

Kursus Lampu Jalan Median ZGSM

Partner for Contact:

Order No.:

Company:

Customer No.:

Date: 11.03.2021

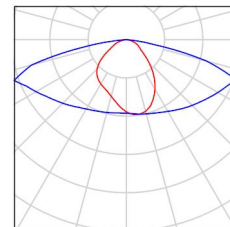
Operator:

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Kursus Lampu Jalan Median ZGSM / Luminaire parts list

14 Pieces LD180KL 1M 3030
Article No.:
Luminous flux (Luminaire): 23407 lm
Luminous flux (Lamps): 23400 lm
Luminaire Wattage: 180.0 W
Luminaire classification according to CIE: 100
CIE flux code: 43 76 96 100 100
Fitting: 1 x User defined (Correction Factor
1.000).

See our luminaire
catalog for an image of
the luminaire.



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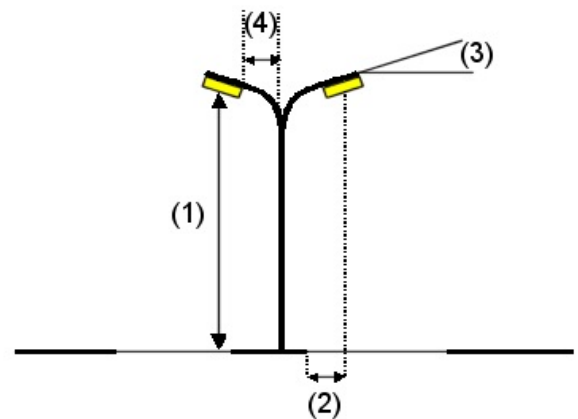
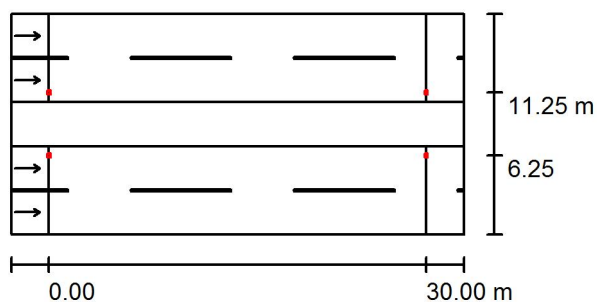
Street 1 / Planning data

Street Profile

Roadway 2	(Width: 7.000 m, Number of lanes: 2, tarmac: R3, q0: 0.070)
Median 1	(Width: 3.500 m, Height: 0.000 m)
Roadway 1	(Width: 7.000 m, Number of lanes: 2, tarmac: R3, q0: 0.070)

Light loss factor: 0.80

Luminaire Arrangements



Luminaire:	LD180KL 1M 3030
Luminous flux (Luminaire):	23407 lm
Luminous flux (Lamps):	23400 lm
Luminaire Wattage:	180.0 W
Arrangement:	on Median
Pole Distance:	30.000 m
Mounting Height (1):	10.100 m
Height:	10.100 m
Overhang (2):	0.750 m
Boom Angle (3):	5.0 °
Boom Length (4):	2.500 m

Maximum luminous intensities	
at 70°:	504 cd/klm
at 80°:	187 cd/klm
at 90°:	2.22 cd/klm

