

Sindi-Urumarja jalg- jalgrattatee

Object

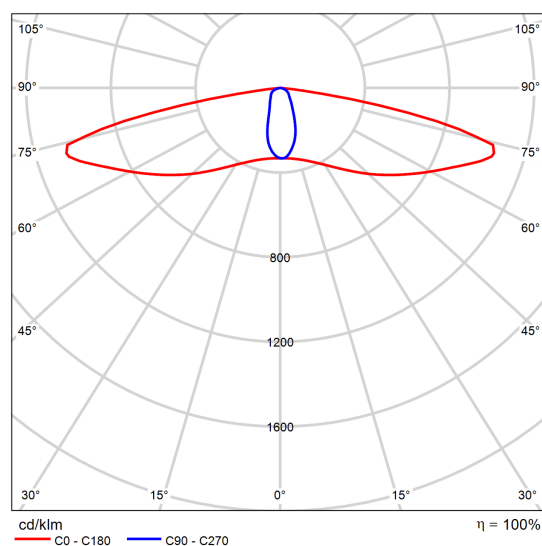
Kõpsa küla, Tori vald, Pärnu
maakond

Product data sheet

LUG Light Factory - URBINO S ED 1850lm/740 IP66 O9 szary I kl.

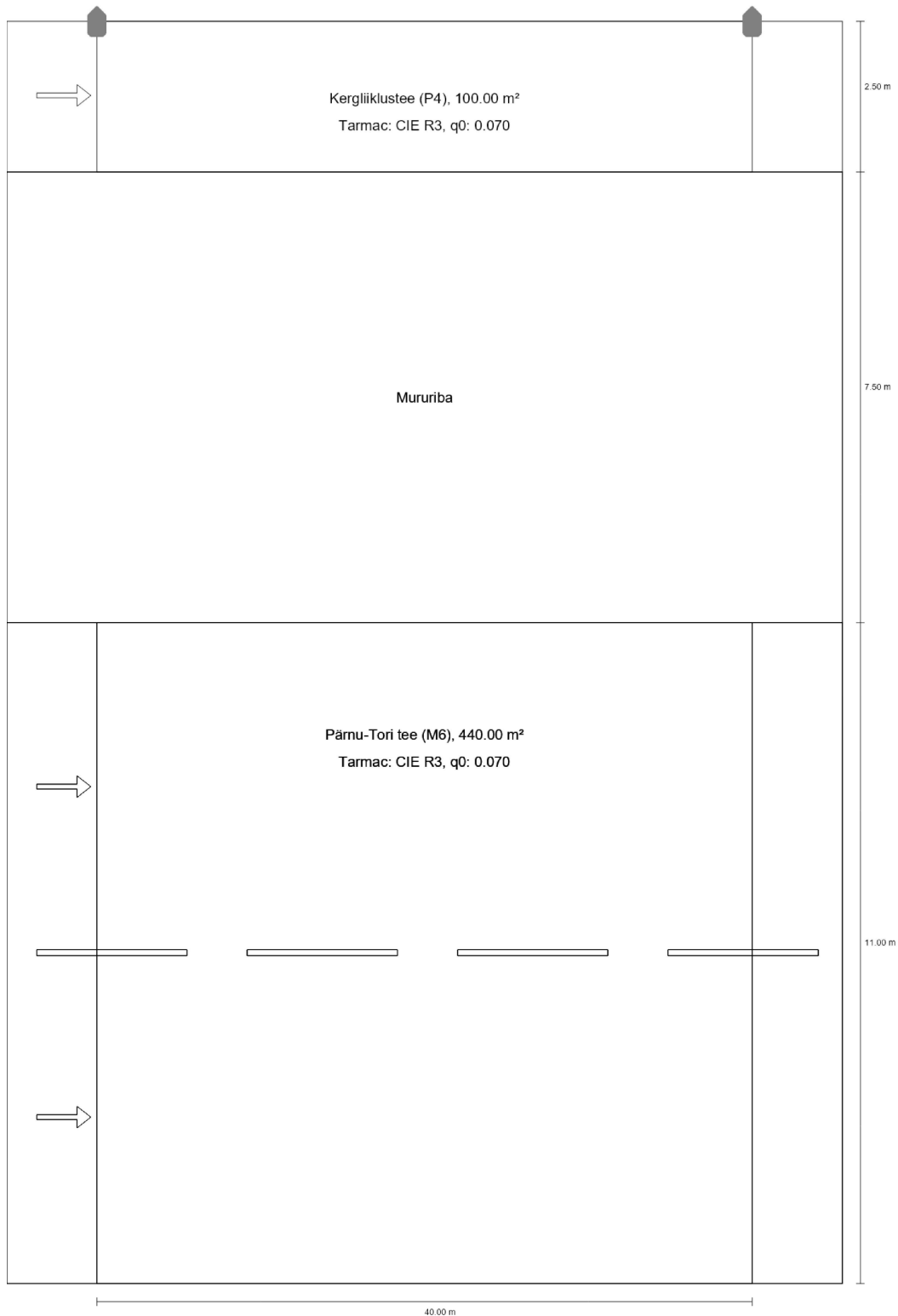


Article No.	130772.5L081.090
P	16.0 W
Φ_{Lamp}	1850 lm
$\Phi_{\text{Luminaire}}$	1850 lm
η	100.00 %
Luminous efficacy	115.6 lm/W
CCT	4000 K
CRI	70

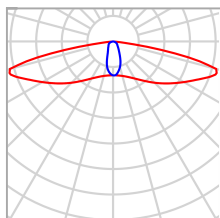


Polar LDC

Summary (according to EN 13201:2015)



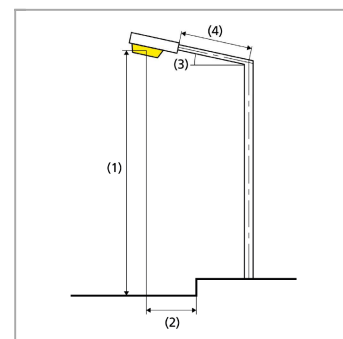
Summary (according to EN 13201:2015)



