

Comune di Quarrata - Via Tiziano

Standard EN 13201 : 2015

Designer Studio Tecnico

Date 18/03/2022

Application Ulysse 3.5.2

Description Verifica Illuminotecnica Via Tiziano

Categoria M3 : strada urbana di quartiere

Teceo 1 32led 900mA 91W ottica 5246

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1. Fixtures

1.1. TECEO GEN2 1 32 LEDs 800mA WW730 Piano, Vetro extra chiaro, Liscio 5246 468662

Type TECEO GEN2 1

Reflector 5246

Source 32 LEDs 800mA WW730

Protector Piano, Vetro extra chiaro, Liscio

Source flux 11,283 klm

G* 2

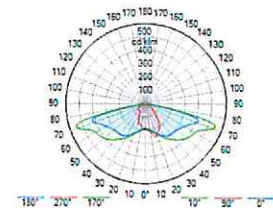
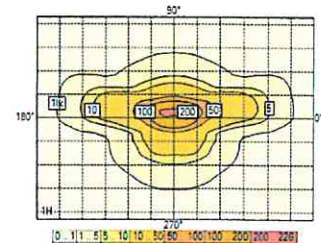
Luminaire wattage 80,0 W

MF 0,80

Matrix 468662

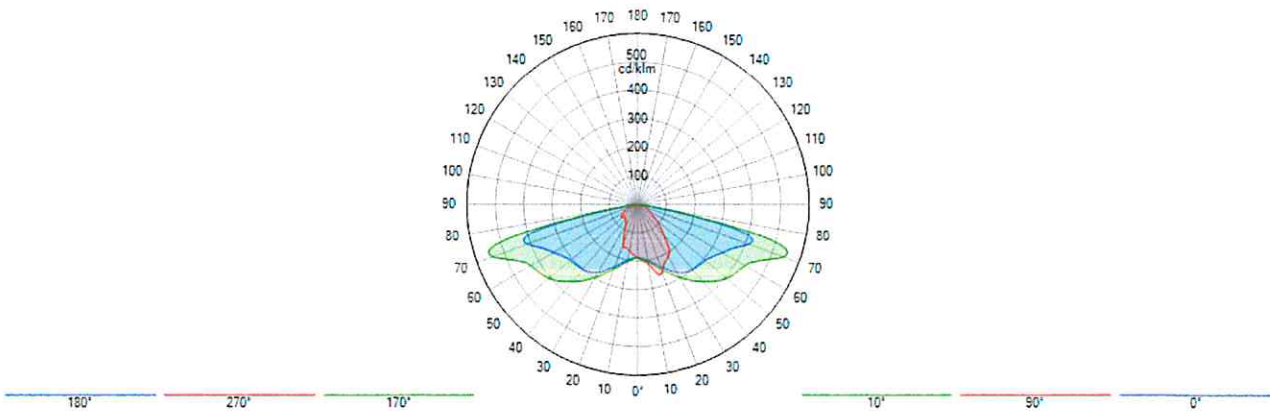
Luminaire flux 8,909 klm

Efficacy 111 lm/W

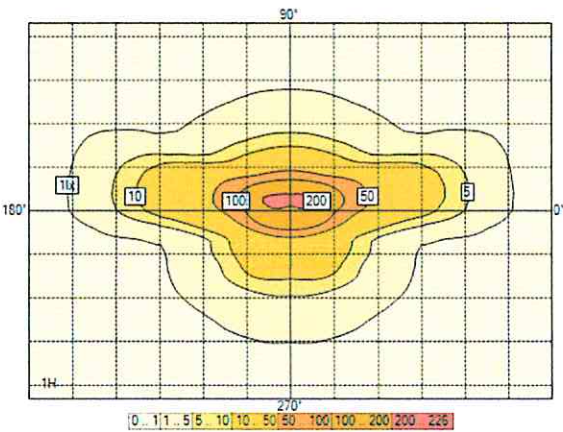


2. Photometric documents

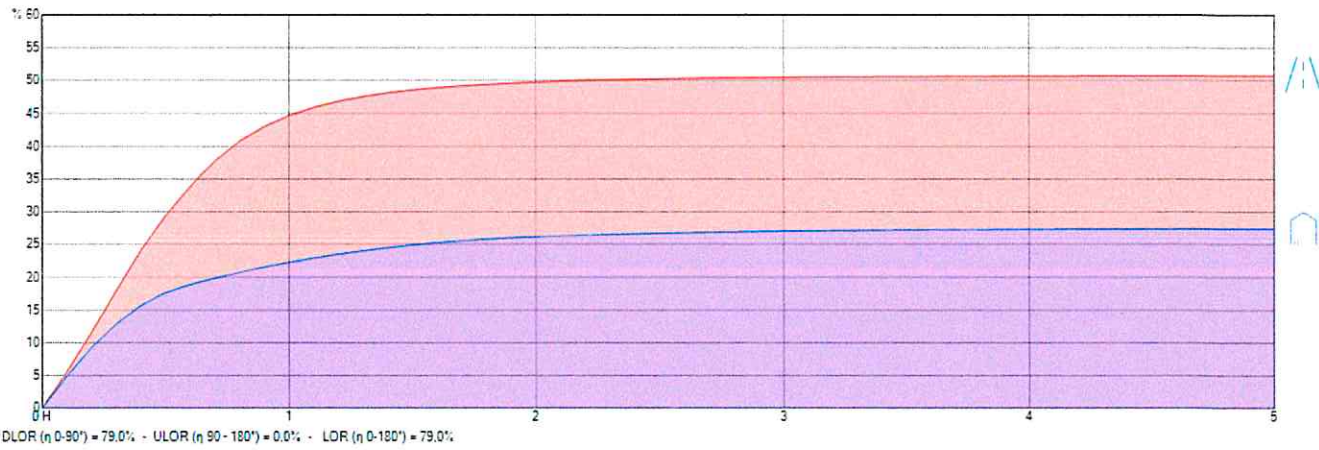
2.1. TECEO GEN2 1 32 LEDs 800mA WW730 Piano, Vetro extra chiaro, Liscio 5246 468662
Polar/Cartesian diagram



