



Ulysse 3



Verzuolo

(CEN 13201 : 2015)



Designer : a.dovetta

Study # :

Project # :

Date : 18/10/2018

Estensione rete IP su SP8 tratto compreso da rotatoria Villanovetta /Piasco - Strada San Rocco (P.to luce esistente 28001)

Alpi Acque S.p.A.
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Savigliano (CN)

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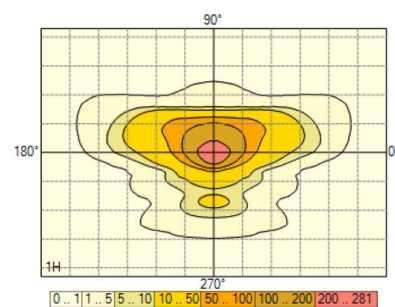
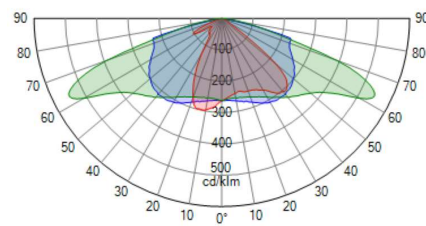
1. Fixtures

1.1. AXIA 2.2 48 LEDs 890mA WW Integrated lenses 5221 397662



Type	AXIA 2.2
Reflector	5221
Source	48 LEDs 890mA WW
Protector	Integrated lenses
Setting	
Source flux	15,9 klm
G-Class	4

Luminaire wattage	134,0 W
Source wattage	134,0 W
Efficacy	108 lm/W
Luminaire flux	14,492 klm
MF	0,85
Matrix	397662

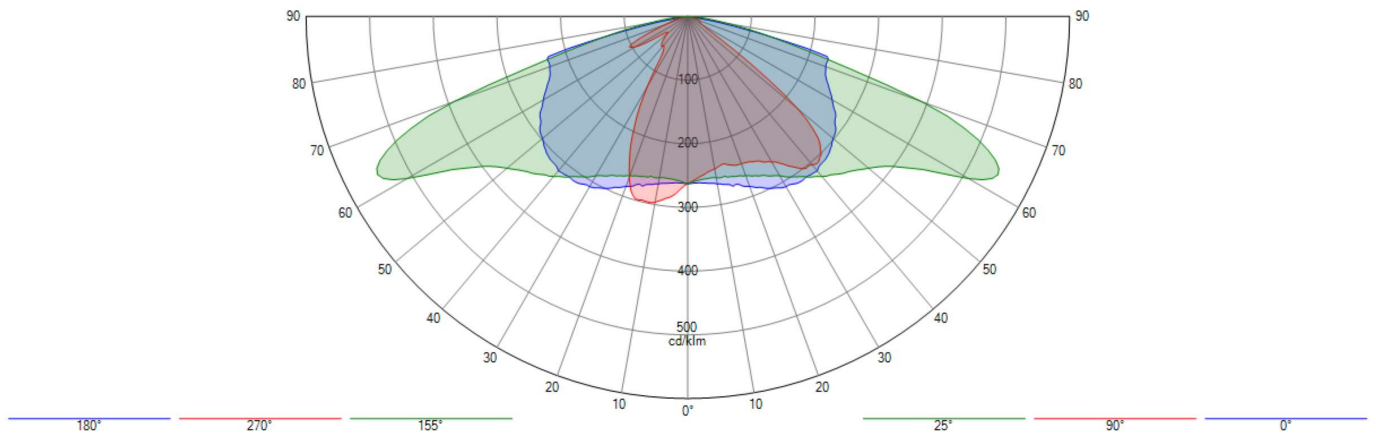


2. Photometric documents

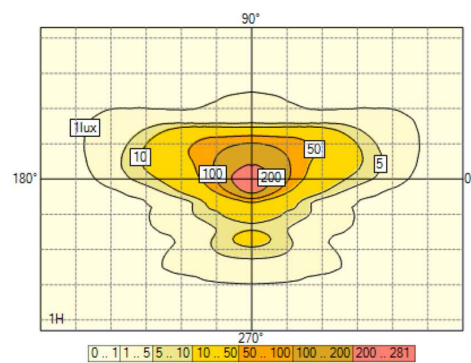
2.1. AXIA 2.2 48 LEDs 890mA WW Integrated lenses 5221 397662

