W
Arrangement: Double row, opposing
Pole Distance: 27.000 m
Mounting Height (1): 8.600 m
Height: 8.600 m
Overhang (2): -1.100 m
Boom Angle (3): 35.0 °
Boom Length (4): 0.200 m

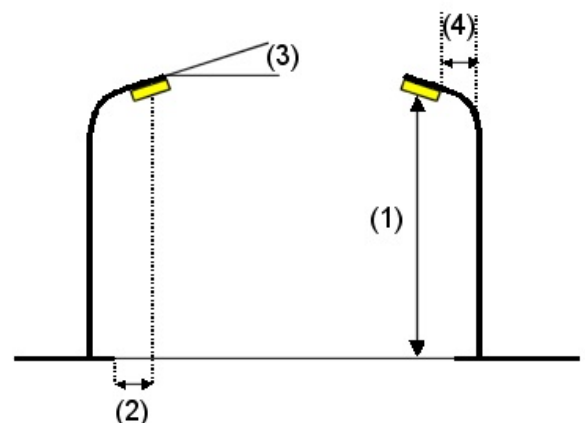
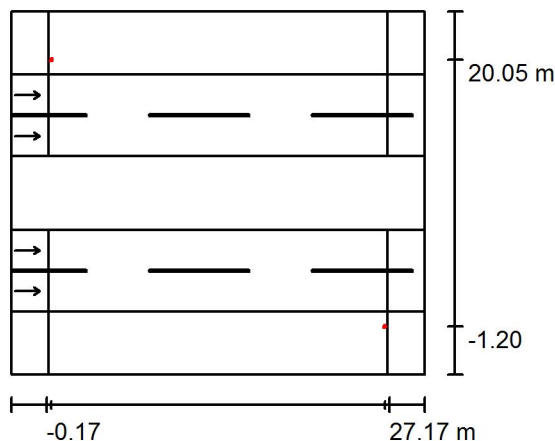
Maximum luminous intensities

at 70°: 145 cd/klm
at 80°: 3.50 cd/klm
at 90°: 1.25 cd/klm

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

Arrangement complies with luminous intensity class G3.

Arrangement complies with glare index class D.6.



Luminaire: iGuzzini illuminazione S.p.A MaxiWoody: Spotlight with bracket - Neutral White COB LED - Integrated dimm electronic control gear DALI - Wide Flood optic - 52W 8600lm - 4000K BV04_LW71

Luminous flux (Luminaire): 6877 lm
Luminous flux (Lamps): 6877 lm
Luminaire Wattage: 58.0 W
Arrangement: Double row, opposing
Pole Distance: 27.000 m
Mounting Height (1): 8.200 m
Height: 8.200 m
Overhang (2): -1.200 m

Maximum luminous intensities

at 70°: 1701 cd/klm
at 80°: 1075 cd/klm
at 90°: 426 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.0.

Boom Angle (3): 60.0 °
Boom Length (4): 0.200 m



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Bulevardit Zogu i I / Luminaire parts list

iGuzzini illuminazione S.p.A MaxiWoody:
Spotlight with bracket - Neutral White COB LED -
Integrated dimm electronic control gear DALI -
Wide Flood optic - 52W 8600lm - 4000K
BV04_LW71

Article No.: MaxiWoody: Spotlight with bracket -
Neutral White COB LED - Integrated dimm
electronic control gear DALI - Wide Flood optic -
52W 8600lm - 4000K

Luminous flux (Luminaire): 6877 lm

Luminous flux (Lamps): 6877 lm

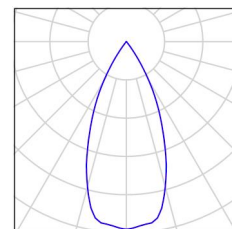
Luminaire Wattage: 58.0 W

Luminaire classification according to CIE: 100

CIE flux code: 100 100 100 100 100

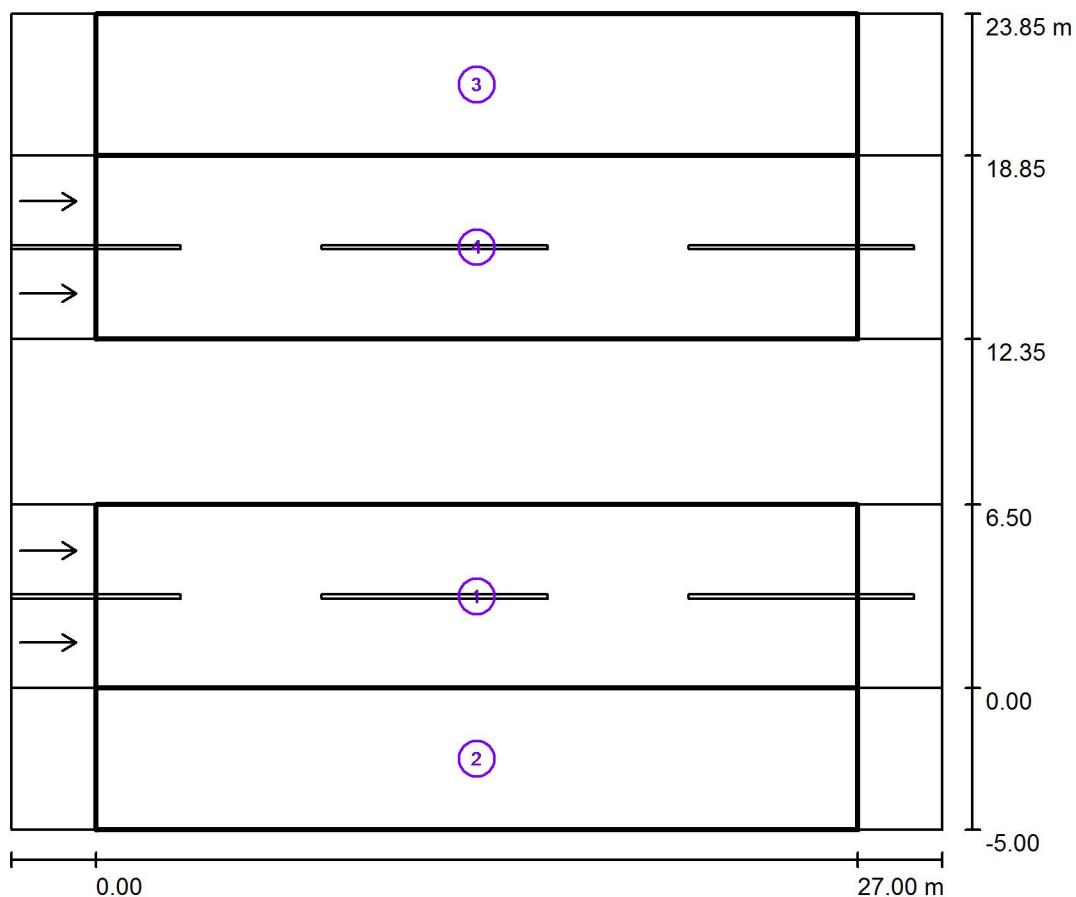
Fitting: 1 x LED Neutral (Correction Factor
1.000).

