

Roadway

Partner for Contact:
Order No.:
Company:
Customer No.:

Date: 04.11.2019
Operator:



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e-Mail

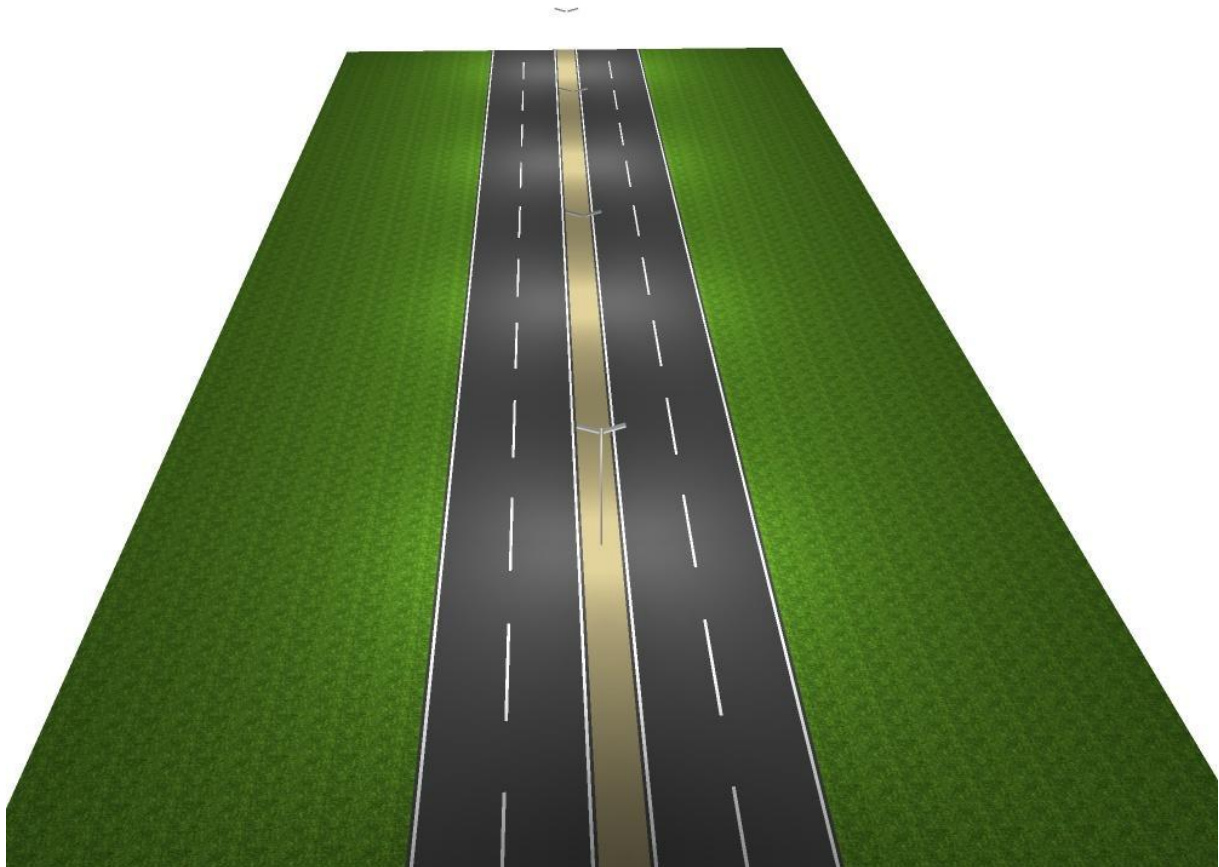
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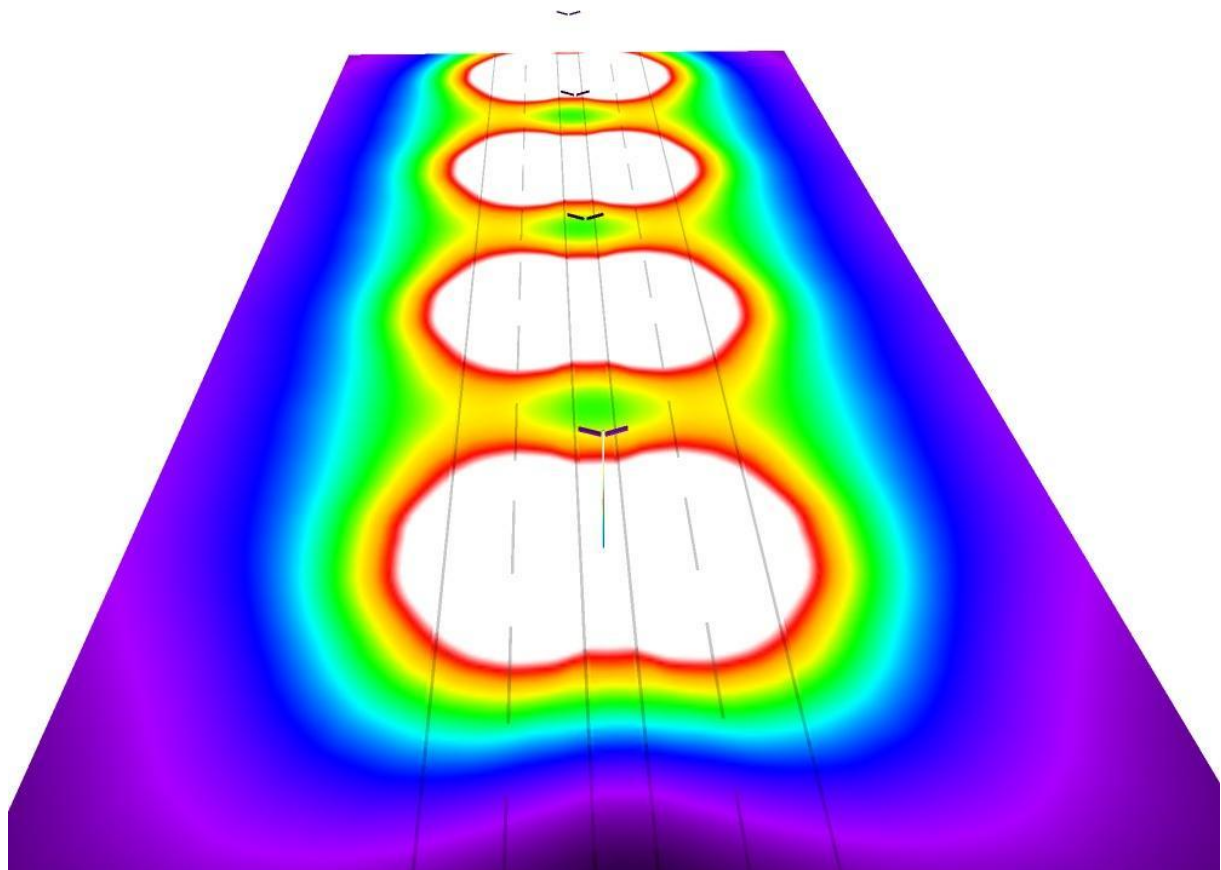
Roadway / 3D Rendering





