

Comune di Quarrata - Via Modigliani

Standard EN 13201 : 2015

Designer Ufficio Tecnico

Date 18/03/2022

Application Ulysse 3.5.2

Description Verifica Illuminotecnica Via Modigliani

Categoria M3 Strada Urbana di Quartiere

Teceo 1 24led 700mA 53 W ottica 5248

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1. Fixtures

1.1. TECEO GEN2 1 24 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702

Type TECEO GEN2 1

Reflector 5248

Source 24 LEDs 700mA WW730

Protector Piano, Vetro extra chiaro, Liscio

Source flux 7,617 klm

G* 2

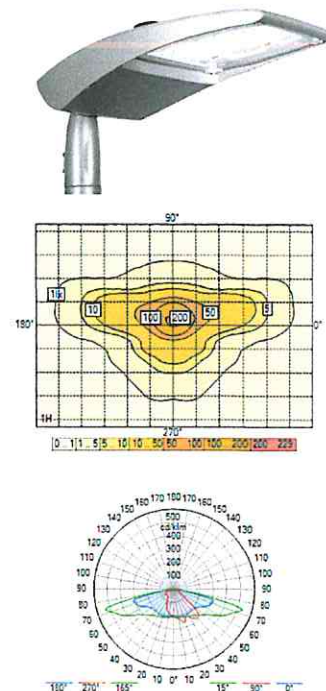
Luminaire wattage 53,5 W

MF 0,80

Matrix 468702

Luminaire flux 6,010 klm

