

Street lighting

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

Date: 05.08.2016
Operator:

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Street lighting

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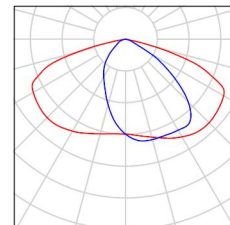
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Street lighting / Luminaire parts list

32 Pieces ST07-180 4000K Ra70 75150DEG R17601
Article No.:
Luminous flux (Luminaire): 19461 lm
Luminous flux (Lamps): 19486 lm
Luminaire Wattage: 180.5 W
Luminaire classification according to CIE: 100
CIE flux code: 44 80 98 100 100
Fitting: 1 x ST07-180 4000K Ra70 75150DEG
R17601 (Correction Factor 1.000).

See our luminaire
catalog for an image of
the luminaire.



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Street 0503(ME2) / Planning data

Street Profile

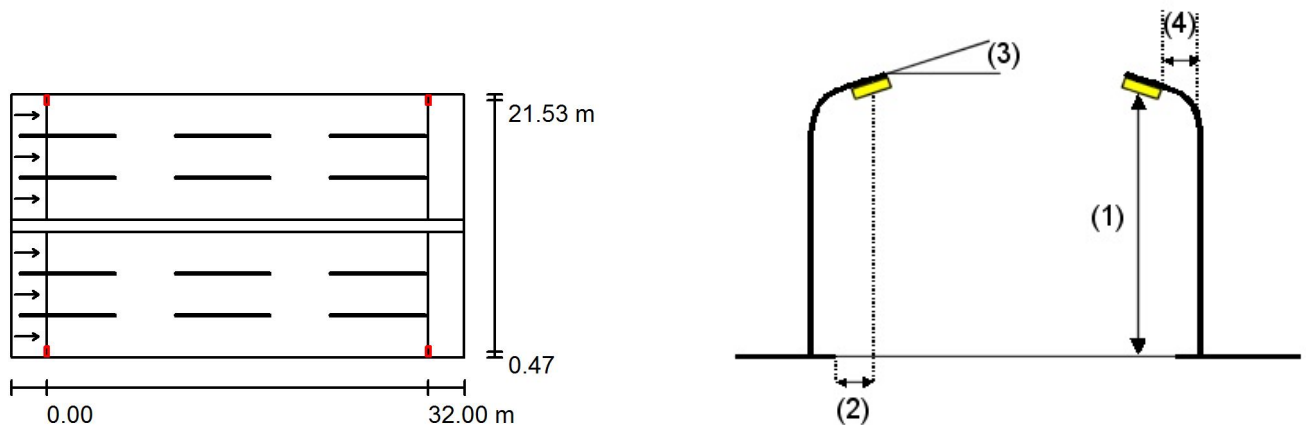
Roadway 2 (Width: 10.500 m, Number of lanes: 3, tarmac: R3, q0: 0.070)

Median 1 (Width: 1.000 m, Height: 0.000 m)

Roadway 1 (Width: 10.500 m, Number of lanes: 3, tarmac: R3, q0: 0.070)

Light loss factor: 0.70

Luminaire Arrangements



Luminaire: ST07-180 4000K Ra70 75150DEG R17601
 Luminous flux (Luminaire): 19461 lm
 Luminous flux (Lamps): 19486 lm
 Luminaire Wattage: 180.5 W
 Arrangement: Double row, opposing
 Pole Distance: 32.000 m
 Mounting Height (1): 12.000 m
 Height: 11.852 m
 Overhang (2): 0.500 m
 Boom Angle (3): 10.0 °
 Boom Length (4): 2.000 m