397662

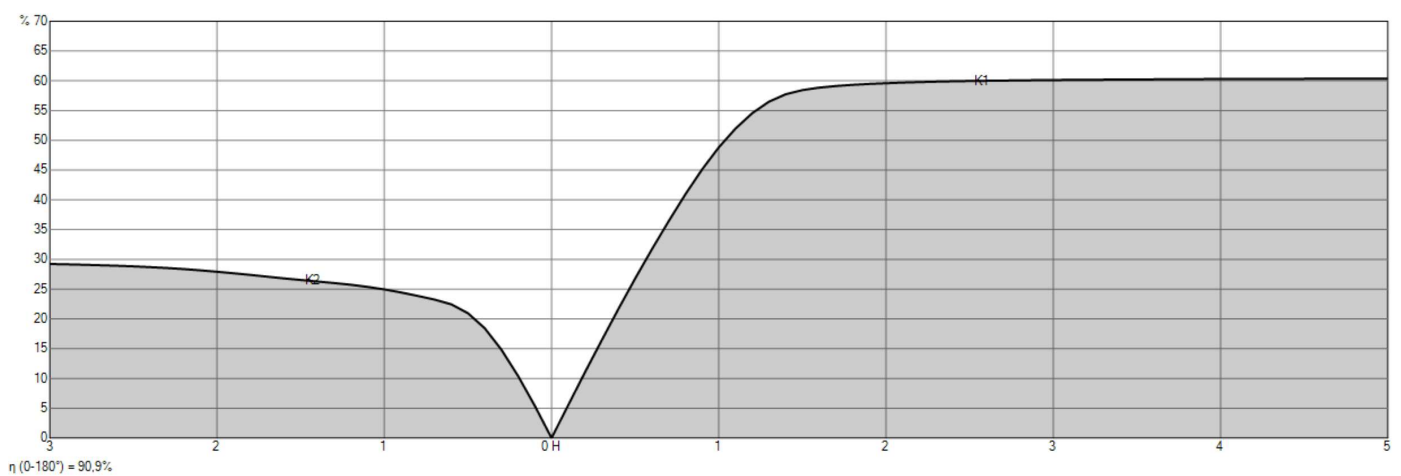
Polar/Cartesian diagram



Isolux



Utilization curve



3. Standard

3.1. Standard summary

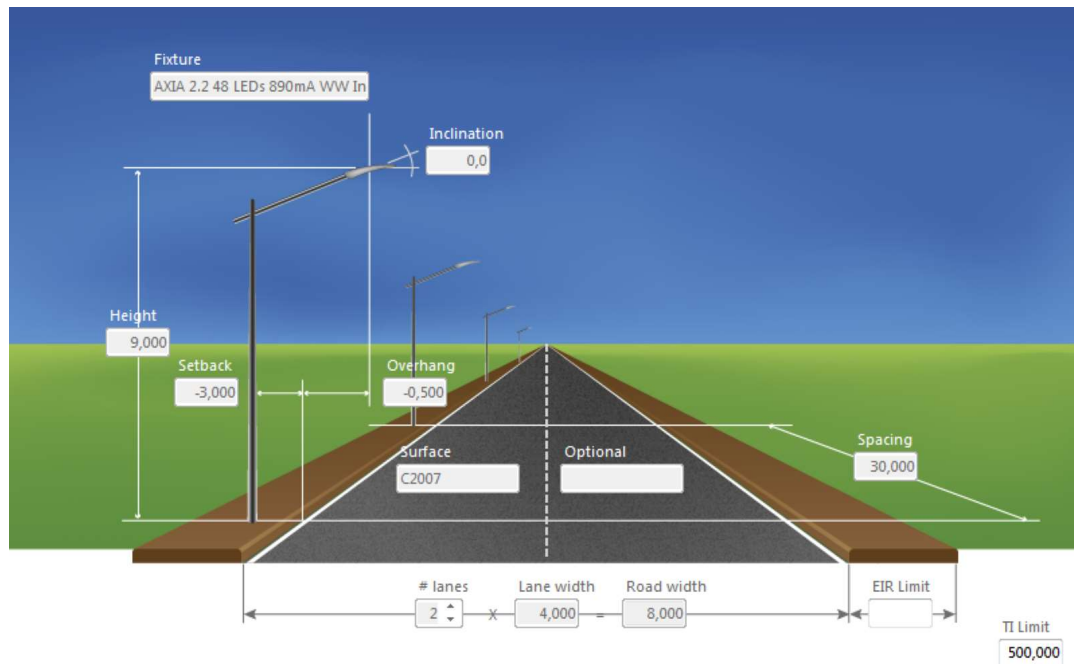
Calculations according to : CEN 13201 : 2015

Selected lighting class : M2

Constraints : LU : Ave = 1,50 cd/m² Uo = 40 % UI = 70 % UoW = 15 % TI : 10 EIR : 0,35

Selected lighting class (HS) : -

Constraints (HS) : -



3.2. Results

Power per km : 4,467 kW

- Road (LU) - M2

Luminance



Ave	1,58 cd/m ²	✓	1,50 cd/m ²
Min	0,92 cd/m ²	NA	
Uo	55 %	✓	40,00 %
UI 1	88 %	✓	70,00 %
UI 2	81 %	✓	70,00 %

- Values - M2

EIR	0,54	✓	0,35
TI	9	✓	10

4. Default

4.1. Matrix description

Ph. color	Matrix	Description	Source flux [klm]	Luminaire flux [klm]	Efficacy [lm/W]	MF	Height	Fixture
	397662	AXIA 2.2 48 LEDs 890mA WW Integrated lenses 5221	15,949	14,492	108	0,850	6 x 9,00	

