

Ventspils, Promenādes apgaismojums ar NERI Chara

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

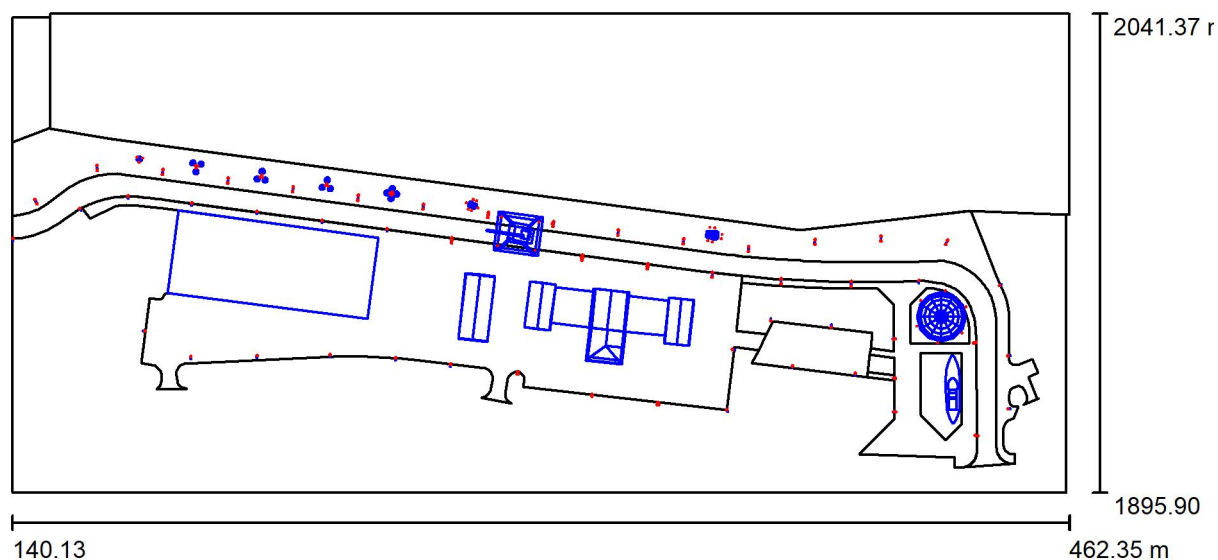
Date: 21.05.2018
Operator: Jānis Škutāns

SIA "Gaismas Stils"

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Ventspils, Promenādes apgaismojums NERI Chara - kopējais 21.05.2018 / Planning data



Maintenance factor: 0.80, ULR (Upward Light Ratio): 11.0%

Scale 1:2304

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	7	IGUZZINI BU91 MAXIWOODY family 28,4W (1.000)	2646	3400	28.4
2	2	IGUZZINI BU93 MAXIWOODY family 28,4W (1.000)	2649	3400	28.4
3	8	IGUZZINI BU99_BZD8 MAXIWOODY family 42.7W (1.000)	3919	5300	42.7
4	3	IGUZZINI BV05_1195 MAXIWOODY family 58W (1.000)	6492	8400	58.0
5	12	IGUZZINI BV87_X203 Light Up Earth 16.5W (1.000)	247	1450	16.5

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Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
6	26	IGUZZINI E143_X203 Light Up Earth 12.1W (1.000)	1112	1450	12.1
7	39	NERI 103 1C0 NLG20 2500lm 3K 103 1C0 NLG20 2500lm 3K (1.000)	2500	2500	23.0
8	8	NERI 103 1C2 NLG17 4500lm 3K 103 1C2 NLG17 4500lm 3K (1.000)	4500	4500	39.0
9	16	NERI 103 1C2 NLG20 4500lm 3K 103 1C2 NLG20 4500lm 3K (1.000)	4499	4500	39.0
10	10	NERI 103 3C3 NLG17 6000lm 4K 103 3C3 NLG17 6000lm 4K (1.000)	5999	6000	49.0
Total:			371987	Total: 418800	3606.8

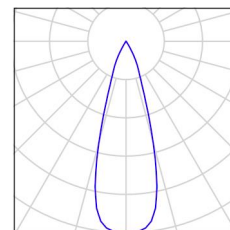
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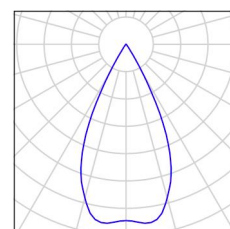
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Ventspils, Promenādes apgaismojums NERI Chara - kopējais 21.05.2018 / Luminaire parts list

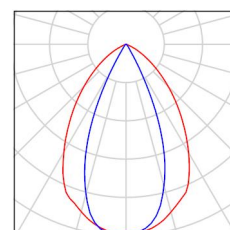
7 Pieces IGUZZINI BU91 MAXIWOODY family 28,4W
Article No.: BU91
Luminous flux (Luminaire): 2646 lm
Luminous flux (Lamps): 3400 lm
Luminaire Wattage: 28.4 W
Luminaire classification according to CIE: 100
CIE flux code: 100 100 100 100 78
Fitting: 1 x LW64 (Correction Factor 1.000).



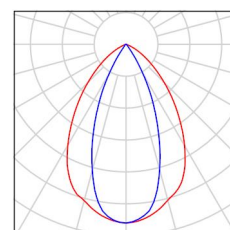
2 Pieces IGUZZINI BU93 MAXIWOODY family 28,4W
Article No.: BU93
Luminous flux (Luminaire): 2649 lm
Luminous flux (Lamps): 3400 lm
Luminaire Wattage: 28.4 W
Luminaire classification according to CIE: 100
CIE flux code: 99 100 100 100 78
Fitting: 1 x LW64 (Correction Factor 1.000).



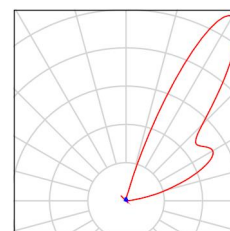
8 Pieces IGUZZINI BU99_BZD8 MAXIWOODY family 42.7W
Article No.: BU99_BZD8
Luminous flux (Luminaire): 3919 lm
Luminous flux (Lamps): 5300 lm
Luminaire Wattage: 42.7 W
Luminaire classification according to CIE: 100
CIE flux code: 84 98 100 100 74
Fitting: 1 x LW66 (Correction Factor 1.000).



3 Pieces IGUZZINI BV05_1195 MAXIWOODY family 58W
Article No.: BV05_1195
Luminous flux (Luminaire): 6492 lm
Luminous flux (Lamps): 8400 lm
Luminaire Wattage: 58.0 W
Luminaire classification according to CIE: 100
CIE flux code: 84 98 100 100 77
Fitting: 1 x LW72 (Correction Factor 1.000).



12 Pieces IGUZZINI BV87_X203 Light Up Earth 16.5W
Article No.: BV87_X203
Luminous flux (Luminaire): 247 lm
Luminous flux (Lamps): 1450 lm
Luminaire Wattage: 16.5 W
Luminaire classification according to CIE: 0
CIE flux code: 00 00 12 00 17
Fitting: 1 x B37A (Correction Factor 1.000).



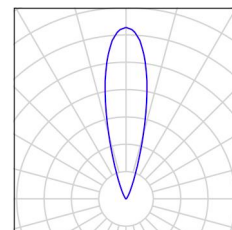
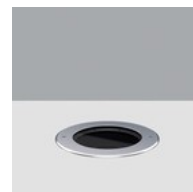
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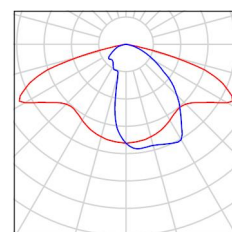
Ventspils, Promenādes apgaismojums NERI Chara - kopējais 21.05.2018 / Luminaire parts list

26 Pieces IGUZZINI E143_X203 Light Up Earth 12.1W
 Article No.: E143_X203
 Luminous flux (Luminaire): 1112 lm
 Luminous flux (Lamps): 1450 lm
 Luminaire Wattage: 12.1 W
 Luminaire classification according to CIE: 0
 CIE flux code: 00 00 12 00 77
 Fitting: 1 x A26K (Correction Factor 1.000).



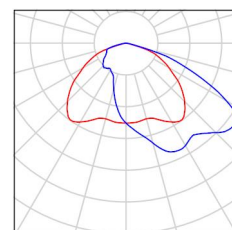
39 Pieces NERI 103 1C0 NLG20 2500lm 3K 103 1C0 NLG20 2500lm 3K
 Article No.: 103 1C0 NLG20 2500lm 3K
 Luminous flux (Luminaire): 2500 lm
 Luminous flux (Lamps): 2500 lm
 Luminaire Wattage: 23.0 W
 Luminaire classification according to CIE: 100
 CIE flux code: 41 74 97 100 100
 Fitting: 1 x 1C0 2500lm (Correction Factor 1.000).

See our luminaire catalog for an image of the luminaire.



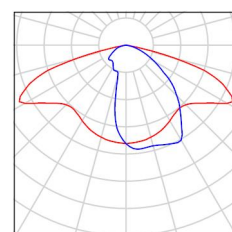
8 Pieces NERI 103 1C2 NLG17 4500lm 3K 103 1C2 NLG17 4500lm 3K
 Article No.: 103 1C2 NLG17 4500lm 3K
 Luminous flux (Luminaire): 4500 lm
 Luminous flux (Lamps): 4500 lm
 Luminaire Wattage: 39.0 W
 Luminaire classification according to CIE: 100
 CIE flux code: 40 75 97 100 100
 Fitting: 1 x 1C2 4500lm (Correction Factor 1.000).

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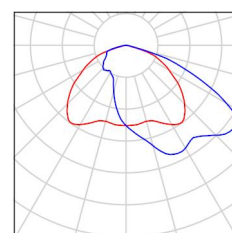
16 Pieces NERI 103 1C2 NLG20 4500lm 3K 103 1C2 NLG20 4500lm 3K
 Article No.: 103 1C2 NLG20 4500lm 3K
 Luminous flux (Luminaire): 4499 lm
 Luminous flux (Lamps): 4500 lm
 Luminaire Wattage: 39.0 W
 Luminaire classification according to CIE: 100
 CIE flux code: 41 74 97 100 100
 Fitting: 1 x 1C2 4500lm (Correction Factor 1.000).

See our luminaire catalog for an image of the luminaire.



10 Pieces NERI 103 3C3 NLG17 6000lm 4K 103 3C3 NLG17 6000lm 4K
 Article No.: 103 3C3 NLG17 6000lm 4K
 Luminous flux (Luminaire): 5999 lm
 Luminous flux (Lamps): 6000 lm
 Luminaire Wattage: 49.0 W
 Luminaire classification according to CIE: 100
 CIE flux code: 40 75 97 100 100
 Fitting: 1 x 3C3 6000lm (Correction Factor 1.000).

See our luminaire catalog for an image of the luminaire.

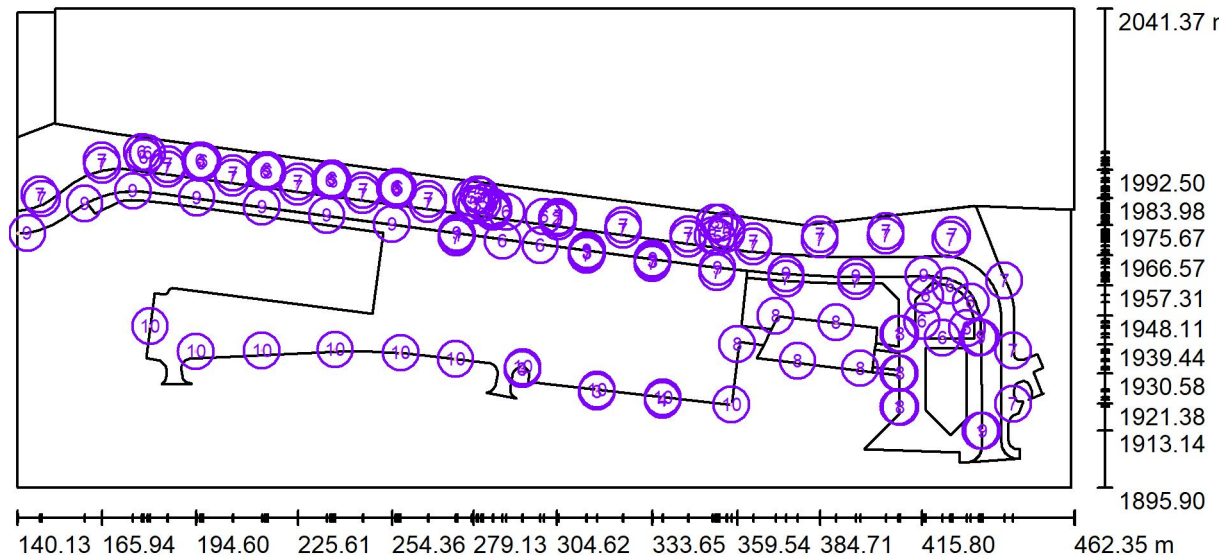


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Ventspils, Promenādes apgaismojums NERI Chara - kopējais 21.05.2018 / Luminaires (layout plan)



Scale 1 : 2304

Luminaire Parts List

No.	Pieces	Designation
1	7	IGUZZINI BU91 MAXIWOODY family 28,4W
2	2	IGUZZINI BU93 MAXIWOODY family 28,4W
3	8	IGUZZINI BU99_BZD8 MAXIWOODY family 42.7W
4	3	IGUZZINI BV05_1195 MAXIWOODY family 58W

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Ventspils, Promenādes apgaismojums NERI Chara - kopējais 21.05.2018 / Luminaires (layout plan)

Luminaire Parts List

No.	Pieces	Designation
5	12	IGUZZINI BV87_X203 Light Up Earth 16.5W
6	26	IGUZZINI E143_X203 Light Up Earth 12.1W
7	39	NERI 103 1C0 NLG20 2500lm 3K 103 1C0 NLG20 2500lm 3K
8	8	NERI 103 1C2 NLG17 4500lm 3K 103 1C2 NLG17 4500lm 3K
9	16	NERI 103 1C2 NLG20 4500lm 3K 103 1C2 NLG20 4500lm 3K
10	10	NERI 103 3C3 NLG17 6000lm 4K 103 3C3 NLG17 6000lm 4K

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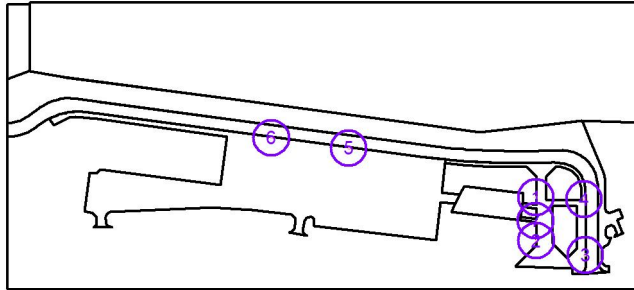
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Ventspils, Promenādes apgaismojums NERI Chara - kopējais 21.05.2018 / Luminaires (coordinates list)

IGUZZINI BU91 MAXIWOODY family 28,4W

2646 lm, 28.4 W, 1 x 1 x LW64 (Correction Factor 1.000).



