

# Comune di Quarrata - Via Firenze (tratto da Via Statale)

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**Standard** EN 13201 : 2015

**Designer** Studio Tecnico

**Date** 22/03/2022

**Application** Ulysse 3.5.2

**Description** Verifica Illuminotecnica Via Firenze

Categoria M2 : strada di collegamento

Teceo 1 48led 800mA 5248

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## 1. Fixtures

### 1.1. TECEO GEN2 1 48 LEDs 800mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702

Type TECEO GEN2 1

Reflector 5248

Source 48 LEDs 800mA WW730

Protector Piano, Vetro extra chiaro, Liscio

Source flux 16,924 klm

G\* 2

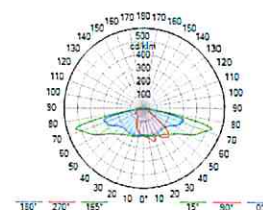
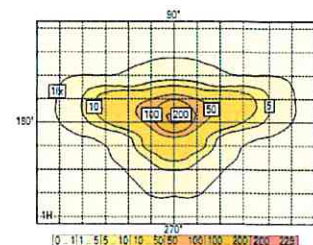
Luminaire wattage 119,0 W

MF 0,80

Matrix 468702

Luminaire flux 13,354 klm

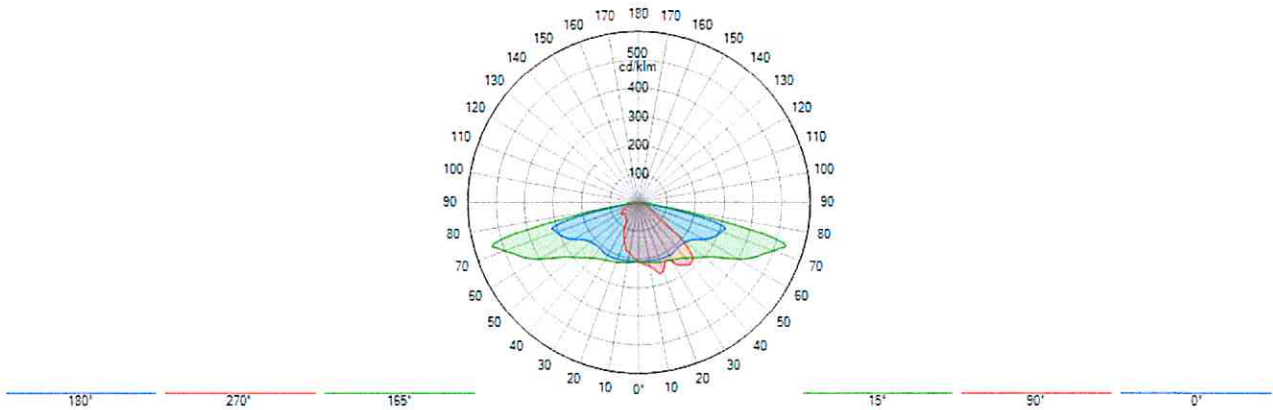
Efficacy 112 lm/W



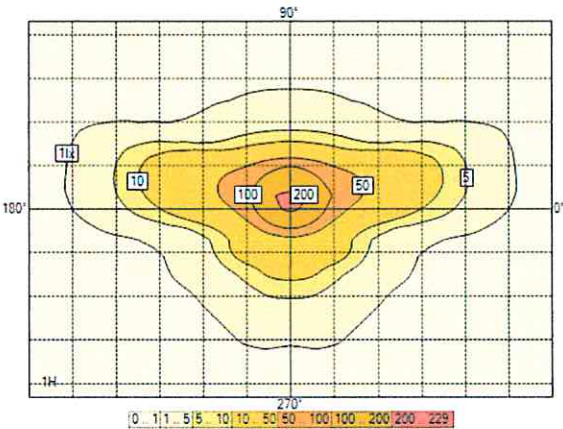
## 2. Photometric documents

### 2.1. TECEO GEN2 1 48 LEDs 800mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702

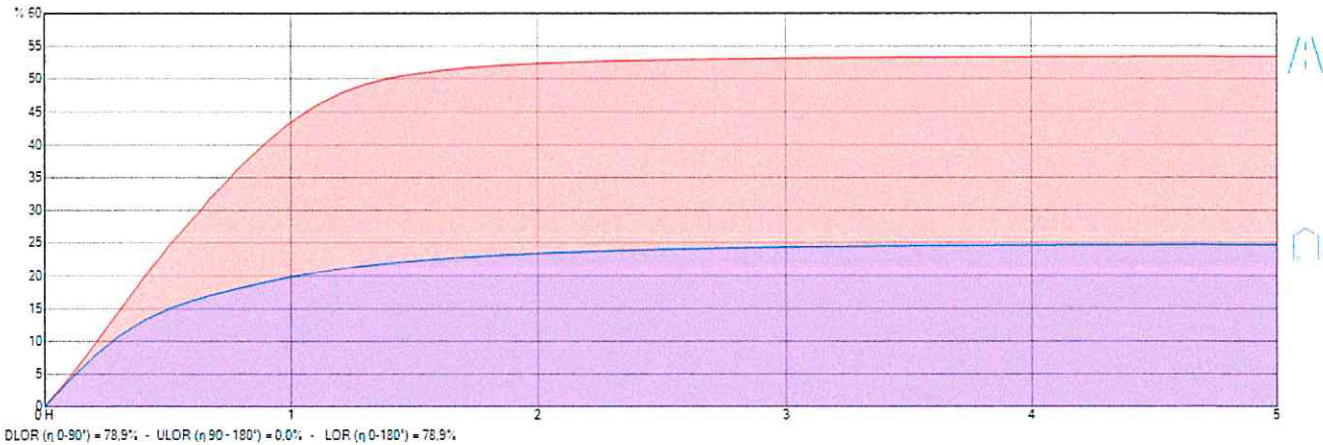
Polar/Cartesian diagram



#### Isolux



#### Utilization curve



### 3. Results

#### 3.1. Grid summary

##### Multi-lanes (LU)

M2 (LU : Ave = 1,50 cd/m<sup>2</sup> Uo = 40 % UI = 70 % UoW = 15 % TI : 10 % EIR : 0,35)