Manufacturer	LUG Light Factory	P	16.0 W
Article No.	130772.5L081.090	Φ_{Lamp}	1850 lm
Article name	URBINO S ED 1850lm/740 IP66 O9 szary I kl.	$\Phi_{\text{Luminaire}}$	1850 lm
Fitting	1x LED 4000K	η	100.00 %

URBINO S ED 1850lm/740 IP66 O9 szary I kl. (single side top)

Pole distance	40.000 m
(1) Light spot height	6.000 m
(2) Light point overhang	0.000 m
(3) Boom inclination	0.0°
(4) Boom length	0.000 m
Annual operating hours	4000 h: 100.0 %, 16.0 W
Wattage / route	400.0 W/km
ULR / ULOR	0.00 / 0.00
Max. luminous intensities Any direction forming the specified angle from the downward vertical, with the luminaire installed for use.	$\geq 70^\circ$: 1056 cd/klm $\geq 80^\circ$: 571 cd/klm $\geq 90^\circ$: 0.00 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.5
MF	0.81



Summary (according to EN 13201:2015)

Results for valuation fields

A maintenance factor of 0.81 was used for calculating for the installation.

	Symbol	Calculated	Target	Check
Kergliiklustee (P4)	E_{av}	5.17 lx	[5.00 - 7.50] lx	✓
	E_{min}	1.65 lx	≥ 1.00 lx	✓
Pärnu-Tori tee (M6)	$L_{av}^{(1)}$	0.00 cd/m ²	–	
	$U_o^{(1)}$	0.22	–	
	$U_l^{(1)}$	0.54	–	
	$TI^{(1) (3)}$	–	–	
	$R_{EI}^{(1)}$	0.37	–	

(1) Informative, not part of the valuation

(3) Result is not within the defined value range

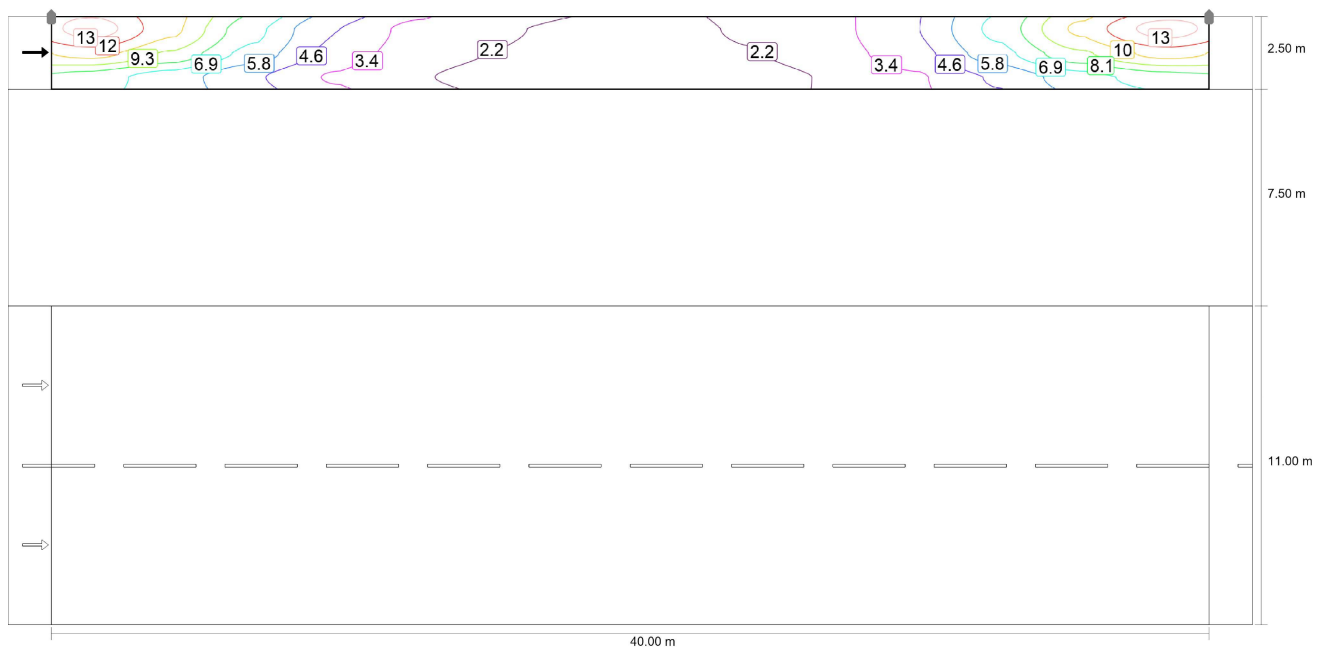
Results for energy efficiency indicators

	Symbol	Calculated	Energy Consumption
Valgusarvutus	D_p	0.030 W/lx*m ²	–
URBINO S ED 1850lm/740 IP66 O9 szary I kl. (single side top)	D_e	0.1 kWh/m ² yr	64.0 kWh/yr

Kergliiklustee (P4)

