

Project-0922 (AN-SLA-120W)

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

Date: 22.09.2022
Operator:

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Project-0922 (AN-SLA-120W)

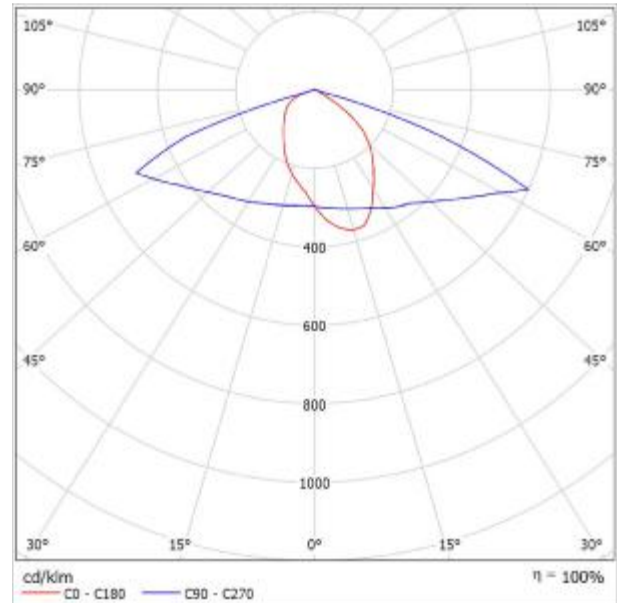
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AN-SLA-120W All-in-one solar street light / Luminaire Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 100
 CIE flux code: 45 81 98 100 100

Due to missing symmetry properties, no UGR table can be displayed for this luminaire.

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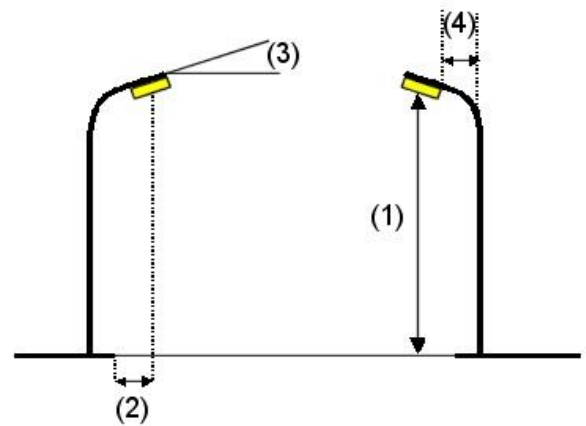
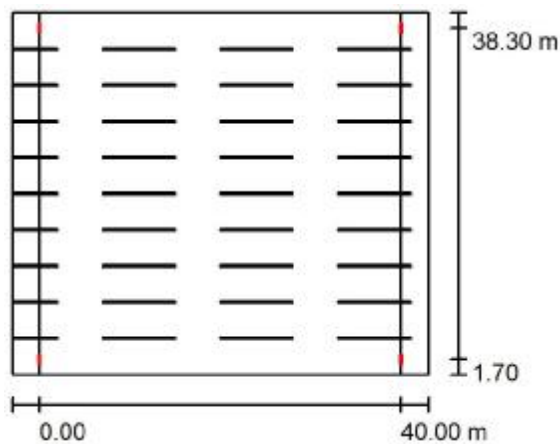
Street 1 / Planning data

Street Profile

Roadway 1 (Width: 40.000 m, Number of lanes: 10, tarmac: R3, q0: 0.070)

Light loss factor: 0.67

Luminaire Arrangements



Luminaire:	AN-SLA-120W All-in-one solar street light
Luminous flux (Luminaire):	20035 lm
Luminous flux (Lamps):	20026 lm
Luminaire Wattage:	120.0 W
Arrangement:	Double row, opposing
Pole Distance:	40.000 m
Mounting Height (1):	10.000 m
Height:	10.000 m
Overhang (2):	1.700 m
Boom Angle (3):	20.0 °
Boom Length (4):	1.200 m

Maximum luminous intensities

at 70°:	529 cd/klm
at 80°:	72 cd/klm
at 90°:	11 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.

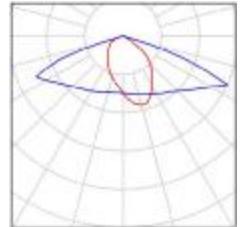
Arrangement complies with glare index class D.3.

