

# Comune di Quarrata - Via Scalette

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**Standard** EN 13201 : 2015

**Designer** Studio Tecnico

**Date** 20/03/2022

**Application** Ulysse 3.5.2

**Description** Verifica Illuminotecnica Via Scalette

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

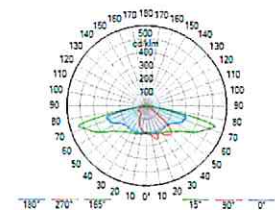
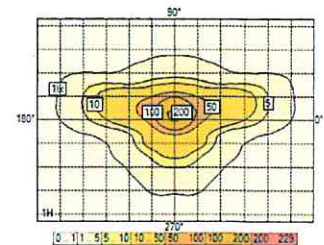
Luminaire wattage 70,0 W

MF 0,80

Matrix 468702

Luminaire flux 8,013 klm

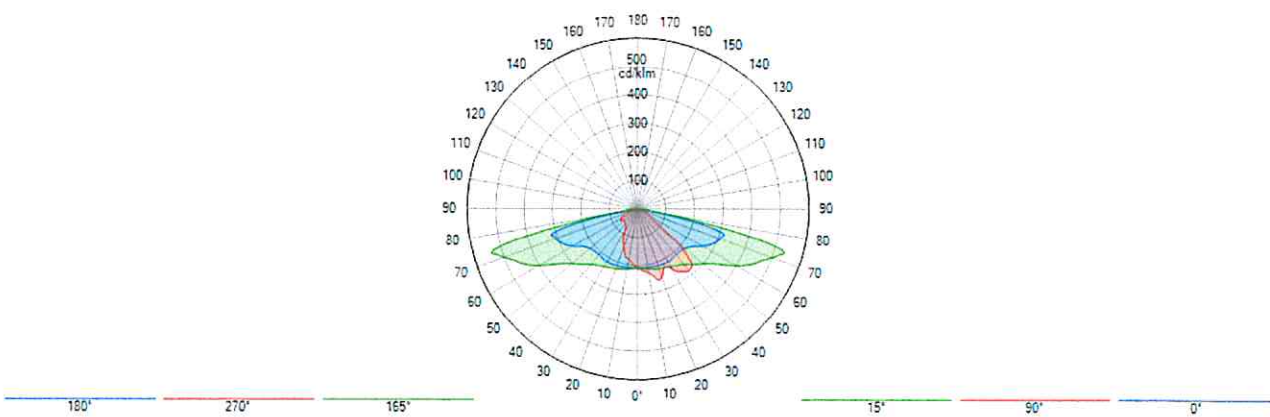
Efficacy 114 lm/W



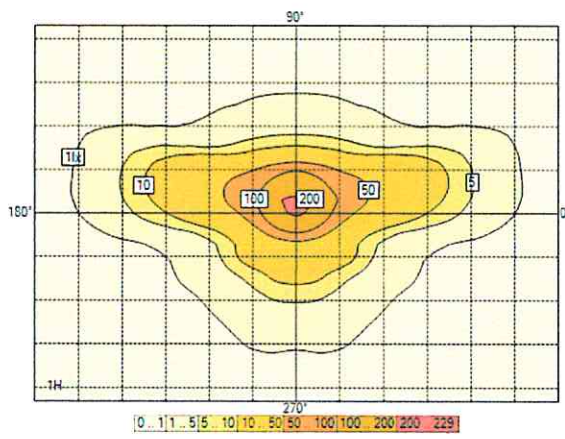
2. Photometric documents

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

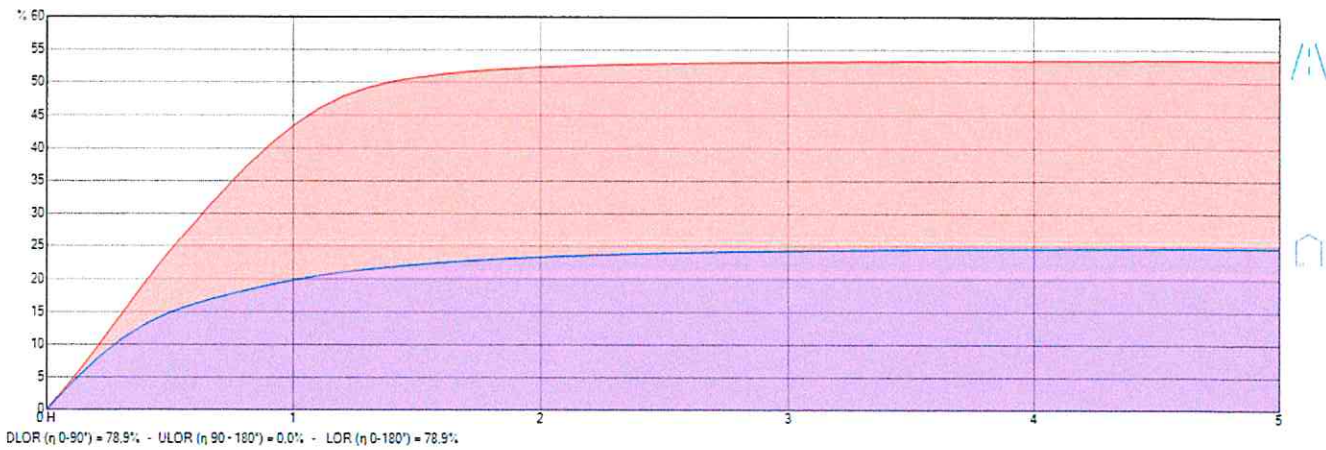
Polar/Cartesian diagram



Isolux



Utilization curve



### 3. Results

#### 3.1. Grid summary

##### Multi-lanes (LU)

M3 (LU : Ave = 1,00 cd/m<sup>2</sup> Uo = 40 % UI = 60 % UoW = 15 % TI : 15 % EIR : 0,30)