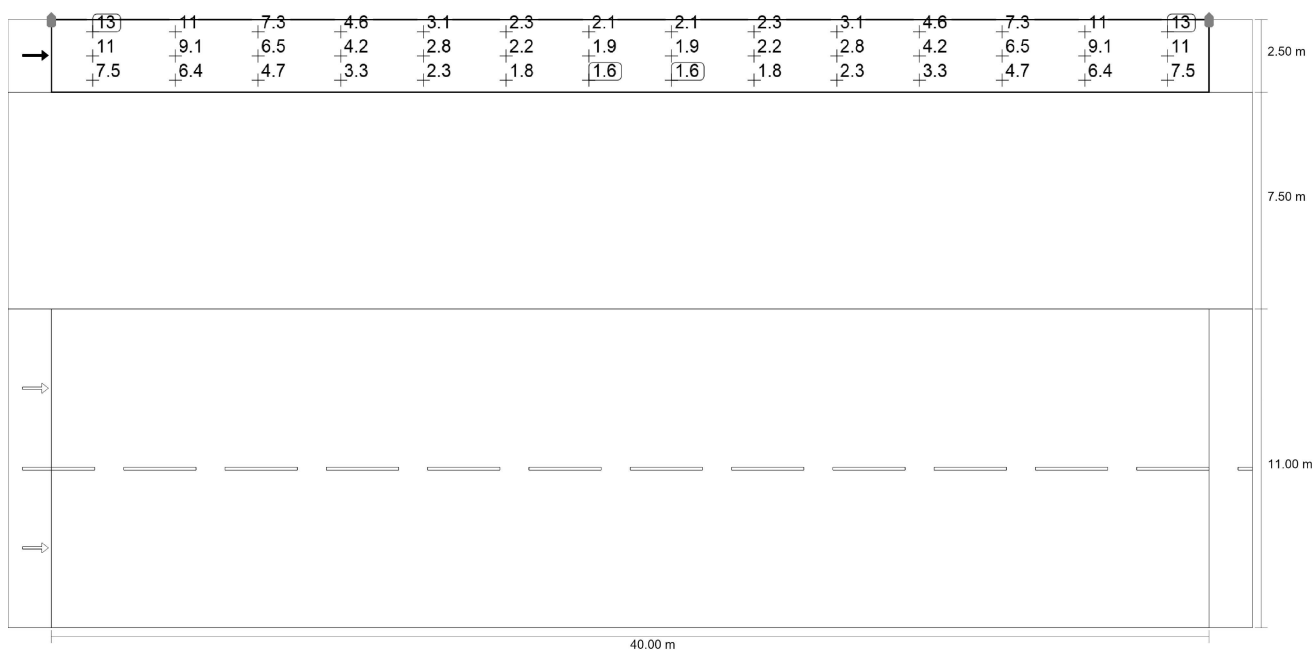
Results for valuation field

	Symbol	Calculated	Target	Check
Kergliiklustee (P4)	E_{av}	5.17 lx	[5.00 - 7.50] lx	✓
	E_{min}	1.65 lx	≥ 1.00 lx	✓



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

Kergliiklustee (P4)



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

m	1.429	4.286	7.143	10.000	12.857	15.714	18.571	21.429	24.286	27.143	30.000	32.857	35.714	38.571
20.583	13.37	10.73	7.25	4.57	3.07	2.33	2.05	2.05	2.33	3.07	4.57	7.25	10.73	13.37
19.750	10.87	9.05	6.46	4.15	2.85	2.17	1.89	1.89	2.17	2.85	4.15	6.46	9.05	10.87
18.917	7.50	6.38	4.74	3.26	2.32	1.83	1.65	1.65	1.83	2.32	3.26	4.74	6.38	7.50

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

	E_{av}	E_{min}	E_{max}	$U_o (g_1)$	g_2
Maintenance value, horizontal illuminance	5.17 lx	1.65 lx	13.4 lx	0.32	0.12

Pärnu-Tori tee (M6)

Results for valuation field

	Symbol	Calculated	Target	Check
Pärnu-Tori tee (M6)	$L_{av}^{(1)}$	0.00 cd/m ²	–	
	$U_o^{(1)}$	0.22	–	
	$U_l^{(1)}$	0.54	–	
	$TI^{(1)(3)}$	–	–	
	$REI^{(1)}$	0.37	–	

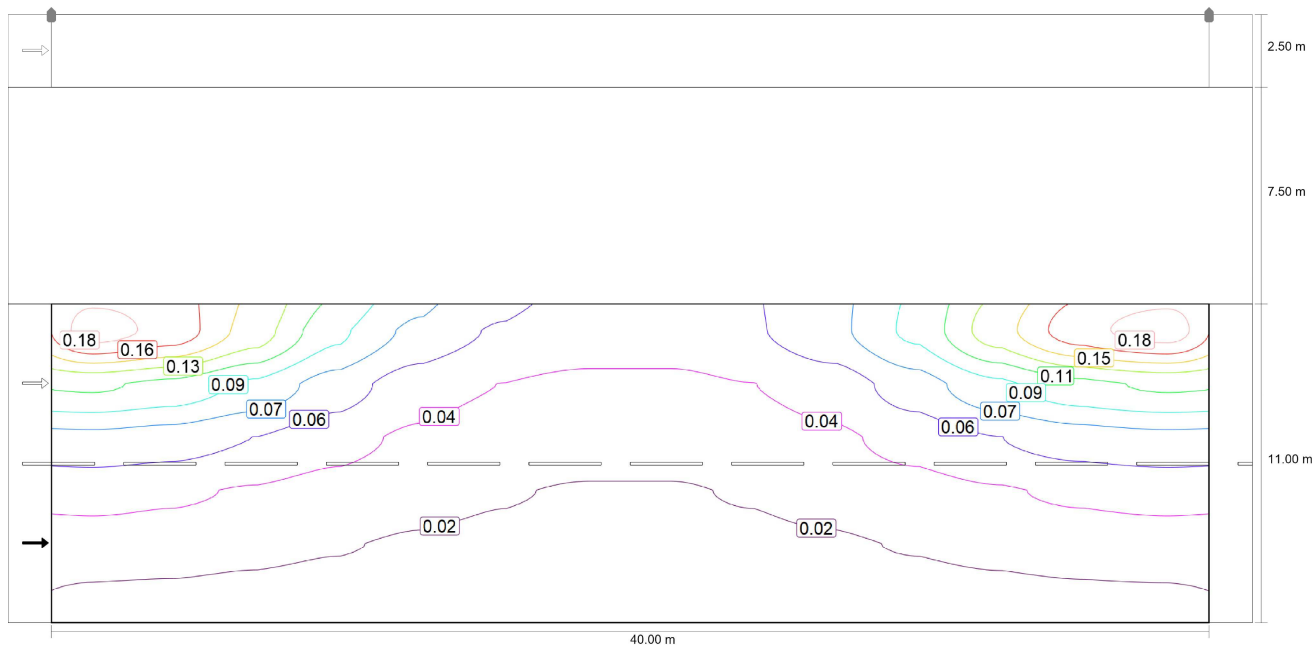
Results for observer

	Symbol	Calculated	Target	Check
Observer 1 Position: -60.000 m, 2.750 m, 1.500 m	$L_{av}^{(1)}$	0.00 cd/m ²	–	
	$U_o^{(1)}$	0.23	–	
	$U_l^{(1)}$	0.68	–	
	$TI^{(1)(3)}$	–	–	
Observer 2 Position: -60.000 m, 8.250 m, 1.500 m	$L_{av}^{(1)}$	0.00 cd/m ²	–	
	$U_o^{(1)}$	0.22	–	
	$U_l^{(1)}$	0.54	–	
	$TI^{(1)(3)}$	–	–	

