

Benešov - vnitroblok Tyršova

Standard EN 13201 : 2015

Designer rs

Study # 234 2024

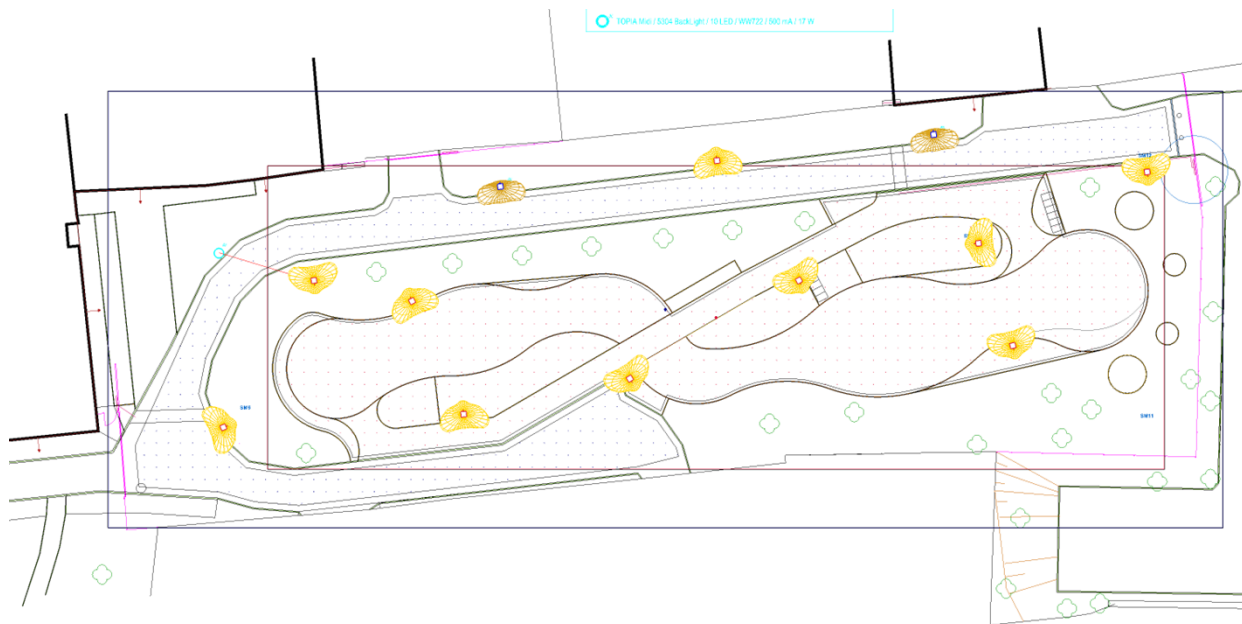
Date 27.05.2024

Application Ulysse 4.Beta 1.8

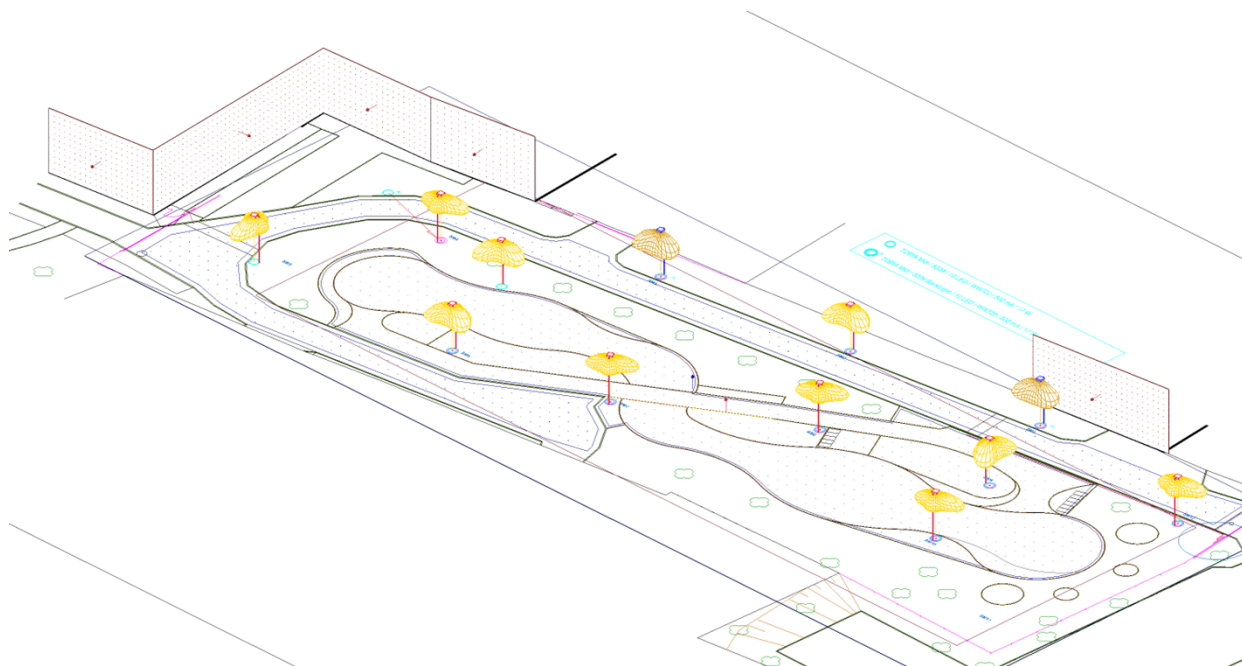
File Výpočet.lp3

1. Views

1.1. Půdorys



1.2. Fasády



2. Fixtures

2.1. TOPIA MIDI 5304 10 LEDs 500mA WW 722 16.5W 564702 Flat glass BL 230V EF

Type TOPIA MIDI 5304 Flat glass Back Light ...