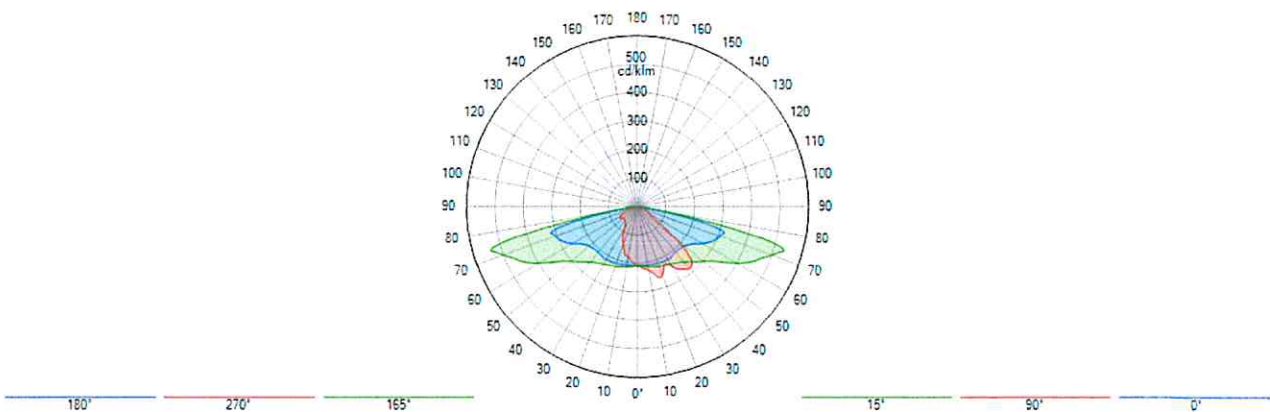
Efficacy 112 lm/W



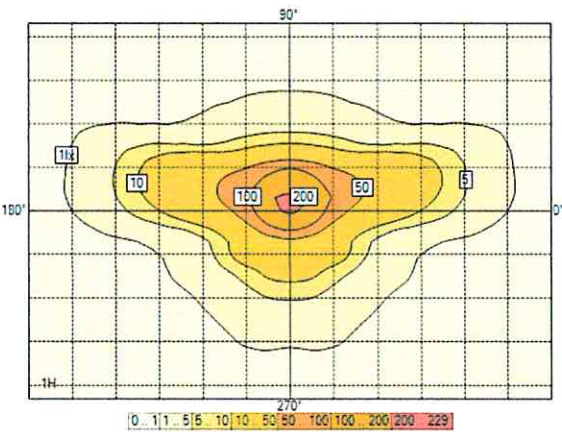
2. Photometric documents

2.1. TECEO GEN2 1 24 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702

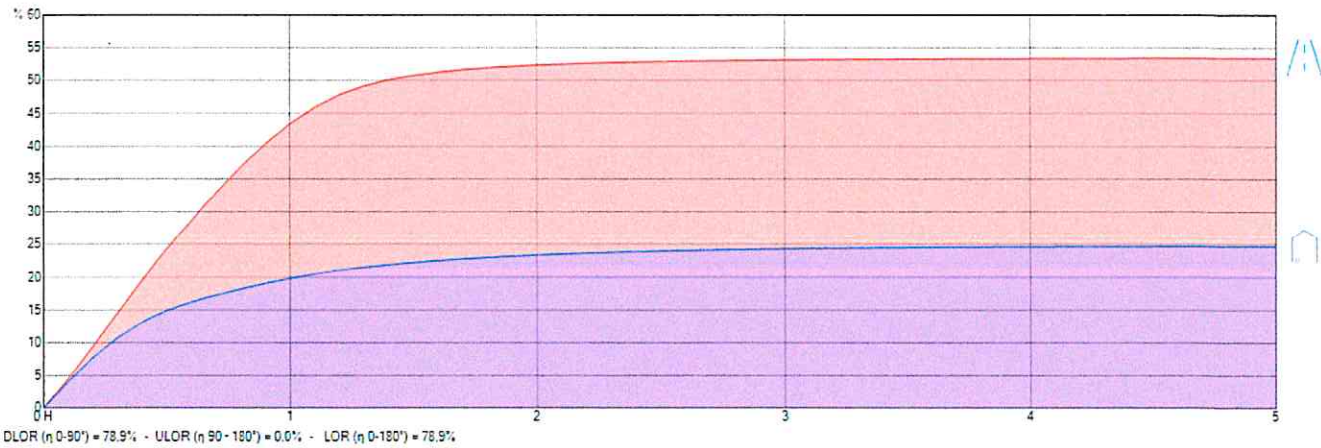
Polar/Cartesian diagram



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; -6,00; 1,50)	1,10	56	38	0,62	1,61	93 %	✓
Dynamic cross section - Observer 2 (-60,00; -2,00; 1,50)	1,21	54	37	0,66	1,77	94 %	✓

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; -6,00; 1,50)	1,10	56	38	0,62	1,61	93 %	✓
Dynamic cross section - Observer 2 (-60,00; -2,00; 1,50)	1,21	54	37	0,66	1,77	94 %	✓