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)	1,62	54	37	0,87	2,38	93 %	✓
Dynamic cross section - Observer 2 (-60,00; -2,25; 1,50)	1,79	53	36	0,94	2,62	90 %	✓

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)	1,62	54	37	0,87	2,38	93 %	✓
Dynamic cross section - Observer 2 (-60,00; -2,25; 1,50)	1,79	53	36	0,94	2,62	90 %	✓

#### 3.2. Observer summary

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

M2 (LU : Ave = 1,50 cd/m<sup>2</sup> Uo = 40 % UI = 70 % UoW = 15 % TI : 10 % EIR : 0,35)

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

##### Multi-lanes (TI 2)

M2 (LU : Ave = 1,50 cd/m<sup>2</sup> Uo = 40 % UI = 70 % UoW = 15 % TI : 10 % EIR : 0,35)

	TI	
Dynamic cross section - Direction (0,0)	7	✓

#### 3.3. Values summary

##### EIR road

M2 (LU : Ave = 1,50 cd/m<sup>2</sup> Uo = 40 % UI = 70 % UoW = 15 % TI : 10 % EIR : 0,35)

	EIR road	
Dynamic cross section - Multi-lanes (EIR)	0,51	✓

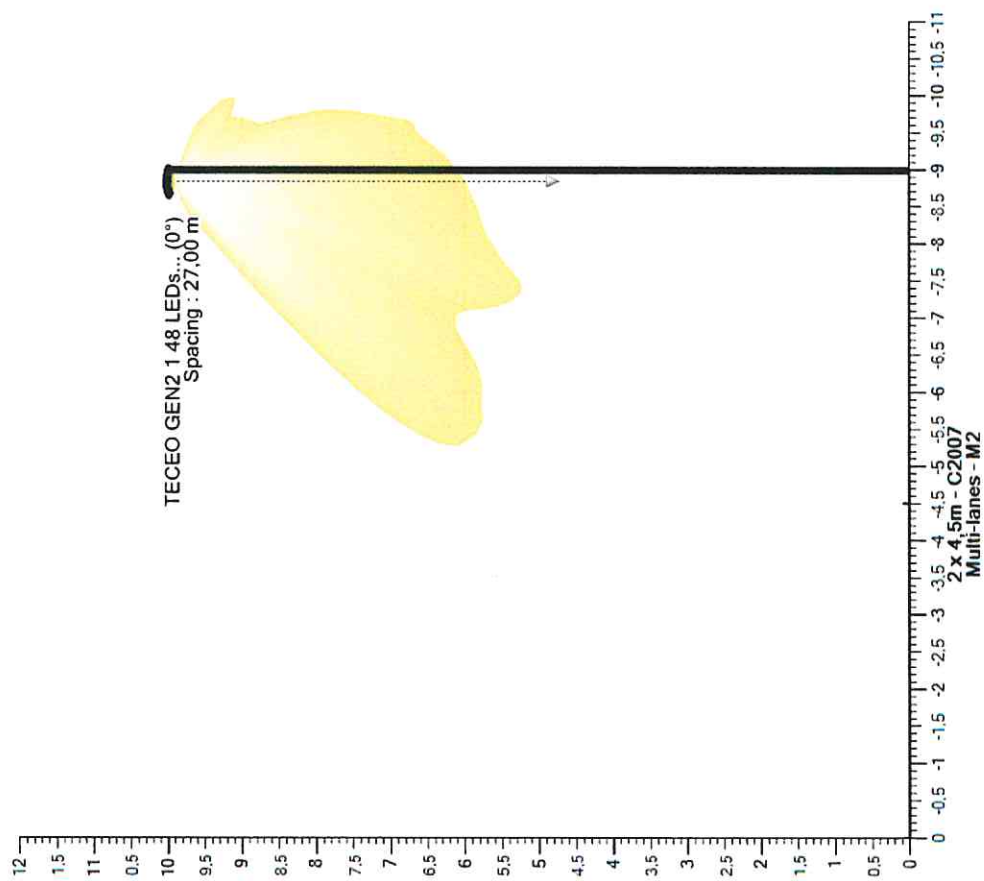
### 4. Power consumption

#### 4.1. Dynamic cross section

Fixture	Current [mA]	Qty	Dimming	Power / Fixture	Total
TECEO GEN2 1 48 LEDs 800mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	800	37	100 %	119 W	4397 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 48 LEDs 800mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	800	16,924	13,354	118,7	112	0,800	7 x 10,00	

