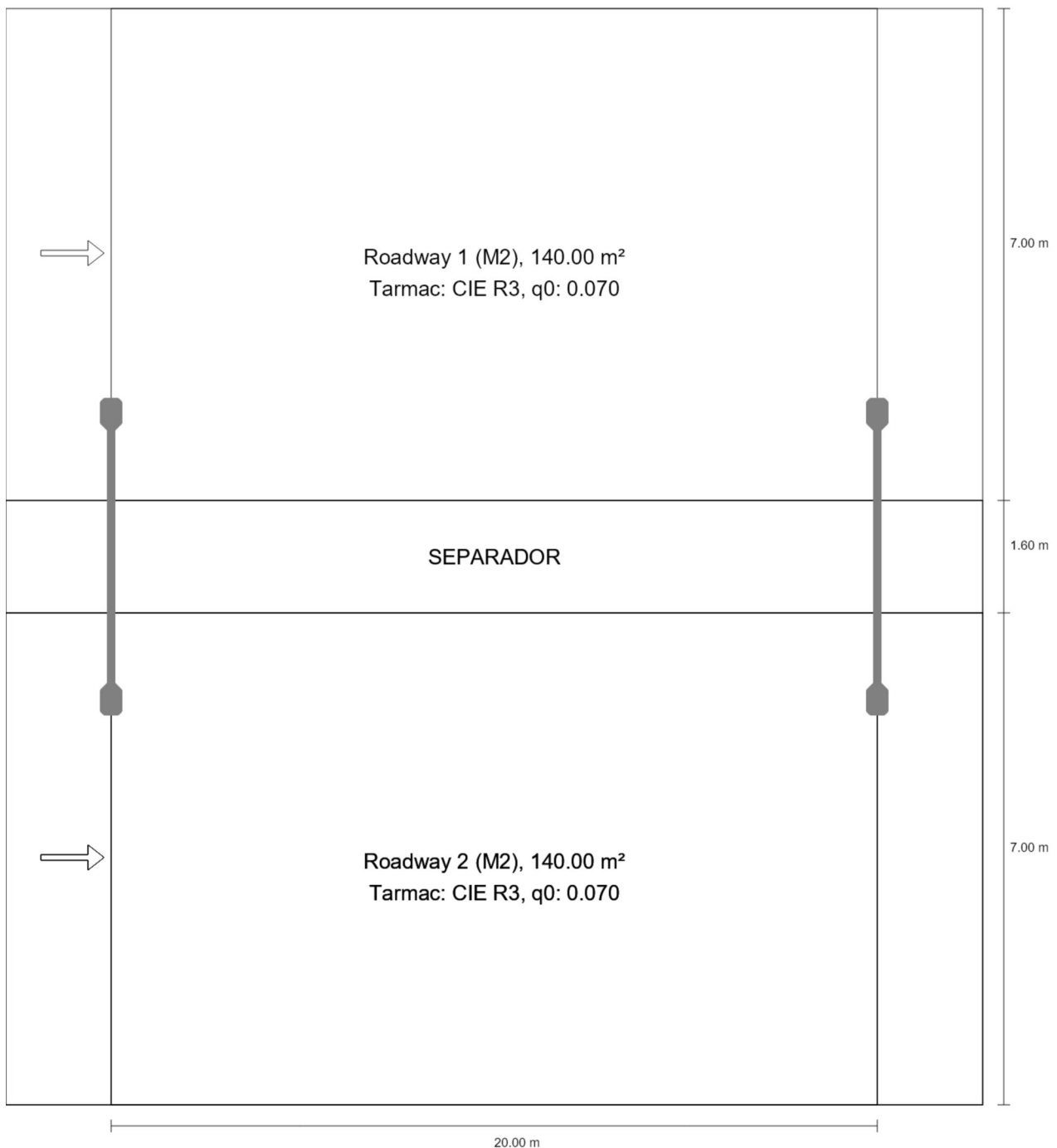


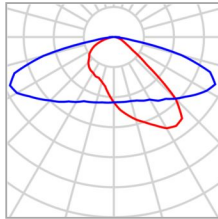
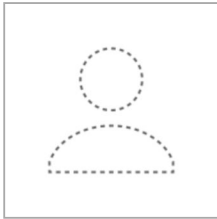
CALLE 45, VIA CHIMITA

## Description

CALLE 45, VIA CHIMITA

**Summary (according to EN 13201:2015)**

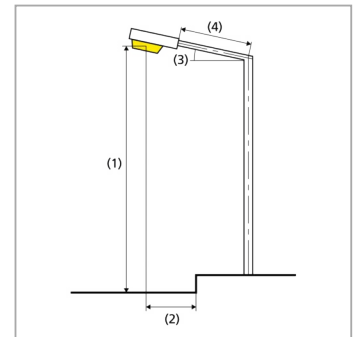
CALLE 45, VIA CHIMITA

**Summary (according to EN 13201:2015)**

Manufacturer	Not yet a DIALux member	P	120.0 W
Fitting	1x	$\Phi_{\text{Lamp}}$	15885 lm
		$\Phi_{\text{Luminaire}}$	15892 lm
		$\eta$	100.05 %

**Streetlight # 1 Profile M2-1.ies (single side bottom, 2 per pole)**

Pole distance	20.000 m
(1) Light spot height	9.500 m
(2) Light point overhang	9.800 m
(3) Boom inclination	5.0°
(4) Boom length	2.000 m
Annual operating hours	4000 h: 100.0 %, 240.0 W
Wattage / route	12000.0 W/km
ULR / ULOR	0.00 / 0.00
Max. luminous intensities	$\geq 70^\circ$ : 506 cd/klm $\geq 80^\circ$ : 325 cd/klm $\geq 90^\circ$ : 17.4 cd/klm
Luminous intensity class	–
The luminous intensity values in [cd/klm] for calculation of the luminous intensity class refer to the luminaire luminous flux according to EN 13201:2015.	
Glare index class	D.3
MF	0.90



CALLE 45, VIA CHIMITA

**Summary (according to EN 13201:2015)**

Results for valuation fields

A maintenance factor of 0.90 was used for calculating for the installation.

	Symbol	Calculated	Target	Check
Roadway 1 (M2)	$L_{av}$	1.93 cd/m <sup>2</sup>	$\geq 1.50 \text{ cd/m}^2$	✓
	$U_o$	0.66	$\geq 0.40$	✓
	$U_l$	0.81	$\geq 0.70$	✓
	TI	3 %	$\leq 10 \%$	✓
	$R_{EI}$	0.55	$\geq 0.35$	✓
Roadway 2 (M2)	$L_{av}$	1.98 cd/m <sup>2</sup>	$\geq 1.50 \text{ cd/m}^2$	✓
	$U_o$	0.63	$\geq 0.40$	✓
	$U_l$	0.68	$\geq 0.70$	✗
	TI	3 %	$\leq 10 \%$	✓
	$R_{EI}$	0.55	$\geq 0.35$	✓

Results for energy efficiency indicators

	Symbol	Calculated	Energy Consumption
CALLE 45, VIA CHIMITA	$D_p$	0.019 W/lx*m <sup>2</sup>	–
Streetlight # 1 Profile M2-1.ies (single side bottom)	$D_e$	3.4 kWh/m <sup>2</sup> yr	960.0 kWh/yr

