

# Comune di Quarrata - Via di Mezzo

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**Standard** EN 13201 : 2015

**Designer** Studio Tecnico

**Date** 21/03/2022

**Application** Ulysse 3.5.2

**Description** Verifica Illuminotecnica Via di Mezzo

Categoria M3 : strada urbana di quartiere

Teceo 1 32led 900mA 90W ottica 5248

## Table of contents

1.	Fixtures .....	3
1.1.	TECEO GEN2 1 32 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702.....	3
2.	Photometric documents.....	4
2.1.	TECEO GEN2 1 32 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702.....	4
3.	Results .....	5
3.1.	Grid summary .....	5
3.2.	Observer summary .....	5
3.3.	Values summary .....	5
4.	Power consumption .....	5
4.1.	Dynamic cross section .....	5
5.	Cross section.....	6
5.1.	2D View.....	6
6.	Dynamic cross section .....	7
6.1.	Matrix description .....	7
6.2.	Luminaire positions .....	7
6.3.	Luminaire groups .....	7
6.4.	Luminance - Multi-lanes (LU) - C2007.....	8
6.5.	Luminance - Multi-lanes (LU) - C2007.....	10
6.6.	Multi-lanes (TI 1) - TI - Grid.....	12
6.7.	Multi-lanes (TI 2) - TI - Grid.....	13
7.	Grids .....	14
7.1.	Multi-lanes (LU) .....	14
8.	Observer.....	15
8.1.	Multi-lanes (TI 1).....	15
8.2.	Multi-lanes (TI 2).....	15