### 6.2. Luminaire positions

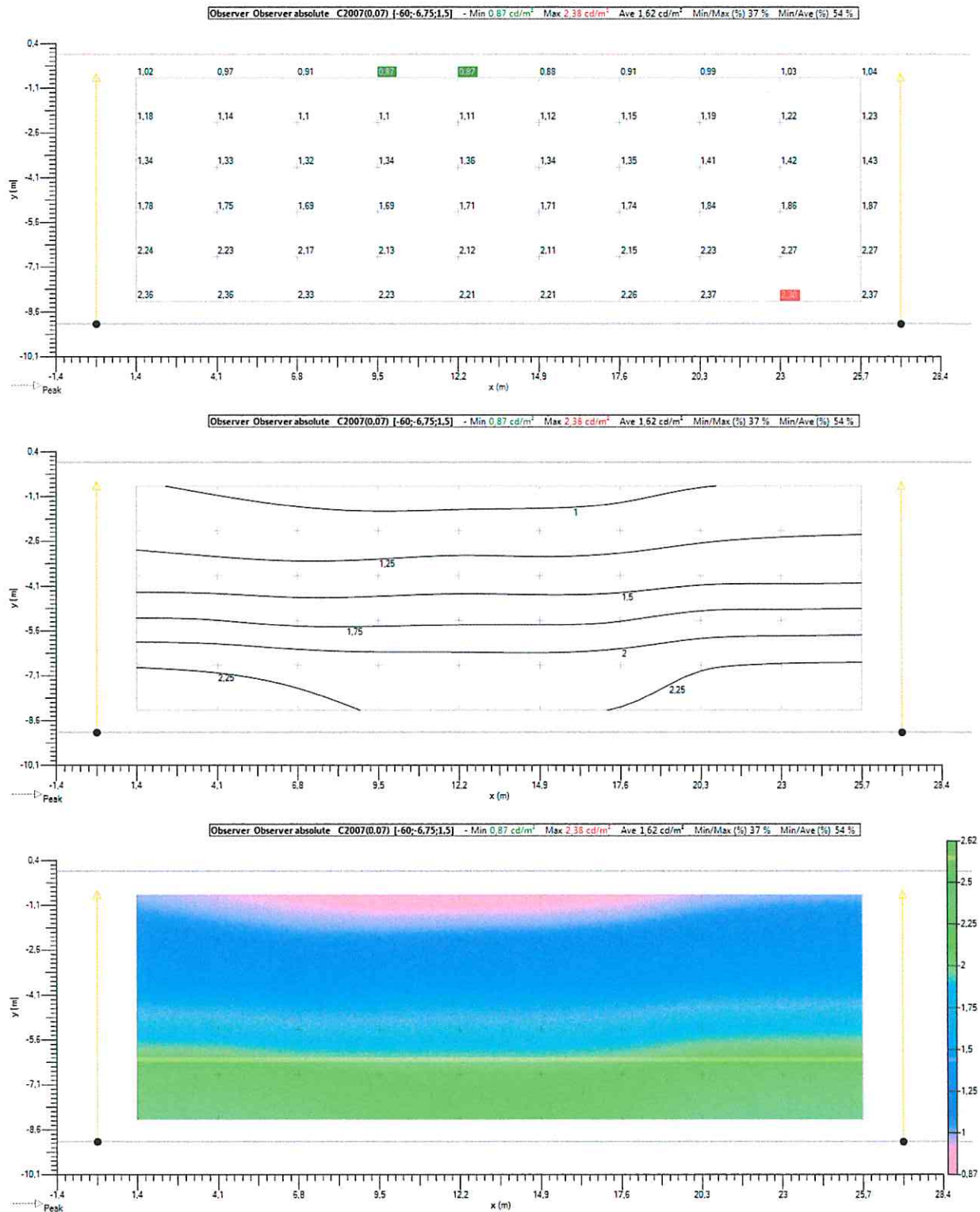
	Color	N°	Position			Luminaire							Target		
			X [m]	Y [m]	Z [m]	Name	Current [mA]	Az [°]	Incl [°]	Rot [°]	Flux [klm]	MF	X [m]	Y [m]	Z [m]
<input checked="" type="checkbox"/>		1	-27,00	-9,00	10,00	TECEO GEN2 1 48 LEDs 800mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	16,924	0,800	-27,00	-9,00	0,00
<input checked="" type="checkbox"/>		2	0,00	-9,00	10,00	TECEO GEN2 1 48 LEDs 800mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	16,924	0,800	0,00	-9,00	0,00
<input checked="" type="checkbox"/>		3	27,00	-9,00	10,00	TECEO GEN2 1 48 LEDs 800mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	16,924	0,800	27,00	-9,00	0,00
<input checked="" type="checkbox"/>		4	54,00	-9,00	10,00	TECEO GEN2 1 48 LEDs 800mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	16,924	0,800	54,00	-9,00	0,00
<input checked="" type="checkbox"/>		5	81,00	-9,00	10,00	TECEO GEN2 1 48 LEDs 800mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	16,924	0,800	81,00	-9,00	0,00
<input checked="" type="checkbox"/>		6	108,00	-9,00	10,00	TECEO GEN2 1 48 LEDs 800mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	16,924	0,800	108,00	-9,00	0,00
<input checked="" type="checkbox"/>		7	135,00	-9,00	10,00	TECEO GEN2 1 48 LEDs 800mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	16,924	0,800	135,00	-9,00	0,00

