

Strada zambilei

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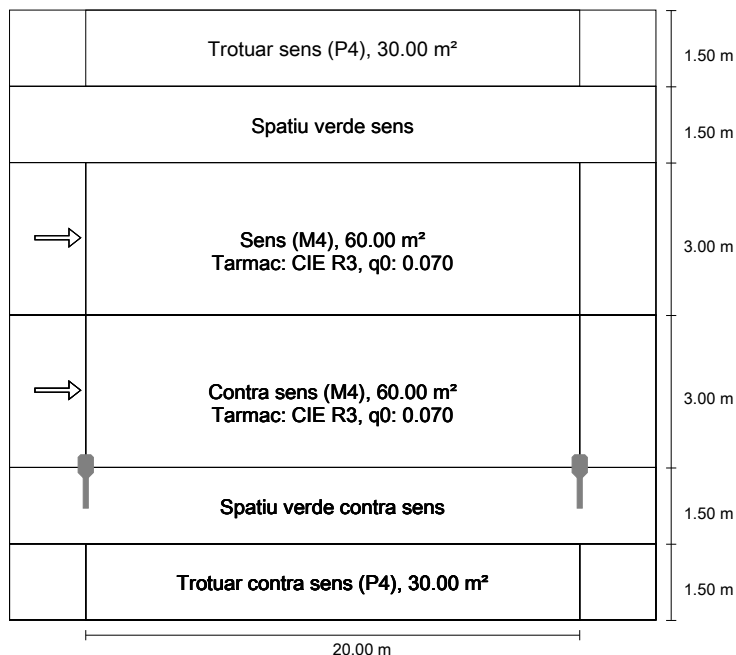
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Strada Zambilei according to EN 13201:2015



Results for valuation fields

Light loss factor: 0.67

Trotuar sens (P4)

Em [lx] ≥ 5.00 ≤ 7.50	Emin [lx] ≥ 1.00	Emin (v) ≥ 1.50
✓ 5.81	✓ 4.50	✓ 1.83

Sens (M4)

Lm [cd/m²] ≥ 0.75	Uo ≥ 0.40	UI ≥ 0.60	TI [%] ≤ 15	EIR ≥ 0.30
✓ 0.81	✓ 0.75	✓ 0.87	✓ 6	✓ 0.57

Contra sens (M4)

Lm [cd/m²] ≥ 0.75	Uo ≥ 0.40	UI ≥ 0.60	TI [%] ≤ 15	EIR ≥ 0.30
✓ 1.01	✓ 0.92	✓ 0.92	✓ 5	✓ 0.68

Trotuar contra sens (P4)

Em [lx] ≥ 5.00 ≤ 7.50	Emin [lx] ≥ 1.00	Emin (v) ≥ 1.50
✓ 7.44	✓ 5.51	✓ 2.30

Results for energy efficiency indicators

Power density indicator (Dp)

0.034 W/lxm²

Lamp:

Luminous flux (luminaire): 5665.28 lm

Luminous flux (lamp): 7020.00 lm

Operating Hours

0 h: 100.0 %, 67.0 W

W/km: 3350.0

Arrangement: single side bottom

Pole distance: 20.000 m

Boom inclination (3): 3.0°

Boom length (4): 0.793 m

Light centre height (1): 10.000 m

Light overhang (2): 0.000 m

ULR: 0.00

ULOR: 0.00

Maximum luminous intensities

at 70°: 590 cd/klm

at 80°: 79.6 cd/klm

at 90°: 0.00 cd/klm

Luminous intensity class: G*3

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

Arrangement complies with glare index class D.4

Trotuar sens (P4)

Light loss factor: 0.67
Grid: 10 x 3 Points

Em [lx] ≥ 5.00 ≤ 7.50	Emin [lx] ≥ 1.00	Emin (v) ≥ 1.50
✓ 5.81	✓ 4.50	✓ 1.83

Trotuar sens (P4)

Horizontal illuminance [lx]

11.750	5.08	5.49	5.52	4.78	4.50	4.50	4.78	5.52	5.49	5.08
11.250	5.72	6.20	6.18	5.50	5.17	5.17	5.50	6.18	6.20	5.72
10.750	6.44	7.05	6.99	6.41	6.07	6.07	6.41	6.99	7.05	6.44
m	1.000	3.000	5.000	7.000	9.000	11.000	13.000	15.000	17.000	19.000

Grid: 10 x 3 Points

Em [lx]	Emin [lx]	Emax [lx]	g1	g2
5.81	4.50	7.05	0.775	0.638

Vertical illuminance (west) [lx]

11.750	2.23	3.04	3.47	3.11	2.76	2.44	2.22	1.97	1.84	1.83
11.250	2.53	3.44	3.90	3.51	3.08	2.68	2.46	2.25	2.09	2.14
10.750	2.91	3.86	4.35	3.97	3.46	3.04	2.80	2.55	2.46	2.46
m	1.000	3.000	5.000	7.000	9.000	11.000	13.000	15.000	17.000	19.000

Grid: 10 x 3 Points

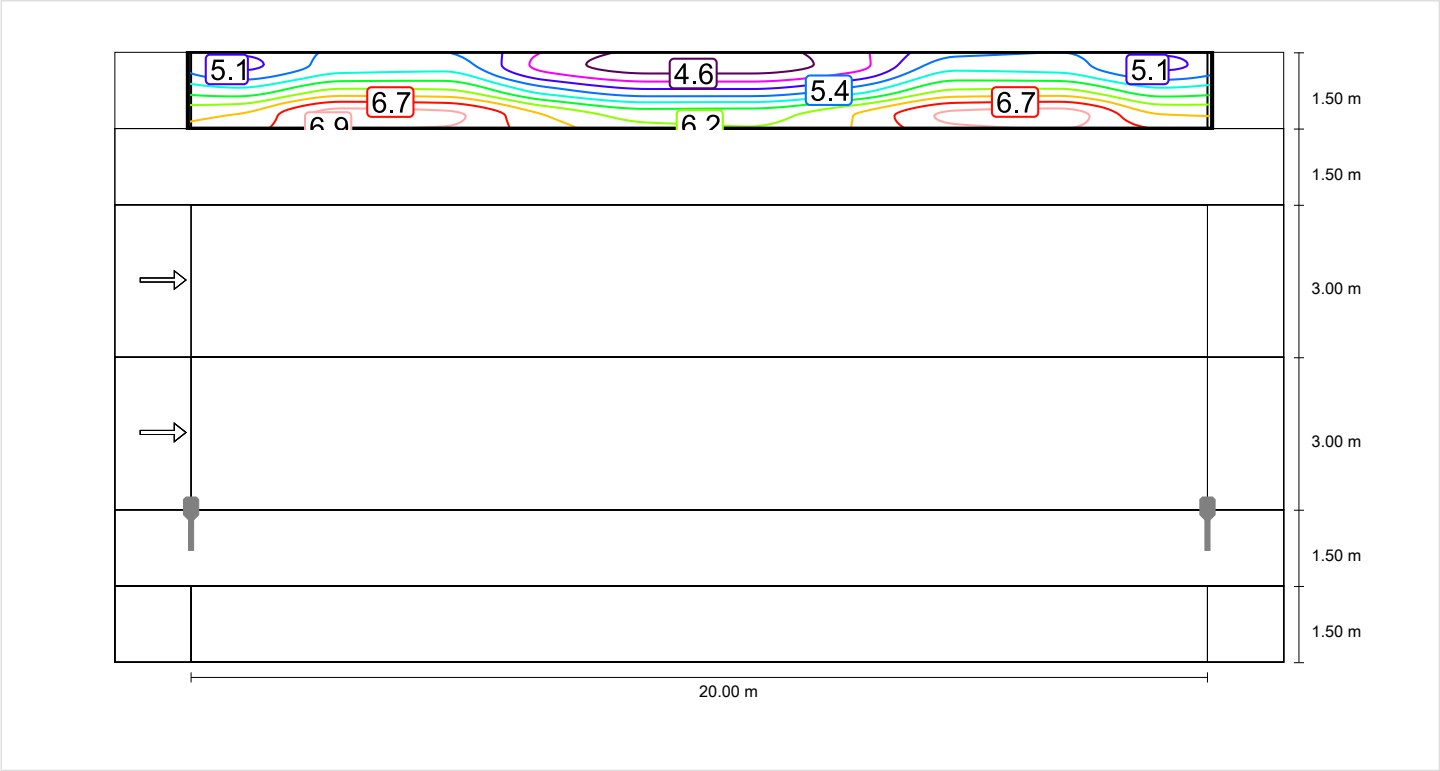
Em [lx]	Emin [lx]	Emax [lx]	g1	g2
2.83	1.83	4.35	0.648	0.421

Trotuar sens (P4)

Light loss factor: 0.67
Grid: 10 x 3 Points

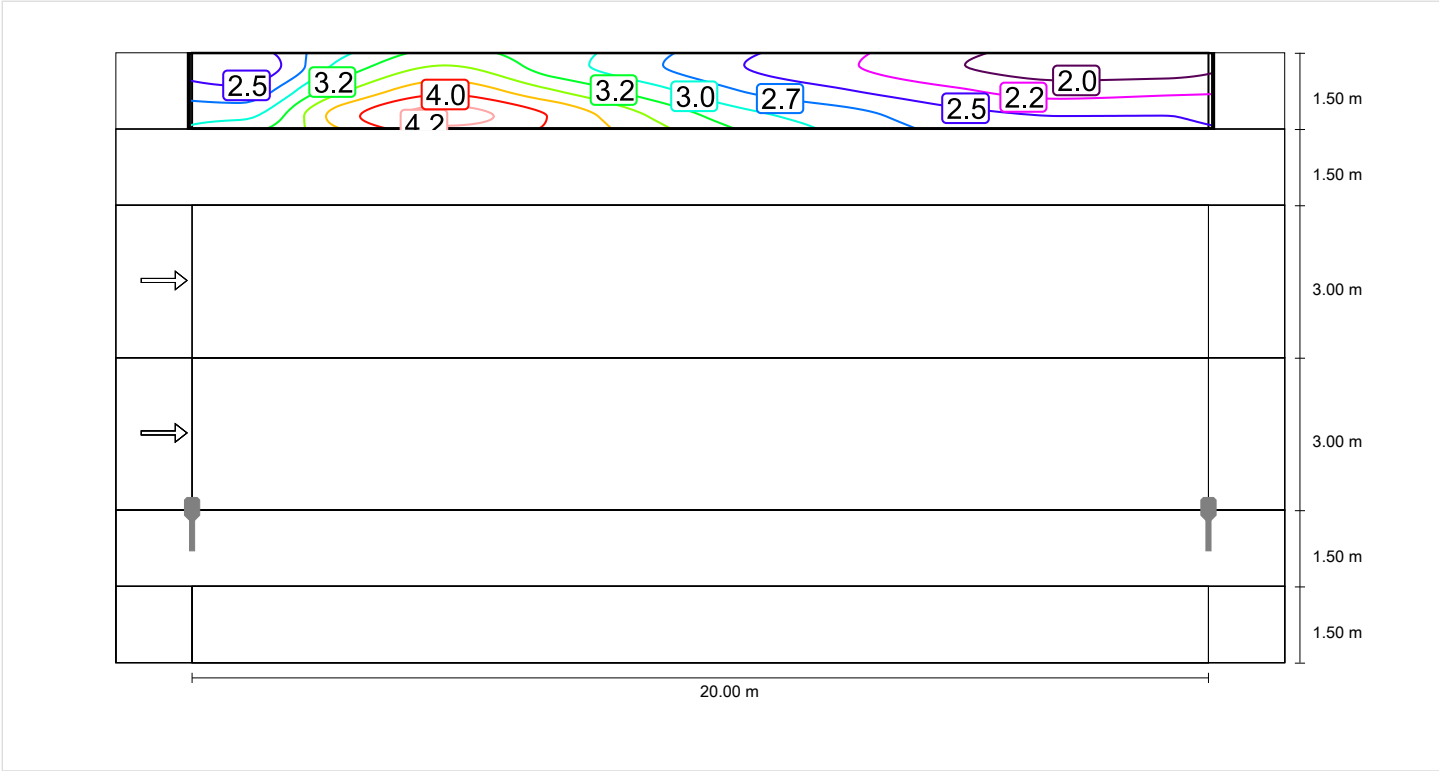
Em [lx] ≥ 5.00 ≤ 7.50	Emin [lx] ≥ 1.00	Emin (v) ≥ 1.50
✓ 5.81	✓ 4.50	✓ 1.83