CALLE 45, VIA CHIMITA

**Roadway 1 (M2)**

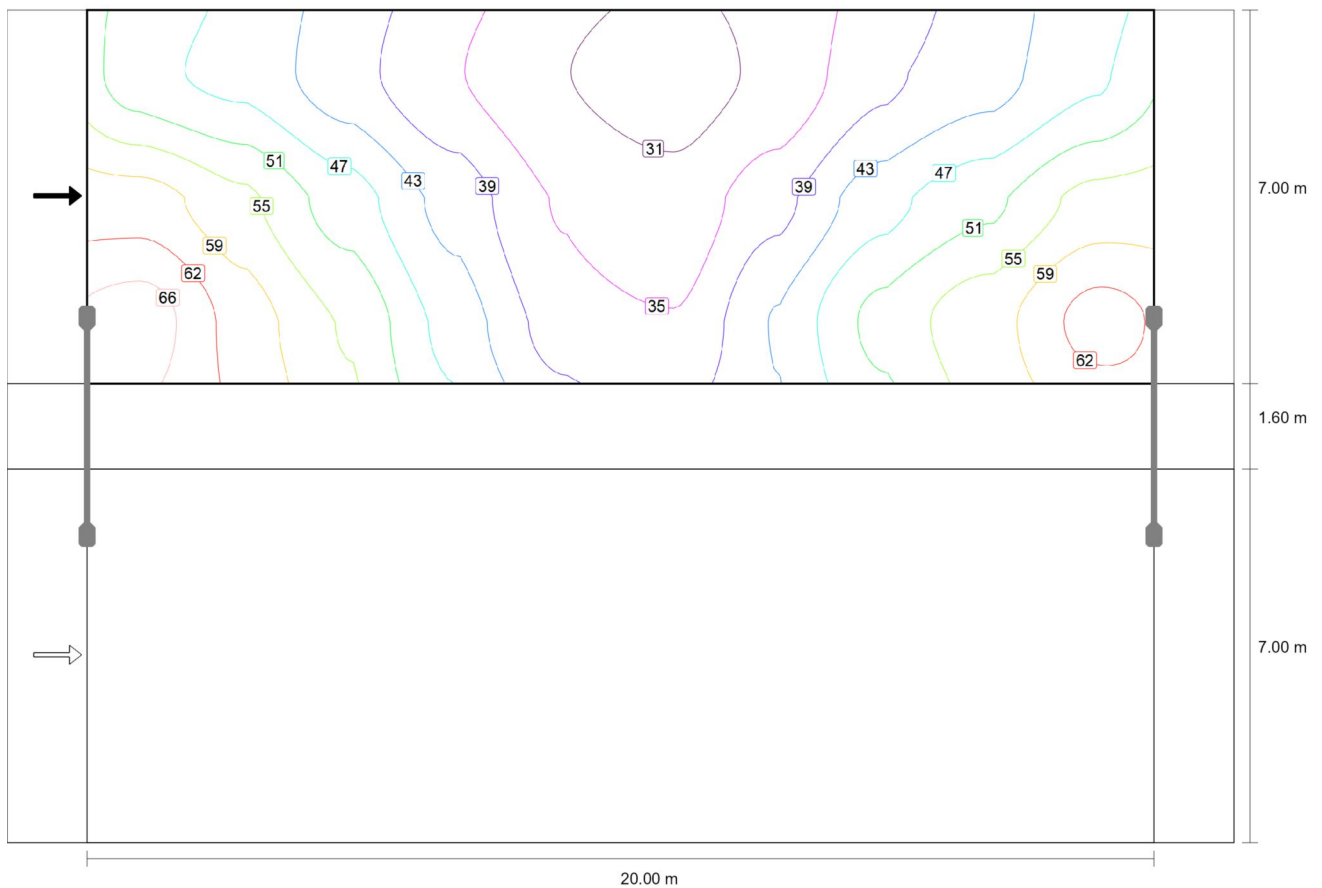
Results for valuation field

	Symbol	Calculated	Target	Check
Roadway 1 (M2)	$L_{av}$	1.93 cd/m <sup>2</sup>	$\geq 1.50 \text{ cd/m}^2$	✓
	$U_o$	0.66	$\geq 0.40$	✓
	$U_l$	0.81	$\geq 0.70$	✓
	TI	3 %	$\leq 10 \%$	✓
	$R_{EI}$	0.55	$\geq 0.35$	✓

Results for observer

	Symbol	Calculated	Target	Check
Observer 1 Position: -60.000 m, 12.100 m, 1.500 m	$L_{av}$	1.93 cd/m <sup>2</sup>	$\geq 1.50 \text{ cd/m}^2$	✓
	$U_o$	0.66	$\geq 0.40$	✓
	$U_l$	0.81	$\geq 0.70$	✓
	TI	3 %	$\leq 10 \%$	✓

CALLE 45, VIA CHIMITA

**Roadway 1 (M2)**

Maintenance value, horizontal illuminance [lx] (Iso-illuminance curves)

CALLE 45, VIA CHIMITA

**Roadway 1 (M2)**

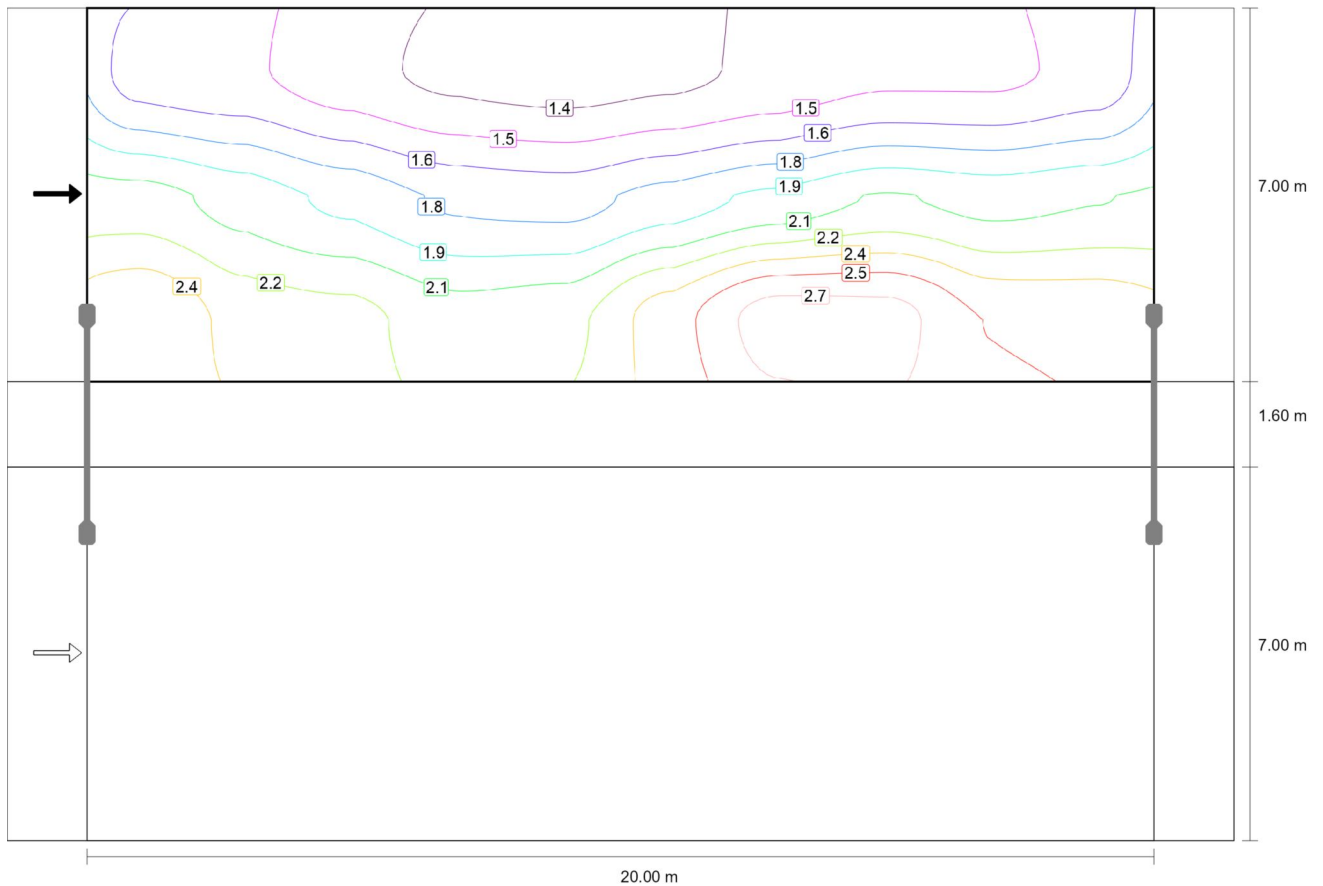
Maintenance value, horizontal illuminance [lx] (Value grid)