See our luminaire
catalog for an image of
the luminaire.



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Bulevardit Zogu i I / Photometric Results



Light loss factor: 0.67

Scale 1:268

Calculation Field List

- 1 Rruga 1
Length: 27.000 m, Width: 6.500 m
Grid: 10 x 6 Points
Accompanying Street Elements: Rruga 1.
tarmac: R3, q0: 0.070
Selected Lighting Class: ME4a

(All lighting performance requirements are met.)

	L_{av} [cd/m ²]	U0	UI	TI [%]	SR
Calculated values:	2.69	0.67	0.76	9	0.83
Required values according to class:	≥ 0.75	≥ 0.40	≥ 0.60	≤ 15	≥ 0.50
Fulfilled/Not fulfilled:	✓	✓	✓	✓	✓

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Bulevardit Zogu i I / Photometric Results

Calculation Field List

2 Troruar 1

Length: 27.000 m, Width: 5.000 m
Grid: 10 x 4 Points
Accompanying Street Elements: Troruar 1.
Selected Lighting Class: CE5

(All lighting performance requirements are met.)

Calculated values:

Required values according to class:

Fulfilled/Not fulfilled:

E_{av} [lx]	U0
43.32	0.50
≥ 7.50	≥ 0.40
✓	✓

3 Trotuar 2

Length: 27.000 m, Width: 5.000 m
Grid: 10 x 4 Points
Accompanying Street Elements: Trotuar 2.
Selected Lighting Class: CE5

(All lighting performance requirements are met.)

Calculated values:

Required values according to class:

Fulfilled/Not fulfilled:

E_{av} [lx]	U0
43.32	0.50
≥ 7.50	≥ 0.40
✓	✓

4 Rruga 2

Length: 27.000 m, Width: 6.500 m
Grid: 10 x 6 Points
Accompanying Street Elements: Rruga 2.
tarmac: R3, q0: 0.070
Selected Lighting Class: ME4a

(All lighting performance requirements are met.)

Calculated values:

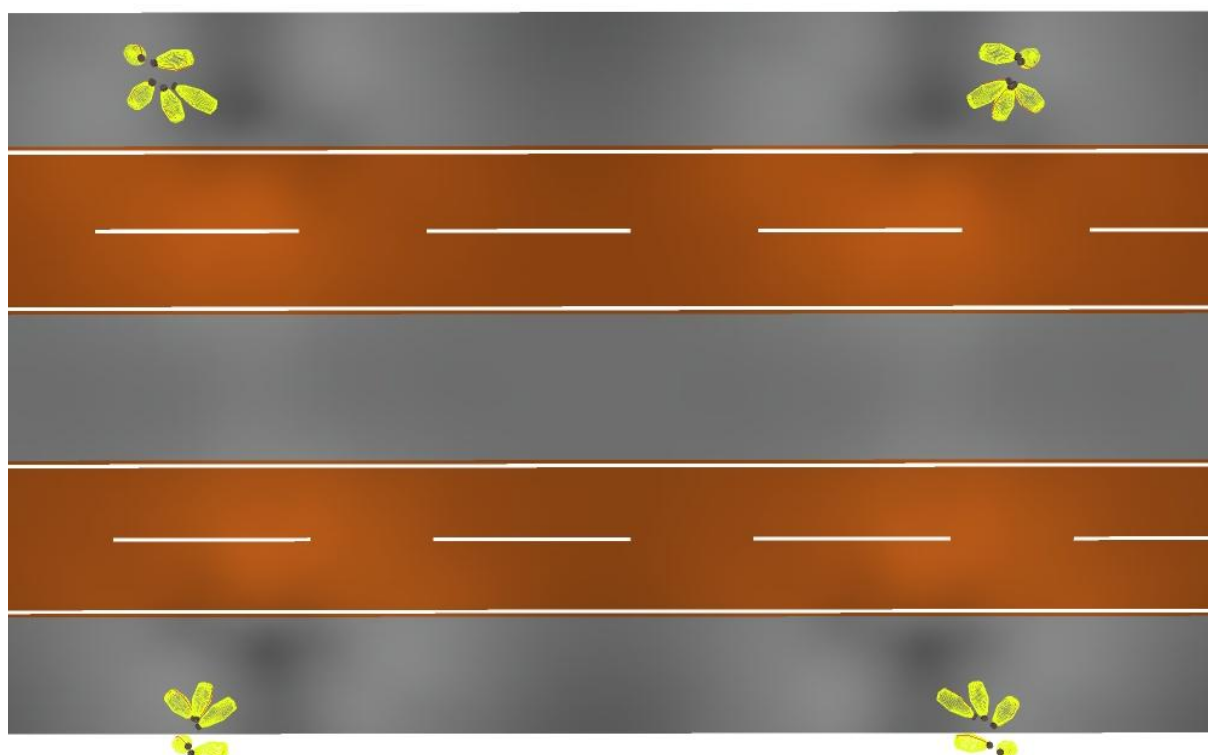
Required values according to class:

Fulfilled/Not fulfilled:

L_{av} [cd/m ²]	U0	UI	TI [%]	SR
2.56	0.73	0.61	7	0.83
≥ 0.75	≥ 0.40	≥ 0.60	≤ 15	≥ 0.50
✓	✓	✓	✓	✓

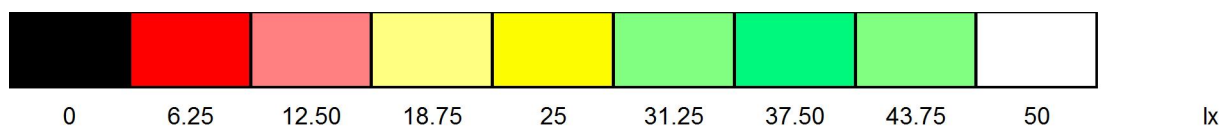
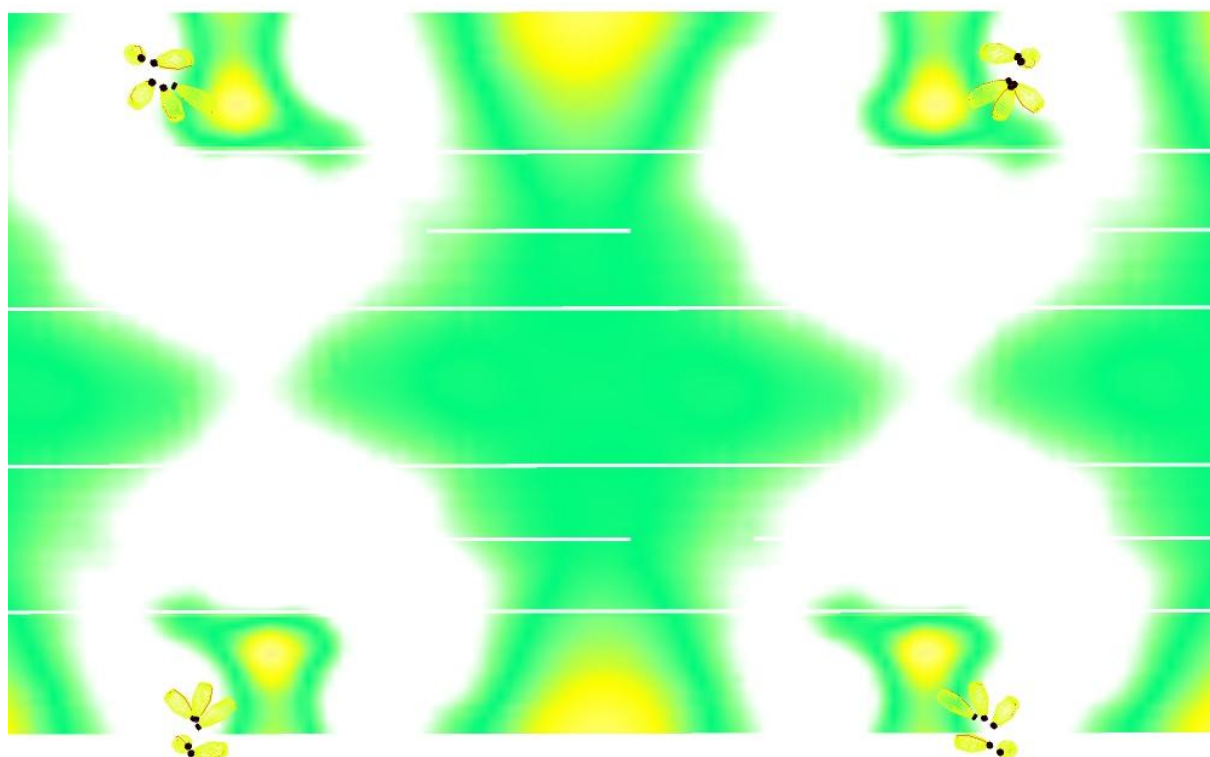
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Bulevardit Zogu i I / 3D Rendering