Horizontal illuminance



Scale: 1 : 200

Vertical illuminance (west)



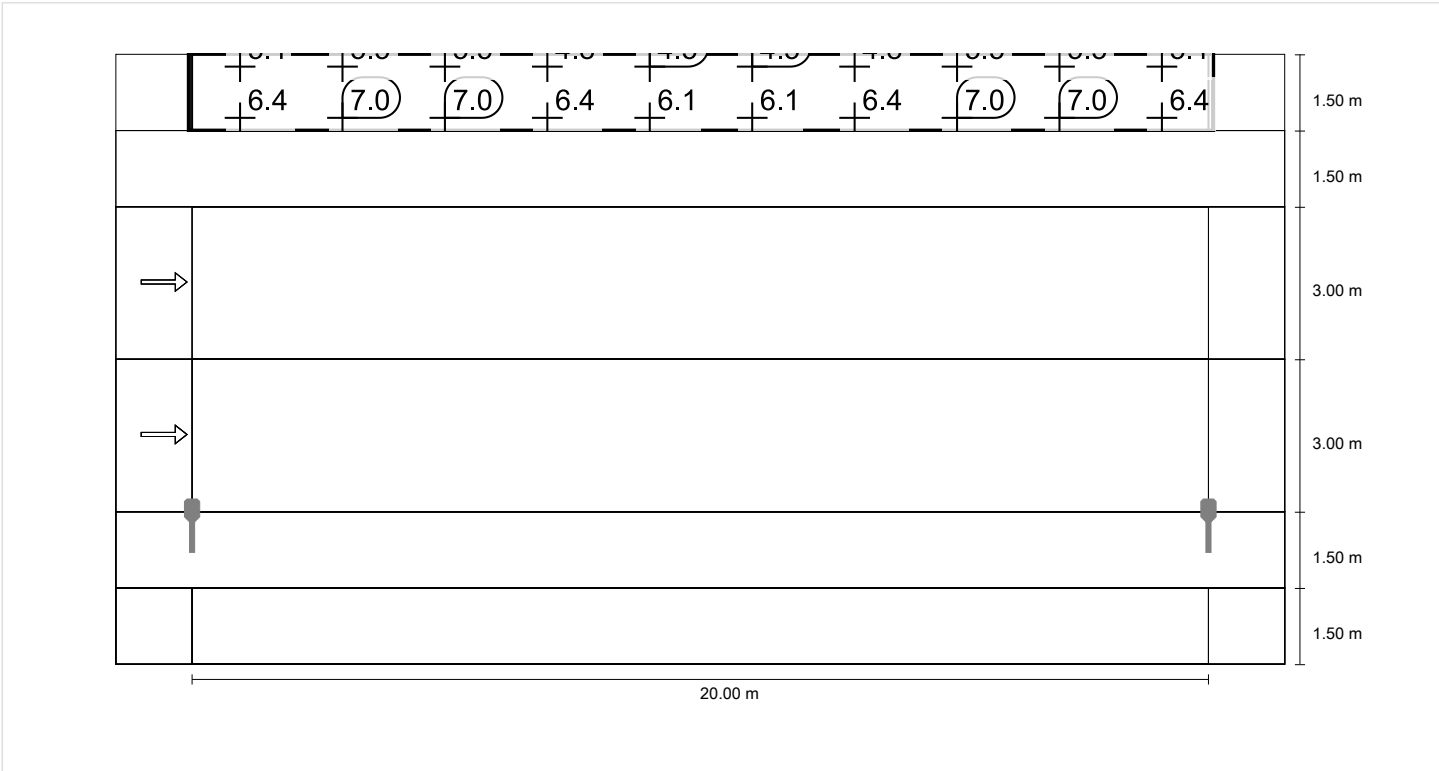
Scale: 1 : 200

Trotuar sens (P4)

Light loss factor: 0.67
Grid: 10 x 3 Points

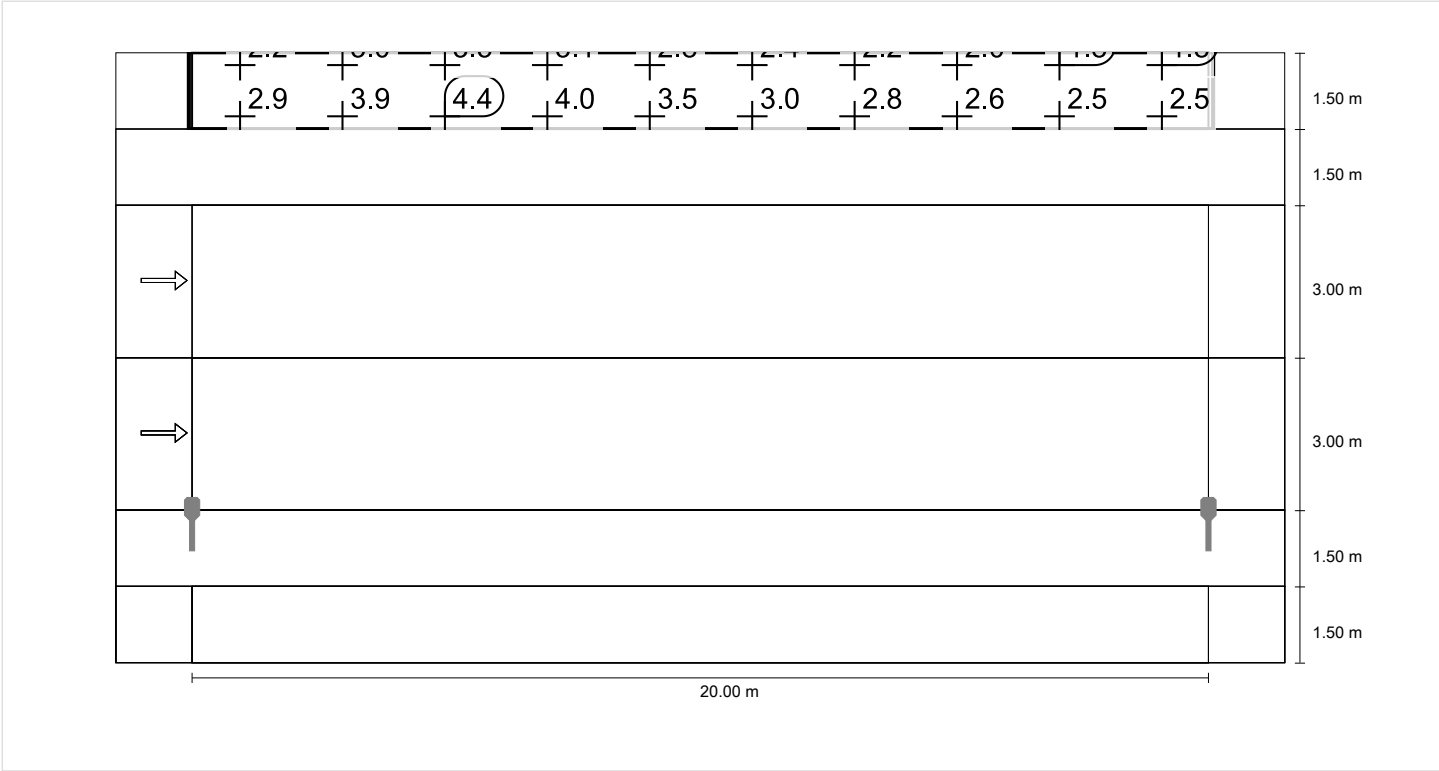
Em [lx] ≥ 5.00 ≤ 7.50	Emin [lx] ≥ 1.00	Emin (v) ≥ 1.50
✓ 5.81	✓ 4.50	✓ 1.83

Horizontal illuminance



Scale: 1 : 200

Vertical illuminance (west)



Scale: 1 : 200

Sens (M4)

Light loss factor: 0.67
Grid: 10 x 3 Points

Lm [cd/m²] ≥ 0.75	Uo ≥ 0.40	UI ≥ 0.60	TI [%] ≤ 15	EIR ≥ 0.30
✓ 0.81	✓ 0.75	✓ 0.87	✓ 6	✓ 0.57

Assigned observer (1):

Observer	Position [m]	Lm [cd/m²] ≥ 0.75	Uo ≥ 0.40	UI ≥ 0.60	TI [%] ≤ 15
Observer 1	(-60.000, 7.500, 1.500)	0.81	0.75	0.87	6

Sens (M4)

Horizontal illuminance [lx]

8.500	11.2	12.6	12.2	12.0	11.0	11.0	12.0	12.2	12.6	11.2
7.500	13.2	14.1	13.2	12.8	11.8	11.8	12.8	13.2	14.1	13.2
6.500	14.5	14.9	13.2	13.2	12.6	12.6	13.2	13.2	14.9	14.5
m	1.000	3.000	5.000	7.000	9.000	11.000	13.000	15.000	17.000	19.000

Grid: 10 x 3 Points

Em [lx]	Emin [lx]	Emax [lx]	g1	g2
12.8	11.0	14.9	0.856	0.738

Observer 1

Luminance with dry roadway [cd/m²]

8.500	0.61	0.64	0.65	0.64	0.61	0.66	0.70	0.69	0.68	0.62
7.500	0.79	0.81	0.81	0.79	0.74	0.78	0.83	0.82	0.85	0.81
6.500	0.98	0.99	0.95	0.93	0.90	0.93	0.98	0.97	1.02	0.98
m	1.000	3.000	5.000	7.000	9.000	11.000	13.000	15.000	17.000	19.000