No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	408.585	1942.569	6.000	-20.0	0.0	-130.0
2	408.645	1920.474	6.000	-20.0	0.0	-80.0
3	433.624	1913.151	6.800	-25.0	0.0	30.0
4	433.072	1941.505	6.800	-25.0	0.0	150.0
5	313.546	1967.360	7.700	30.0	0.0	75.0
6	274.221	1972.616	6.800	30.0	0.0	-75.0
7	408.559	1930.642	6.000	-20.0	0.0	-90.0

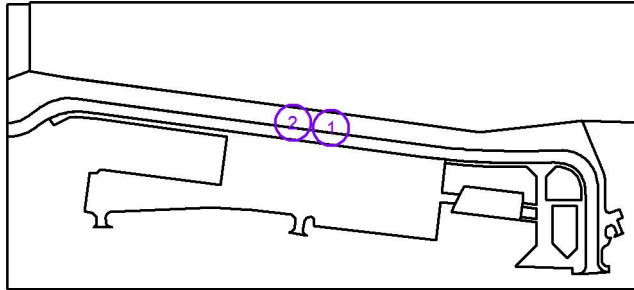
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**Ventspils, Promenādes apgaismojums NERI Chara - kopējais 21.05.2018 / Luminaires
(coordinates list)****IGUZZINI BU93 MAXIWOODY family 28,4W**

2649 lm, 28.4 W, 1 x 1 x LW64 (Correction Factor 1.000).



No.	Position [m]		Z	Rotation [°]		
	X	Y		X	Y	Z
1	304.620	1977.642	4.800	75.0	0.0	100.0
2	285.339	1980.346	4.800	75.0	0.0	-115.0

SIA "Gaismas Stils"

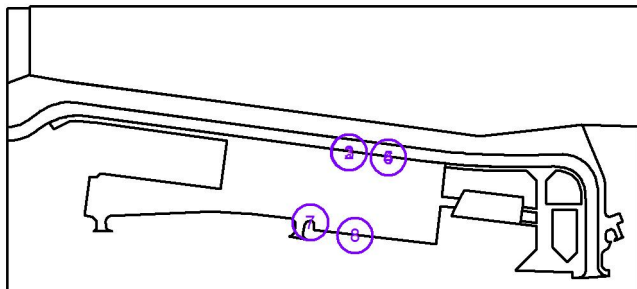
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Ventspils, Promenādes apgaismojums NERI Chara - kopējais 21.05.2018 / Luminaires (coordinates list)

IGUZZINI BU99_BZD8 MAXIWOODY family 42.7W

3919 lm, 42.7 W, 1 x 1 x LW66 (Correction Factor 1.000).



No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	313.725	1967.279	6.800	0.0	90.0	115.0
2	313.832	1967.287	6.800	0.0	-90.0	-135.0
3	313.786	1967.247	7.300	-25.0	0.0	175.0
4	333.671	1964.630	6.800	0.0	90.0	120.0
5	333.778	1964.638	6.800	0.0	-90.0	-125.0
6	333.732	1964.598	7.300	-25.0	0.0	175.0
7	294.109	1931.851	6.000	0.0	90.0	-15.0
8	316.797	1925.094	6.000	-25.0	0.0	-15.0

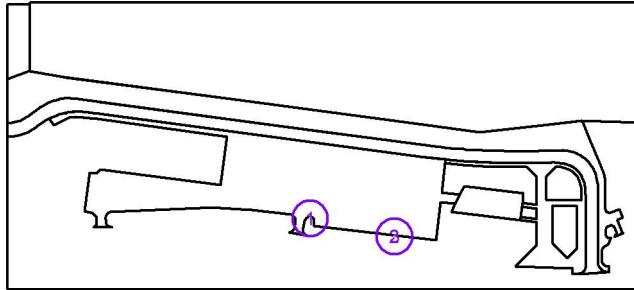
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**Ventspils, Promenādes apgaismojums NERI Chara - kopējais 21.05.2018 / Luminaires
(coordinates list)****IGUZZINI BV05_1195 MAXIWOODY family 58W**

6492 lm, 58.0 W, 1 x 1 x LW72 (Correction Factor 1.000).



No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	294.047	1931.883	6.500	-10.0	0.0	-50.0
2	336.750	1922.555	6.500	-10.0	0.0	25.0
3	336.876	1922.675	6.000	5.0	90.0	-20.0

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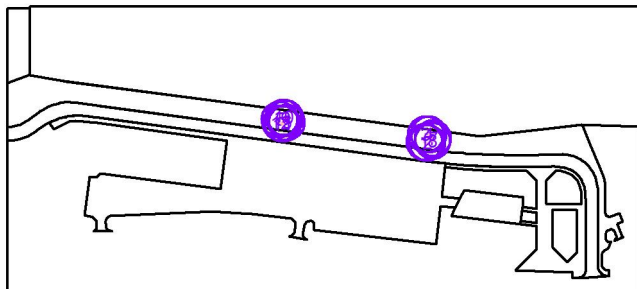
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IGUZZINI BV87_X203 Light Up Earth 16.5W

247 lm, 16.5 W, 1 x 1 x B37A (Correction Factor 1.000).



No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	352.044	1972.488	0.000	0.0	0.0	75.5
2	353.492	1972.114	0.000	0.0	0.0	75.5
3	352.700	1976.491	0.000	0.0	0.0	-95.1
4	354.208	1976.356	0.000	0.0	0.0	-95.1
5	278.552	1984.049	0.000	0.0	0.0	-25.3
6	282.100	1982.434	0.000	0.0	0.0	154.7
7	356.432	1974.359	0.000	0.0	0.0	170.2
8	356.220	1973.126	0.000	0.0	0.0	170.2
9	281.570	1984.547	0.000	0.0	0.0	-114.6
10	280.566	1985.005	0.000	0.0	0.0	-114.6
11	280.138	1981.656	0.000	0.0	0.0	65.4
12	279.134	1982.114	0.000	0.0	0.0	65.4

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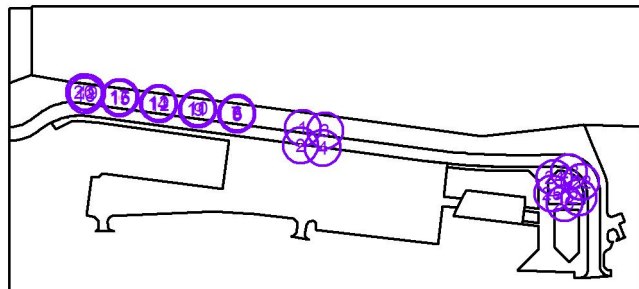
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Ventspils, Promenādes apgaismojums NERI Chara - kopējais 21.05.2018 / Luminaires (coordinates list)

IGUZZINI E143_X203 Light Up Earth 12.1W

1112 lm, 12.1 W, 1 x 1 x A26K (Correction Factor 1.000).



No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	289.206	1979.722	0.050	10.0	0.0	20.0
2	288.044	1970.939	0.050	10.0	0.0	150.0
3	300.620	1978.227	0.050	10.0	0.0	-30.0
4	299.472	1969.488	0.050	10.0	0.0	-140.0
5	256.306	1986.790	0.000	0.0	0.0	-8.9
6	255.890	1987.362	0.000	0.0	0.0	81.1
7	255.318	1986.946	0.000	0.0	0.0	171.1
8	255.734	1986.374	0.000	0.0	0.0	-98.9
9	236.351	1989.047	0.000	0.0	0.0	-38.4
10	236.032	1989.852	0.000	0.0	0.0	81.6
11	235.494	1989.173	0.000	0.0	0.0	-158.4
12	216.503	1991.698	0.000	0.0	0.0	-38.4
13	216.184	1992.503	0.000	0.0	0.0	81.6
14	215.646	1991.824	0.000	0.0	0.0	-158.4
15	196.216	1994.532	0.000	0.0	0.0	-100.7
16	196.781	1995.189	0.000	0.0	0.0	19.3
17	195.930	1995.349	0.000	0.0	0.0	139.3
18	178.753	1996.273	0.000	0.0	0.0	-100.7
19	179.882	1997.587	0.000	0.0	0.0	19.3
20	178.180	1997.908	0.000	0.0	0.0	139.3
21	429.507	1944.433	0.000	0.0	-5.0	-38.4
22	430.670	1952.348	0.000	0.0	-5.0	21.6
23	424.397	1957.313	0.000	0.0	-5.0	81.6
24	416.961	1954.363	0.000	0.0	-5.0	141.6
25	415.798	1946.448	0.000	0.0	-5.0	-158.4
26	422.071	1941.483	0.000	0.0	-5.0	-98.4

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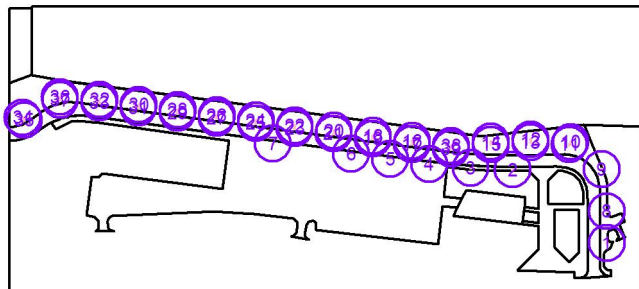
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Ventspils, Promenādes apgaismojums NERI Chara - kopējais 21.05.2018 / Luminaires (coordinates list)

NERI 103 1C0 NLG20 2500lm 3K 103 1C0 NLG20 2500lm 3K

2500 lm, 23.0 W, 1 x 1 x 1C0 2500lm (Correction Factor 1.000).



No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	443.588	1921.380	5.570	0.0	0.0	90.0
2	395.768	1958.562	5.570	0.0	0.0	-180.0
3	374.430	1959.367	5.570	0.0	0.0	-180.0
4	353.379	1961.331	5.570	0.0	0.0	173.5
5	333.648	1963.953	5.570	0.0	0.0	173.5
6	313.679	1966.573	5.570	0.0	0.0	173.5
7	273.962	1971.853	5.570	0.0	0.0	173.5
8	443.551	1937.507	5.570	0.0	0.0	90.0
9	440.913	1958.826	5.570	0.0	0.0	116.7
10	425.151	1972.631	4.425	0.0	0.0	-27.3
11	424.520	1971.292	5.570	0.0	0.0	154.7
12	404.867	1973.875	4.425	0.0	0.0	0.2
13	404.817	1972.385	5.570	0.0	0.0	179.9
14	384.762	1972.836	4.425	0.0	0.0	0.2
15	384.712	1971.346	5.570	0.0	0.0	179.9
16	344.721	1973.006	4.425	0.0	0.0	-4.6
17	344.560	1971.537	5.570	0.0	0.0	175.8
18	324.877	1975.670	4.425	0.0	0.0	-4.6
19	324.715	1974.202	5.570	0.0	0.0	175.8
20	305.075	1978.272	4.425	0.0	0.0	-4.6
21	304.913	1976.804	5.570	0.0	0.0	175.8
22	285.225	1981.040	4.425	0.0	0.0	-4.6
23	285.064	1979.571	5.570	0.0	0.0	175.8
24	265.474	1983.552	4.425	0.0	0.0	-4.6
25	265.312	1982.084	5.570	0.0	0.0	175.8
26	245.602	1986.240	4.425	0.0	0.0	-4.6
27	245.440	1984.772	5.570	0.0	0.0	175.8
28	225.775	1988.857	4.425	0.0	0.0	-4.6

SIA "Gaismas Stils"

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Ventspils, Promenādes apgaismojums NERI Chara - kopējais 21.05.2018 / Luminaires (coordinates list)

No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
29	225.614	1987.388	5.570	0.0	0.0	175.8
30	205.975	1991.488	4.425	0.0	0.0	-4.6
31	205.814	1990.019	5.570	0.0	0.0	175.8
32	186.098	1994.116	4.425	0.0	0.0	-4.6
33	185.937	1992.648	5.570	0.0	0.0	175.8
34	147.038	1984.989	4.425	0.0	0.0	28.8
35	147.743	1983.687	5.570	0.0	0.0	-150.1
36	165.940	1995.346	4.425	0.0	0.0	7.4
37	166.048	1993.863	5.570	0.0	0.0	-173.9
38	364.551	1970.663	4.425	0.0	0.0	-4.6
39	364.390	1969.195	5.570	0.0	0.0	175.8

SIA "Gaismas Stils"

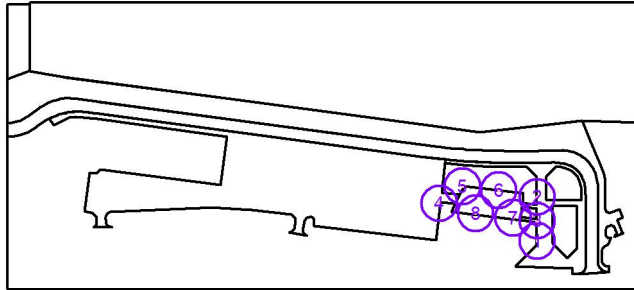
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Ventspils, Promenādes apgaismojums NERI Chara - kopējais 21.05.2018 / Luminaires (coordinates list)

NERI 103 1C2 NLG17 4500lm 3K 103 1C2 NLG17 4500lm 3K

4500 lm, 39.0 W, 1 x 1 x 1C2 4500lm (Correction Factor 1.000).



No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	409.271	1920.409	7.455	0.0	0.0	-90.0
2	409.206	1942.625	7.455	0.0	0.0	-90.0
3	409.184	1930.577	7.455	0.0	0.0	-90.0
4	359.544	1939.441	5.570	0.0	0.0	82.2
5	371.250	1948.108	5.570	0.0	0.0	176.5
6	389.681	1946.133	5.570	0.0	0.0	176.5
7	397.038	1932.143	5.570	0.0	0.0	-4.5
8	377.930	1934.414	5.570	0.0	0.0	-4.5

SIA "Gaismas Stils"

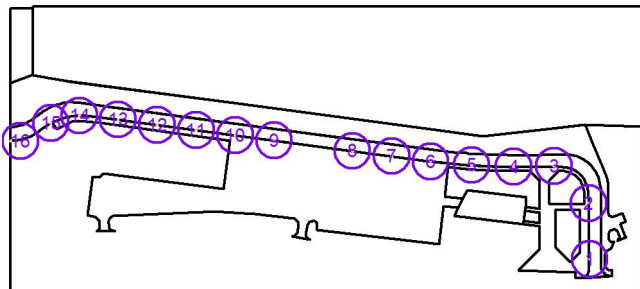
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Ventspils, Promenādes apgaismojums NERI Chara - kopējais 21.05.2018 / Luminaires (coordinates list)

NERI 103 1C2 NLG20 4500lm 3K 103 1C2 NLG20 4500lm 3K

4499 lm, 39.0 W, 1 x 1 x 1C2 4500lm (Correction Factor 1.000).