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Street 1 / Luminaire parts list

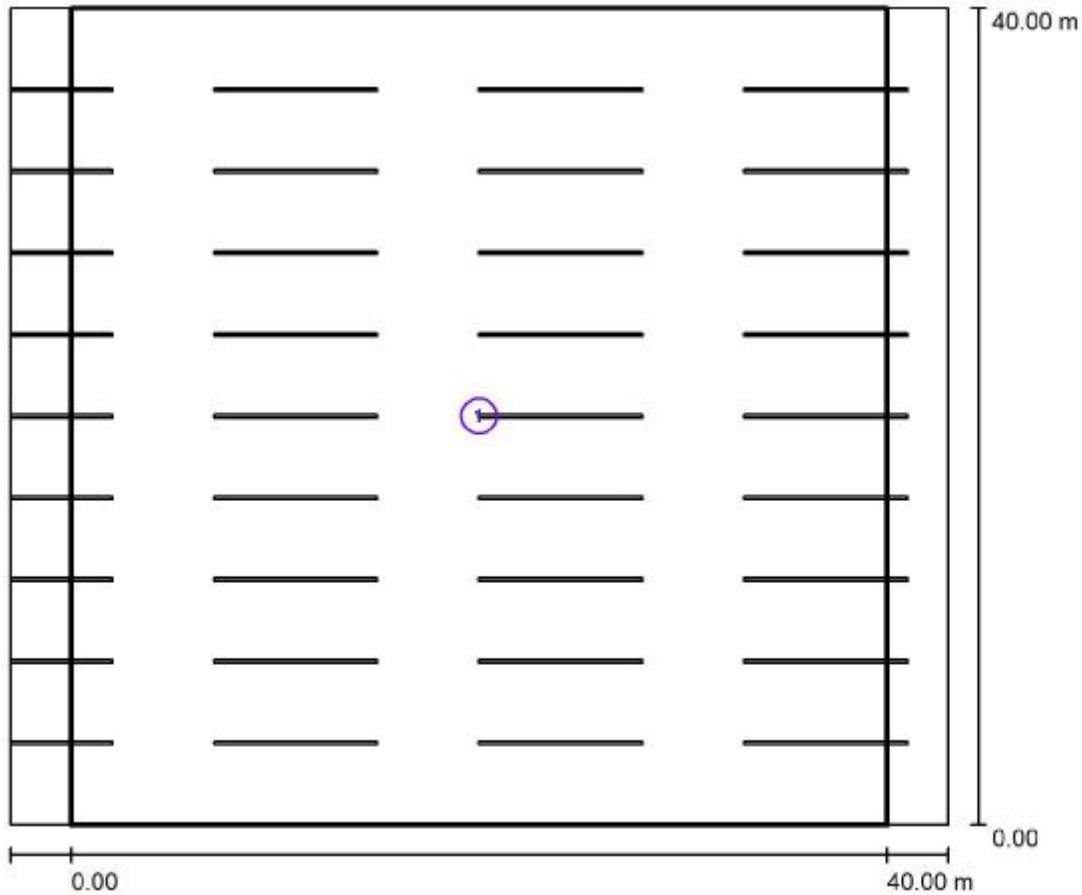
AN-SLA-120W All-in-one solar street light
Article No.: AN-SLA-120W
Luminous flux (Luminaire): 20035 lm
Luminous flux (Lamps): 20026 lm
Luminaire Wattage: 120.0 W
Luminaire classification according to CIE: 100
CIE flux code: 45 81 98 100 100
Fitting: 1 x User defined (Correction Factor 1.000).

See our luminaire catalog for an image of the luminaire.



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Street 1 / Photometric Results