Grid: 10 x 3 Points

Lm [cd/m ²]	Lmin [cd/m ²]	Lmax [cd/m ²]	g1	g2
0.81	0.61	1.02	0.752	0.597

Luminance with new lamp [cd/m²]

8.500	0.91	0.96	0.97	0.96	0.92	0.98	1.04	1.03	1.02	0.93
7.500	1.18	1.22	1.21	1.18	1.11	1.16	1.24	1.22	1.27	1.21
6.500	1.46	1.48	1.42	1.39	1.34	1.39	1.47	1.45	1.52	1.47
m	1.000	3.000	5.000	7.000	9.000	11.000	13.000	15.000	17.000	19.000

Grid: 10 x 3 Points

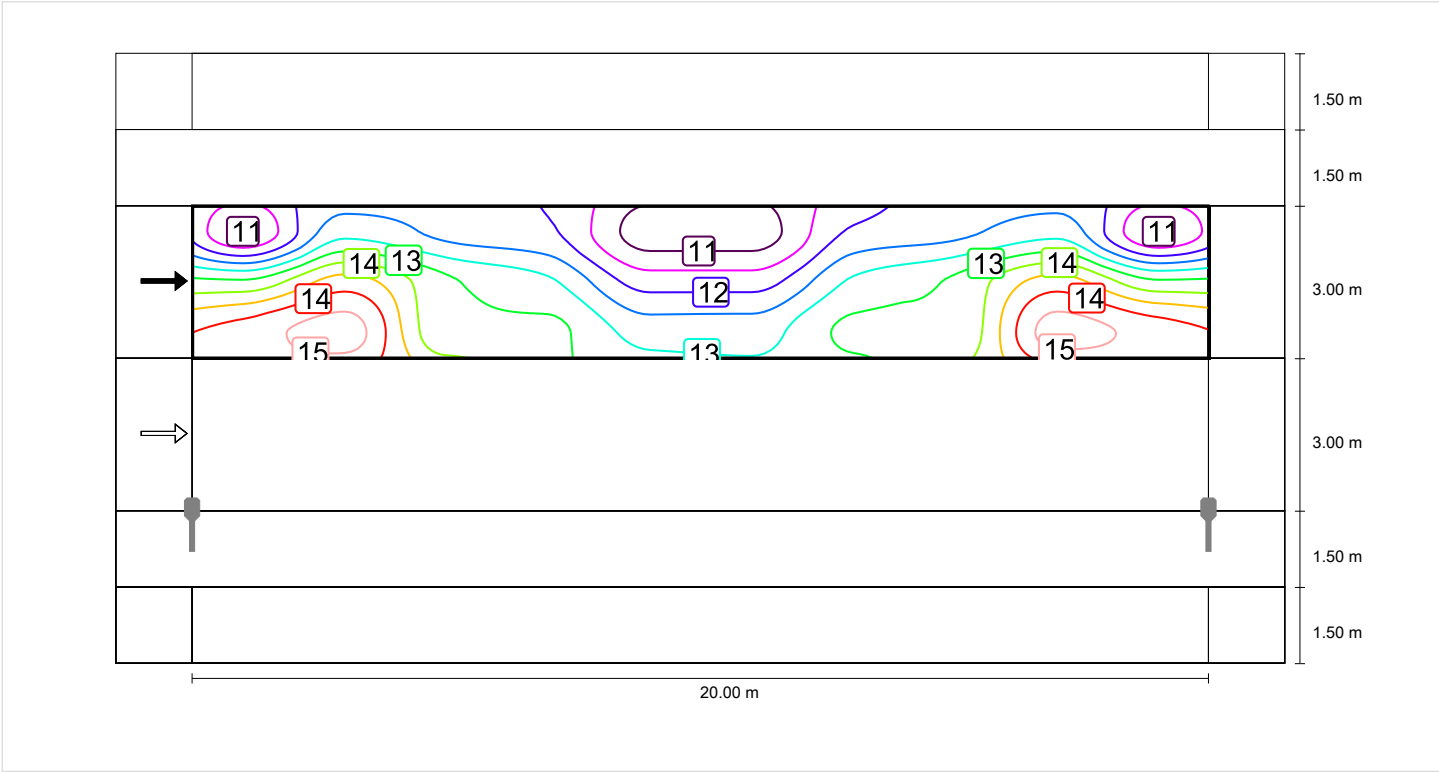
Lm [cd/m ²]	Lmin [cd/m ²]	Lmax [cd/m ²]	g1	g2
1.20	0.91	1.52	0.752	0.597

Sens (M4)

Light loss factor: 0.67
Grid: 10 x 3 Points

Lm [cd/m²] ≥ 0.75	Uo ≥ 0.40	UI ≥ 0.60	TI [%] ≤ 15	EIR ≥ 0.30
✓ 0.81	✓ 0.75	✓ 0.87	✓ 6	✓ 0.57