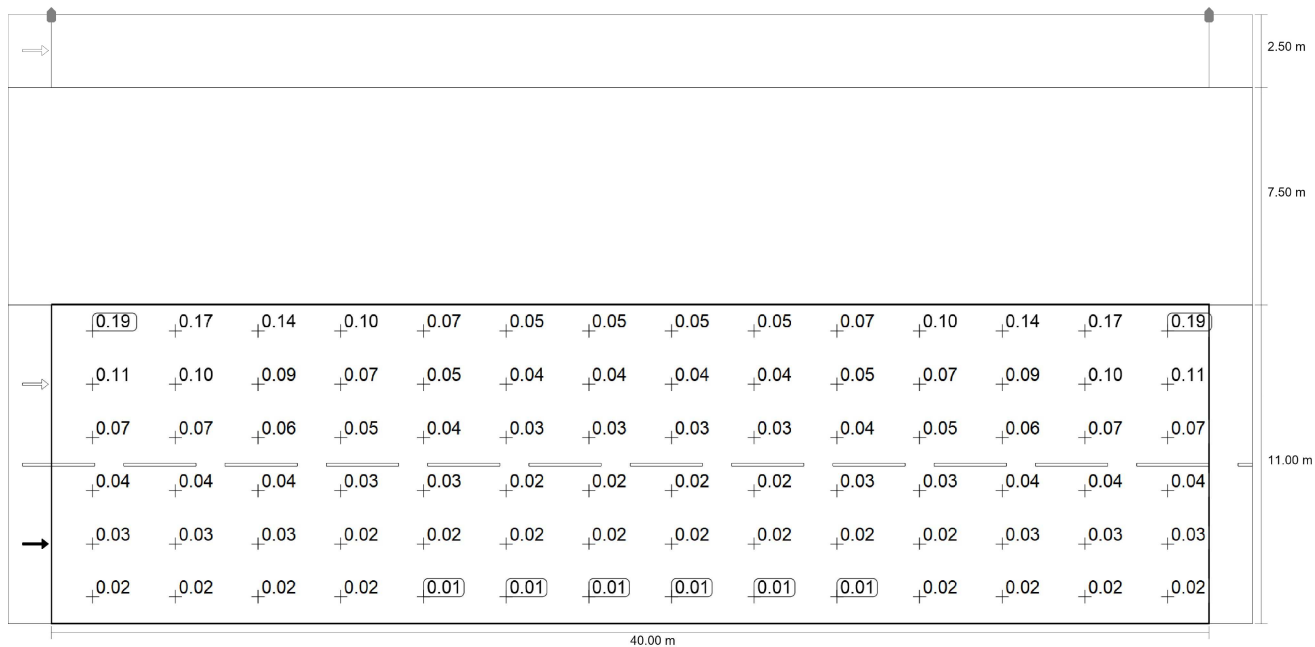
(1) Informative, not part of the valuation

(3) Result is not within the defined value range

Pärnu-Tori tee (M6)



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



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

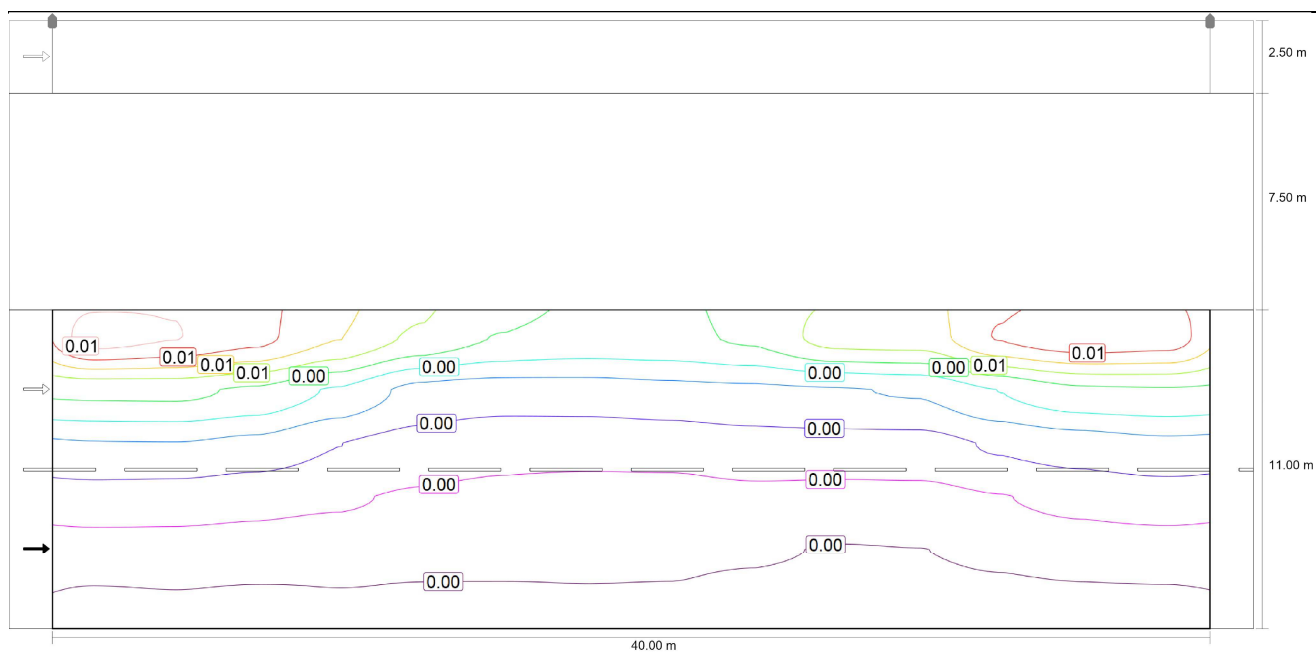
m	1.429	4.286	7.143	10.000	12.857	15.714	18.571	21.429	24.286	27.143	30.000	32.857	35.714	38.571
10.083	0.19	0.17	0.14	0.10	0.07	0.05	0.05	0.05	0.05	0.07	0.10	0.14	0.17	0.19
8.250	0.11	0.10	0.09	0.07	0.05	0.04	0.04	0.04	0.04	0.05	0.07	0.09	0.10	0.11