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Roadway / False Color Rendering



0 1.88 3.75 5.63 7.50 9.38 11.25 13.13 15 lx



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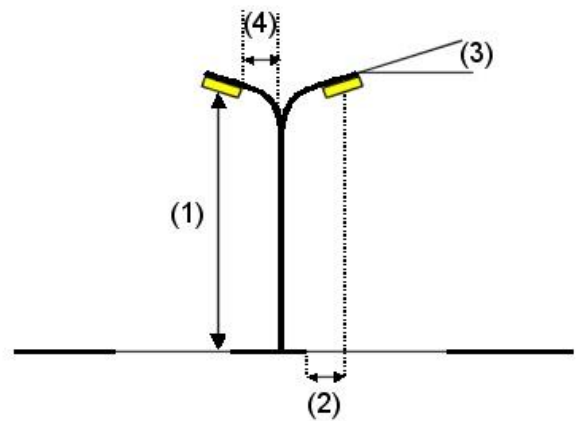
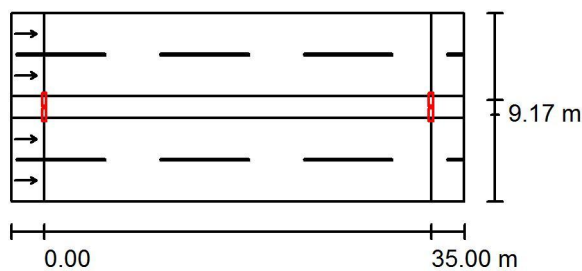
Street 1 / Planning data

Street Profile

Roadway 2 (Width: 7.500 m, Number of lanes: 2, tarmac: R3, q0: 0.070)
 Median 1 (Width: 2.000 m, Height: 0.000 m)
 Roadway 1 (Width: 7.500 m, Number of lanes: 2, tarmac: R3, q0: 0.070)

Light loss factor: 0.80

Luminaire Arrangements



Luminaire: 100W Solar Light
 Luminous flux (Luminaire): 16227 lm
 Luminous flux (Lamps): 16235 lm
 Luminaire Wattage: 100.0 W
 Arrangement: on Median
 Pole Distance: 35.000 m
 Mounting Height (1): 6.800 m
 Height: 6.704 m
 Overhang (2): -0.300 m
 Boom Angle (3): 16.0 °
 Boom Length (4): 0.672 m

Maximum luminous intensities
 at 70°: 446 cd/klm
 at 80°: 500 cd/klm
 at 90°: 145 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.