Light loss factor: 0.67

Scale 1:371

Calculation Field List

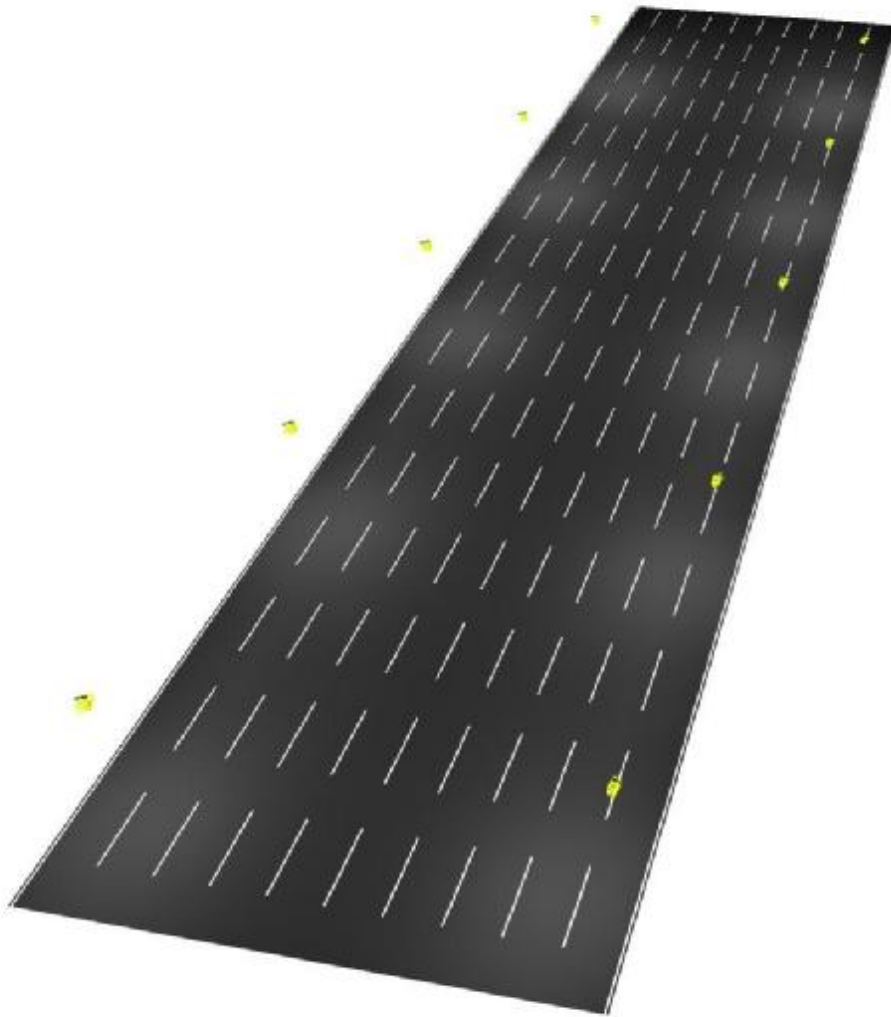
- 1 Valuation Field Roadway 1
 Length: 40.000 m, Width: 40.000 m
 Grid: 14 x 27 Points
 Accompanying Street Elements: Roadway 1.
 Selected Lighting Class: CE4 (All lighting performance requirements are met.)

Calculated values:	E_{av} [lx]	U0
Required values according to class:	13.82	0.44
Fulfilled/Not fulfilled:	≥ 10.00	≥ 0.40
	✓	✓



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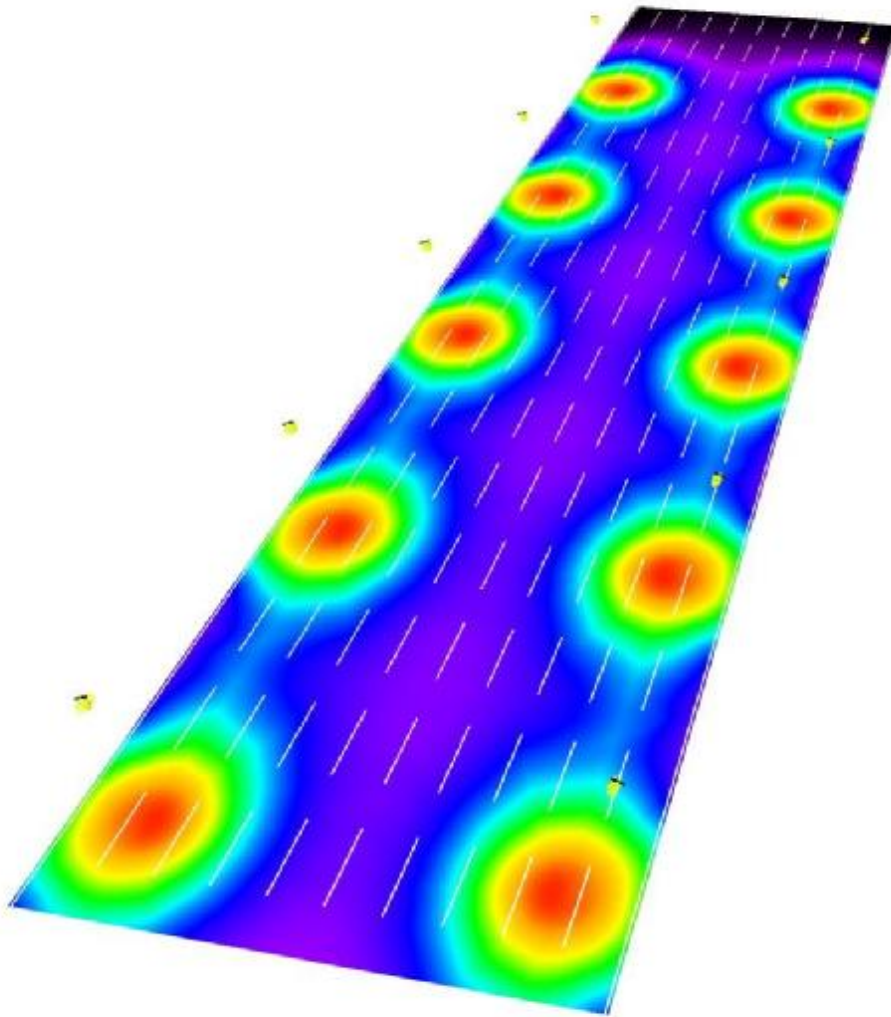
Street 1 / 3D Rendering





