

Štítary - Větrná, VO

Standard EN 13201:2015

Designer rs

Study # OP0045022

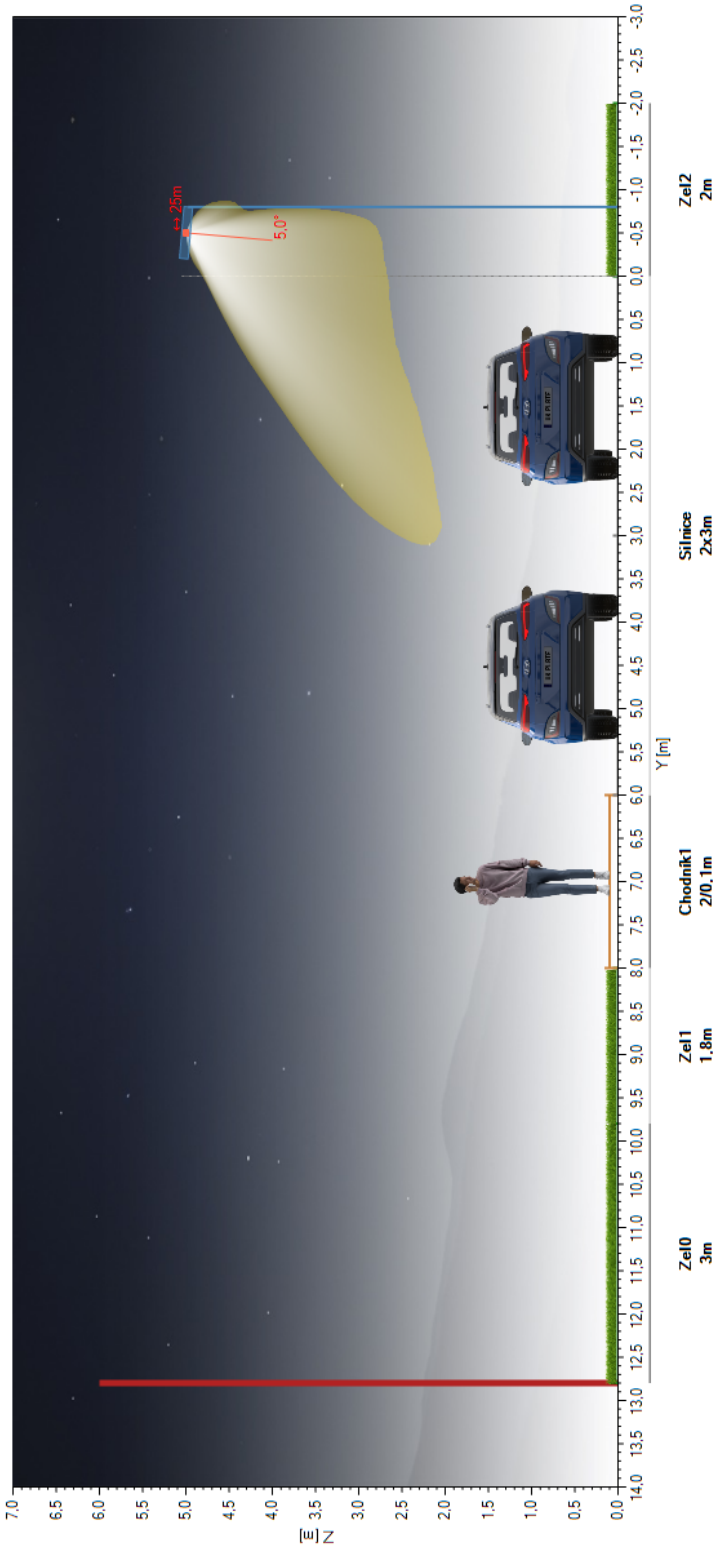
Date 15.08.2025

Application Ulysse 4.1.2

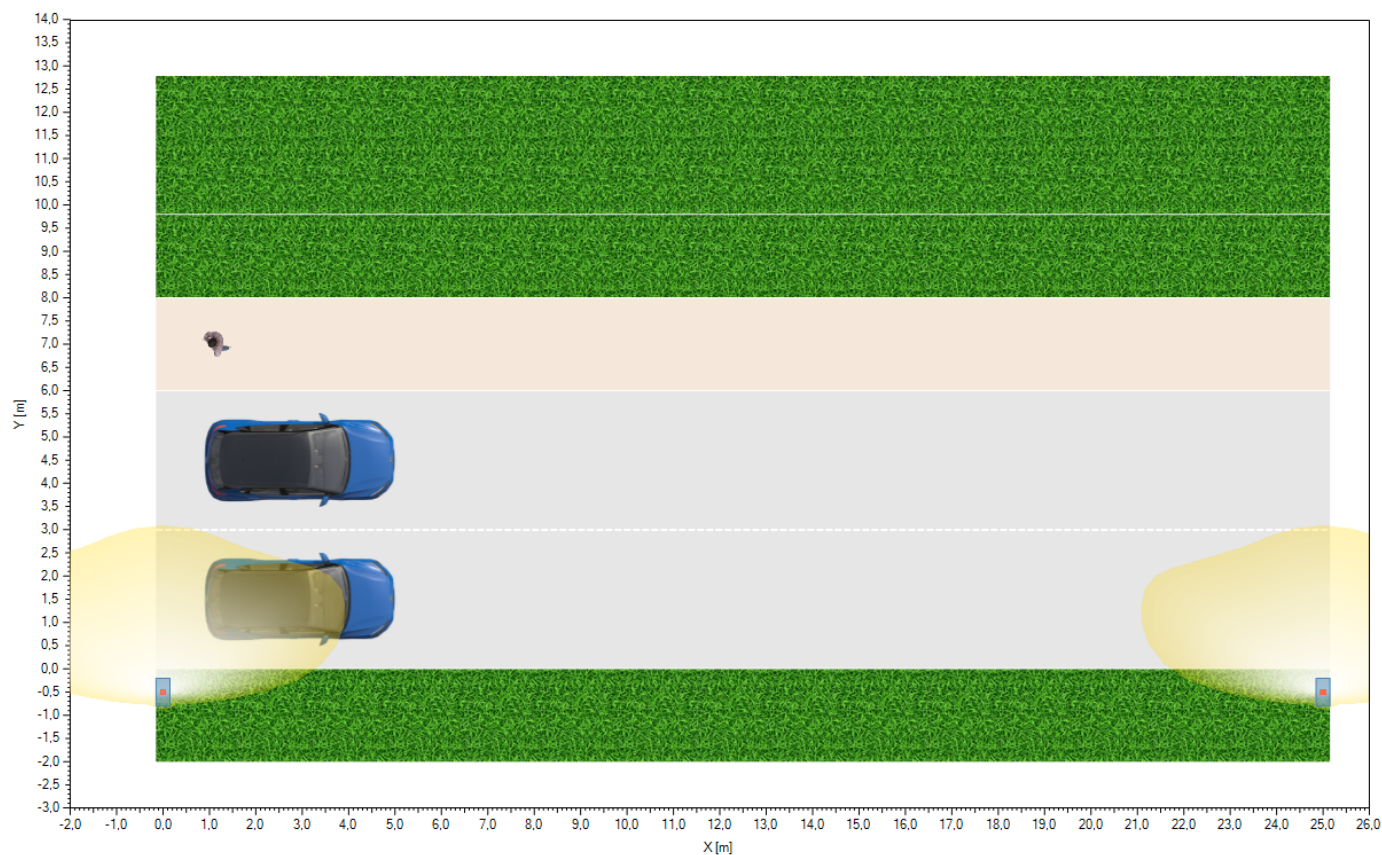
File Výpočet VO.lp3

1 2D View

1.1 Cross section



1.2 Top view



2 Fixtures

2.1 IZYLUM 1 10 LEDs 450mA (LED) WW727 Flat glass 5308 LE, BLD 450852

Type IZYLUM 1

Reflector 5308

Source 10 LEDs 450mA (LED) WW727

Protector Flat glass

Source flux 2,202 klm

G* 4

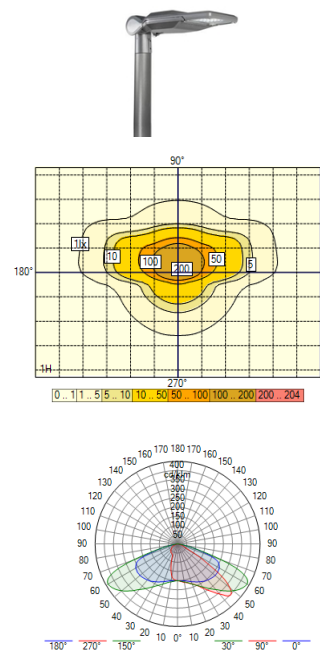
Luminaire wattage 15,4 W

MF 0,85

Matrix 450852

Luminaire flux 1,772 klm

Efficacy 115 lm/W



3 Results

3.1 Grid summary