Maximum luminous intensities

at 70°: 419 cd/klm

at 80°: 211 cd/klm

at 90°: 4.53 cd/klm

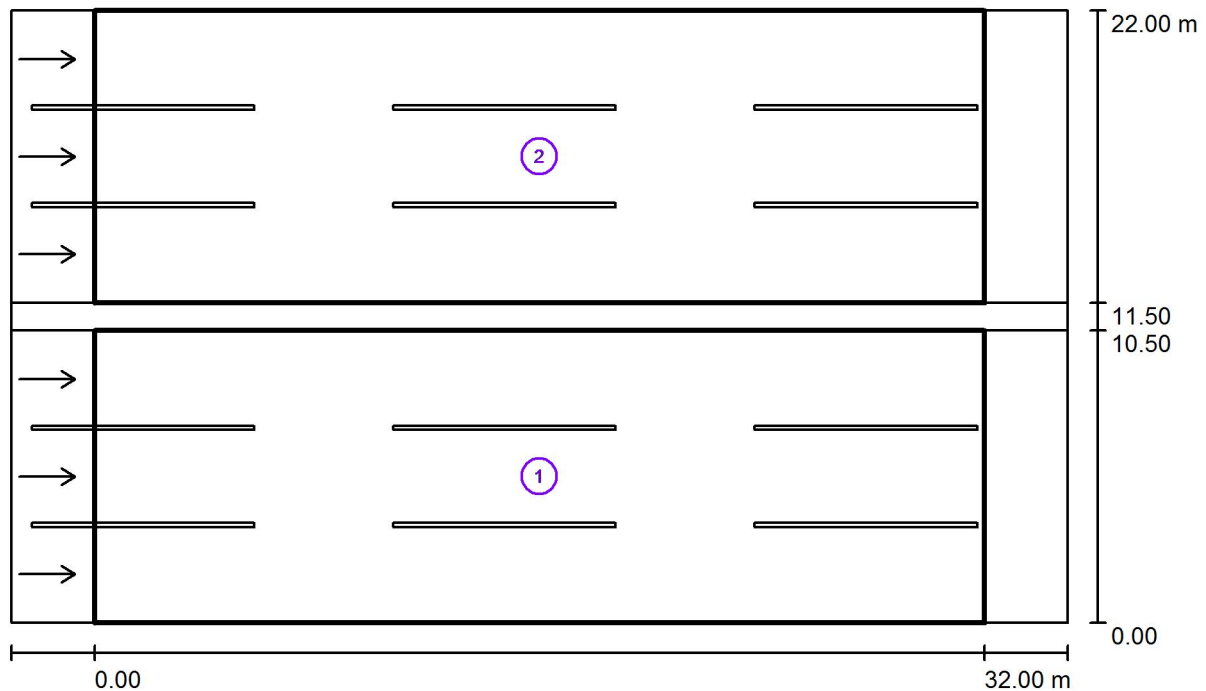
Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

Arrangement complies with glare index class D.6.

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Street 0503(ME2) / Photometric Results



Light loss factor: 0.70

Scale 1:272

Calculation Field List

- 1 Valuation Field Roadway 1
Length: 32.000 m, Width: 10.500 m
Grid: 11 x 9 Points
Accompanying Street Elements: Roadway 1.
tarmac: R3, q0: 0.070
Selected Lighting Class: ME2

(All lighting performance requirements are met.)

	L_{av} [cd/m ²]	U0	UI	TI [%]	SR
Calculated values:	1.51	0.77	0.90	7	0.79
Required values according to class:	≥ 1.50	≥ 0.40	≥ 0.70	≤ 10	≥ 0.50
Fulfilled/Not fulfilled:	✓	✓	✓	✓	✓

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Street 0503(ME2) / Photometric Results

Calculation Field List

- 2 Valuation Field Roadway 2
Length: 32.000 m, Width: 10.500 m
Grid: 11 x 9 Points
Accompanying Street Elements: Roadway 2.
tarmac: R3, q0: 0.070
Selected Lighting Class: ME2