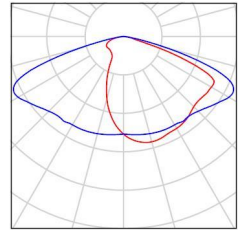


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Street 1 / Luminaire parts list

100W Solar Light
Article No.:
Luminous flux (Luminaire): 16227 lm
Luminous flux (Lamps): 16235 lm
Luminaire Wattage: 100.0 W
Luminaire classification according to DIN: A20
CIE flux code: 35 66 95 100 100
Fitting: 1 x 5050 (Correction Factor 1.000).

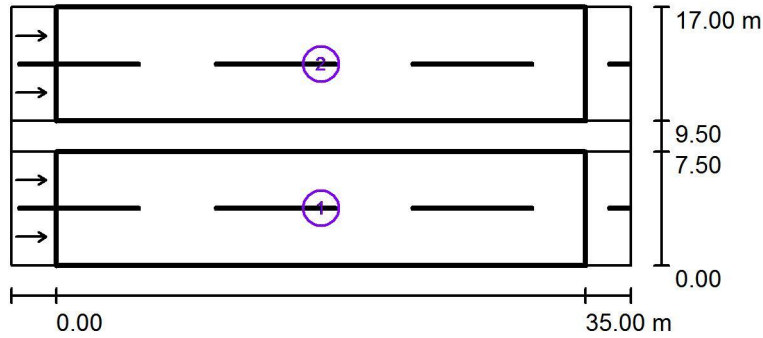
See our luminaire
catalog for an image of
the luminaire.





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Street 1 / Photometric Results



Light loss factor: 0.80

Scale 1:500

Calculation Field List

- 1 Valuation Field Roadway 1
Length: 35.000 m, Width: 7.500 m
Grid: 12 x 6 Points
Accompanying Street Elements: Roadway 1.
tarmac: R3, q0: 0.070
Selected Lighting Class: ME4a

L_{av} [cd/m ²]	U0	UI	TI [%]	SR
1.40	0.45	0.41	17	0.78



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Street 1 / Photometric Results

Calculation Field List

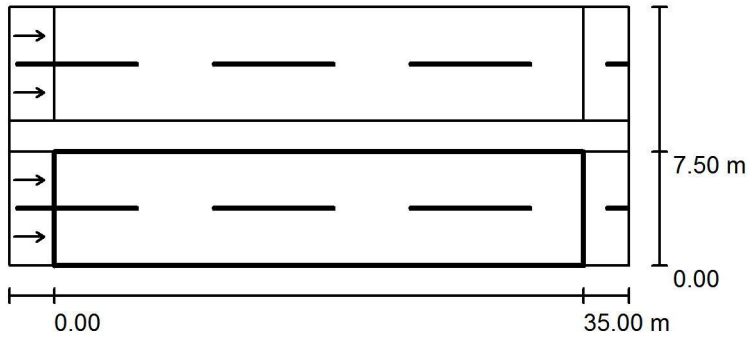
- 2 Valuation Field Roadway 2
Length: 35.000 m, Width: 7.500 m
Grid: 12 x 6 Points
Accompanying Street Elements: Roadway 2.
tarmac: R3, q0: 0.070
Selected Lighting Class: ME4a

L_{av} [cd/m ²]	U0	UI	TI [%]	SR
1.40	0.45	0.41	17	0.78



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Street 1 / Valuation Field Roadway 1 / Results overview



Light loss factor: 0.80

Scale 1:500

Grid: 12 x 6 Points

Accompanying Street Elements: Roadway 1.