m	1.000	3.000	5.000	7.000	9.000	11.000	13.000	15.000	17.000	19.000
14.433	48.34	45.42	40.23	34.93	30.88	28.80	31.71	37.81	41.16	45.97
12.100	60.43	55.41	48.58	41.20	34.38	32.27	37.47	45.18	49.76	56.03
9.767	68.42	60.96	54.17	45.14	36.97	35.11	42.97	51.82	56.90	63.96

Maintenance value, horizontal illuminance [lx] (Value chart)

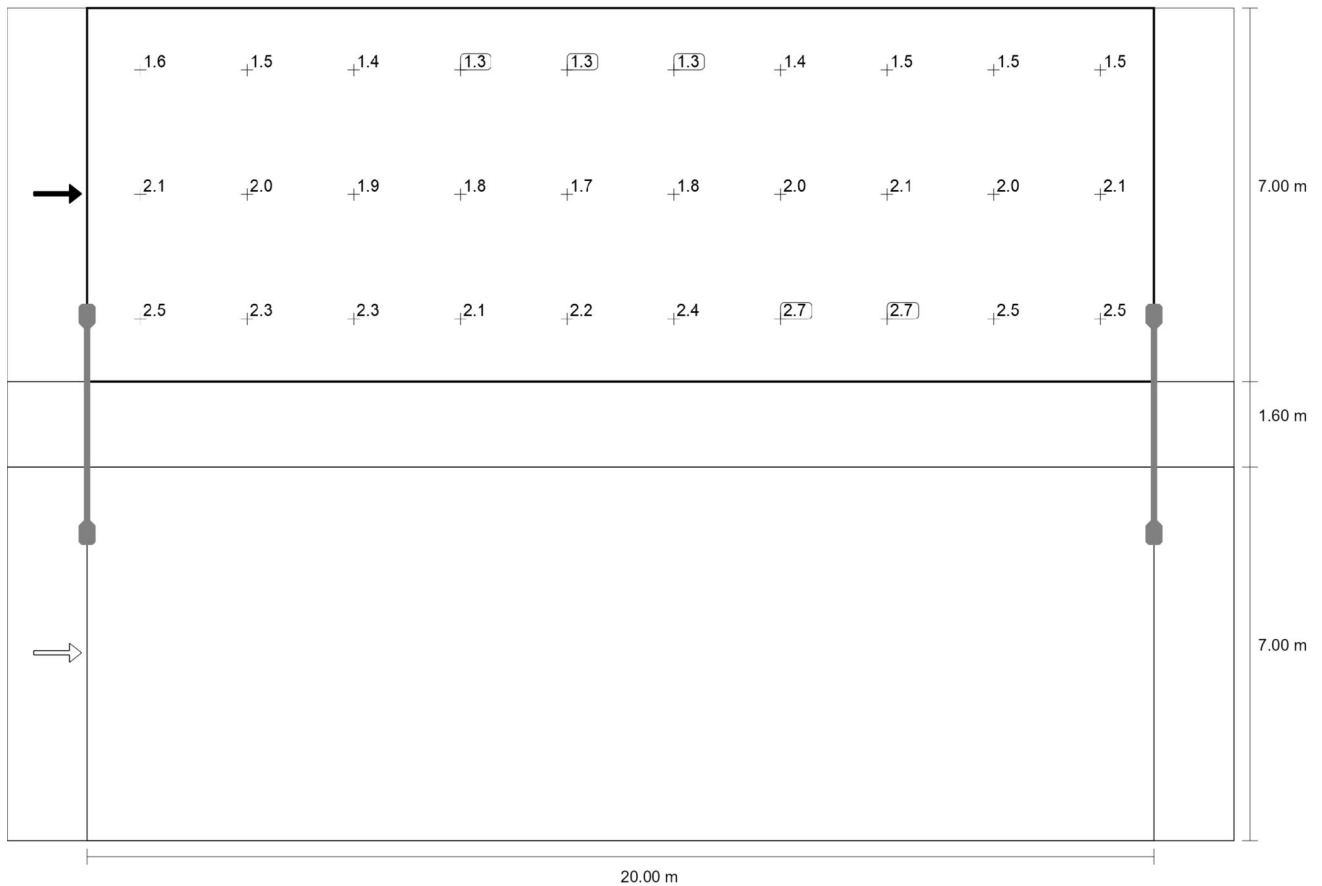
	E <sub>av</sub>	E <sub>min</sub>	E <sub>max</sub>	U <sub>o</sub> (g <sub>1</sub> )	g <sub>2</sub>
Maintenance value, horizontal illuminance	45.4 lx	28.8 lx	68.4 lx	0.63	0.42

CALLE 45, VIA CHIMITA

**Roadway 1 (M2)**Observer 1: Maintenance value, luminance with dry roadway [ $\text{cd}/\text{m}^2$ ] (Iso-illuminance curves)