1.1 Luminance - RTable - C2007

	Ave (A) (cd/m <sup>2</sup> )	Min/Ave (%)	Min/Max (%)	Min (cd/m <sup>2</sup> )	Max (cd/m <sup>2</sup> )	UL (%)	
Dynamic cross section - Observer 1 (-60,00; -4,50; 1,50)	1,02	60	44	0,62	1,40	88 %	✓
Dynamic cross section - Observer 2 (-60,00; -1,50; 1,50)	1,11	61	45	0,67	1,51	86 %	✓

1.2 Luminance - RTable - C2007

	Ave (A) (cd/m <sup>2</sup> )	Min/Ave (%)	Min/Max (%)	Min (cd/m <sup>2</sup> )	Max (cd/m <sup>2</sup> )	UL (%)	
Dynamic cross section - Observer 1 (-60,00; -4,50; 1,50)	1,02	60	44	0,62	1,40	88 %	✓
Dynamic cross section - Observer 2 (-60,00; -1,50; 1,50)	1,11	61	45	0,67	1,51	86 %	✓

#### 3.2. Observer summary

##### Multi-lanes (TI 1)

M3 (LU : Ave = 1,00 cd/m<sup>2</sup> 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/m<sup>2</sup> Uo = 40 % UI = 60 % UoW = 15 % TI : 15 % EIR : 0,30)

	TI	
Dynamic cross section - Direction (0,0)	9	✓

#### 3.3. Values summary

##### EIR road

M3 (LU : Ave = 1,00 cd/m<sup>2</sup> Uo = 40 % UI = 60 % UoW = 15 % TI : 15 % EIR : 0,30)

	EIR road	
Dynamic cross section - Multi-lanes (EIR)	0,71	✓

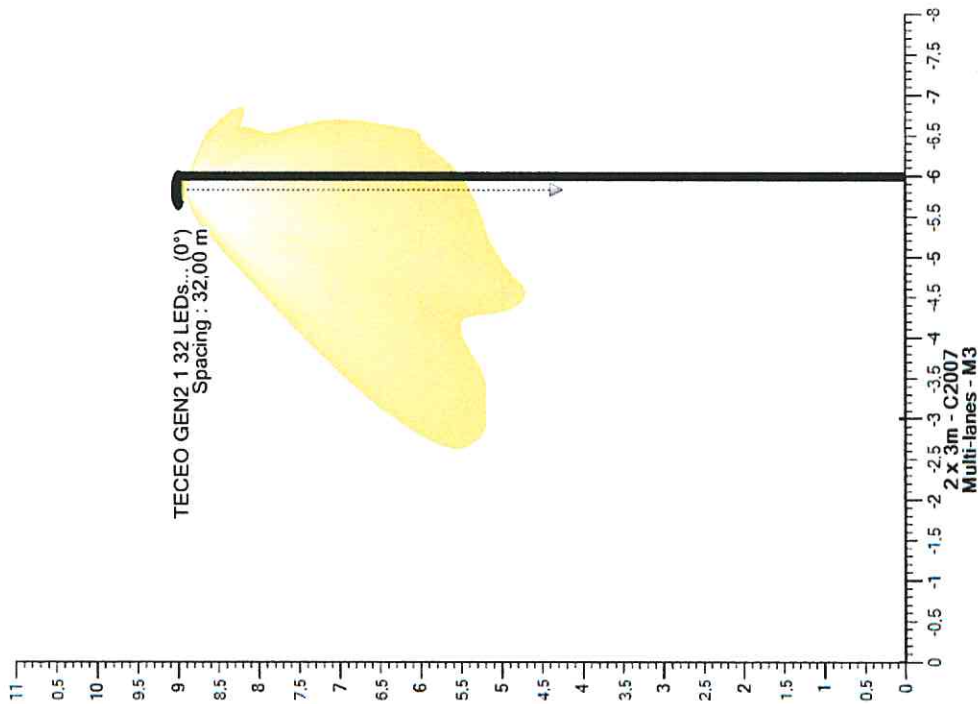
### 4. Power consumption

#### 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	31	100 %	70 W	2190 W

5. Cross section



5.1. 2D View











## 6. Dynamic cross section


### 6.1. Matrix description

Ph. color	Description	Current [mA]	Source flux [klm]	Luminaire 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