Pärnu-Tori tee (M6)

m	1.429	4.286	7.143	10.000	12.857	15.714	18.571	21.429	24.286	27.143	30.000	32.857	35.714	38.571
6.417	0.07	0.07	0.06	0.05	0.04	0.03	0.03	0.03	0.03	0.04	0.05	0.06	0.07	0.07
4.583	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04
2.750	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03
0.917	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02

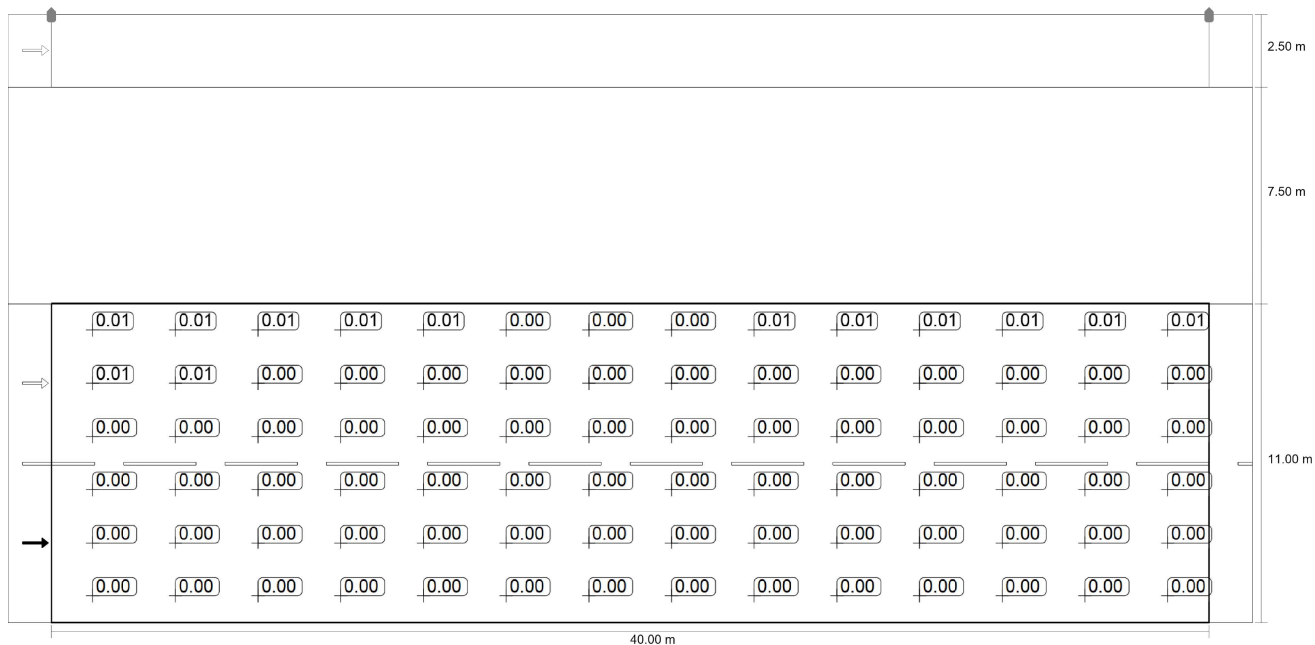
Maintenance value, horizontal illuminance [lx] (Value chart)

	E_{av}	E_{min}	E_{max}	$U_o (g_1)$	g_2
Maintenance value, horizontal illuminance	0.050 lx	0.013 lx	0.19 lx	0.26	0.07



Observer 1: Maintenance value, luminance with dry roadway [cd/m^2] (Iso-illuminance curves)

Pärnu-Tori tee (M6)



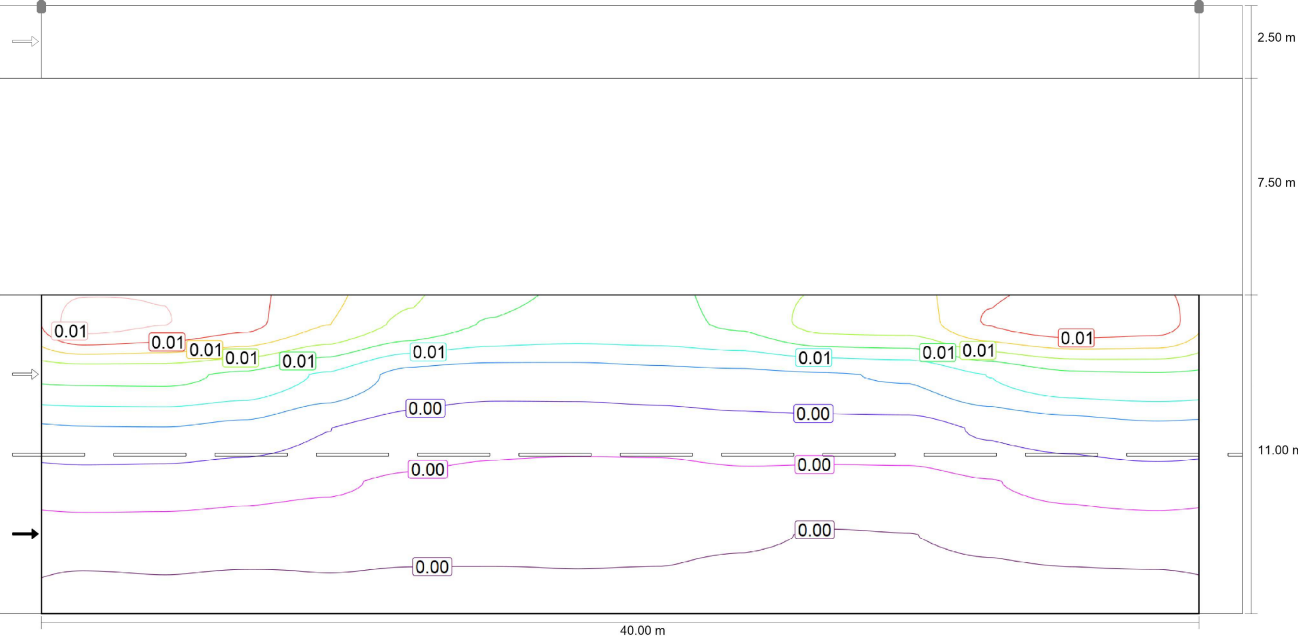
Observer 1: Maintenance value, luminance with dry roadway [cd/m^2] (Value grid)