Isolux



Utilization curve



3. Results

3.1. Grid summary

Multi-lanes (LU)

M3 (LU : Ave = 1,00 cd/m² Uo = 40 % UI = 60 % UoW = 15 % TI : 15 % EIR : 0,30)

1.1 Luminance - RTable - C2007

	Ave (A) (cd/m ²)	Min/Ave (%)	Min/Max (%)	Min (cd/m ²)	Max (cd/m ²)	UL (%)	
Dynamic cross section - Observer 1 (-60,00; -5,25; 1,50)	1,07	45	28	0,48	1,72	70 %	✓
Dynamic cross section - Observer 2 (-60,00; -1,75; 1,50)	1,16	45	29	0,52	1,83	76 %	✓

1.2 Luminance - RTable - C2007

	Ave (A) (cd/m ²)	Min/Ave (%)	Min/Max (%)	Min (cd/m ²)	Max (cd/m ²)	UL (%)	
Dynamic cross section - Observer 1 (-60,00; -5,25; 1,50)	1,07	45	28	0,48	1,72	70 %	✓
Dynamic cross section - Observer 2 (-60,00; -1,75; 1,50)	1,16	45	29	0,52	1,83	76 %	✓

3.2. Observer summary

Multi-lanes (TI 1)

M3 (LU : Ave = 1,00 cd/m² Uo = 40 % UI = 60 % UoW = 15 % TI : 15 % EIR : 0,30)

	TI	
Dynamic cross section - Direction (0,0)	15	✓

Multi-lanes (TI 2)

M3 (LU : Ave = 1,00 cd/m² Uo = 40 % UI = 60 % UoW = 15 % TI : 15 % EIR : 0,30)

	TI	
Dynamic cross section - Direction (0,0)	10	✓

3.3. Values summary

EIR road

M3 (LU : Ave = 1,00 cd/m² Uo = 40 % UI = 60 % UoW = 15 % TI : 15 % EIR : 0,30)

	EIR road	
Dynamic cross section - Multi-lanes (EIR)	0,41	✓

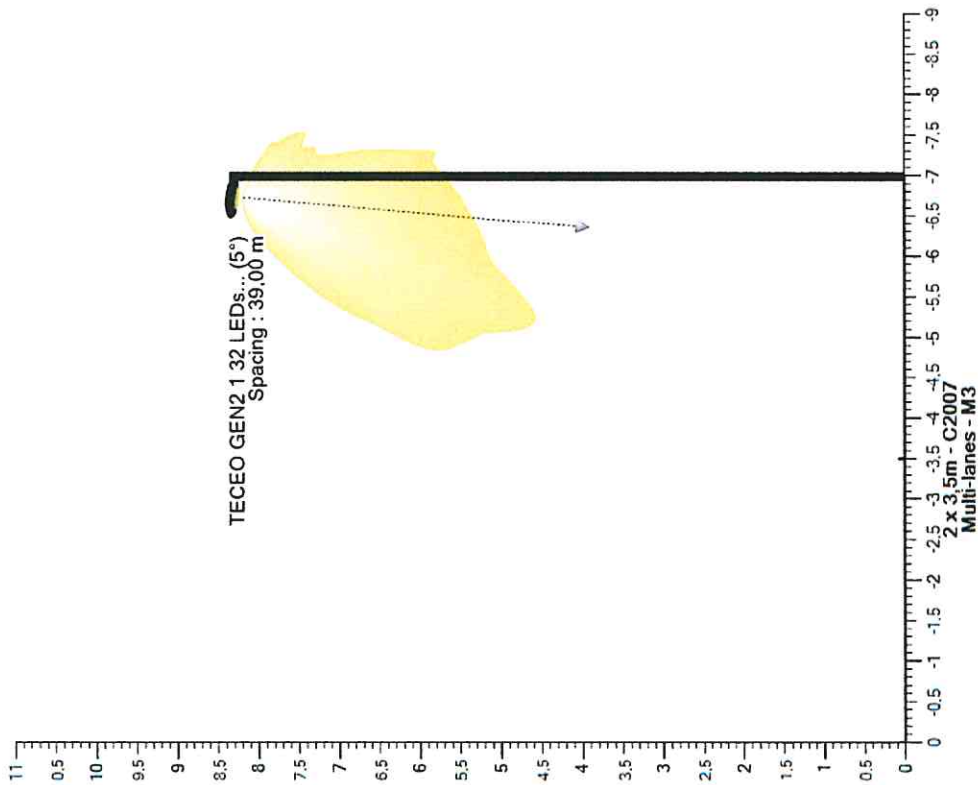
4. Power consumption

4.1. Dynamic cross section

Fixture	Current [mA]	Qty	Dimming	Power / Fixture	Total
TECEO GEN2 1 32 LEDs 800mA WW730 Piano, Vetro extra chiaro, Liscio 5246 468662	800	26	100 %	80 W	2052 W



5. Cross section

5.1. 2D View








6. Dynamic cross section


6.1. Matrix description

Ph. color	Description	Current [mA]	Source flux [klm]	Luminaires flux [klm]	Power [W]	Efficacy [lm/W]	MF	Height [m]	Fixture
	TECEO GEN2 1 32 LEDs 800mA WW730 Piano, Vetro extra chiaro, Liscio 5246 468662	800	11,283	8,909	80,0	111	0,800	5 x 8,30	