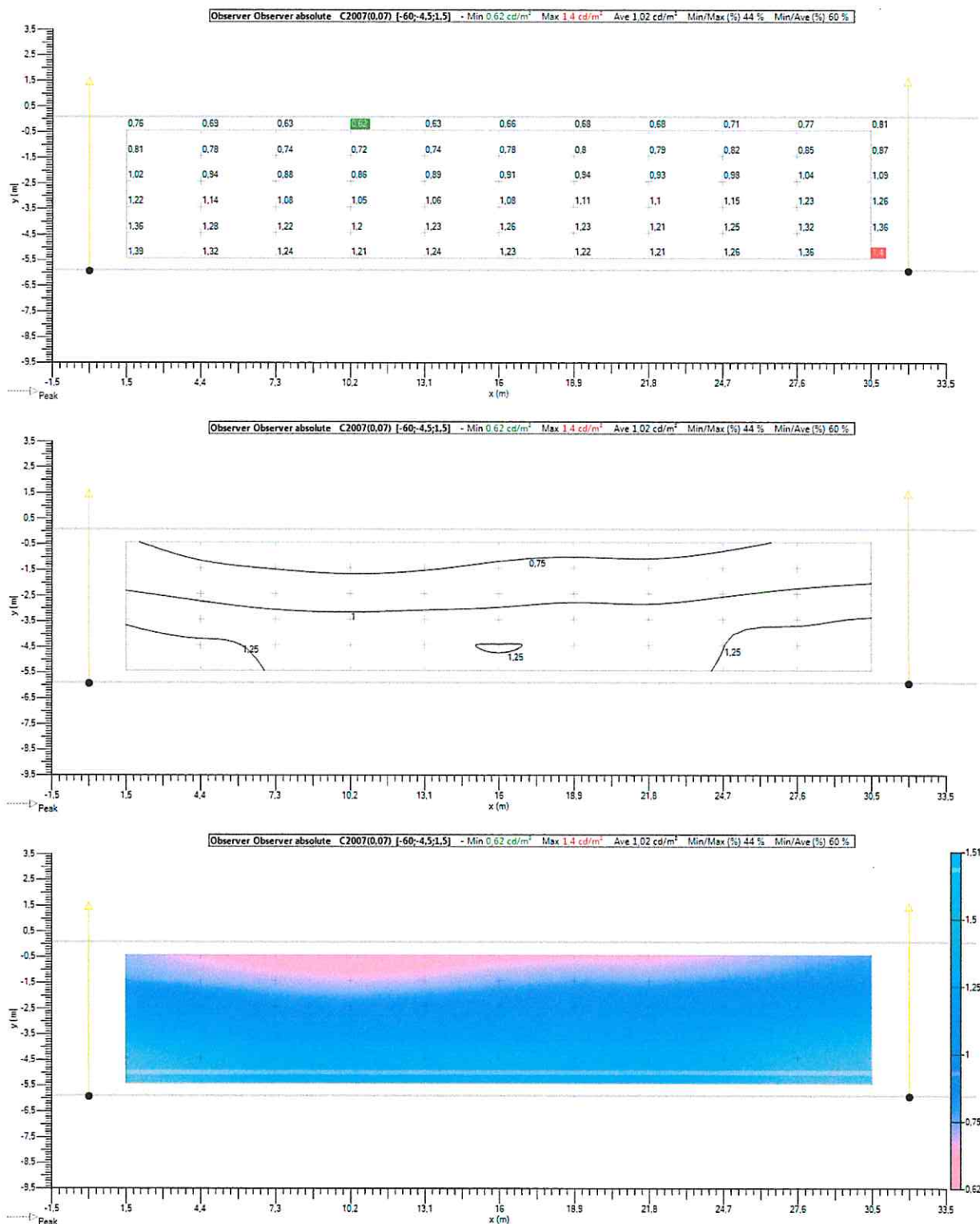
	Color	N°	Position			Luminaire							Target		
			X [m]	Y [m]	Z [m]	Name	Current [mA]	Az [°]	Incl [°]	Rot [°]	Flux [klm]	MF	X [m]	Y [m]	Z [m]
<input checked="" type="checkbox"/>		1	-32,00	-6,00	9,00	TECEO GEN2 1 32 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	10,156	0,800	-32,00	-6,00	0,00
<input checked="" type="checkbox"/>		2	0,00	-6,00	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	-6,00	0,00
<input checked="" type="checkbox"/>		3	32,00	-6,00	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	32,00	-6,00	0,00
<input checked="" type="checkbox"/>		4	64,00	-6,00	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	64,00	-6,00	0,00
<input checked="" type="checkbox"/>		5	96,00	-6,00	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	96,00	-6,00	0,00
<input checked="" type="checkbox"/>		6	128,00	-6,00	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	128,00	-6,00	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	-32,00	-6,00	9,00	Fixture right	0,0	0,0	0,0	100	6	32,00	160,00	0,0	0,0	0,0