### 6.3. Luminaire groups

Llinear																
	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	-27,00	-9,00	10,00	Fixture right	0,0	0,0	0,0	100	7	27,00	162,00	0,0	0,0	0,0

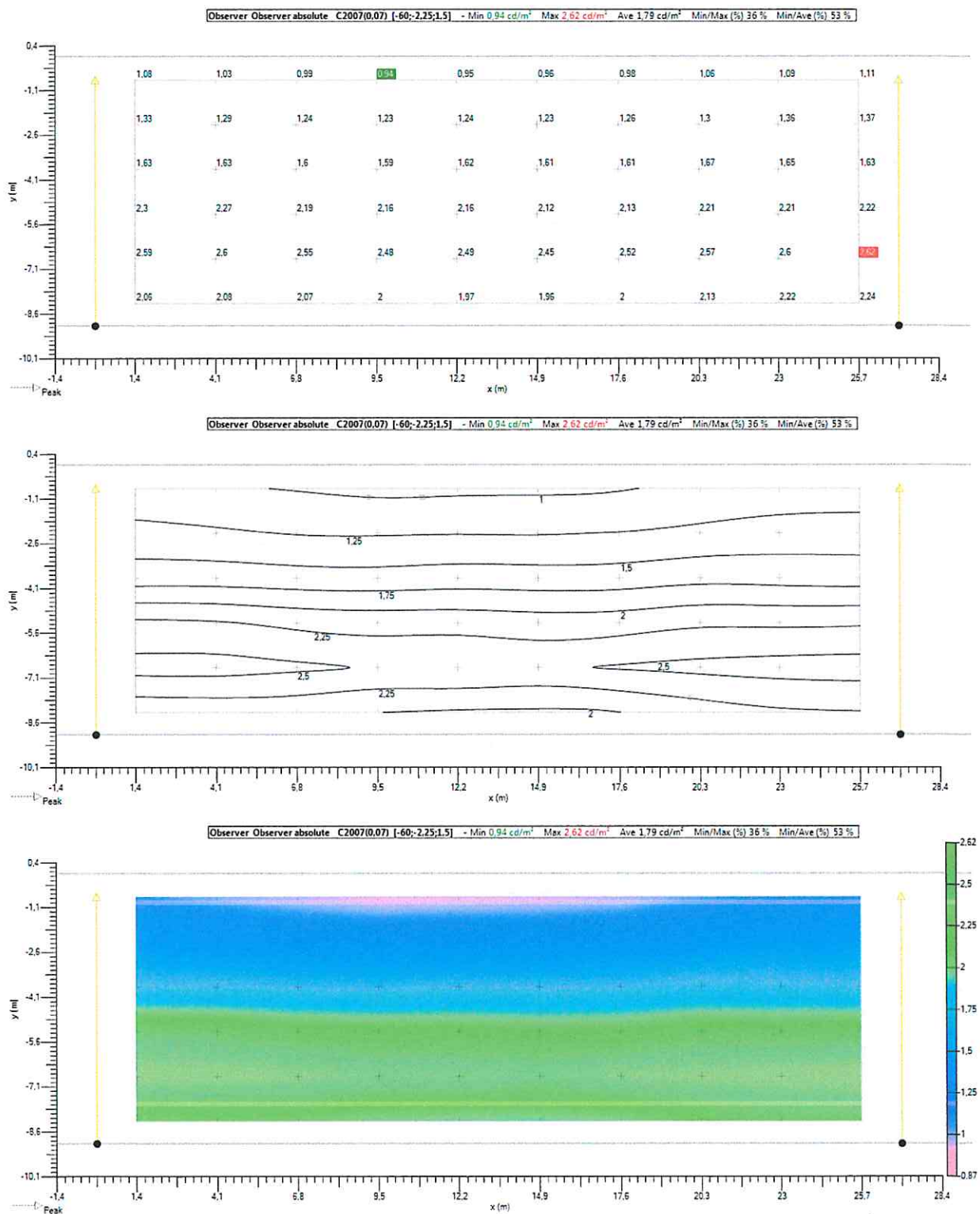
6.4. Luminance - Multi-lanes (LU) - C2007