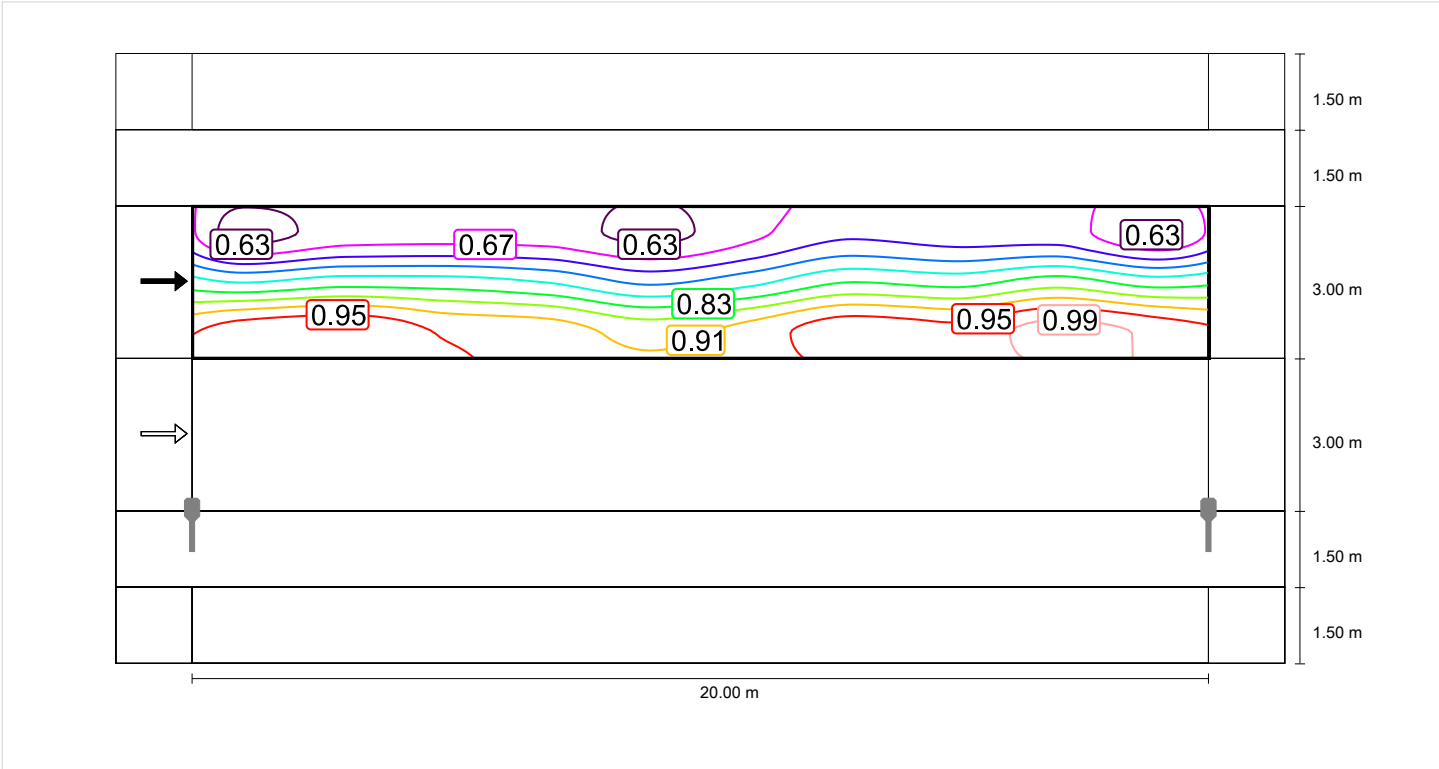
Horizontal illuminance



Scale: 1 : 200

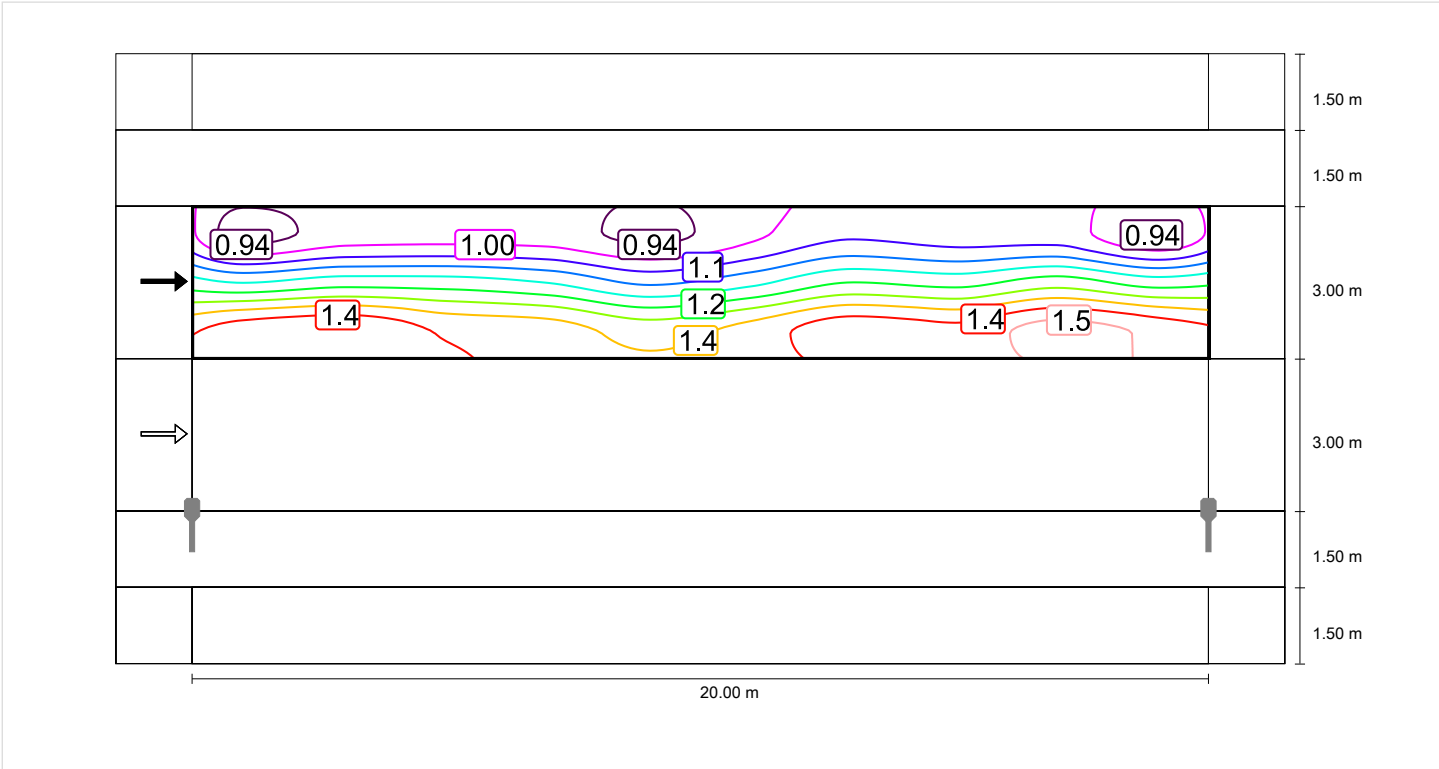
Observer 1

Luminance with dry roadway



Scale: 1 : 200

Luminance with new lamp



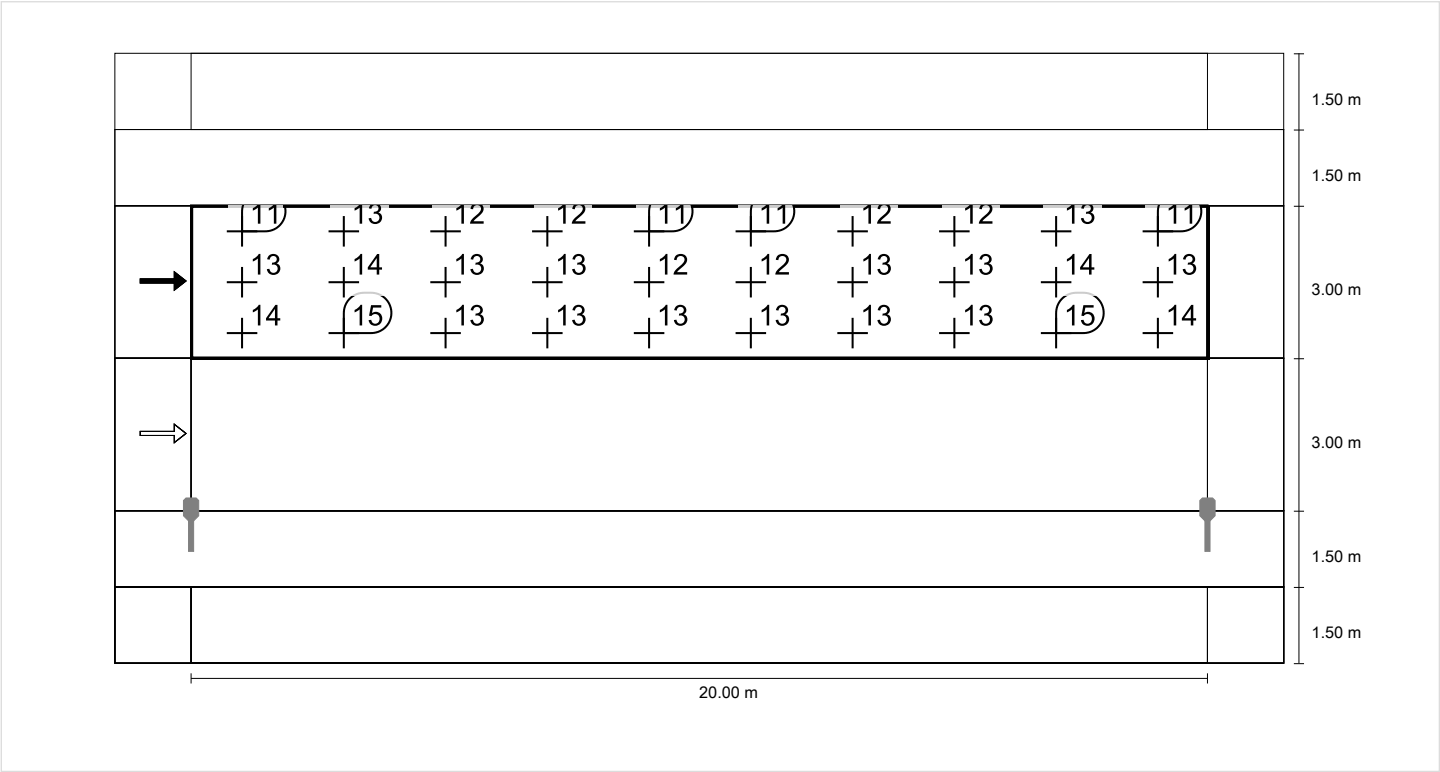
Scale: 1 : 200

Sens (M4)

Light loss factor: 0.67
Grid: 10 x 3 Points

Lm [cd/m²] ≥ 0.75	Uo ≥ 0.40	UI ≥ 0.60	TI [%] ≤ 15	EIR ≥ 0.30
✓ 0.81	✓ 0.75	✓ 0.87	✓ 6	✓ 0.57

