

Praha - Novoborská

Standard EN 13201 : 2015

Designer rs

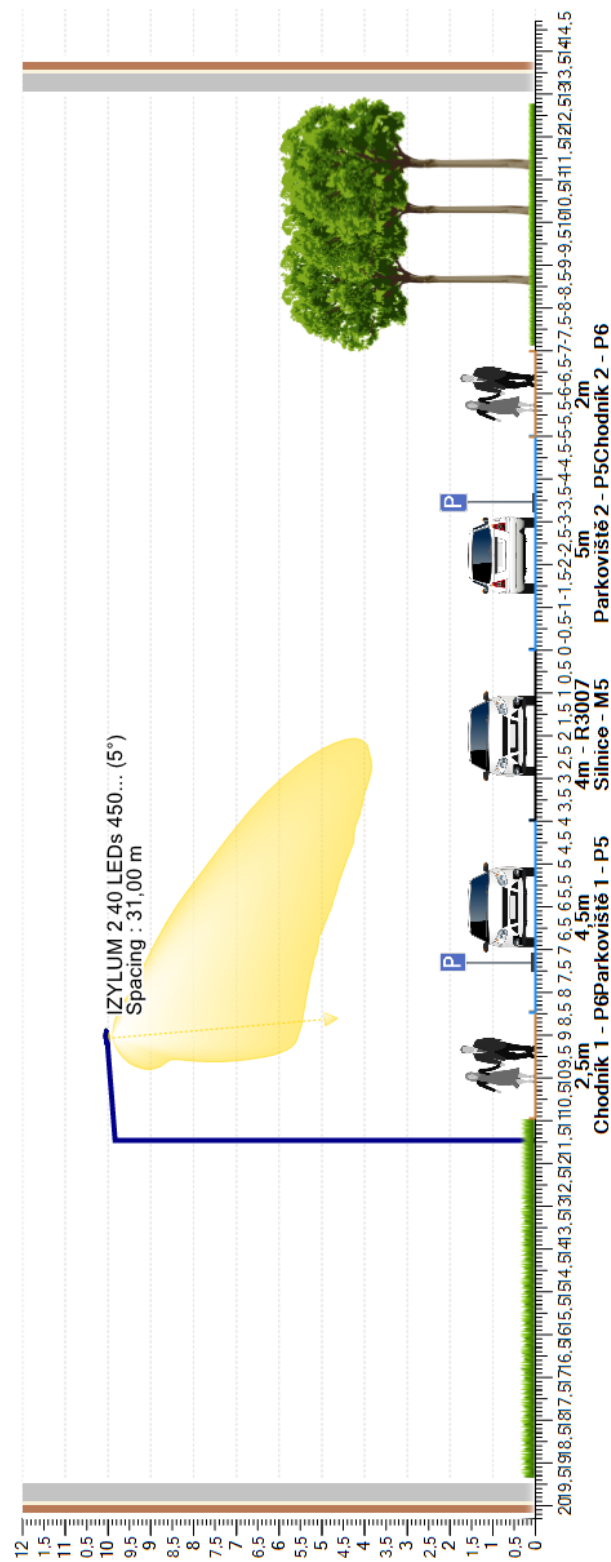
Study # 521 2022

Date 28.07.2022

Application Ulysse 3.5.5

1. Cross section

1.1. 2D View



2. Fixtures

2.1. IZYLUM 2 40 LEDs 450mA WW730 Flat glass 5308 Light Exhauster, Back light 449612

Type IZYLUM 2

Reflector 5308

Source 40 LEDs 450mA WW730

Protector Flat glass

Source flux 9,169 klm

G* 4

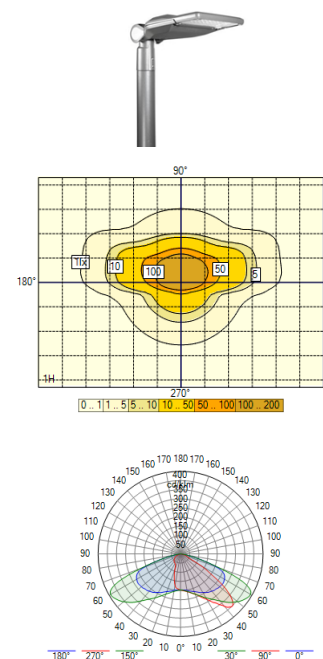
Luminaire wattage 55,0 W

MF 0,80

Matrix 449612

Luminaire flux 7,429 klm

Efficacy 135 lm/W



3. Results

3.1. Grid summary

Fasáda 1 (IL)

1. Y negative illuminance	Ave (A) (lx)	Min/Ave (%)	Min/Max (%)	Min (lx)	Max (lx)
Dynamic cross section	0,37	0	0	0,00	1,29

N/A

Chodník 1 (IL)

P6 (IL : Min = 0,40 lux Ave = 2,00 lux)

1. Z positive illuminance	Ave (A) (lx)	Min/Ave (%)	Min/Max (%)	Min (lx)	Max (lx)
Dynamic cross section	8,68	41	25	3,59	14,50

✓

Parkoviště 1 (IL)

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

1. Z positive illuminance	Ave (A) (lx)	Min/Ave (%)	Min/Max (%)	Min (lx)	Max (lx)
Dynamic cross section	11,2	62	47	7,0	14,9

✓

Silnice (LU)

M5 (LU : Ave = 0,50 cd/m² Uo = 35 % UI = 40 % UoW = 15 % TI : 15 % EIR : 0,30)

1. Luminance - RTable - R3007	Ave (A) (cd/m²)	Min/Ave (%)	Min/Max (%)	Min (cd/m²)	Max (cd/m²)	UL (%)
Dynamic cross section - Observer 1 (-60,00; 2,00; 1,50)	0,51	81	64	0,41	0,65	88 %

✓

Silnice (IL)

1. Z positive illuminance	Ave (A) (lx)	Min/Ave (%)	Min/Max (%)	Min (lx)	Max (lx)
Dynamic cross section	10,3	75	59	7,7	13,1

N/A

Parkoviště 2 (IL)

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

1. Z positive illuminance	Ave (A) (lx)	Min/Ave (%)	Min/Max (%)	Min (lx)	Max (lx)
Dynamic cross section	7,11	63	43	4,49	10,53

✓

Chodník 2 (IL)

P6 (IL : Min = 0,40 lux Ave = 2,00 lux)

1. Z positive illuminance	Ave (A) (lx)	Min/Ave (%)	Min/Max (%)	Min (lx)	Max (lx)
Dynamic cross section	3,70	63	43	2,32	5,39

✓

Fasáda 2 (IL)

1. Y positive illuminance	Ave (A) (lx)	Min/Ave (%)	Min/Max (%)	Min (lx)	Max (lx)
Dynamic cross section	0,44	0	0	0,00	1,32

N/A

3.2. Observer summary

Silnice (TI 1)

M5 (LU : Ave = 0,50 cd/m² Uo = 35 % UI = 40 % UoW = 15 % TI : 15 % EIR : 0,30)

	TI
Dynamic cross section - Direction (0,0)	6

3.3. Values summary



EIR road

M5 (LU : Ave = 0,50 cd/m² Uo = 35 % UI = 40 % UoW = 15 % TI : 15 % EIR : 0,30)