Source 10 LEDs@500mA WW 722 230V 01-11-802

Source flux 2,171 klm

G* 6

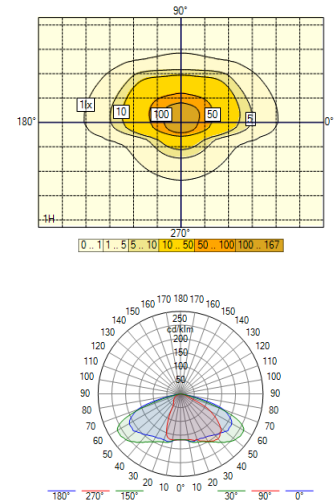
Luminaire wattage 16,5 W

MF 0,85

Matrix 564702

Luminaire flux 1,359 klm

Efficacy 82 lm/W



2.2. TOPIA MIDI 5304 10 LEDs 500mA WW 722 16.5W 564692 Flat glass 230V EF

Type TOPIA MIDI 5304 Flat glass 10 LEDs@500mA ...

Source 10 LEDs@500mA WW 722 230V 01-11-802

Source flux 2,171 klm

G* 6

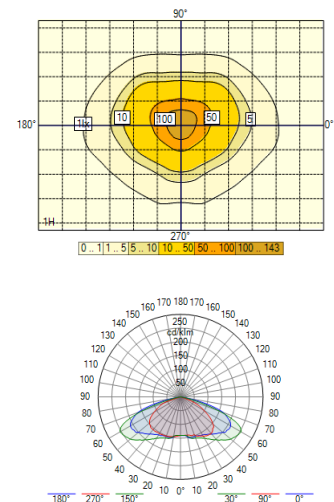
Luminaire wattage 16,5 W

MF 0,85

Matrix 564692

Luminaire flux 1,541 klm

Efficacy 93 lm/W



3. Results

3.1. Grid summary

Cesta okolo

P5 (IL : Min = 0,60 lux Ave = 3,00 lux)

1. Normal illuminance	Ave (A) (lx)	Min/Ave (%)	Min/Max (%)	Min (lx)	Max (lx)	
Soustava osvětlení	6,7	12	4	0,8	18,9	✔

Cesta vnitřní a hřiště

P5 (IL : Min = 0,60 lux Ave = 3,00 lux)

1. Normal illuminance	Ave (A) (lx)	Min/Ave (%)	Min/Max (%)	Min (lx)	Max (lx)	
Soustava osvětlení	7,0	13	5	0,9	18,1	✔

Fasády bloku 1

1. Normal illuminance	Ave (A) (lx)	Min/Ave (%)	Min/Max (%)	Min (lx)	Max (lx)	
Soustava osvětlení	0,1	0	0	0,0	1,6	N/A

Fasáda 2

1. Normal illuminance	Ave (A) (lx)	Min/Ave (%)	Min/Max (%)	Min (lx)	Max (lx)	
Soustava osvětlení	1,0	0	0	0,0	4,0	N/A

3.2. Values summary

4. Power consumption

4.1. Soustava osvětlení













Fixture	Current [mA]	Qty/km	Dimming	Power/Fixture	Total/km
TOPIA MIDI 5304 10 LEDs 500mA WW 722 16.5W 564692 Flat glass 230V EF	0	10	100 %	17 W	165 W
TOPIA MIDI 5304 10 LEDs 500mA WW 722 16.5W 564702 Flat glass BL 230V EF	0	2	100 %	17 W	33 W
Total					198 W

