

Comune di Quarrata - Via Vecchia Fiorentina 2° tr. 1° Tratto

Standard EN 13201 : 2015

Designer Studio Tecnico

Date 19/03/2022

Application Ulysse 3.5.2

Description Verifica Illuminotecnica Via Vecchia Fiorentina 2° tr. 1° Tratto

Categoria M3 : Strada Urbana di Quartiere

Teceo 1 32led 700mA 70W ottica 5248

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1. Fixtures

1.1. TECEO GEN2 1 32 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702

Type TECEO GEN2 1

Reflector 5248

Source 32 LEDs 700mA WW730

Protector Piano, Vetro extra chiaro, Liscio

Source flux 10,156 klm

G* 2

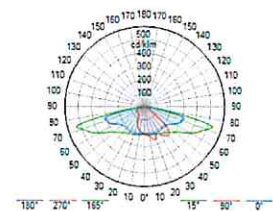
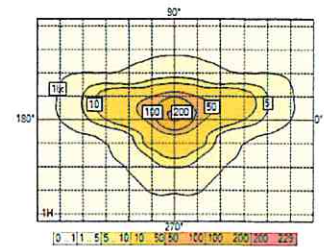
Luminaire wattage 70,0 W

MF 0,80

Matrix 468702

Luminaire flux 8,013 klm

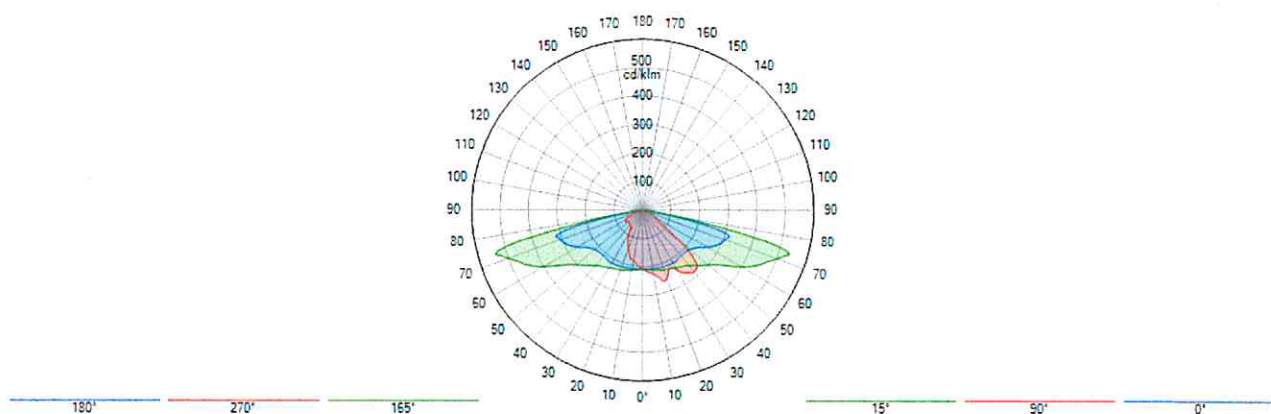
Efficacy 114 lm/W



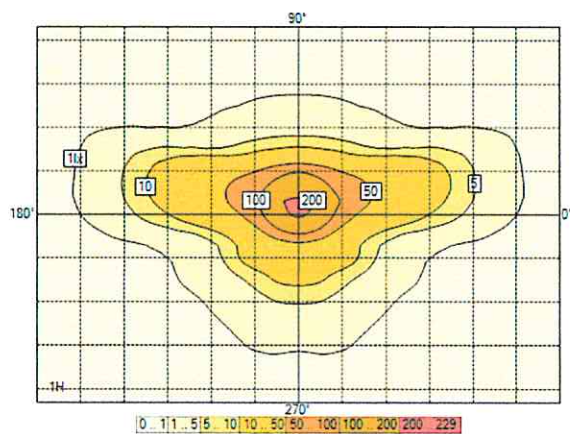
2. Photometric documents

2.1. TECEO GEN2 1 32 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702

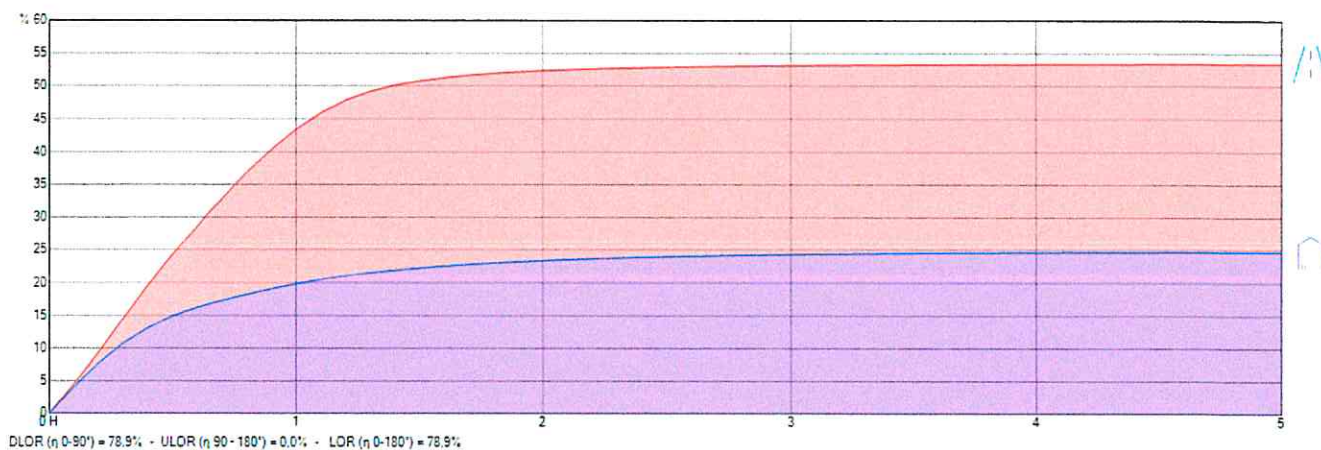
Polar/Cartesian diagram



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; -5,40; 1,50)	1,06	57	39	0,61	1,55	89 %	✓
Dynamic cross section - Observer 2 (-60,00; -1,80; 1,50)	1,16	57	40	0,66	1,66	85 %	✓