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

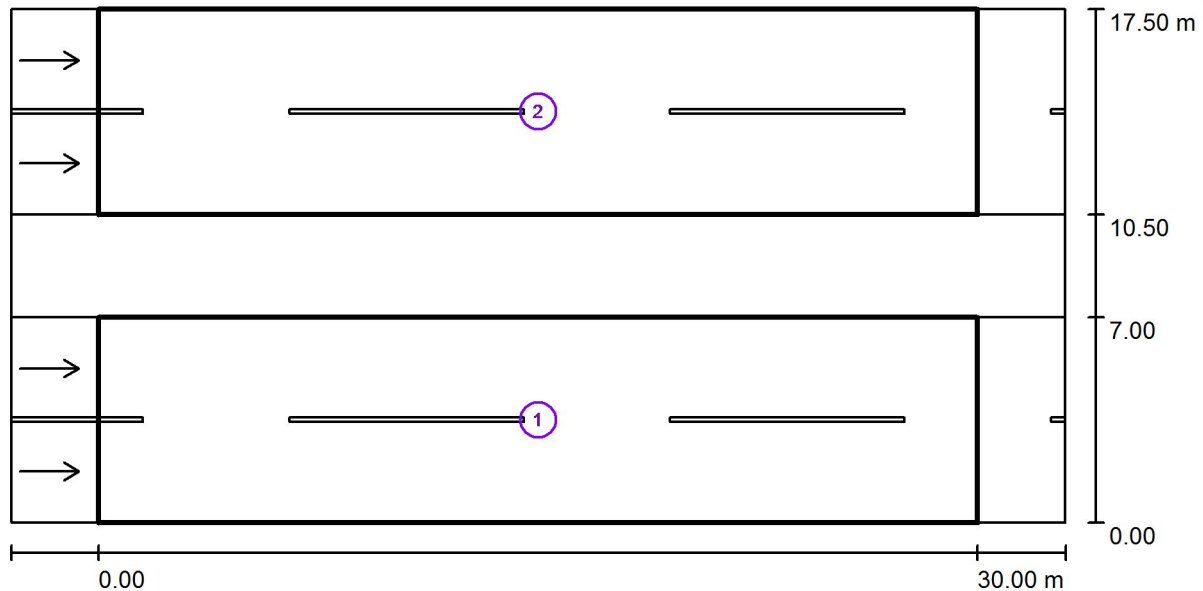
No luminous intensities above 95°.

Arrangement complies with luminous intensity class G1.

Arrangement complies with glare index class D.1.

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Street 1 / Photometric Results



Light loss factor: 0.80

Scale 1:258

Calculation Field List

- 1 Valuation Field Roadway 1
Length: 30.000 m, Width: 7.000 m
Grid: 10 x 6 Points
Accompanying Street Elements: Roadway 1.
tarmac: R3, q0: 0.070
Selected Lighting Class: ME2

(Not all lighting performance requirements are met.)

	L_{av} [cd/m ²]	U0	UI	TI [%]	SR
Calculated values:	3.77	0.39	0.83	14	0.82
Required values according to class:	≥ 1.50	≥ 0.40	≥ 0.70	≤ 10	≥ 0.50
Fulfilled/Not fulfilled:	✓	✗	✓	✗	✓

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Street 1 / Photometric Results

Calculation Field List

2 Valuation Field Roadway 2

Length: 30.000 m, Width: 7.000 m

Grid: 10 x 6 Points

Accompanying Street Elements: Roadway 2.