Multi-lanes (LU) - Absolute 1



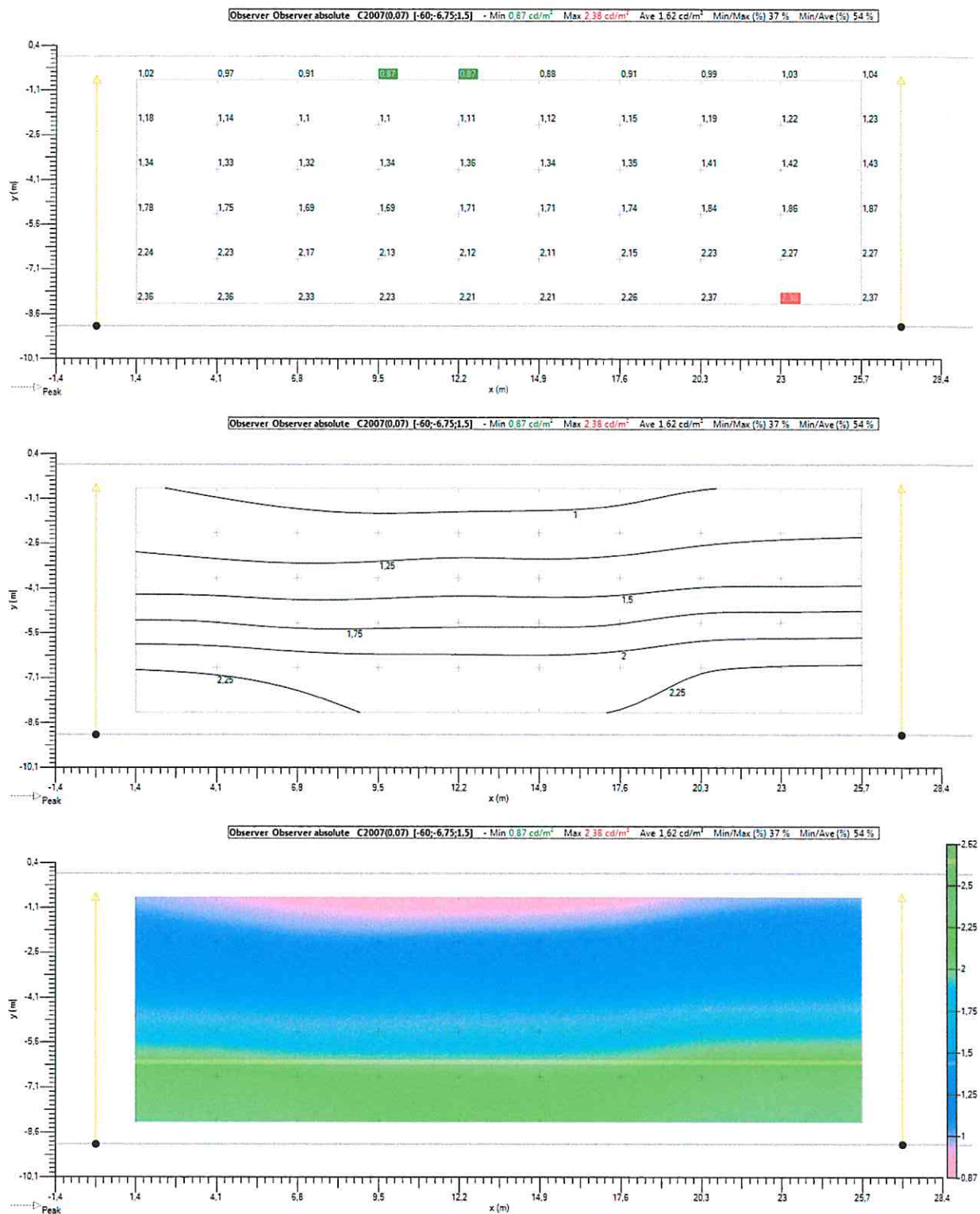


## Multi-lanes (LU) - Absolute 2

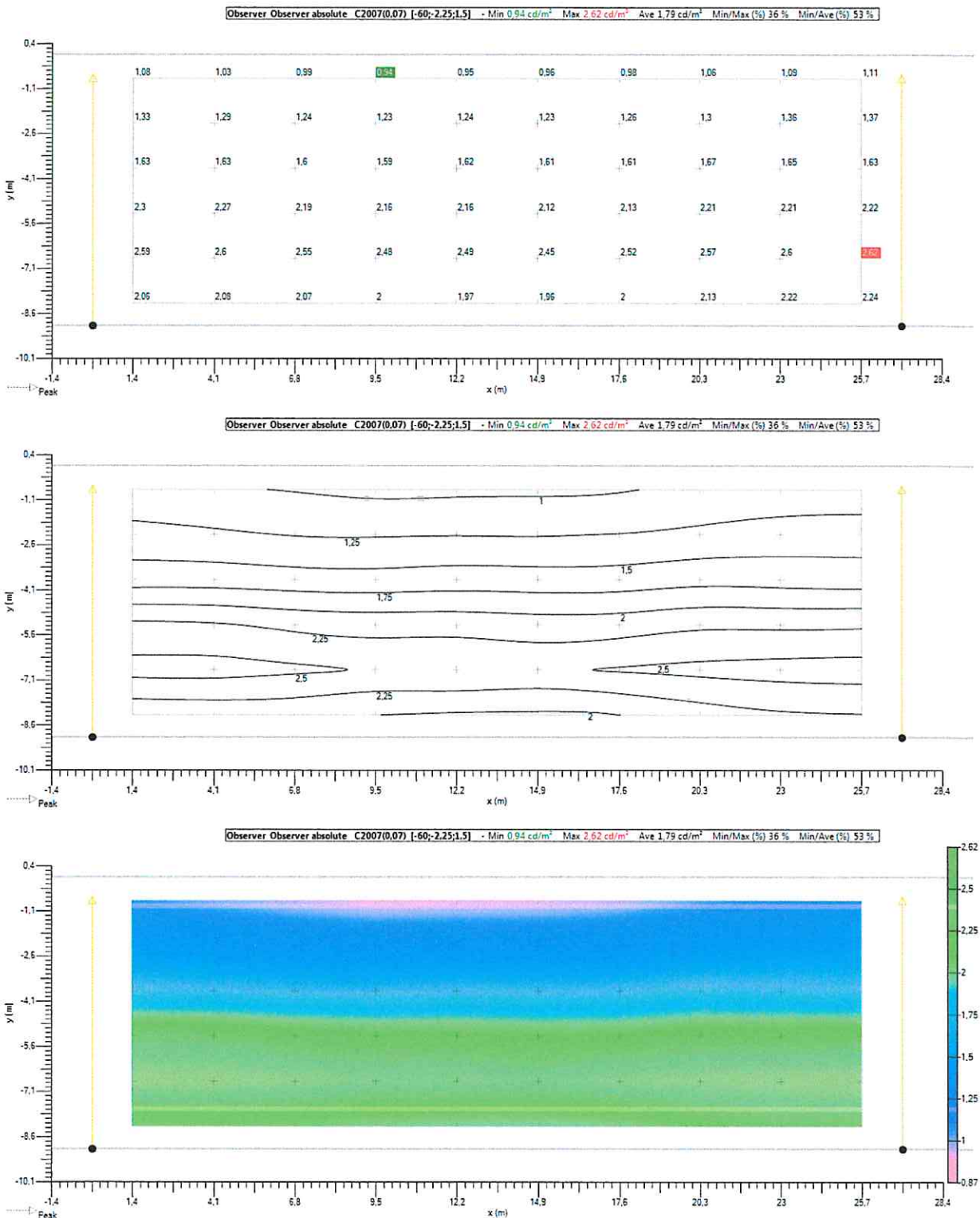


## 6.5. Luminance - Multi-lanes (LU) - C2007

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

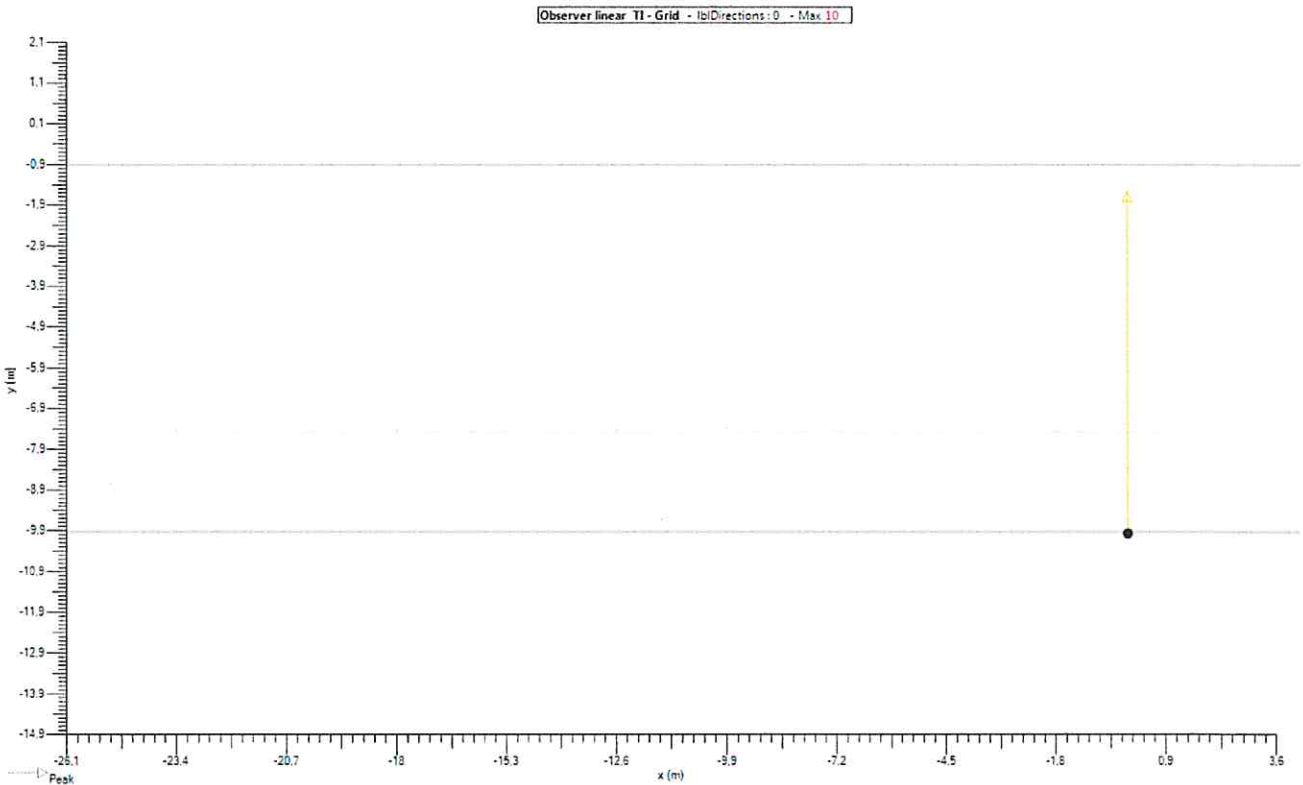