5. Soustava osvětlení

5.1. Matrix description

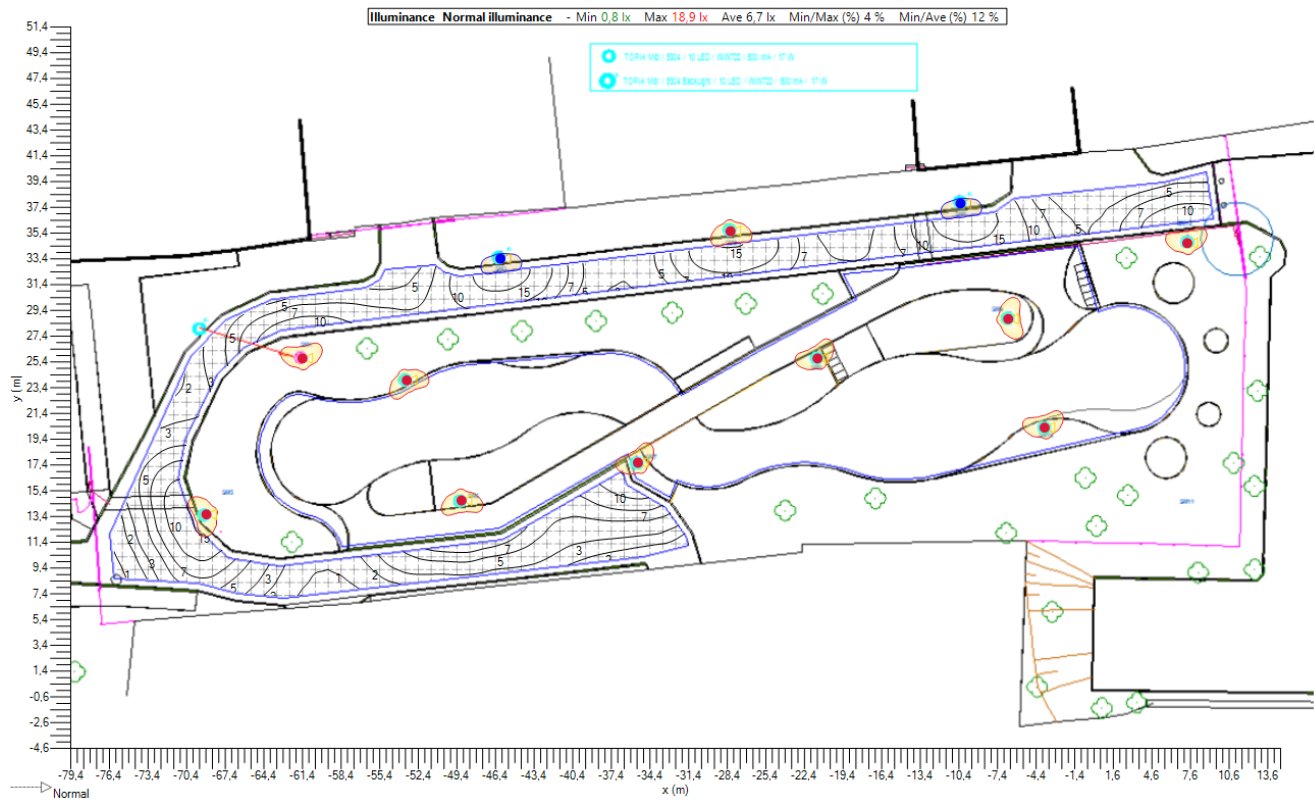
Photometric color	Description	Current [mA]	Source flux [klm]	Luminaires flux [klm]	Power [W]	Efficacy [lm/W]	MF	Height [m]	Fixture
☐	TOPIA MIDI 5304 10 LEDs 500mA WW 722 16.5W 564692 Flat glass 230V EF		2,171	1,541	16,5	93	0,850	10 x 4,00	
☐	TOPIA MIDI 5304 10 LEDs 500mA WW 722 16.5W 564702 Flat glass BL 230V EF		2,171	1,359	16,5	82	0,850	2 x 4,00	