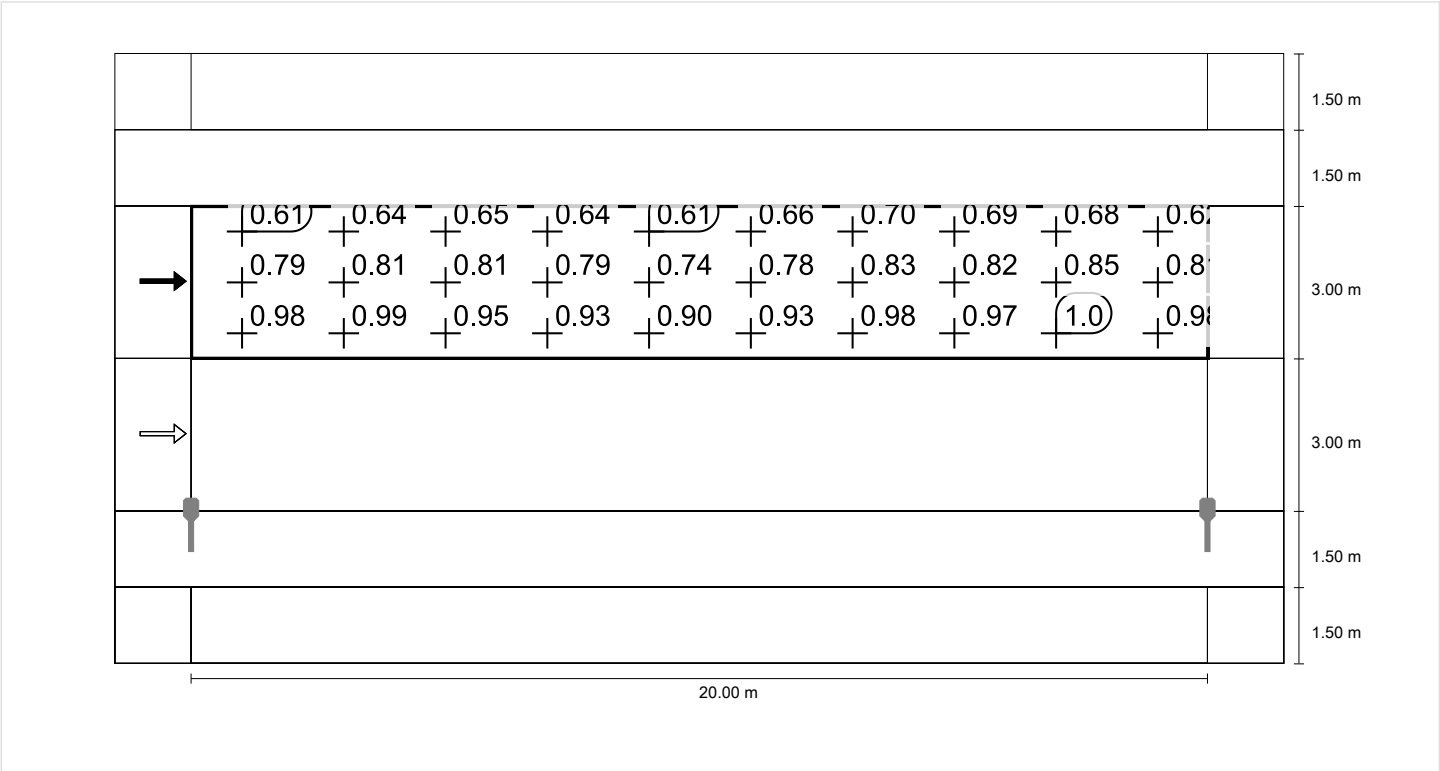
Horizontal illuminance



Scale: 1 : 200

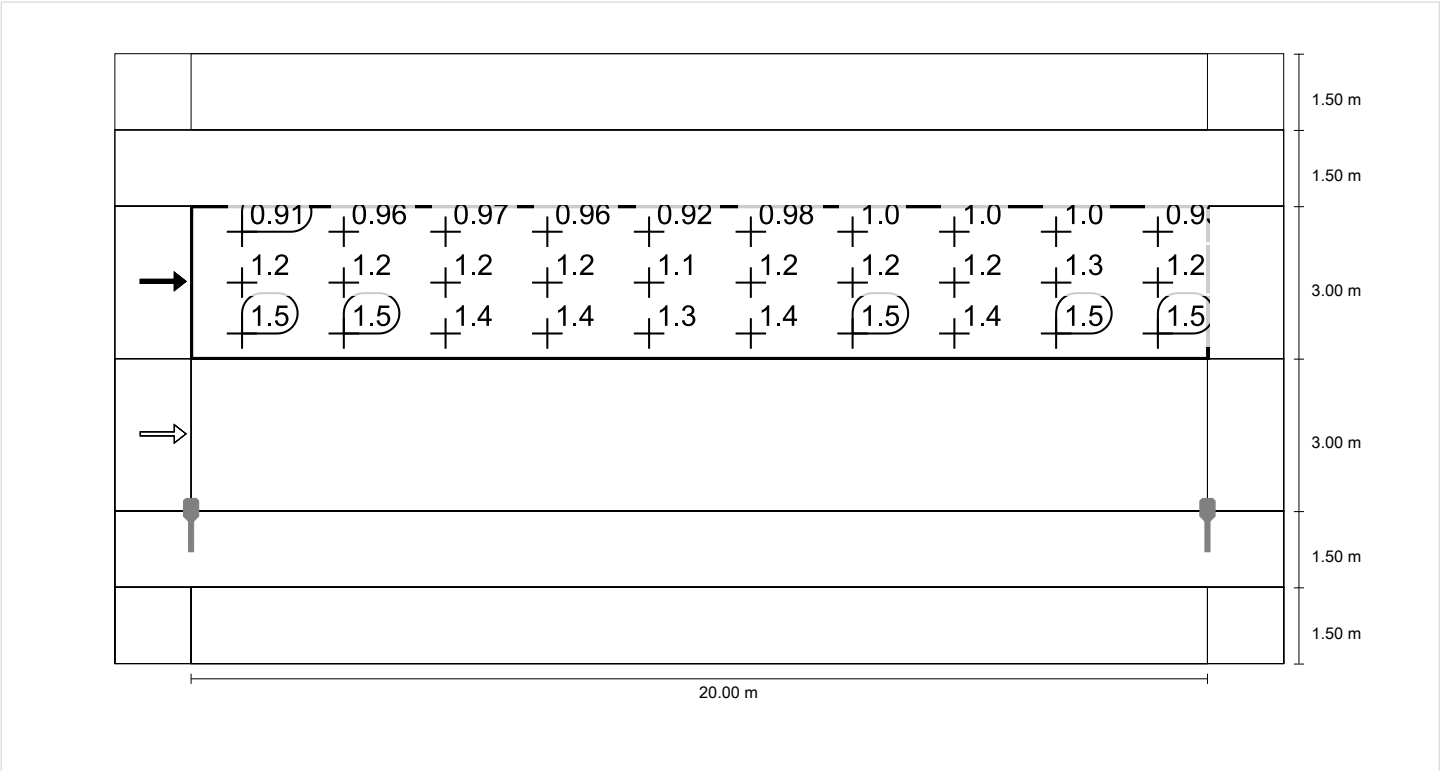
Observer 1

Luminance with dry roadway



Scale: 1 : 200

Luminance with new lamp



Scale: 1 : 200

Contra sens (M4)

Light loss factor: 0.67
Grid: 10 x 3 Points

Lm [cd/m²] ≥ 0.75	Uo ≥ 0.40	UI ≥ 0.60	TI [%] ≤ 15	EIR ≥ 0.30
✓ 1.01	✓ 0.92	✓ 0.92	✓ 5	✓ 0.68

Assigned observer (1):

Observer	Position [m]	Lm [cd/m²] ≥ 0.75	Uo ≥ 0.40	UI ≥ 0.60	TI [%] ≤ 15
Observer 1	(-60.000, 4.500, 1.500)	1.01	0.92	0.92	5

Contra sens (M4)

Horizontal illuminance [lx]

5.500	15.1	15.0	13.2	13.3	12.9	12.9	13.3	13.2	15.0	15.1
4.500	15.1	14.1	12.5	12.4	12.2	12.2	12.4	12.5	14.1	15.1
3.500	13.7	12.9	11.4	10.9	10.7	10.7	10.9	11.4	12.9	13.7
m	1.000	3.000	5.000	7.000	9.000	11.000	13.000	15.000	17.000	19.000

Grid: 10 x 3 Points

Em [lx]	Emin [lx]	Emax [lx]	g1	g2
13.0	10.7	15.1	0.823	0.709

Observer 1

Luminance with dry roadway [cd/m²]

5.500	0.99	0.99	0.95	0.95	0.93	0.95	0.99	0.97	1.03	1.03
4.500	1.10	1.06	1.03	1.03	1.02	1.05	1.04	1.03	1.08	1.11
3.500	1.05	1.01	0.99	0.98	0.98	1.00	0.98	0.98	1.04	1.06
m	1.000	3.000	5.000	7.000	9.000	11.000	13.000	15.000	17.000	19.000

Grid: 10 x 3 Points

Lm [cd/m ²]	Lmin [cd/m ²]	Lmax [cd/m ²]	g1	g2
1.01	0.93	1.11	0.916	0.834

Luminance with new lamp [cd/m²]

5.500	1.48	1.47	1.41	1.42	1.39	1.42	1.48	1.44	1.54	1.53
4.500	1.65	1.59	1.54	1.54	1.53	1.56	1.55	1.54	1.62	1.66
3.500	1.56	1.51	1.47	1.46	1.47	1.49	1.46	1.47	1.55	1.58
m	1.000	3.000	5.000	7.000	9.000	11.000	13.000	15.000	17.000	19.000

Grid: 10 x 3 Points

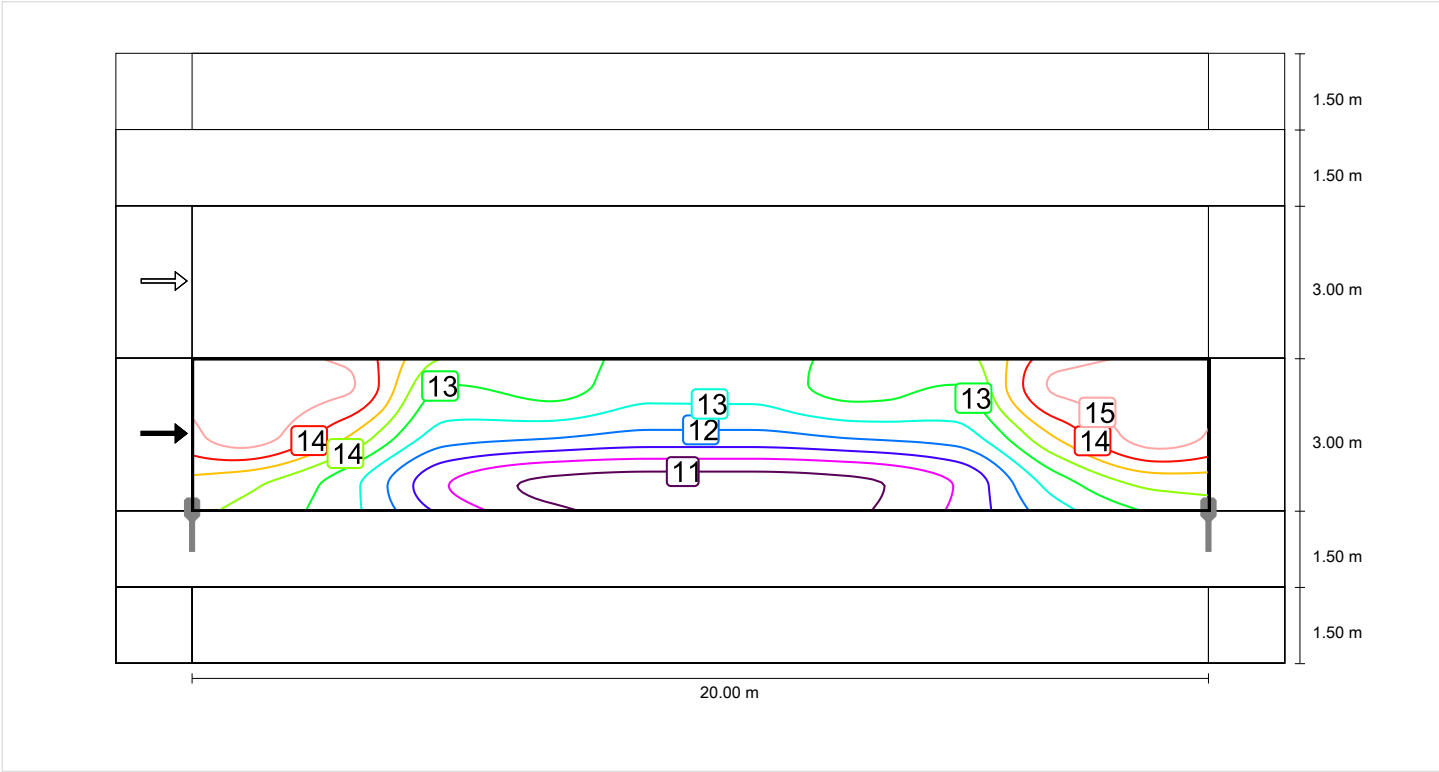
Lm [cd/m ²]	Lmin [cd/m ²]	Lmax [cd/m ²]	g1	g2
1.51	1.39	1.66	0.916	0.834

Contra sens (M4)

Light loss factor: 0.67
Grid: 10 x 3 Points

Lm [cd/m²] ≥ 0.75	Uo ≥ 0.40	UI ≥ 0.60	TI [%] ≤ 15	EIR ≥ 0.30
✓ 1.01	✓ 0.92	✓ 0.92	✓ 5	✓ 0.68