tarmac: R3, q0: 0.070

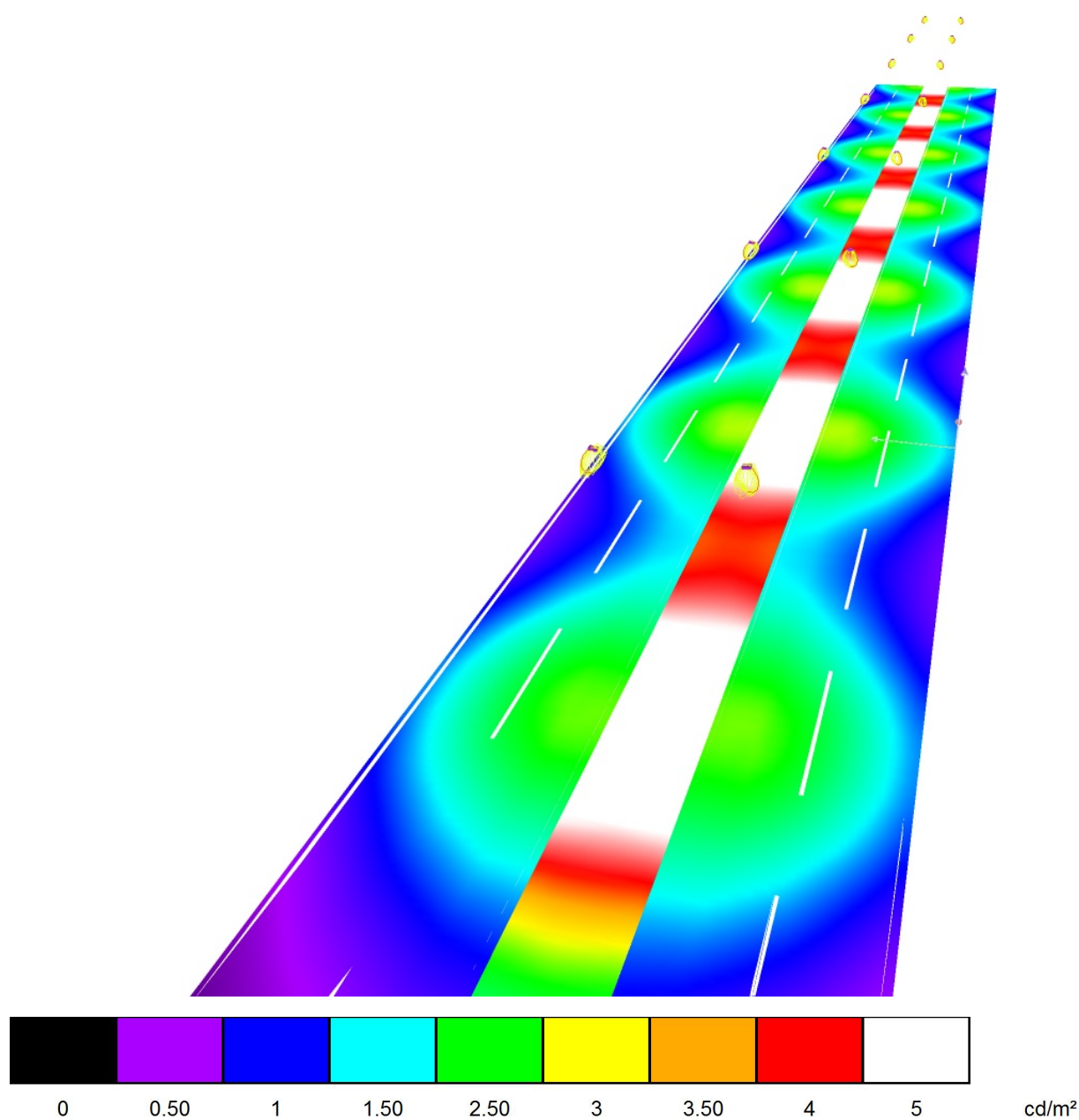
Selected Lighting Class: ME4a

(Not all lighting performance requirements are met.)

	L_{av} [cd/m ²]	U0	UI	TI [%]	SR
Calculated values:	3.63	0.39	0.82	13	0.82
Required values according to class:	≥ 0.75	≥ 0.40	≥ 0.60	≤ 15	≥ 0.50
Fulfilled/Not fulfilled:	✓	✗	✓	✓	✓

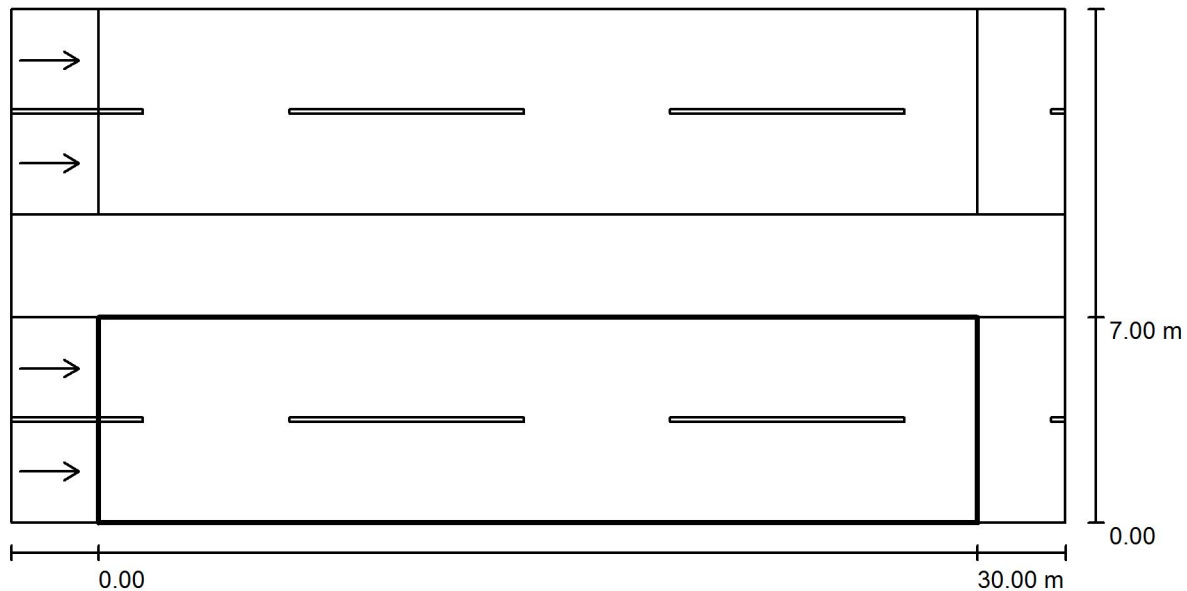
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Street 1 / False Color Rendering



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Street 1 / Valuation Field Roadway 1 / Results overview



Light loss factor: 0.80

Scale 1:258

Grid: 10 x 6 Points

Accompanying Street Elements: Roadway 1.

tarmac: R3, q0: 0.070

Selected Lighting Class: ME2

(Not all lighting performance requirements are met.)