4.2. Luminaire positions

	N°	Position			Luminaire							Target		
		X [m]	Y [m]	Z [m]	Matrix	Description	Az [°]	Incl [°]	Rot [°]	Flux [klm]	MF	X [m]	Y [m]	Z [m]
<input checked="" type="checkbox"/>	1	-30,00	8,50	9,00	397662	AXIA 2.2 48 LEDs 890mA WW Integrated lenses ...	180,0	0,0	0,0	15,949	0,850	-30,00	8,50	0,00
<input checked="" type="checkbox"/>	2	0,00	8,50	9,00	397662	AXIA 2.2 48 LEDs 890mA WW Integrated lenses ...	180,0	0,0	0,0	15,949	0,850	0,00	8,50	0,00
<input checked="" type="checkbox"/>	3	30,00	8,50	9,00	397662	AXIA 2.2 48 LEDs 890mA WW Integrated lenses ...	180,0	0,0	0,0	15,949	0,850	30,00	8,50	0,00
<input checked="" type="checkbox"/>	4	60,00	8,50	9,00	397662	AXIA 2.2 48 LEDs 890mA WW Integrated lenses ...	180,0	0,0	0,0	15,949	0,850	60,00	8,50	0,00
<input checked="" type="checkbox"/>	5	90,00	8,50	9,00	397662	AXIA 2.2 48 LEDs 890mA WW Integrated lenses ...	180,0	0,0	0,0	15,949	0,850	90,00	8,50	0,00
<input checked="" type="checkbox"/>	6	120,00	8,50	9,00	397662	AXIA 2.2 48 LEDs 890mA WW Integrated lenses ...	180,0	0,0	0,0	15,949	0,850	120,00	8,50	0,00

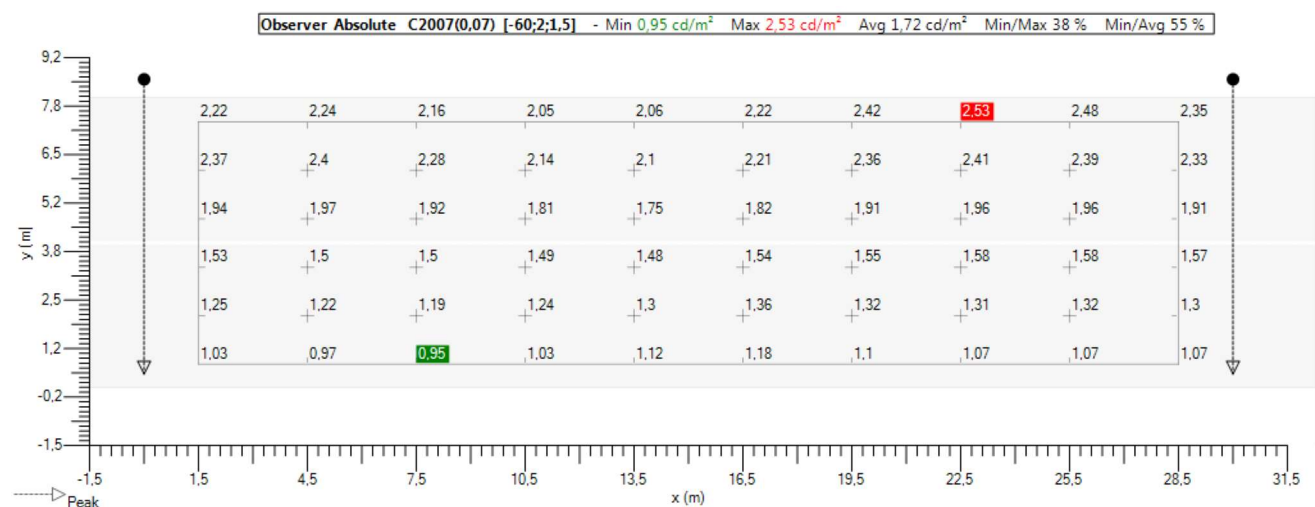
4.3. Luminaire groups

Linear															
	N°	Position			Luminaire					Dimension			Rotation		
		X [m]	Y [m]	Z [m]	Matrix	Az [°]	Incl [°]	Rot [°]	Dim [%]	Count	Spacing [m]	Size [m]	X [°]	Y [°]	Z [°]
<input checked="" type="checkbox"/>	1	-30,00	8,50	9,00	397662	180,0	0,0	0,0	100	6	30,00	150,00	0,0	0,0	0,0