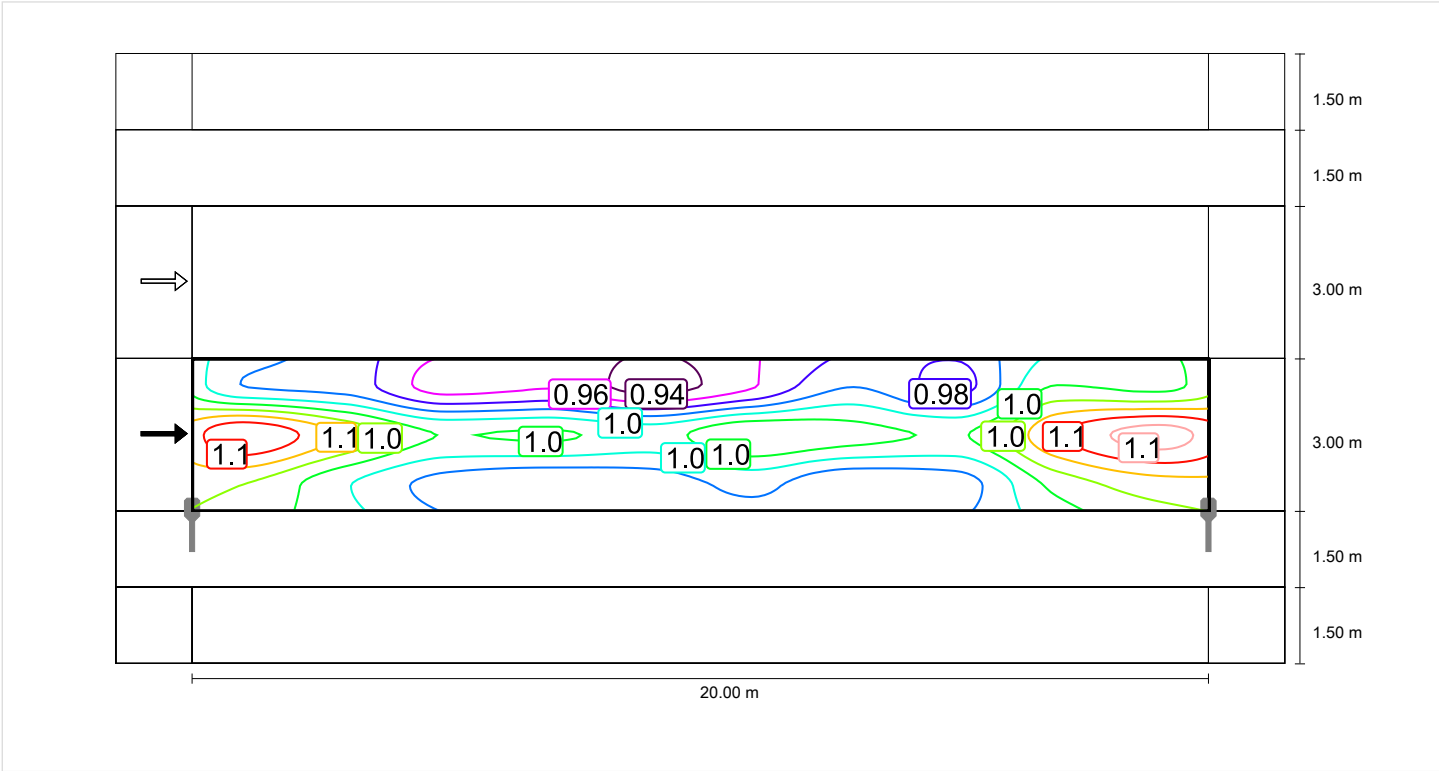
Horizontal illuminance



Scale: 1 : 200

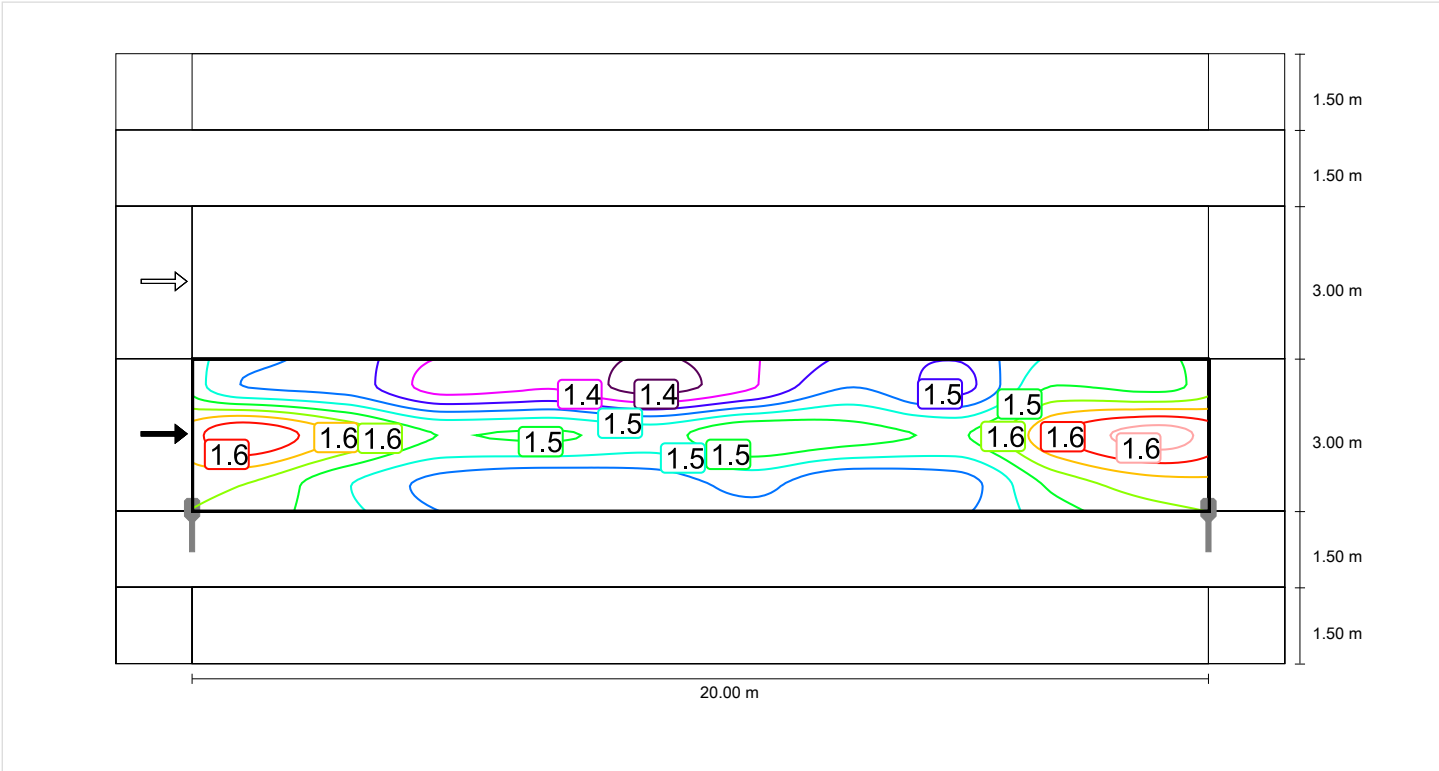
Observer 1

Luminance with dry roadway



Scale: 1 : 200

Luminance with new lamp



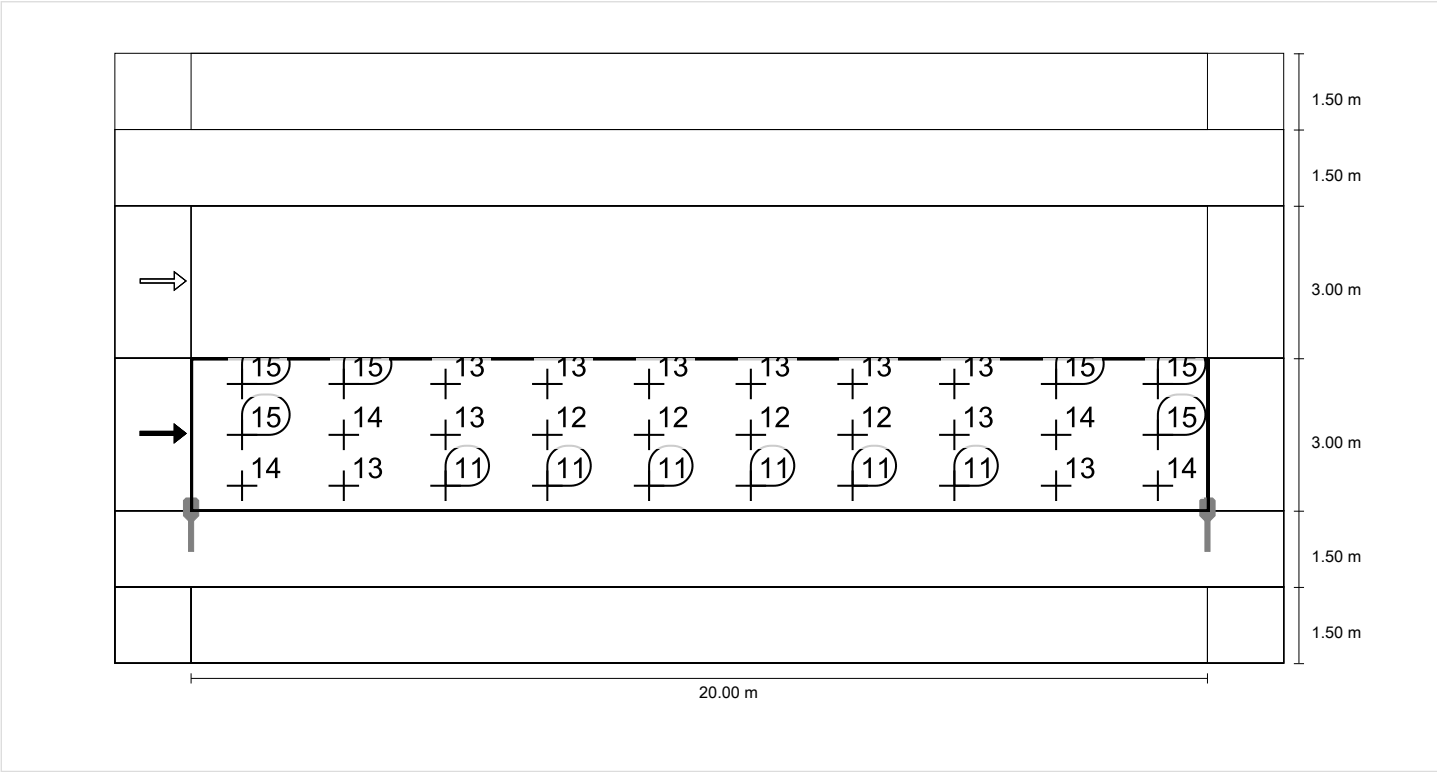
Scale: 1 : 200

Contra sens (M4)

Light loss factor: 0.67
Grid: 10 x 3 Points

Lm [cd/m²] ≥ 0.75	Uo ≥ 0.40	UI ≥ 0.60	TI [%] ≤ 15	EIR ≥ 0.30
✓ 1.01	✓ 0.92	✓ 0.92	✓ 5	✓ 0.68