5.2. Luminaire positions

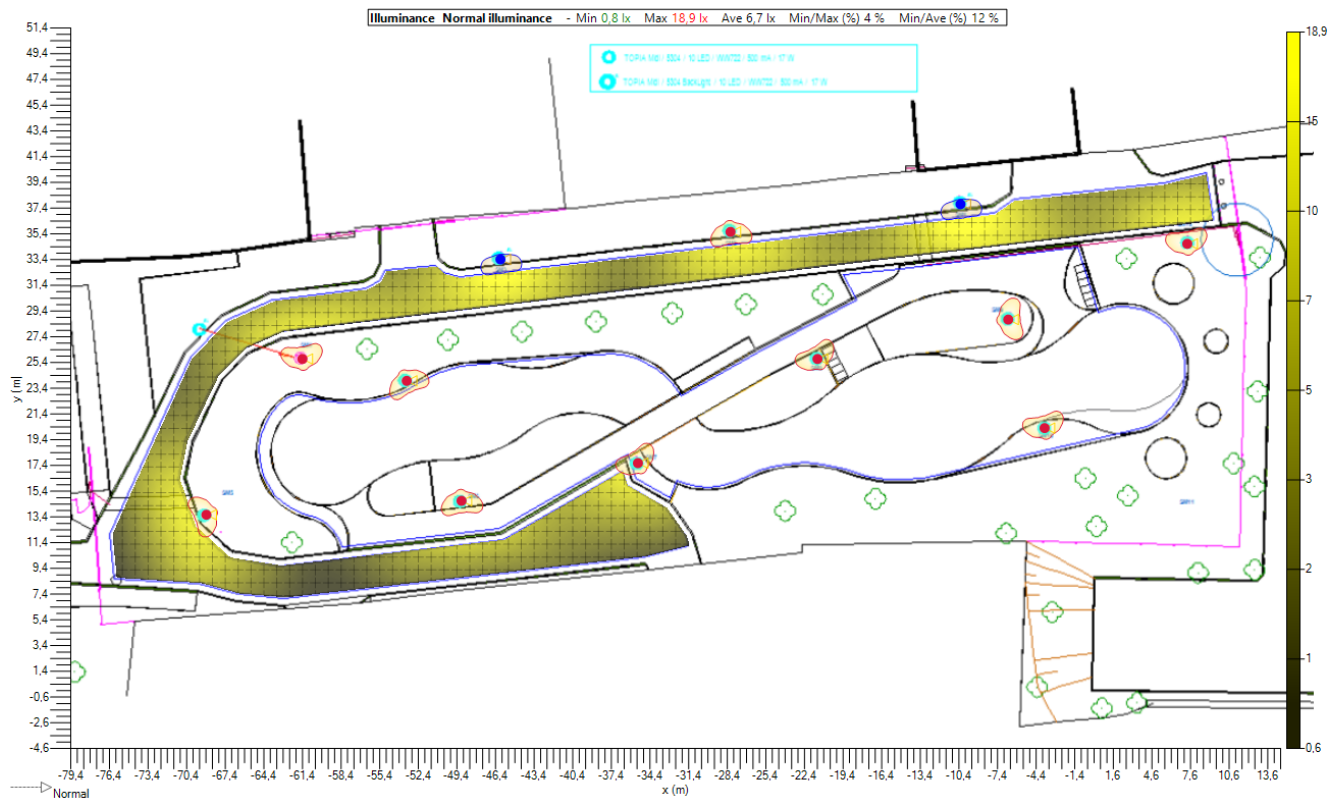
	Colour	N°	Position			Luminaire								Target		
			X [m]	Y [m]	Z [m]	Name	Current [mA]	Az. [°]	Incl. [°]	Incl (Imax) [°]	Rot. [°]	Flux [klm]	MF	X [m]	Y [m]	Z [m]
<input checked="" type="checkbox"/>		1	-68,86	13,49	4,00	TOPIA MIDI 5304 10 LEDs 500mA WW 722 16.5W 564692 Flat glass 230V EF	-	248,4	0,0	39,0	0,0	2,171	0,850	-68,86	13,49	0,00
<input checked="" type="checkbox"/>		2	-61,39	25,59	4,00	TOPIA MIDI 5304 10 LEDs 500mA WW 722 16.5W 564692 Flat glass 230V EF	-	352,0	0,0	39,0	0,0	2,171	0,850	-61,39	25,59	0,00
<input checked="" type="checkbox"/>		3	-53,30	23,89	4,00	TOPIA MIDI 5304 10 LEDs 500mA WW 722 16.5W 564692 Flat glass 230V EF	-	154,8	0,0	39,0	0,0	2,171	0,850	-53,30	23,89	0,00
<input checked="" type="checkbox"/>		4	-49,04	14,57	4,00	TOPIA MIDI 5304 10 LEDs 500mA WW 722 16.5W 564692 Flat glass 230V EF	-	173,9	0,0	39,0	0,0	2,171	0,850	-49,04	14,57	0,00
<input checked="" type="checkbox"/>		5	-46,01	33,34	4,00	TOPIA MIDI 5304 10 LEDs 500mA WW 722 16.5W 564702 Flat glass BL 230V EF	-	172,3	0,0	39,0	0,0	2,171	0,850	-46,01	33,34	0,00
<input checked="" type="checkbox"/>		6	-35,33	17,50	4,00	TOPIA MIDI 5304 10 LEDs 500mA WW 722 16.5W 564692 Flat glass 230V EF	-	328,4	0,0	39,0	0,0	2,171	0,850	-35,33	17,50	0,00
<input checked="" type="checkbox"/>		7	-28,14	35,47	4,00	TOPIA MIDI 5304 10 LEDs 500mA WW 722 16.5W 564692 Flat glass 230V EF	-	172,3	0,0	39,0	0,0	2,171	0,850	-28,14	35,47	0,00
<input checked="" type="checkbox"/>		8	-21,38	25,60	4,00	TOPIA MIDI 5304 10 LEDs 500mA WW 722 16.5W 564692 Flat glass 230V EF	-	330,8	0,0	39,0	0,0	2,171	0,850	-21,38	25,60	0,00
<input checked="" type="checkbox"/>		9	-10,27	37,62	4,00	TOPIA MIDI 5304 10 LEDs 500mA WW 722 16.5W 564702 Flat glass BL 230V EF	-	172,3	0,0	39,0	0,0	2,171	0,850	-10,27	37,62	0,00
<input checked="" type="checkbox"/>		10	-6,56	28,66	4,00	TOPIA MIDI 5304 10 LEDs 500mA WW 722 16.5W 564692 Flat glass 230V EF	-	84,0	0,0	39,0	0,0	2,171	0,850	-6,56	28,66	0,00
<input checked="" type="checkbox"/>		11	-3,74	20,23	4,00	TOPIA MIDI 5304 10 LEDs 500mA WW 722 16.5W 564692 Flat glass 230V EF	-	345,1	0,0	39,0	0,0	2,171	0,850	-3,74	20,23	0,00
<input checked="" type="checkbox"/>		12	7,35	34,54	4,00	TOPIA MIDI 5304 10 LEDs 500mA WW 722 16.5W 564692 Flat glass 230V EF	-	350,7	0,0	39,0	0,0	2,171	0,850	7,35	34,54	0,00