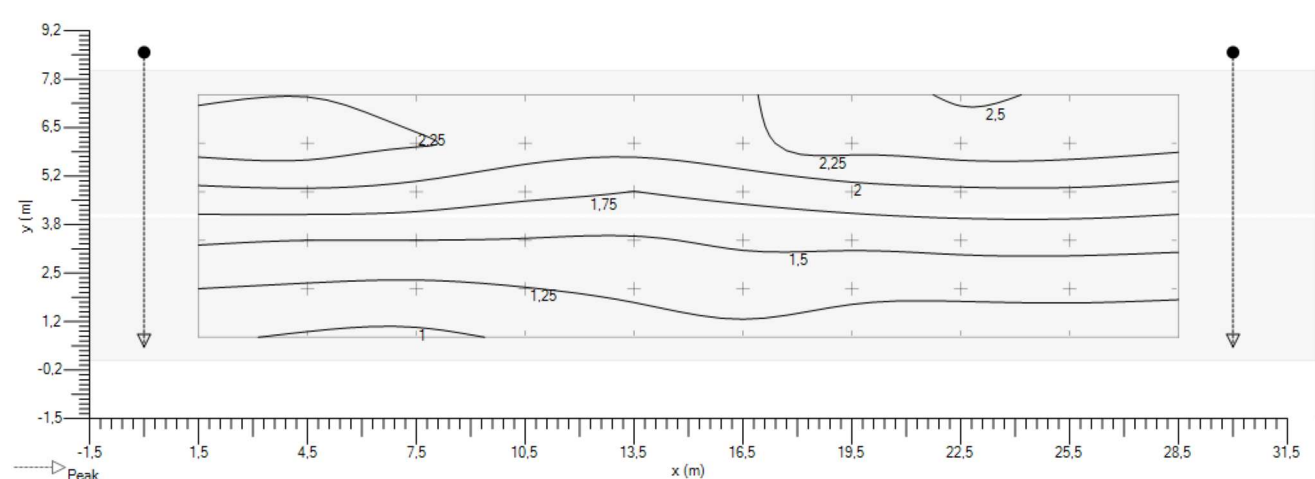
4.4. Road (LU) - C2007 - Luminance

4.4.1. Road (LU) - Luminance - RTable - Observer absolute

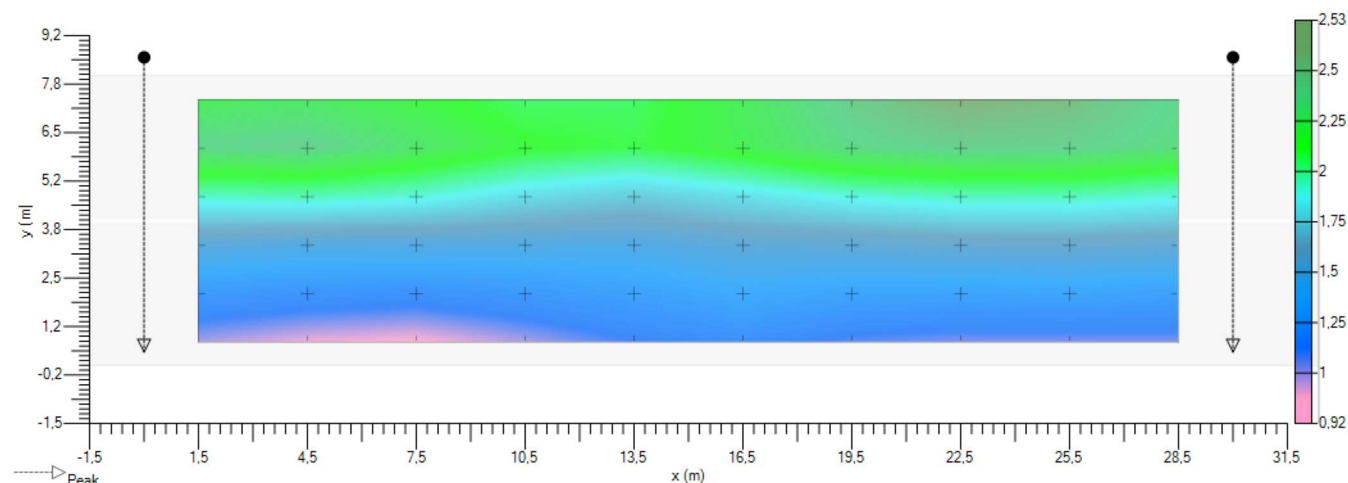
Values



Isolevel

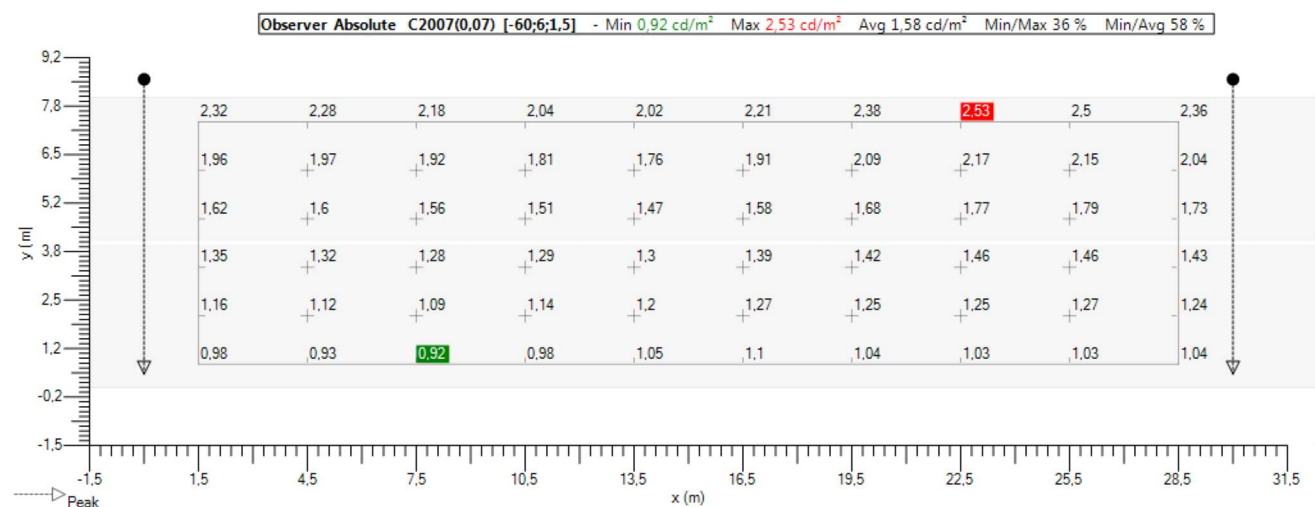


Shading

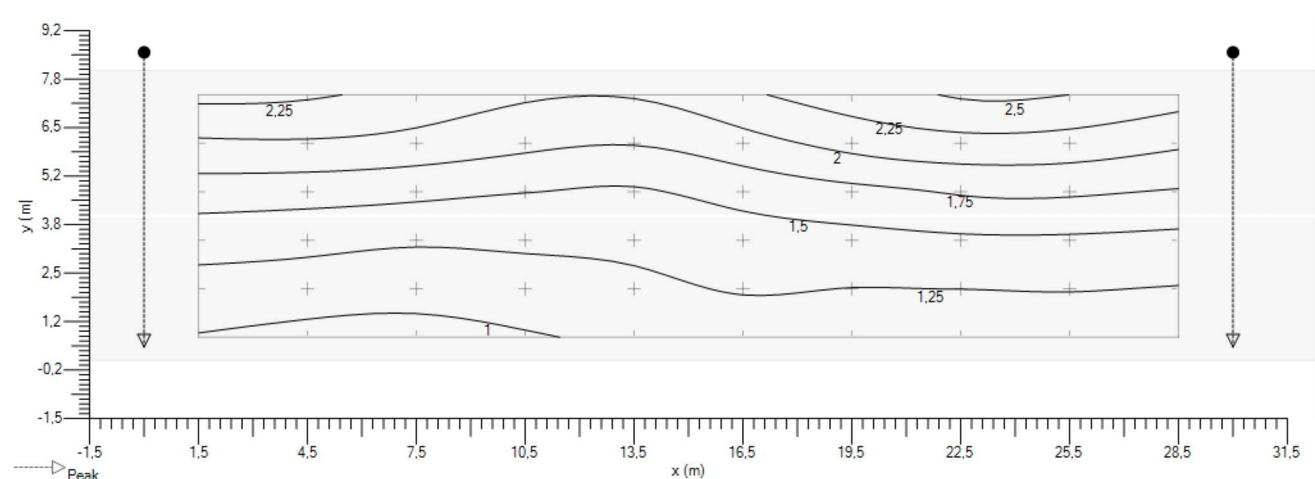


4.4.2. Road (LU) - Luminance - RTable - Observer absolute