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Street 1 / False Color Rendering

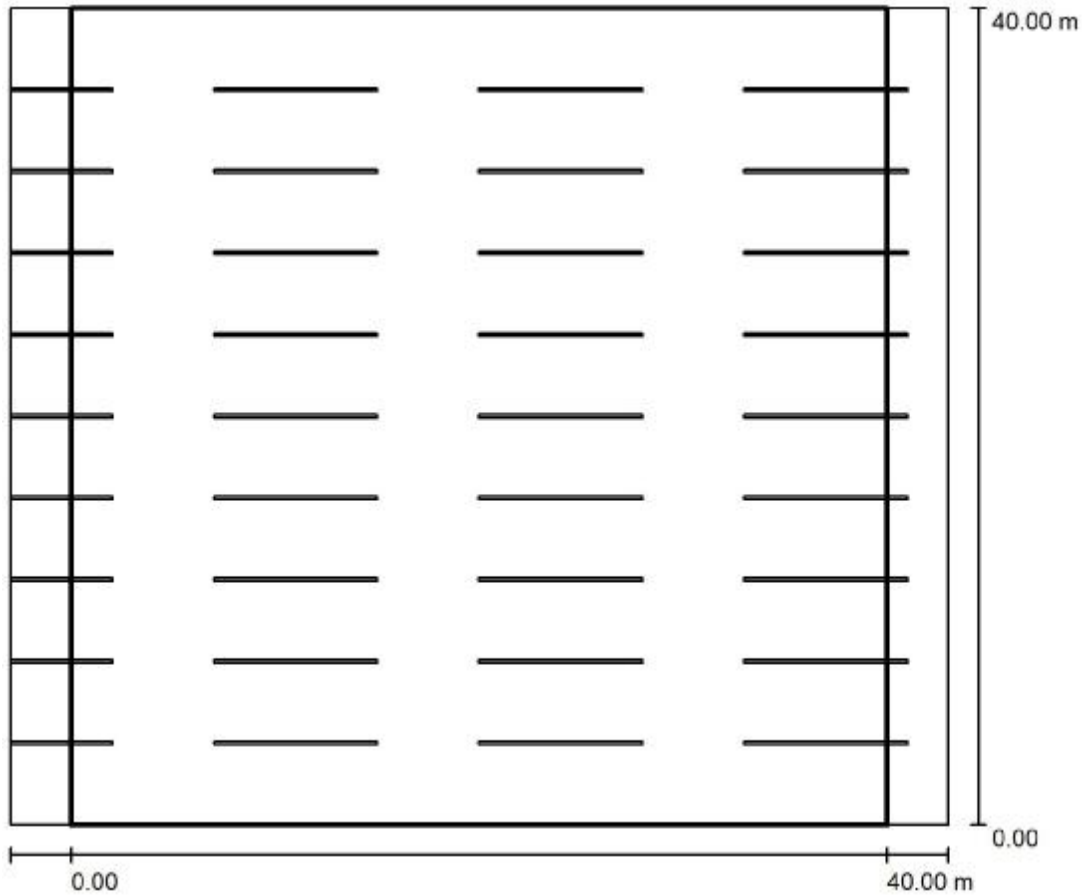


0 5 10 15 20 25 30 35 40

lx

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Street 1 / Valuation Field Roadway 1 / Results overview



Light loss factor: 0.67

Scale 1:371

Grid: 14 x 27 Points

Accompanying Street Elements: Roadway 1.

Selected Lighting Class: CE4

(All lighting performance requirements are met.)