## 1. Fixtures

### 1.1. TECEO GEN2 1 32 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702

Type TECEO GEN2 1

Reflector 5248

Source 32 LEDs 900mA WW730

Protector Piano, Vetro extra chiaro, Liscio

Source flux 12,319 klm

G\* 2

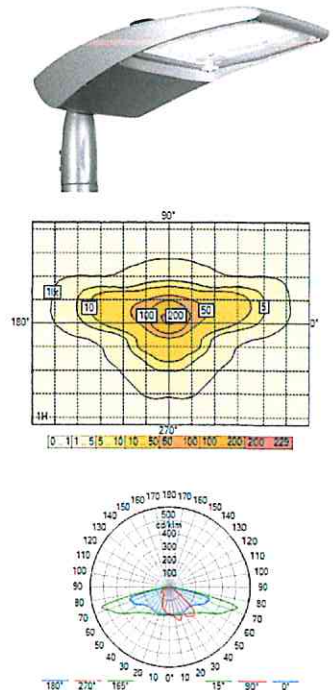
Luminaire wattage 91,0 W

MF 0,80

Matrix 468702

Luminaire flux 9,721 klm

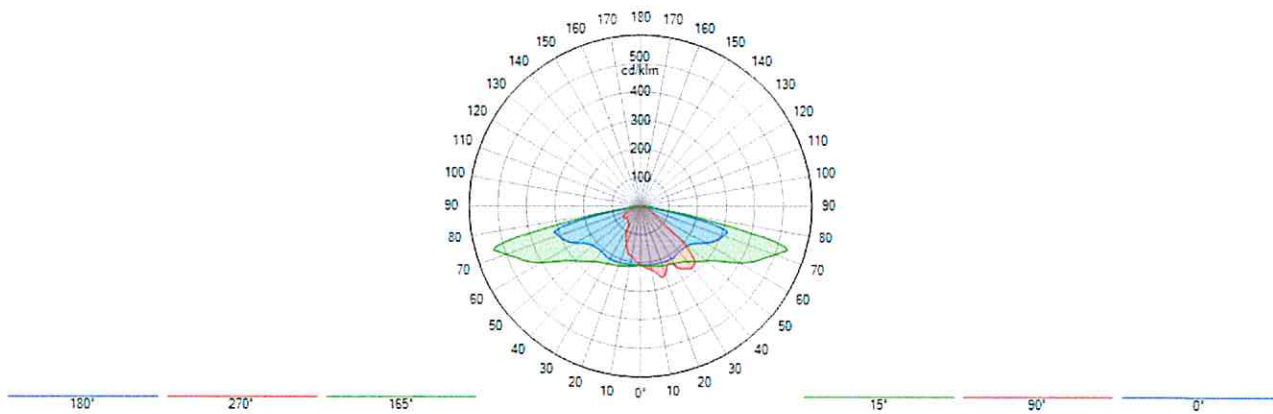
Efficacy 107 lm/W



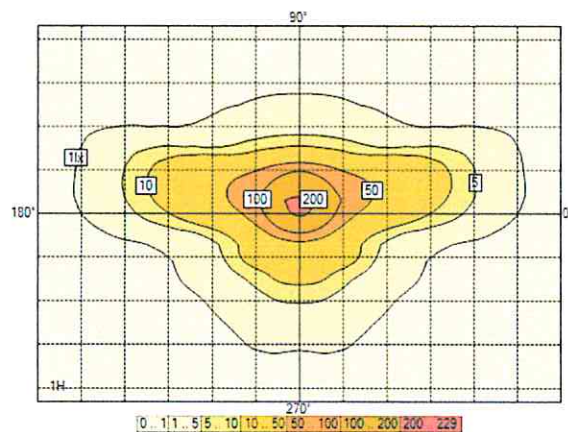
## 2. Photometric documents

### 2.1. TECEO GEN2 1 32 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702

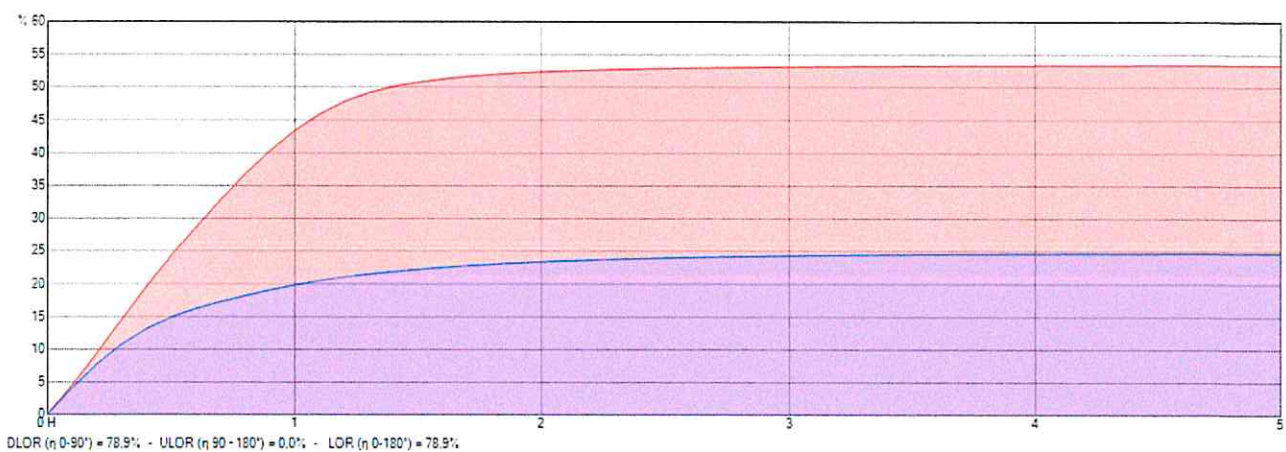
Polar/Cartesian diagram



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; -6,75; 1,50)	1,00	45	28	0,45	1,61	85 %	✓
Dynamic cross section - Observer 2 (-60,00; -2,25; 1,50)	1,10	44	27	0,48	1,78	75 %	✓

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; -6,75; 1,50)	1,00	45	28	0,45	1,61	85 %	✓
Dynamic cross section - Observer 2 (-60,00; -2,25; 1,50)	1,10	44	27	0,48	1,78	75 %	✓

#### 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)	12	✓

##### 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)	8	✓

#### 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)	0,38	✓

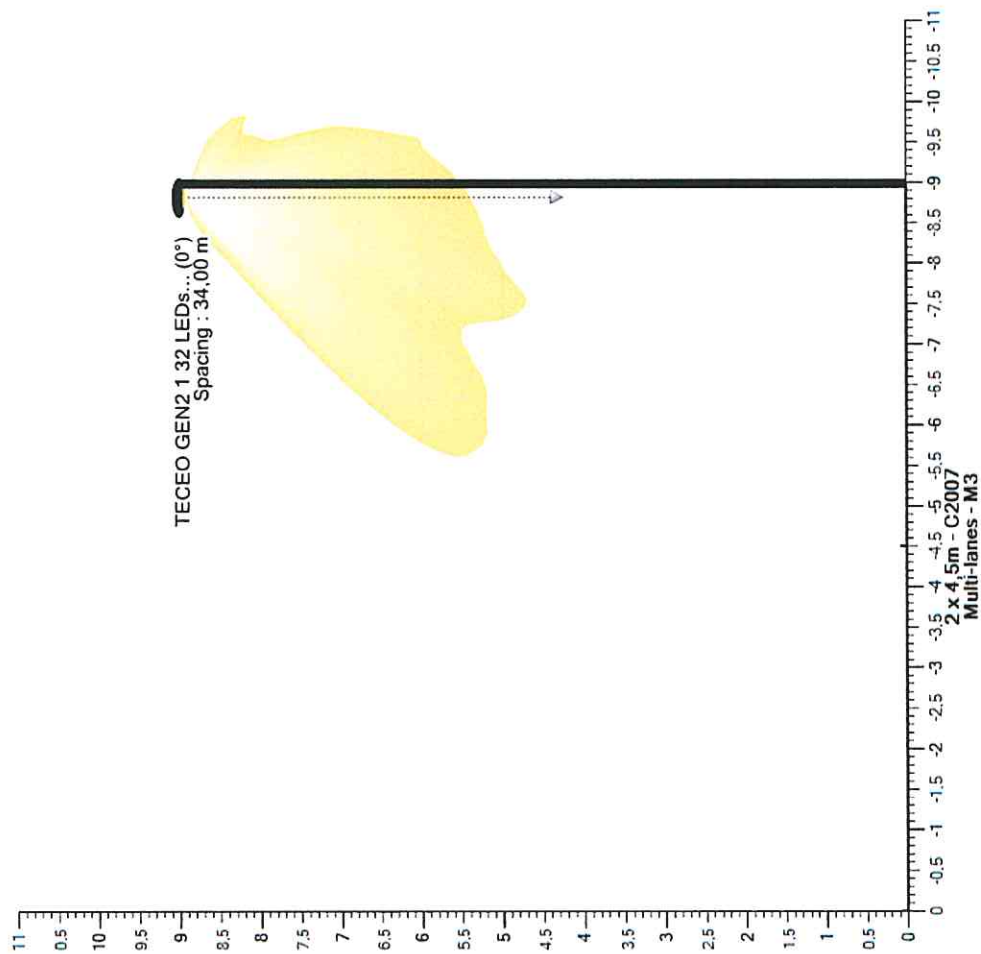
### 4. Power consumption

#### 4.1. Dynamic cross section

Fixture	Current [mA]	Qty	Dimming	Power / Fixture	Total
TECEO GEN2 1 32 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	900	29	100 %	91 W	2689 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 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	900	12,319	9,721	91,4	106	0,800	6 x 9,00	