5.3. Cesta okolo - Normal

Isolevel

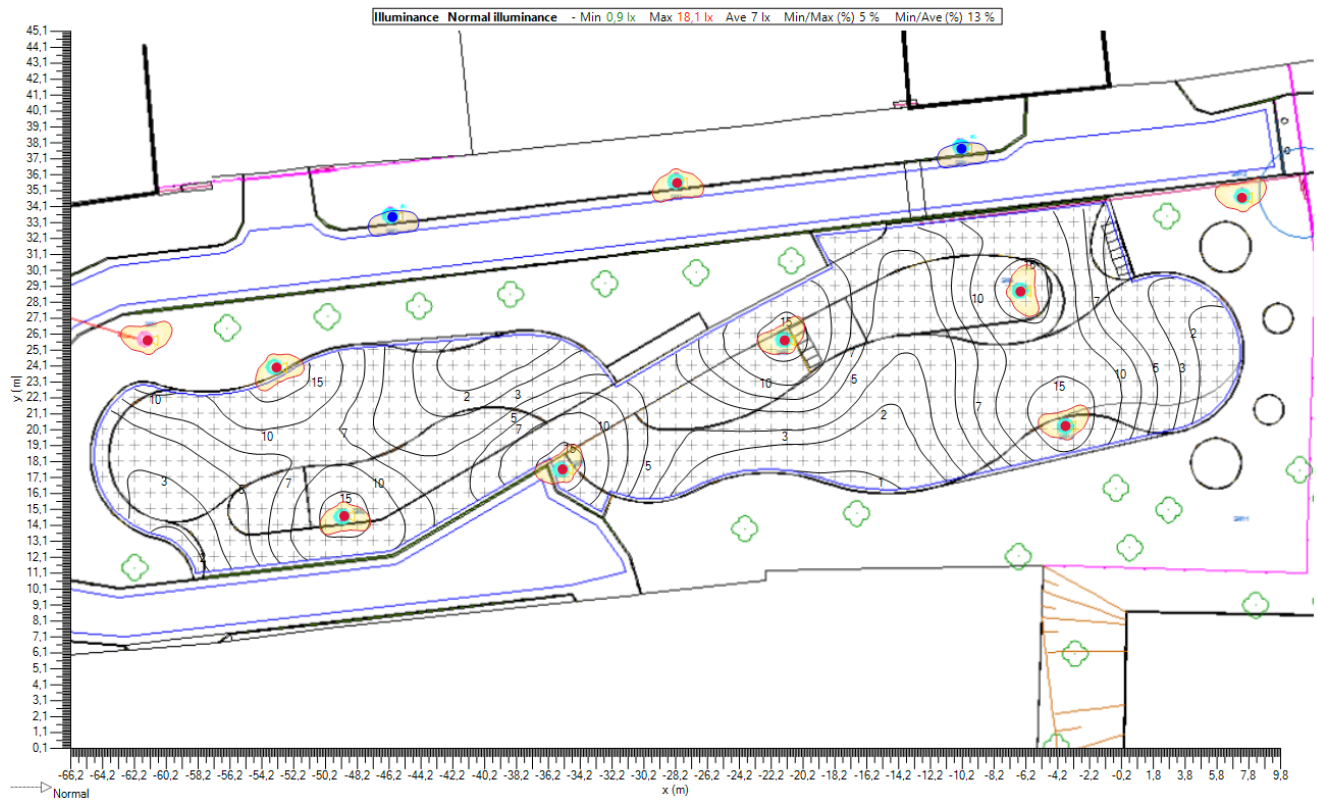


Shading

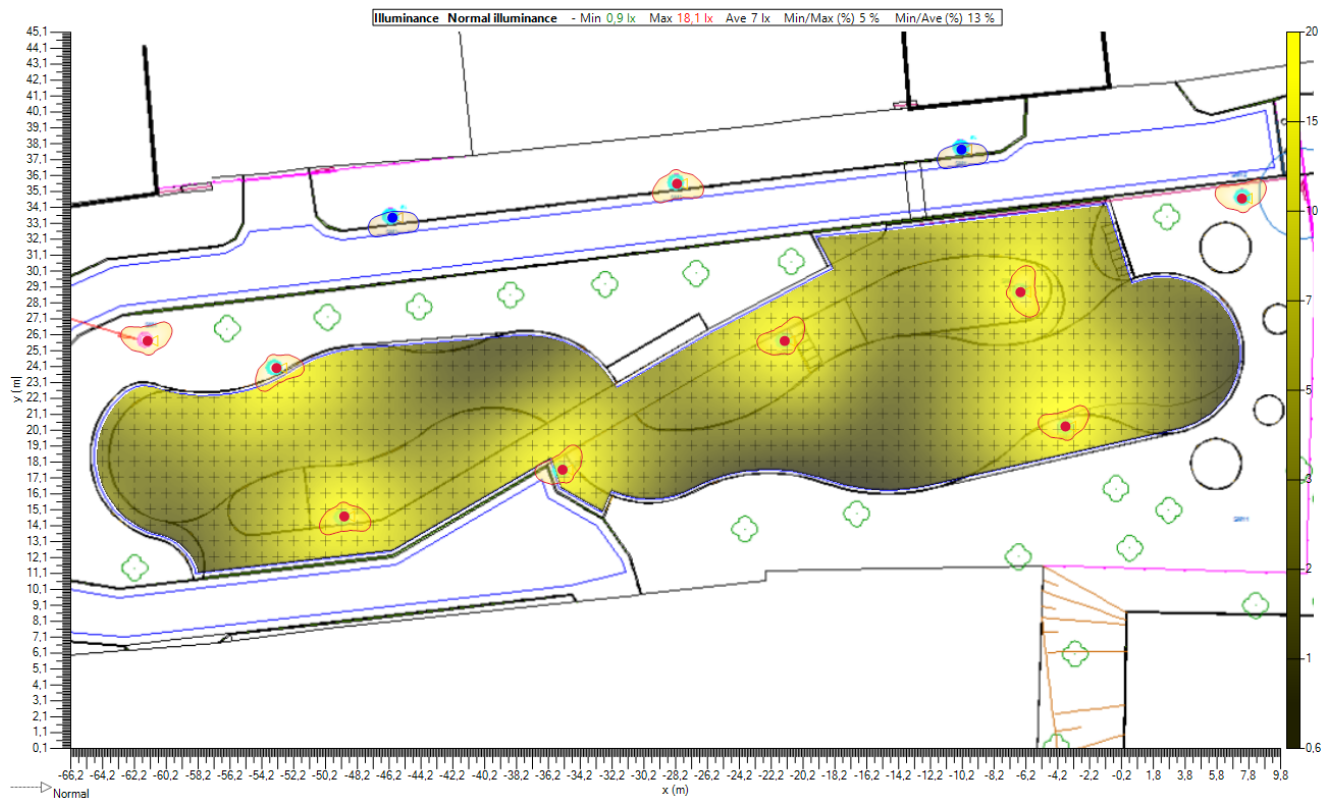


5.4. Cesta vnitřní a hřiště - Normal

Isolevel

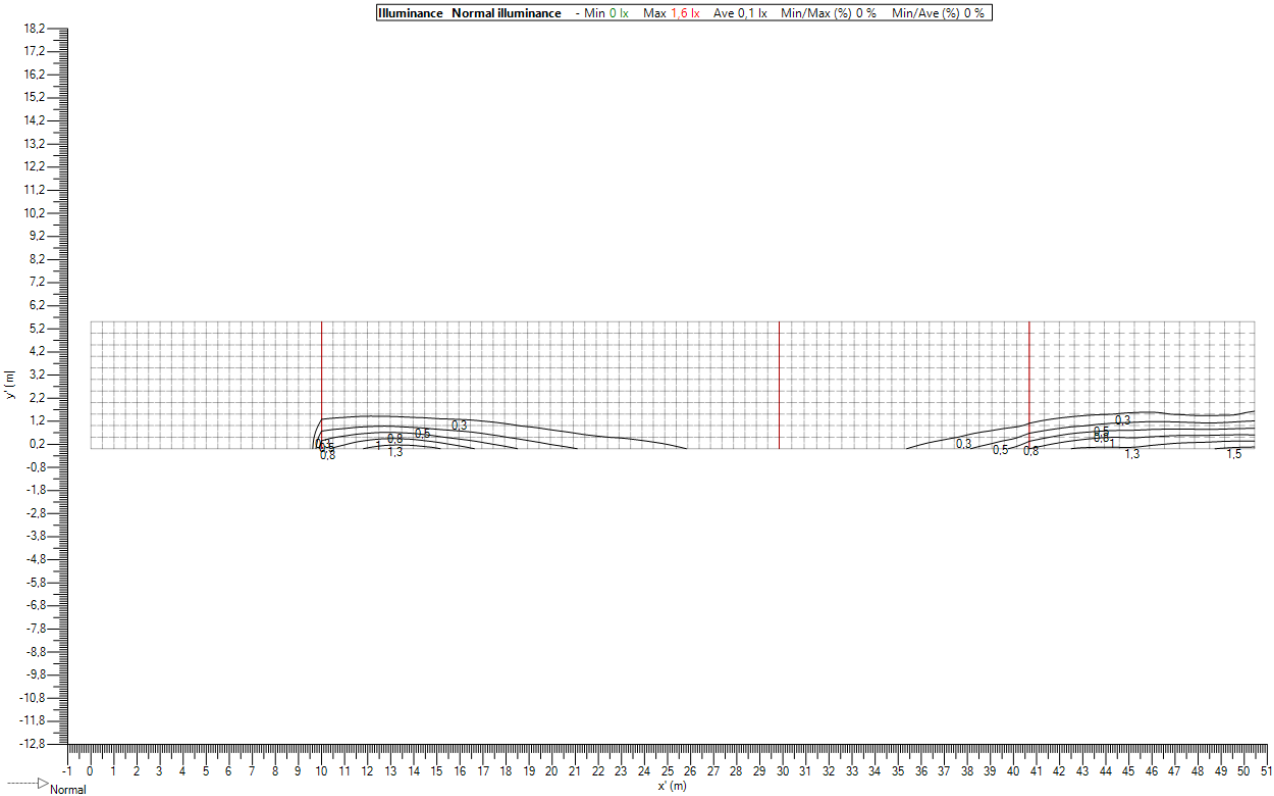


Shading

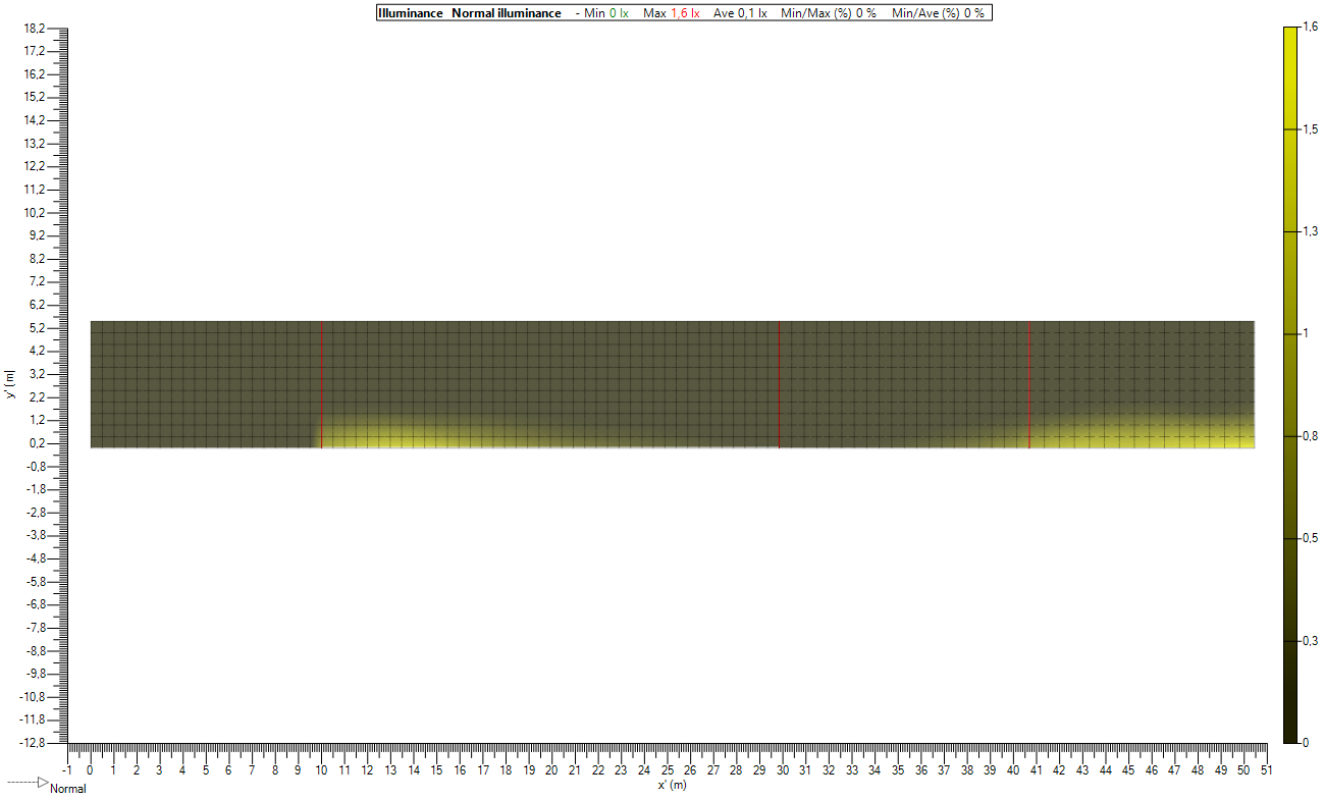


5.5. Fasády bloku 1 - Normal

Isolevel

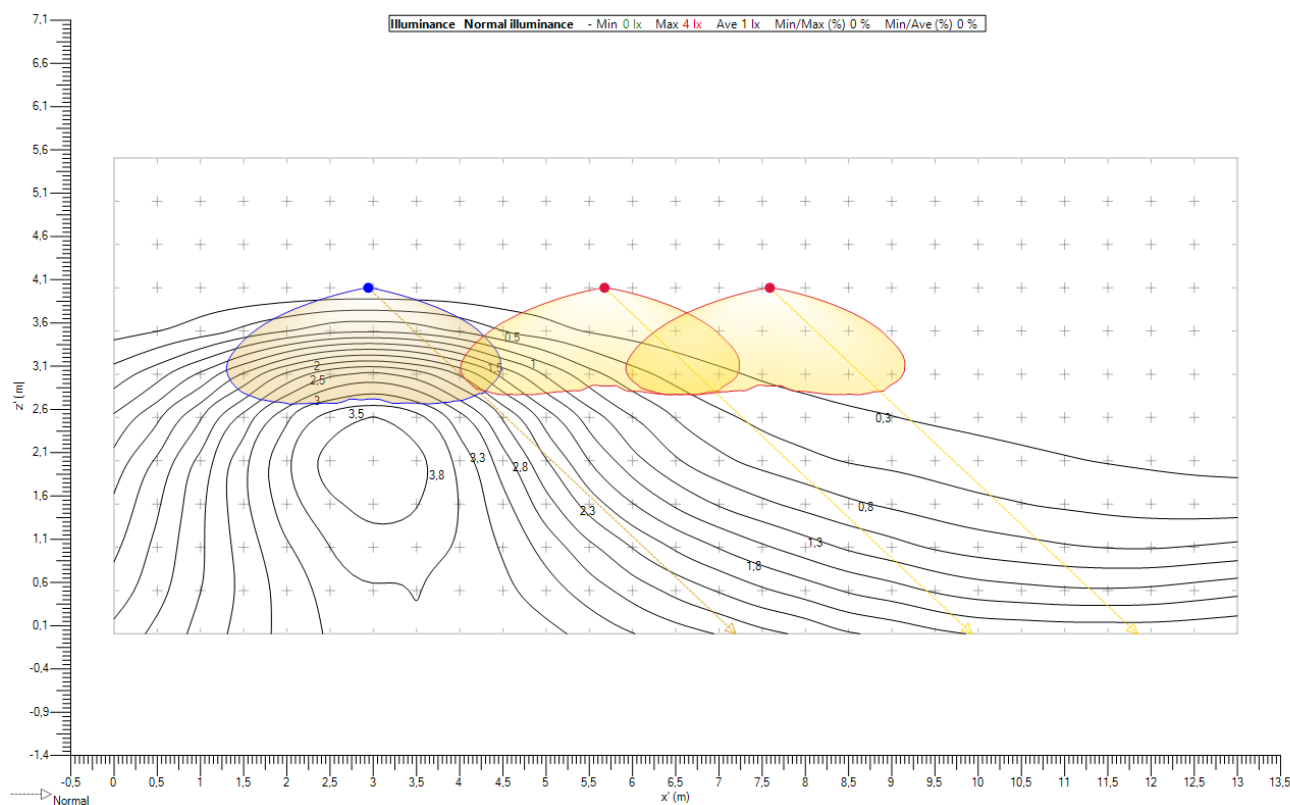


Shading

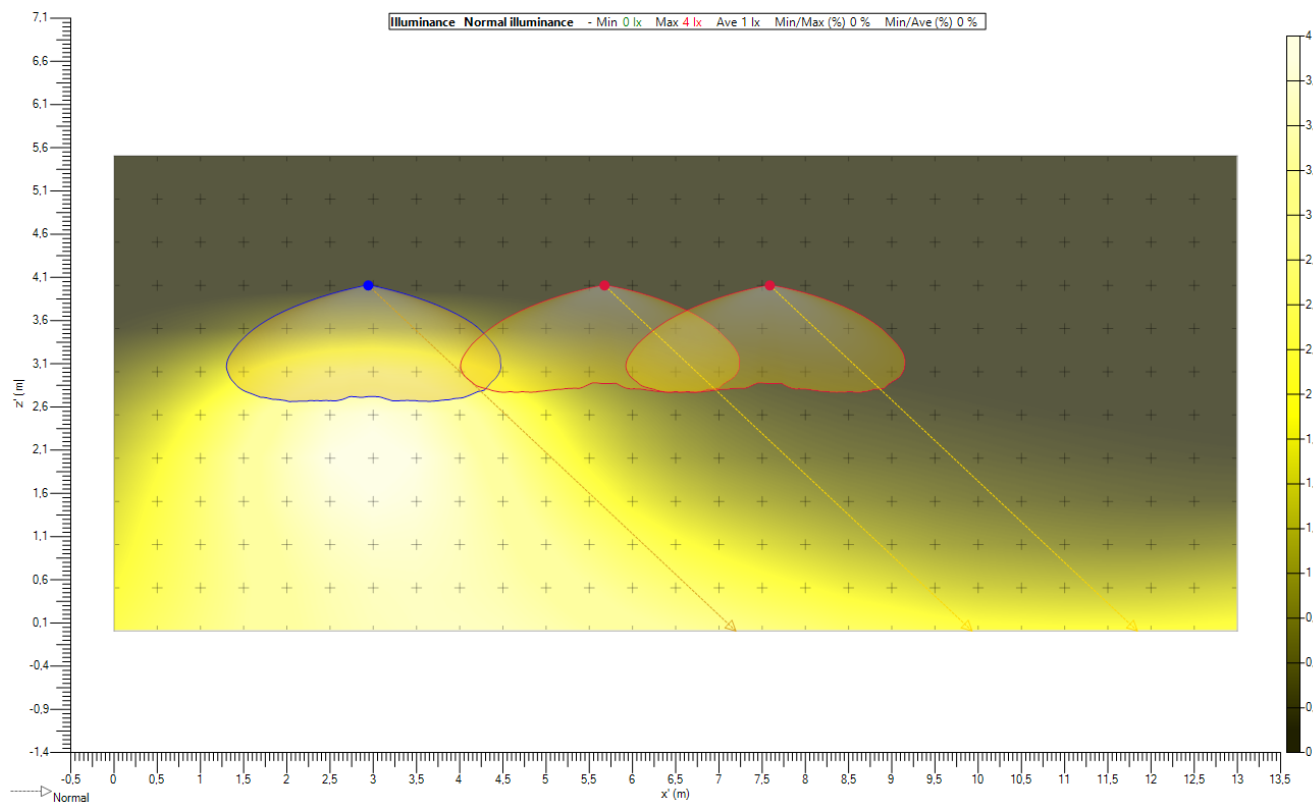