Calculated values:

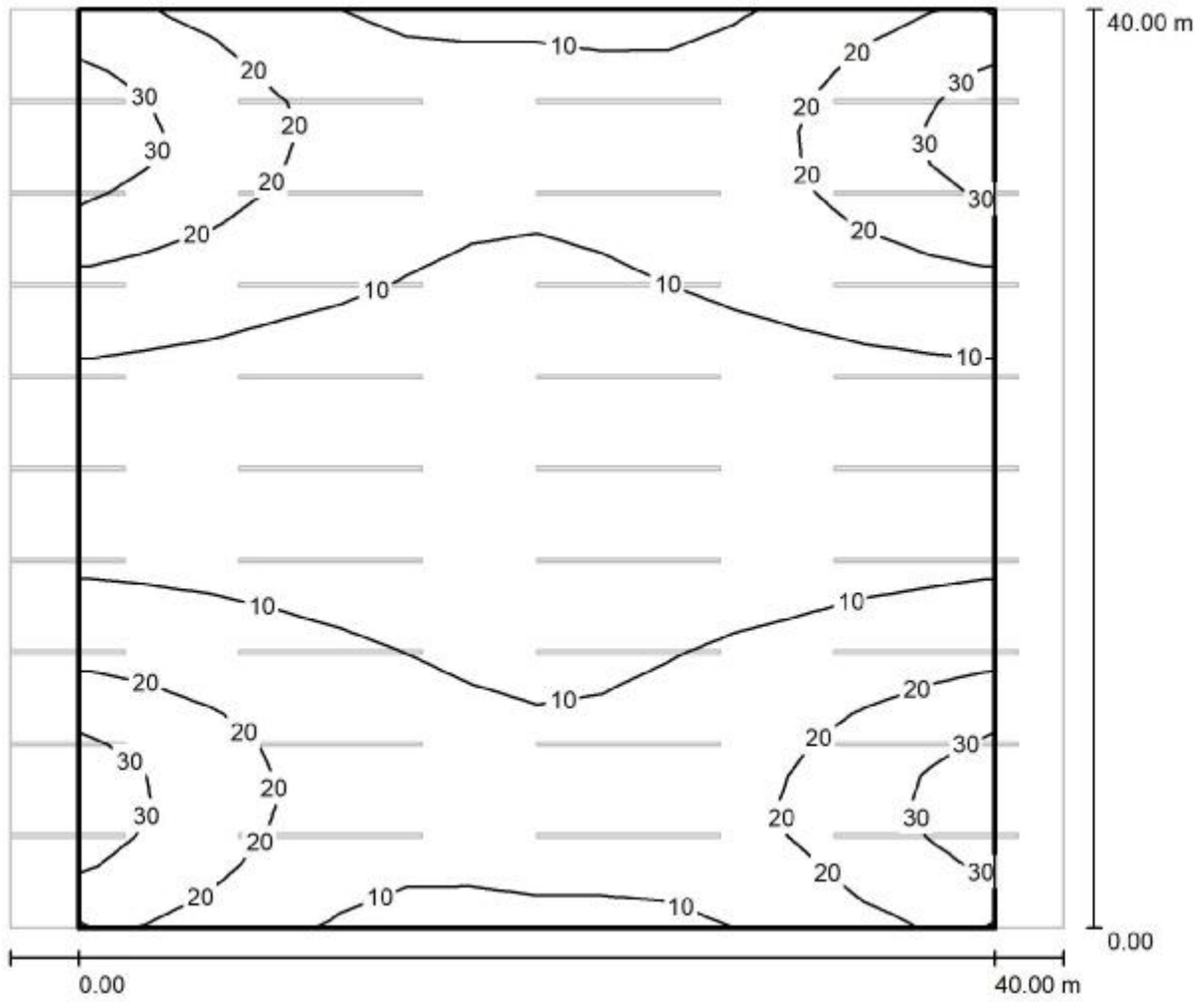
Required values according to class:

Fulfilled/Not fulfilled:

E_{av} [lx]	U0
13.82	0.44
≥ 10.00	≥ 0.40
✓	✓

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



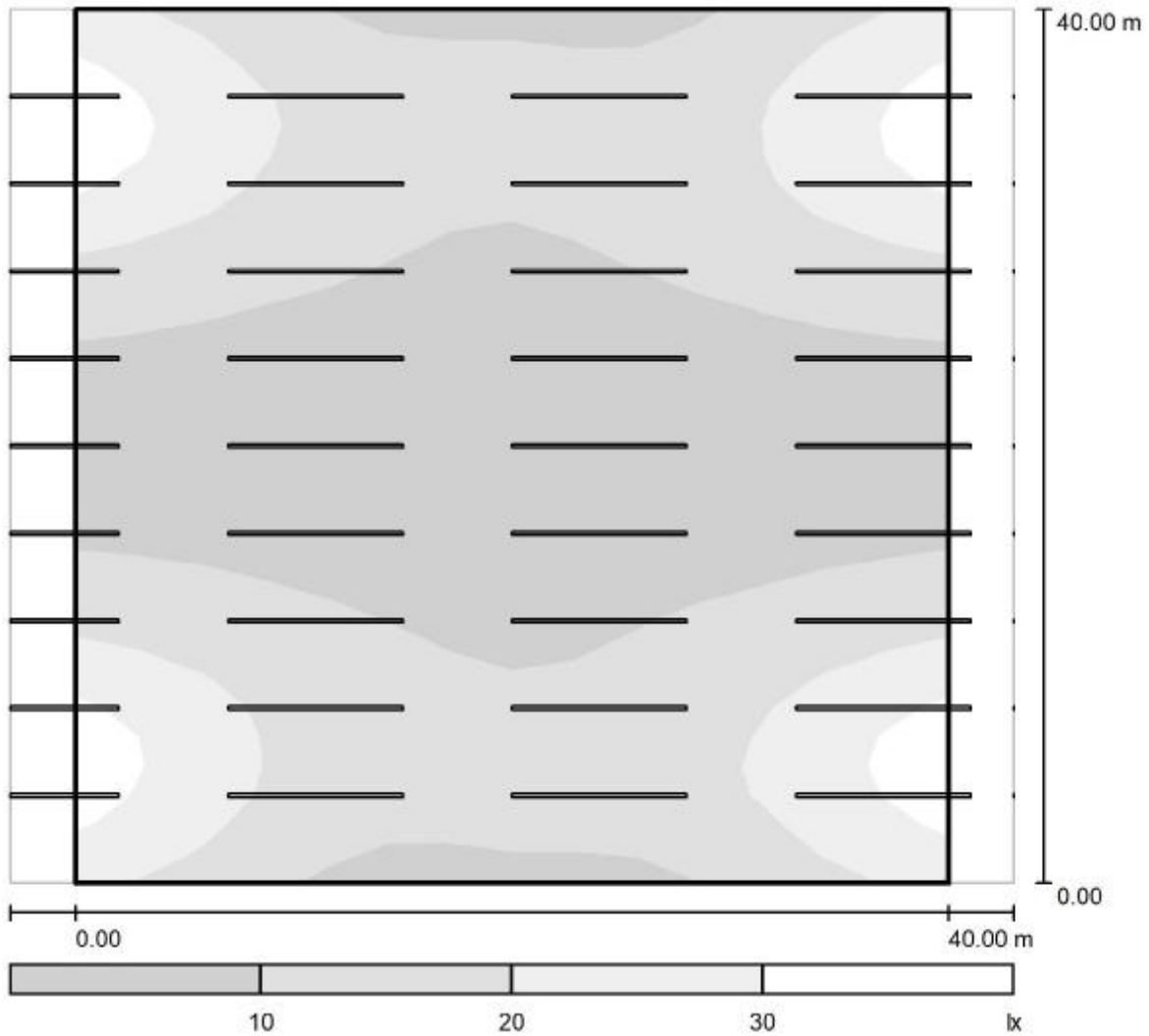
Values in Lux, Scale 1 : 329

Grid: 14 x 30 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}
14	6.06	34	0.438	0.180