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; -5,40; 1,50)	1,06	57	39	0,61	1,55	89 %	✓
Dynamic cross section - Observer 2 (-60,00; -1,80; 1,50)	1,16	57	40	0,66	1,66	85 %	✓

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)	10	✓

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)	8	✓

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)	0,64	✓

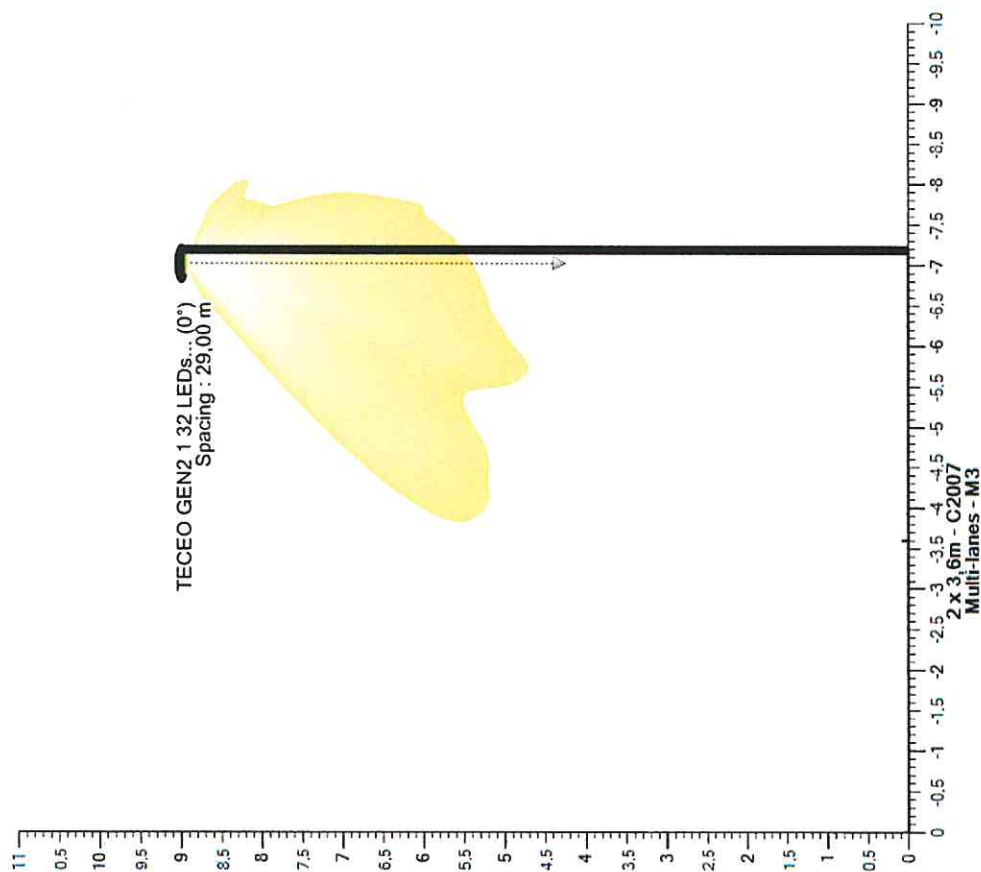
4. Power consumption

4.1. Dynamic cross section

Fixture	Current [mA]	Qty	Dimming	Power / Fixture	Total
TECEO GEN2 1 32 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	700	34	100 %	70 W	2417 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 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	700	10,156	8,013	70,1	114	0,800	6 x 9,00	