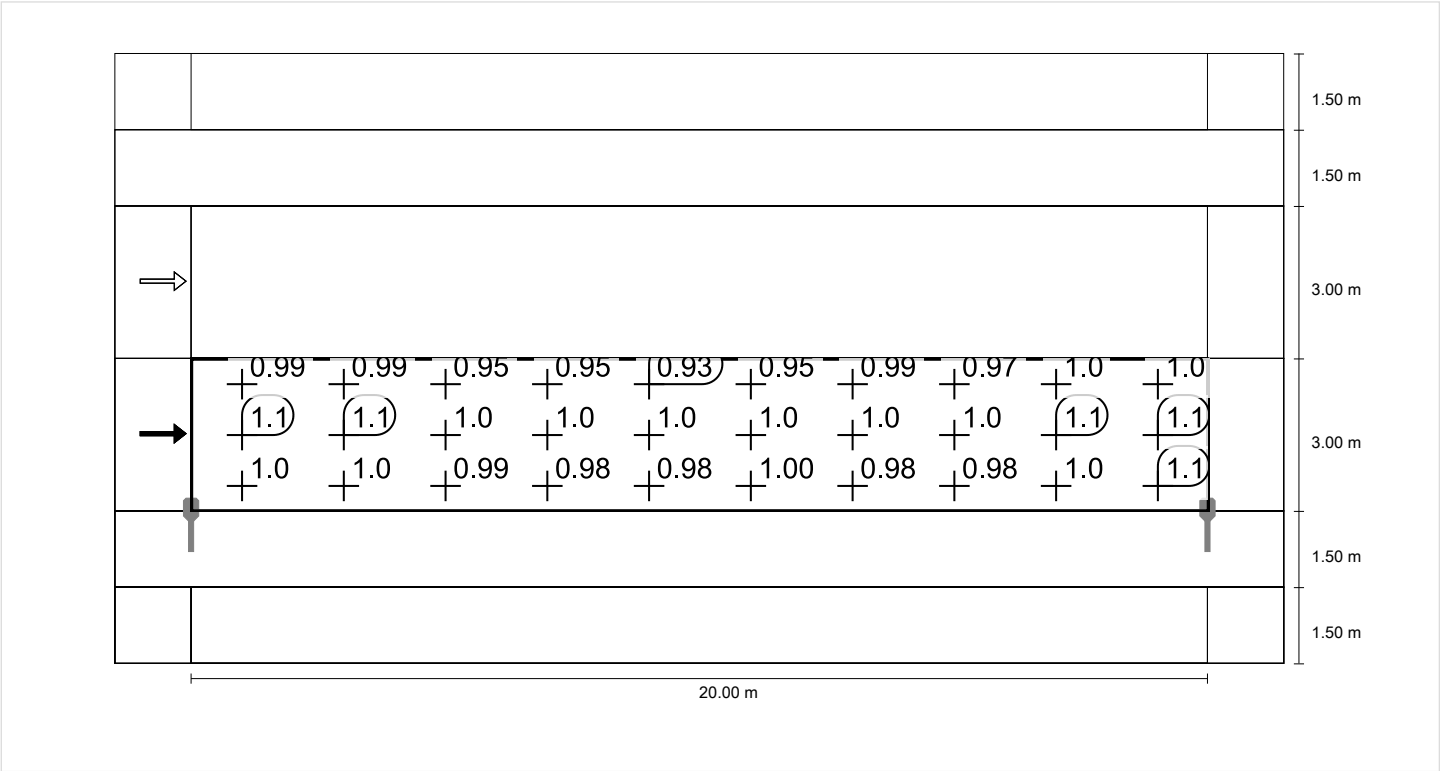
Horizontal illuminance



Scale: 1 : 200

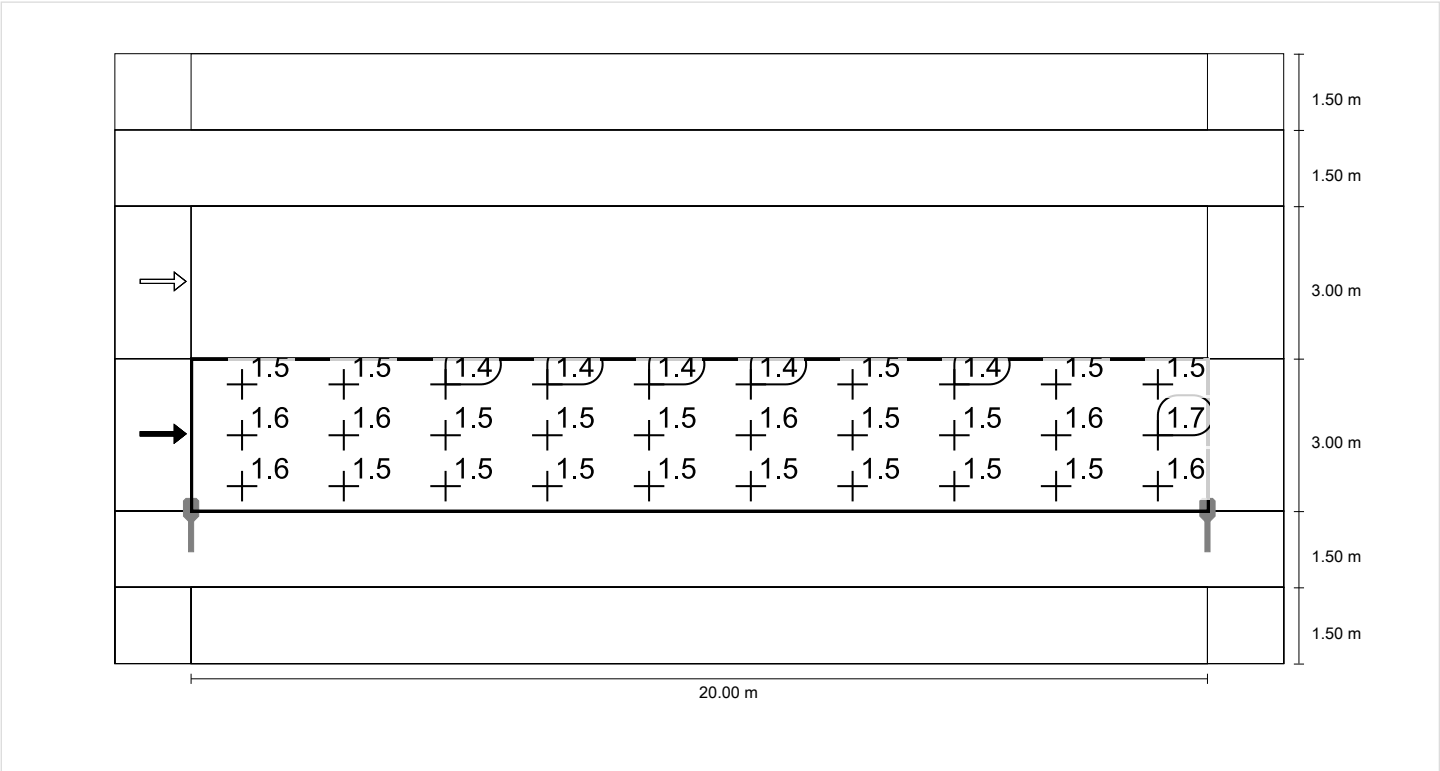
Observer 1

Luminance with dry roadway



Scale: 1 : 200

Luminance with new lamp



Scale: 1 : 200

Trotuar contra sens (P4)

Light loss factor: 0.67
Grid: 10 x 3 Points

Em [lx] ≥ 5.00 ≤ 7.50	Emin [lx] ≥ 1.00	Emin (v) ≥ 1.50
✓ 7.44	✓ 5.51	✓ 2.30

Trotuar contra sens (P4)

Horizontal illuminance [lx]

1.250	9.19	9.44	8.64	7.59	7.16	7.16	7.59	8.64	9.44	9.19
0.750	8.16	8.23	7.65	6.68	6.29	6.29	6.68	7.65	8.23	8.16
0.250	7.20	7.29	6.69	5.86	5.51	5.51	5.86	6.69	7.29	7.20
m	1.000	3.000	5.000	7.000	9.000	11.000	13.000	15.000	17.000	19.000

Grid: 10 x 3 Points

Em [lx]	Emin [lx]	Emax [lx]	g1	g2
7.44	5.51	9.44	0.741	0.584

Vertical illuminance (west) [lx]

1.250	3.25	4.76	5.35	5.29	4.85	4.40	3.91	3.53	3.23	2.77
0.750	2.93	4.14	4.63	4.57	4.24	3.87	3.50	3.17	2.92	2.53
0.250	2.65	3.65	4.06	4.05	3.72	3.42	3.10	2.85	2.63	2.30
m	1.000	3.000	5.000	7.000	9.000	11.000	13.000	15.000	17.000	19.000

Grid: 10 x 3 Points

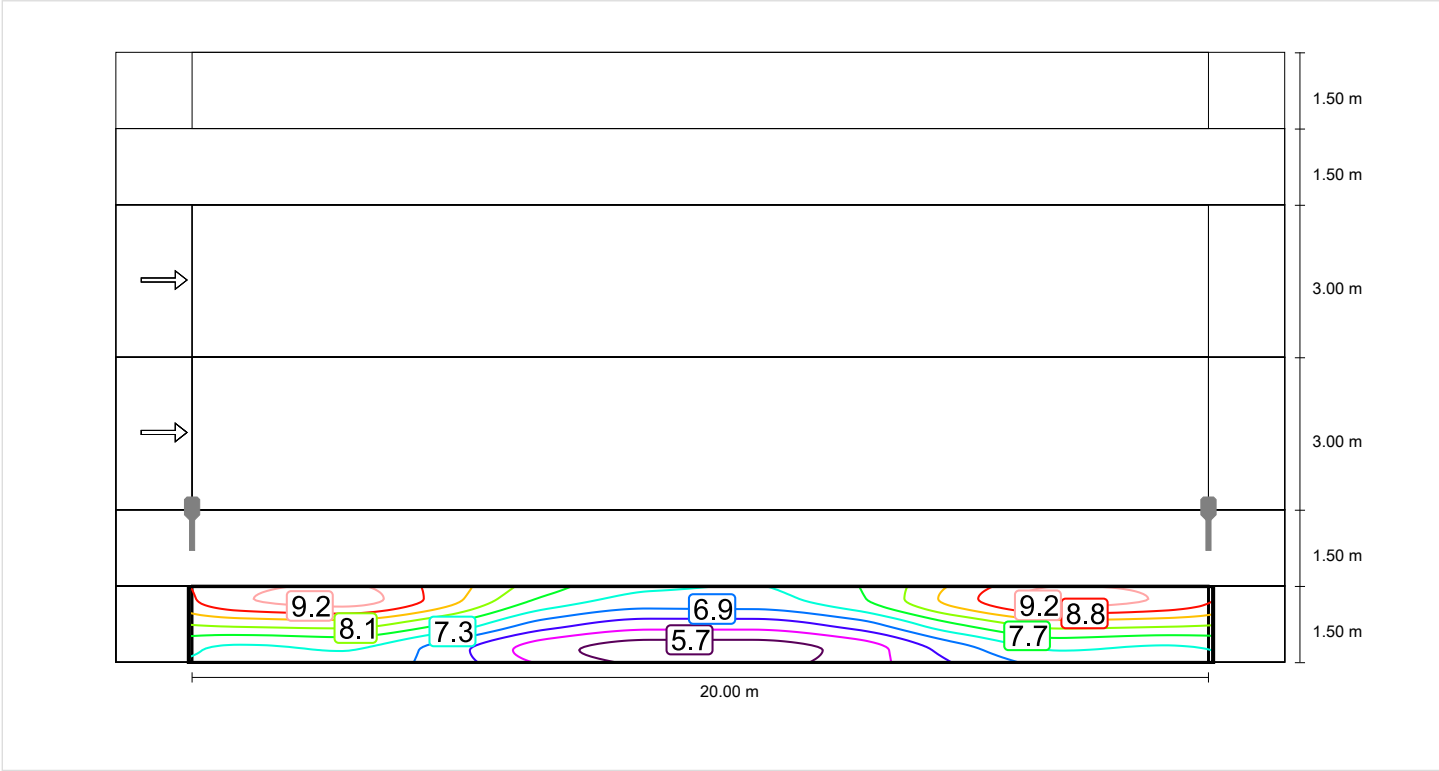
Em [lx]	Emin [lx]	Emax [lx]	g1	g2
3.68	2.30	5.35	0.625	0.430

Trotuar contra sens (P4)