### 6.2. Luminaire positions

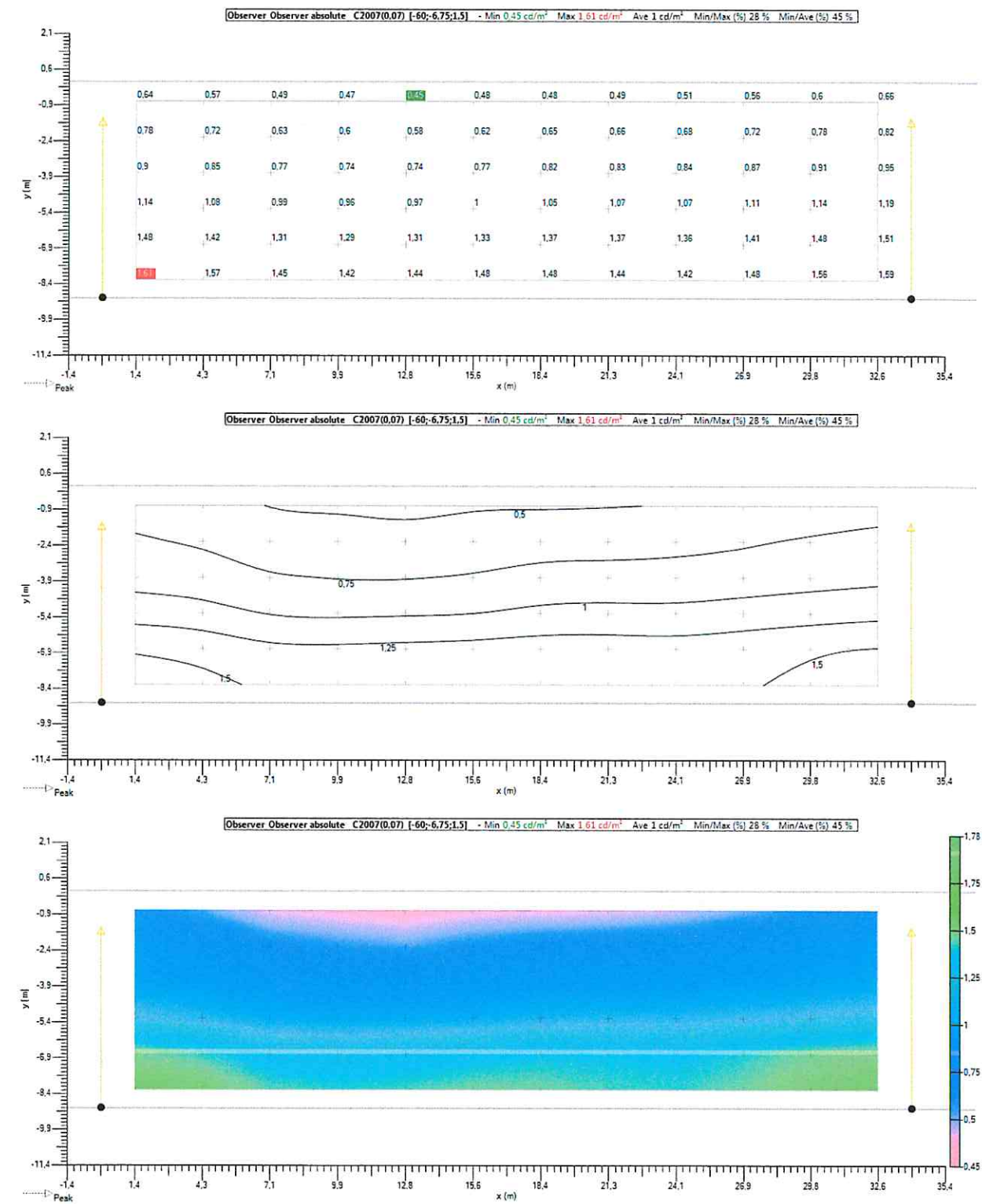
	Color	N°	Position			Luminaire							Target		
			X [m]	Y [m]	Z [m]	Name	Current [mA]	Az [°]	Incl [°]	Rot [°]	Flux [klm]	MF	X [m]	Y [m]	Z [m]
<input checked="" type="checkbox"/>		1	-34,00	-9,00	9,00	TECEO GEN2 1 32 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	12,319	0,800	-34,00	-9,00	0,00
<input checked="" type="checkbox"/>		2	0,00	-9,00	9,00	TECEO GEN2 1 32 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	12,319	0,800	0,00	-9,00	0,00
<input checked="" type="checkbox"/>		3	34,00	-9,00	9,00	TECEO GEN2 1 32 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	12,319	0,800	34,00	-9,00	0,00
<input checked="" type="checkbox"/>		4	68,00	-9,00	9,00	TECEO GEN2 1 32 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	12,319	0,800	68,00	-9,00	0,00
<input checked="" type="checkbox"/>		5	102,00	-9,00	9,00	TECEO GEN2 1 32 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	12,319	0,800	102,00	-9,00	0,00
<input checked="" type="checkbox"/>		6	136,00	-9,00	9,00	TECEO GEN2 1 32 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	12,319	0,800	136,00	-9,00	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	-34,00	-9,00	9,00	Fixture right	0,0	0,0	0,0	100	6	34,00	170,00	0,0	0,0	0,0