6.2. Luminaire positions

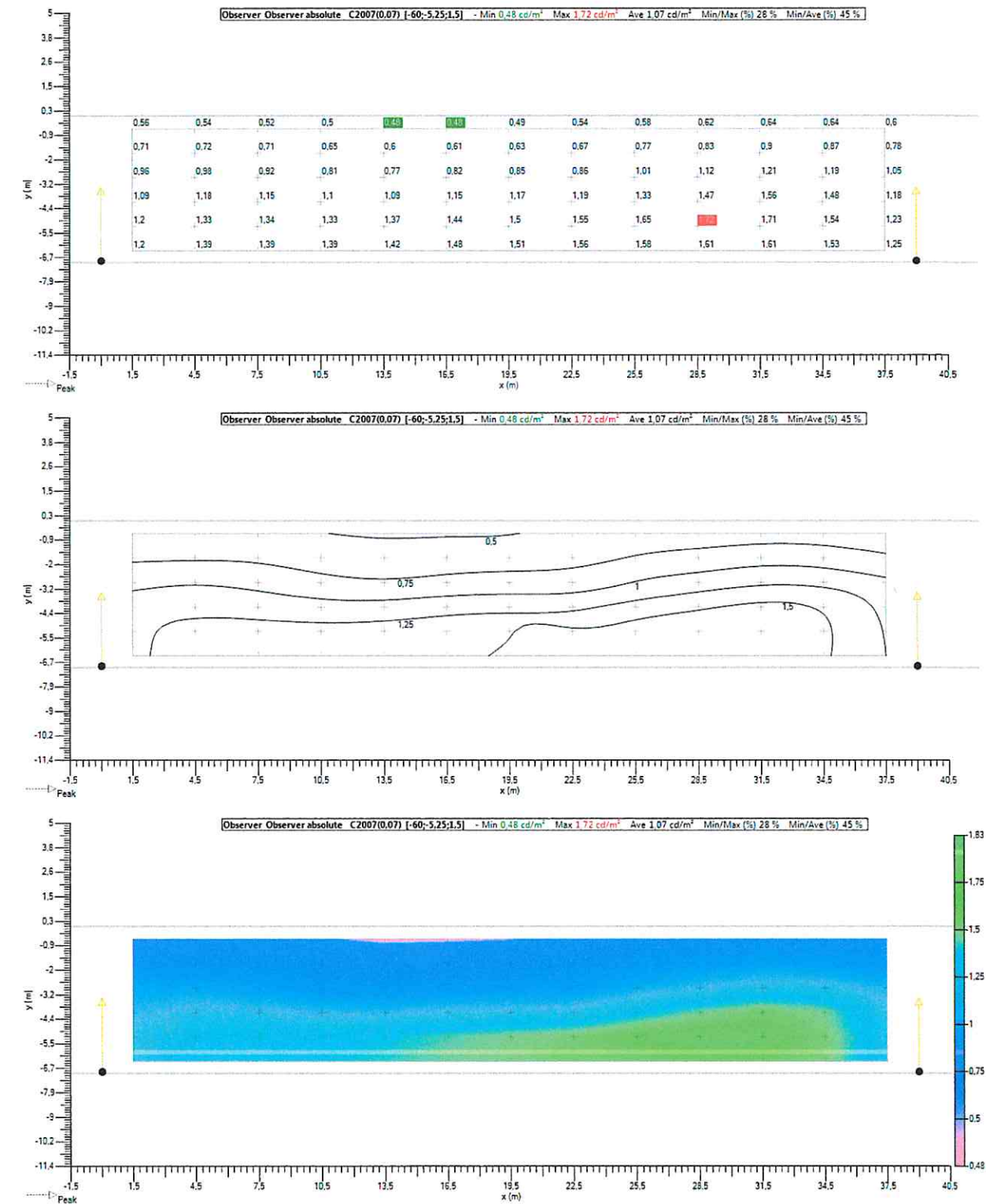
	Color	N°	Position			Luminaire							Target		
			X [m]	Y [m]	Z [m]	Name	Current [mA]	Az [°]	Incl [°]	Rot [°]	Flux [klm]	MF	X [m]	Y [m]	Z [m]
<input checked="" type="checkbox"/>		1	-39,00	-6,90	8,30	TECEO GEN2 1 32 LEDs 800mA WW730 Piano, Vetro extra chiaro, Liscio 5246 468662	-	0,0	5,0	0,0	11,283	0,800	-39,00	-6,17	0,00
<input checked="" type="checkbox"/>		2	0,00	-6,90	8,30	TECEO GEN2 1 32 LEDs 800mA WW730 Piano, Vetro extra chiaro, Liscio 5246 468662	-	0,0	5,0	0,0	11,283	0,800	0,00	-6,17	0,00
<input checked="" type="checkbox"/>		3	39,00	-6,90	8,30	TECEO GEN2 1 32 LEDs 800mA WW730 Piano, Vetro extra chiaro, Liscio 5246 468662	-	0,0	5,0	0,0	11,283	0,800	39,00	-6,17	0,00
<input checked="" type="checkbox"/>		4	78,00	-6,90	8,30	TECEO GEN2 1 32 LEDs 800mA WW730 Piano, Vetro extra chiaro, Liscio 5246 468662	-	0,0	5,0	0,0	11,283	0,800	78,00	-6,17	0,00
<input checked="" type="checkbox"/>		5	117,00	-6,90	8,30	TECEO GEN2 1 32 LEDs 800mA WW730 Piano, Vetro extra chiaro, Liscio 5246 468662	-	0,0	5,0	0,0	11,283	0,800	117,00	-6,17	0,00