CALLE 45, VIA CHIMITA

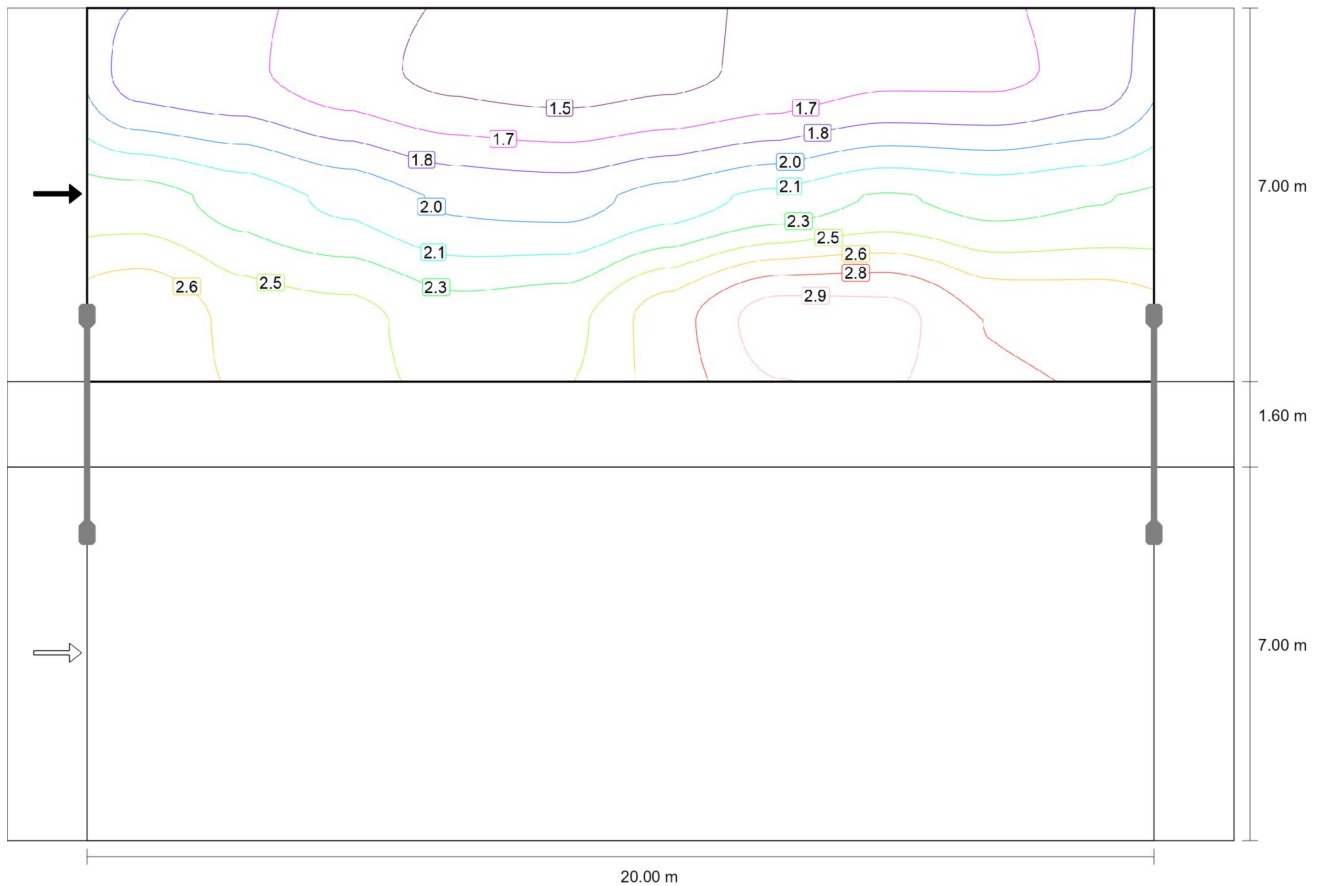
**Roadway 1 (M2)**Observer 1: Maintenance value, luminance with dry roadway [ $\text{cd/m}^2$ ] (Value grid)

m	1.000	3.000	5.000	7.000	9.000	11.000	13.000	15.000	17.000	19.000
14.433	1.57	1.52	1.41	1.32	1.28	1.32	1.39	1.47	1.47	1.55
12.100	2.14	2.02	1.89	1.76	1.73	1.85	1.97	2.08	2.02	2.07
9.767	2.49	2.32	2.26	2.14	2.18	2.44	2.72	2.71	2.50	2.48

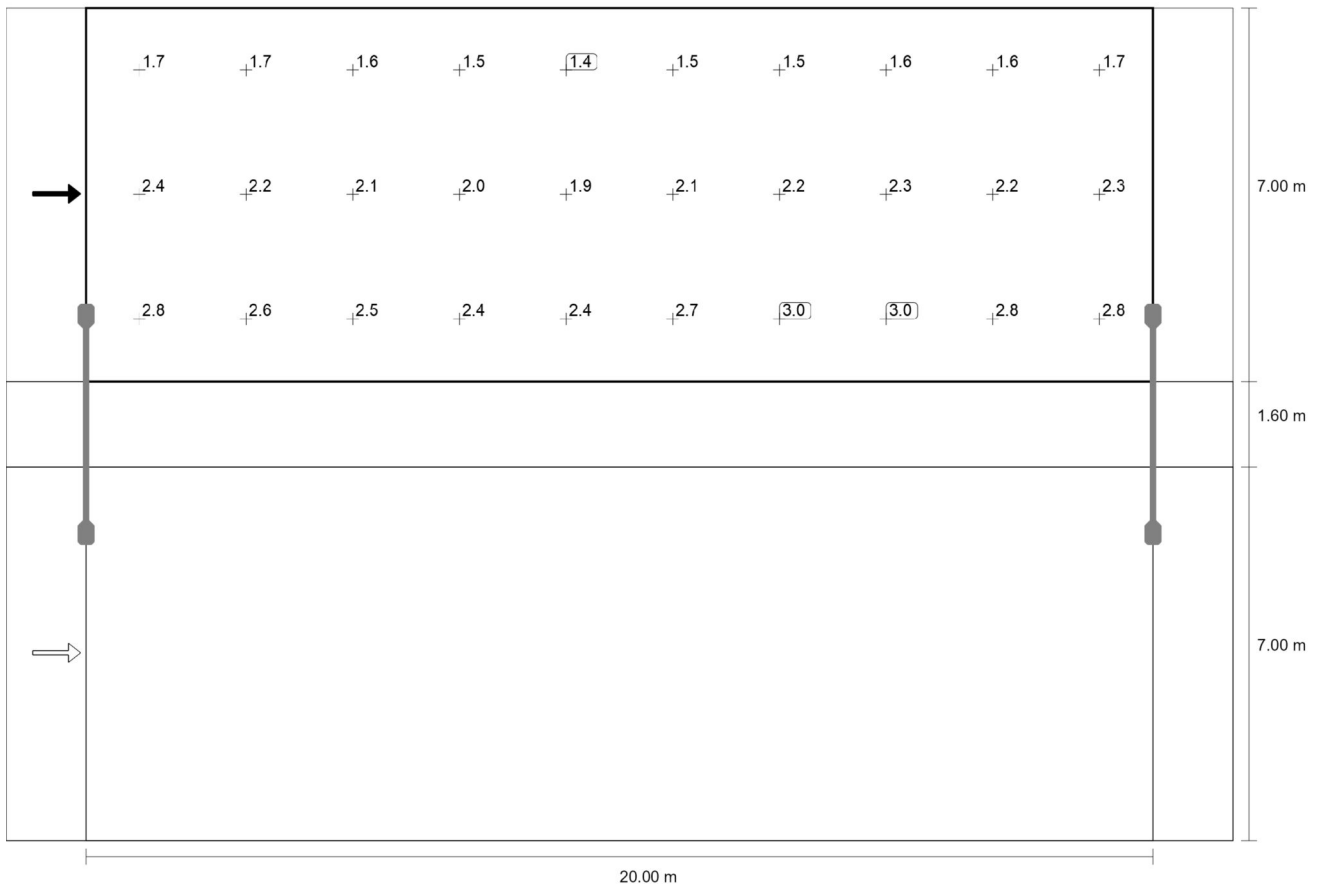
Observer 1: Maintenance value, luminance with dry roadway [ $\text{cd/m}^2$ ] (Value chart)