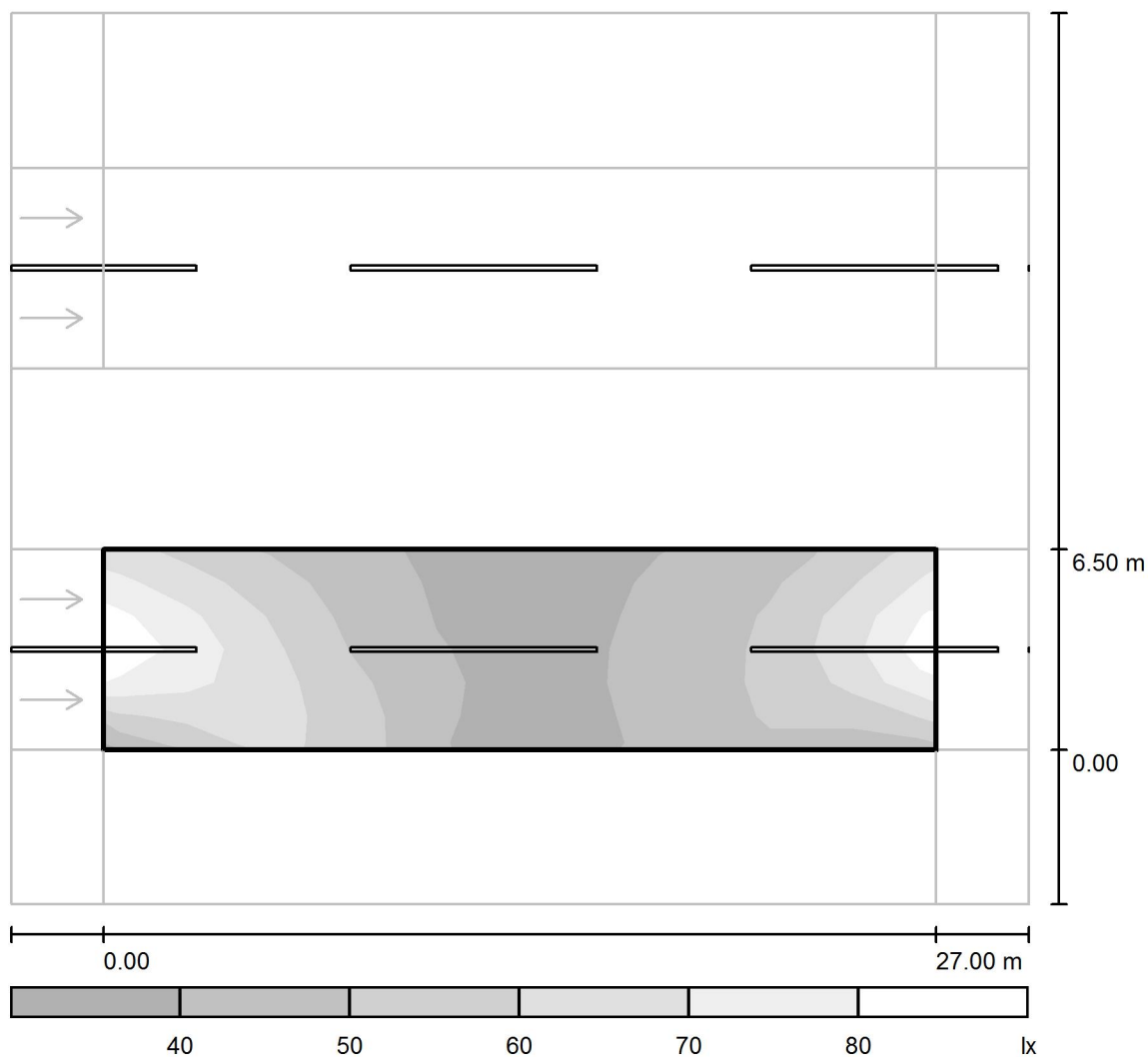
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Bulevardit Zogu i I / False Color Rendering



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Bulevardit Zogu i I / Rruga 1 / Greyscale (E)