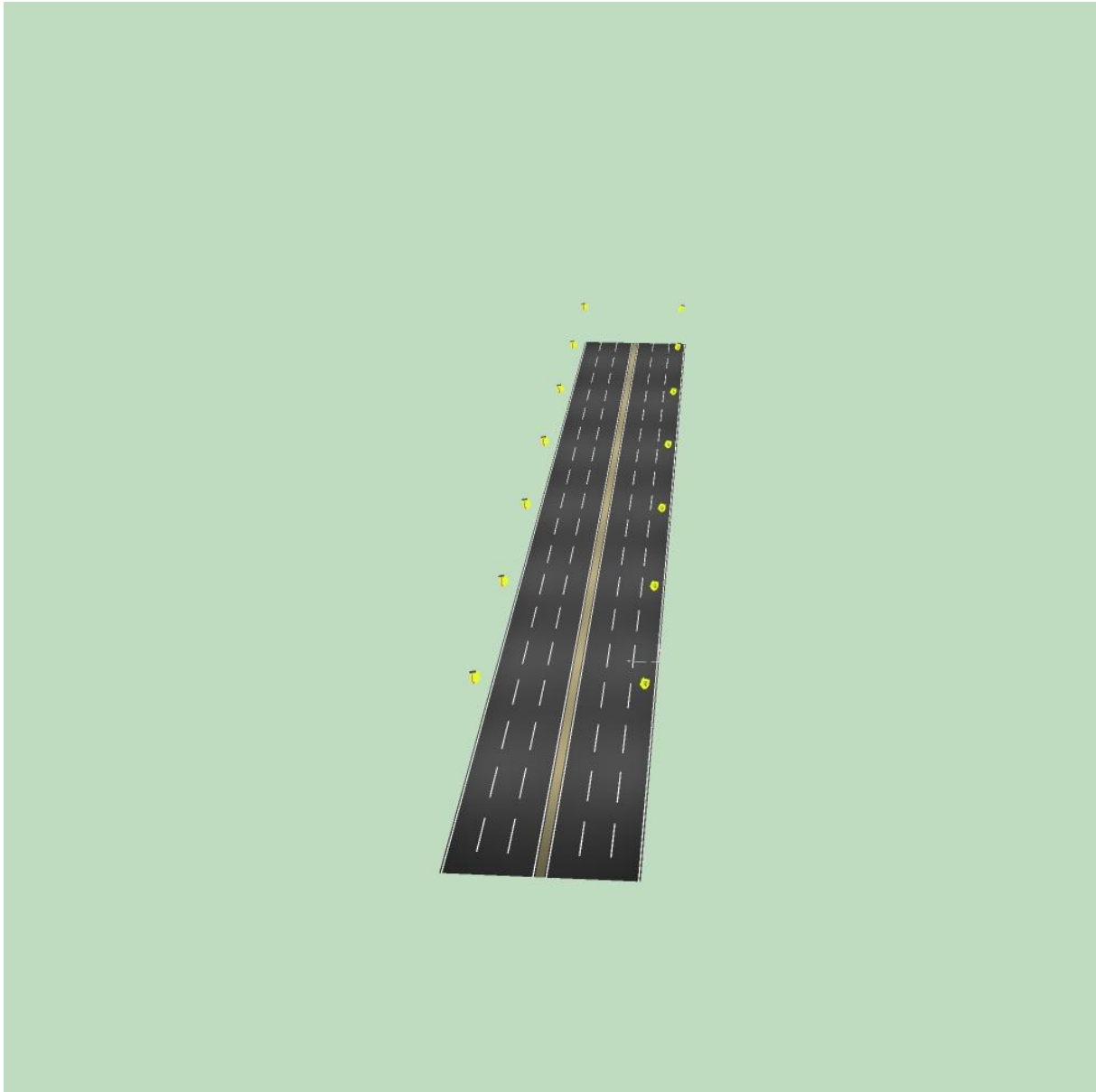
(All lighting performance requirements are met.)