No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	434.357	1913.141	7.455	0.0	0.0	-90.0
2	433.818	1941.525	7.455	0.0	0.0	-90.0
3	416.319	1960.374	7.455	0.0	0.0	0.0
4	395.761	1960.056	7.455	0.0	0.0	0.0
5	374.424	1960.860	7.455	0.0	0.0	0.0
6	353.536	1962.805	7.455	0.0	0.0	-5.7
7	333.805	1965.427	7.455	0.0	0.0	-5.7
8	313.836	1968.047	7.455	0.0	0.0	-5.7
9	274.119	1973.327	7.455	0.0	0.0	-5.7
10	254.362	1976.046	7.455	0.0	0.0	-7.2
11	234.545	1978.654	7.455	0.0	0.0	-7.2
12	214.718	1981.337	7.455	0.0	0.0	-7.2
13	194.888	1983.978	7.455	0.0	0.0	-7.2
14	175.446	1986.025	7.455	0.0	0.0	0.5
15	160.749	1982.256	7.455	0.0	0.0	31.3
16	140.417	1973.232	7.455	0.0	0.0	1.0

SIA "Gaismas Stils"

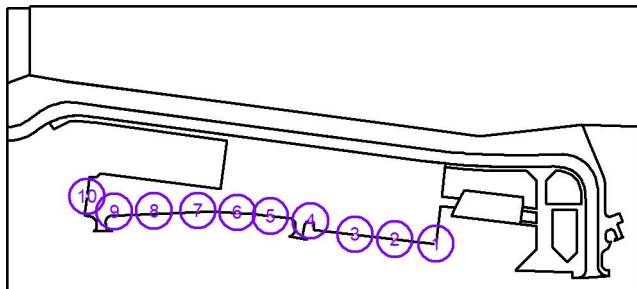
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Ventspils, Promenādes apgaismojums NERI Chara - kopējais 21.05.2018 / Luminaires (coordinates list)

NERI 103 3C3 NLG17 6000lm 4K 103 3C3 NLG17 6000lm 4K

5999 lm, 49.0 W, 1 x 1 x 3C3 6000lm (Correction Factor 1.000).



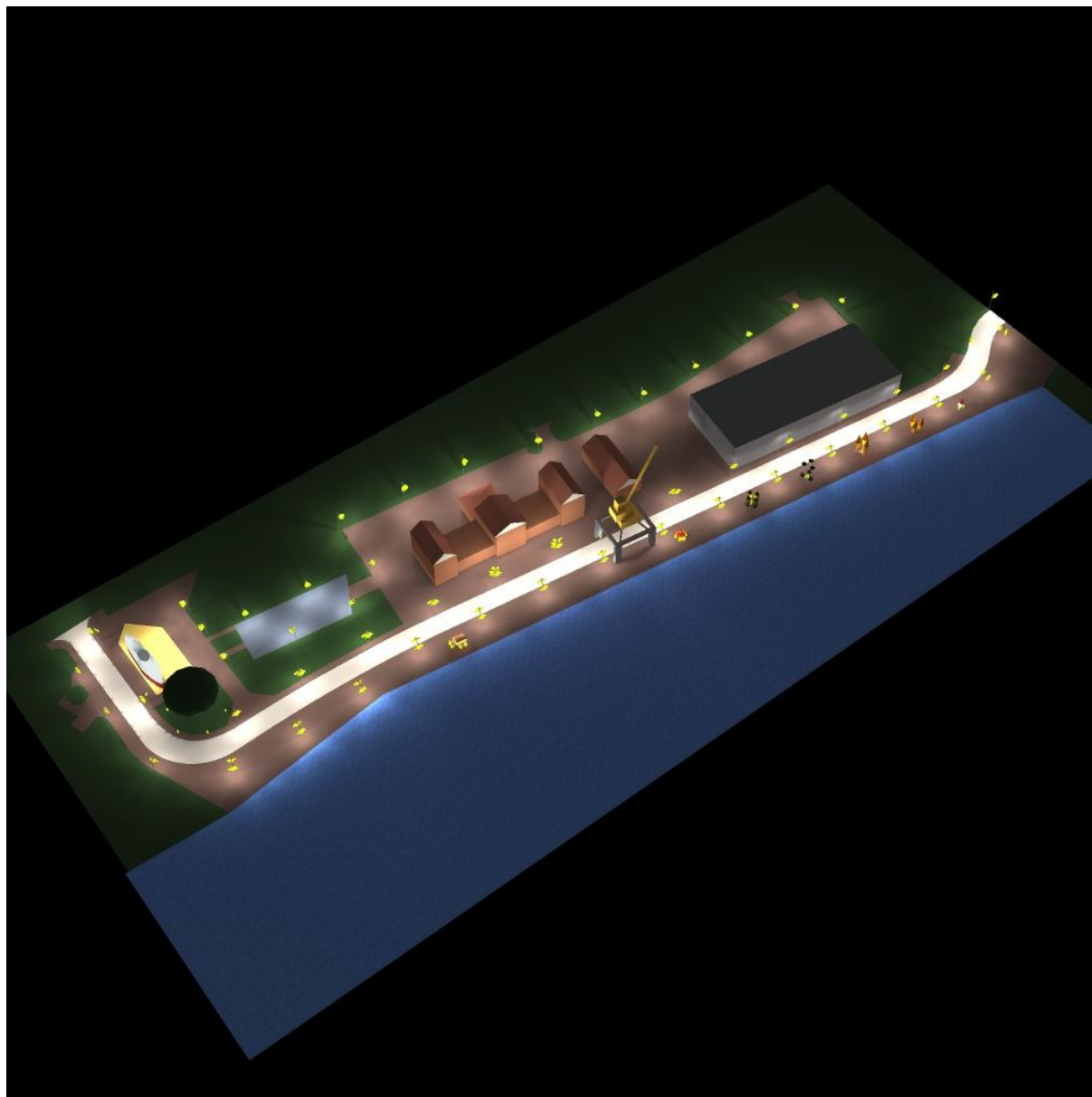
No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	357.807	1921.069	7.455	0.0	0.0	39.0
2	336.917	1923.327	7.455	0.0	0.0	-4.1
3	316.829	1925.682	7.455	0.0	0.0	-4.1
4	294.228	1932.549	7.455	0.0	0.0	-4.1
5	273.753	1934.953	7.455	0.0	0.0	-4.1
6	256.994	1936.838	7.455	0.0	0.0	-4.1
7	237.013	1937.816	7.455	0.0	0.0	0.1
8	214.750	1937.568	7.455	0.0	0.0	0.1
9	194.603	1937.253	7.455	0.0	0.0	0.1
10	180.616	1944.967	7.455	0.0	0.0	-99.6

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**Ventspils, Promenādes apgaismojums NERI Chara - kopējais 21.05.2018 / 3D
Rendering**

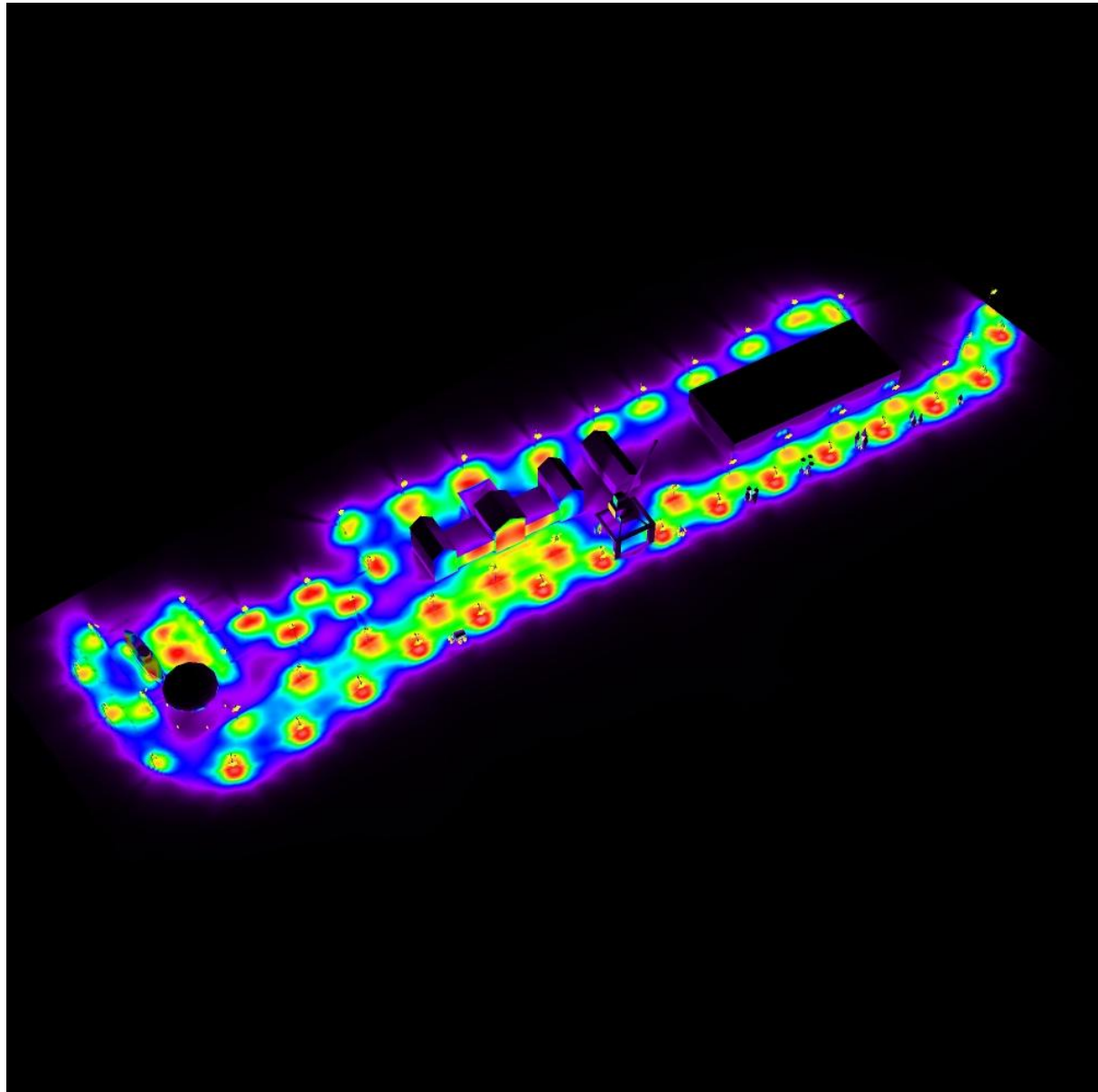


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**Ventspils, Promenādes apgaismojums NERI Chara - kopējais 21.05.2018 / False
Colour Rendering**



0 5 10 15 20 25 30 40 60 lx

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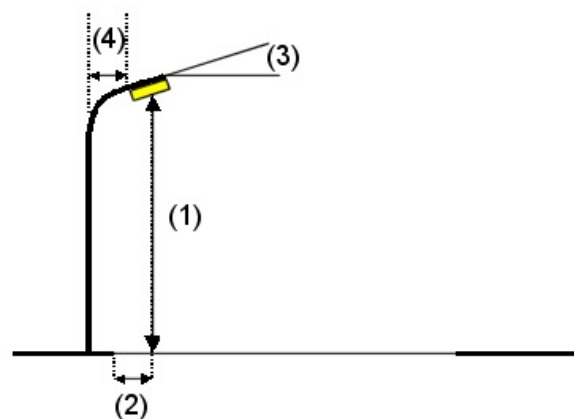
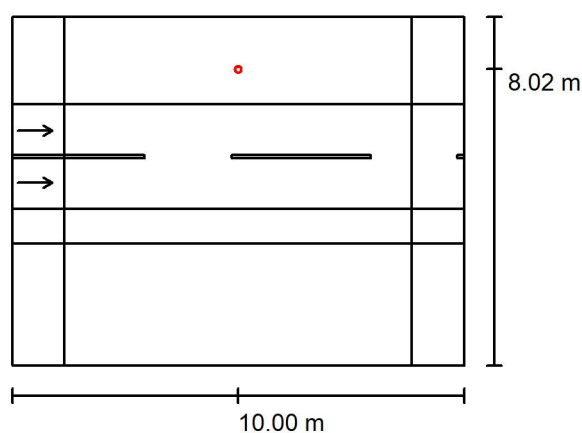
Ventspils, Promenādes apgaismojums - ielas aprēķins 1. posms - 21.05.2018 / Planning data

Street Profile

Sidewalk 1 (Width: 5.000 m)
 Roadway 1 (Width: 6.000 m, Number of lanes: 2, tarmac: R3, q0: 0.070)
 Bicycle Lane 1 (Width: 2.000 m)
 Sidewalk 2 (Width: 7.000 m)

Maintenance factor: 0.80

Luminaire Arrangements



Luminaire:	NERI 103 1C2 NLG20 4500lm 3K 103 1C2 NLG20 4500lm 3K
Luminous flux (Luminaire):	4499 lm
Luminous flux (Lamps):	4500 lm
Luminaire Wattage:	39.0 W
Arrangement:	Single row, top
Pole Distance:	20.000 m
Mounting Height (1):	7.455 m
Height:	7.276 m
Overhang (2):	-2.000 m
Boom Angle (3):	5.0 °
Boom Length (4):	0.000 m

Maximum luminous intensities

at 70°: 455 cd/klm
 at 80°: 95 cd/klm
 at 90°: 2.12 cd/klm

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

No luminous intensities above 95°.

Arrangement complies with luminous intensity class G4.

Arrangement complies with glare index class D.4.