	EIR road
Dynamic cross section - Silnice (EIR)	0,74

4. Dynamic cross section

4.1. Matrix description

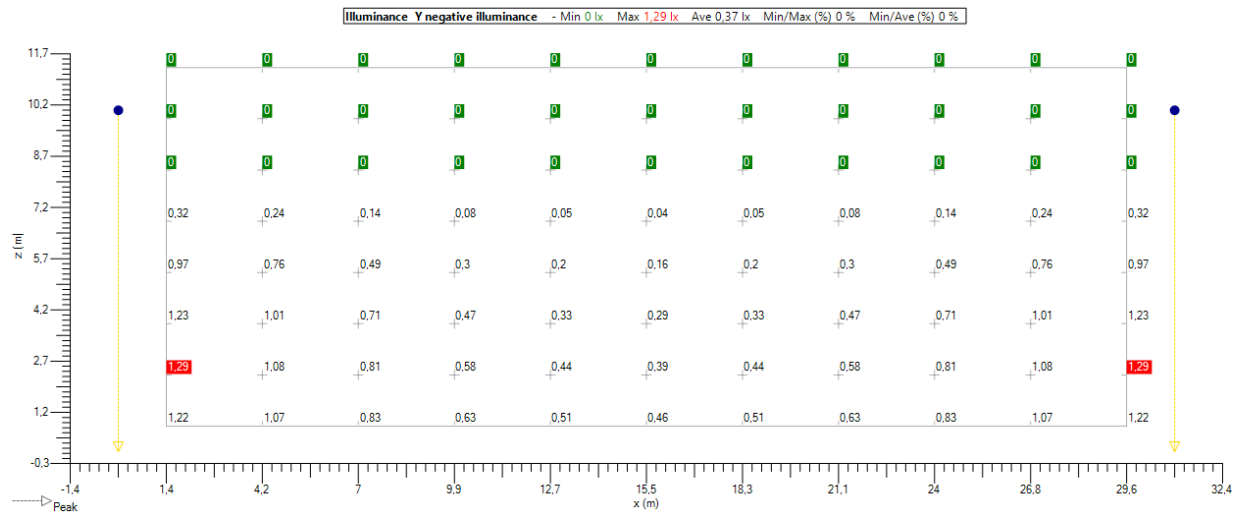
Ph. color	Description	Current [mA]	Source flux [klm]	Luminair e flux [klm]	Power [W]	Efficacy [lm/W]	MF	Height [m]	Fixture
	IZYLUM 2 40 LEDs 450mA WW730 Flat glass 5308 Light Exhauster, Back light 449612	450	9,169	7,429	55,1	135	0,800	10 x 10,00	

4.2. Luminaire groups

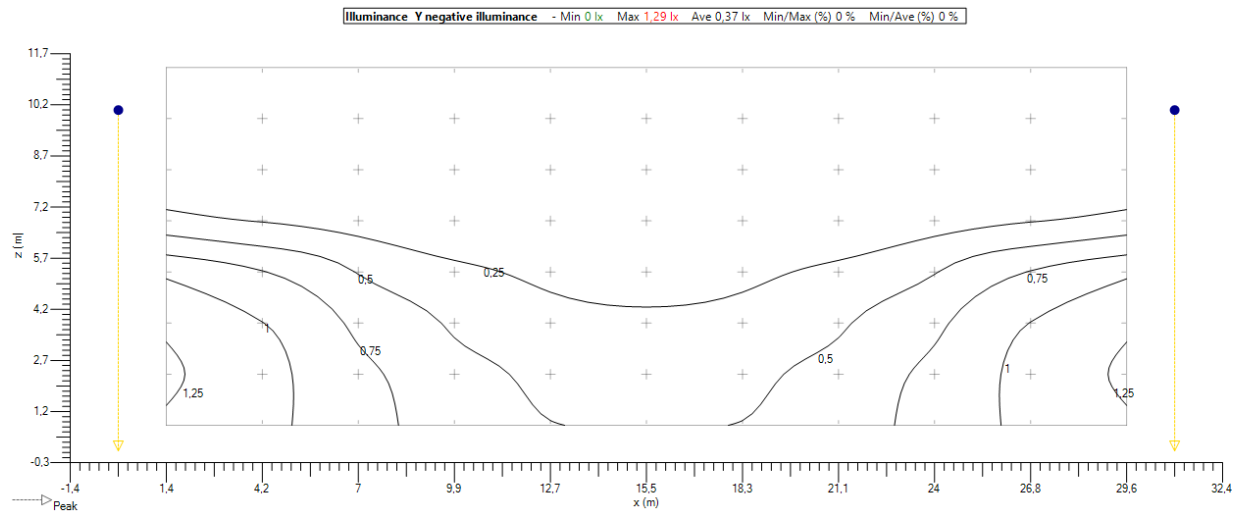
Linear																
	Color	N°	Position			Luminaire					Dimension			Rotation		
			X [m]	Y [m]	Z [m]	Name	Az [°]	Incl [°]	Rot [°]	Dim [%]	Count	Spacing [m]	Size [m]	X [°]	Y [°]	Z [°]
<input checked="" type="checkbox"/>		1	-124,00	9,20	10,00	Soustava VO	180,0	5,0	0,0	100	10	31,00	279,00	0,0	0,0	0,0