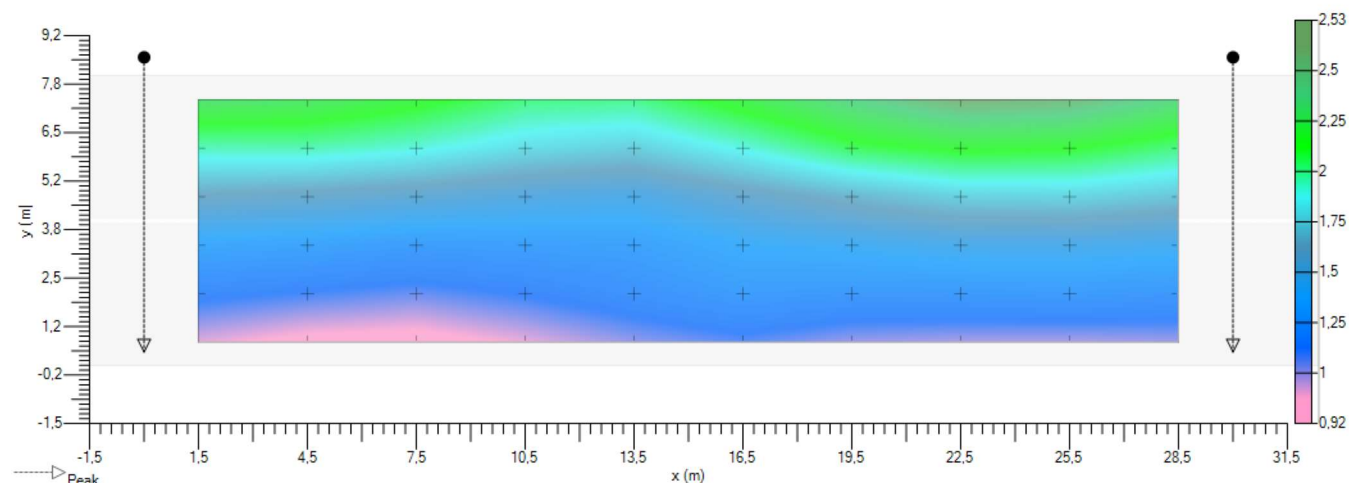
Values



Isolevel

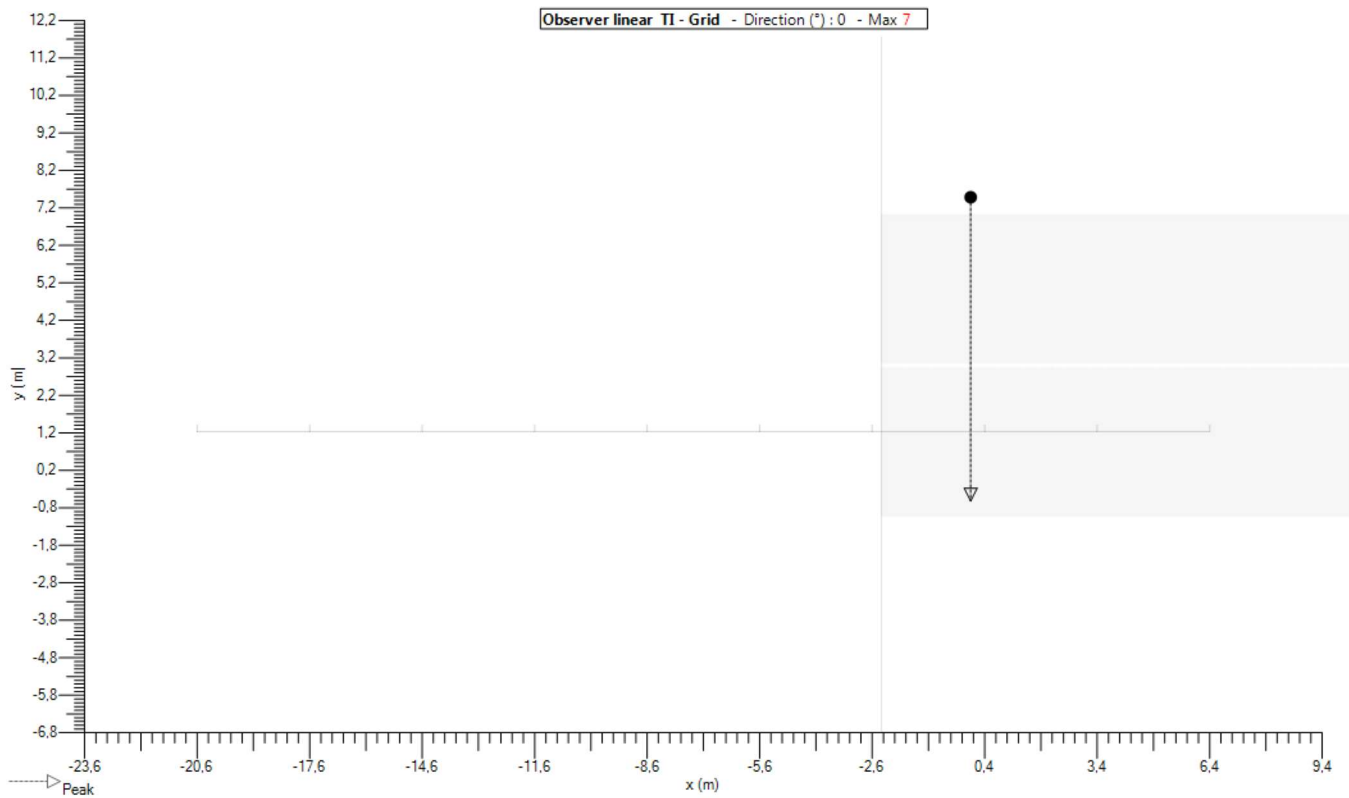


Shading

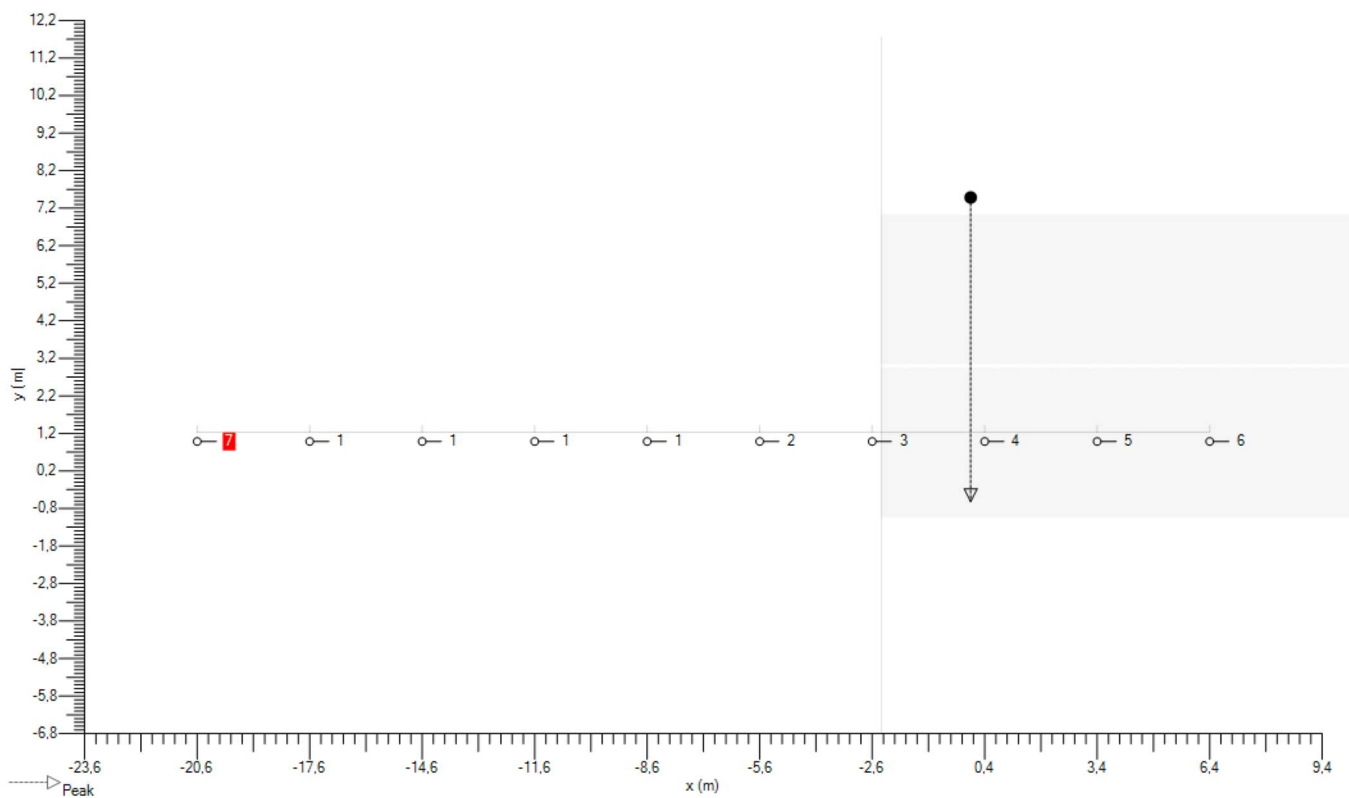


4.5. Road (TI 1) - Observer linear - TI - Grid

Implantation

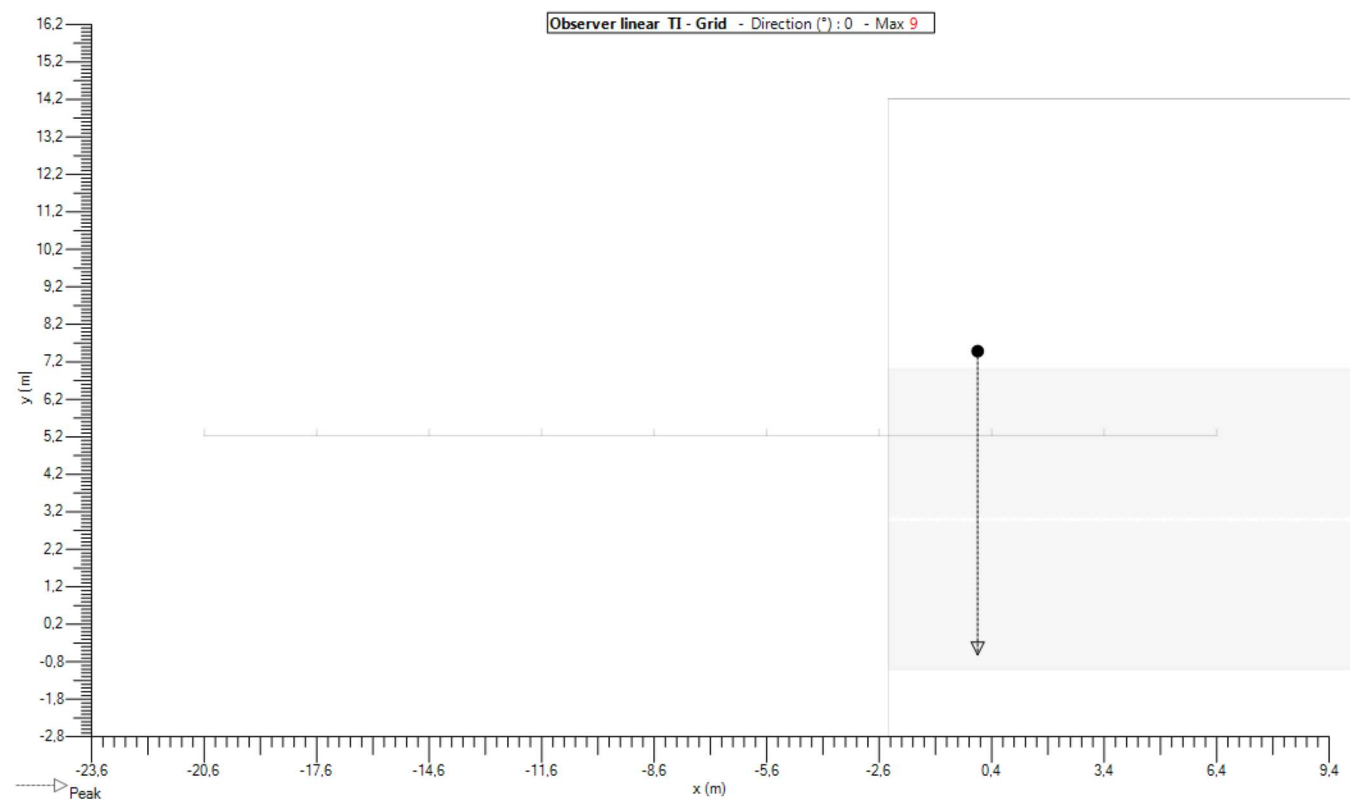


Values

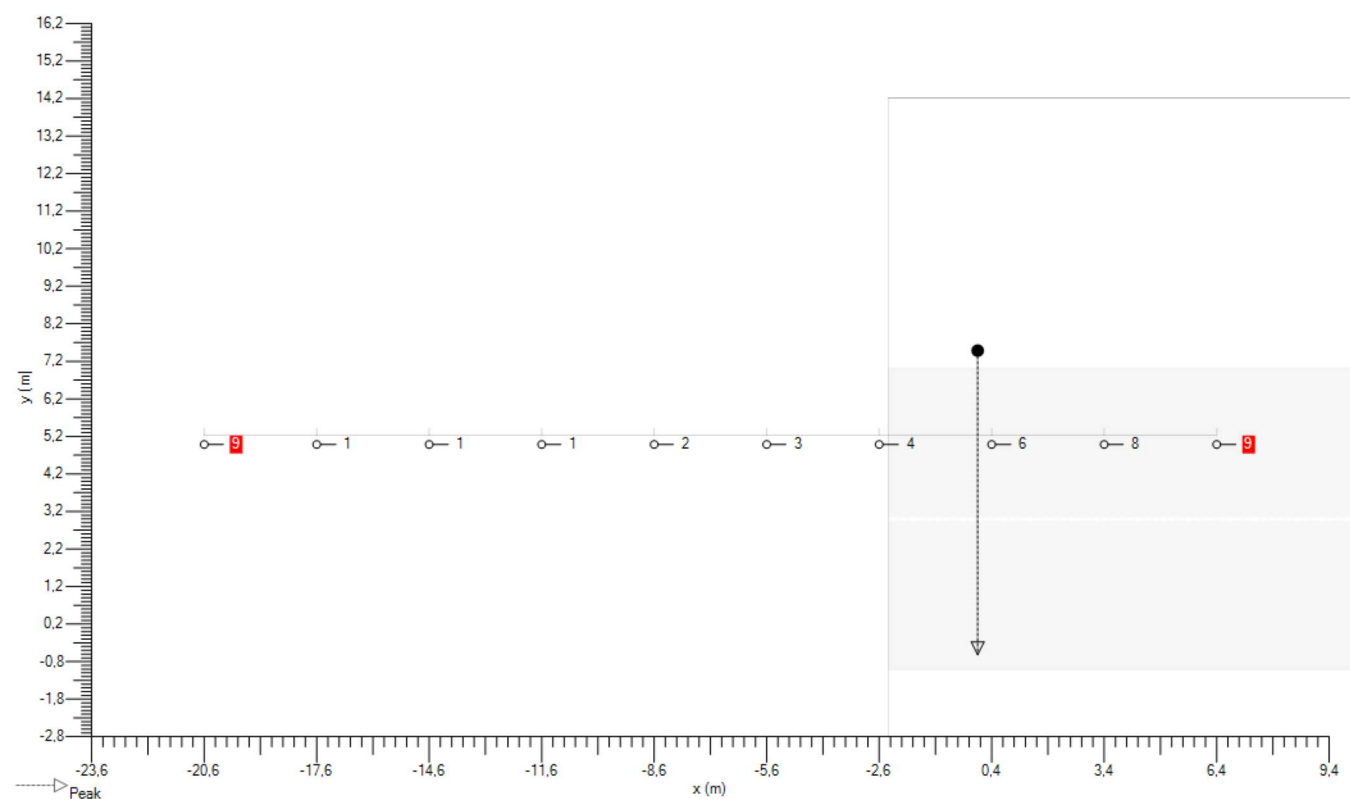


4.6. Road (TI 2) - Observer linear - TI - Grid