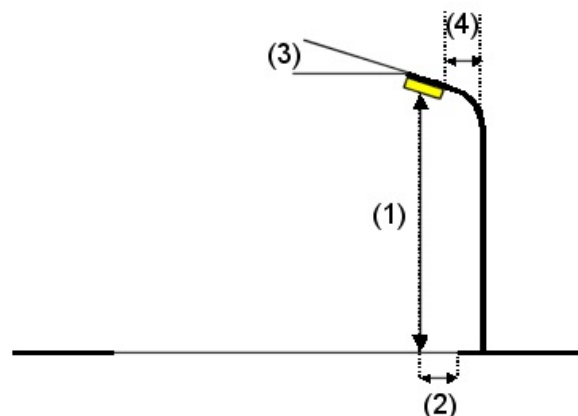
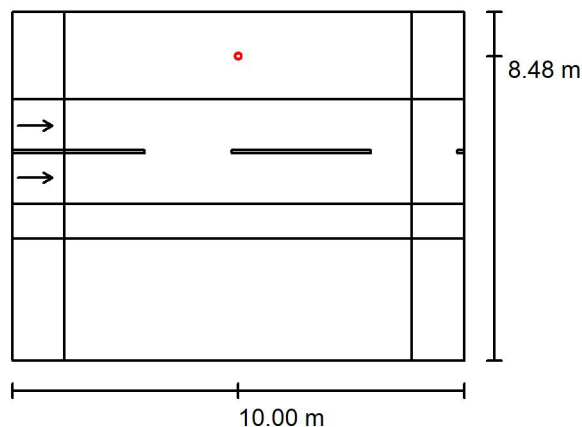
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Ventspils, Promenādes apgaismojums - ielas aprēķins 1. posms - 21.05.2018 / Planning data

Luminaire Arrangements



Luminaire: NERI 103 1C0 NLG20 2500lm 3K 103 1C0 NLG20 2500lm 3K
 Luminous flux (Luminaire): 2500 lm
 Luminous flux (Lamps): 2500 lm
 Luminaire Wattage: 23.0 W
 Arrangement: Single row, bottom
 Pole Distance: 20.000 m
 Mounting Height (1): 5.570 m
 Height: 5.391 m
 Overhang (2): 8.500 m
 Boom Angle (3): 5.0 °
 Boom Length (4): 0.000 m

Maximum luminous intensities

at 70°: 455 cd/klm

at 80°: 95 cd/klm

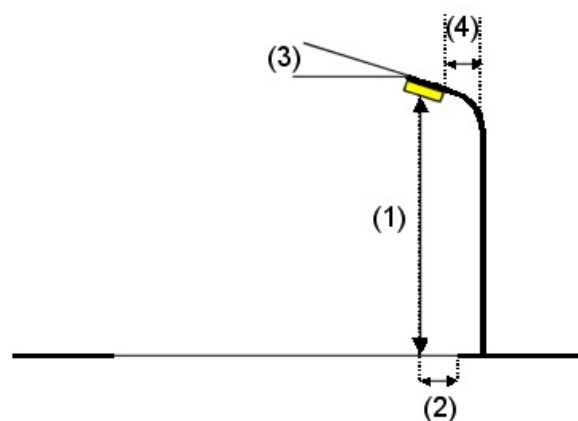
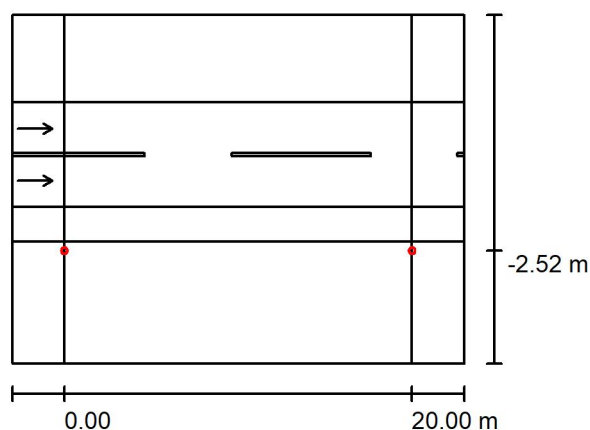
at 90°: 2.12 cd/klm

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

No luminous intensities above 95°.

Arrangement complies with luminous intensity class G4.

Arrangement complies with glare index class D.5.



Luminaire: NERI 103 1C0 NLG20 2500lm 3K 103 1C0 NLG20 2500lm 3K
 Luminous flux (Luminaire): 2500 lm
 Luminous flux (Lamps): 2500 lm
 Luminaire Wattage: 23.0 W
 Arrangement: Single row, bottom
 Pole Distance: 20.000 m
 Mounting Height (1): 5.570 m
 Height: 5.391 m
 Overhang (2): -2.500 m
 Boom Angle (3): 5.0 °
 Boom Length (4): 0.000 m

Maximum luminous intensities

at 70°: 455 cd/klm

at 80°: 95 cd/klm

at 90°: 2.12 cd/klm

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

No luminous intensities above 95°.

Arrangement complies with luminous intensity class G4.

Arrangement complies with glare index class D.5.

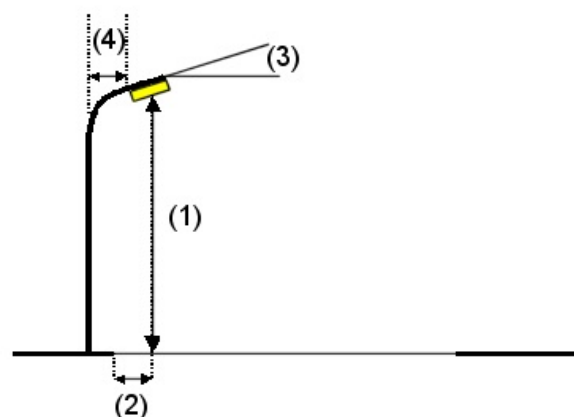
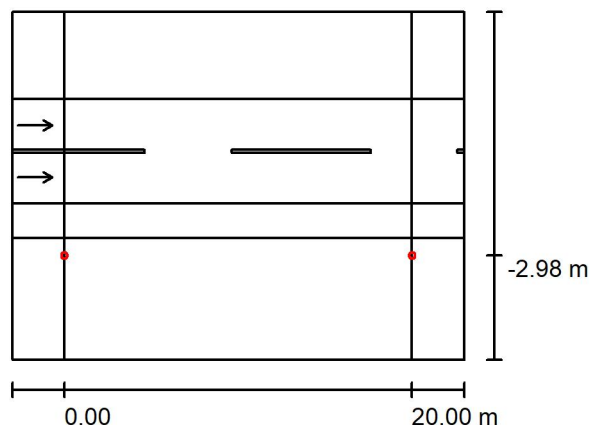
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Ventspils, Promenādes apgaismojums - ielas aprēķins 1. posms - 21.05.2018 / Planning data

Luminaire Arrangements



Luminaire:	NERI 103 1C0 NLG20 2500lm 3K 103 1C0 NLG20 2500lm 3K
Luminous flux (Luminaire):	2500 lm
Luminous flux (Lamps):	2500 lm
Luminaire Wattage:	23.0 W
Arrangement:	Single row, top
Pole Distance:	20.000 m
Mounting Height (1):	4.425 m
Height:	4.246 m
Overhang (2):	9.000 m
Boom Angle (3):	5.0 °
Boom Length (4):	0.000 m

Maximum luminous intensities

at 70°:	455 cd/klm
at 80°:	95 cd/klm
at 90°:	2.12 cd/klm

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

No luminous intensities above 95°.

Arrangement complies with luminous intensity class G4.

Arrangement complies with glare index class D.5.

SIA "Gaismas Stils"

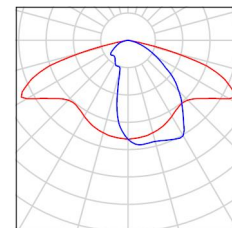
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Ventspils, Promenādes apgaismojums - ielas aprēķins 1. posms - 21.05.2018 / Luminaire parts list

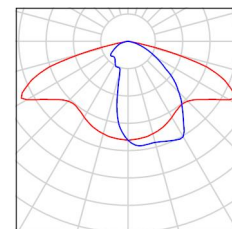
NERI 103 1C0 NLG20 2500lm 3K 103 1C0
NLG20 2500lm 3K
Article No.: 103 1C0 NLG20 2500lm 3K
Luminous flux (Luminaire): 2500 lm
Luminous flux (Lamps): 2500 lm
Luminaire Wattage: 23.0 W
Luminaire classification according to CIE: 100
CIE flux code: 41 74 97 100 100
Fitting: 1 x 1C0 2500lm (Correction Factor 1.000).

See our luminaire
catalog for an image of
the luminaire.



NERI 103 1C2 NLG20 4500lm 3K 103 1C2
NLG20 4500lm 3K
Article No.: 103 1C2 NLG20 4500lm 3K
Luminous flux (Luminaire): 4499 lm
Luminous flux (Lamps): 4500 lm
Luminaire Wattage: 39.0 W
Luminaire classification according to CIE: 100
CIE flux code: 41 74 97 100 100
Fitting: 1 x 1C2 4500lm (Correction Factor 1.000).

See our luminaire
catalog for an image of
the luminaire.

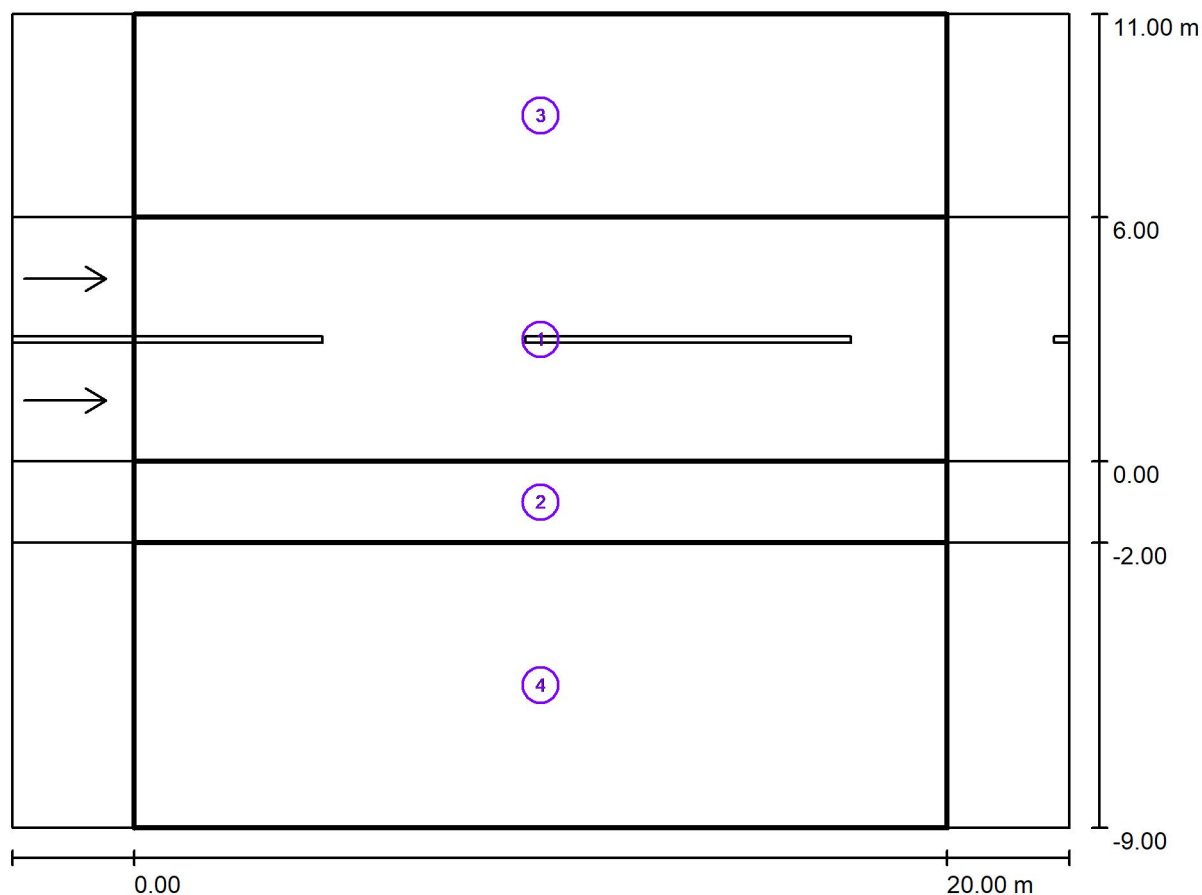


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Ventspils, Promenādes apgaismojums - ielas aprēķins 1. posms - 21.05.2018 / Photometric Results



Maintenance factor: 0.80

Scale 1:186

Calculation Field List

- 1 Valuation Field Roadway 1
 Length: 20.000 m, Width: 6.000 m
 Grid: 10 x 6 Points
 Accompanying Street Elements: Roadway 1.
 tarmac: R3, q0: 0.070
 Selected Lighting Class: ME4a

(All lighting performance requirements are met.)