m	1.429	4.286	7.143	10.000	12.857	15.714	18.571	21.429	24.286	27.143	30.000	32.857	35.714	38.571
10.083	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
8.250	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.417	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.583	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.750	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.917	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

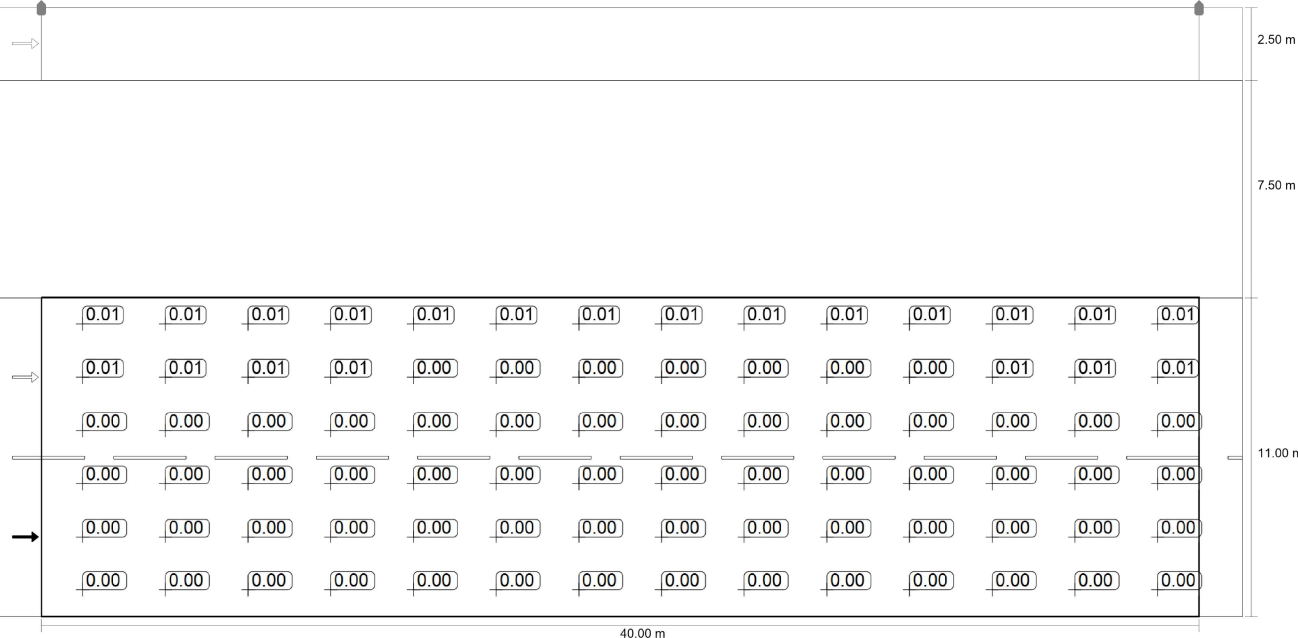
Observer 1: Maintenance value, luminance with dry roadway [cd/m^2] (Value chart)

	L_{av}	L_{min}	L_{max}	$U_o (g_1)$	g_2
Observer 1: Maintenance value, luminance with dry roadway	0.003 cd/m^2	0.001 cd/m^2	0.008 cd/m^2	0.23	0.08

Pärnu-Tori tee (M6)



Observer 1: Luminance with new installation [cd/m²] (Iso-illuminance curves)