6.2. Luminaire positions

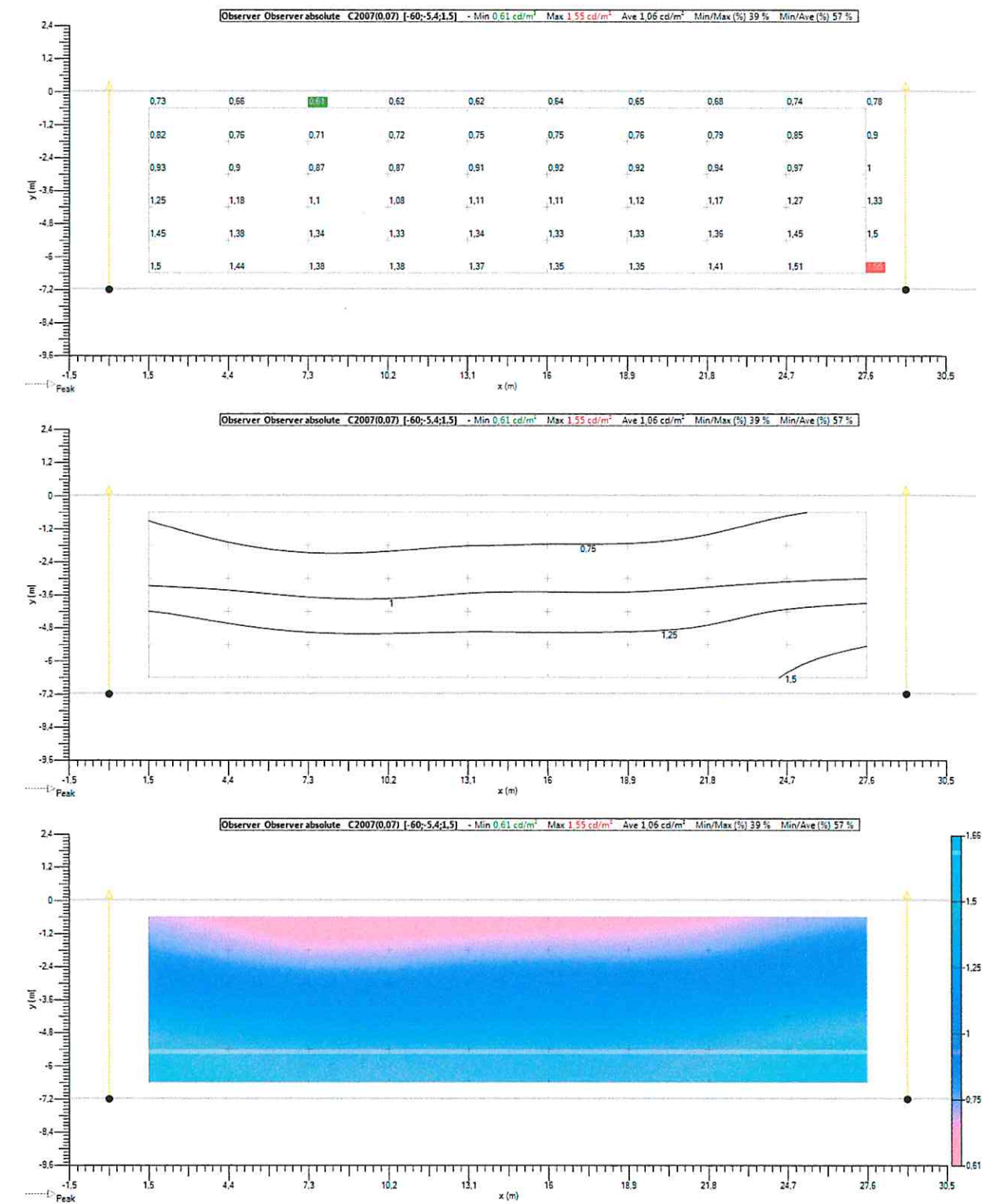
	Color	N°	Position			Luminaire							Target		
			X [m]	Y [m]	Z [m]	Name	Current [mA]	Az [°]	Incl [°]	Rot [°]	Flux [klm]	MF	X [m]	Y [m]	Z [m]
<input checked="" type="checkbox"/>		1	-29,00	-7,20	9,00	TECEO GEN2 1 32 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	10,156	0,800	-29,00	-7,20	0,00
<input checked="" type="checkbox"/>		2	0,00	-7,20	9,00	TECEO GEN2 1 32 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	10,156	0,800	0,00	-7,20	0,00
<input checked="" type="checkbox"/>		3	29,00	-7,20	9,00	TECEO GEN2 1 32 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	10,156	0,800	29,00	-7,20	0,00
<input checked="" type="checkbox"/>		4	58,00	-7,20	9,00	TECEO GEN2 1 32 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	10,156	0,800	58,00	-7,20	0,00
<input checked="" type="checkbox"/>		5	87,00	-7,20	9,00	TECEO GEN2 1 32 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	10,156	0,800	87,00	-7,20	0,00
<input checked="" type="checkbox"/>		6	116,00	-7,20	9,00	TECEO GEN2 1 32 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	10,156	0,800	116,00	-7,20	0,00