	L_{av} [cd/m ²]	U0	UI	TI [%]	SR
Calculated values:	1.06	0.78	0.84	6	1.15
Required values according to class:	≥ 0.75	≥ 0.40	≥ 0.60	≤ 15	≥ 0.50
Fulfilled/Not fulfilled:	✓	✓	✓	✓	✓

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Ventspils, Promenādes apgaismojums - ielas aprēķins 1. posms - 21.05.2018 / Photometric Results

Calculation Field List

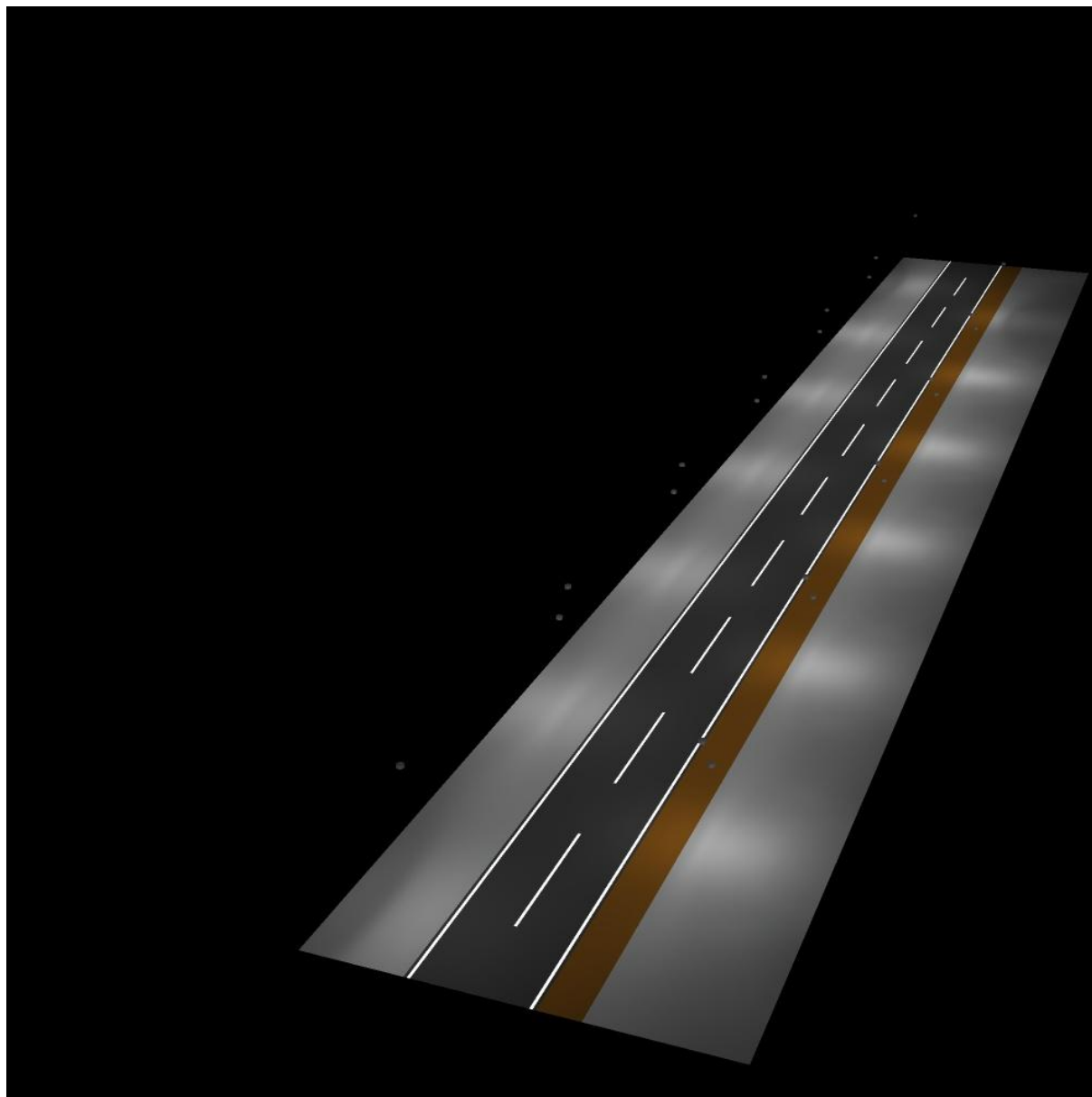
2	Valuation Field Bicycle Lane 1 Length: 20.000 m, Width: 2.000 m Grid: 10 x 3 Points Accompanying Street Elements: Bicycle Lane 1. Selected Lighting Class: S1 (All lighting performance requirements are met.)		
	Calculated values:	E_{av} [lx]	E_{min} [lx]
	Required values according to class:	21.68	15.83
	Fulfilled/Not fulfilled:	≥ 15.00	≥ 5.00
		✓	✓
3	Valuation Field Sidewalk 1 Length: 20.000 m, Width: 5.000 m Grid: 10 x 4 Points Accompanying Street Elements: Sidewalk 1. Selected Lighting Class: CE4 (All lighting performance requirements are met.)		
	Calculated values:	E_{av} [lx]	U0
	Required values according to class:	21.94	0.51
	Fulfilled/Not fulfilled:	≥ 10.00	≥ 0.40
		✓	✓
4	Valuation Field Sidewalk 2 Length: 20.000 m, Width: 7.000 m Grid: 10 x 5 Points Accompanying Street Elements: Sidewalk 2. Selected Lighting Class: S1 (All lighting performance requirements are met.)		
	Calculated values:	E_{av} [lx]	E_{min} [lx]
	Required values according to class:	17.07	5.08
	Fulfilled/Not fulfilled:	≥ 15.00	≥ 5.00
		✓	✓

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**Ventspils, Promenādes apgaismojums - ielas aprēķins 1. posms - 21.05.2018 / 3D
Rendering**



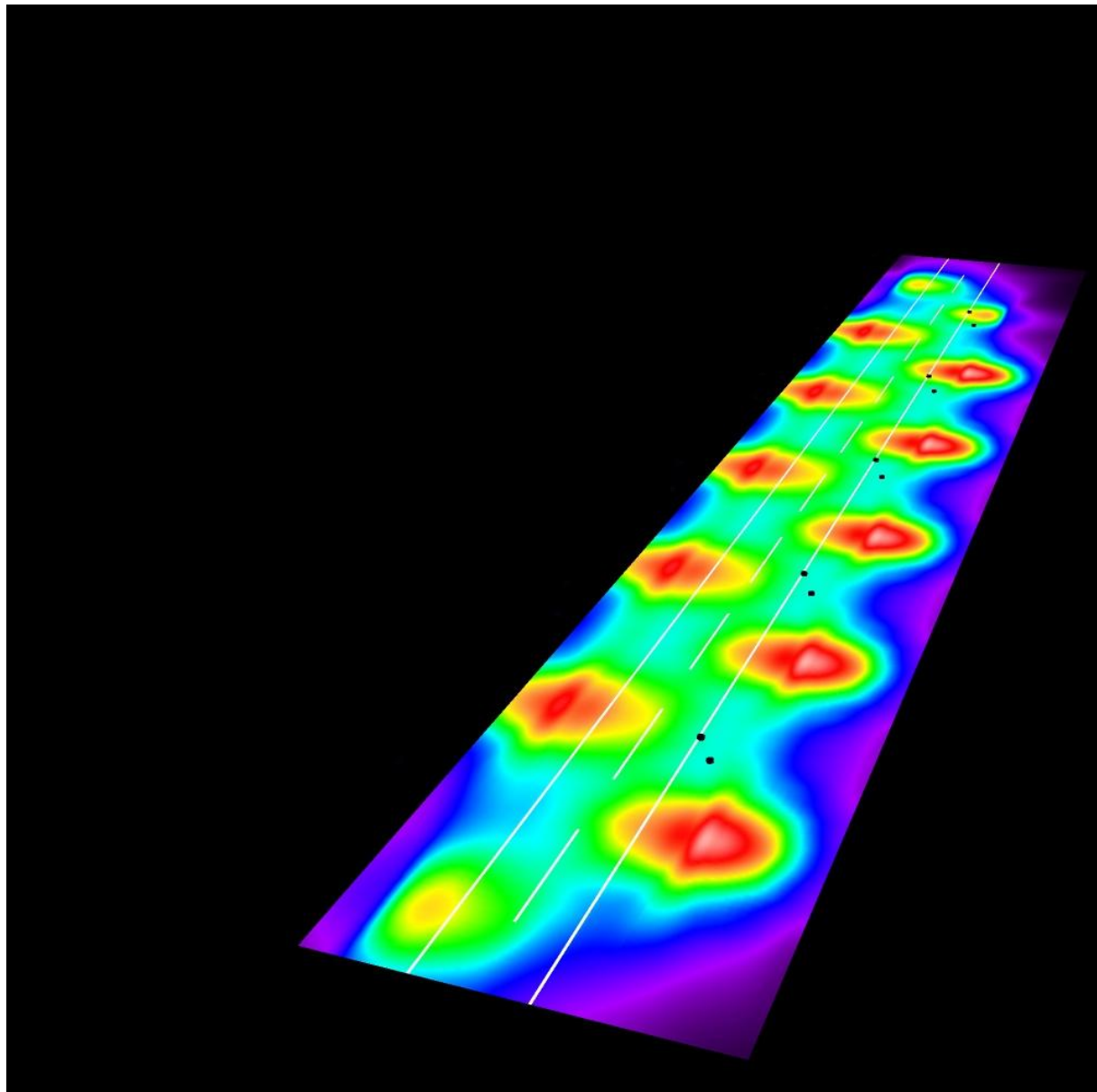


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Ventspils, Promenādes apgaismojums - ielas aprēķins 1. posms - 21.05.2018 / False Colour Rendering



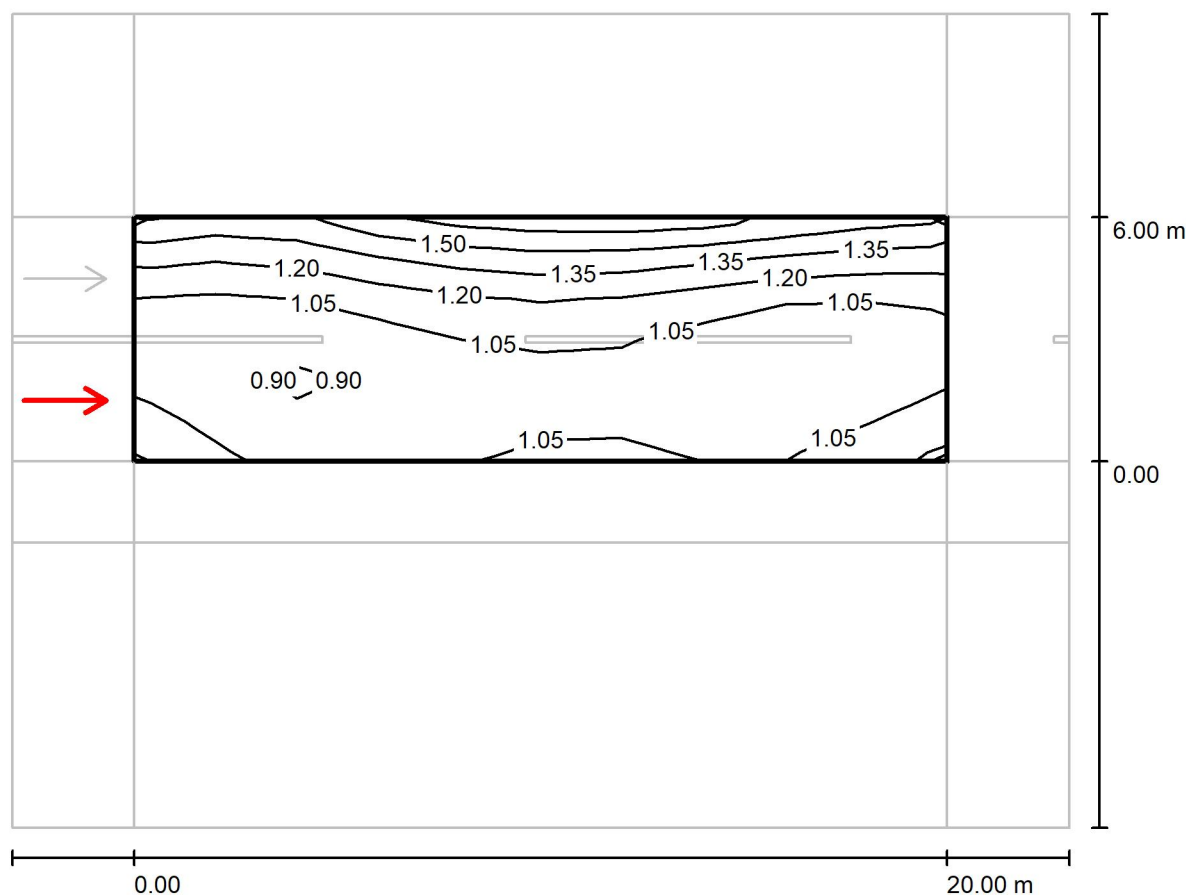
0 5 10 15 20 25 30 40 60 lx

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Ventspils, Promenādes apgaismojums - ielas aprēķins 1. posms - 21.05.2018 / Valuation Field Roadway 1 / Observer 1 / Isolines (L)


Values in Candela/m², Scale 1 : 186

Grid: 10 x 6 Points

Observer Position: (-60.000 m, 1.500 m, 1.500 m)

tarmac: R3, q0: 0.070

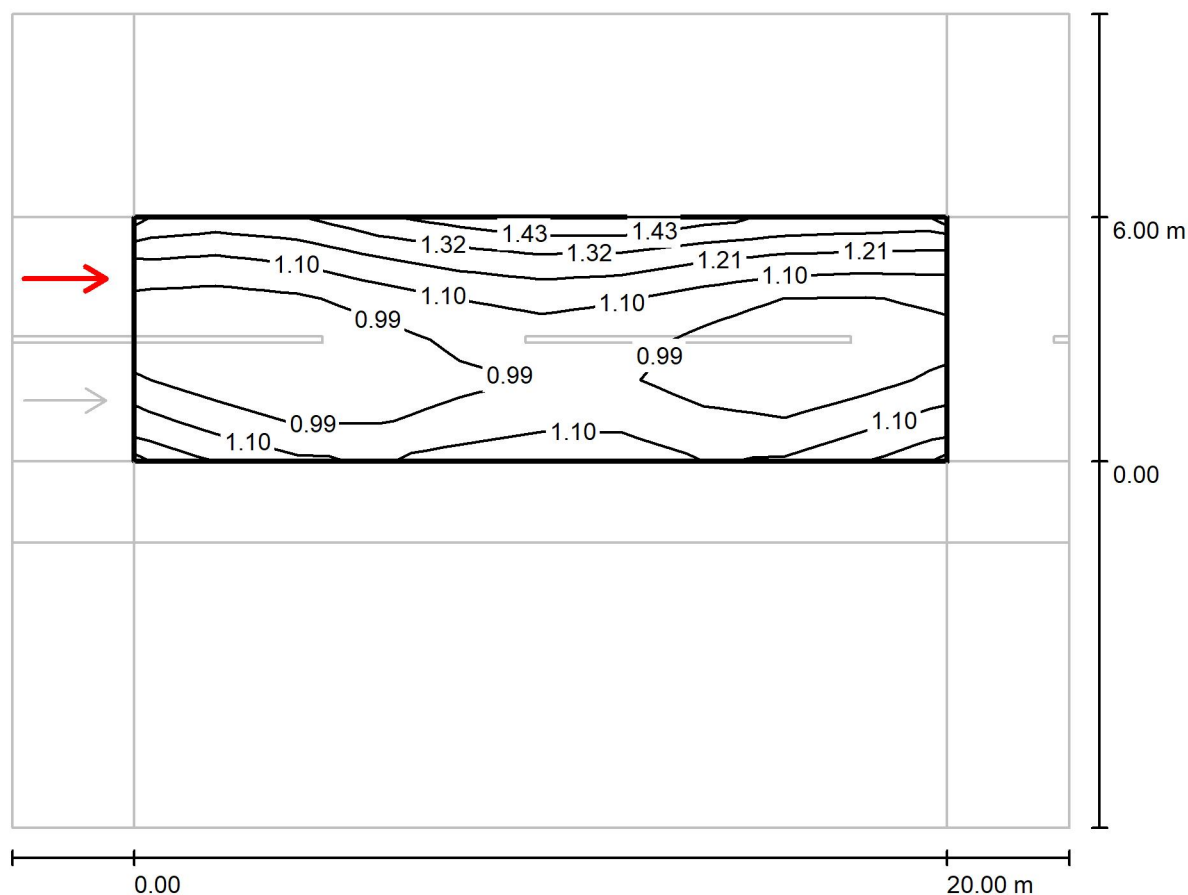
	L_{av} [cd/m ²]	U0	UI	TI [%]
Calculated values:	1.10	0.78	0.84	6
Required values according to class ME4a:	≥ 0.75	≥ 0.40	≥ 0.60	≤ 15
Fulfilled/Not fulfilled:	✓	✓	✓	✓