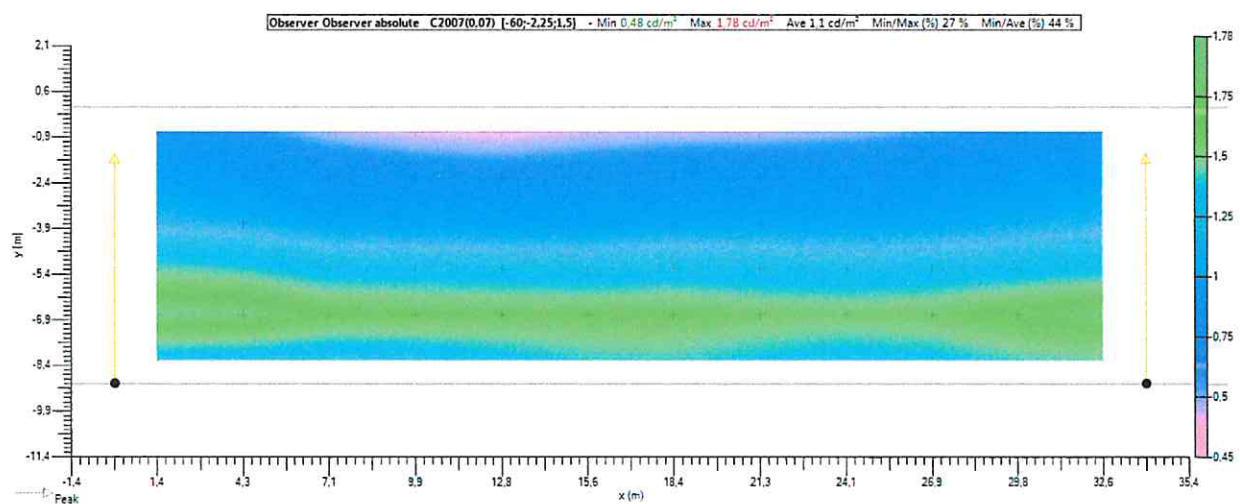
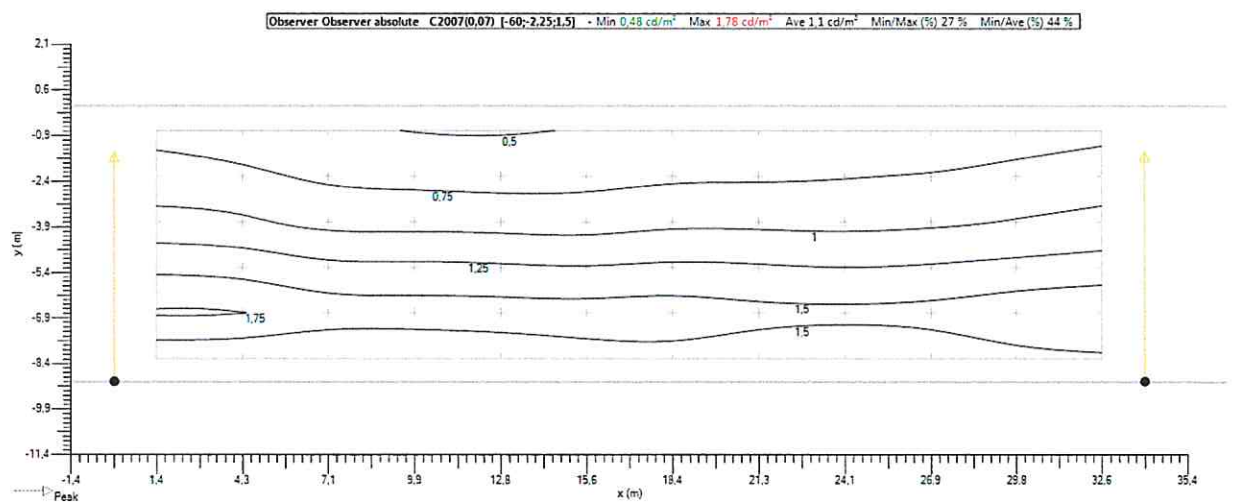
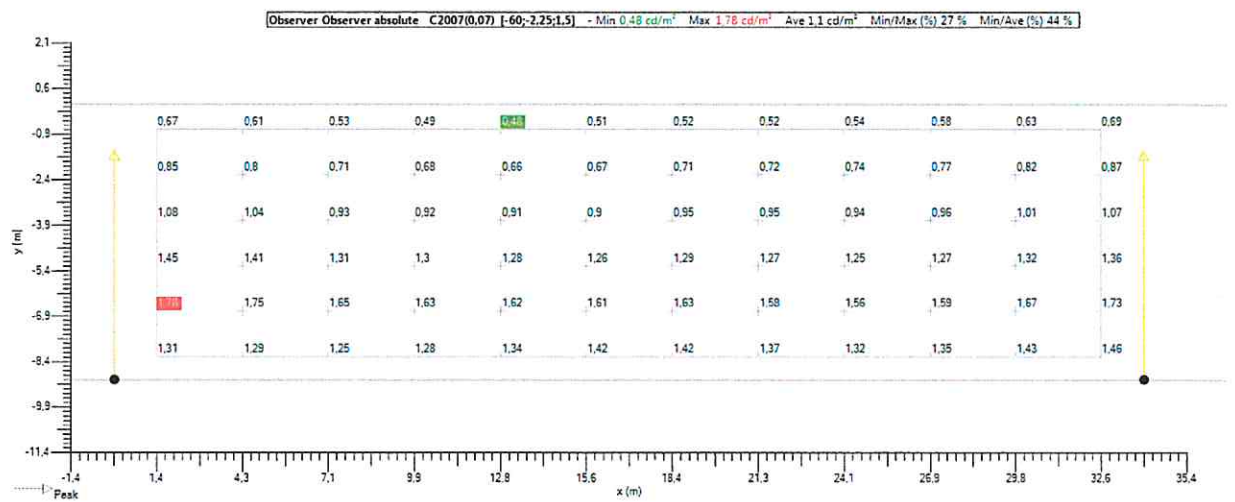
6.4. Luminance - Multi-lanes (LU) - C2007