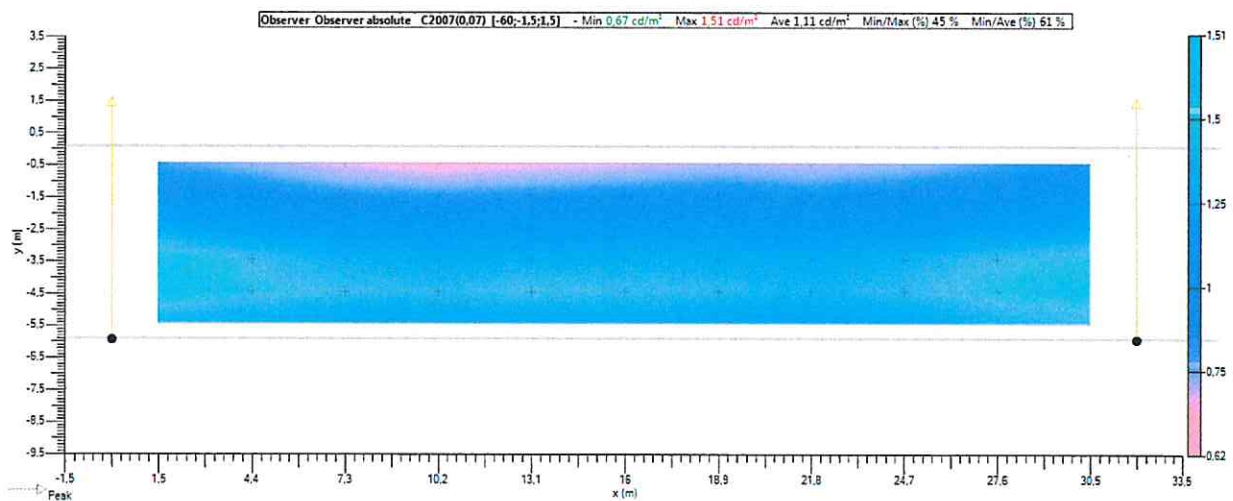
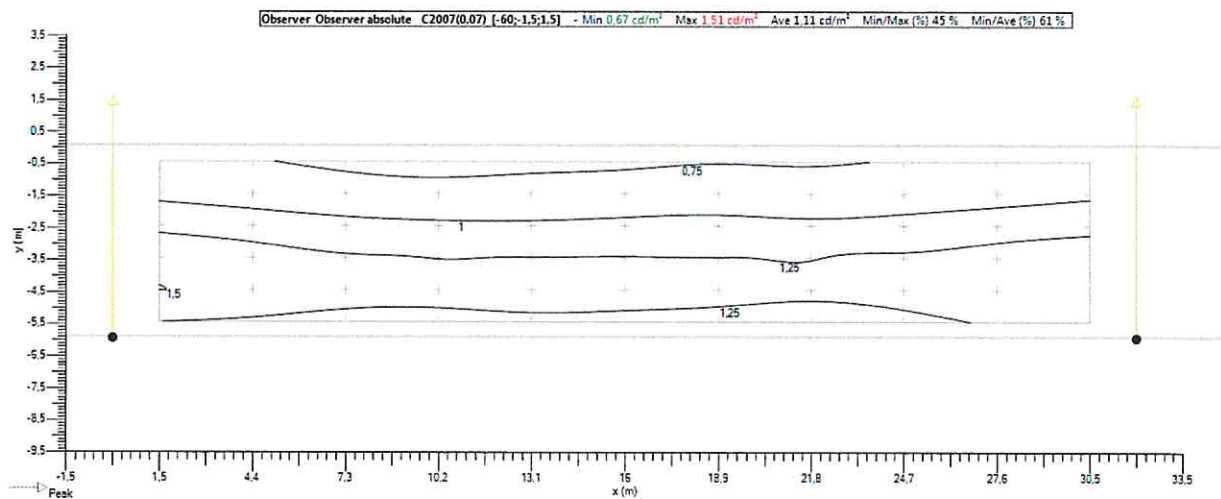
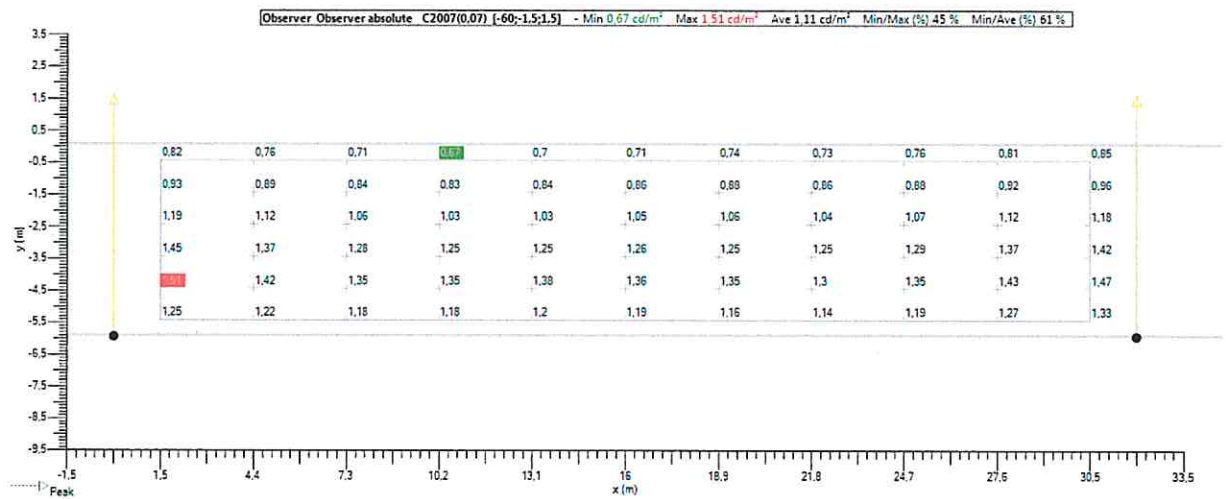
## 6.4. Luminance - Multi-lanes (LU) - C2007