tarmac: R3, q0: 0.070

Selected Lighting Class: ME4a

L_{av} [cd/m ²]	U0	UI	TI [%]	SR
1.40	0.45	0.41	17	0.78

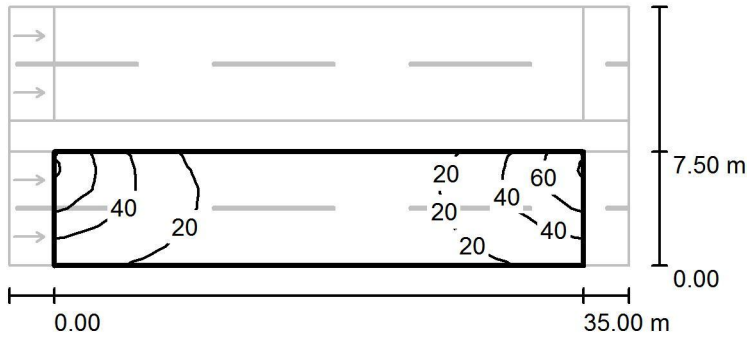
Assigned observer (2 Pieces):

No.	Observer	Position [m]	L_{av} [cd/m ²]	U0	UI	TI [%]
1	Observer 1	(-60.000, 1.875, 1.500)	1.53	0.45	0.67	11
2	Observer 2	(-60.000, 5.625, 1.500)	1.40	0.46	0.41	17



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



Values in Lux, Scale 1 : 500

Grid: 12 x 6 Points

E_{av} [lx]
 25

E_{min} [lx]
 8.49

E_{max} [lx]
 72

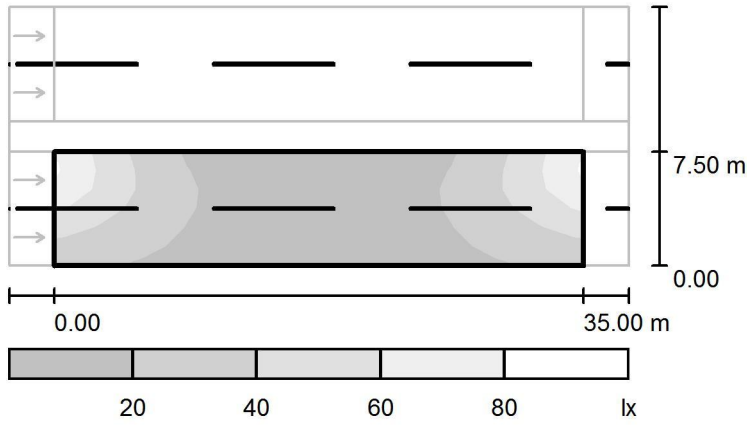
u_0
 0.335

E_{min} / E_{max}
 0.118



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



Scale 1 : 500

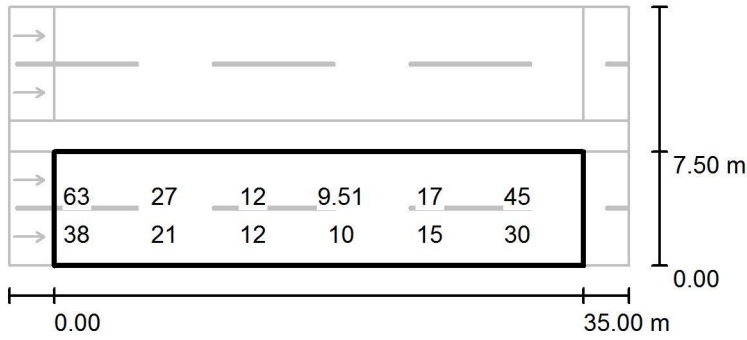
Grid: 12 x 6 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
25	8.49	72	0.335	0.118



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Street 1 / Valuation Field Roadway 1 / Value Chart (E)



Values in Lux, Scale 1 : 500

Not all calculated values could be displayed.

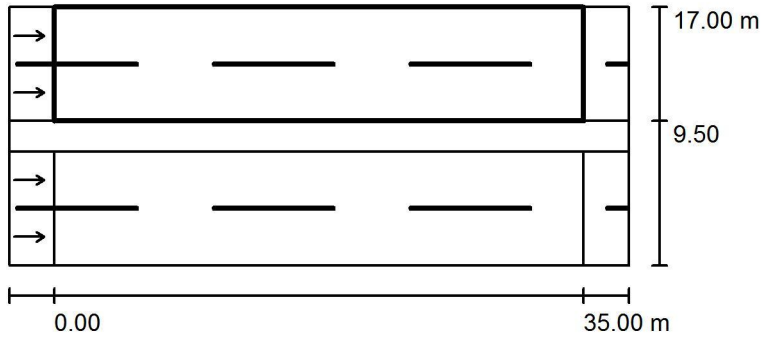
Grid: 12 x 6 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
25	8.49	72	0.335	0.118