	L_{av} [cd/m ²]	U0	UI	TI [%]	SR
Calculated values:	1.51	0.78	0.91	7	0.79
Required values according to class:	≥ 1.50	≥ 0.40	≥ 0.70	≤ 10	≥ 0.50
Fulfilled/Not fulfilled:	✓	✓	✓	✓	✓

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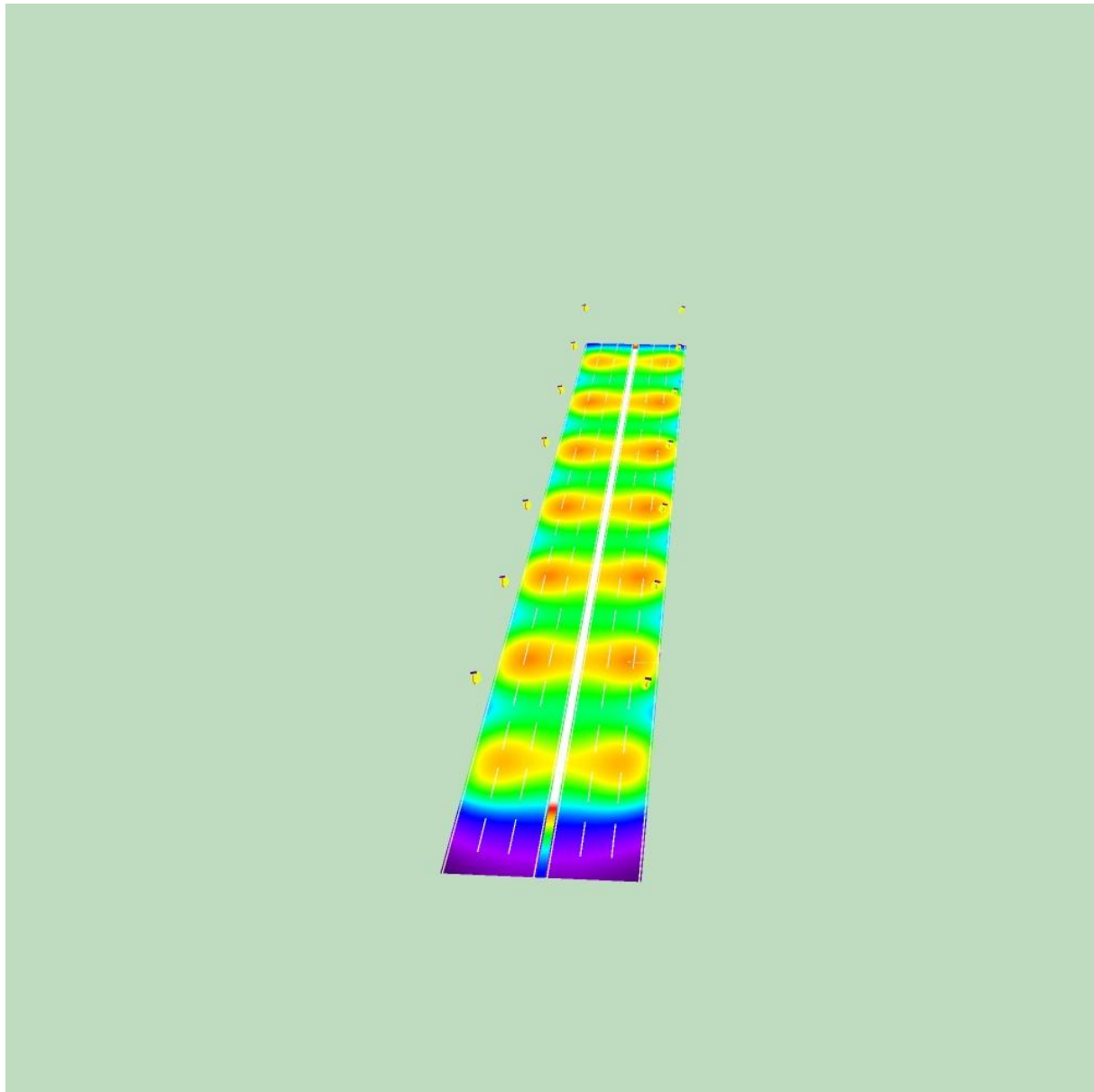
Street 0503(ME2) / 3D Rendering