### Multi-lanes (LU) - Absolute 1



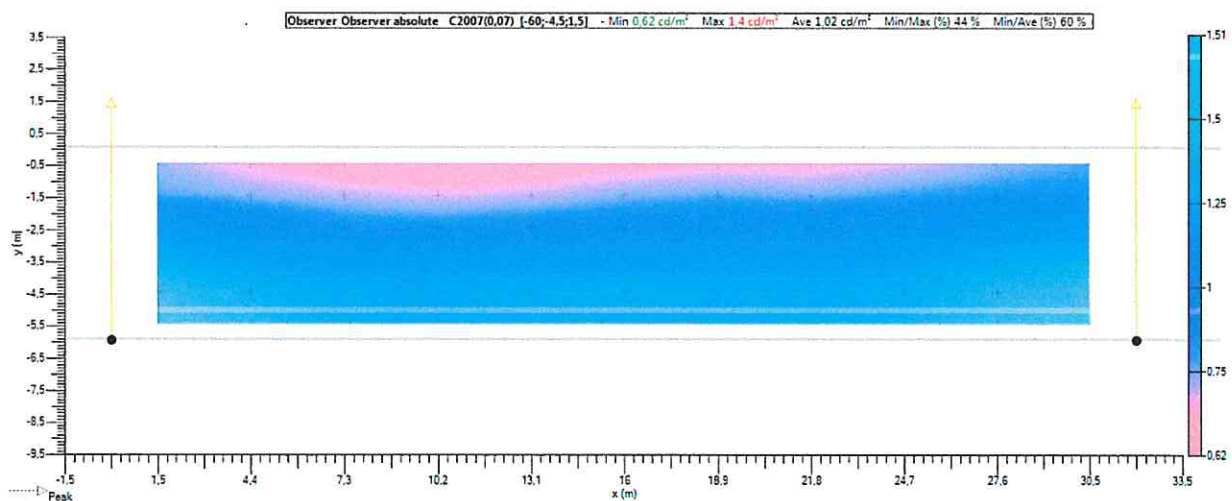
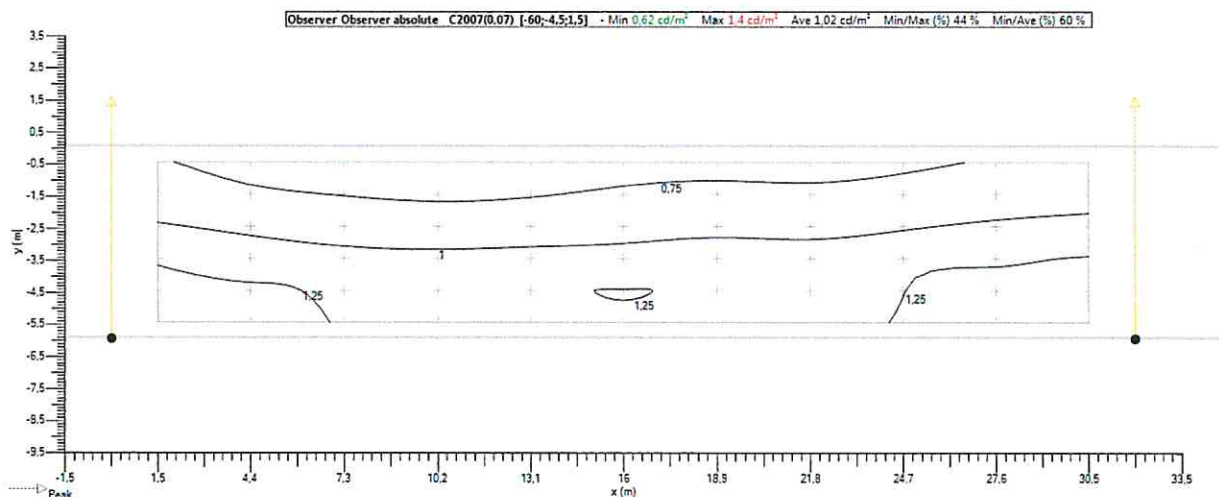
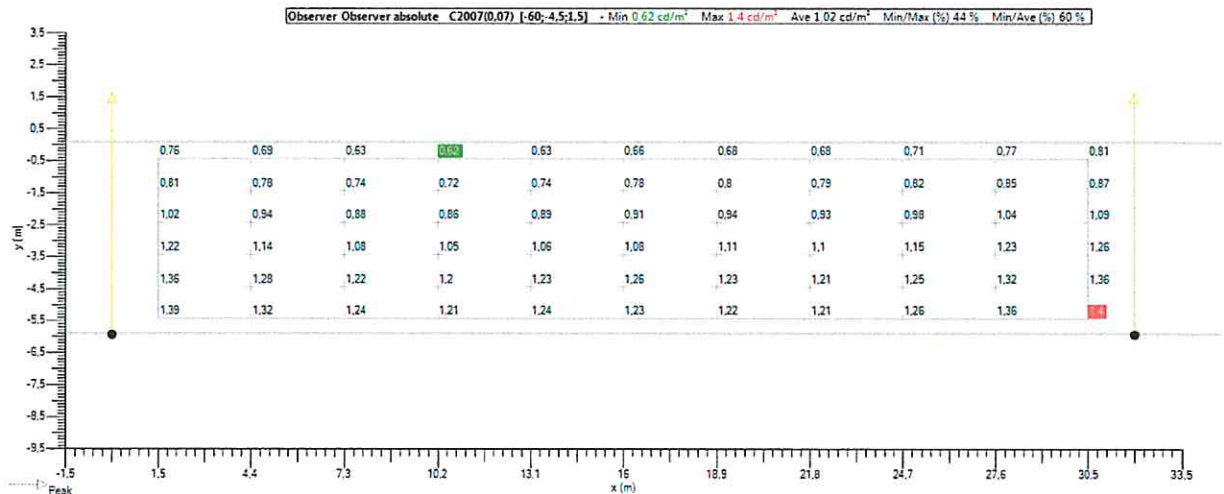