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Ventspils, Promenādes apgaismojums - ielas aprēķins 1. posms - 21.05.2018 / Valuation Field Roadway 1 / Observer 2 / Isolines (L)


Values in Candela/m², Scale 1 : 186

Grid: 10 x 6 Points

Observer Position: (-60.000 m, 4.500 m, 1.500 m)

tarmac: R3, q0: 0.070

	L_{av} [cd/m ²]	U0	UI	TI [%]
Calculated values:	1.06	0.82	0.84	6
Required values according to class ME4a:	≥ 0.75	≥ 0.40	≥ 0.60	≤ 15
Fulfilled/Not fulfilled:	✓	✓	✓	✓

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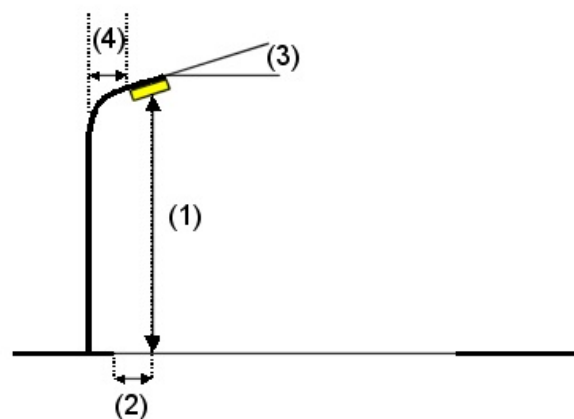
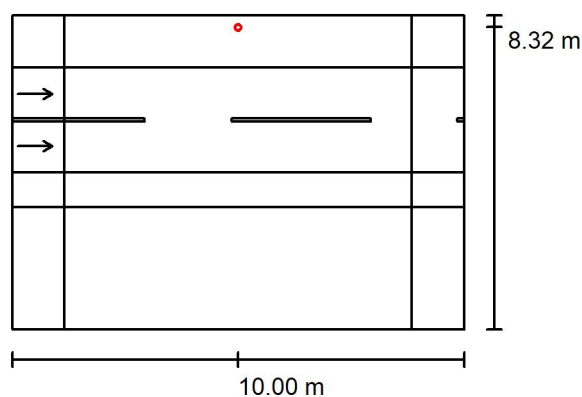
Ventspils, Promenādes apgaismojums - ielas aprēķins 2. posms - 21.05.2018 / Planning data

Street Profile

Sidewalk 1 (Width: 3.000 m)
 Roadway 1 (Width: 6.000 m, Number of lanes: 2, tarmac: R3, q0: 0.070)
 Bicycle Lane 1 (Width: 2.000 m)
 Sidewalk 2 (Width: 7.000 m)

Maintenance factor: 0.90

Luminaire Arrangements



Luminaire:	NERI 103 1C2 NLG20 4500lm 3K 103 1C2 NLG20 4500lm 3K
Luminous flux (Luminaire):	4499 lm
Luminous flux (Lamps):	4500 lm
Luminaire Wattage:	39.0 W
Arrangement:	Single row, top
Pole Distance:	20.000 m
Mounting Height (1):	7.455 m
Height:	7.276 m
Overhang (2):	-2.300 m
Boom Angle (3):	5.0 °
Boom Length (4):	0.000 m

Maximum luminous intensities

at 70°: 455 cd/klm
 at 80°: 95 cd/klm
 at 90°: 2.12 cd/klm

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

No luminous intensities above 95°.

Arrangement complies with luminous intensity class G4.

Arrangement complies with glare index class D.4.

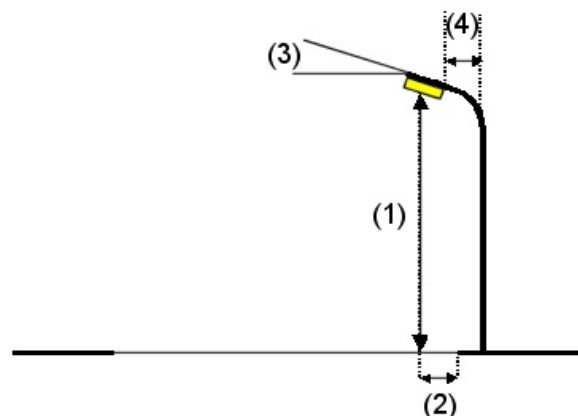
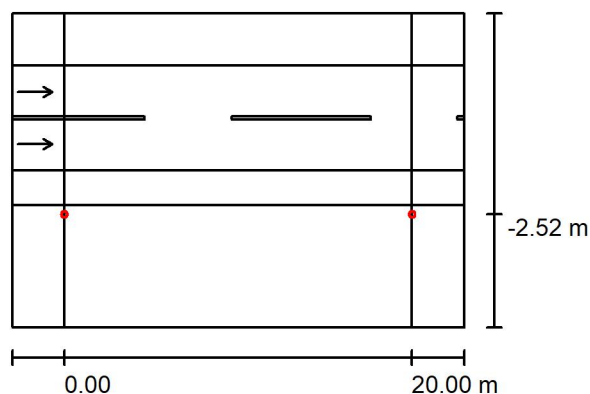
SIA "Gaismas Stils"

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Ventspils, Promenādes apgaismojums - ielas aprēķins 2. posms - 21.05.2018 / Planning data

Luminaire Arrangements



Luminaire:	NERI 103 1C0 NLG20 2500lm 3K 103 1C0 NLG20 2500lm 3K
Luminous flux (Luminaire):	2500 lm
Luminous flux (Lamps):	2500 lm
Luminaire Wattage:	23.0 W
Arrangement:	Single row, bottom
Pole Distance:	20.000 m
Mounting Height (1):	5.570 m
Height:	5.391 m
Overhang (2):	-2.500 m
Boom Angle (3):	5.0 °
Boom Length (4):	0.000 m

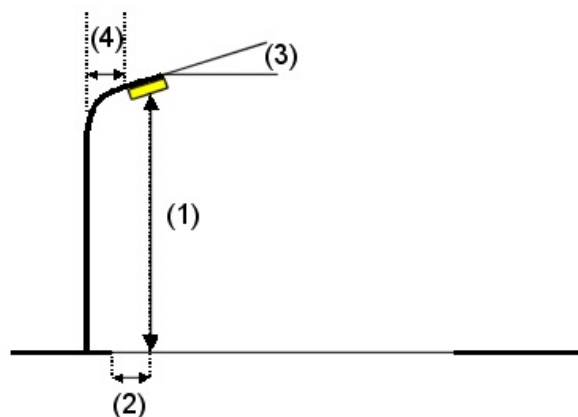
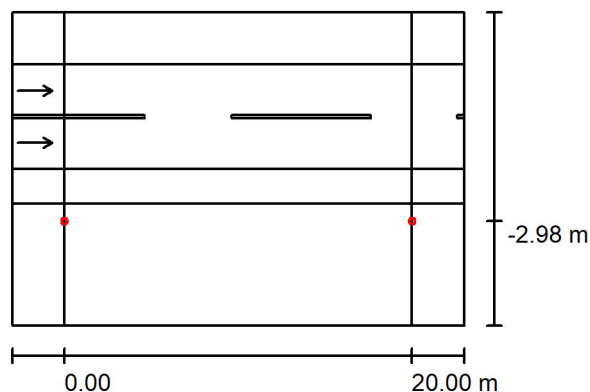
Maximum luminous intensities
 at 70°: 455 cd/klm
 at 80°: 95 cd/klm
 at 90°: 2.12 cd/klm

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

No luminous intensities above 95°.

Arrangement complies with luminous intensity class G4.

Arrangement complies with glare index class D.5.



Luminaire:	NERI 103 1C0 NLG20 2500lm 3K 103 1C0 NLG20 2500lm 3K
Luminous flux (Luminaire):	2500 lm
Luminous flux (Lamps):	2500 lm
Luminaire Wattage:	23.0 W
Arrangement:	Single row, top
Pole Distance:	20.000 m
Mounting Height (1):	4.425 m
Height:	4.246 m
Overhang (2):	9.000 m
Boom Angle (3):	5.0 °
Boom Length (4):	0.000 m

Maximum luminous intensities
 at 70°: 455 cd/klm
 at 80°: 95 cd/klm
 at 90°: 2.12 cd/klm

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

No luminous intensities above 95°.

Arrangement complies with luminous intensity class G4.

Arrangement complies with glare index class D.5.

SIA "Gaismas Stils"

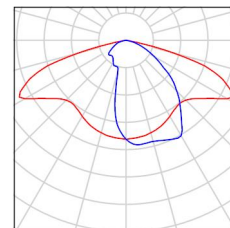
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Ventspils, Promenādes apgaismojums - ielas aprēķins 2. posms - 21.05.2018 / Luminaire parts list

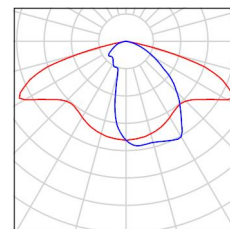
NERI 103 1C0 NLG20 2500lm 3K 103 1C0
NLG20 2500lm 3K
Article No.: 103 1C0 NLG20 2500lm 3K
Luminous flux (Luminaire): 2500 lm
Luminous flux (Lamps): 2500 lm
Luminaire Wattage: 23.0 W
Luminaire classification according to CIE: 100
CIE flux code: 41 74 97 100 100
Fitting: 1 x 1C0 2500lm (Correction Factor 1.000).

See our luminaire
catalog for an image of
the luminaire.



NERI 103 1C2 NLG20 4500lm 3K 103 1C2
NLG20 4500lm 3K
Article No.: 103 1C2 NLG20 4500lm 3K
Luminous flux (Luminaire): 4499 lm
Luminous flux (Lamps): 4500 lm
Luminaire Wattage: 39.0 W
Luminaire classification according to CIE: 100
CIE flux code: 41 74 97 100 100
Fitting: 1 x 1C2 4500lm (Correction Factor 1.000).

See our luminaire
catalog for an image of
the luminaire.

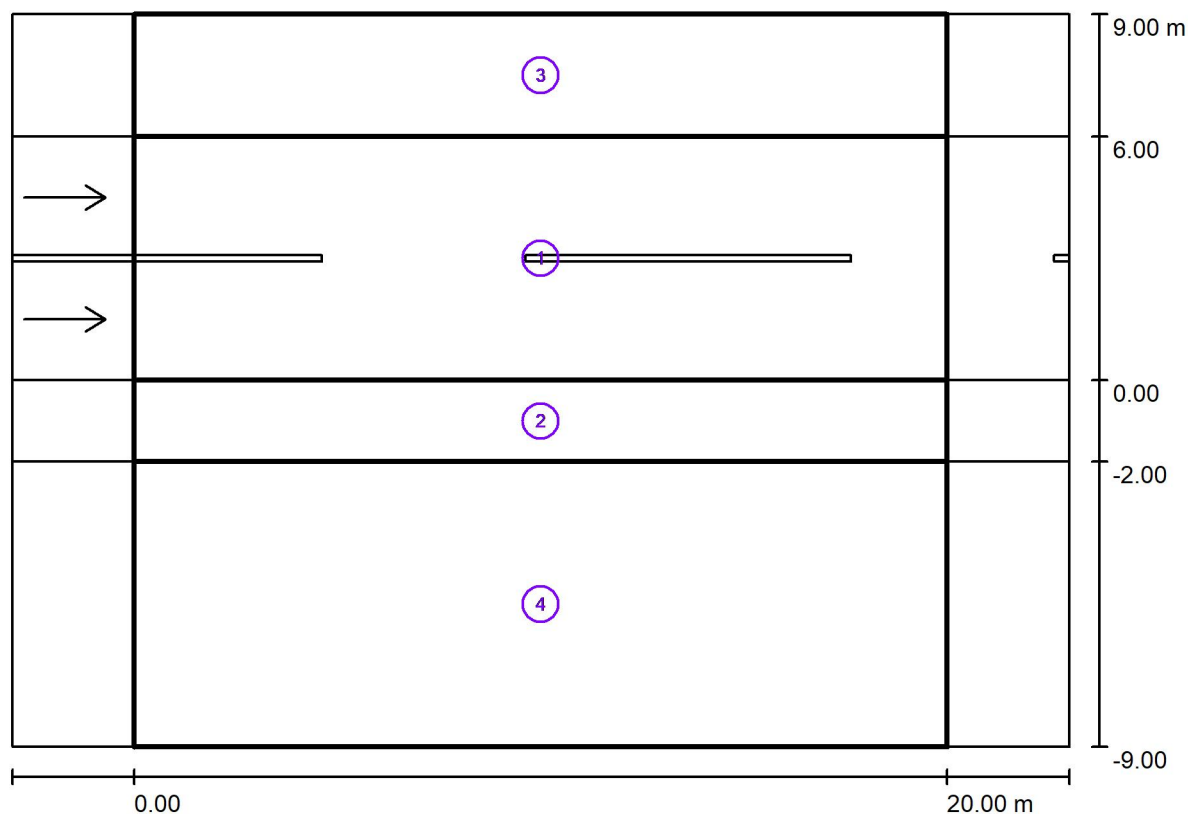


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Ventspils, Promenādes apgaismojums - ielas aprēķins 2. posms - 21.05.2018 / Photometric Results



Maintenance factor: 0.90

Scale 1:186

Calculation Field List

- 1 Valuation Field Roadway 1
 Length: 20.000 m, Width: 6.000 m
 Grid: 10 x 6 Points
 Accompanying Street Elements: Roadway 1.
 tarmac: R3, q0: 0.070
 Selected Lighting Class: ME4a

(All lighting performance requirements are met.)

	L_{av} [cd/m ²]	U0	UI	TI [%]	SR
Calculated values:	1.08	0.82	0.83	7	1.07
Required values according to class:	≥ 0.75	≥ 0.40	≥ 0.60	≤ 15	≥ 0.50
Fulfilled/Not fulfilled:	✓	✓	✓	✓	✓

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Ventspils, Promenādes apgaismojums - ielas aprēķins 2. posms - 21.05.2018 / Photometric Results

Calculation Field List

2 Valuation Field Bicycle Lane 1

Length: 20.000 m, Width: 2.000 m

Grid: 10 x 3 Points

Accompanying Street Elements: Bicycle Lane 1.

Selected Lighting Class: S1 (Not all lighting performance requirements are met.)