Scale 1 : 245

Grid: 10 x 6 Points

 E_{av} [lx]
52

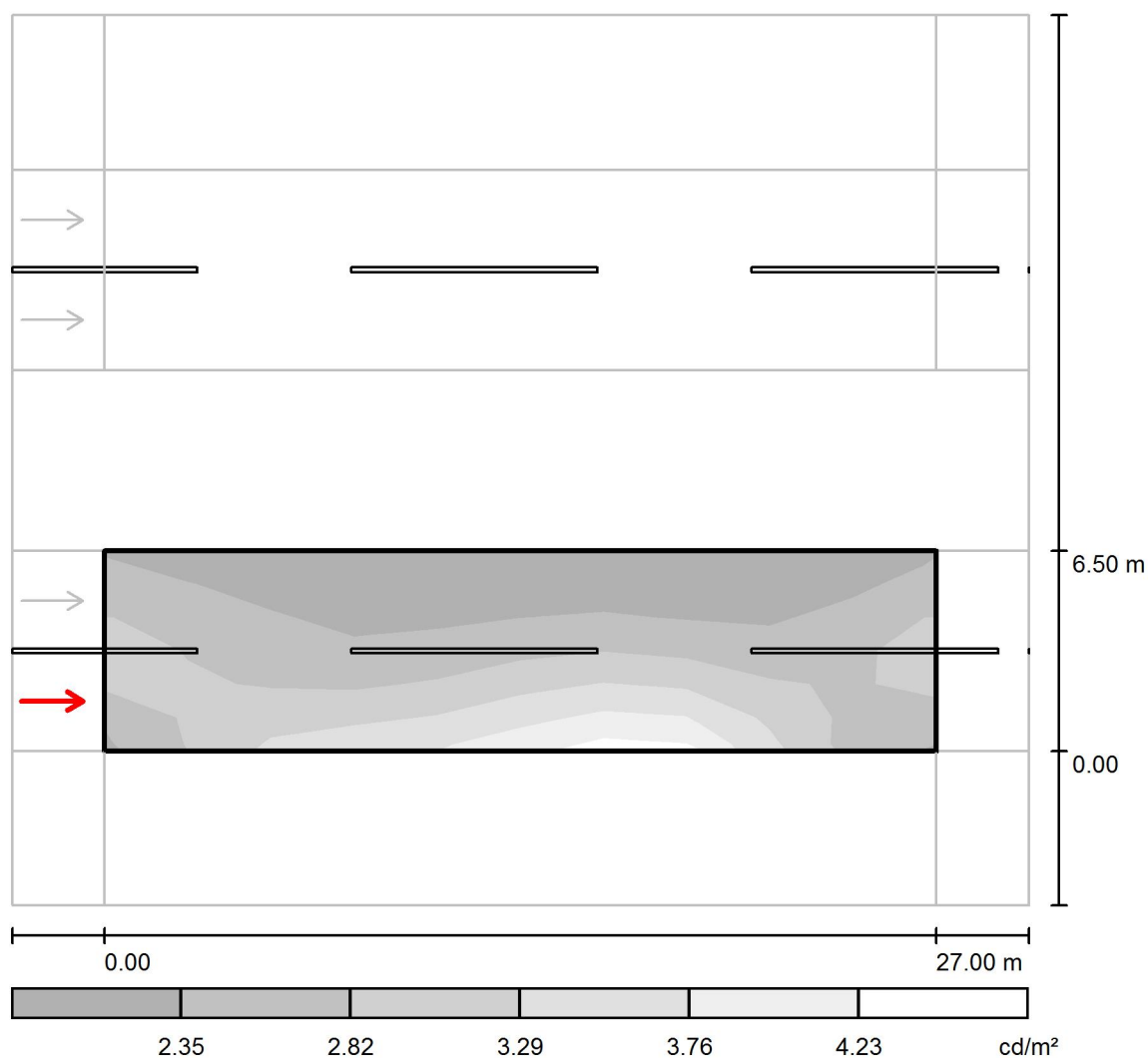
 E_{min} [lx]
34

 E_{max} [lx]
83

 u_0
0.651

 E_{min} / E_{max}
0.405

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Bulevardit Zogu i I / Rruga 1 / Observer 1 / Greyscale (L)


Scale 1 : 245

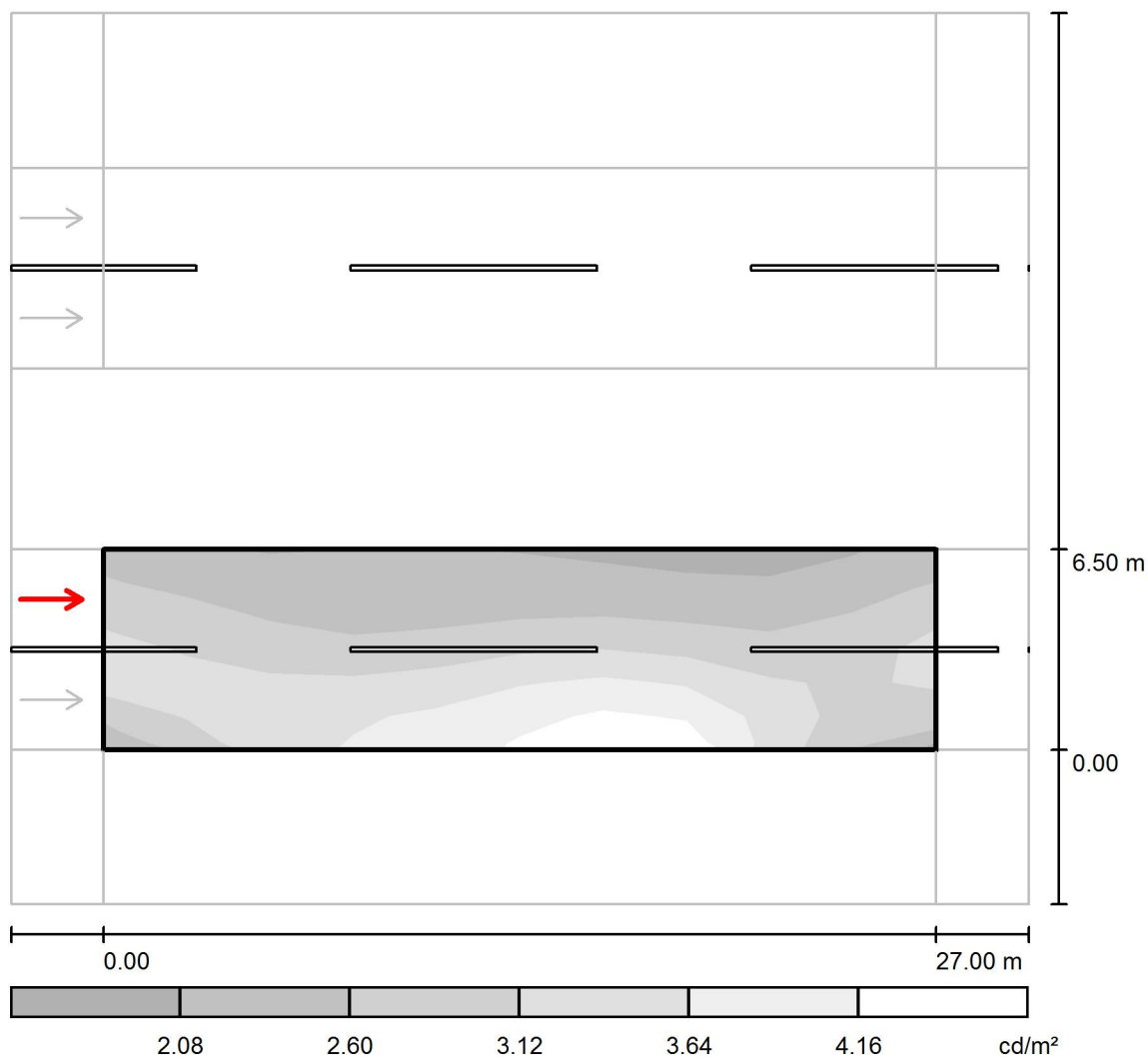
Grid: 10 x 6 Points

Observer Position: (-60.000 m, 1.625 m, 1.500 m)

tarmac: R3, q0: 0.070

	L_{av} [cd/m ²]	U0	UI	TI [%]
Calculated values:	2.69	0.70	0.76	9
Required values according to class ME4a:	≥ 0.75	≥ 0.40	≥ 0.60	≤ 15
Fulfilled/Not fulfilled:	☒	☒	☒	☒

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Bulevardit Zogu i I / Rruga 1 / Observer 2 / Greyscale (L)