## Multi-lanes (LU) - Absolute 2

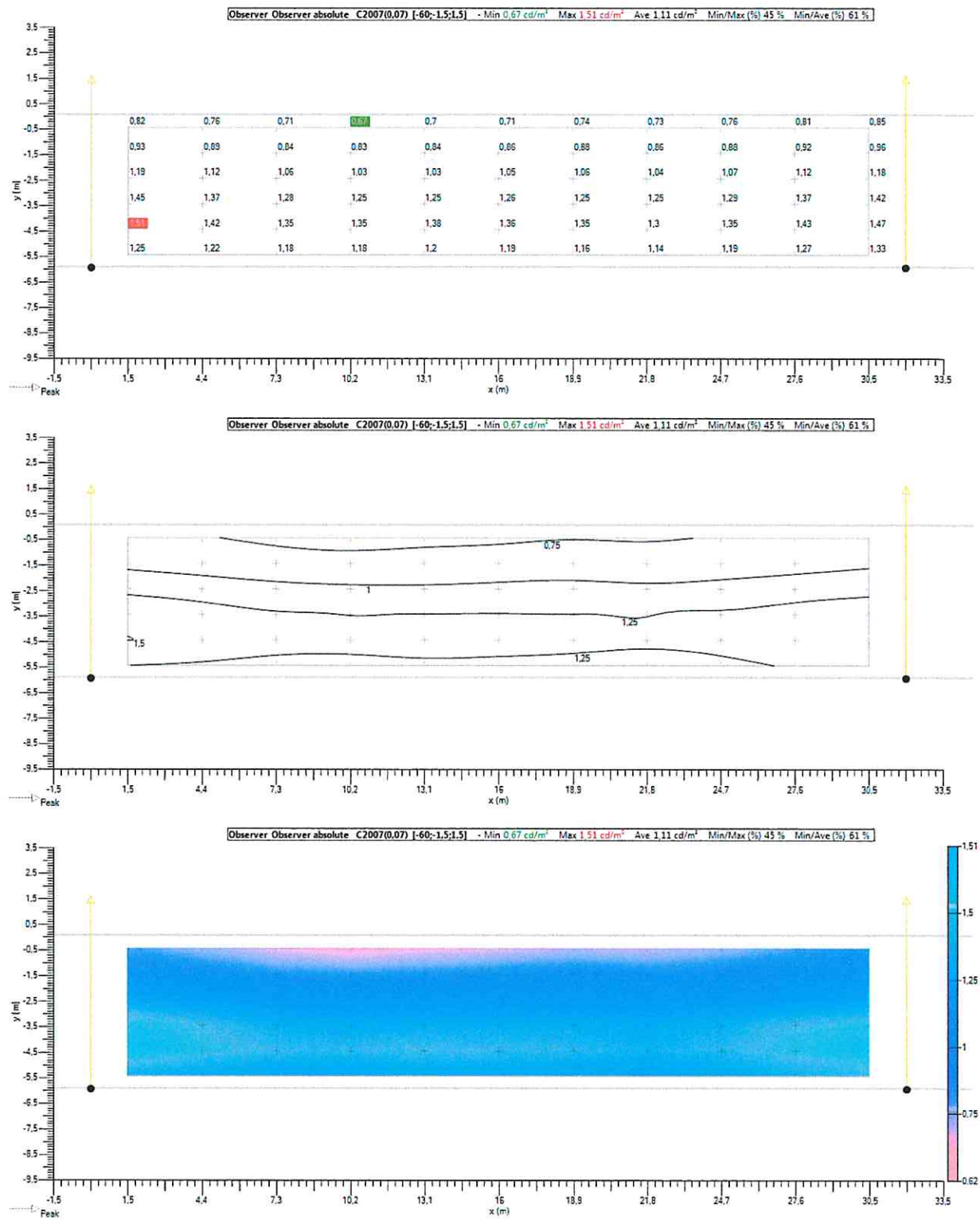


## 6.5. Luminance - Multi-lanes (LU) - C2007

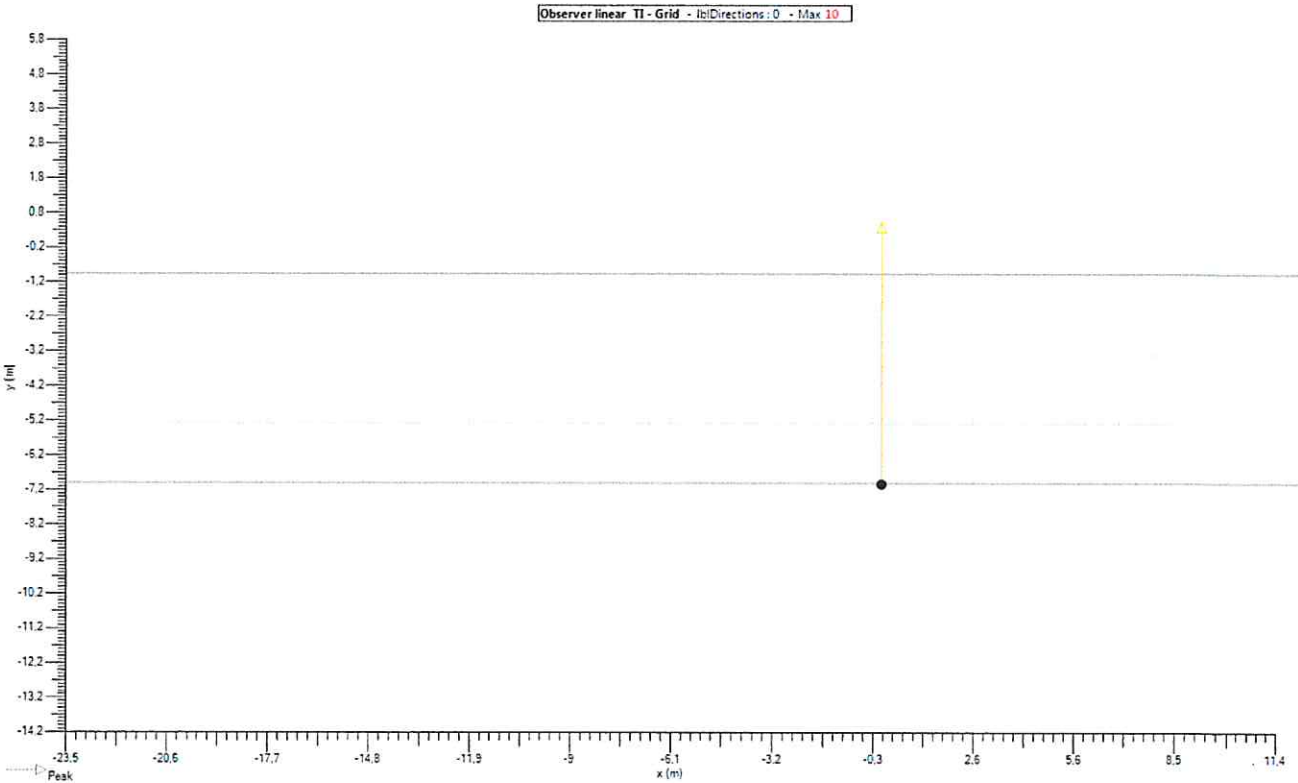
### Multi-lanes (LU) - Optional - Absolute 1