	$L_{av}$	$L_{min}$	$L_{max}$	$U_o (g_1)$	$g_2$
Observer 1: Maintenance value, luminance with dry roadway	1.93 $\text{cd/m}^2$	1.28 $\text{cd/m}^2$	2.72 $\text{cd/m}^2$	0.66	0.47

CALLE 45, VIA CHIMITA

**Roadway 1 (M2)**Observer 1: Luminance with new installation [ $\text{cd}/\text{m}^2$ ] (Iso-illuminance curves)

CALLE 45, VIA CHIMITA

**Roadway 1 (M2)**

Observer 1: Luminance with new installation [cd/m²] (Value grid)

m	1.000	3.000	5.000	7.000	9.000	11.000	13.000	15.000	17.000	19.000
14.433	1.75	1.69	1.56	1.46	1.42	1.46	1.54	1.63	1.63	1.72
12.100	2.37	2.24	2.10	1.95	1.93	2.05	2.18	2.32	2.25	2.30
9.767	2.77	2.57	2.51	2.38	2.42	2.71	3.03	3.01	2.78	2.75

Observer 1: Luminance with new installation [cd/m²] (Value chart)

	L <sub>av</sub>	L <sub>min</sub>	L <sub>max</sub>	U <sub>o</sub> (g <sub>1</sub> )	g <sub>2</sub>
Observer 1: Luminance with new installation	2.15 cd/m²	1.42 cd/m²	3.03 cd/m²	0.66	0.47

CALLE 45, VIA CHIMITA

**Roadway 2 (M2)**

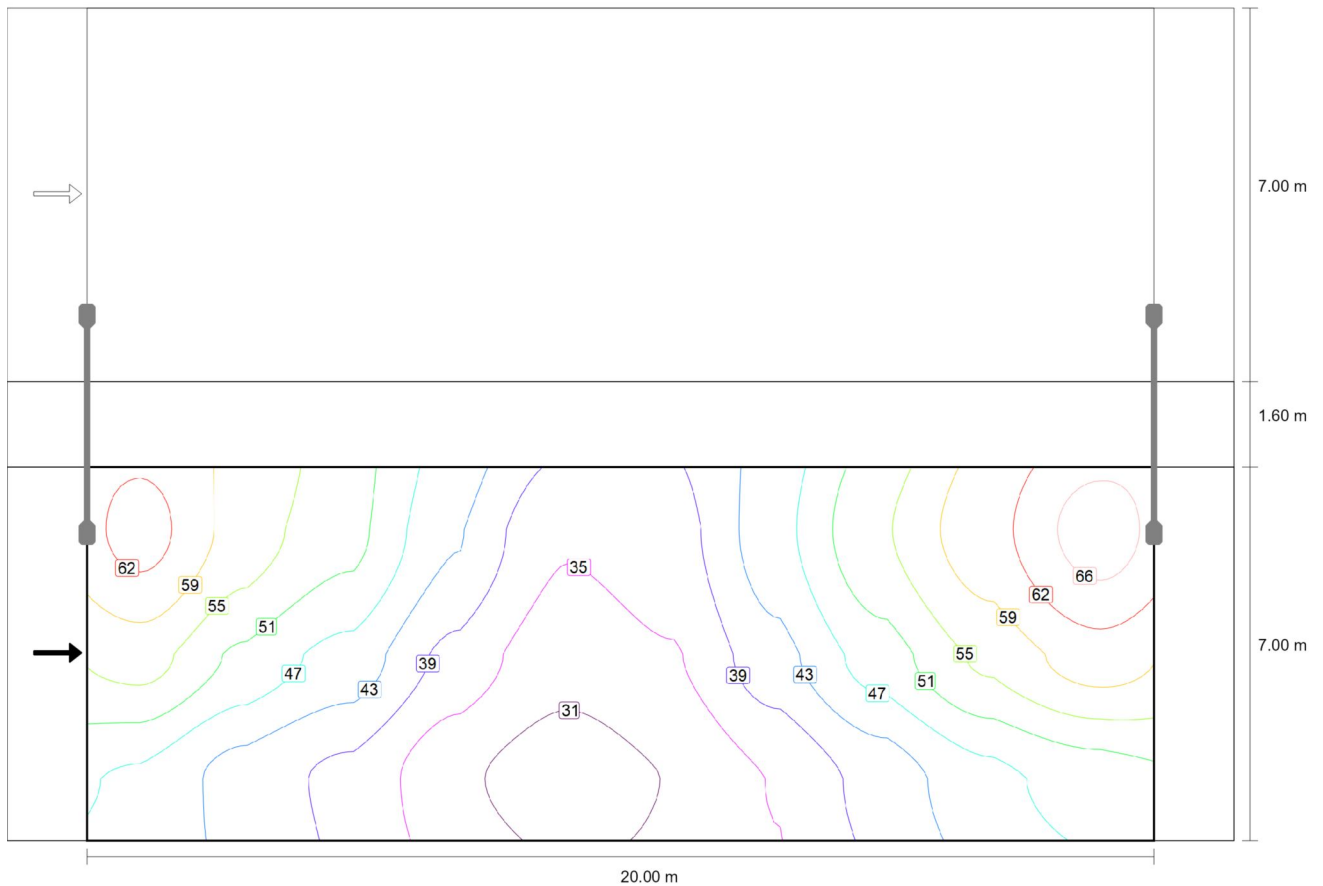
Results for valuation field

	Symbol	Calculated	Target	Check
Roadway 2 (M2)	$L_{av}$	1.98 cd/m <sup>2</sup>	$\geq 1.50$ cd/m <sup>2</sup>	✓
	$U_o$	0.63	$\geq 0.40$	✓
	$U_l$	0.68	$\geq 0.70$	✗
	TI	3 %	$\leq 10$ %	✓
	$R_{El}$	0.55	$\geq 0.35$	✓