4.3. Fasáda 1 (IL) - Y negative

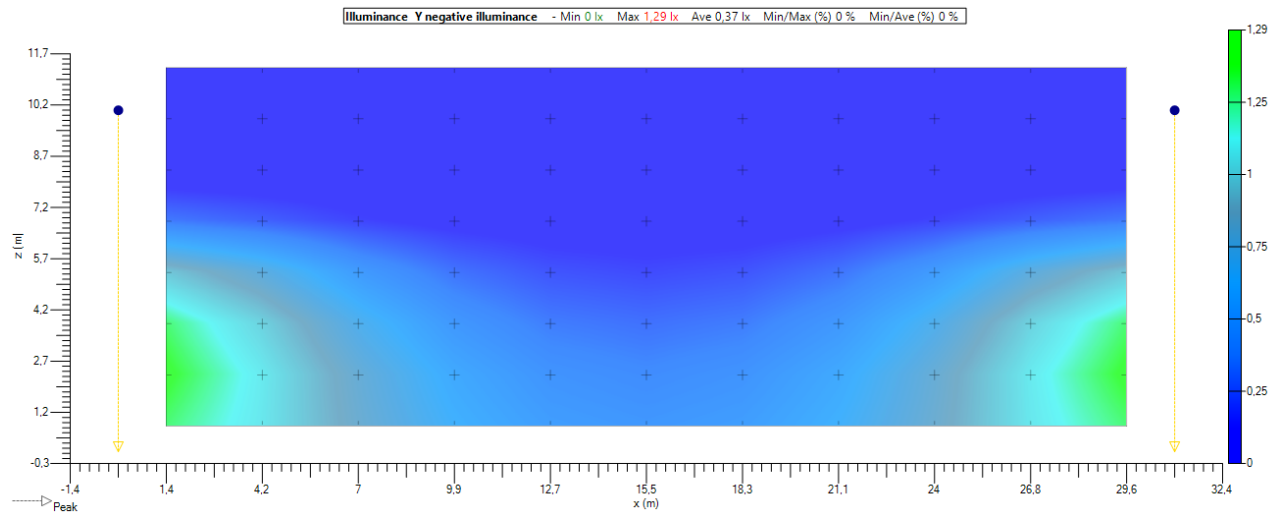
Values



Isolevel

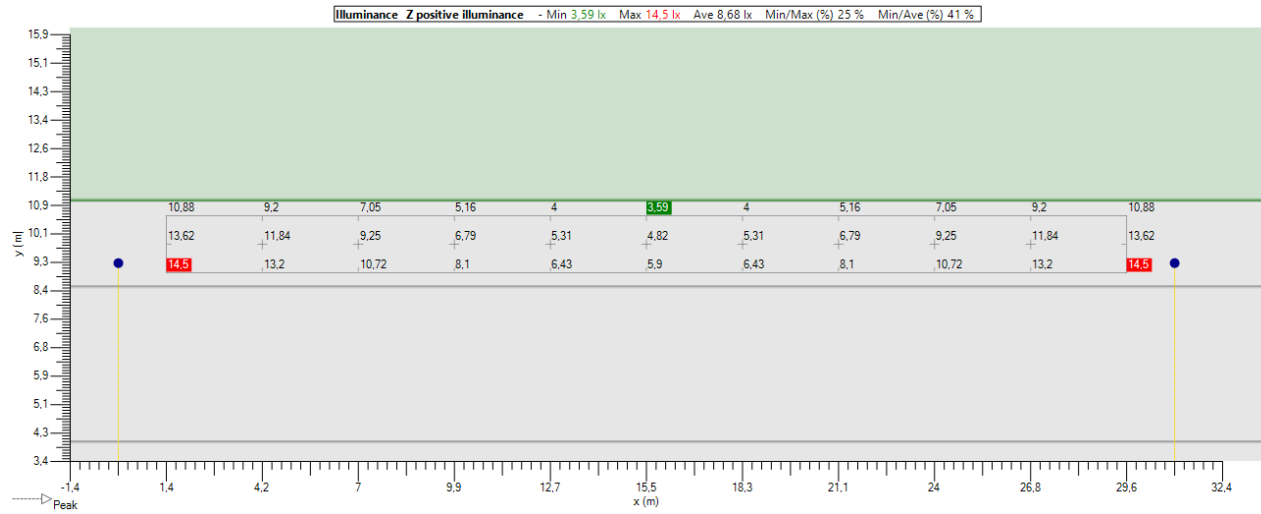


Shading

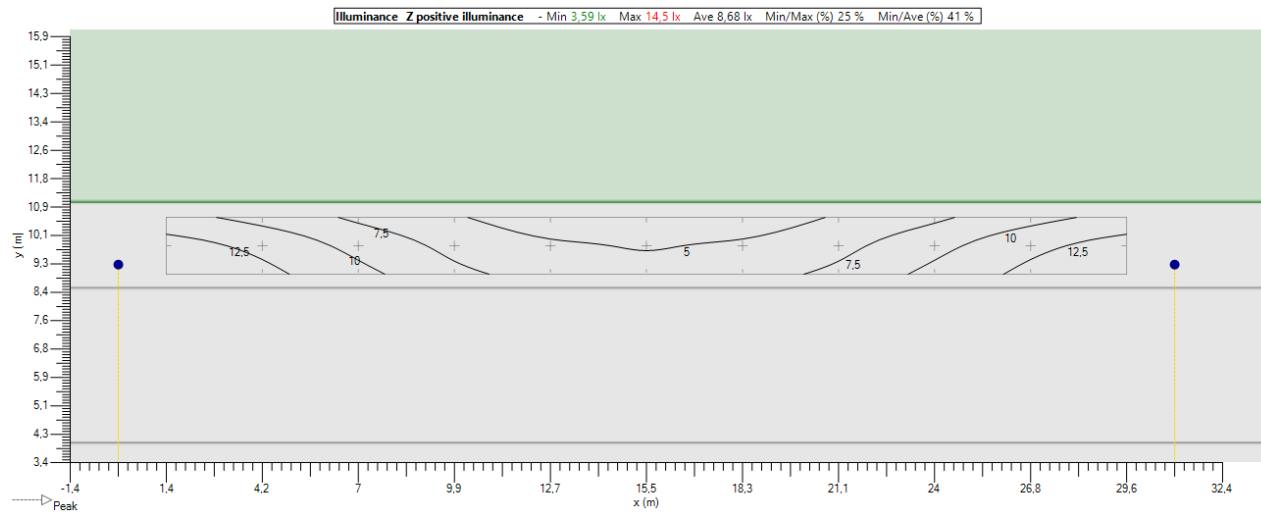


4.4. Chodník 1 (IL) - Z positive

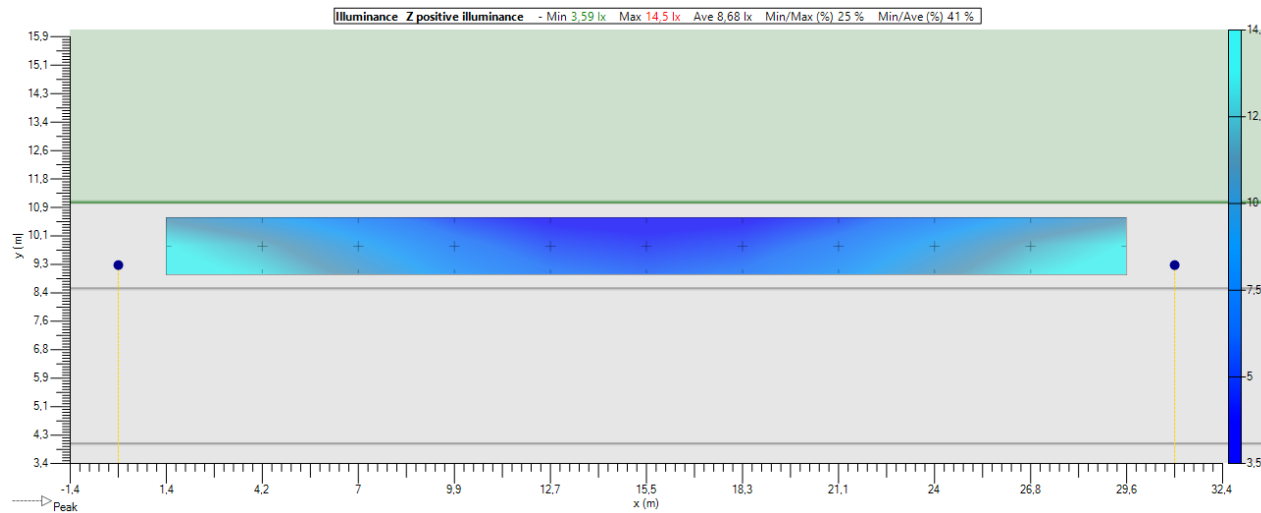
Values



Isolevel

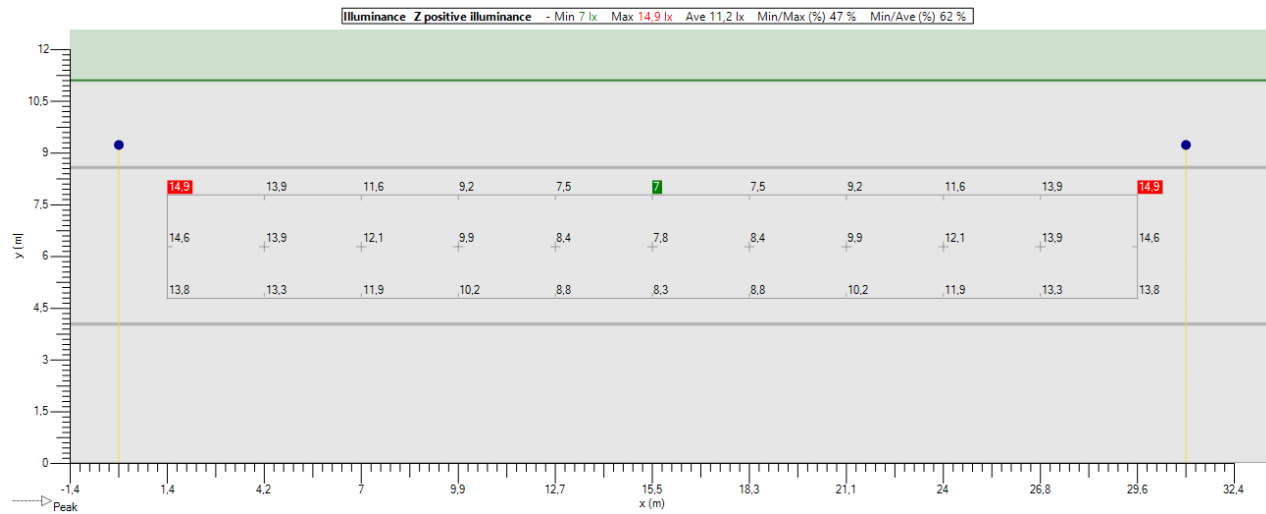


Shading

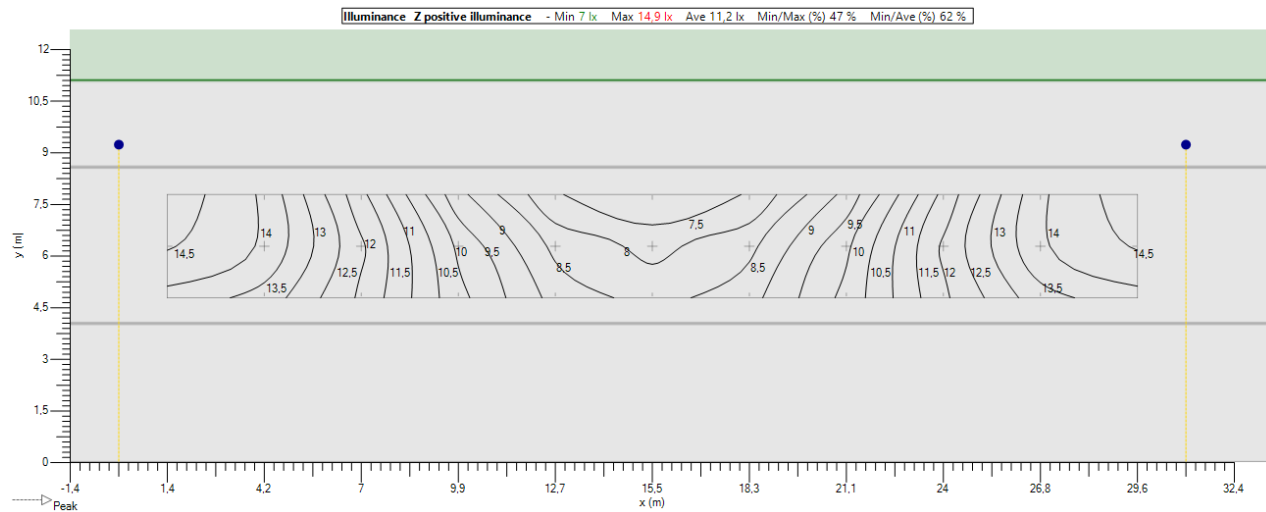


4.5. Parkoviště 1 (IL) - Z positive

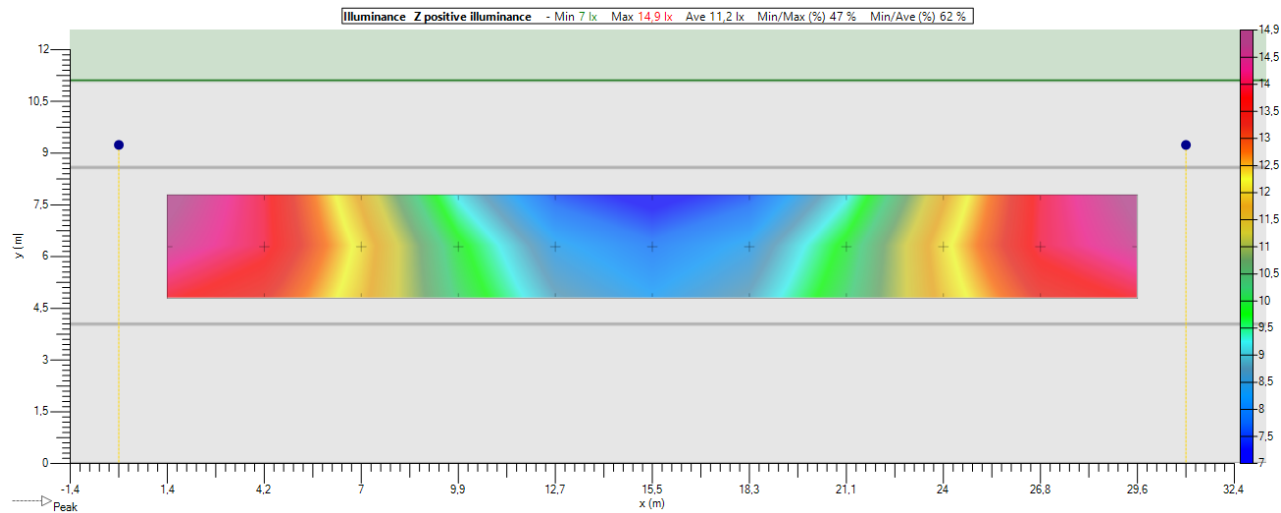
Values



Isolevel

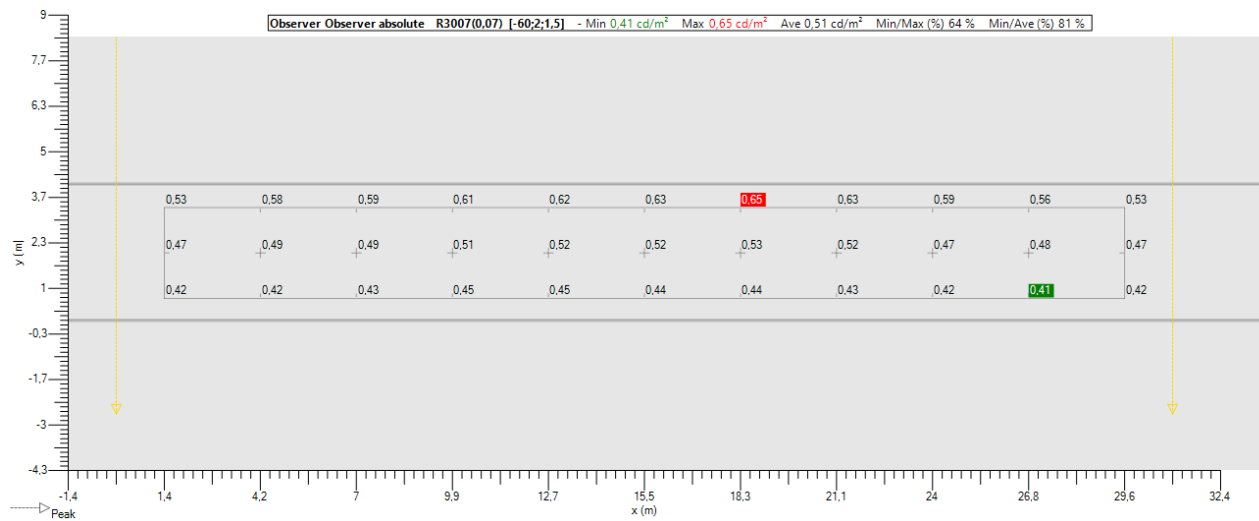


Shading

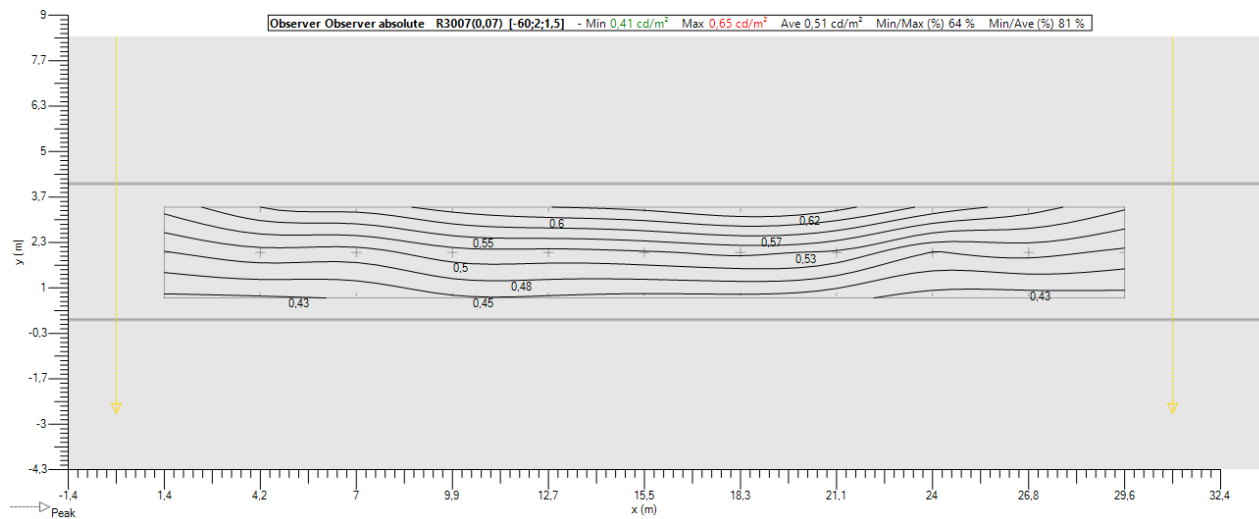


4.6. Silnice (LU) - Luminance RTable - Absolute 1