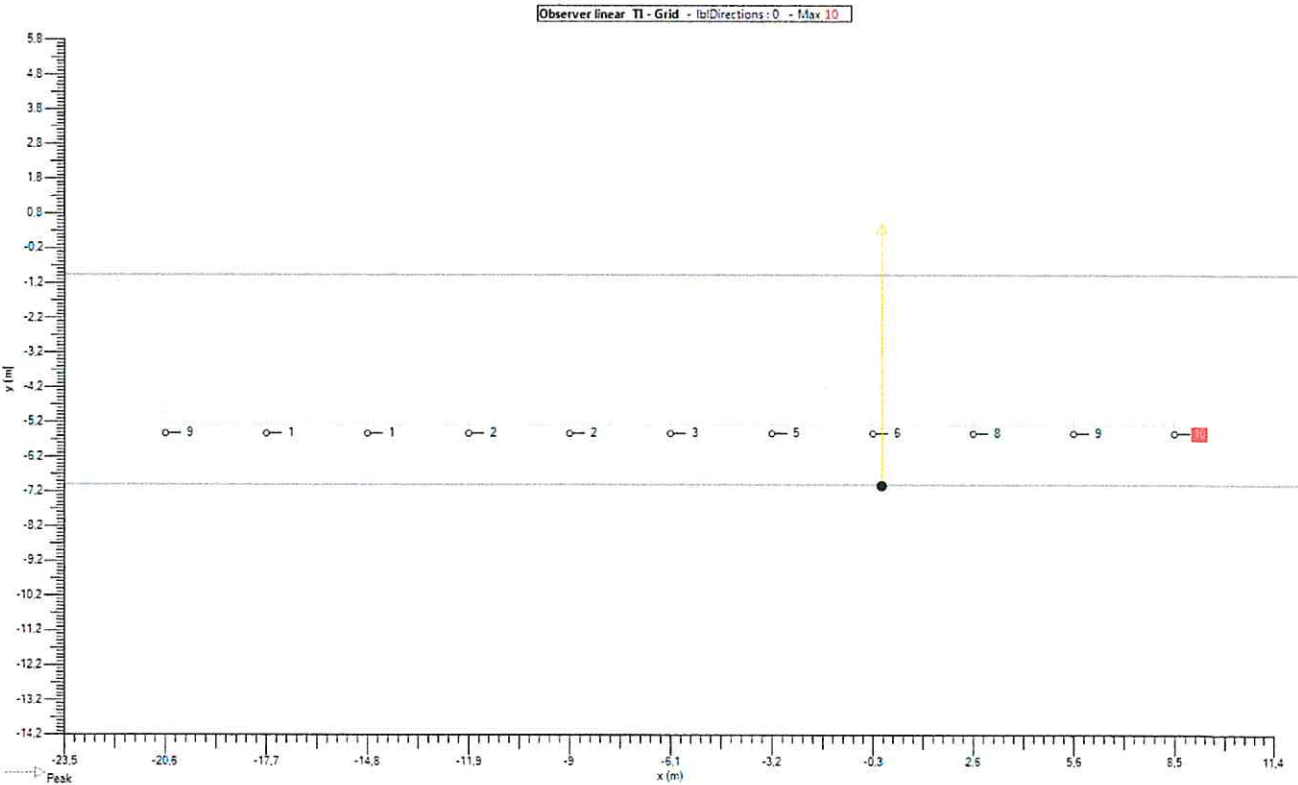
Multi-lanes (LU) - Optional - Absolute 2