Note: below grids are calculated with initial luminous flux (MF=1)

Fasády (IL) - MF=1

ČSN_360459 Ev max(x,z) (IL : Max = 5,00 lux)

| 1. Normal illuminance | Ave (A) (lx) | Min/Ave (%) | Min/Max (%) | Min (lx) | Max (lx) |
|-----------------------|--------------|-------------|-------------|----------|----------|
| Dynamic cross section | 0,19 | 0 | 0 | 0,00 | 0,59 |



Note: below grids are calculated with maintained luminous flux (MF applied)

Chodník1 (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 | 2,55 | 47 | 21 | 1,19 | 5,67 |



Silnice (IL)

P4 (IL : Min = 1,00 lux Ave = 5,00 lux)

| 1. Z positive illuminance | Ave (A) (lx) | Min/Ave (%) | Min/Max (%) | Min (lx) | Max (lx) |
|---------------------------|--------------|-------------|-------------|----------|----------|
| Dynamic cross section | 6,11 | 33 | 14 | 2,02 | 14,17 |




4 Dynamic cross section

4.1 Matrix description

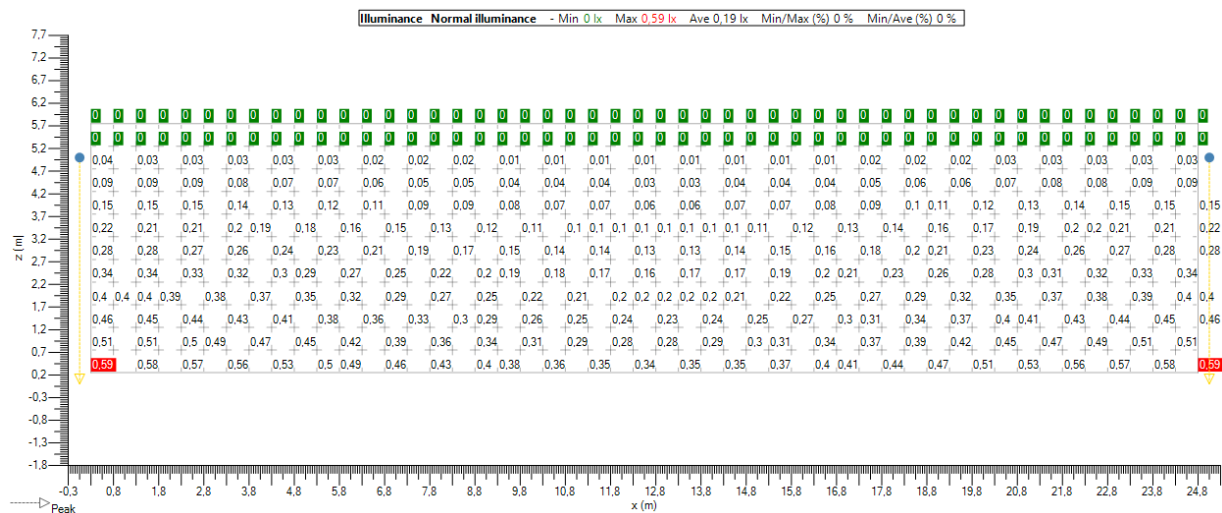
| Photometric colour | Description | Current [mA] | Source flux [klm] | Luminaire flux [klm] | Power [W] | Efficacy [lm/W] | MF | Height [m] | Fixture |
|--------------------|---|--------------|-------------------|----------------------|-----------|-----------------|-------|------------|---------|
| | IZYLUM 1 10 LEDs 450mA (LED) WW727 Flat glass 5308 LE, BLD 450852 | 450 | 2,202 | 1,772 | 15,4 | 115 | 0,850 | 5 x 5,00 | |