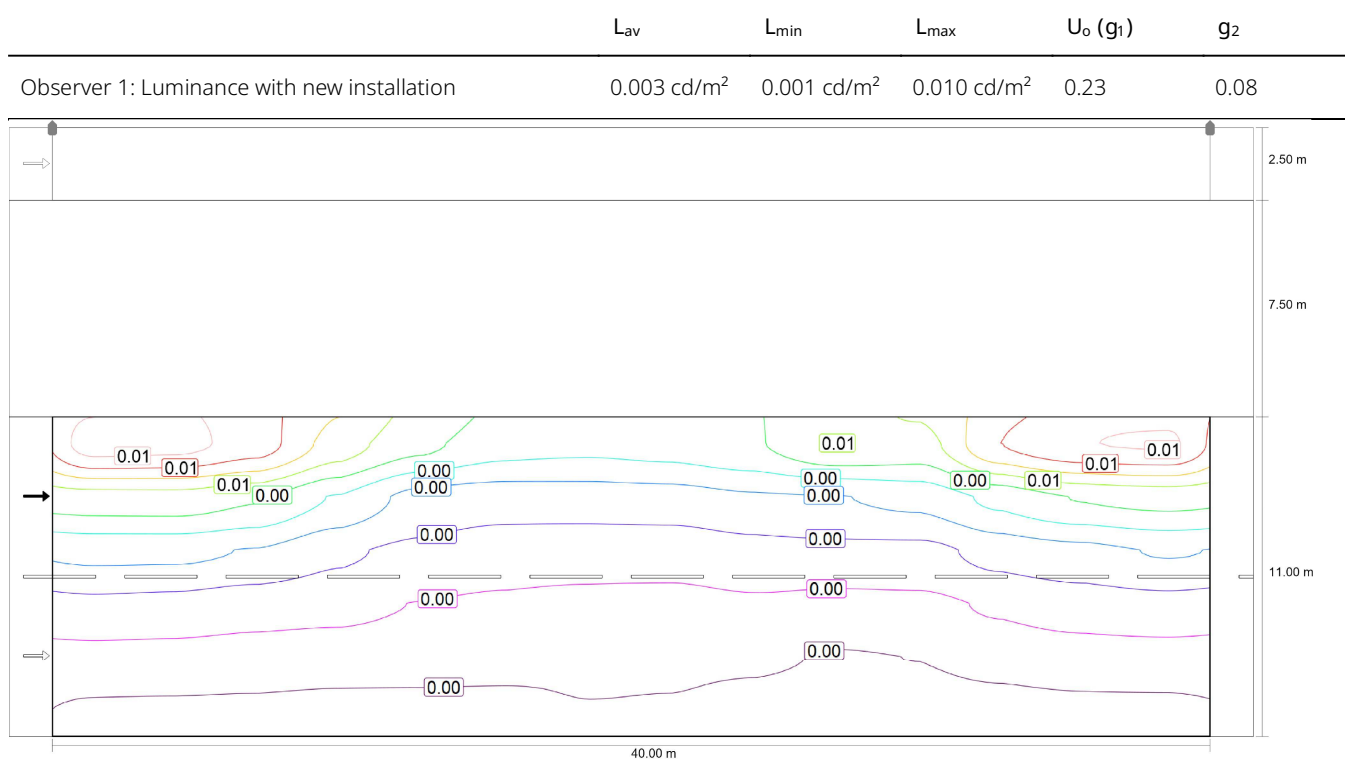
Observer 1: Luminance with new installation [cd/m²] (Value grid)

m	1.429	4.286	7.143	10.000	12.857	15.714	18.571	21.429	24.286	27.143	30.000	32.857	35.714	38.571
10.083	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
8.250	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01

Pärnu-Tori tee (M6)

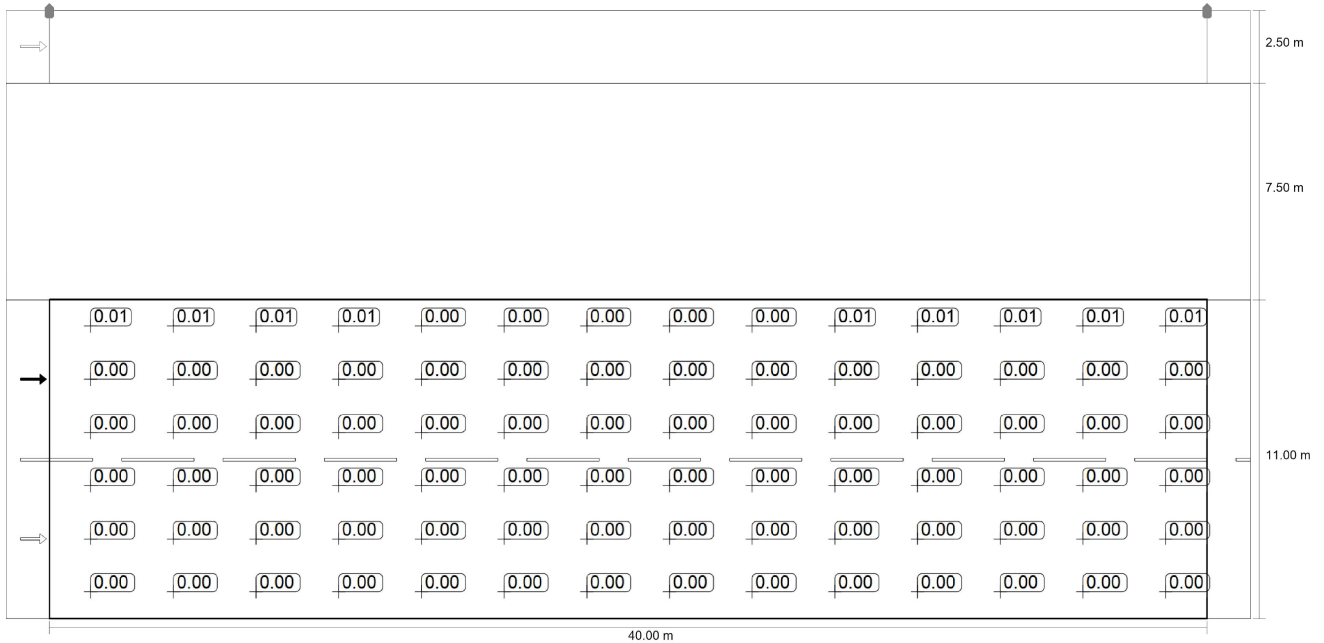
m	1.429	4.286	7.143	10.000	12.857	15.714	18.571	21.429	24.286	27.143	30.000	32.857	35.714	38.571
6.417	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.583	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.750	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.917	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Observer 1: Luminance with new installation [cd/m^2] (Value chart)



Observer 2: Maintenance value, luminance with dry roadway [cd/m^2] (Iso-illuminance curves)

Pärnu-Tori tee (M6)