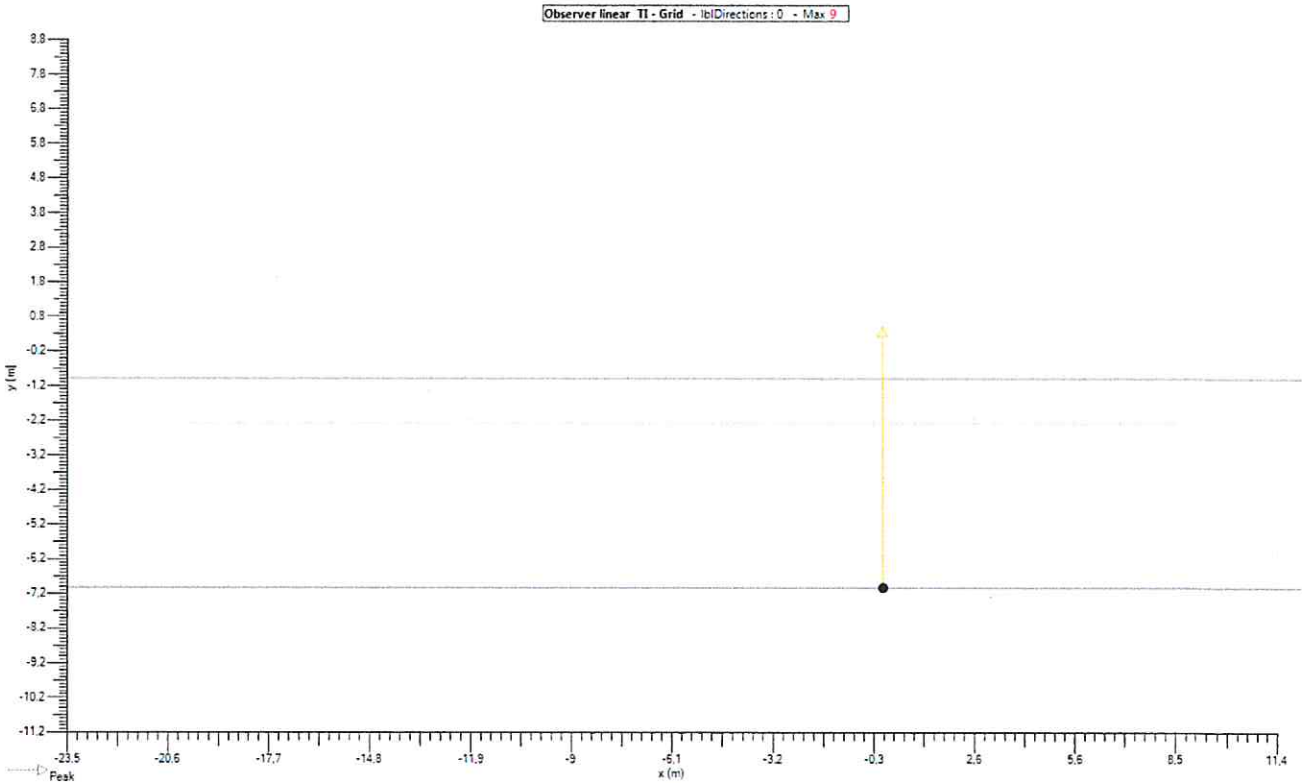
6.6. Multi-lanes (TI 1) - TI - Grid  
Implantation



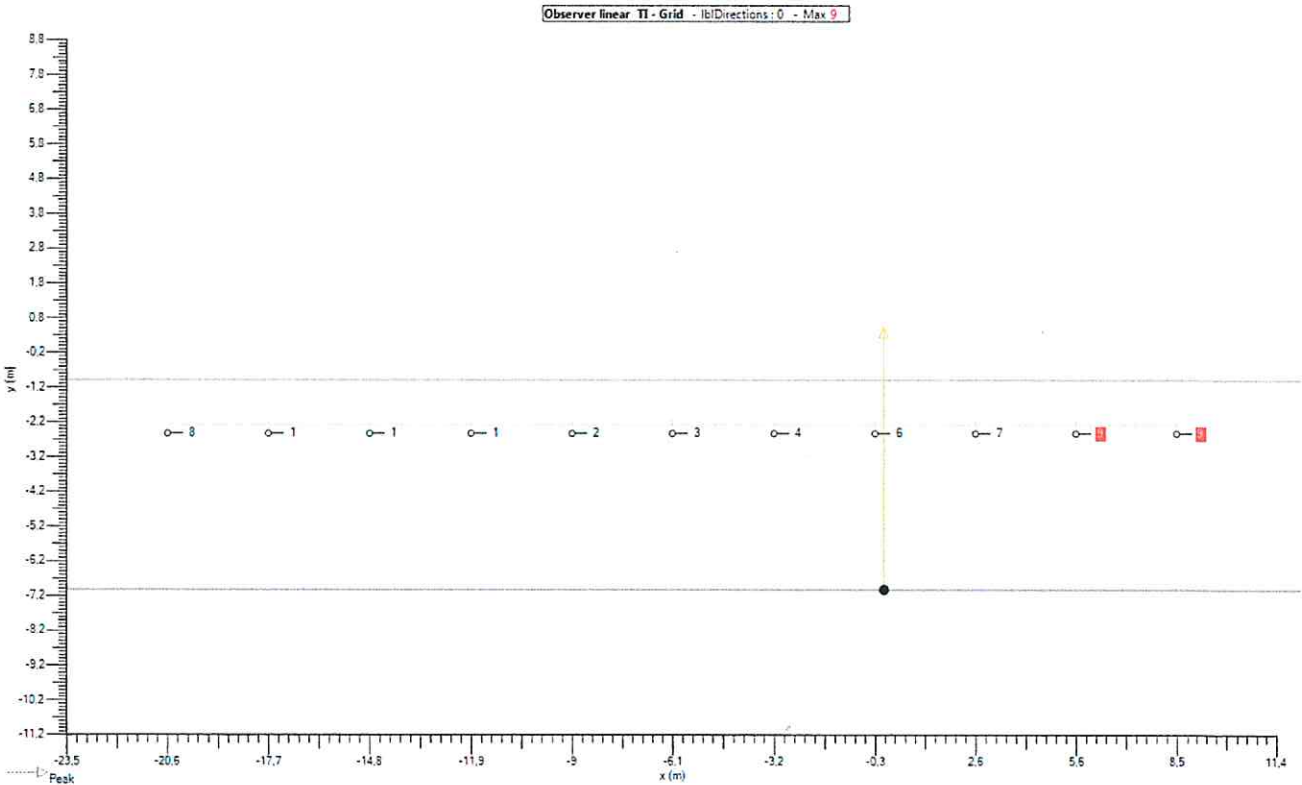
Values



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 -5,50 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 6	
			Spacing X 2,91 m	Spacing Y 1,00 m	
			Size X 29,09 m	Size Y 5,00 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 -4,50 m	Z 1,50 m
Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Dimension	Count 11	Spacing 2,91 m	Size 29,09 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 -1,50 m	Z 1,50 m
Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Dimension	Count 11	Spacing 2,91 m	Size 29,09 m