5.6. Fasáda 2 - Normal

Isolevel



Shading



6. Grids

6.1. Cesta okolo

General

Type

Grid rectangular XY

Use exclusion

Filtered

Enabled

☒

Colour

Geometry

Origin

X

-78,39 m

Y

5,20 m

Z

0,00 m

Rotation

X

0,0 °

Y

0,0 °

Z

0,0 °

Dimension

Count X

93

Count Y

37

Spacing X

1,00 m

Spacing Y

1,00 m

Size X

92,00 m

Size Y

36,00 m

6.2. Cesta vnitřní a hřiště

General

Type

Grid rectangular XY

Use exclusion

Filtered

Enabled

☒

Colour

Geometry

Origin

X

-65,22 m

Y

10,03 m

Z

0,00 m

Rotation

X

0,0 °

Y

0,0 °

Z

0,0 °

Dimension

Count X

75

Count Y

26

Spacing X

1,00 m

Spacing Y

1,00 m

Size X

74,00 m

Size Y

25,00 m

6.3. Fasády bloku 1

General

Type

Grid curtain XY

Enabled

☒

Colour

Geometry

Origin

X

-89,15 m

Y

12,13 m

Z

0,00 m

Rotation

X

0,0 °

Y

0,0 °

Z

0,0 °

Dimension

Count

12

Spacing

0,50 m

Size

5,50 m

6.4. Fasáda 2

General

Type

Grid rectangular XZ

Enabled

☒

Colour

Geometry

Origin

X

-13,48 m

Y

40,04 m

Z

0,00 m

Rotation

X

0,0 °

Y

0,0 °

Z

6,1 °

Dimension

Count X

27

Count Z

12

Spacing X

0,50 m

Spacing Z

0,50 m

Size X

13,00 m

Size Z

5,50 m