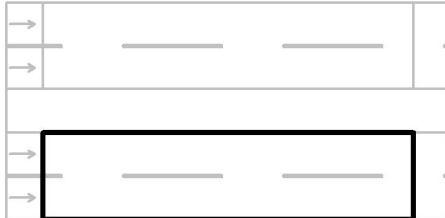
	L_{av} [cd/m ²]	U0	UI	TI [%]	SR
Calculated values:	3.77	0.39	0.83	14	0.82
Required values according to class:	≥ 1.50	≥ 0.40	≥ 0.70	≤ 10	≥ 0.50
Fulfilled/Not fulfilled:	✓	✗	✓	✗	✓

Assigned observer (2 Pieces):

No.	Observer	Position [m]	L_{av} [cd/m ²]	U0	UI	TI [%]
1	Observer 1	(-60.000, 1.750, 1.500)	4.10	0.40	0.83	7
2	Observer 2	(-60.000, 5.250, 1.500)	3.77	0.39	0.92	14

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Street 1 / Valuation Field Roadway 1 / Table (E)



6.417	<u>90</u>	80	65	55	49	49	54	64	78	88
5.250	88	77	63	51	45	45	51	62	77	88
4.083	81	70	57	47	41	41	46	57	71	81
2.917	71	62	49	40	34	34	40	50	62	71
1.750	59	51	40	33	29	29	33	40	51	59
0.583	46	39	32	26	<u>24</u>	<u>24</u>	26	32	40	46
m	1.500	4.500	7.500	10.500	13.500	16.500	19.500	22.500	25.500	28.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 10 x 6 Points

E_{av} [lx]
53

E_{min} [lx]
24

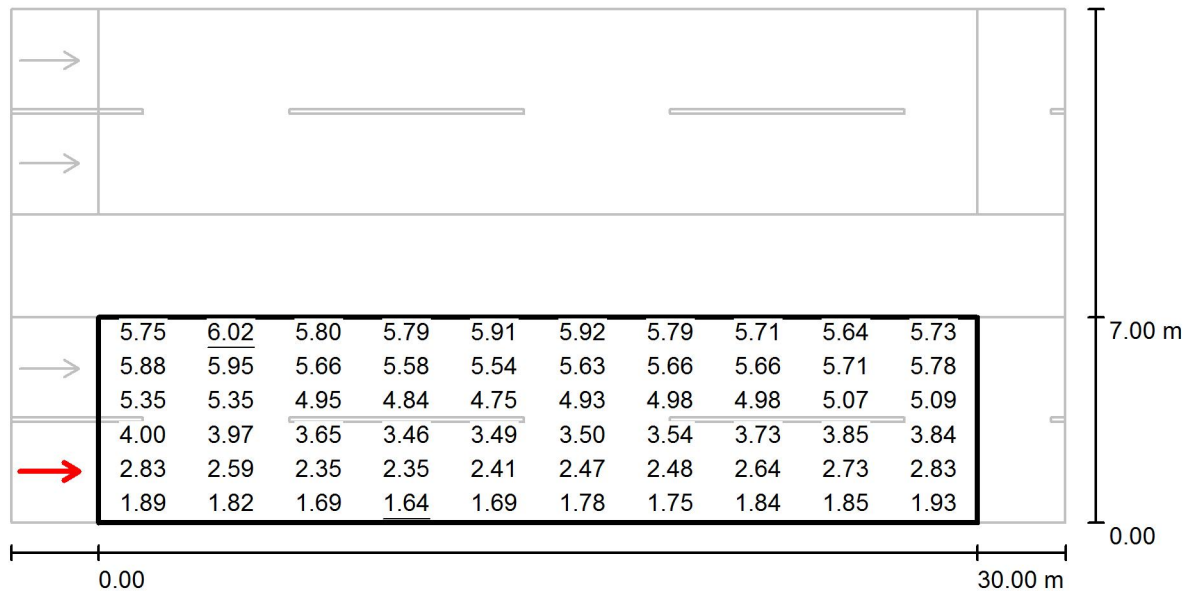
E_{max} [lx]
90

u_0
0.445

E_{min} / E_{max}
0.263

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Street 1 / Valuation Field Roadway 1 / Observer 1 / Value Chart (L)