	E_{av} [lx]	E_{min} [lx]
Calculated values:	23.65	16.87
Required values according to class:	≥ 15.00	≥ 5.00
Fulfilled/Not fulfilled:	 1	

¹ Notice: To provide for uniformity, the actual value of the maintained average illuminance may not exceed 1.5 times the minimum value indicated for the class.

3 Valuation Field Sidewalk 1

Length: 20.000 m, Width: 3.000 m

Grid: 10 x 3 Points

Accompanying Street Elements: Sidewalk 1.

Selected Lighting Class: CE5 (All lighting performance requirements are met.)

	E_{av} [lx]	U0
Calculated values:	19.61	0.61
Required values according to class:	≥ 7.50	≥ 0.40
Fulfilled/Not fulfilled:		

4 Valuation Field Sidewalk 2

Length: 20.000 m, Width: 7.000 m

Grid: 10 x 5 Points

Accompanying Street Elements: Sidewalk 2.

Selected Lighting Class: S1 (All lighting performance requirements are met.)

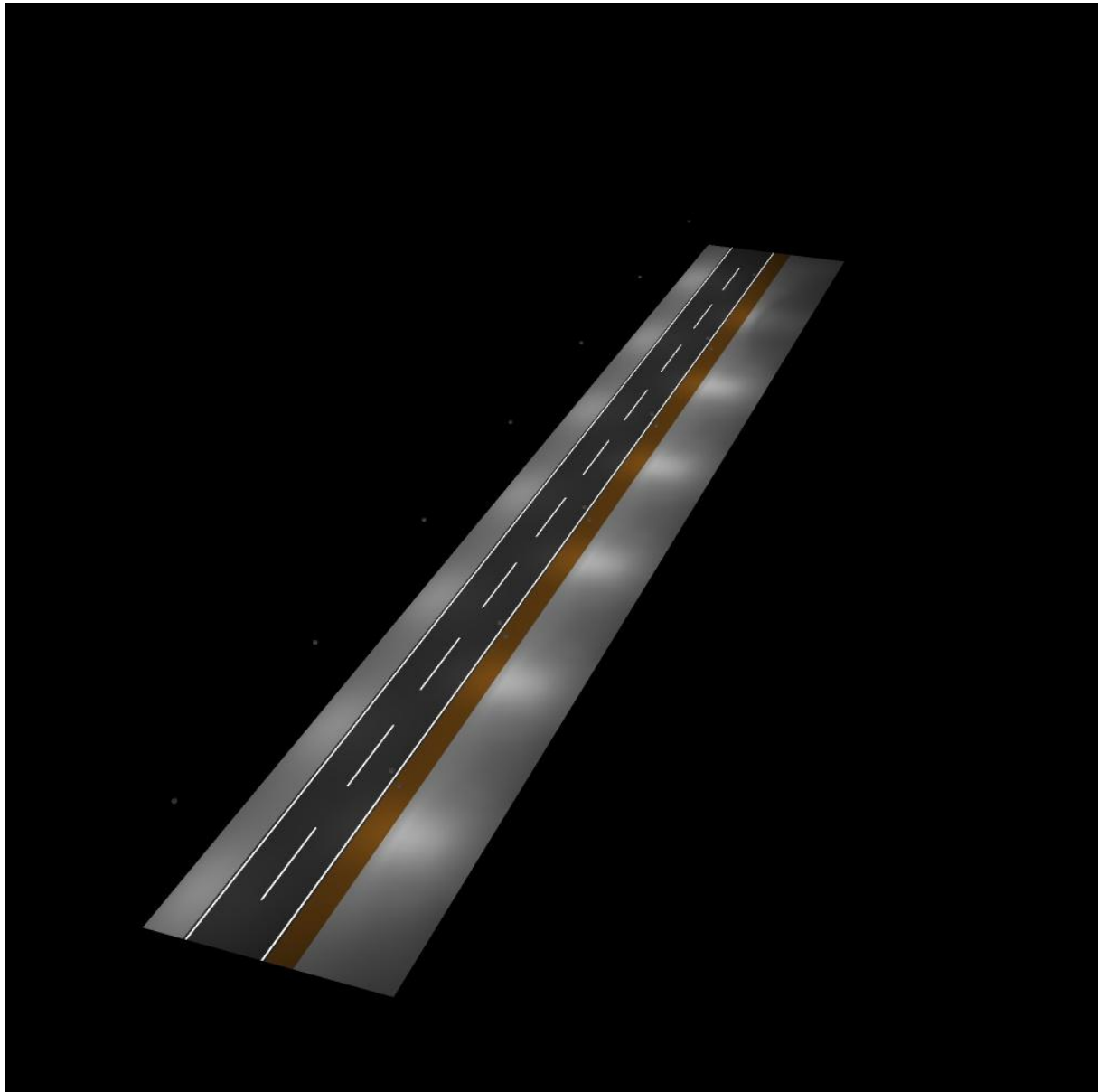
	E_{av} [lx]	E_{min} [lx]
Calculated values:	18.94	5.60
Required values according to class:	≥ 15.00	≥ 5.00
Fulfilled/Not fulfilled:		

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**Ventspils, Promenādes apgaismojums - ielas aprēķins 2. posms - 21.05.2018 / 3D
Rendering**



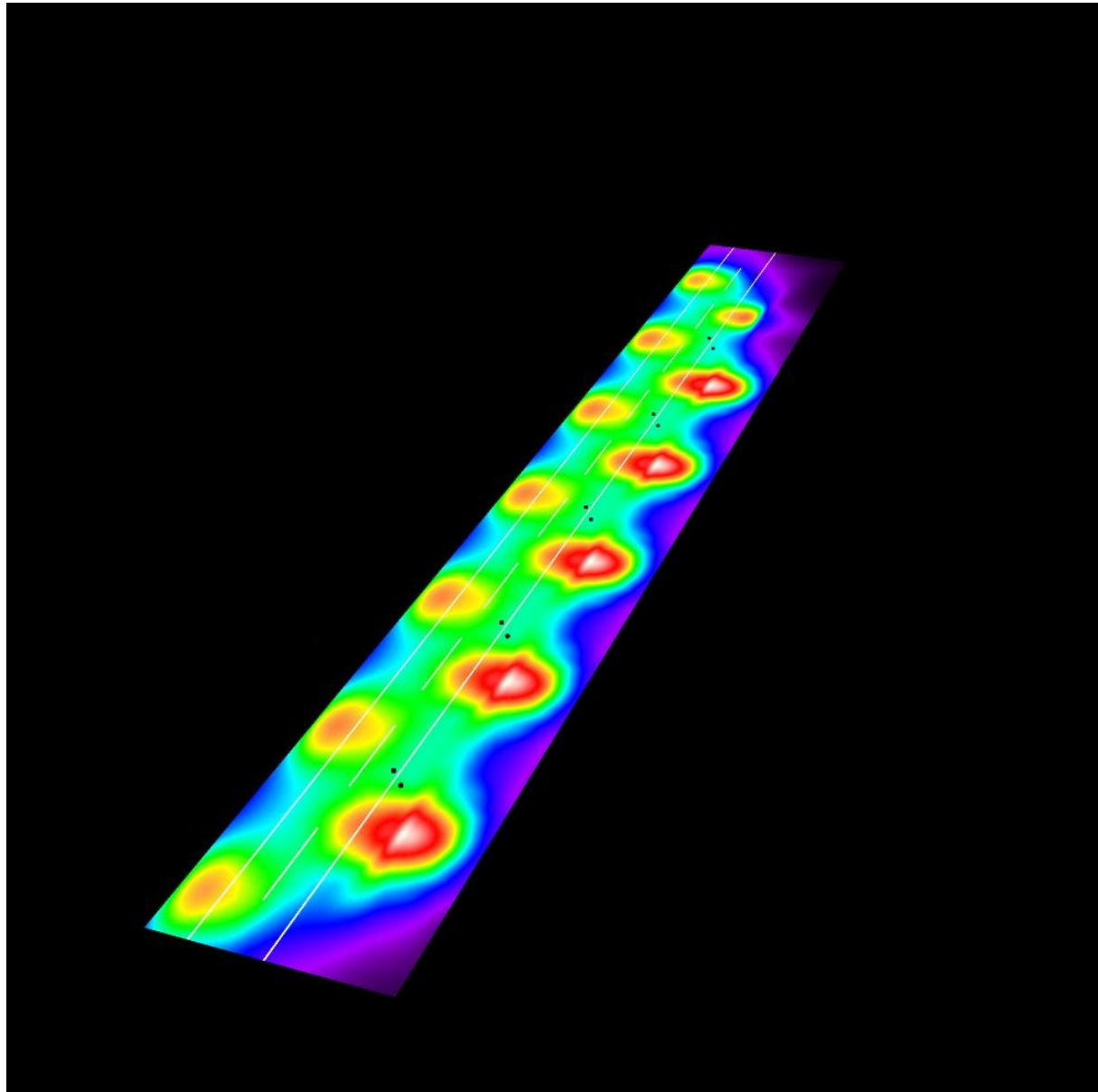


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Ventspils, Promenādes apgaismojums - ielas aprēķins 2. posms - 21.05.2018 / False Colour Rendering



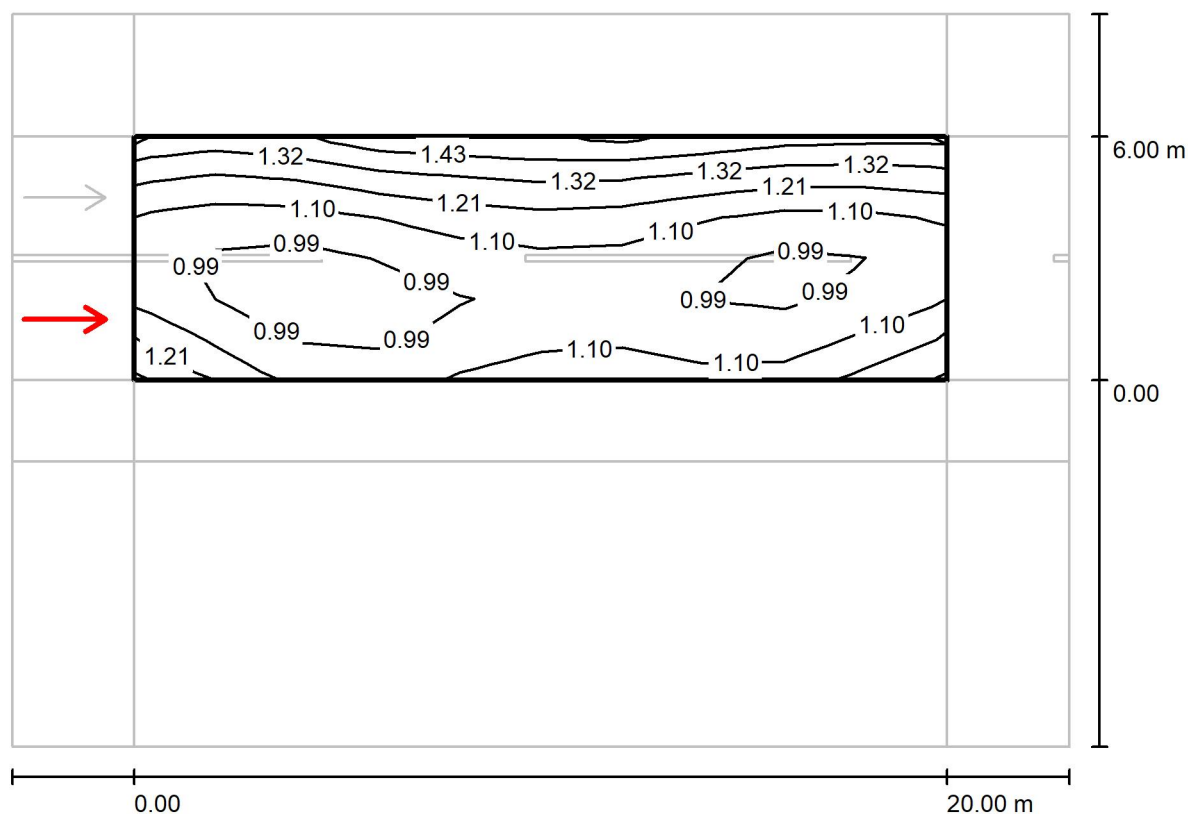
0 5 10 15 20 25 30 40 60 lx

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Ventspils, Promenādes apgaismojums - ielas aprēķins 2. posms - 21.05.2018 /
Valuation Field Roadway 1 / Observer 1 / Isolines (L)

Values in Candela/m², Scale 1 : 186

Grid: 10 x 6 Points

Observer Position: (-60.000 m, 1.500 m, 1.500 m)

tarmac: R3, q0: 0.070

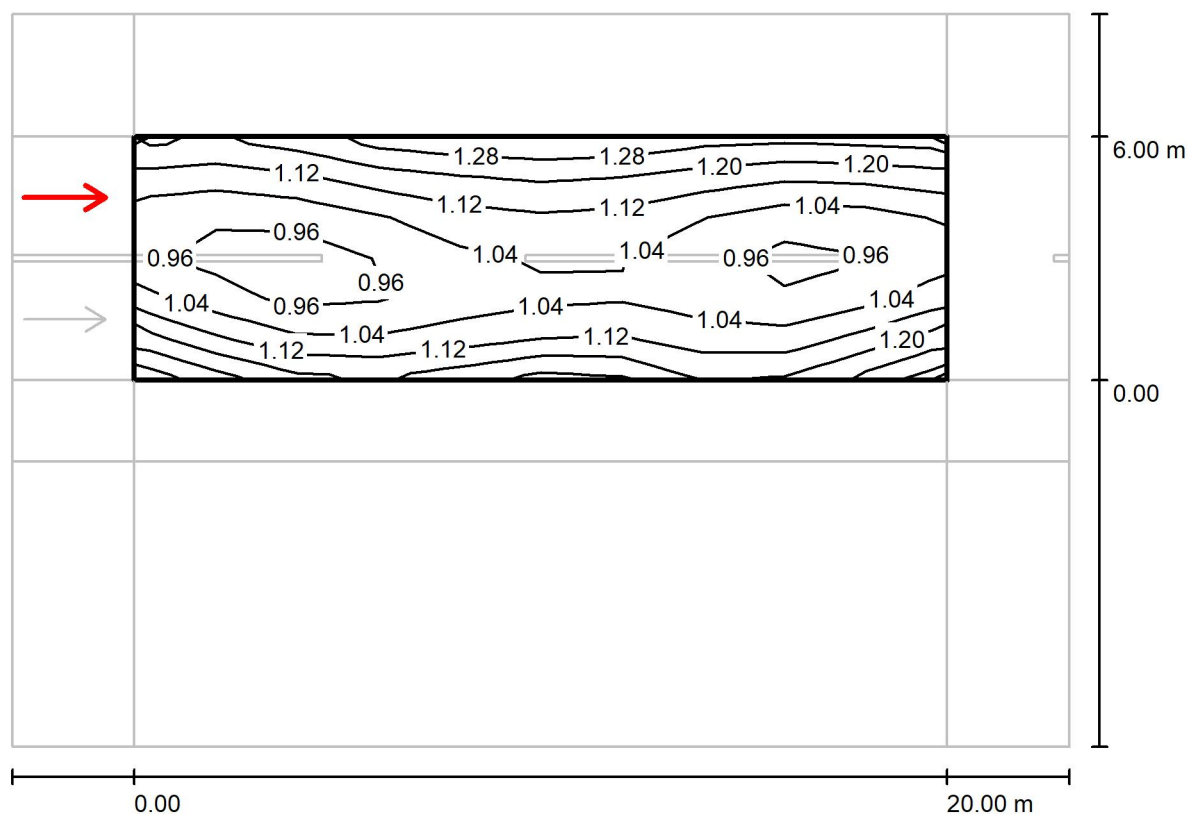
	L_{av} [cd/m ²]	U0	UI	TI [%]
Calculated values:	1.11	0.82	0.83	7
Required values according to class ME4a:	≥ 0.75	≥ 0.40	≥ 0.60	≤ 15
Fulfilled/Not fulfilled:	✓	✓	✓	✓