4.2 Luminaire groups

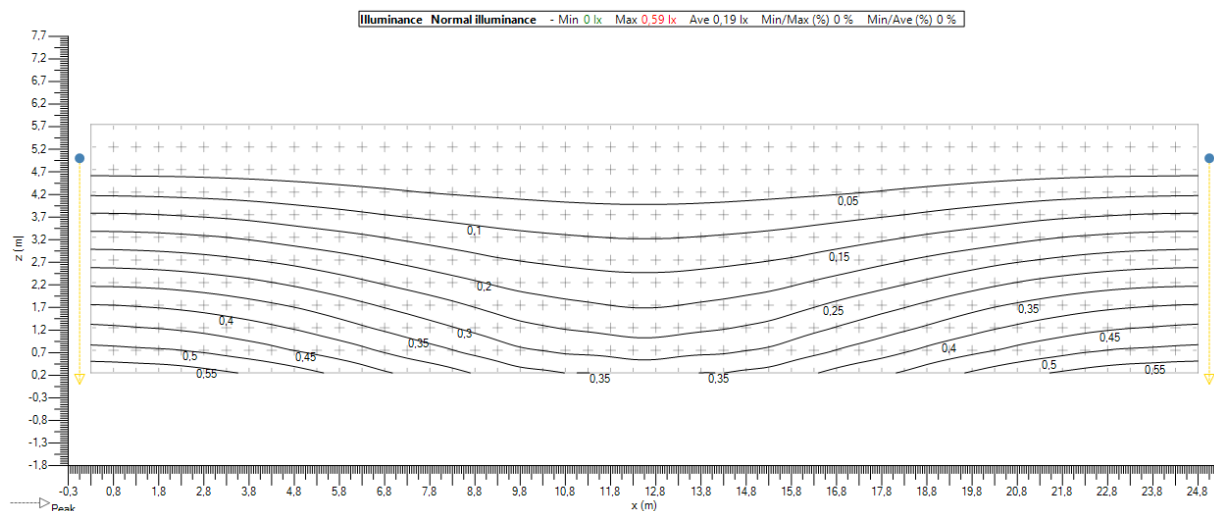
| Linear | | | | | | | | | | | | | | | | |
|-------------------------------------|---|----|----------|-------|-------|-----------|---------|-----------|----------|---------|-----------|-------------|----------|----------|-------|-------|
| | Colour | N° | Position | | | Luminaire | | | | | Dimension | | | 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 | -25,00 | -0,50 | 5,00 | Sloupy VO | 0,0 | 5,0 | 0,0 | 100 | 5 | 25,00 | 100,00 | 0,0 | 0,0 | 0,0 |