Implantation



Values



5. Grids

5.1. Road (LU)

General

Type : Grid rectangular XY

Use Exclusion : -

En : ☒Colour : 

Geometry

Origin

X : Y : Z : m

Rotation

X : Y : Z : °

Dimension


Count X :	<input type="text" value="10"/>	Count Y :	<input type="text" value="6"/>	
Spacing X :	<input type="text" value="3,00"/>	Spacing Y :	<input type="text" value="1,33"/>	m
Size X :	<input type="text" value="27,00"/>	Size Y :	<input type="text" value="6,67"/>	m

6. Observer

6.1. Road (TI 1)

General

Type : Observer linear

En : ☒Color : 

Calculation

Calculation : TI - Grid

Directions : 0,0

Grid : Road (LU)

Geometry

Origin

X : -20,63

Y : 2,00

Z : 1,50 m

Rotation

X : 0,0

Y : 0,0

Z : 0,0 °

Dimension

Count : 10


Spacing : 3,00 m

Size : 27,00 m

6.2. Road (TI 2)

General

Type : Observer linear

En : ☒Color : 

Calculation

Calculation : TI - Grid

Directions : 0,0

Grid : Road (LU)

Geometry

Origin

X : -20,63

Y : 6,00

Z : 1,50 m

Rotation

X : 0,0

Y : 0,0

Z : 0,0 °

Dimension

Count : 10

Spacing : 3,00 m

Size : 27,00 m