Scale 1 : 245

Grid: 10 x 6 Points

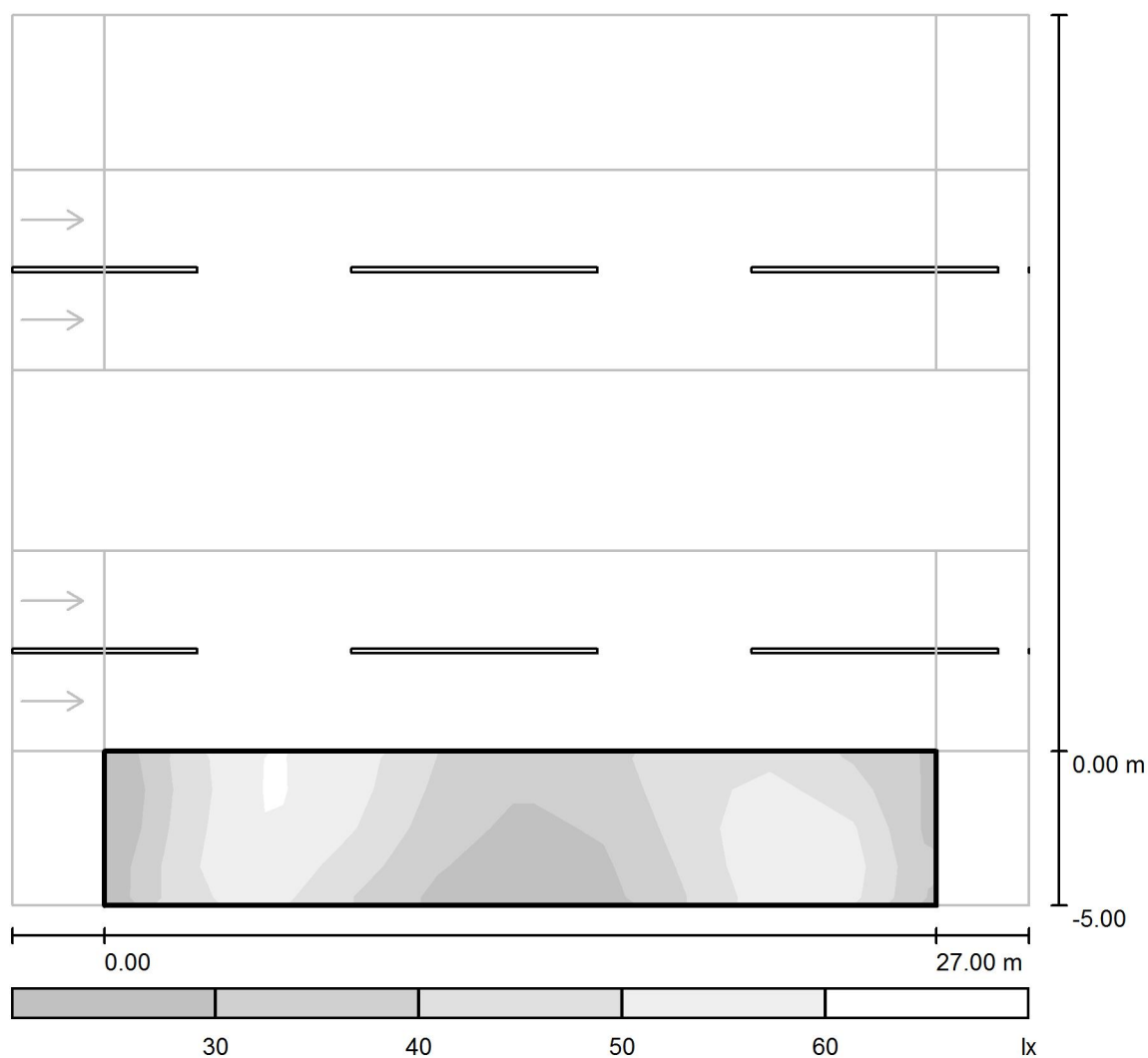
Observer Position: (-60.000 m, 4.875 m, 1.500 m)

tarmac: R3, q0: 0.070

	L_{av} [cd/m ²]	U0	UI	TI [%]
Calculated values:	2.93	0.67	0.82	9
Required values according to class ME4a:	≥ 0.75	≥ 0.40	≥ 0.60	≤ 15
Fulfilled/Not fulfilled:	☒	☒	☒	☒

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Bulevardit Zogu i I / Troruar 1 / Greyscale (E)