Values in Candela/m², Scale 1 : 258

Grid: 10 x 6 Points

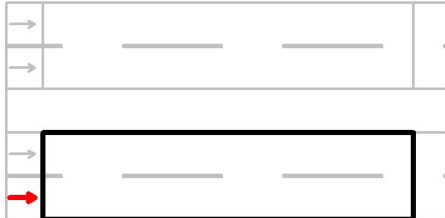
Observer Position: (-60.000 m, 1.750 m, 1.500 m)

tarmac: R3, q0: 0.070

	L_{av} [cd/m ²]	U0	UI	TI [%]
Calculated values:	4.10	0.40	0.83	7
Required values according to class ME2:	≥ 1.50	≥ 0.40	≥ 0.70	≤ 10
Fulfilled/Not fulfilled:	✓	✓	✓	✓

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Street 1 / Valuation Field Roadway 1 / Observer 1 / Table (L)



6.417	5.75	6.02	5.80	5.79	5.91	5.92	5.79	5.71	5.64	5.73
5.250	5.88	5.95	5.66	5.58	5.54	5.63	5.66	5.66	5.71	5.78
4.083	5.35	5.35	4.95	4.84	4.75	4.93	4.98	4.98	5.07	5.09
2.917	4.00	3.97	3.65	3.46	3.49	3.50	3.54	3.73	3.85	3.84
1.750	2.83	2.59	2.35	2.35	2.41	2.47	2.48	2.64	2.73	2.83
0.583	1.89	1.82	1.69	1.64	1.69	1.78	1.75	1.84	1.85	1.93
m	1.500	4.500	7.500	10.500	13.500	16.500	19.500	22.500	25.500	28.500

Attention: The coordinates refer to the image above. Values in Candela/m².

Grid: 10 x 6 Points

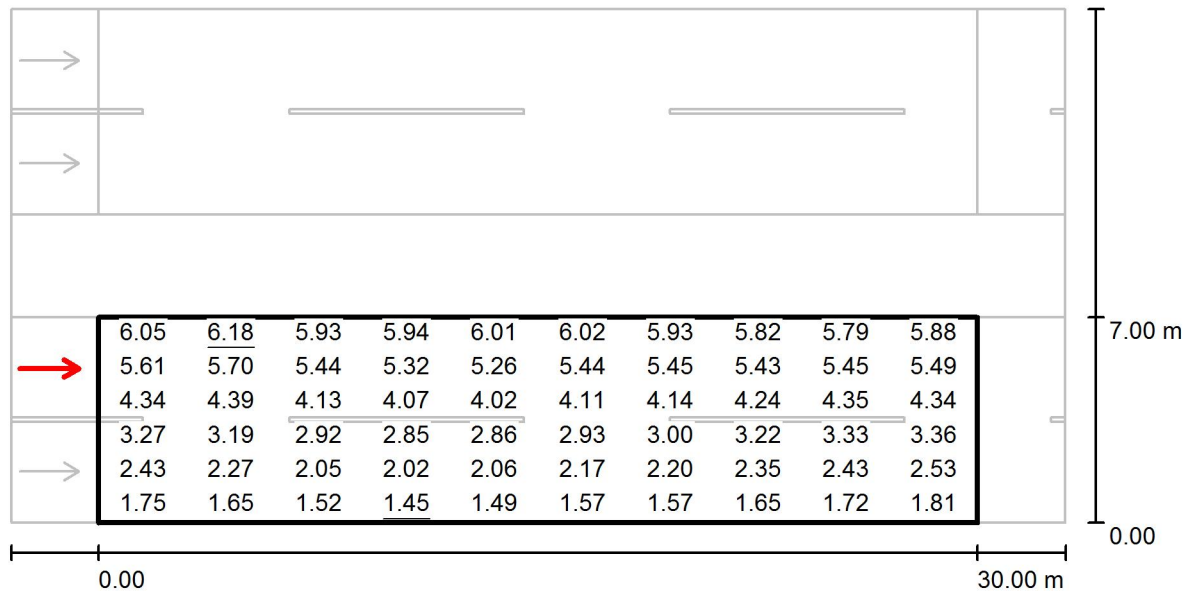
Observer Position: (-60.000 m, 1.750 m, 1.500 m)

tarmac: R3, q0: 0.070

	L_{av} [cd/m²]	U0	UI	TI [%]
Calculated values:	4.10	0.40	0.83	7
Required values according to class ME2:	≥ 1.50	≥ 0.40	≥ 0.70	≤ 10
Fulfilled/Not fulfilled:	✓	✓	✓	✓