Multi-lanes (LU) - Optional - Absolute 2

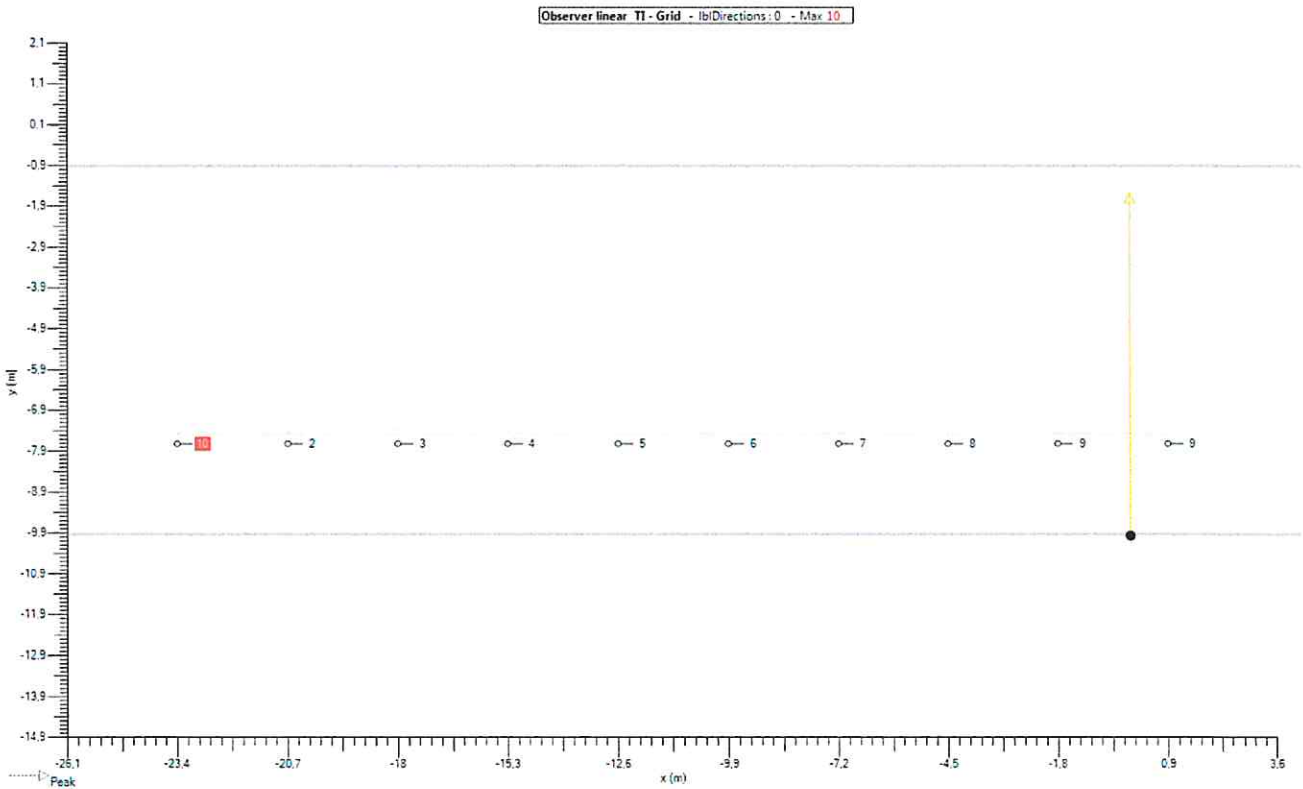


# 6.6. Multi-lanes (TI 1) - TI - Grid

## Implantation

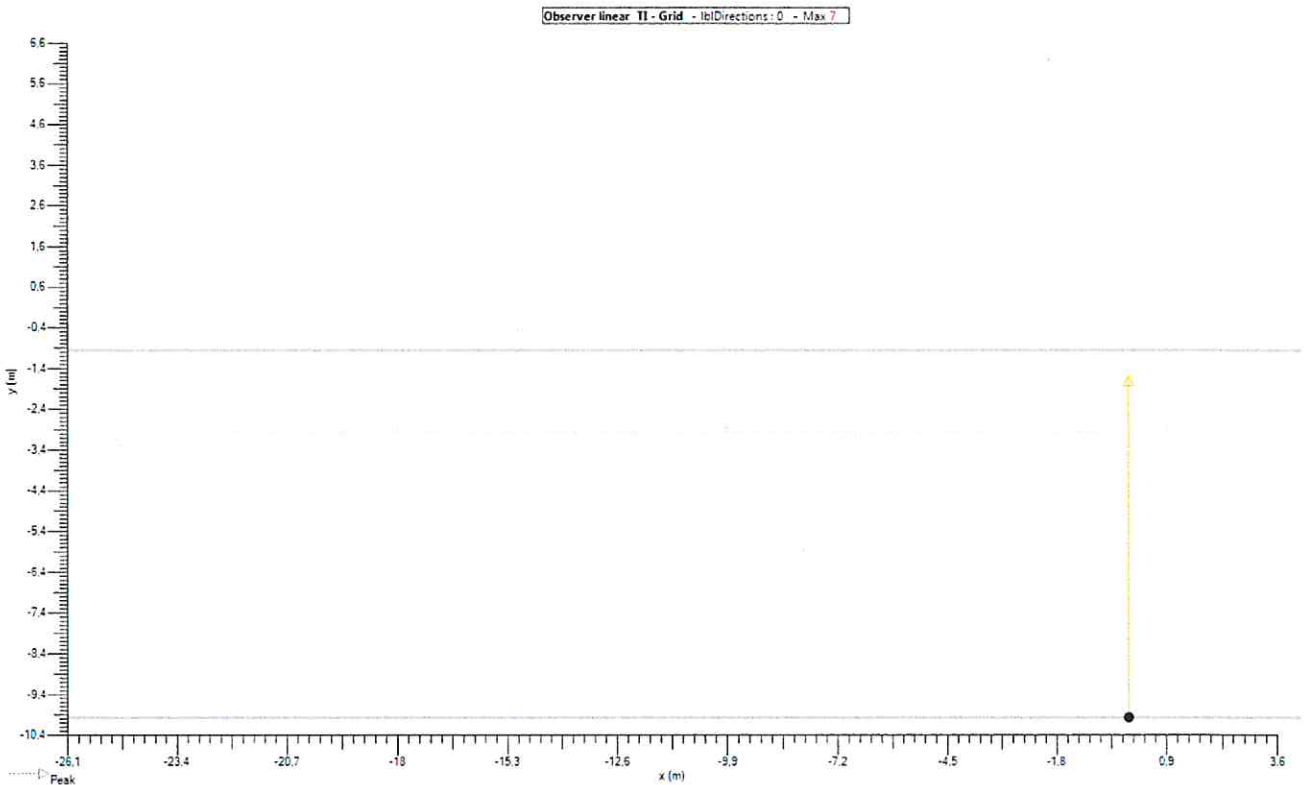


## Values

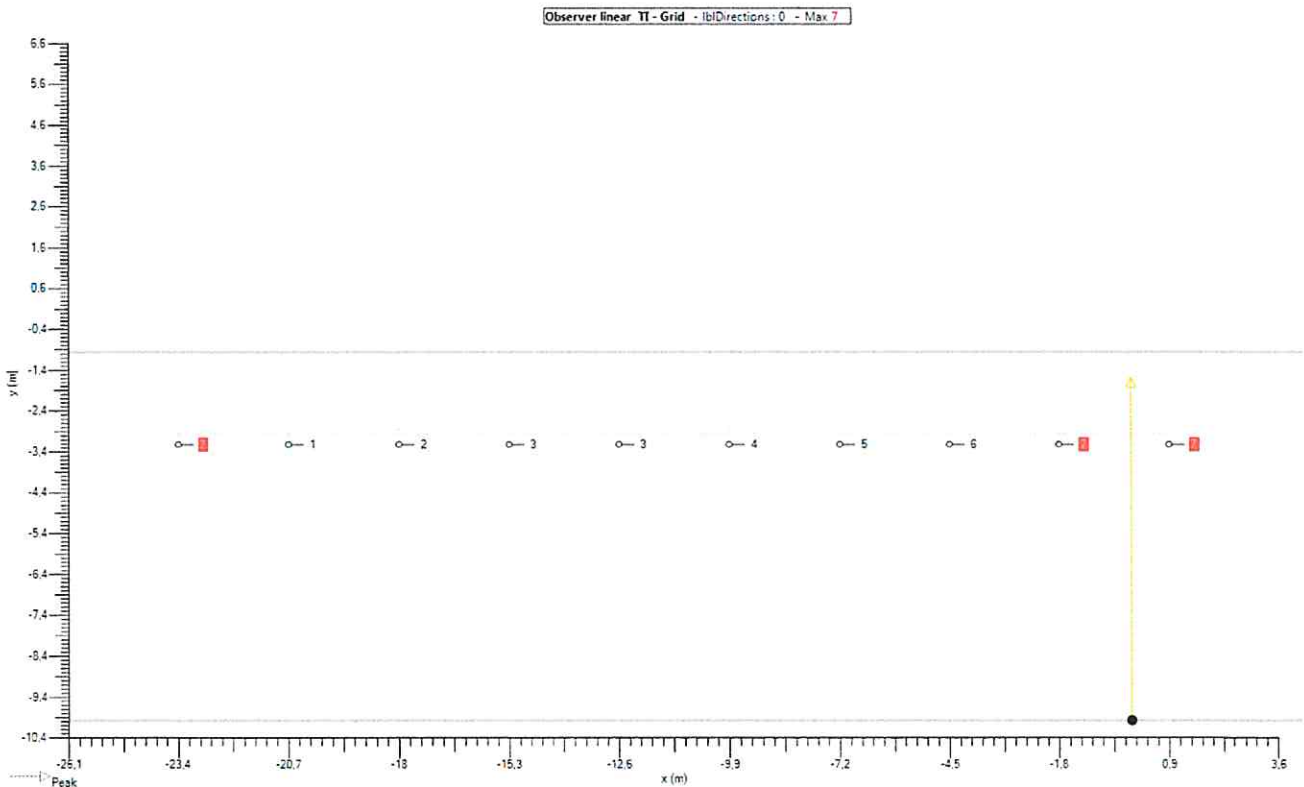


### 6.7. Multi-lanes (TI 2) - TI - Grid

#### Implantation




#### Values



## 7. Grids

### 7.1. Multi-lanes (LU)

#### General

Type Grid rectangular XY  
Enabled ☒  
Colour 

#### Geometry

Origin	X 1,35 m	Y -8,25 m	Z 0,00 m
Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Dimension	Count X 10	Count Y 6	
	Spacing X 2,70 m	Spacing Y 1,50 m	
	Size X 24,30 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 -23,38 m Y -6,75 m Z 1,50 m

Rotation X 0,0° Y 0,0° Z 0,0°

Dimension Count 10 Spacing 2,70 m Size 24,30 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 -23,38 m Y -2,25 m Z 1,50 m

Rotation X 0,0° Y 0,0° Z 0,0°

Dimension Count 10 Spacing 2,70 m Size 24,30 m