Scale 1 : 245

Grid: 10 x 4 Points

 E_{av} [lx]
43

 E_{min} [lx]
22

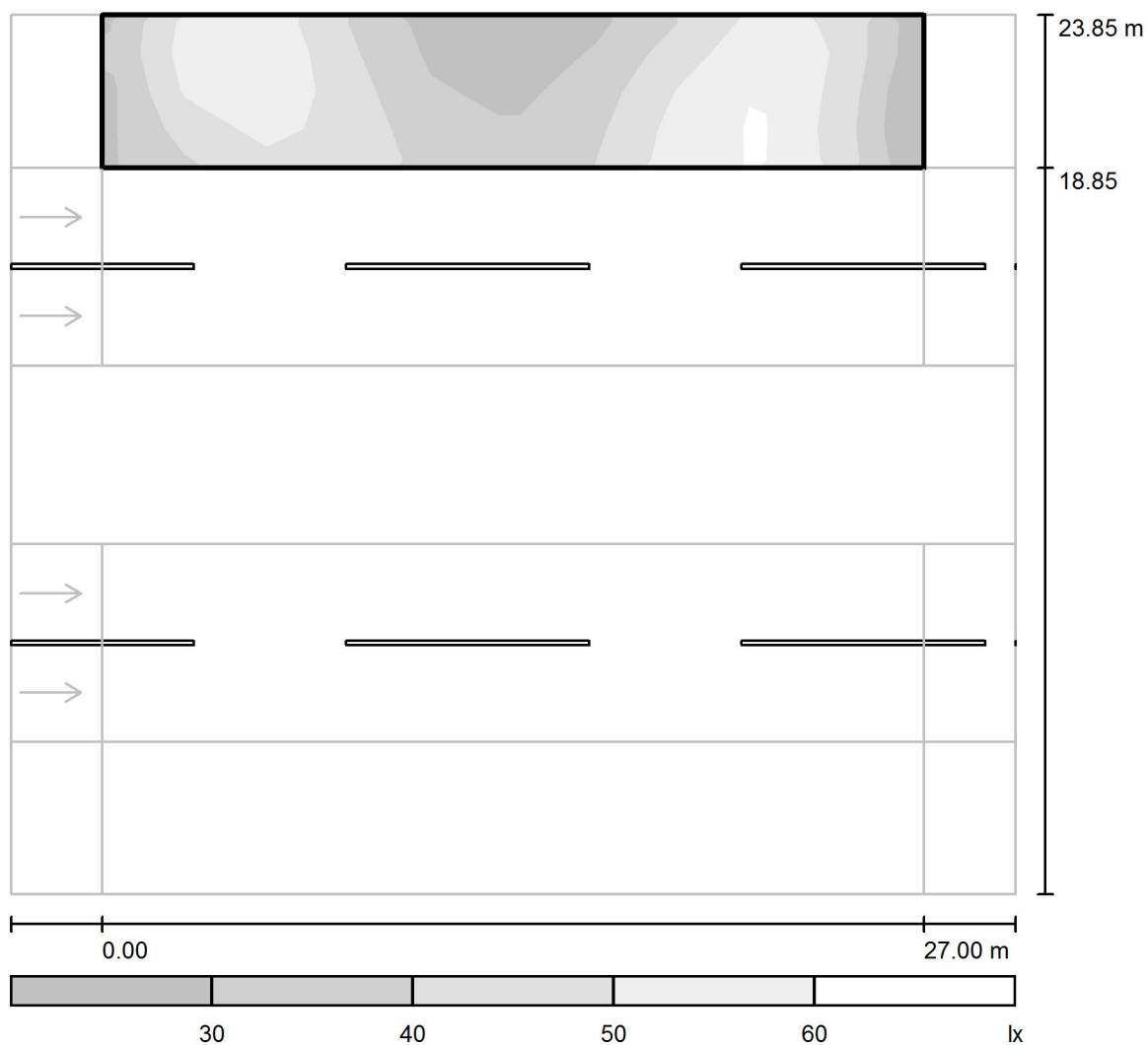
 E_{max} [lx]
69

 u_0
0.503

 E_{min} / E_{max}
0.317

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Bulevardit Zogu i I / Trotuar 2 / Greyscale (E)