Results for observer

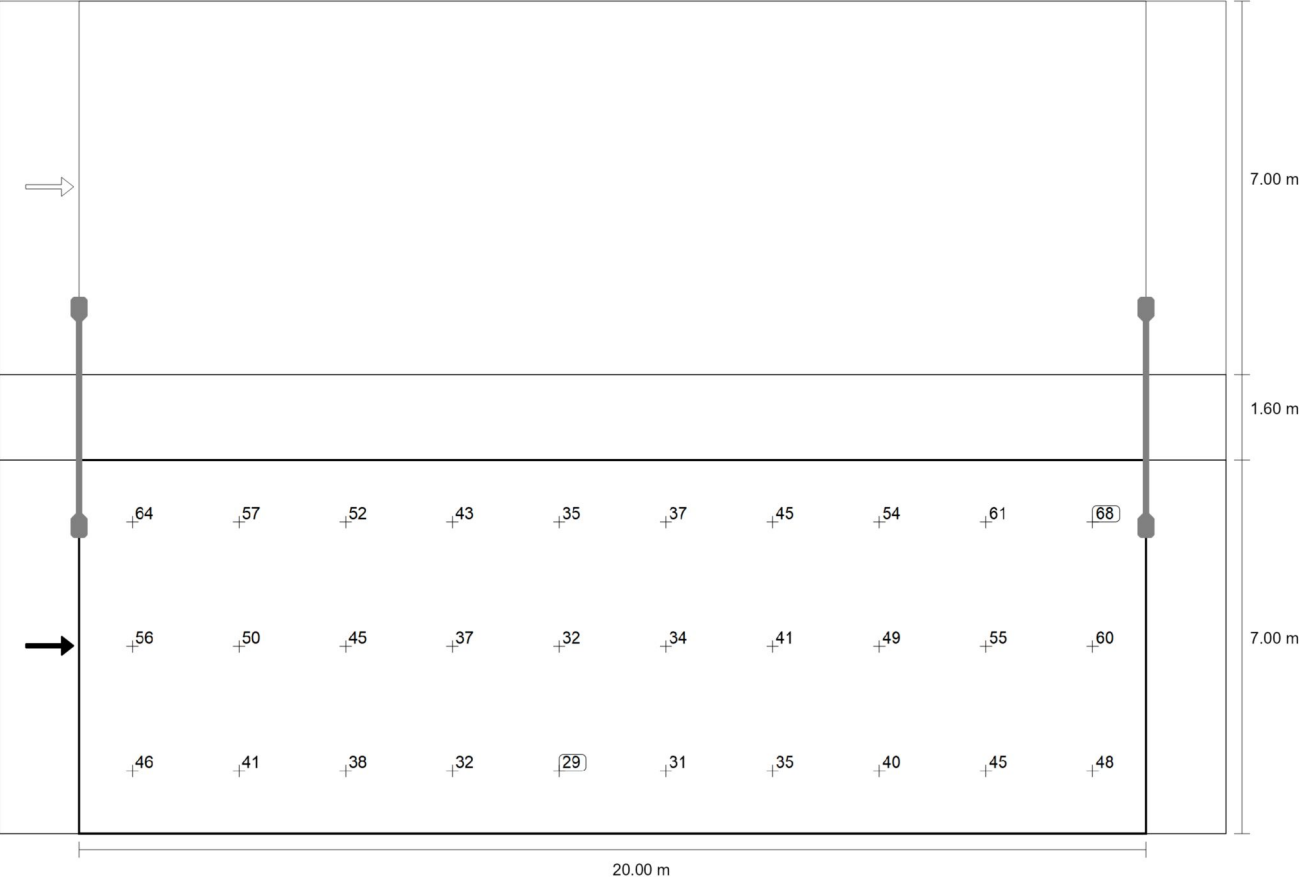
	Symbol	Calculated	Target	Check
Observer 1 Position: -60.000 m, 3.500 m, 1.500 m	$L_{av}$	1.98 cd/m <sup>2</sup>	$\geq 1.50$ cd/m <sup>2</sup>	✓
	$U_o$	0.63	$\geq 0.40$	✓
	$U_l$	0.68	$\geq 0.70$	✗
	TI	3 %	$\leq 10$ %	✓

CALLE 45, VIA CHIMITA

**Roadway 2 (M2)**

Maintenance value, horizontal illuminance [lx] (Iso-illuminance curves)

CALLE 45, VIA CHIMITA  
Roadway 2 (M2)



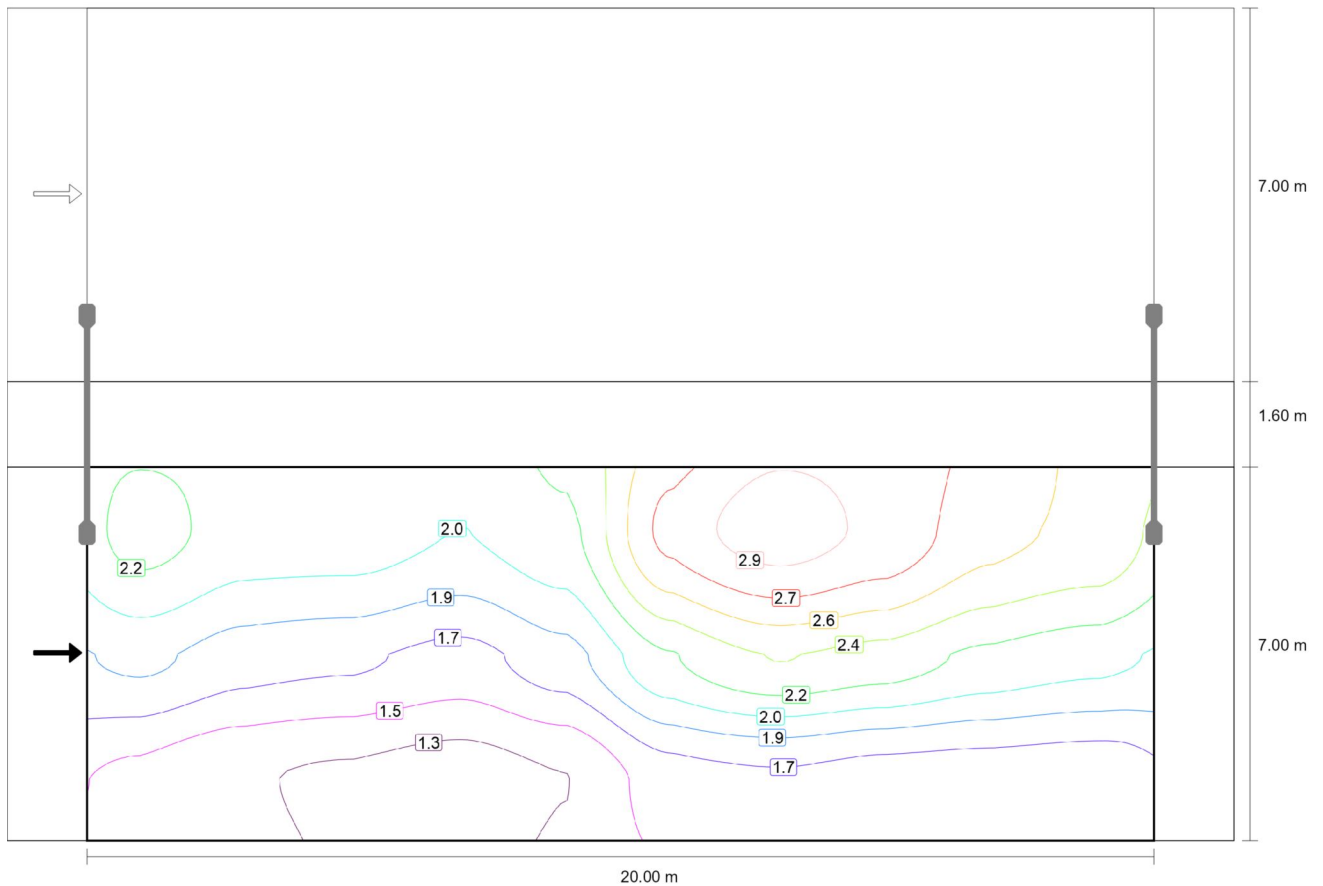
Maintenance value, horizontal illuminance [lx] (Value grid)

m	1.000	3.000	5.000	7.000	9.000	11.000	13.000	15.000	17.000	19.000
5.833	63.96	56.90	51.82	42.97	35.12	36.97	45.14	54.17	60.96	68.42
3.500	56.04	49.77	45.18	37.48	32.28	34.39	41.21	48.59	55.41	60.45
1.167	45.98	41.17	37.82	31.71	28.81	30.89	34.94	40.23	45.44	48.35