Multi-lanes (LU) - Absolute 1



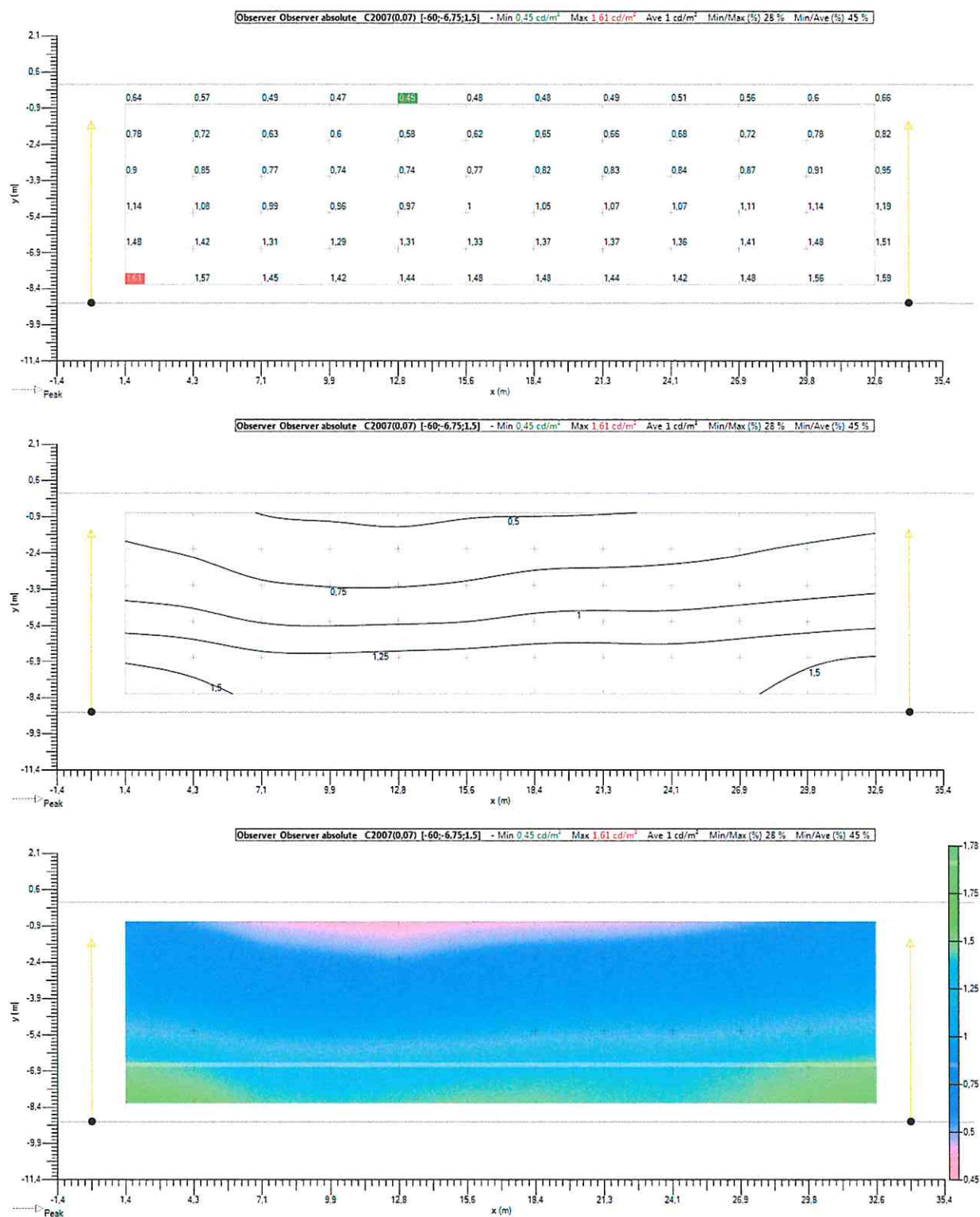


## Multi-lanes (LU) - Absolute 2