6.3. Luminaire groups

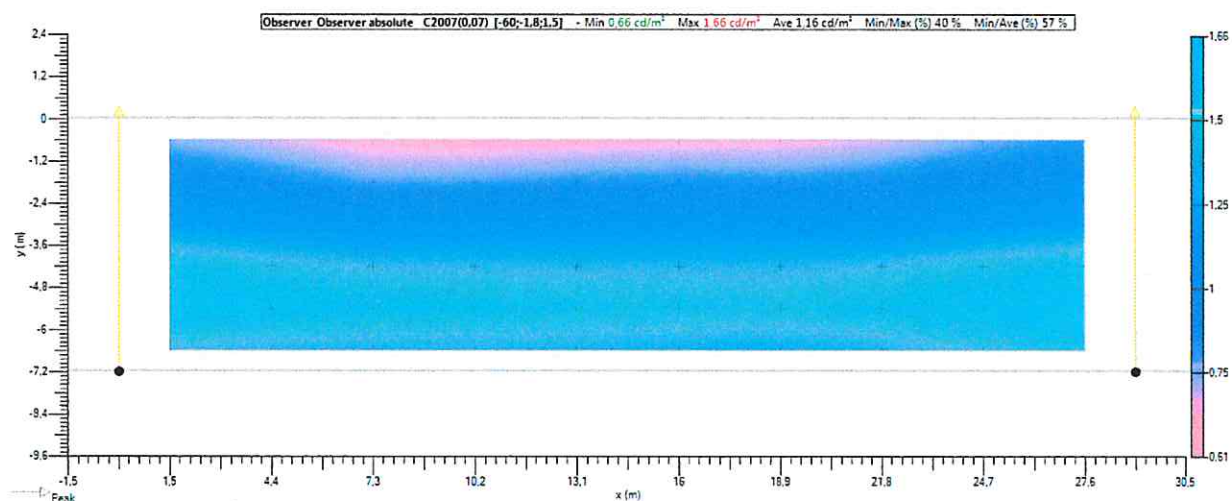
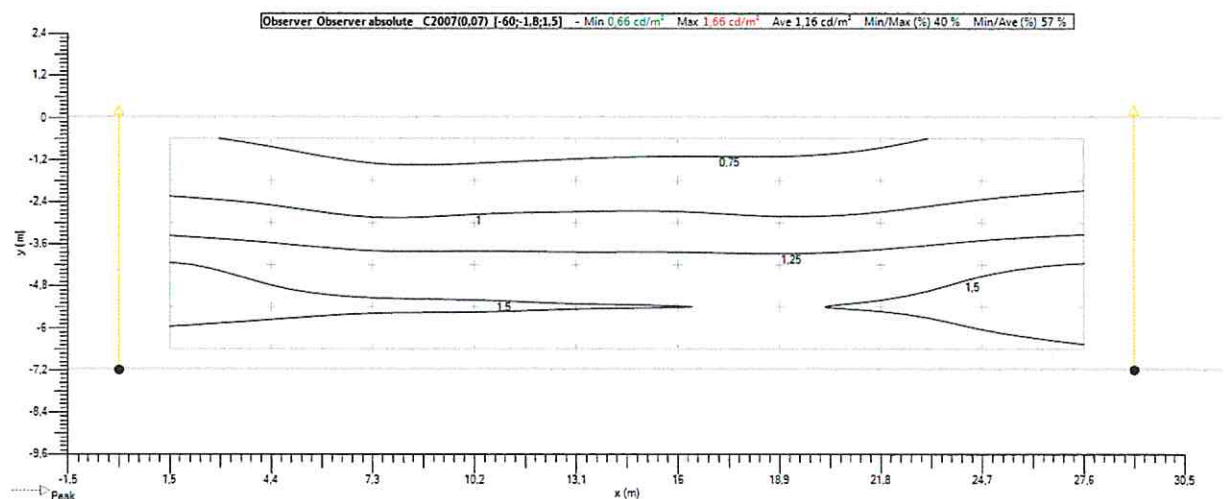
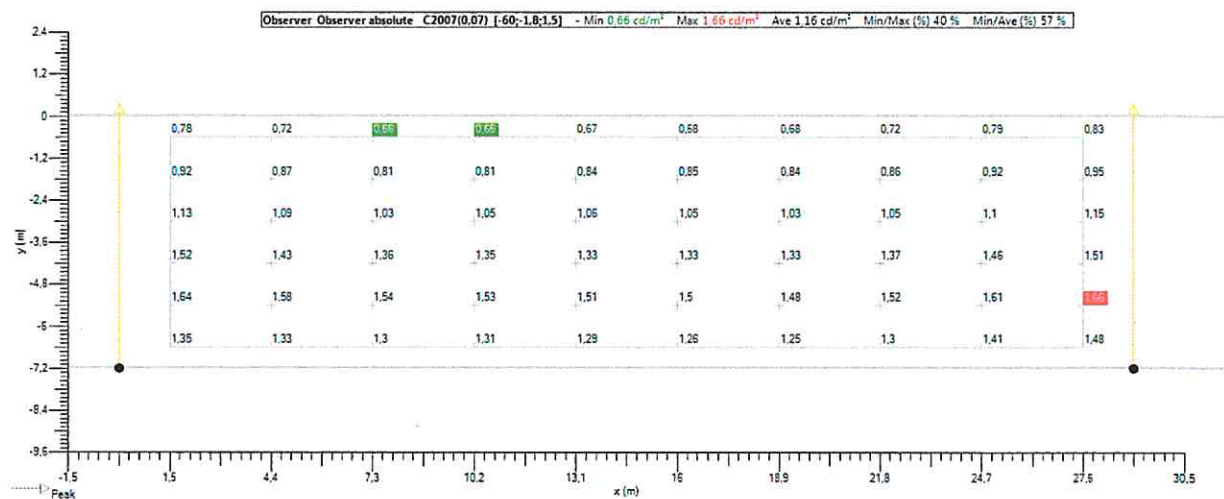
Linear																
	Color	N°	Position			Luminaire					Dimension			Rotation		
			X [m]	Y [m]	Z [m]	Name	Az [°]	Incl [°]	Rot [°]	Dim [%]	Count	Spacing [m]	Size [m]	X [°]	Y [°]	Z [°]
<input checked="" type="checkbox"/>		1	-29,00	-7,20	9,00	Fixture right	0,0	0,0	0,0	100	6	29,00	145,00	0,0	0,0	0,0