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Street 1 / Valuation Field Roadway 2 / Results overview



Light loss factor: 0.80

Scale 1:500

Grid: 12 x 6 Points

Accompanying Street Elements: Roadway 2.

tarmac: R3, q0: 0.070

Selected Lighting Class: ME4a

L_{av} [cd/m ²]	U0	UI	TI [%]	SR
1.40	0.45	0.41	17	0.78

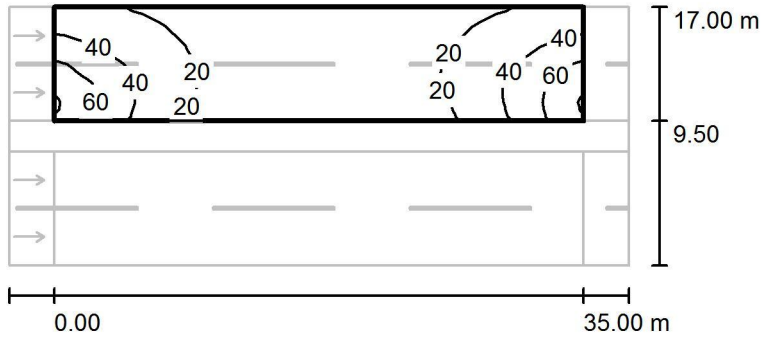
Assigned observer (2 Pieces):

No.	Observer	Position [m]	L_{av} [cd/m ²]	U0	UI	TI [%]
1	Observer 3	(-60.000, 11.375, 1.500)	1.40	0.46	0.41	17
2	Observer 4	(-60.000, 15.125, 1.500)	1.53	0.45	0.67	11



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Street 1 / Valuation Field Roadway 2 / Isolines (E)



Values in Lux, Scale 1 : 500

Grid: 12 x 6 Points

E_{av} [lx]
 25

E_{min} [lx]
 8.49

E_{max} [lx]
 72

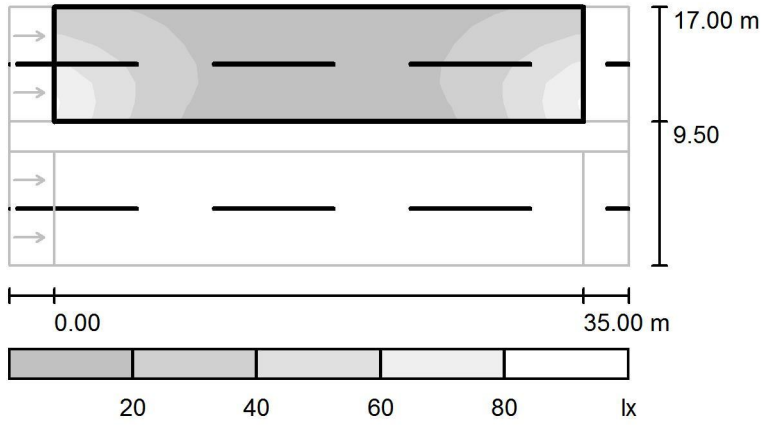
u_0
 0.335

E_{min} / E_{max}
 0.118



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Street 1 / Valuation Field Roadway 2 / Greyscale (E)



Scale 1 : 500

Grid: 12 x 6 Points

E_{av} [lx]
25

E_{min} [lx]
8.49

E_{max} [lx]
72

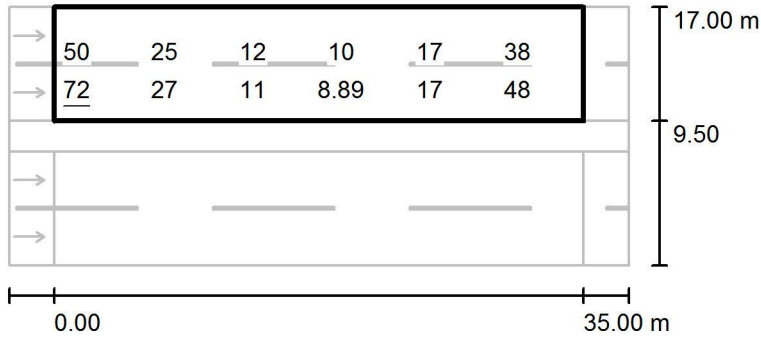
u0
0.335

E_{min} / E_{max}
0.118



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Street 1 / Valuation Field Roadway 2 / Value Chart (E)



Values in Lux, Scale 1 : 500

Not all calculated values could be displayed.

Grid: 12 x 6 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
25	8.49	72	0.335	0.118