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



Scale 1 : 340

Grid: 14 x 30 Points

E_{av} [lx]
14

E_{min} [lx]
6.06

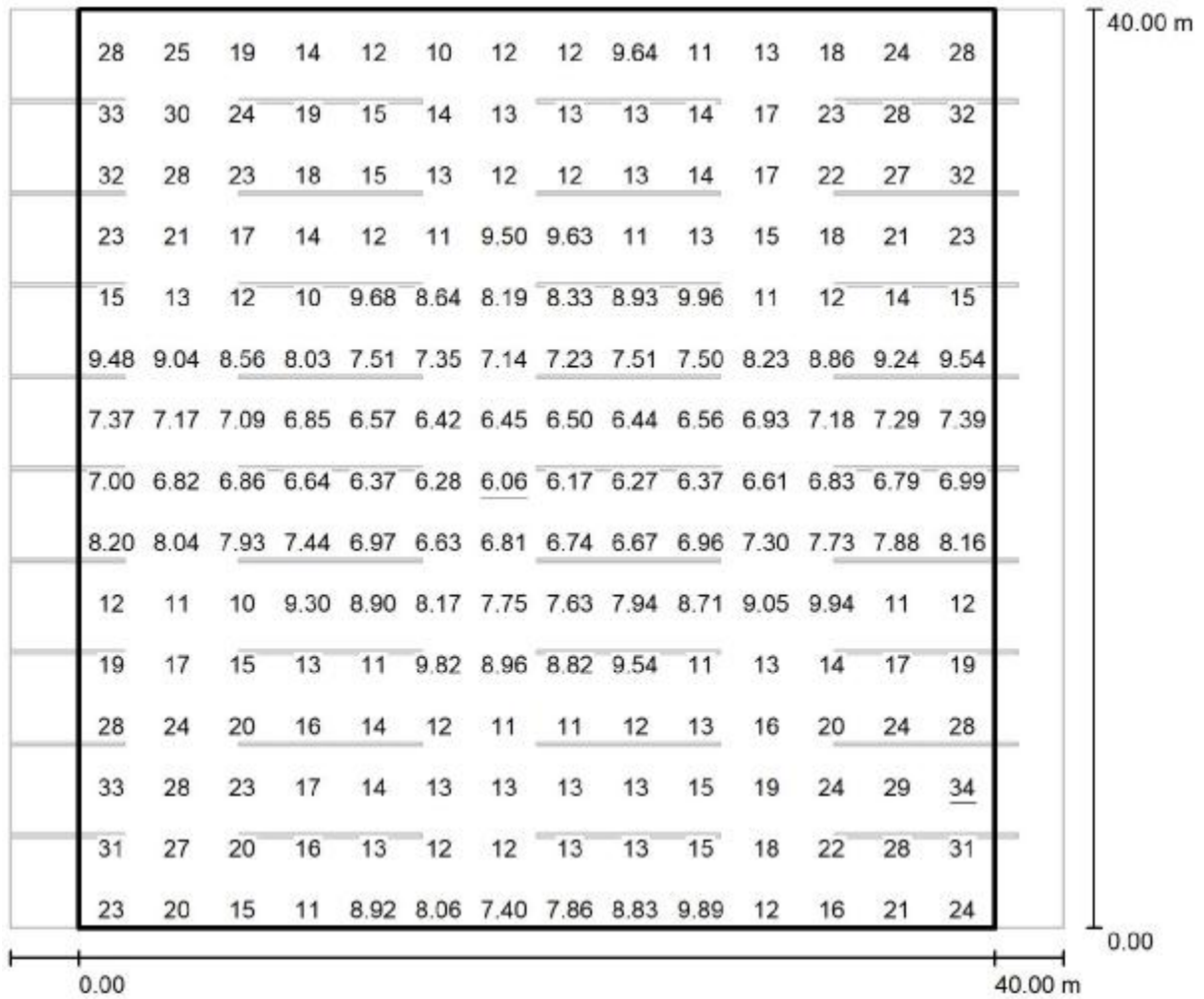
E_{max} [lx]
34

u_0
0.438

E_{min} / E_{max}
0.180

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



Not all calculated values could be displayed.

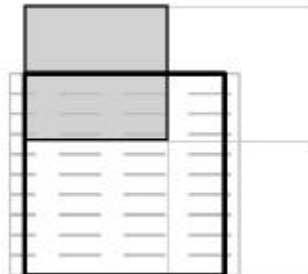
Values in Lux, Scale 1 : 329

Grid: 14 x 30 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
14	6.06	34	0.438	0.180

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



Current Selection
 Further Selections

39.333	24	21	16	12	9.89	8.83	7.86	7.40	8.06	8.92
38.000	28	25	19	14	12	10	12	12	9.64	11
36.667	31	28	22	18	15	13	13	12	12	13
35.333	33	30	24	19	15	14	13	13	13	14
34.000	<u>34</u>	29	24	19	15	13	13	13	13	14
32.667	32	28	23	18	15	13	12	12	13	14
31.333	28	24	20	16	13	12	11	11	12	14
30.000	23	21	17	14	12	11	9.50	9.63	11	13
28.667	19	17	14	13	11	9.54	8.82	8.96	9.82	11
27.333	15	13	12	10	9.68	8.64	8.19	8.33	8.93	9.96
m	1.429	4.286	7.143	10.000	12.857	15.714	18.571	21.429	24.286	27.143

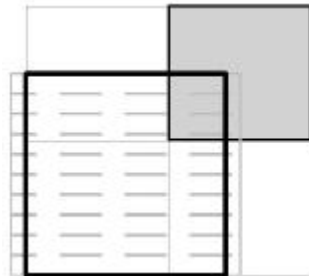
Attention: The coordinates refer to the image above. Values in Lux.