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Ventspils, Promenādes apgaismojums - ielas aprēķins 2. posms - 21.05.2018 /
Valuation Field Roadway 1 / Observer 2 / Isolines (L)



Values in Candela/m², Scale 1 : 186

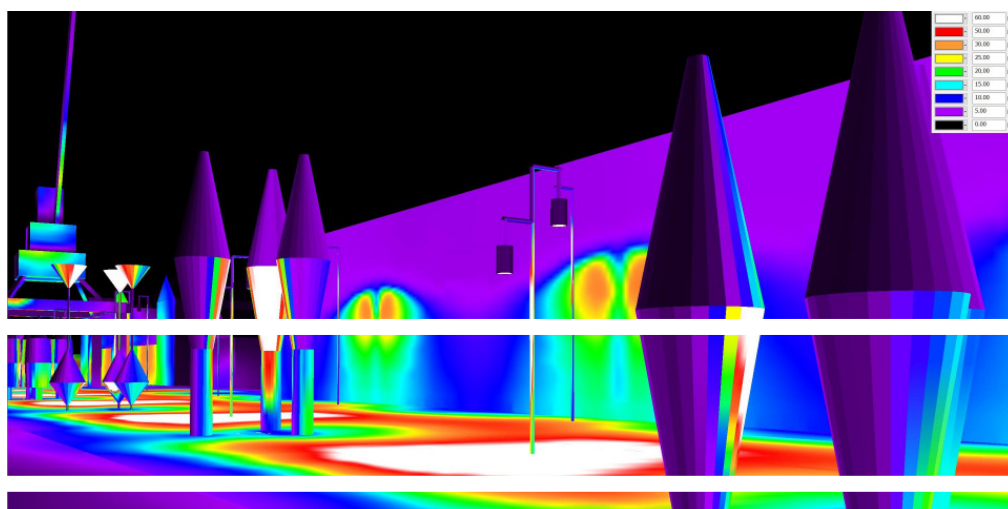
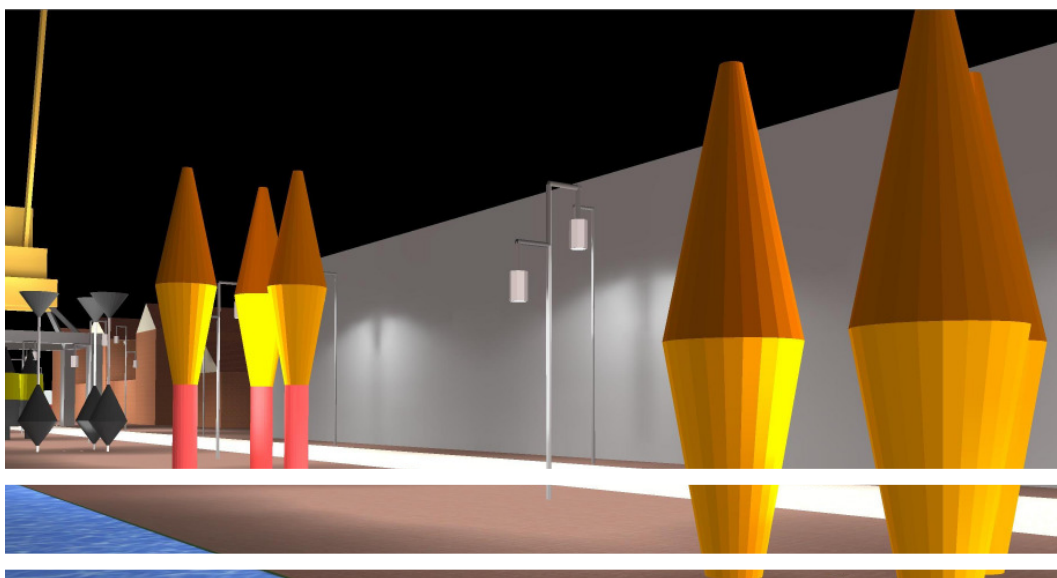
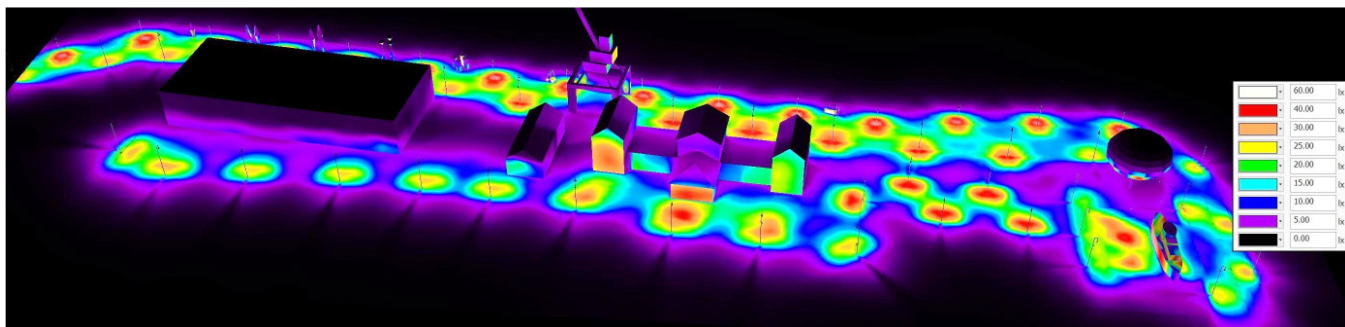
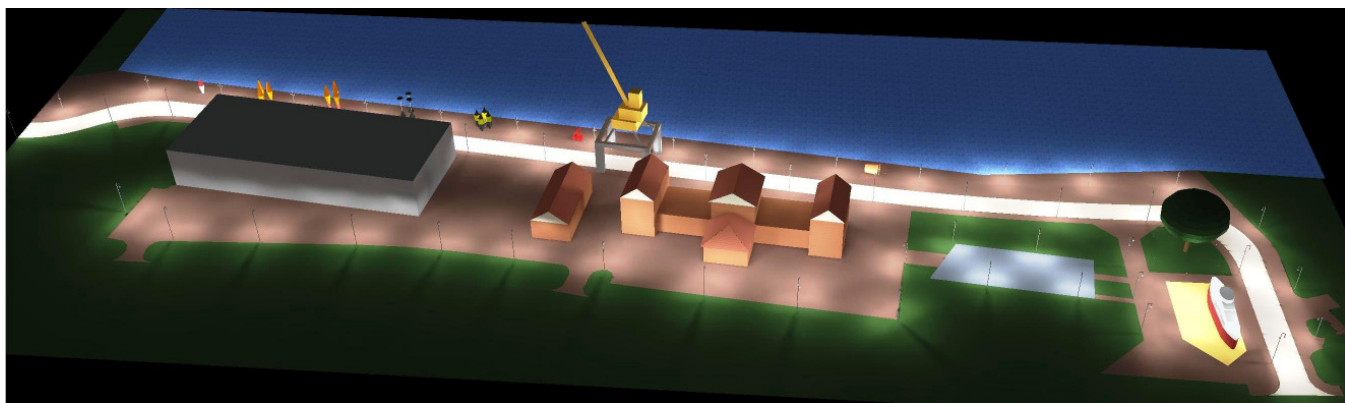
Grid: 10 x 6 Points

Observer Position: (-60.000 m, 4.500 m, 1.500 m)

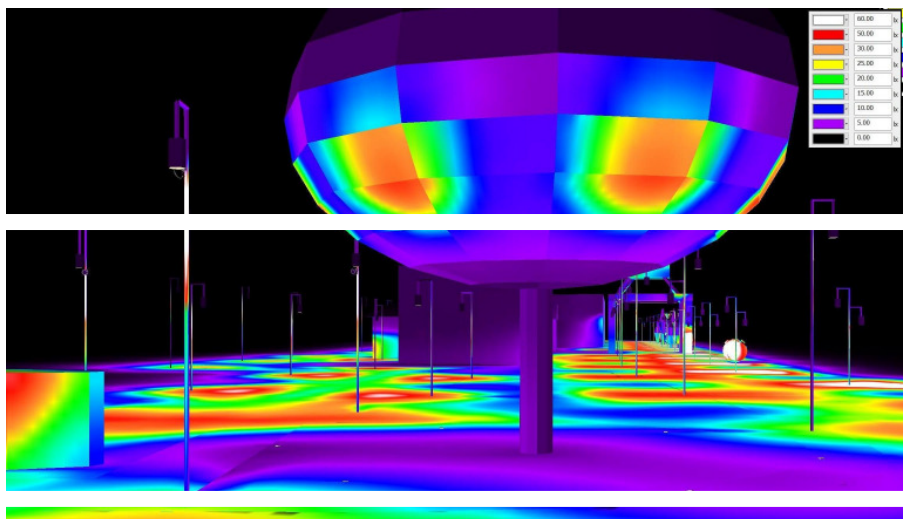
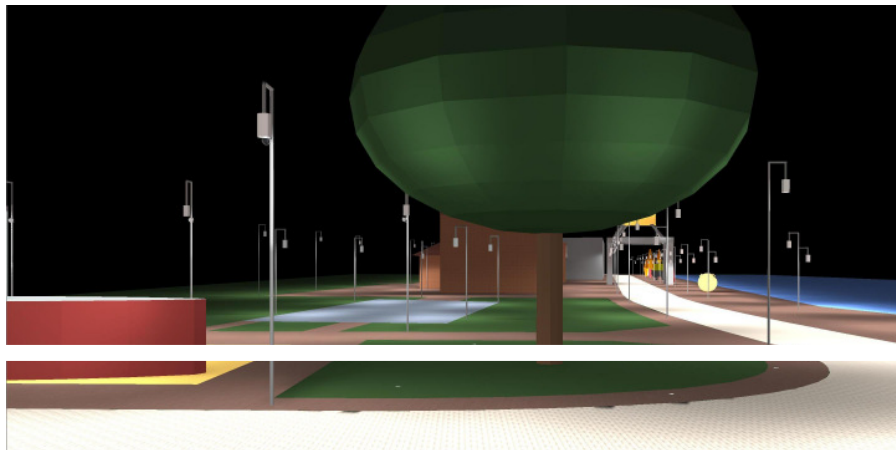
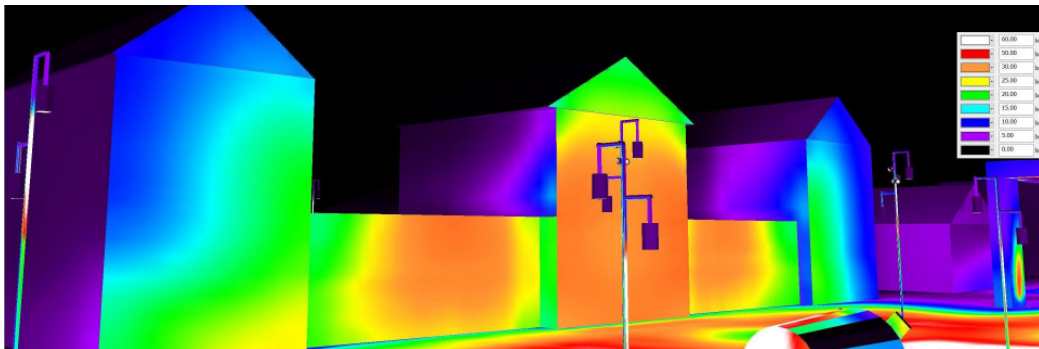
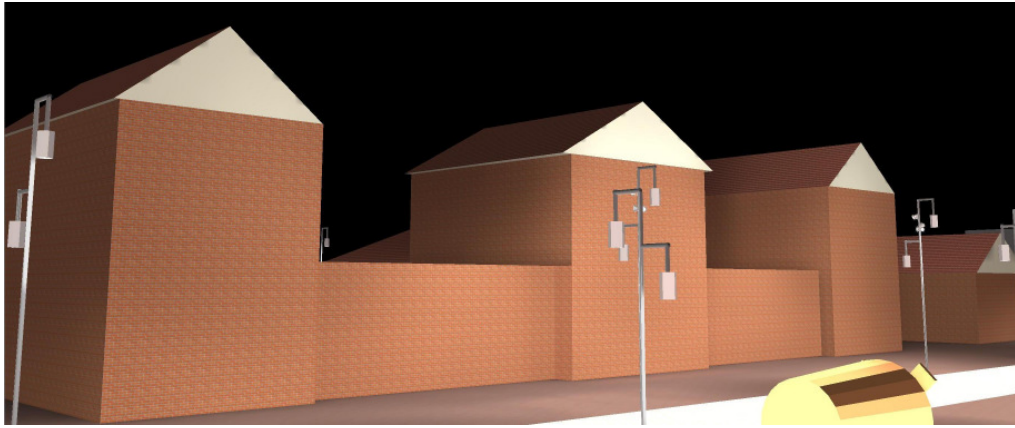
tarmac: R3, q0: 0.070

	L_{av} [cd/m²]	U0	UI	TI [%]
Calculated values:	1.08	0.84	0.88	5
Required values according to class ME4a:	≥ 0.75	≥ 0.40	≥ 0.60	≤ 15
Fulfilled/Not fulfilled:	✓	✓	✓	✓

Ventspils, Promenādes apgaismojums



Ventspils, Promenādes apgaismojums



Ventspils, Promenādes apgaismojums