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Street 1 / Valuation Field Roadway 1 / Observer 2 / Value Chart (L)



Values in Candela/m², Scale 1 : 258

Grid: 10 x 6 Points

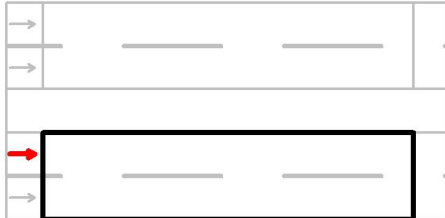
Observer Position: (-60.000 m, 5.250 m, 1.500 m)

tarmac: R3, q0: 0.070

	L_{av} [cd/m ²]	U0	UI	TI [%]
Calculated values:	3.77	0.39	0.92	14
Required values according to class ME2:	≥ 1.50	≥ 0.40	≥ 0.70	≤ 10
Fulfilled/Not fulfilled:	✓	✗	✓	✗

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Street 1 / Valuation Field Roadway 1 / Observer 2 / Table (L)



6.417	6.05	6.18	5.93	5.94	6.01	6.02	5.93	5.82	5.79	5.88
5.250	5.61	5.70	5.44	5.32	5.26	5.44	5.45	5.43	5.45	5.49
4.083	4.34	4.39	4.13	4.07	4.02	4.11	4.14	4.24	4.35	4.34
2.917	3.27	3.19	2.92	2.85	2.86	2.93	3.00	3.22	3.33	3.36
1.750	2.43	2.27	2.05	2.02	2.06	2.17	2.20	2.35	2.43	2.53
0.583	1.75	1.65	1.52	1.45	1.49	1.57	1.57	1.65	1.72	1.81
m	1.500	4.500	7.500	10.500	13.500	16.500	19.500	22.500	25.500	28.500

Attention: The coordinates refer to the image above. Values in Candela/m².

Grid: 10 x 6 Points

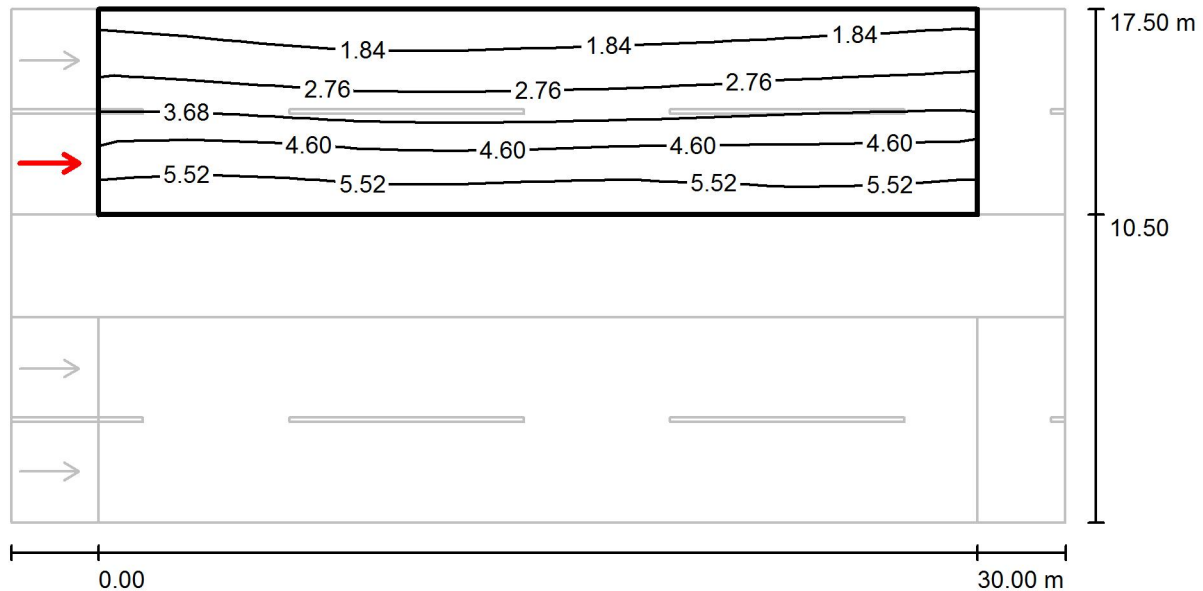
Observer Position: (-60.000 m, 5.250 m, 1.500 m)