6.3. Luminaire groups

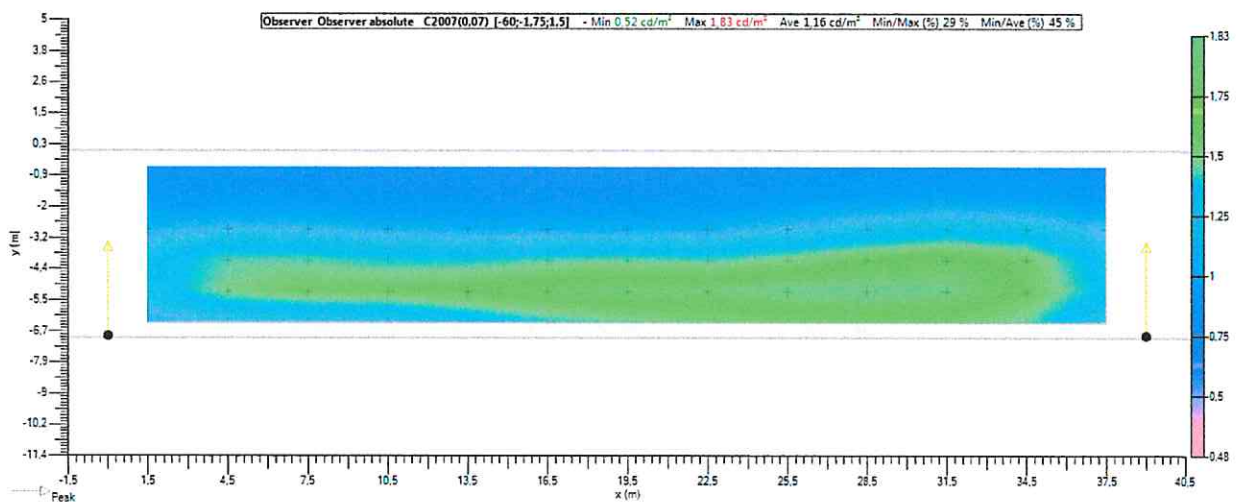
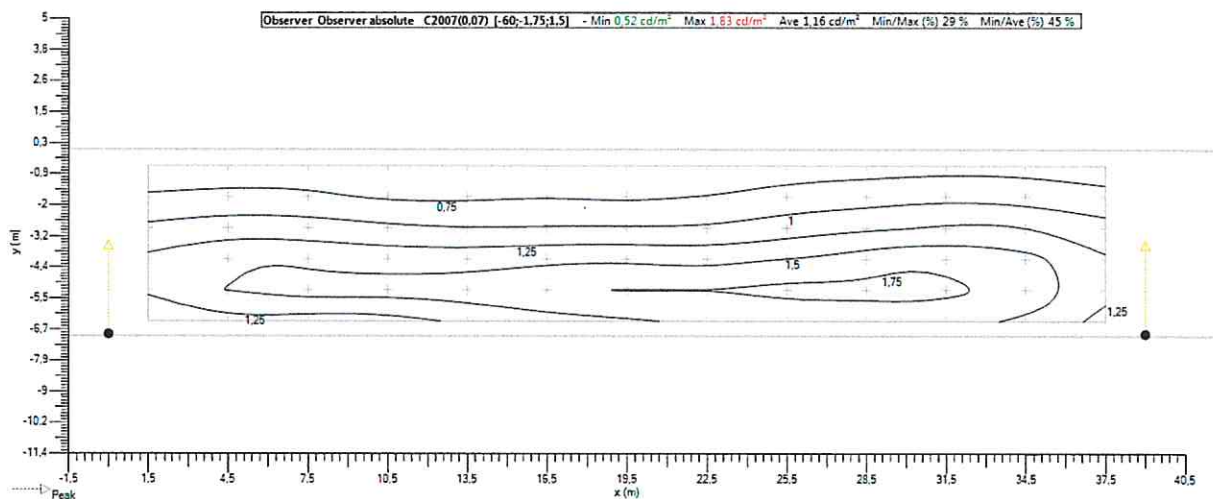
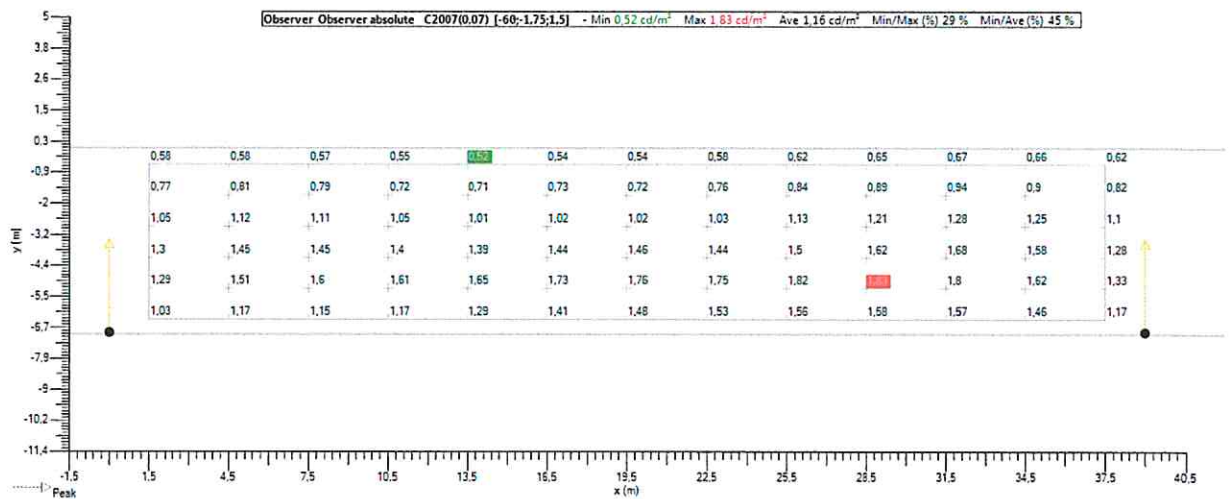
Linear																
	Color	N°	Position			Luminaire					Dimension			Rotation		
			X [m]	Y [m]	Z [m]	Name	Az [°]	Incl [°]	Rot [°]	Dim [%]	Count	Spacing [m]	Size [m]	X [°]	Y [°]	Z [°]
<input checked="" type="checkbox"/>		1	-39,00	-6,90	8,30	Fixture right	0,0	5,0	0,0	100	5	39,00	156,00	0,0	0,0	0,0