Grid: 14 x 30 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
14	6.06	34	0.438	0.180

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



Current Selection
 Further Selections

39.333	11	15	20	23
38.000	13	18	24	28
36.667	16	20	27	31
35.333	17	23	28	32
34.000	17	23	28	33
32.667	17	22	27	32
31.333	16	20	24	28
30.000	15	18	21	23
28.667	13	15	17	19
27.333	11	12	14	15

m 30.000 32.857 35.714 38.571

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

Grid: 14 x 30 Points

E_{av} [lx]
14

E_{min} [lx]
6.06

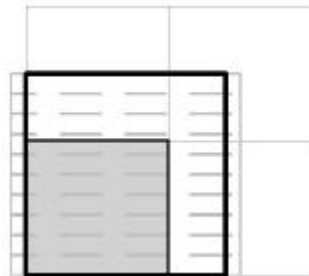
E_{max} [lx]
34

$u0$
0.438

E_{min} / E_{max}
0.180

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



Current Selection
 Further Selections

26.000	12	11	9.94	9.05	8.71	7.94	7.63	7.75	8.17	8.90
24.667	9.48	9.04	8.56	8.03	7.51	7.35	7.14	7.23	7.51	7.50
23.333	8.16	7.88	7.73	7.30	6.96	6.67	6.74	6.81	6.63	6.97
22.000	7.37	7.17	7.09	6.85	6.57	6.42	6.45	6.50	6.44	6.56
20.667	6.99	6.79	6.83	6.61	6.37	6.27	6.17	<u>6.06</u>	6.28	6.37
19.333	7.00	6.82	6.86	6.64	6.37	6.28	<u>6.06</u>	6.17	6.27	6.37
18.000	7.39	7.29	7.18	6.93	6.56	6.44	6.50	6.45	6.42	6.57
16.667	8.20	8.04	7.93	7.44	6.97	6.63	6.81	6.74	6.67	6.96
15.333	9.54	9.24	8.86	8.23	7.50	7.51	7.23	7.14	7.35	7.51
14.000	12	11	10	9.30	8.90	8.17	7.75	7.63	7.94	8.71
12.667	15	14	12	11	9.96	8.93	8.33	8.19	8.64	9.68
11.333	19	17	15	13	11	9.82	8.96	8.82	9.54	11
10.000	23	21	18	15	13	11	9.63	9.50	11	12
8.667	28	24	20	16	14	12	11	11	12	13
7.333	32	27	22	17	14	13	12	12	13	15
6.000	33	28	23	17	14	13	13	13	13	15
4.667	32	28	23	17	14	13	13	13	14	15
3.333	31	27	20	16	13	12	12	13	13	15
2.000	28	24	18	13	11	9.64	12	12	10	12
0.667	23	20	15	11	8.92	8.06	7.40	7.86	8.83	9.89
m	1.429	4.286	7.143	10.000	12.857	15.714	18.571	21.429	24.286	27.143

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

Grid: 14 x 30 Points

E_{av} [lx]
14

E_{min} [lx]
6.06

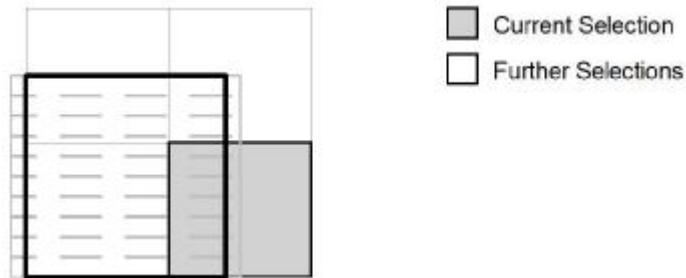
E_{max} [lx]
34

u_0
0.438

E_{min} / E_{max}
0.180

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



26.000	9.30	10	11	12
24.667	8.23	8.86	9.24	9.54
23.333	7.44	7.93	8.04	8.20
22.000	6.93	7.18	7.29	7.39
20.667	6.64	6.86	6.82	7.00
19.333	6.61	6.83	6.79	6.99
18.000	6.85	7.09	7.17	7.37
16.667	7.30	7.73	7.88	8.16
15.333	8.03	8.56	9.04	9.48
14.000	9.05	9.94	11	12
12.667	10	12	13	15
11.333	13	14	17	19
10.000	14	17	21	23
8.667	16	20	24	28
7.333	18	23	28	32
6.000	19	24	29	<u>34</u>
4.667	19	24	30	33
3.333	18	22	28	31
2.000	14	19	25	28
0.667	12	16	21	24
m	30.000	32.857	35.714	38.571

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

Grid: 14 x 30 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
14	6.06	34	0.438	0.180