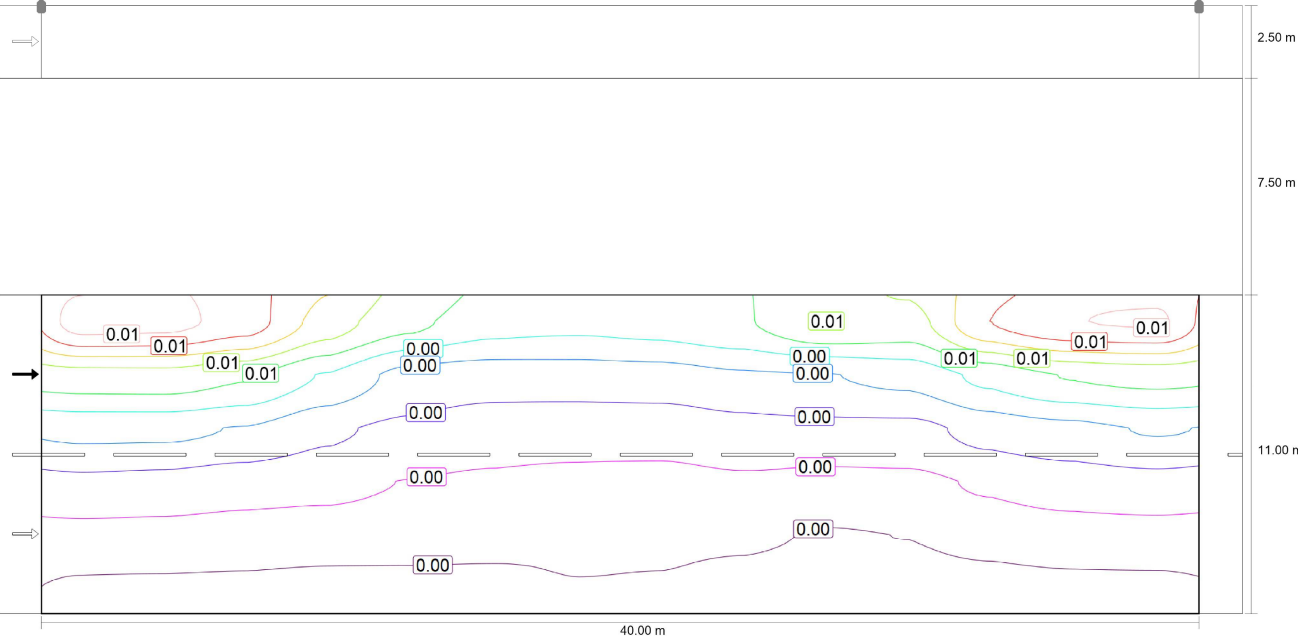
Observer 2: Maintenance value, luminance with dry roadway [cd/m²] (Value grid)

m	1.429	4.286	7.143	10.000	12.857	15.714	18.571	21.429	24.286	27.143	30.000	32.857	35.714	38.571
10.083	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01
8.250	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.417	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.583	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.750	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.917	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

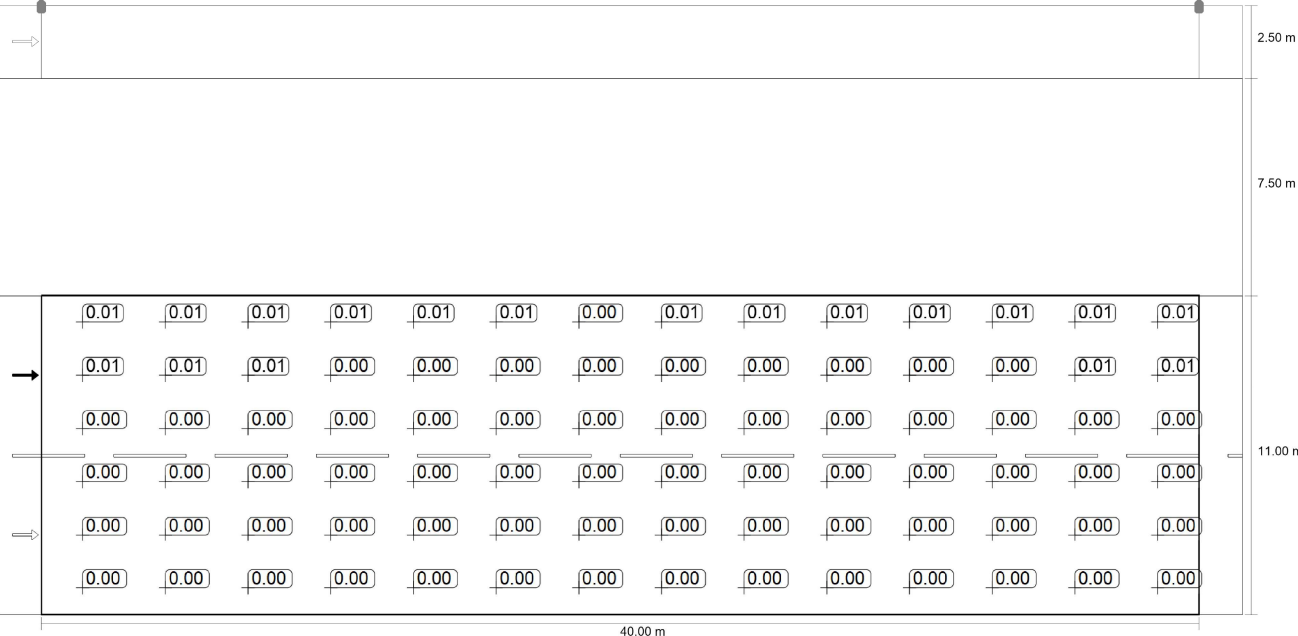
Observer 2: Maintenance value, luminance with dry roadway [cd/m²] (Value chart)

	L_{av}	L_{min}	L_{max}	$U_o (g_1)$	g_2
Observer 2: Maintenance value, luminance with dry roadway	0.003 cd/m²	0.001 cd/m²	0.008 cd/m²	0.22	0.08

Pärnu-Tori tee (M6)



Observer 2: Luminance with new installation [cd/m²] (Iso-illuminance curves)



Observer 2: Luminance with new installation [cd/m²] (Value grid)

m	1.429	4.286	7.143	10.000	12.857	15.714	18.571	21.429	24.286	27.143	30.000	32.857	35.714	38.571
10.083	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
8.250	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01

Pärnu-Tori tee (M6)

m	1.429	4.286	7.143	10.000	12.857	15.714	18.571	21.429	24.286	27.143	30.000	32.857	35.714	38.571
6.417	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4.583	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.750	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.917	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Observer 2: Luminance with new installation [cd/m²] (Value chart)

	L _{av}	L _{min}	L _{max}	U _o (g ₁)	g ₂
Observer 2: Luminance with new installation	0.003 cd/m ²	0.001 cd/m ²	0.010 cd/m ²	0.22	0.08