6.4. Luminance - Multi-lanes (LU) - C2007

Multi-lanes (LU) - Absolute 1

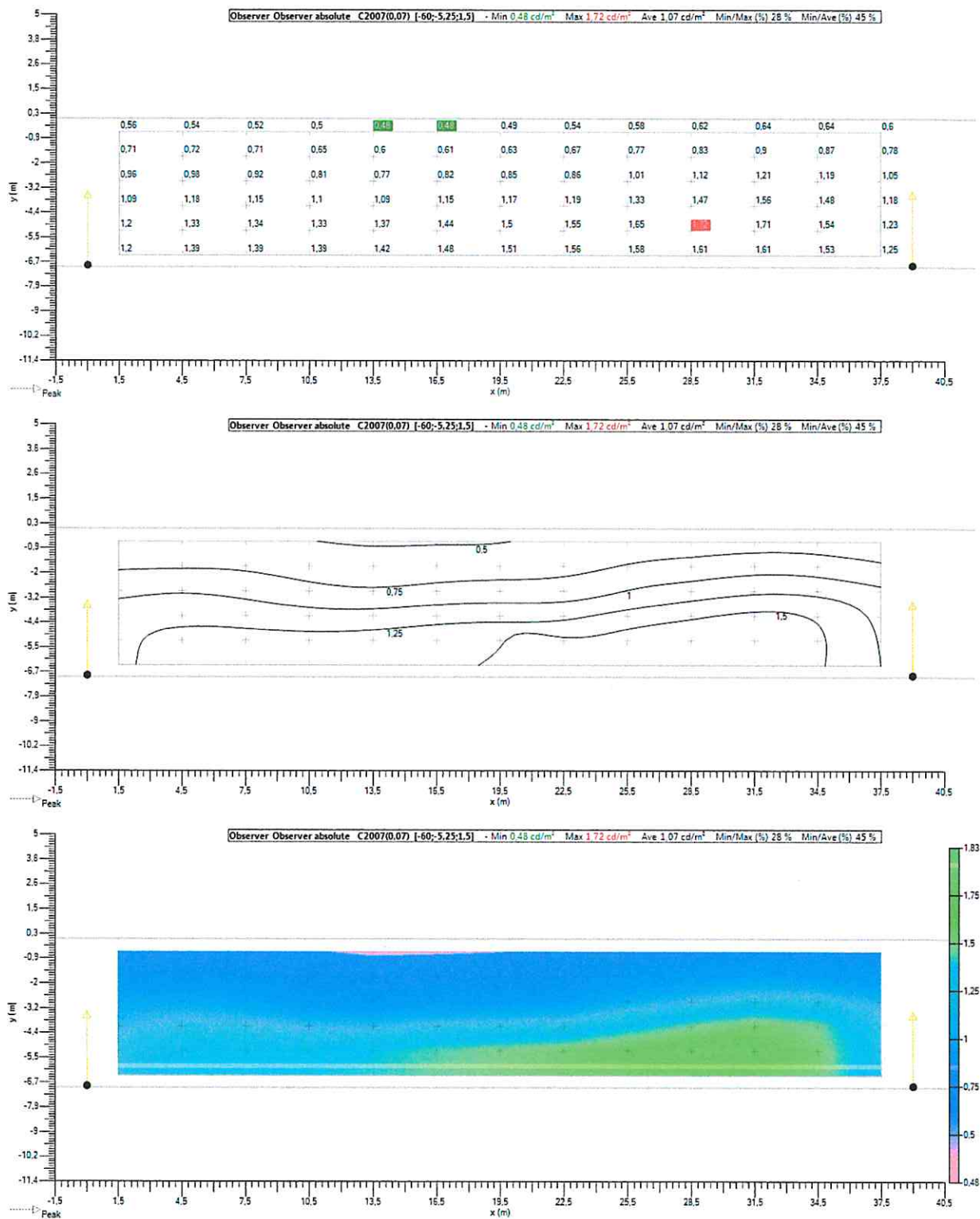


Multi-lanes (LU) - Absolute 2

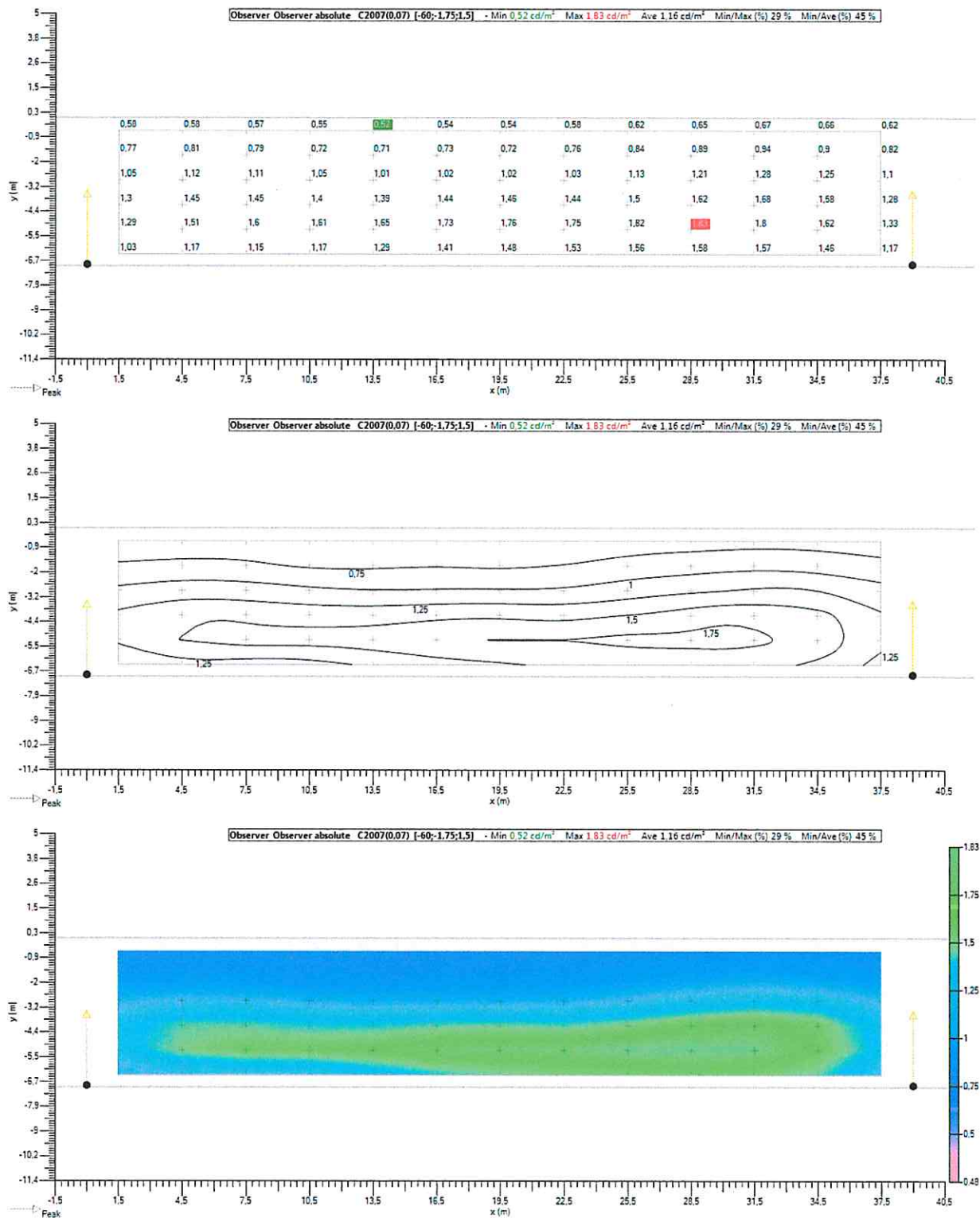


6.5. Luminance - Multi-lanes (LU) - C2007

Multi-lanes (LU) - Optional - Absolute 1

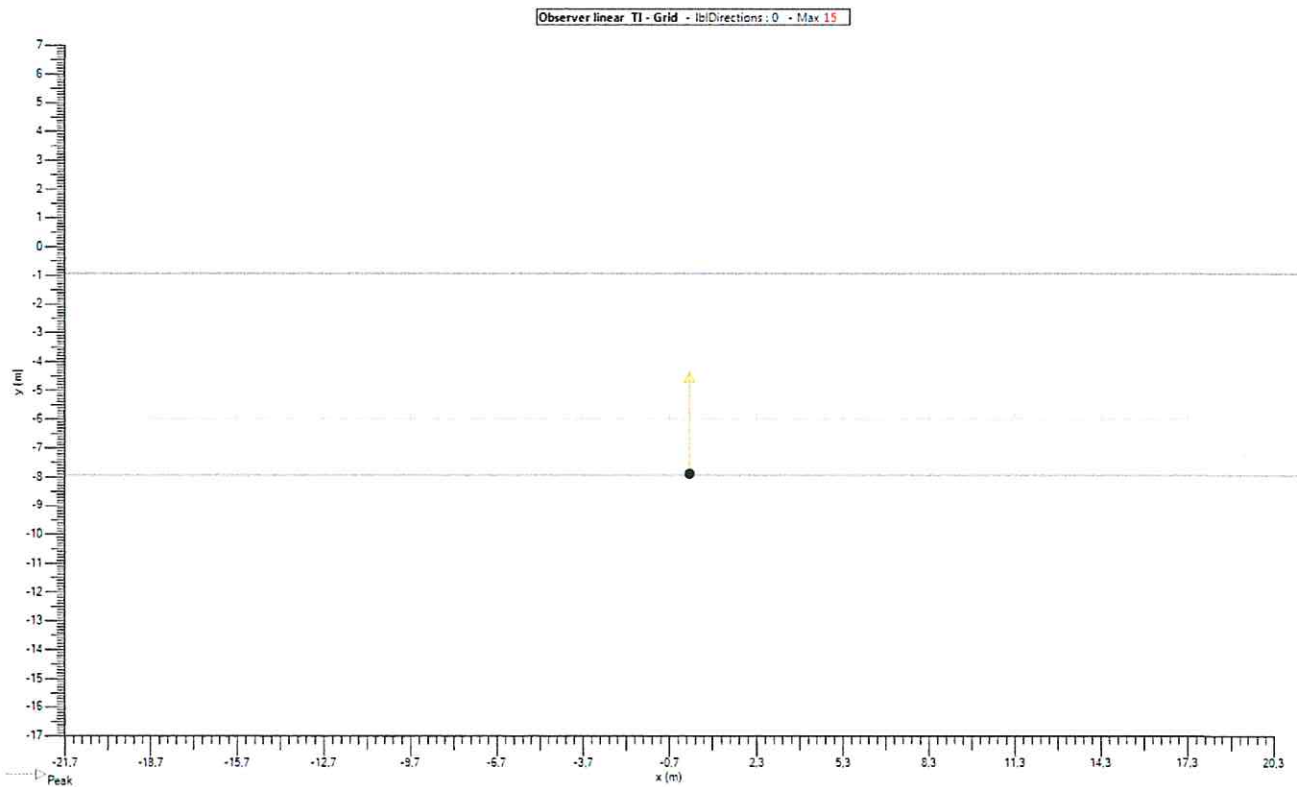


Multi-lanes (LU) - Optional - Absolute 2