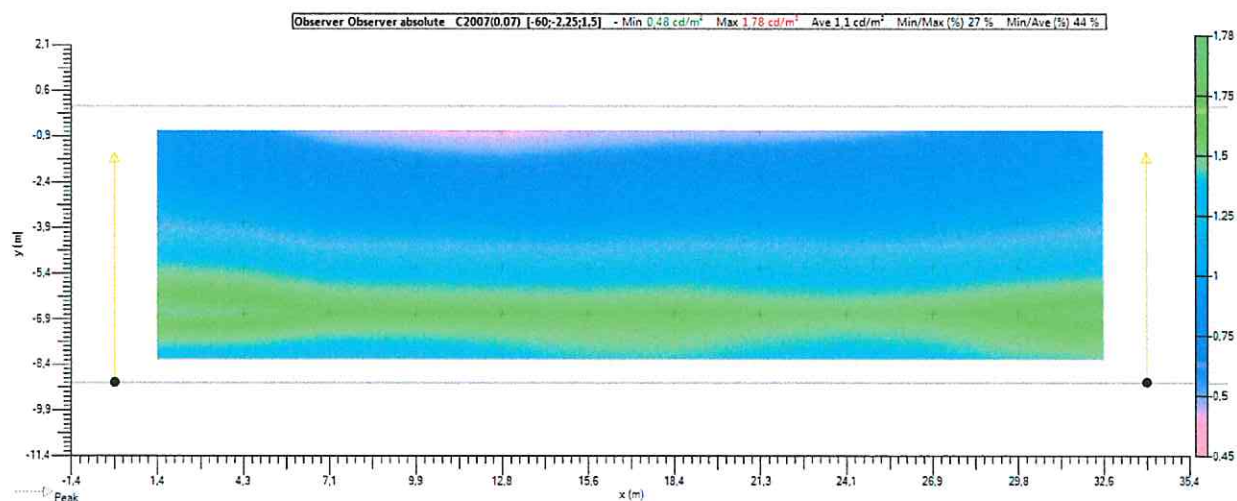
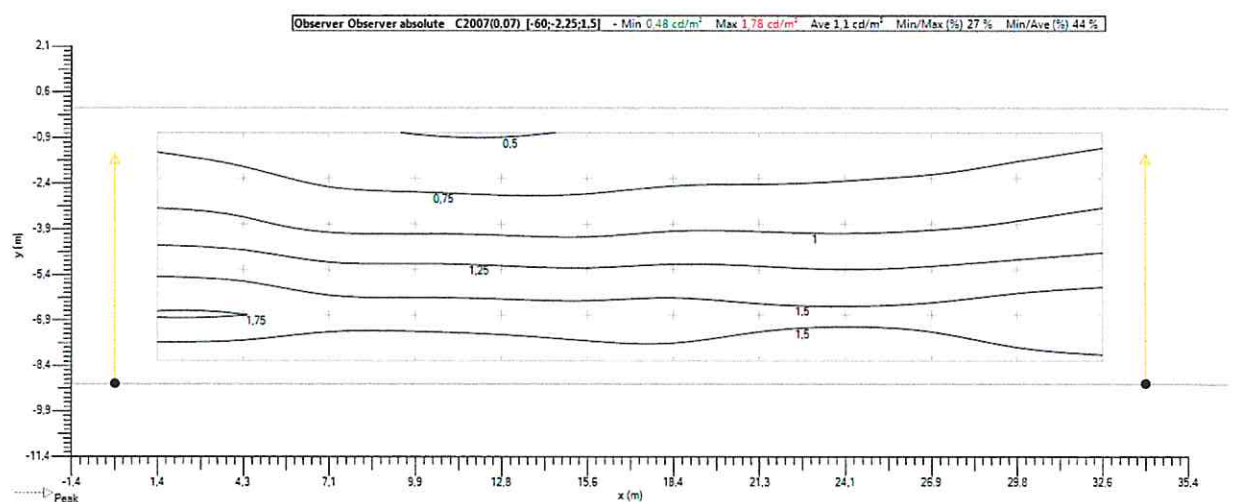
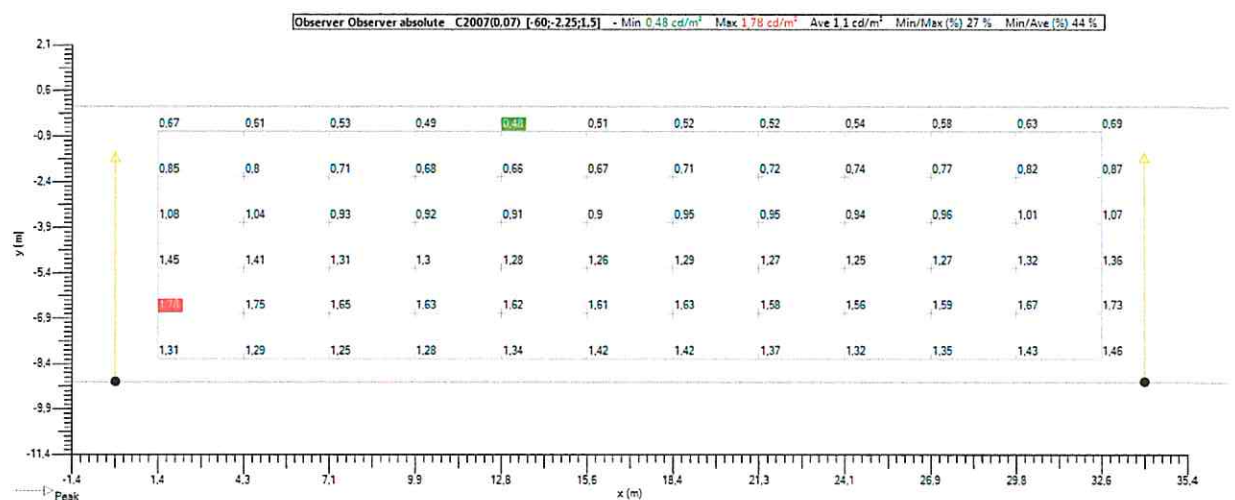