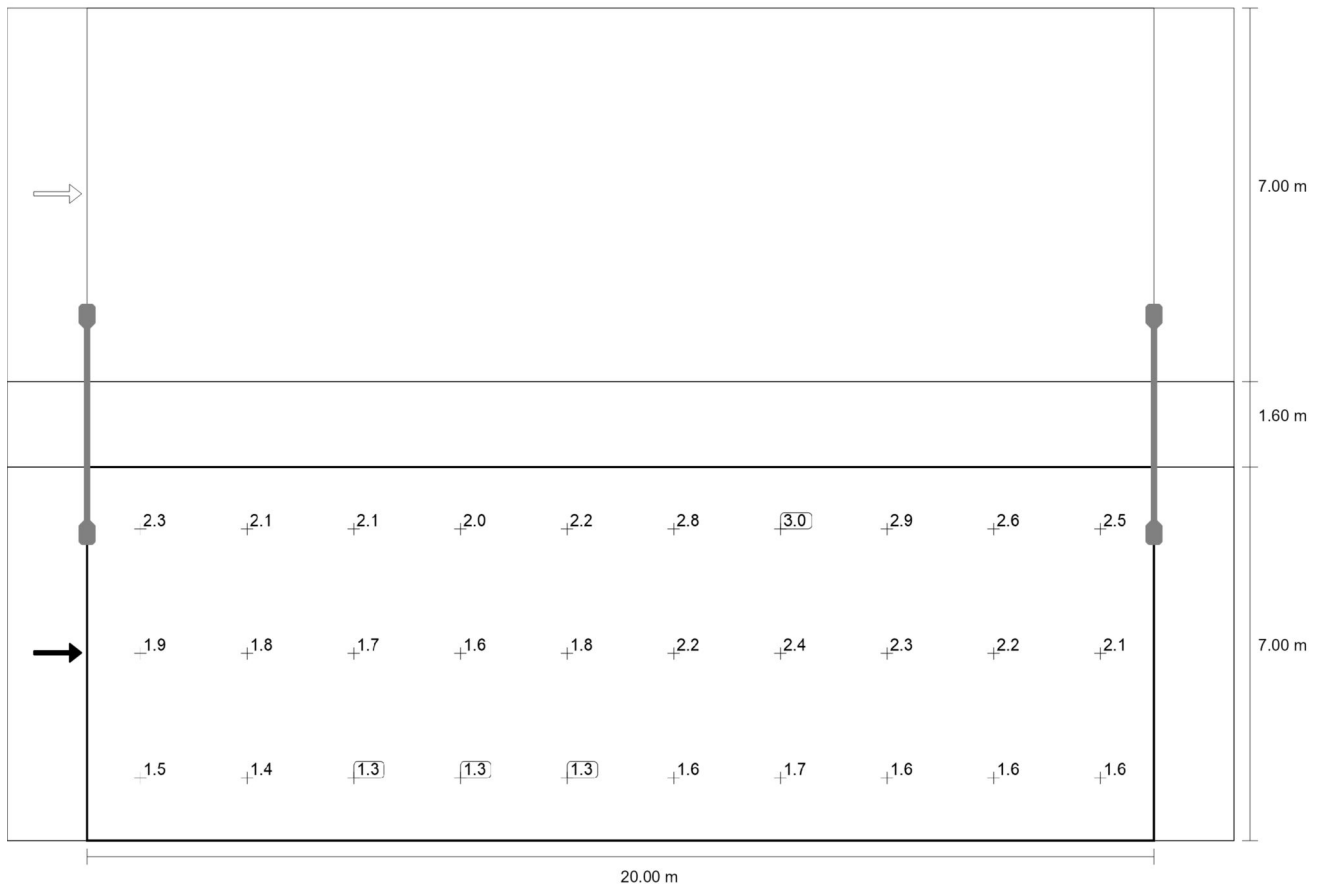
Maintenance value, horizontal illuminance [lx] (Value chart)

	E <sub>av</sub>	E <sub>min</sub>	E <sub>max</sub>	U <sub>o</sub> (g <sub>1</sub> )	g <sub>2</sub>
Maintenance value, horizontal illuminance	45.4 lx	28.8 lx	68.4 lx	0.63	0.42

CALLE 45, VIA CHIMITA

**Roadway 2 (M2)**Observer 1: Maintenance value, luminance with dry roadway [ $\text{cd}/\text{m}^2$ ] (Iso-illuminance curves)

CALLE 45, VIA CHIMITA

**Roadway 2 (M2)**Observer 1: Maintenance value, luminance with dry roadway [ $\text{cd}/\text{m}^2$ ] (Value grid)

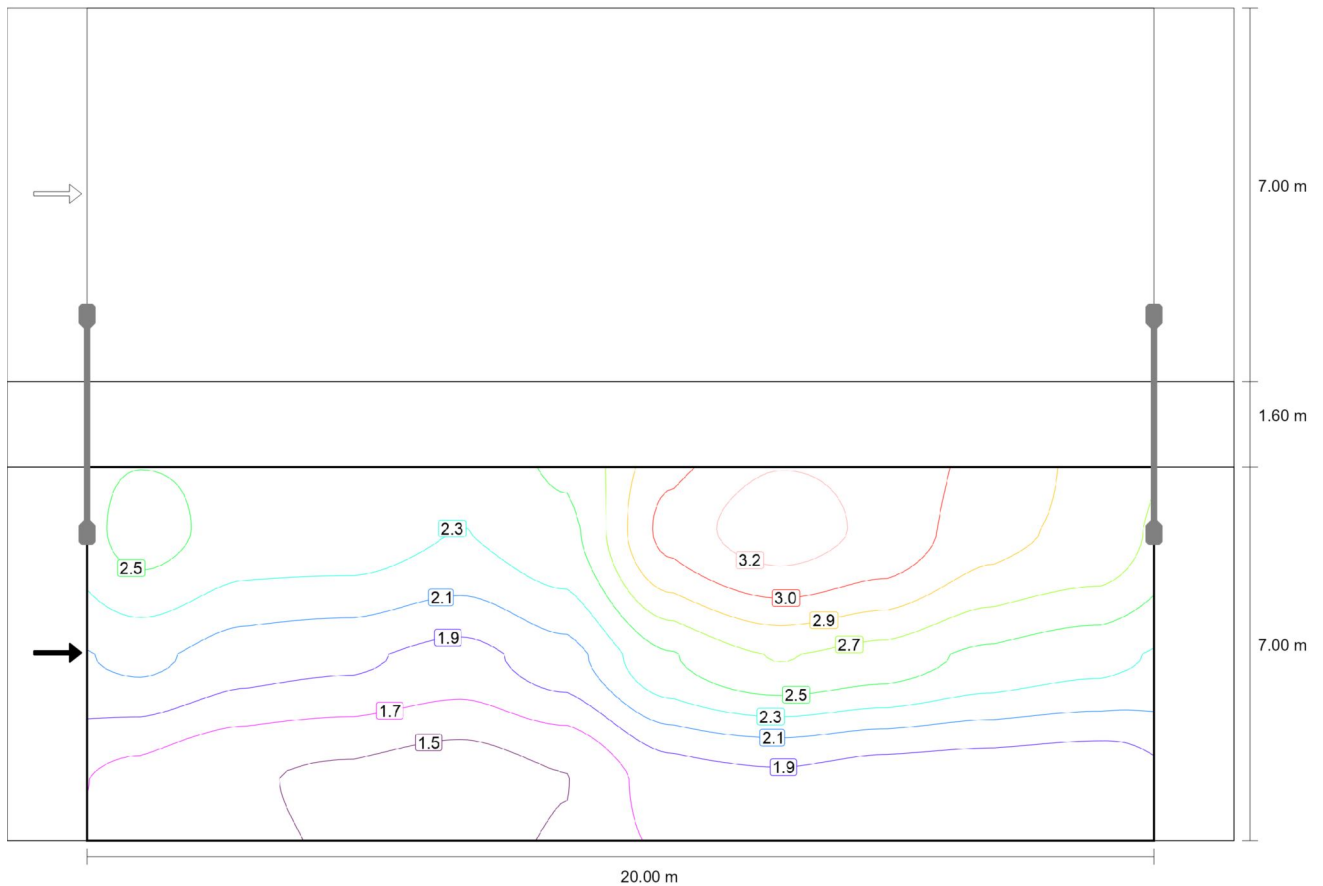
m	1.000	3.000	5.000	7.000	9.000	11.000	13.000	15.000	17.000	19.000
5.833	2.28	2.14	2.13	2.04	2.17	2.80	3.00	2.88	2.63	2.53
3.500	1.91	1.77	1.72	1.63	1.80	2.20	2.40	2.32	2.17	2.09
1.167	1.47	1.36	1.32	1.25	1.34	1.61	1.67	1.62	1.61	1.58