Light loss factor: 0.67
Grid: 10 x 3 Points

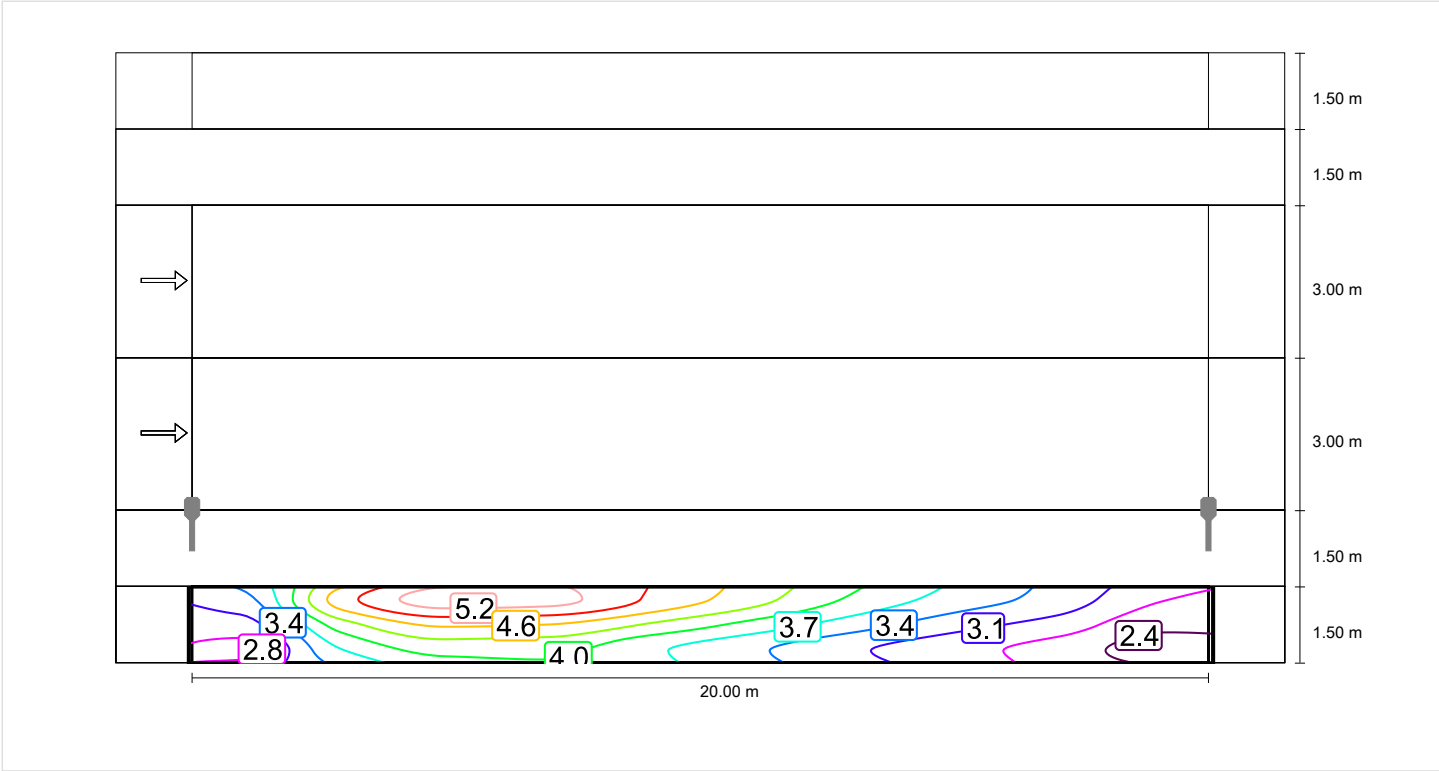
Em [lx] ≥ 5.00 ≤ 7.50	Emin [lx] ≥ 1.00	Emin (v) ≥ 1.50
✓ 7.44	✓ 5.51	✓ 2.30

Horizontal illuminance



Scale: 1 : 200

Vertical illuminance (west)

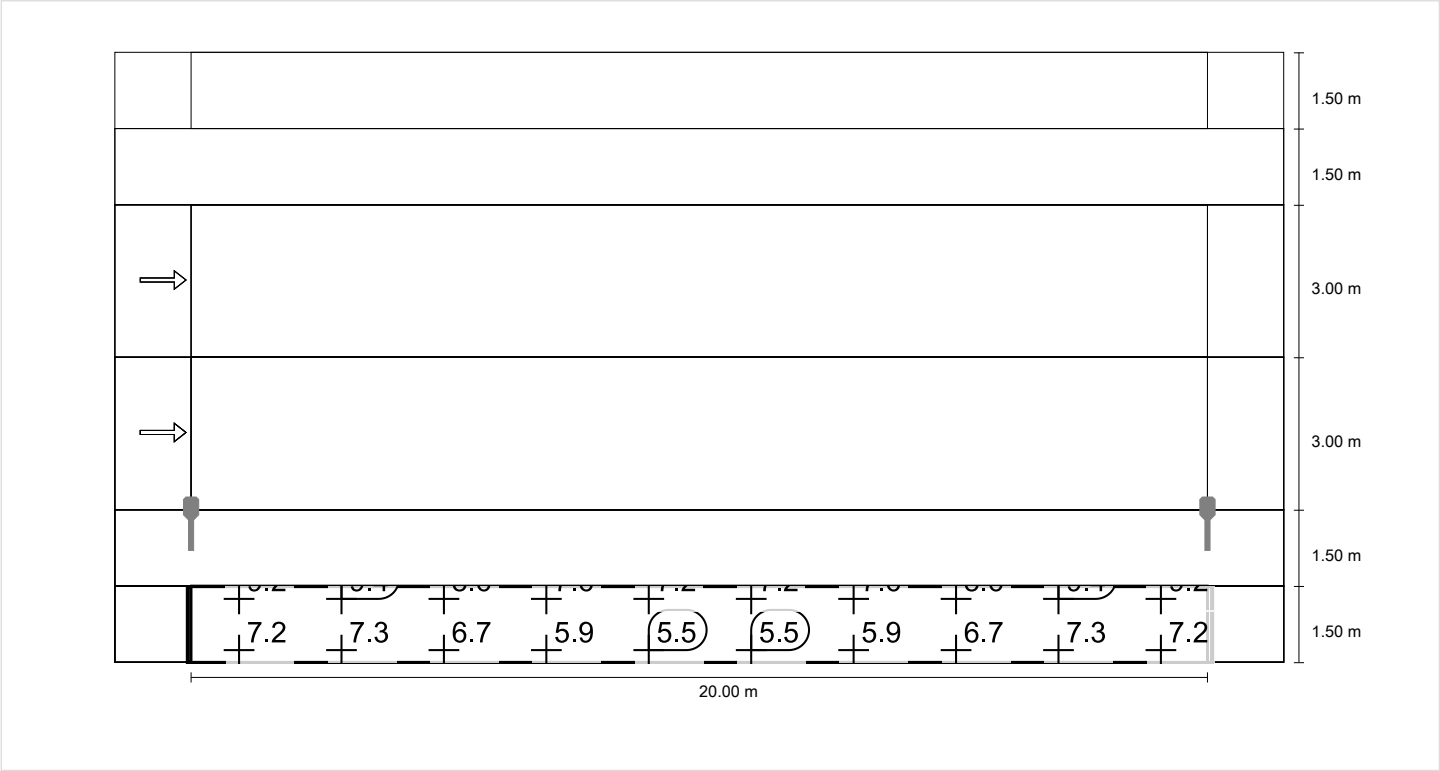


Trotuar contra sens (P4)

Light loss factor: 0.67
Grid: 10 x 3 Points

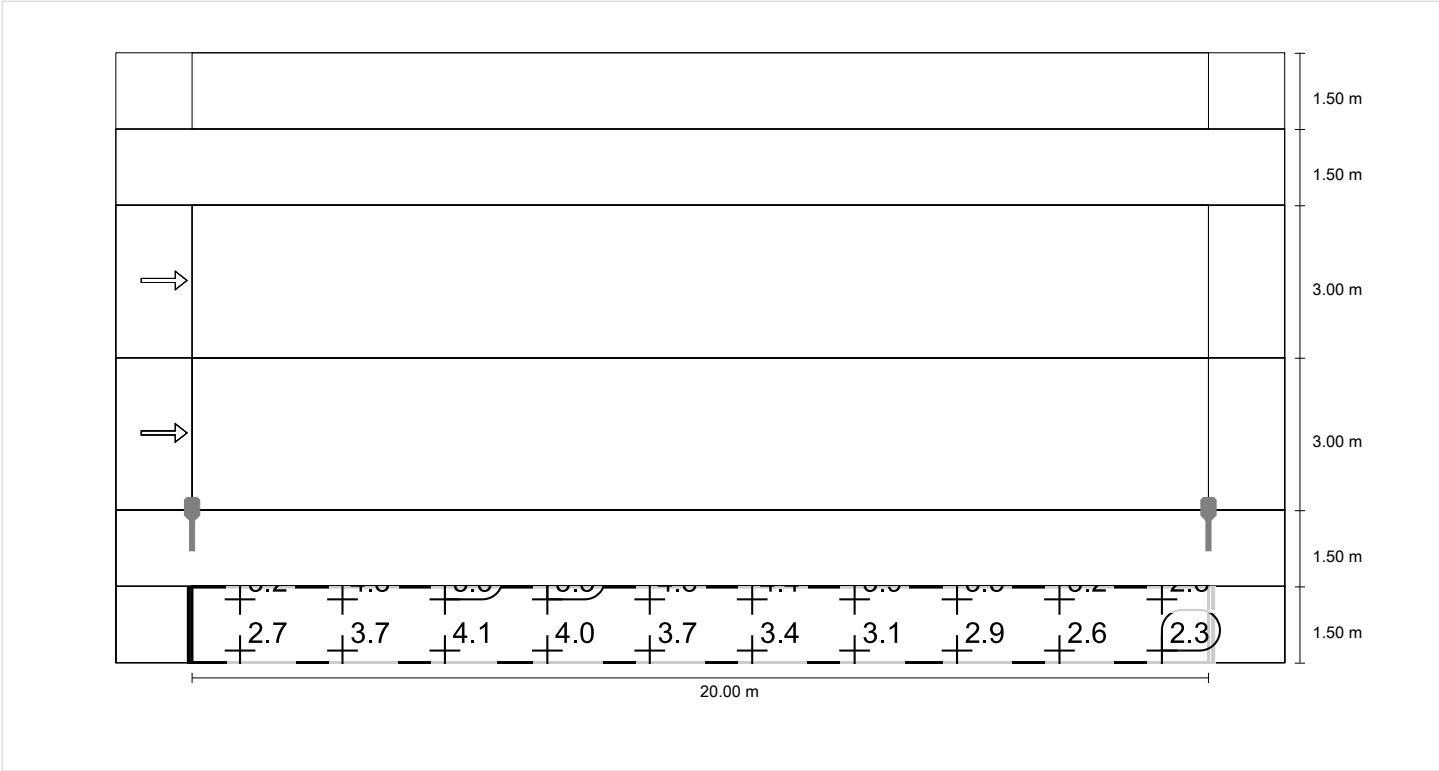
Em [lx] ≥ 5.00 ≤ 7.50	Emin [lx] ≥ 1.00	Emin (v) ≥ 1.50
✓ 7.44	✓ 5.51	✓ 2.30

Horizontal illuminance



Scale: 1 : 200

Vertical illuminance (west)



Scale: 1 : 200