Scale 1 : 245

Grid: 10 x 4 Points

 E_{av} [lx]
 43

 E_{min} [lx]
 22

 E_{max} [lx]
 69

 u_0
 0.503

 E_{min} / E_{max}
 0.317

E_{av} [lx]
52

$$E_{\min} [Ix]$$
$$E_{\max} [Ix]$$

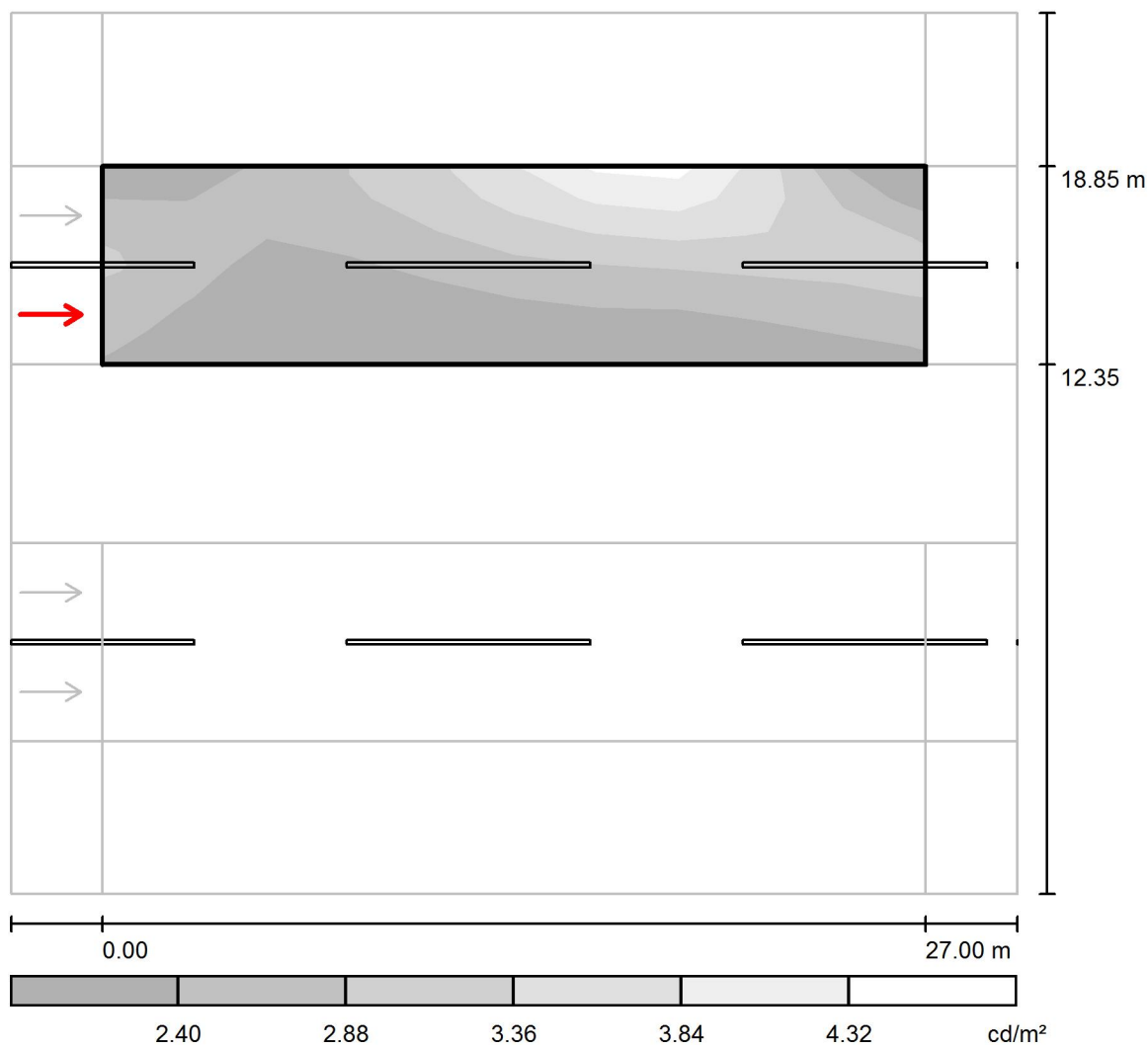
83

u0
0.651

$$E_{\min} / E_{\max}$$

0.405

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Bulevardit Zogu i I / Rruga 2 / Observer 3 / Greyscale (L)


Scale 1 : 245

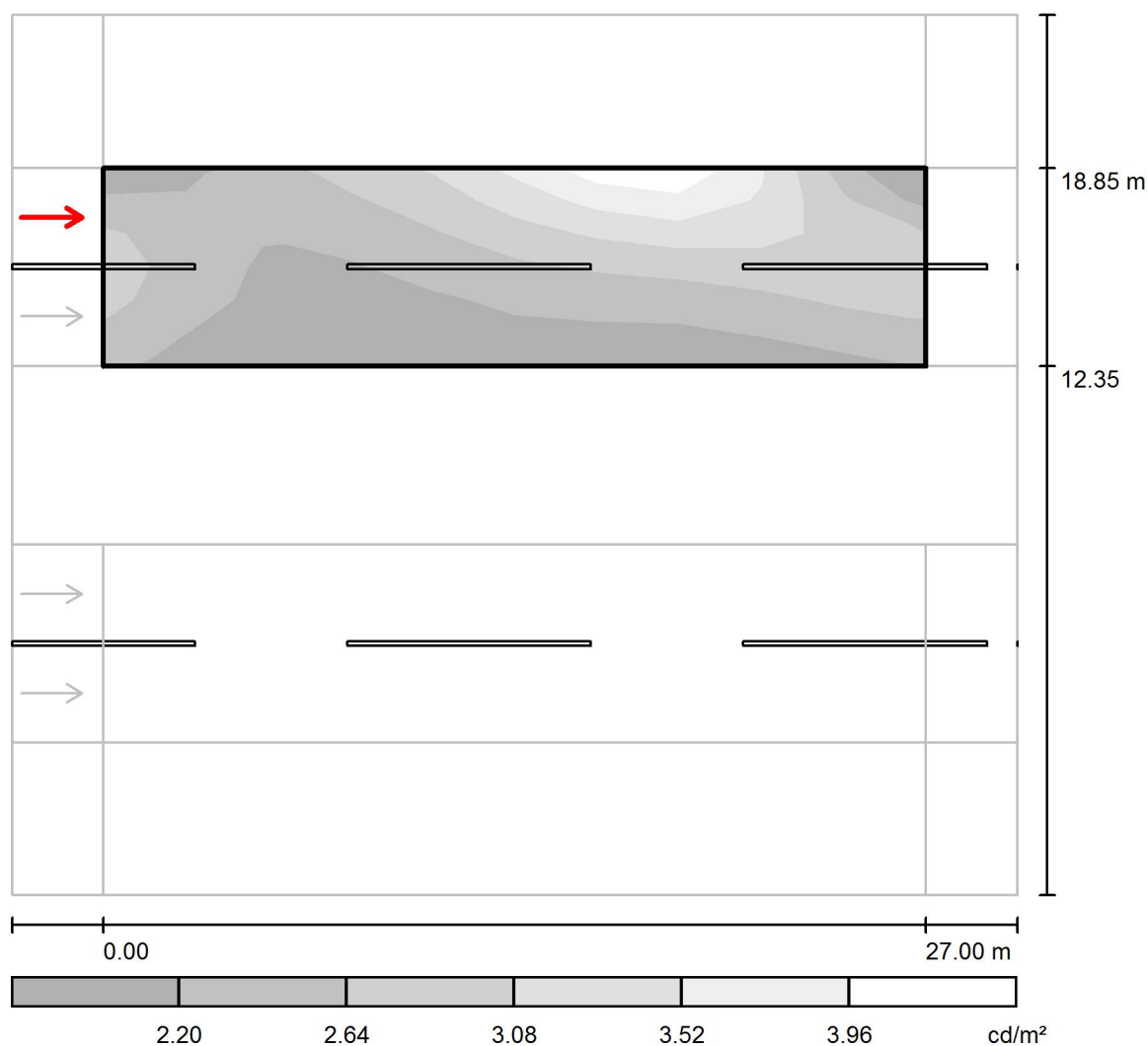
Grid: 10 x 6 Points

Observer Position: (-60.000 m, 13.975 m, 1.500 m)

tarmac: R3, q0: 0.070

	L_{av} [cd/m ²]	U0	UI	TI [%]
Calculated values:	2.69	0.73	0.77	7
Required values according to class ME4a:	≥ 0.75	≥ 0.40	≥ 0.60	≤ 15
Fulfilled/Not fulfilled:	☒	☒	☒	☒

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Bulevardit Zogu i I / Rruga 2 / Observer 4 / Greyscale (L)


Scale 1 : 245

Grid: 10 x 6 Points

Observer Position: (-60.000 m, 17.225 m, 1.500 m)

tarmac: R3, q_0 : 0.070

	L_{av} [cd/m^2]	U0	UI	TI [%]
Calculated values:	2.56	0.76	0.61	6
Required values according to class ME4a:	≥ 0.75	≥ 0.40	≥ 0.60	≤ 15
Fulfilled/Not fulfilled:	☒	☒	☒	☒