Observer 1: Maintenance value, luminance with dry roadway [ $\text{cd}/\text{m}^2$ ] (Value chart)

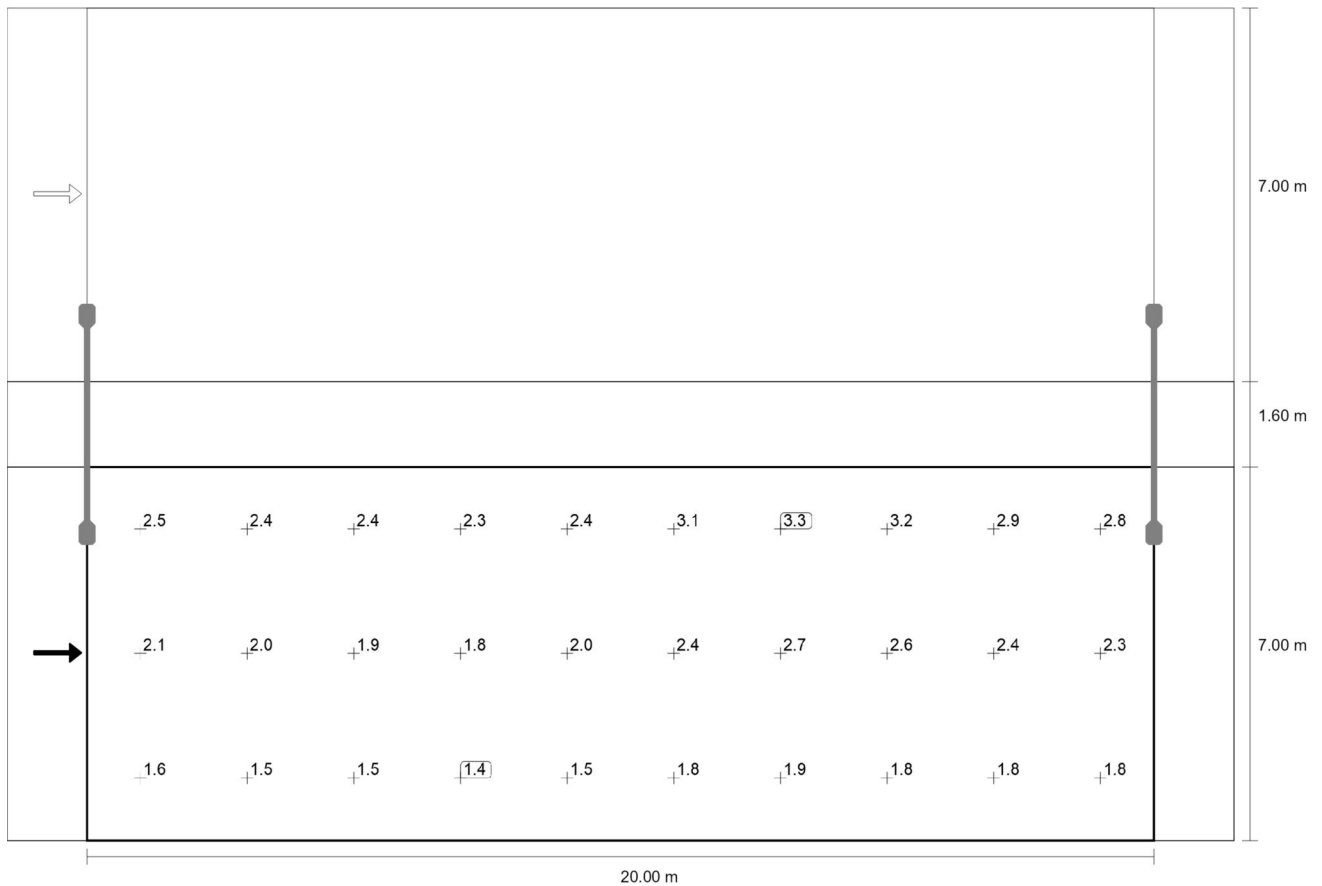
	$L_{av}$	$L_{min}$	$L_{max}$	$U_o (g_1)$	$g_2$
Observer 1: Maintenance value, luminance with dry roadway	1.98 $\text{cd}/\text{m}^2$	1.25 $\text{cd}/\text{m}^2$	3.00 $\text{cd}/\text{m}^2$	0.63	0.42



CALLE 45, VIA CHIMITA

**Roadway 2 (M2)**Observer 1: Luminance with new installation [ $\text{cd/m}^2$ ] (Iso-illuminance curves)

CALLE 45, VIA CHIMITA

**Roadway 2 (M2)**

Observer 1: Luminance with new installation [cd/m²] (Value grid)

m	1.000	3.000	5.000	7.000	9.000	11.000	13.000	15.000	17.000	19.000
5.833	2.54	2.38	2.37	2.27	2.41	3.11	3.34	3.20	2.92	2.81
3.500	2.12	1.96	1.92	1.81	2.00	2.45	2.67	2.58	2.42	2.33
1.167	1.63	1.51	1.46	1.39	1.49	1.78	1.85	1.80	1.78	1.75

Observer 1: Luminance with new installation [cd/m²] (Value chart)

	$L_{av}$	$L_{min}$	$L_{max}$	$U_o (g_1)$	$g_2$
Observer 1: Luminance with new installation	2.20 cd/m²	1.39 cd/m²	3.34 cd/m²	0.63	0.42