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Street 0503(ME2) / False Color Rendering



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Street 0503(ME1) / Planning data

Street Profile

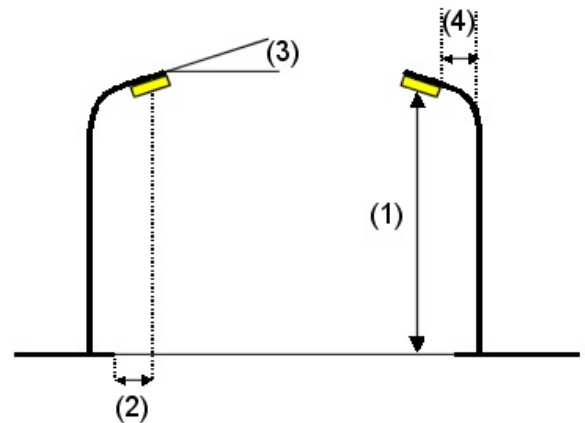
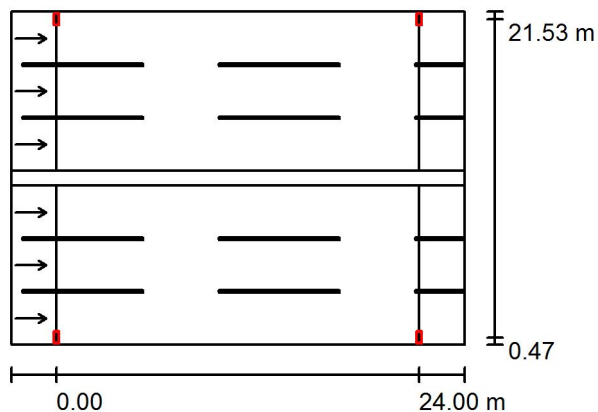
Roadway 2 (Width: 10.500 m, Number of lanes: 3, tarmac: R3, q0: 0.070)

Median 1 (Width: 1.000 m, Height: 0.000 m)

Roadway 1 (Width: 10.500 m, Number of lanes: 3, tarmac: R3, q0: 0.070)

Light loss factor: 0.70

Luminaire Arrangements



Luminaire: ST07-180 4000K Ra70 75150DEG R17601
 Luminous flux (Luminaire): 19461 lm
 Luminous flux (Lamps): 19486 lm
 Luminaire Wattage: 180.5 W
 Arrangement: Double row, opposing
 Pole Distance: 24.000 m
 Mounting Height (1): 12.000 m
 Height: 11.852 m
 Overhang (2): 0.500 m
 Boom Angle (3): 10.0 °
 Boom Length (4): 2.000 m