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

Multi-lanes (LU) - Absolute 1

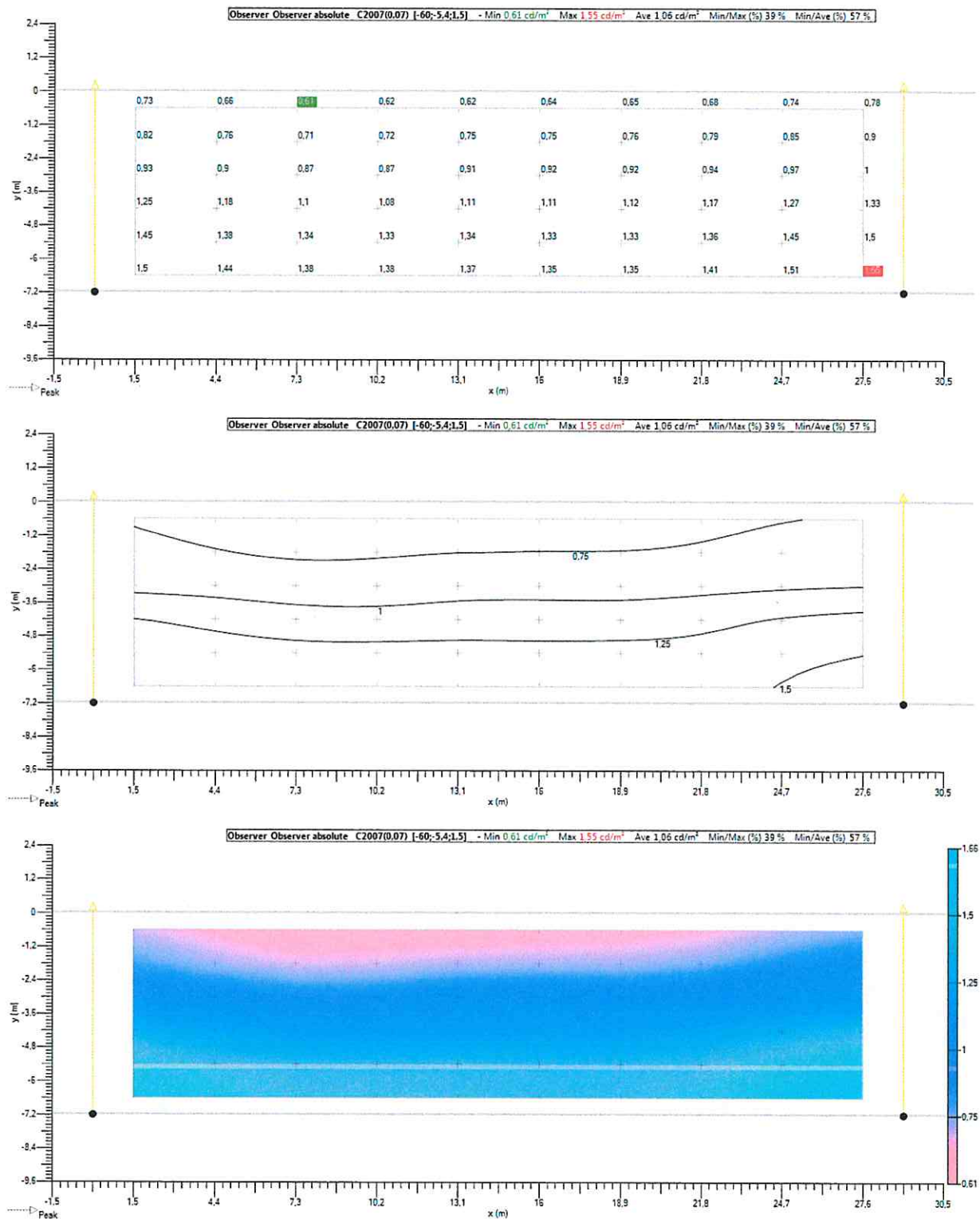


Multi-lanes (LU) - Absolute 2

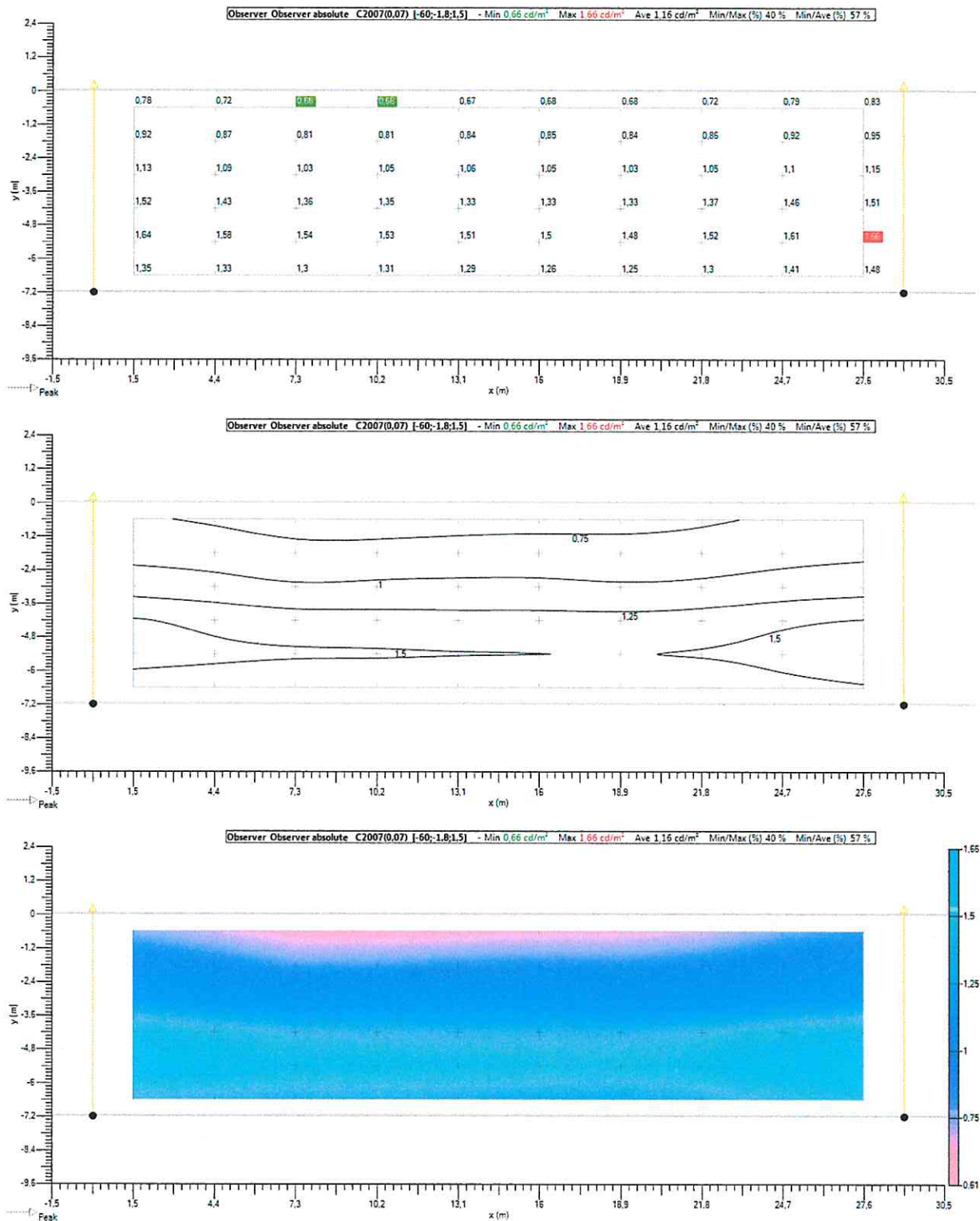


6.5. Luminance - Multi-lanes (LU) - C2007

Multi-lanes (LU) - Optional - Absolute 1

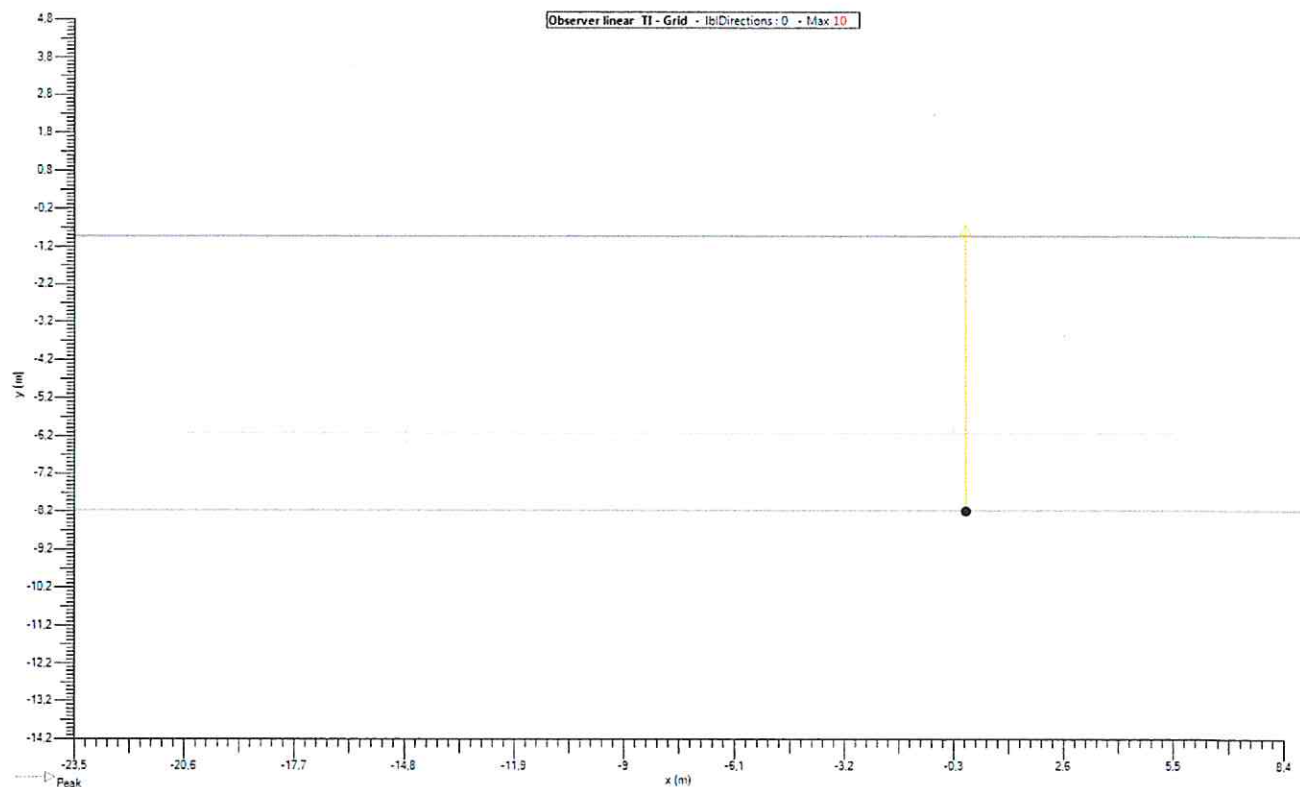