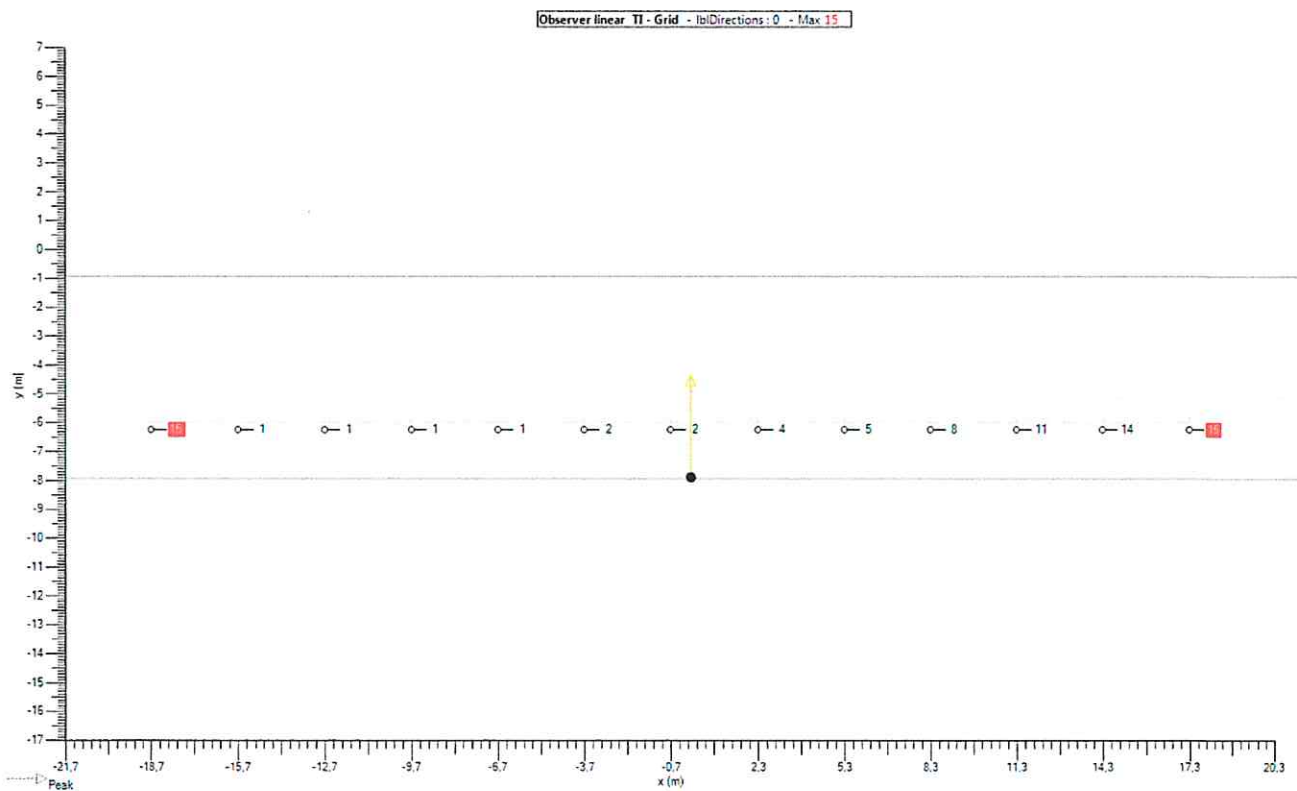


6.6. Multi-lanes (TI 1) - TI - Grid

Implantation

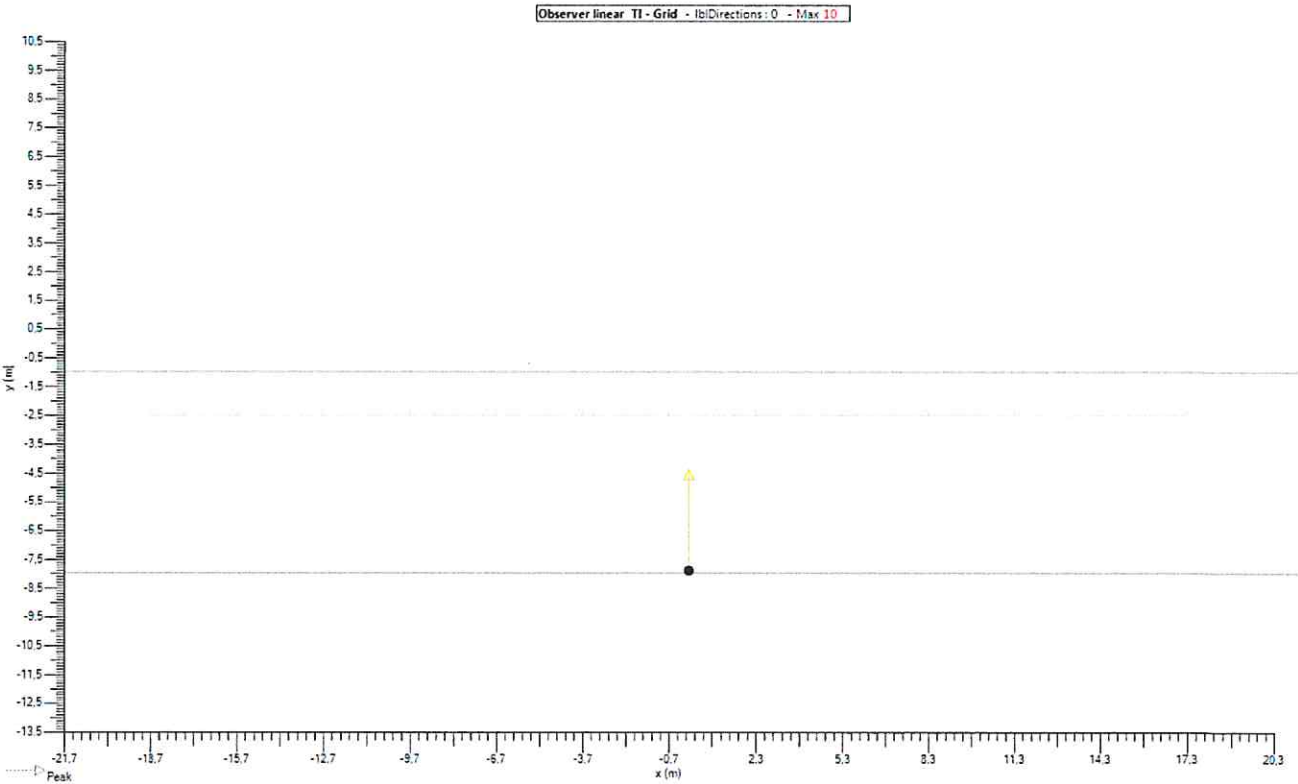


Values

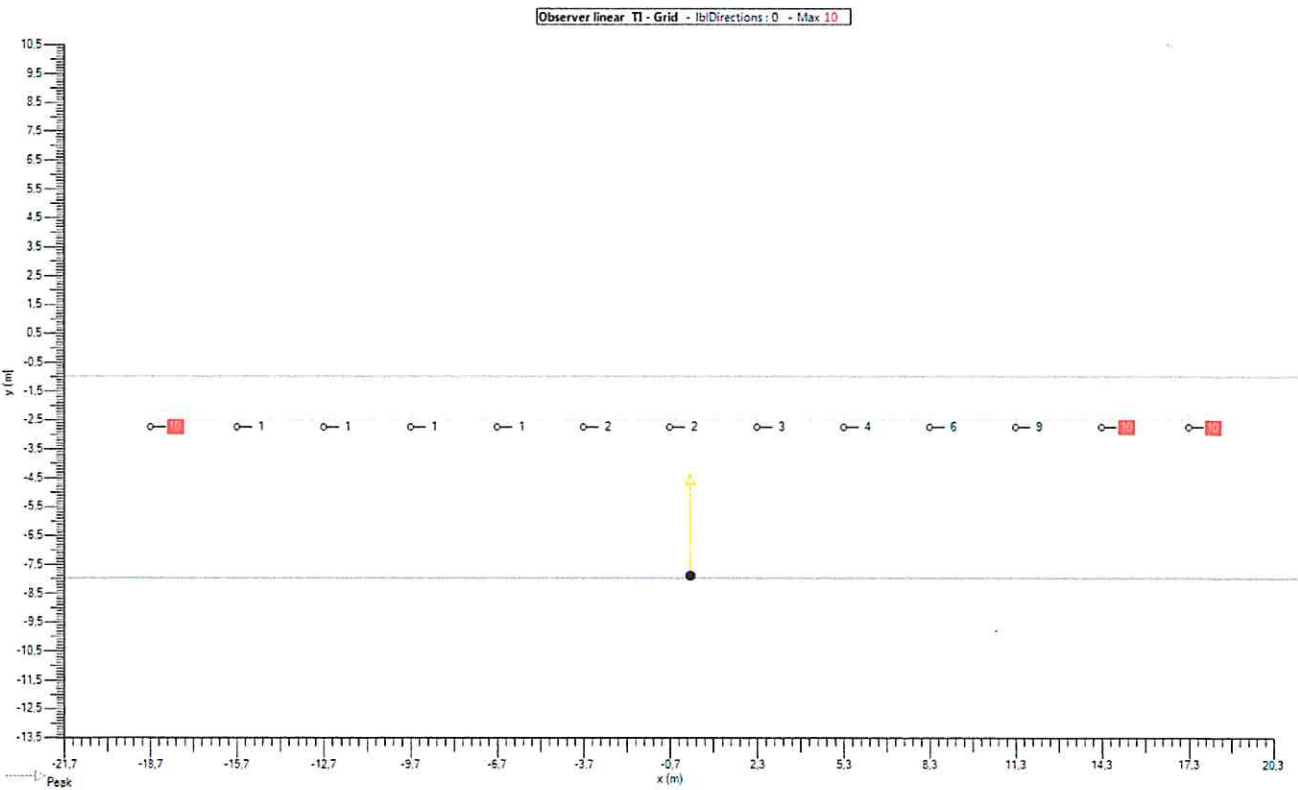


6.7. Multi-lanes (TI 2) - TI - Grid

Implantation




Values



7. Grids

7.1. Multi-lanes (LU)

General

Type Grid rectangular XY
Enabled ☒
Colour 

Geometry

Origin	X 1,50 m	Y -6,42 m	Z 0,00 m
Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Dimension	Count X 13	Count Y 6	
	Spacing X 3,00 m	Spacing Y 1,17 m	
	Size X 36,00 m	Size Y 5,83 m	

8. Observer

8.1. Multi-lanes (TI 1)

General

Type Observer linear

En ☒

Color

Directions 0,0

Calculation TI - Grid

Grid Multi-lanes (LU)

Geometry

Origin

X -18,70 m

Y -5,25 m

Z 1,50 m

Rotation

X 0,0 °

Y 0,0 °

Z 0,0 °

Dimension

Count 13

Spacing 3,00 m

Size 36,00 m

8.2. Multi-lanes (TI 2)

General

Type Observer linear

En ☒

Color

Directions 0,0

Calculation TI - Grid

Grid Multi-lanes (LU)

Geometry

Origin

X -18,70 m

Y -1,75 m

Z 1,50 m

Rotation

X 0,0 °

Y 0,0 °

Z 0,0 °

Dimension

Count 13

Spacing 3,00 m

Size 36,00 m