## 6.5. Luminance - Multi-lanes (LU) - C2007

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

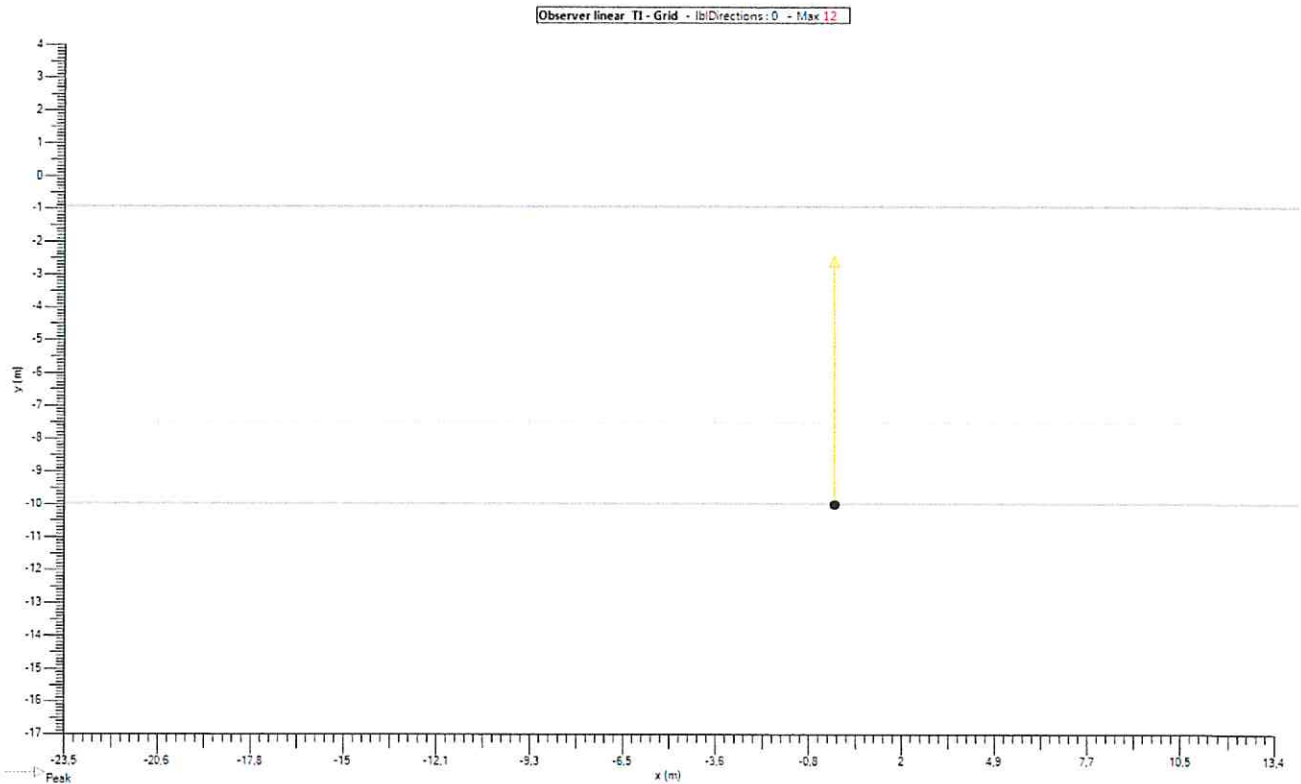


## Multi-lanes (LU) - Optional - Absolute 2

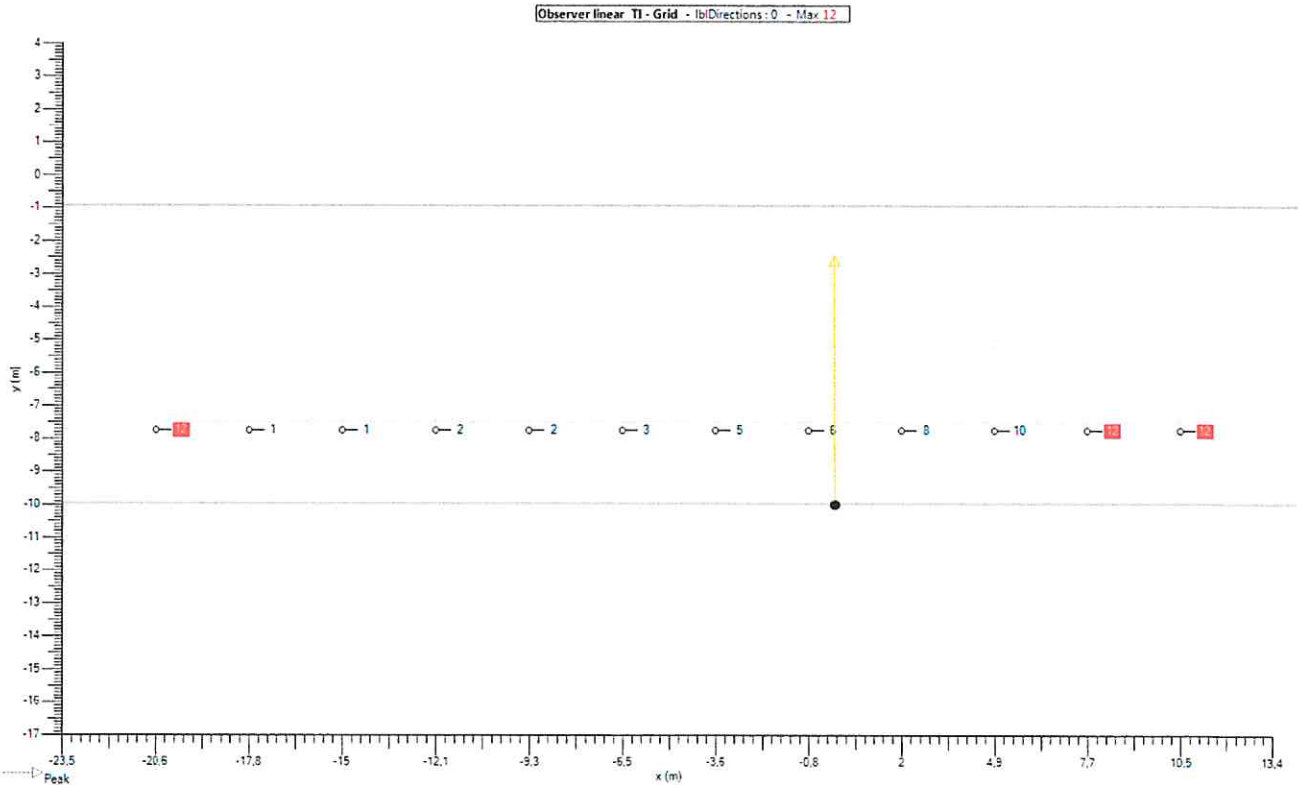


6.6. Multi-lanes (TI 1) - TI - Grid

Implantation

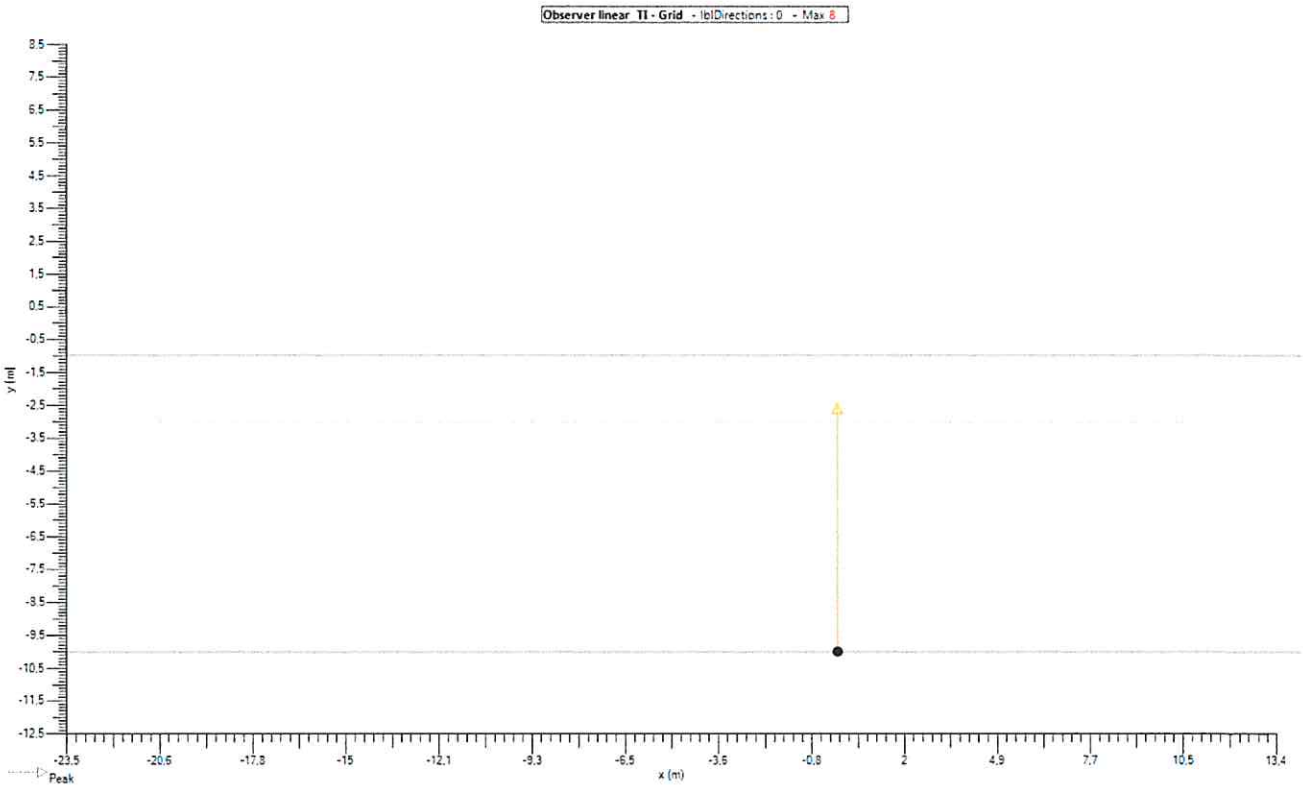


Values

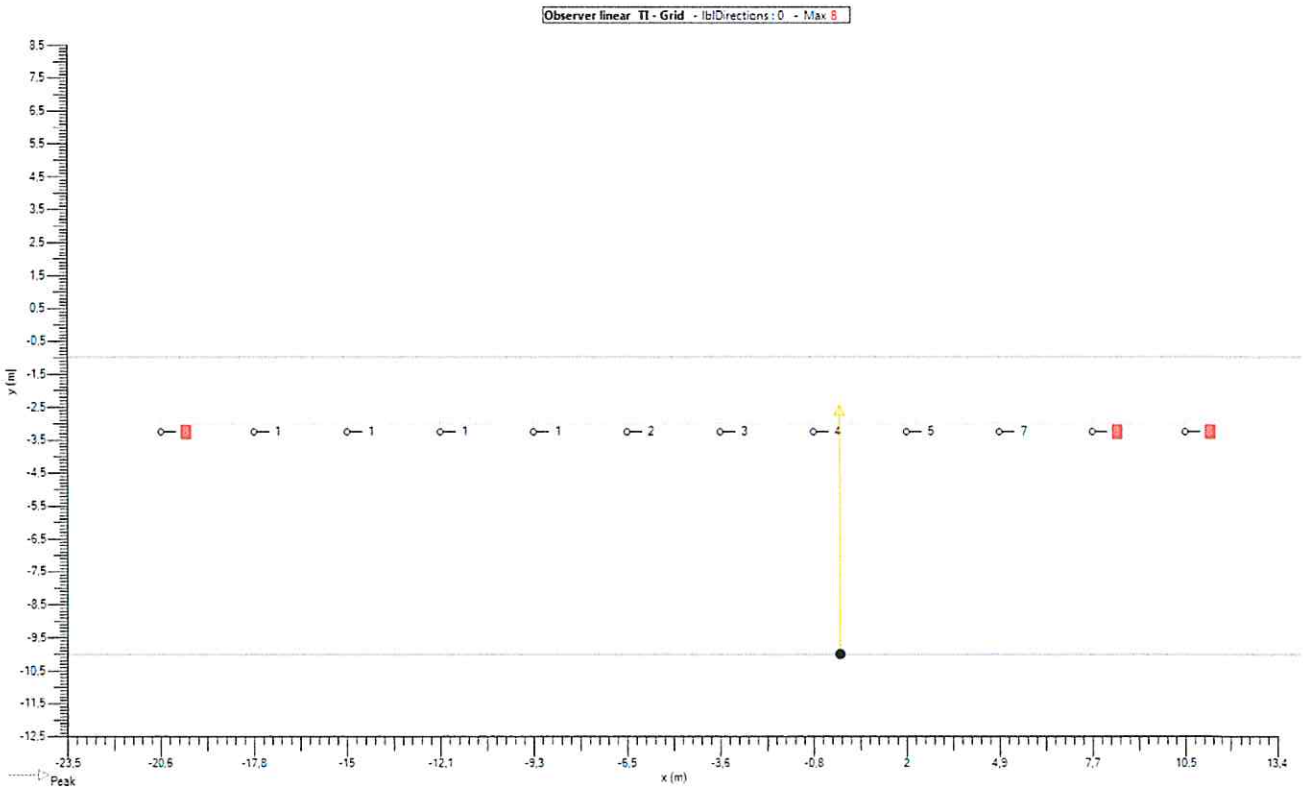


# 6.7. Multi-lanes (TI 2) - TI - Grid

## Implantation



## Values




## 7. Grids

### 7.1. Multi-lanes (LU)

**General**

Type Grid rectangular XY

Enabled ☒

Colour 

**Geometry**


Origin	X 1,42 m	Y -8,25 m	Z 0,00 m
Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Dimension	Count X 12	Count Y 6	
	Spacing X 2,83 m	Spacing Y 1,50 m	
	Size X 31,17 m	Size Y 7,50 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 -6,75 m	Z 1,50 m
Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Dimension	Count 12	Spacing 2,83 m	Size 31,17 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 -2,25 m	Z 1,50 m
Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Dimension	Count 12	Spacing 2,83 m	Size 31,17 m