4.3 Fasády (IL) - Normal

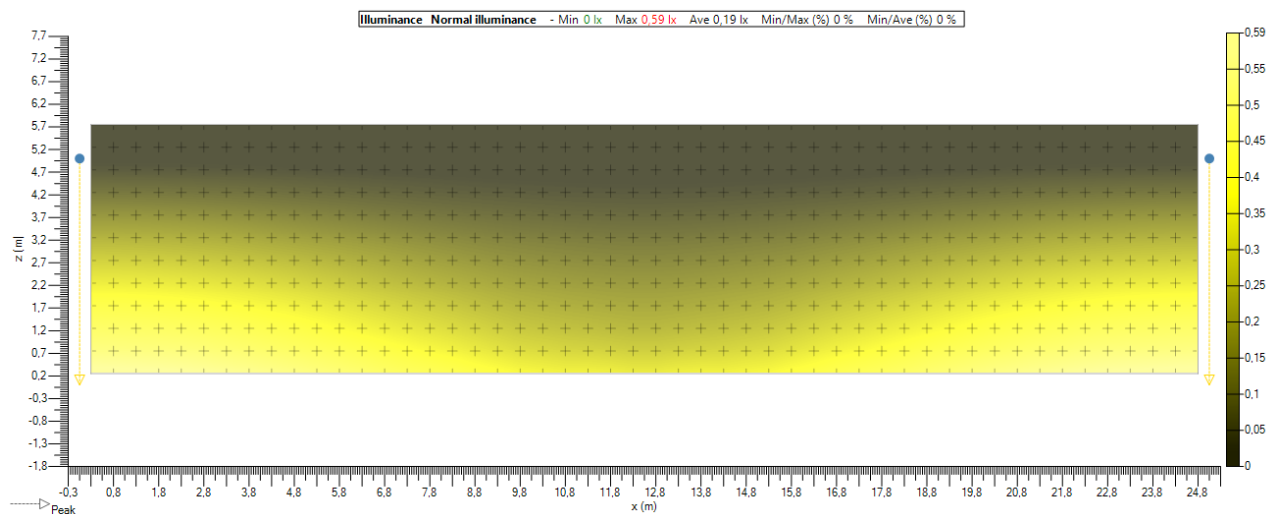
Values



Isolevel

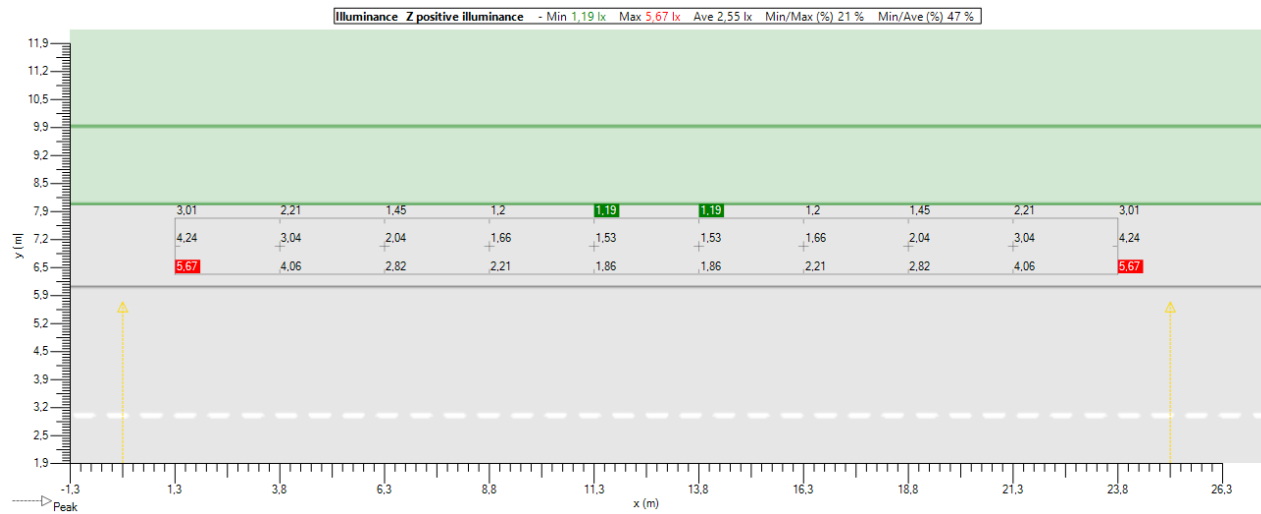


Shading

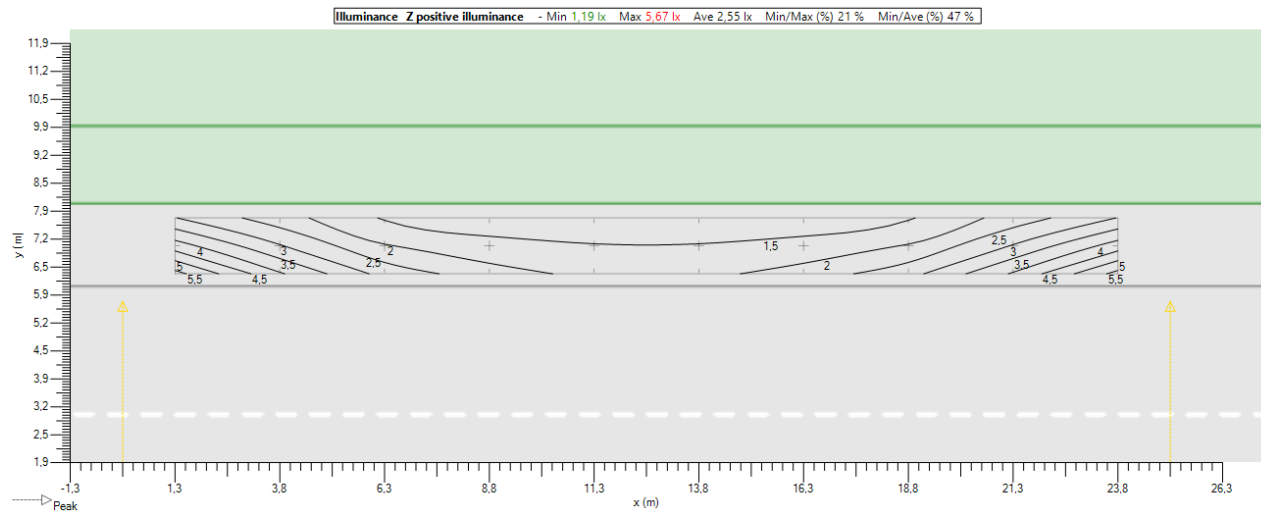


4.4 Chodník1 (IL) - Z positive

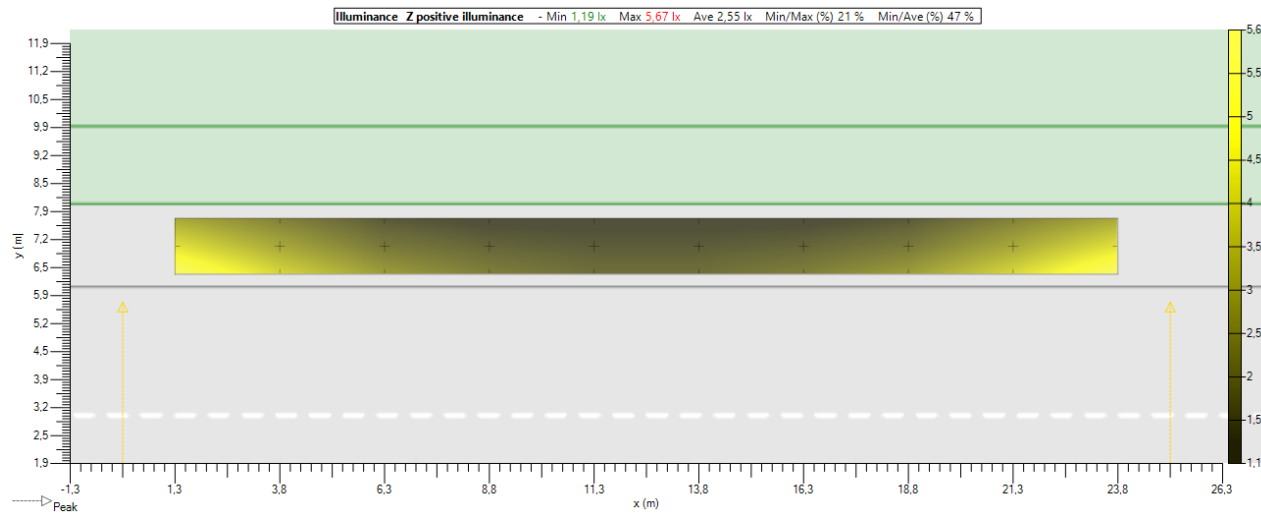
Values



Isolevel

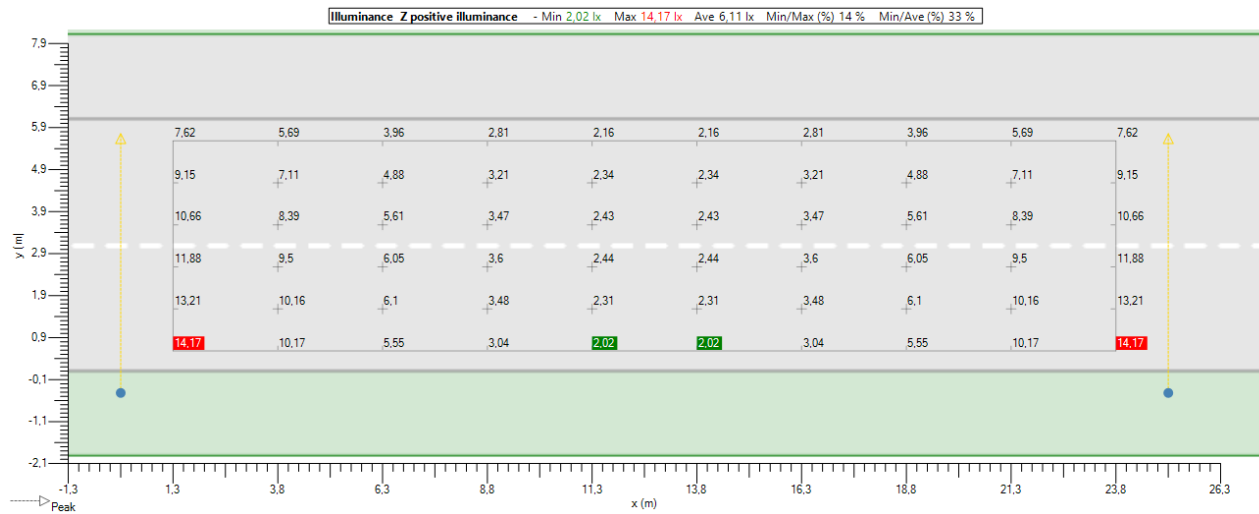


Shading