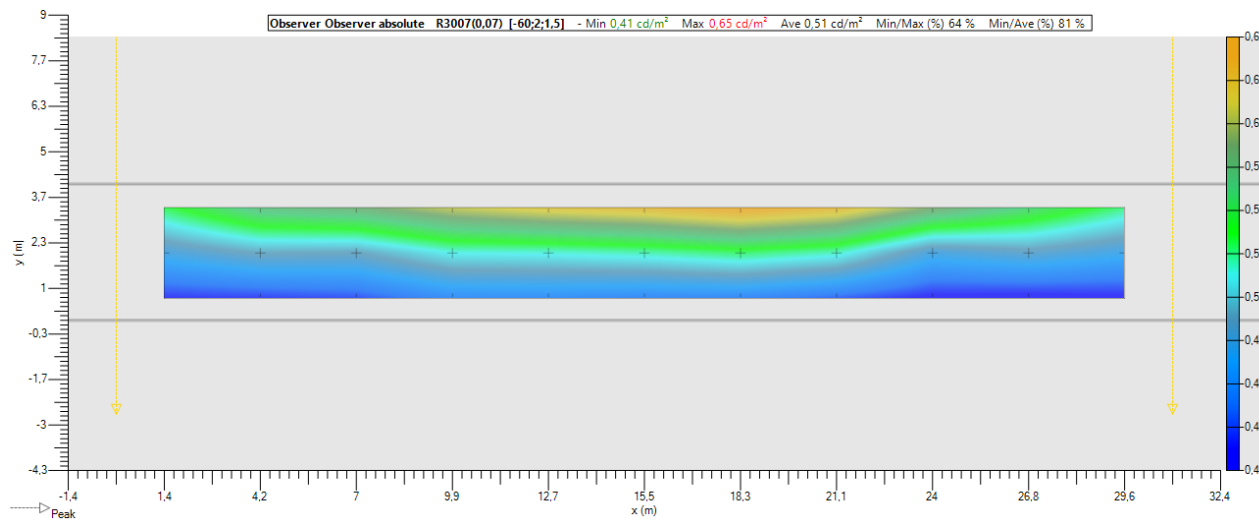
Values



Isolevel

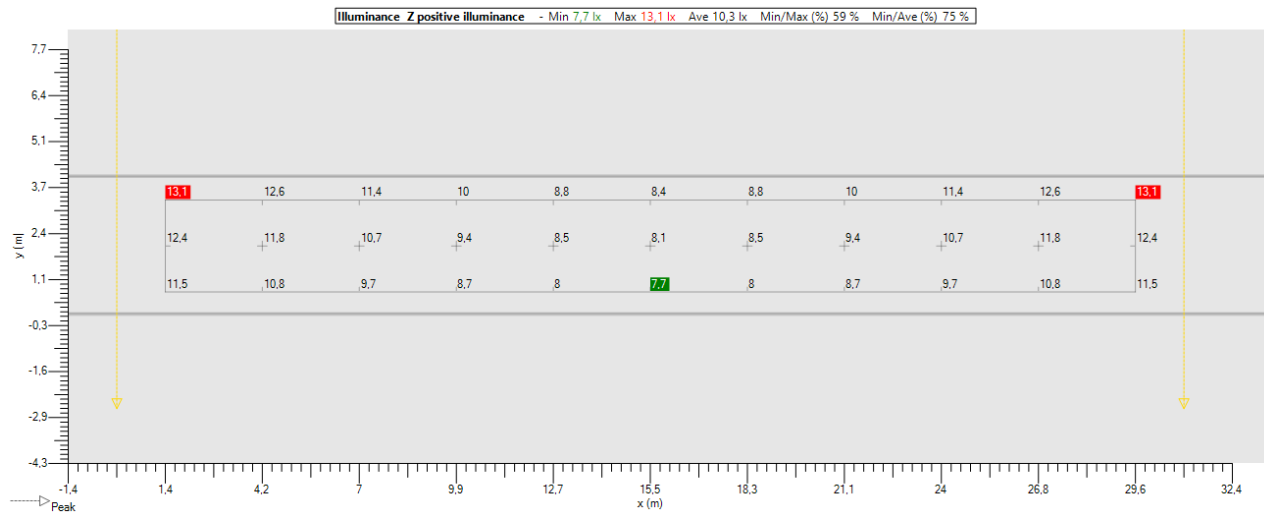


Shading

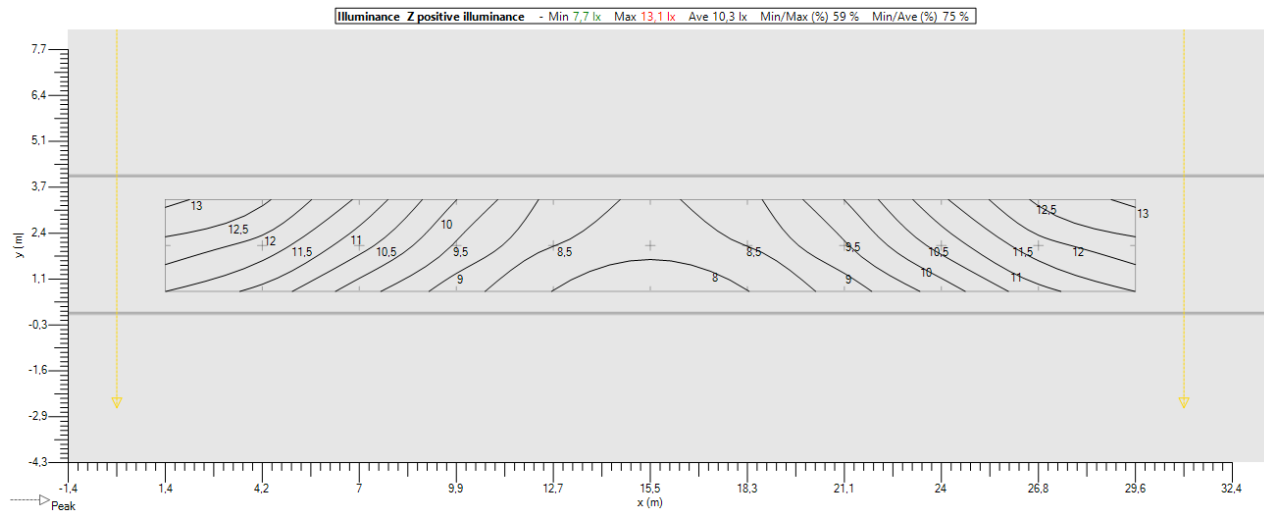


4.7. Silnice (IL) - Z positive

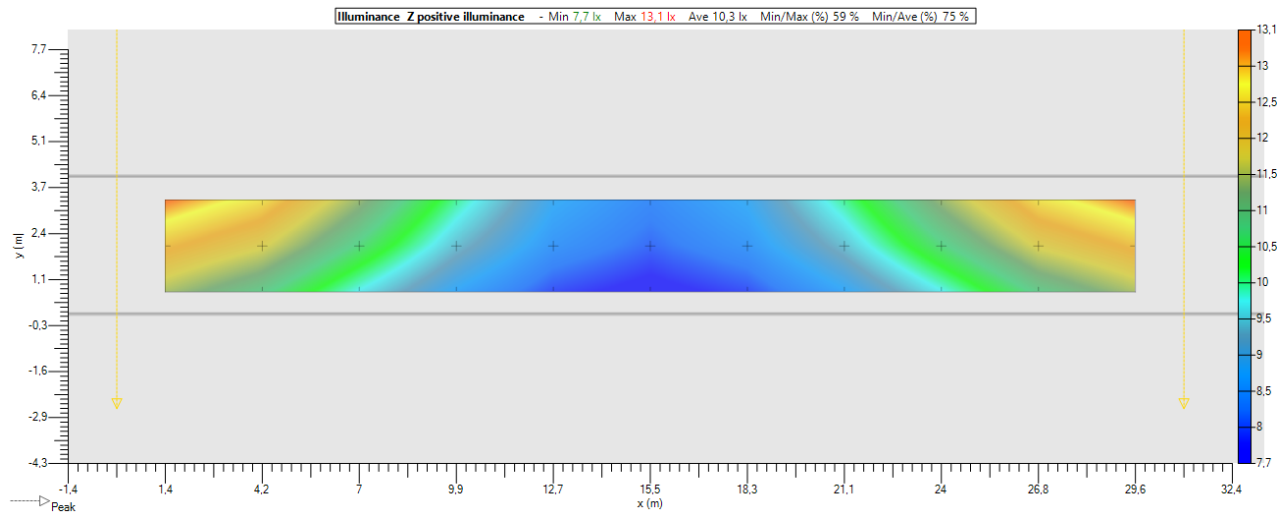
Values



Isolevel

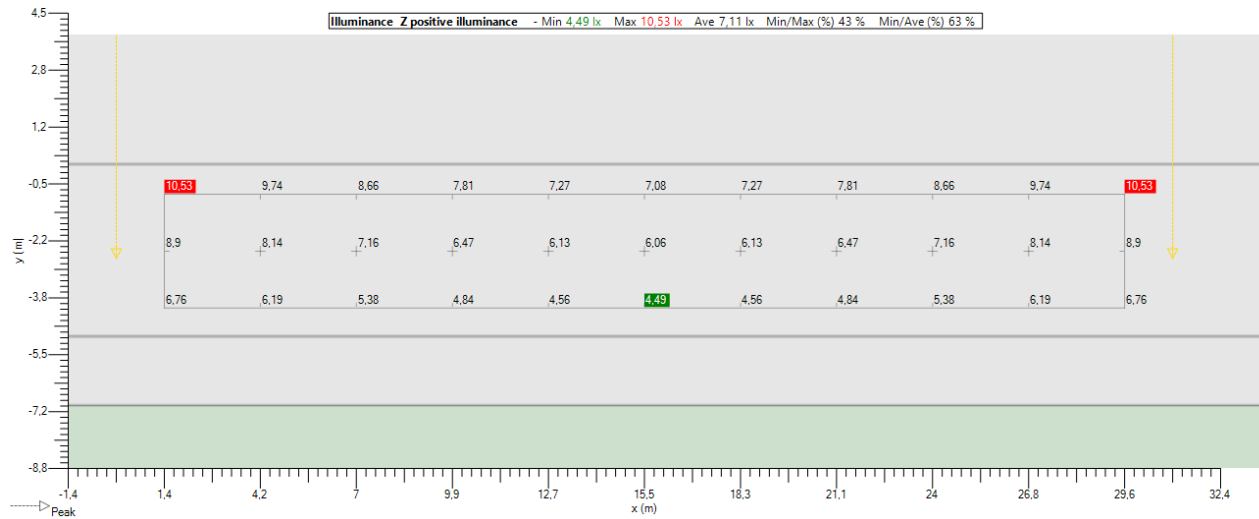


Shading

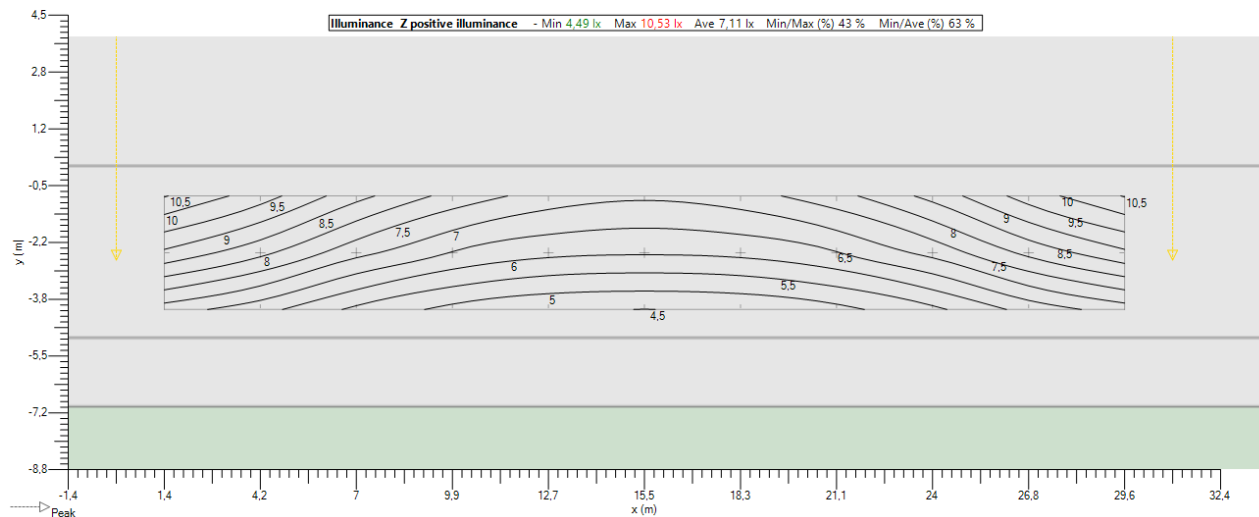


4.8. Parkoviště 2 (IL) - Z positive

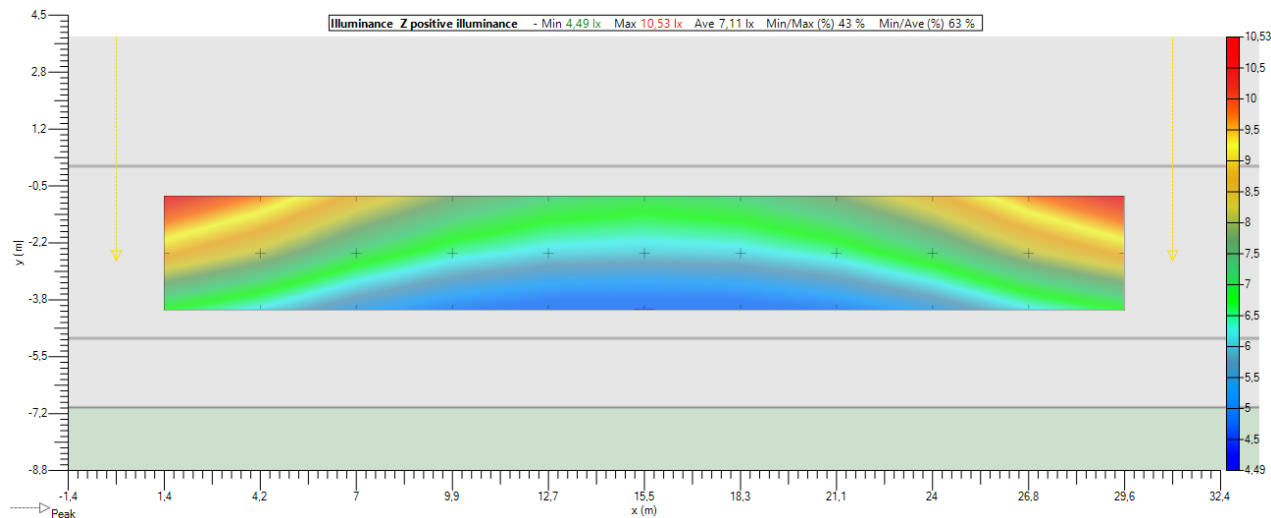
Values



Isolevel

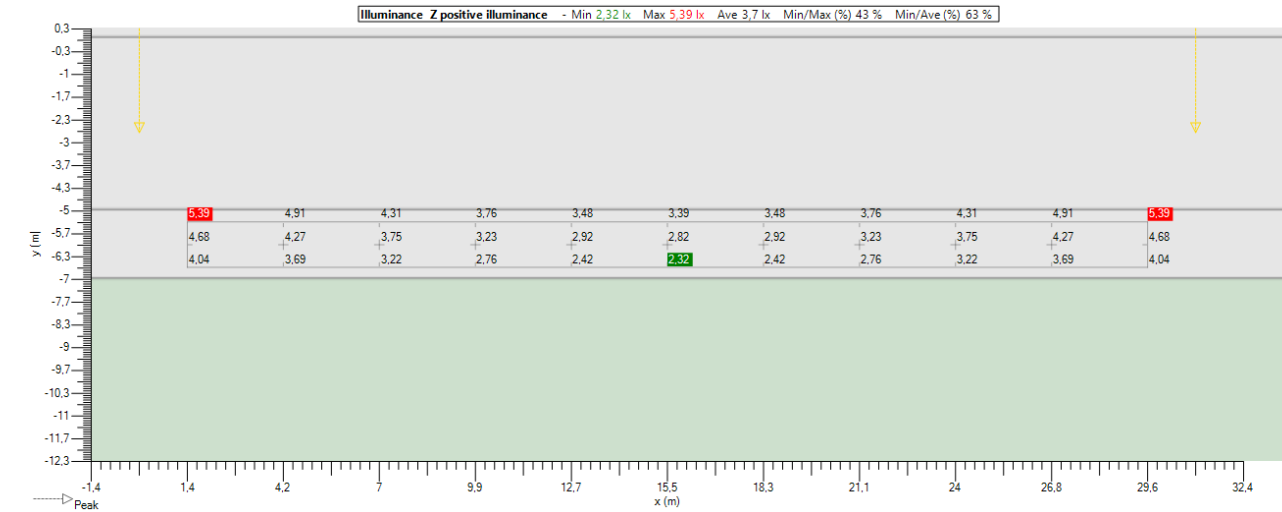


Shading

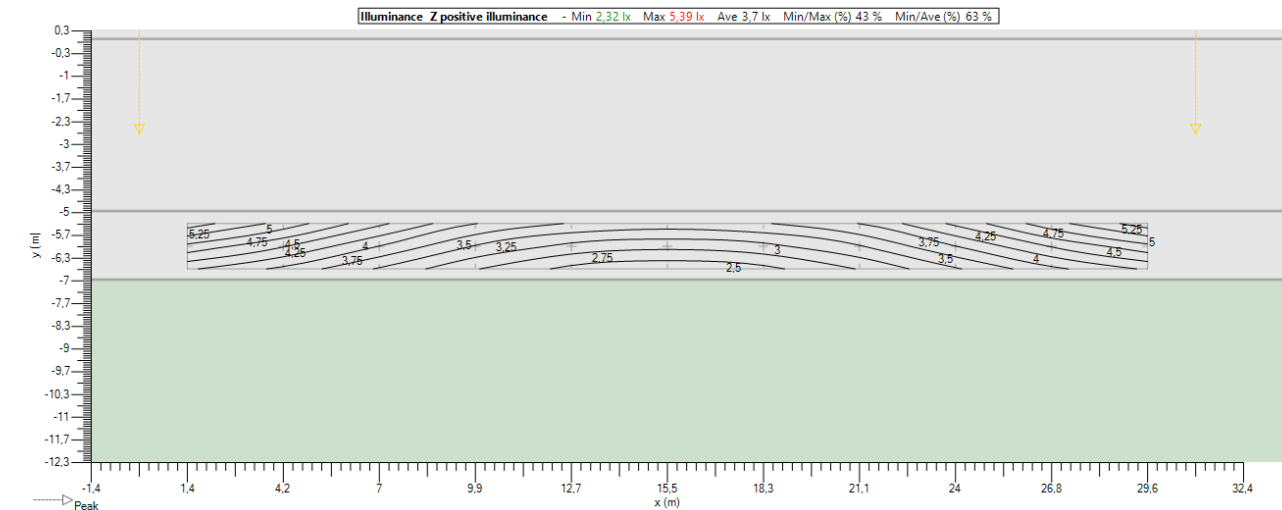


4.9. Chodník 2 (IL) - Z positive

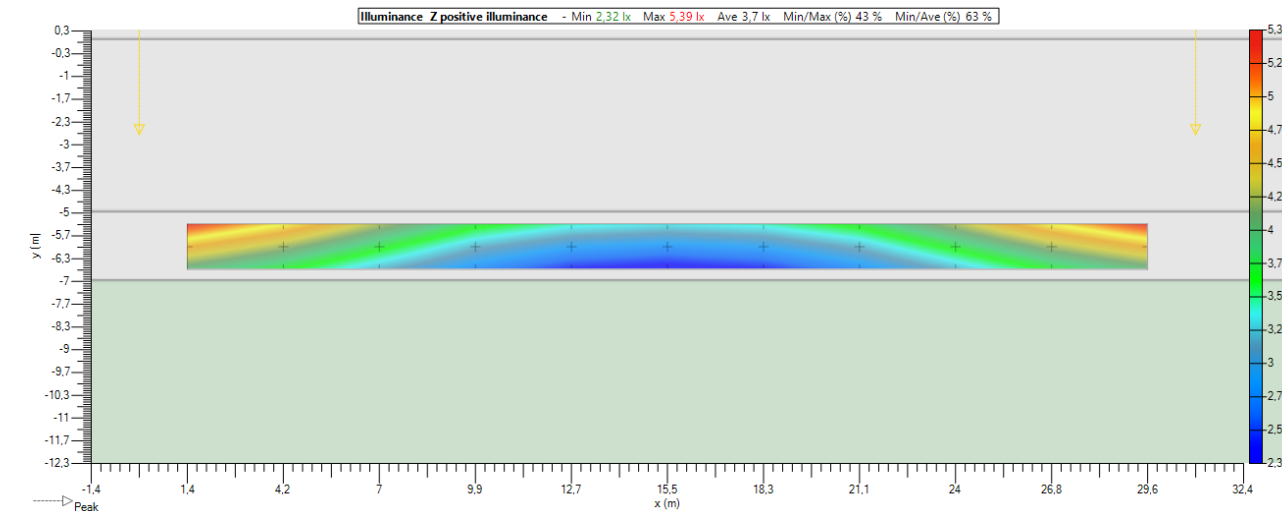
Values



Isolevel