tarmac: R3, q0: 0.070

	L_{av} [cd/m²]	U0	UI	TI [%]
Calculated values:	3.77	0.39	0.92	14
Required values according to class ME2:	≥ 1.50	≥ 0.40	≥ 0.70	≤ 10
Fulfilled/Not fulfilled:	✓	✗	✓	✗

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Street 1 / Valuation Field Roadway 2 / Observer 3 / Isolines (L)



Values in Candela/m², Scale 1 : 258

Grid: 10 x 6 Points

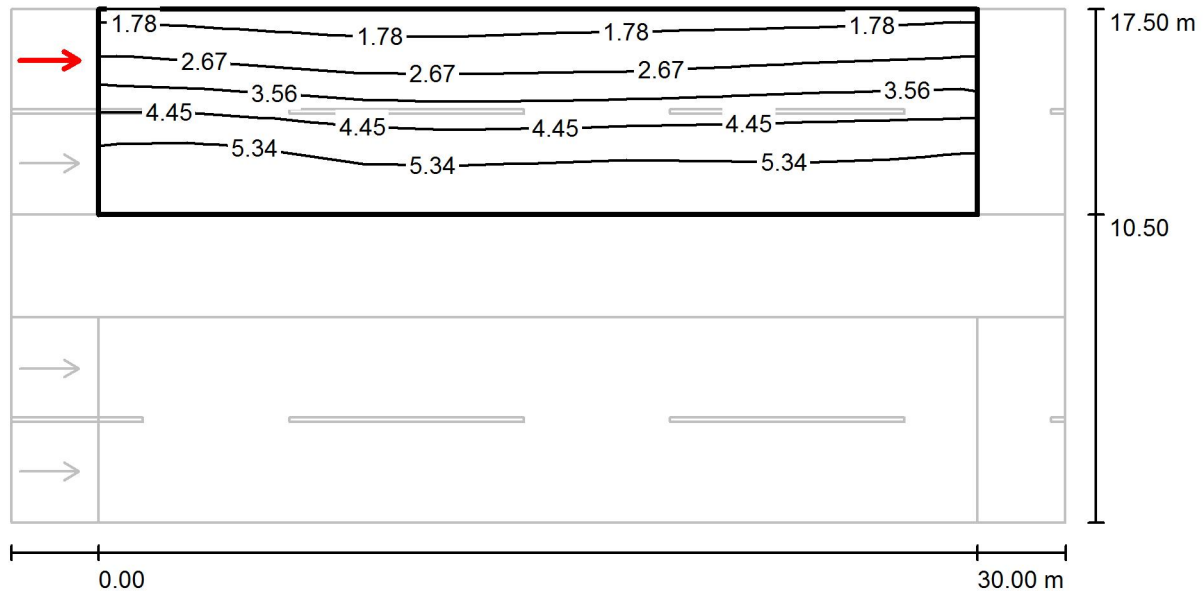
Observer Position: (-60.000 m, 12.250 m, 1.500 m)

tarmac: R3, q0: 0.070

	L_{av} [cd/m ²]	U0	UI	TI [%]
Calculated values:	3.63	0.39	0.92	13
Required values according to class ME4a:	≥ 0.75	≥ 0.40	≥ 0.60	≤ 15
Fulfilled/Not fulfilled:	✓	✗	✓	✓

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Street 1 / Valuation Field Roadway 2 / Observer 4 / Isolines (L)



Values in Candela/m², Scale 1 : 258

Grid: 10 x 6 Points

Observer Position: (-60.000 m, 15.750 m, 1.500 m)

tarmac: R3, q0: 0.070

	L_{av} [cd/m ²]	U0	UI	TI [%]
Calculated values:	3.95	0.39	0.82	6
Required values according to class ME4a:	≥ 0.75	≥ 0.40	≥ 0.60	≤ 15
Fulfilled/Not fulfilled:	☒	☐	☒	☒