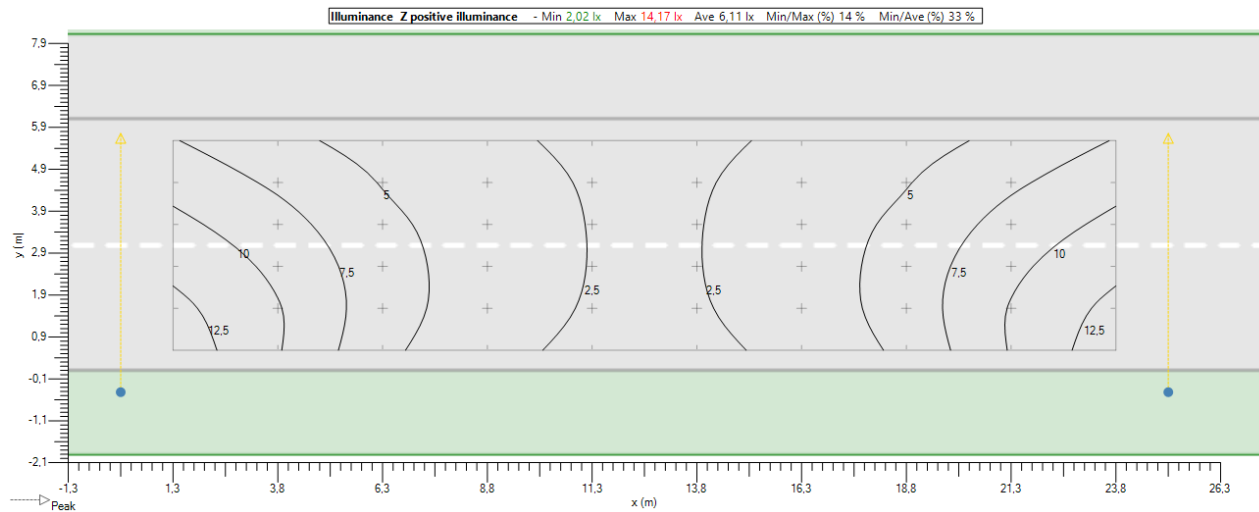


4.5 Silnice (IL) - Z positive

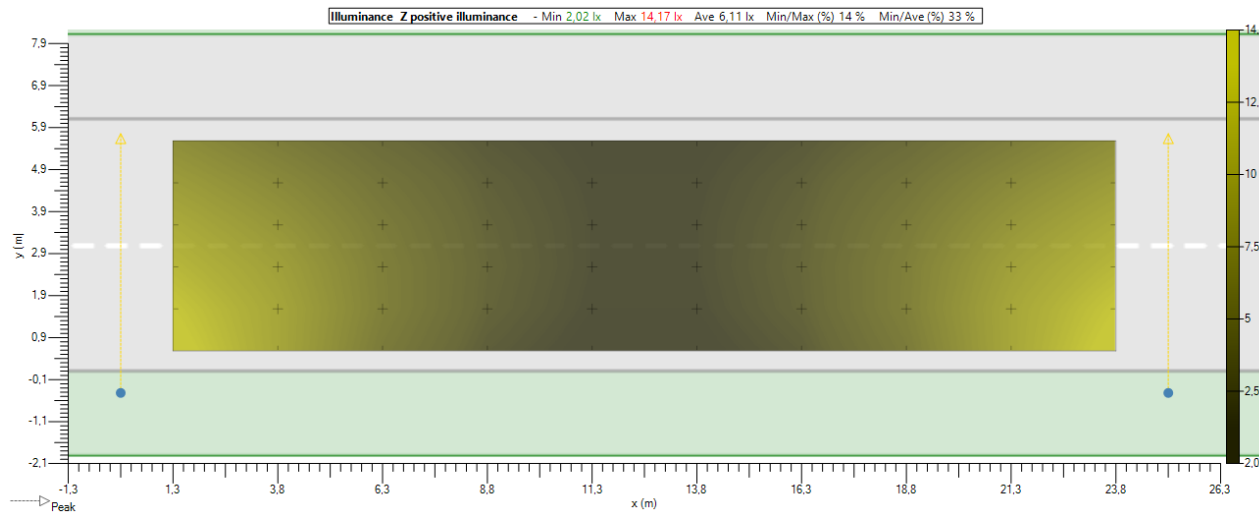
Values



Isolevel



Shading



5 Grids

5.1 Fasády (IL)

General

Type

Grid rectangular XZ

Enabled

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Colour

Geometry

Origin

X

0,25 m

Y

12,80 m

Z

0,25 m

Rotation

X

0,0 °

Y

0,0 °

Z

0,0 °

Dimension

Count X

50

Count Z

12

Spacing X

0,50 m

Spacing Z

0,50 m

Size X

24,50 m

Size Z

5,50 m

5.2 Chodník1 (IL)

General

Type

Grid rectangular XY

Enabled

☒

Colour

Geometry

Origin

X

1,25 m

Y

6,33 m

Z

0,10 m

Rotation

X

0,0 °

Y

0,0 °

Z

0,0 °

Dimension

Count X

10

Count Y

3

Spacing X

2,50 m

Spacing Y

0,67 m

Size X

22,50 m

Size Y

1,33 m

5.3 Silnice (IL)

General

Type

Grid rectangular XY

Enabled

☒

Colour

Geometry

Origin

X

1,25 m

Y

0,50 m

Z

0,00 m

Rotation

X

0,0 °

Y

0,0 °

Z

0,0 °

Dimension

Count X

10

Count Y

6

Spacing X

2,50 m

Spacing Y

1,00 m

Size X

22,50 m

Size Y

5,00 m