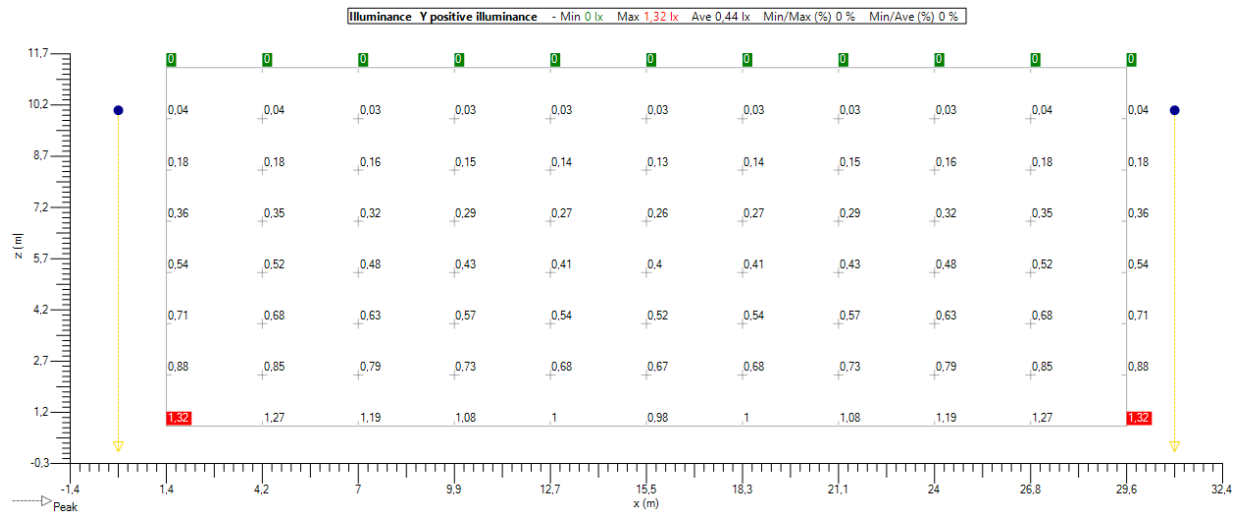


Shading

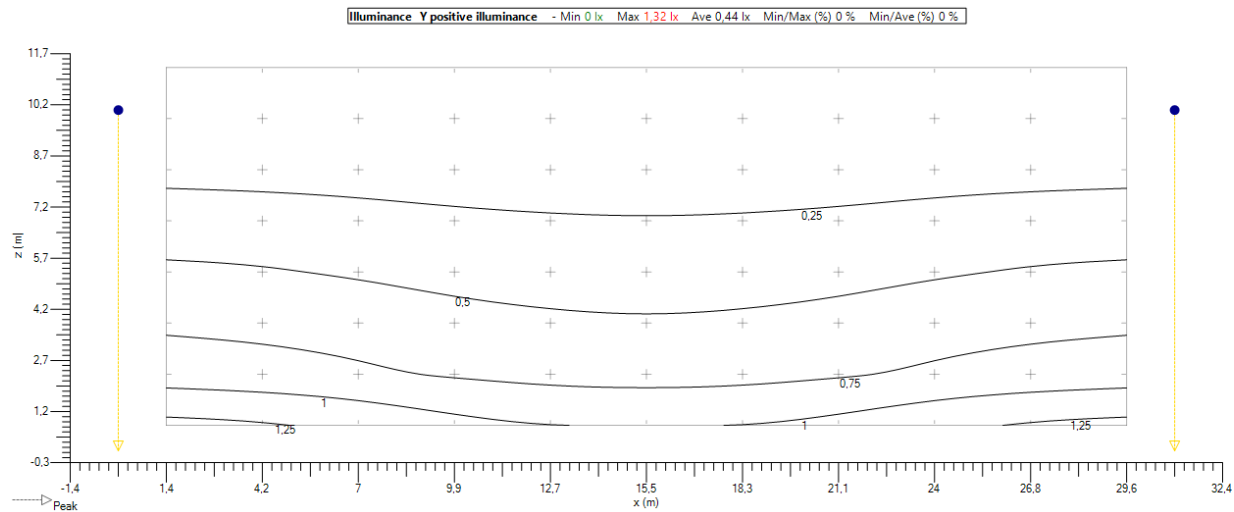


4.10. Fasáda 2 (IL) - Y positive

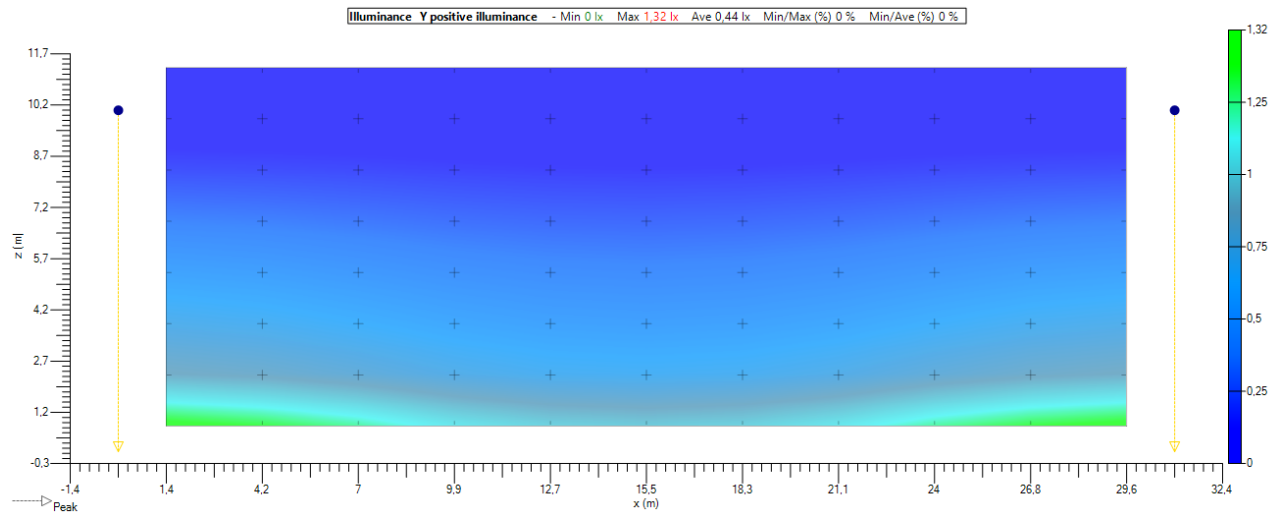
Values



Isolevel




Shading



5. Grids

5.1. Fasáda 1 (IL)

General


Type Grid rectangular XZ
Enabled ☒
Colour 

Geometry

Origin	X 1,41 m	Y 19,40 m	Z 0,75 m
Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Dimension	Count X 11	Count Z 8	
	Spacing X 2,82 m	Spacing Z 1,50 m	
	Size X 28,18 m	Size Z 10,50 m	

5.2. Chodník 1 (IL)

General


Type Grid rectangular XY
Enabled ☒
Colour 

Geometry

Origin	X 1,41 m	Y 8,92 m	Z 0,00 m
Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Dimension	Count X 11	Count Y 3	
	Spacing X 2,82 m	Spacing Y 0,83 m	
	Size X 28,18 m	Size Y 1,67 m	

5.3. Parkoviště 1 (IL)

General


Type Grid rectangular XY
Enabled ☒
Colour 

Geometry

Origin	X 1,41 m	Y 4,75 m	Z 0,00 m
Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Dimension	Count X 11	Count Y 3	
	Spacing X 2,82 m	Spacing Y 1,50 m	
	Size X 28,18 m	Size Y 3,00 m	

5.4. Silnice (LU)

General

Type Grid rectangular XY
Enabled ☒
Colour 


Geometry

Origin	X 1,41 m	Y 0,67 m	Z 0,00 m
Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Dimension	Count X 11	Count Y 3	
	Spacing X 2,82 m	Spacing Y 1,33 m	
	Size X 28,18 m	Size Y 2,67 m	

5.5. Silnice (IL)


General

Geometry

Type Grid rectangular XY	Origin	X 1,41 m	Y 0,67 m	Z 0,00 m
Enabled <input checked="" type="checkbox"/>	Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Colour 	Dimension	Count X 11	Count Y 3	
		Spacing X 2,82 m	Spacing Y 1,33 m	
		Size X 28,18 m	Size Y 2,67 m	

5.6. Parkoviště 2 (IL)

General


Type Grid rectangular XY
Enabled <input checked="" type="checkbox"/>
Colour 

Geometry

Origin	X 1,41 m	Y -4,17 m	Z 0,00 m
Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Dimension	Count X 11	Count Y 3	
	Spacing X 2,82 m	Spacing Y 1,67 m	
	Size X 28,18 m	Size Y 3,33 m	

5.7. Chodník 2 (IL)

General


Type Grid rectangular XY
Enabled <input checked="" type="checkbox"/>
Colour 

Geometry

Origin	X 1,41 m	Y -6,67 m	Z 0,00 m
Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Dimension	Count X 11	Count Y 3	
	Spacing X 2,82 m	Spacing Y 0,67 m	
	Size X 28,18 m	Size Y 1,33 m	

5.8. Fasáda 2 (IL)

General

Type Grid rectangular XZ
Enabled <input checked="" type="checkbox"/>
Colour 

Geometry

Origin	X 1,41 m	Y -13,00 m	Z 0,75 m
Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Dimension	Count X 11	Count Z 8	
	Spacing X 2,82 m	Spacing Z 1,50 m	
	Size X 28,18 m	Size Z 10,50 m	