Multi-lanes (LU) - Optional - Absolute 2

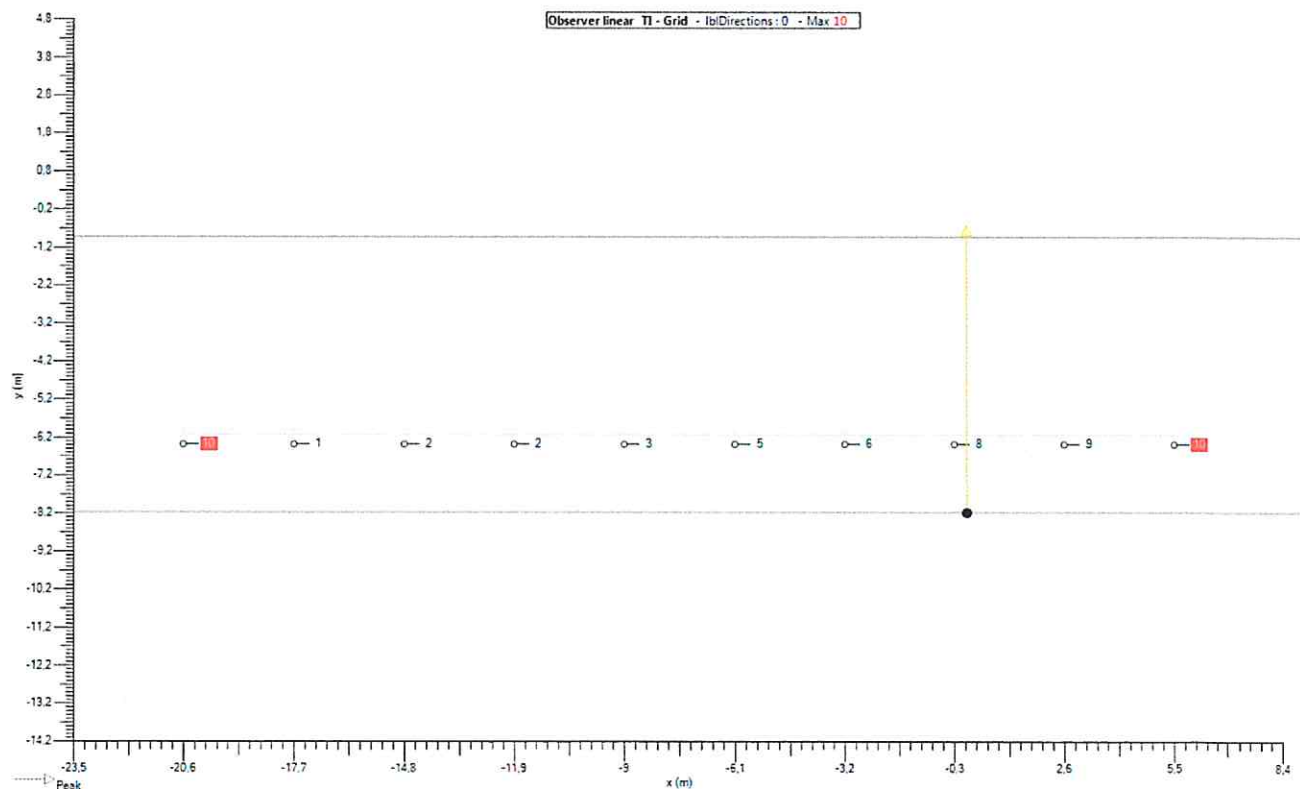


6.6. Multi-lanes (TI 1) - TI - Grid

Implantation

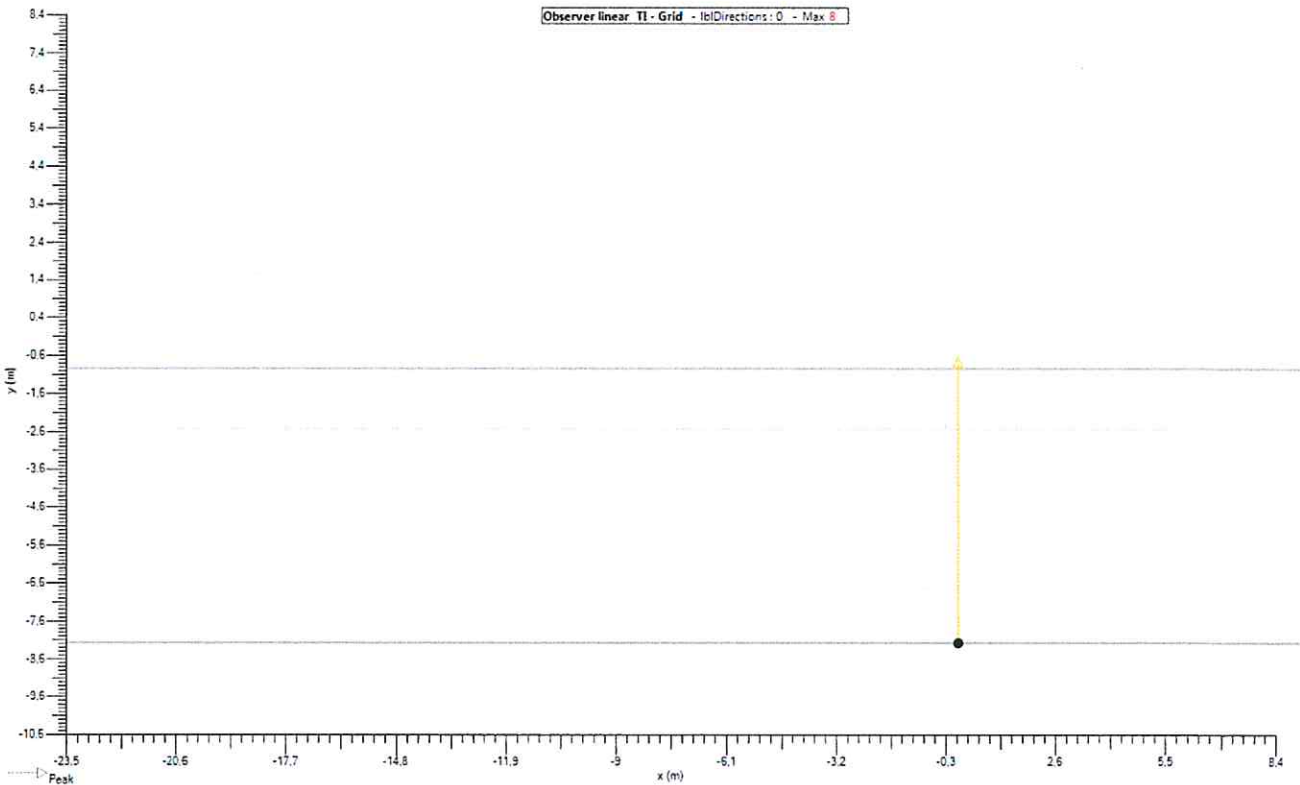


Values

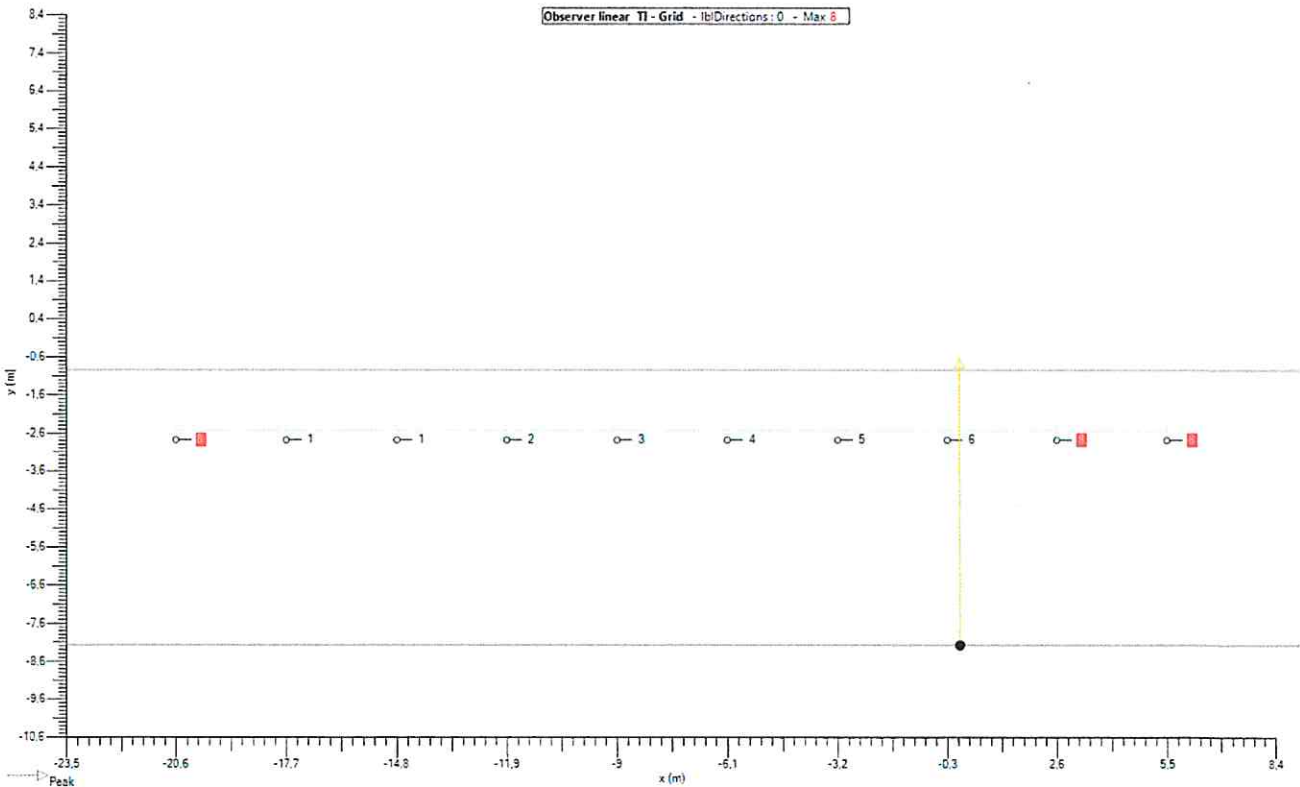


6.7. Multi-lanes (TI 2) - TI - Grid

Implantation




Values



7. Grids


7.1. Multi-lanes (LU)

General		Geometry			
Type	Grid rectangular XY	Origin	X 1,45 m	Y -6,60 m	Z 0,00 m
Enabled	<input checked="" type="checkbox"/>	Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Colour		Dimension	Count X 10	Count Y 6	
			Spacing X 2,90 m	Spacing Y 1,20 m	
			Size X 26,10 m	Size Y 6,00 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 -20,63 m	Y -5,40 m	Z 1,50 m
Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Dimension	Count 10	Spacing 2,90 m	Size 26,10 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 -20,63 m	Y -1,80 m	Z 1,50 m
Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Dimension	Count 10	Spacing 2,90 m	Size 26,10 m