Maximum luminous intensities

at 70°: 419 cd/klm
 at 80°: 211 cd/klm
 at 90°: 4.53 cd/klm

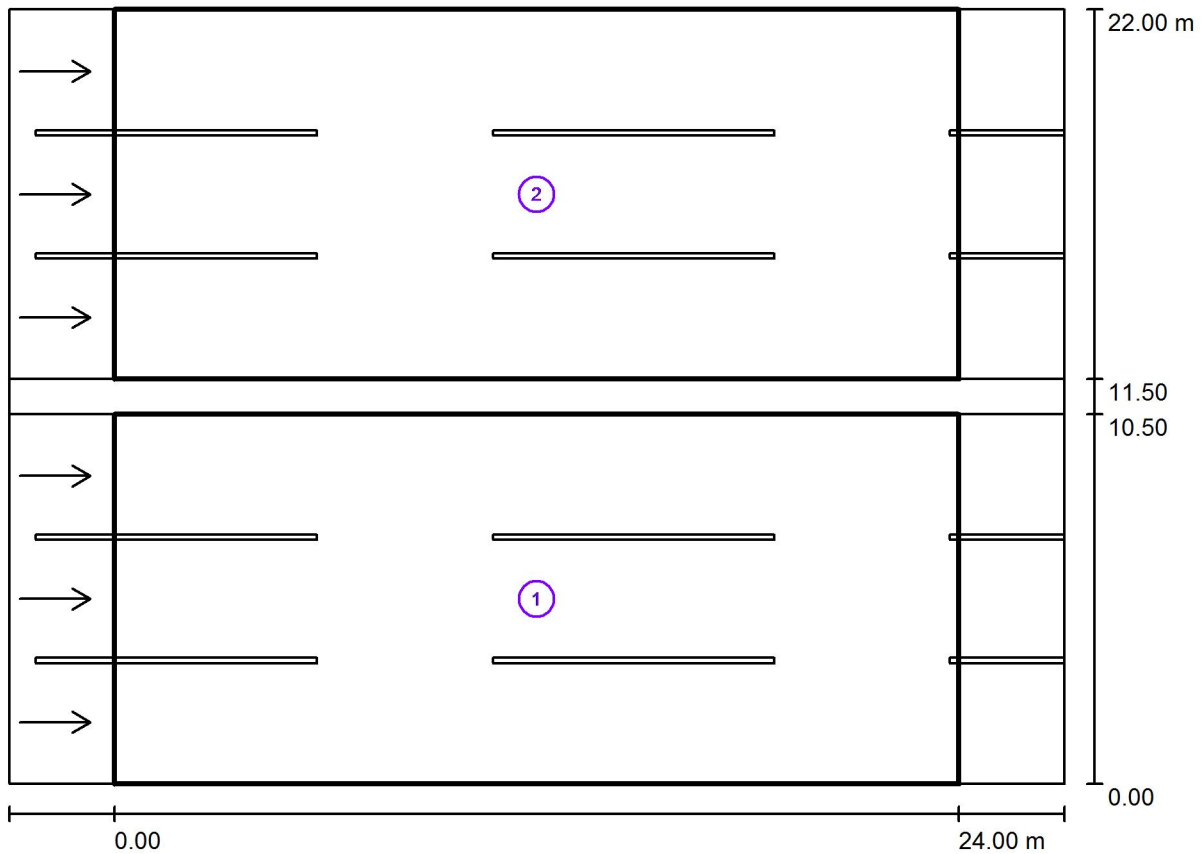
Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.

Arrangement complies with glare index class D.6.

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Street 0503(ME1) / Photometric Results



Light loss factor: 0.70

Scale 1:215

Calculation Field List

- 1 Valuation Field Roadway 1
 Length: 24.000 m, Width: 10.500 m
 Grid: 10 x 9 Points
 Accompanying Street Elements: Roadway 1.
 tarmac: R3, q0: 0.070
 Selected Lighting Class: ME1

(All lighting performance requirements are met.)

	L_{av} [cd/m ²]	U0	UI	TI [%]	SR
Calculated values:	2.02	0.76	0.93	7	0.79
Required values according to class:	≥ 2.00	≥ 0.40	≥ 0.70	≤ 10	≥ 0.50
Fulfilled/Not fulfilled:	✓	✓	✓	✓	✓

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Street 0503(ME1) / Photometric Results

Calculation Field List

- 2 Valuation Field Roadway 2
Length: 24.000 m, Width: 10.500 m
Grid: 10 x 9 Points
Accompanying Street Elements: Roadway 2.
tarmac: R3, q0: 0.070
Selected Lighting Class: ME1

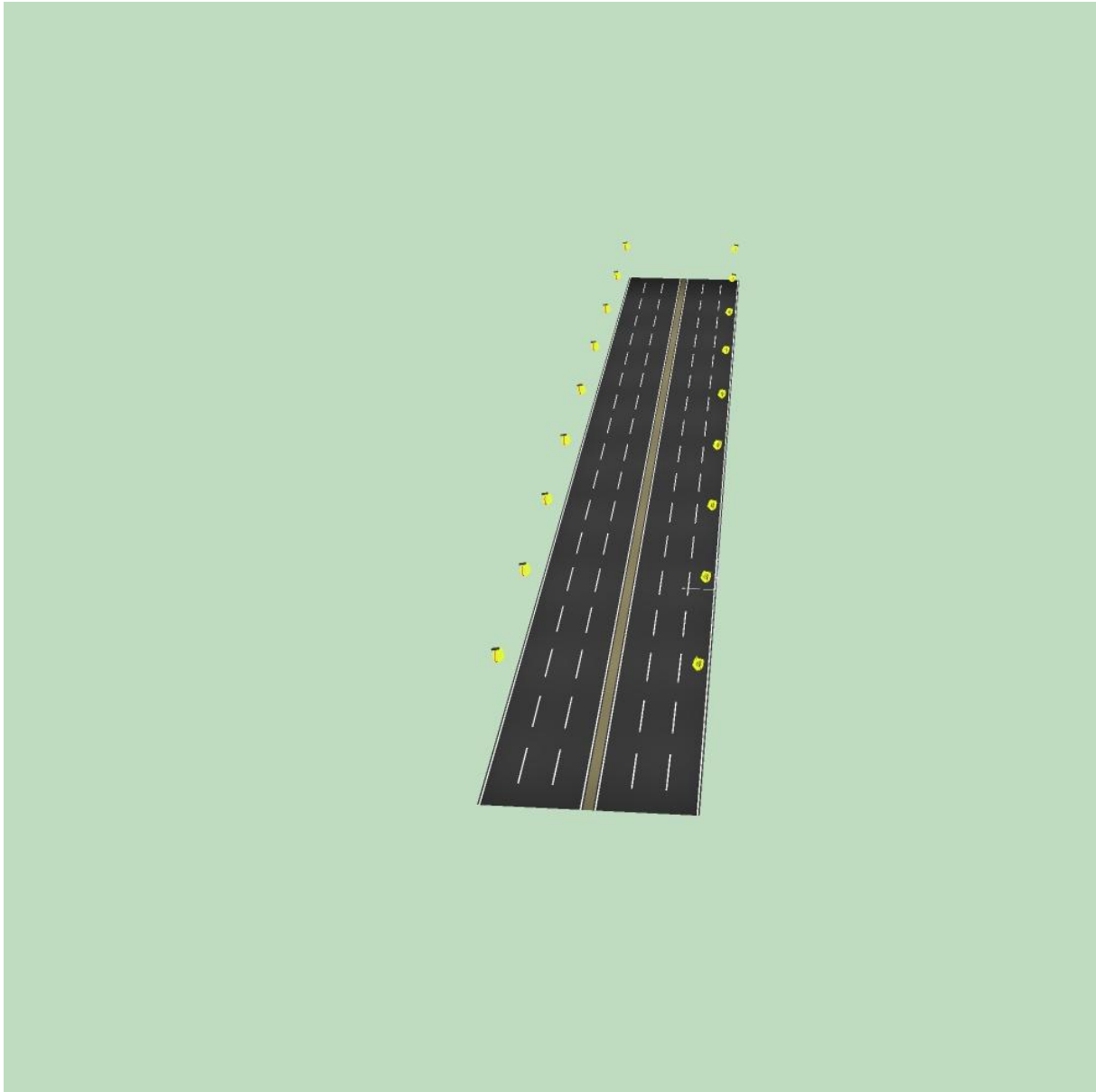
(All lighting performance requirements are met.)

	L_{av} [cd/m ²]	U0	UI	TI [%]	SR
Calculated values:	2.02	0.77	0.93	7	0.79
Required values according to class:	≥ 2.00	≥ 0.40	≥ 0.70	≤ 10	≥ 0.50
Fulfilled/Not fulfilled:	✓	✓	✓	✓	✓

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Street 0503(ME1) / False Color Rendering