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)	8	✓

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)	6	✓

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)	0,52	✓

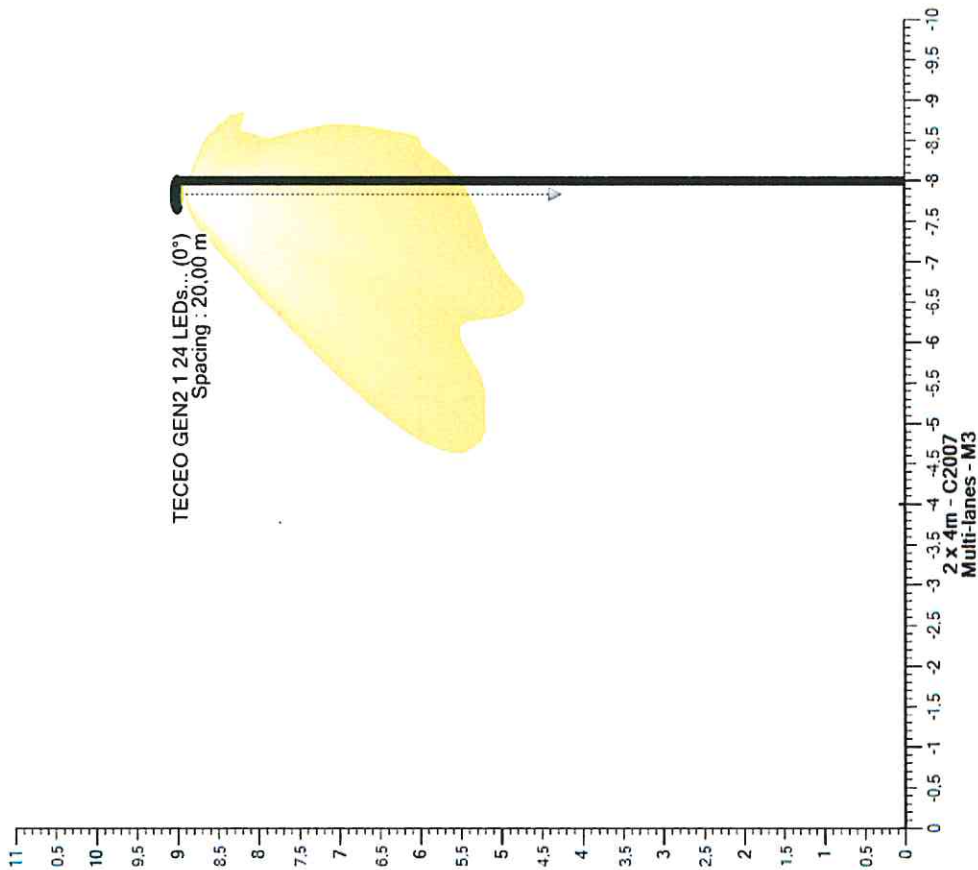
4. Power consumption

4.1. Dynamic cross section

Fixture	Current [mA]	Qty	Dimming	Power / Fixture	Total
TECEO GEN2 1 24 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	700	50	100 %	53 W	2675 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 24 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	700	7,617	6,010	53,5	112	0,800	9 x 9,00	

6.2. Luminaire positions

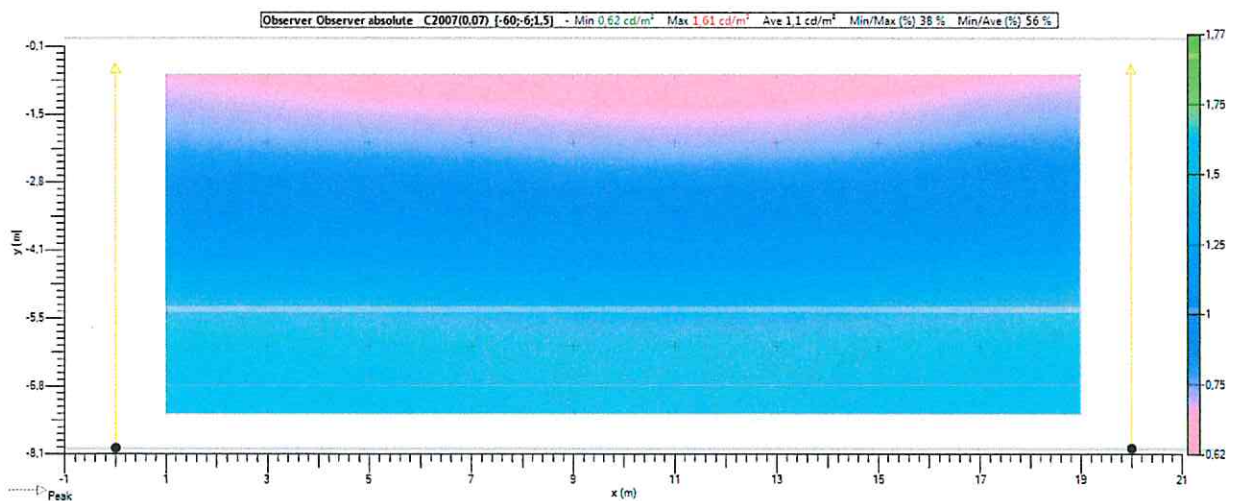
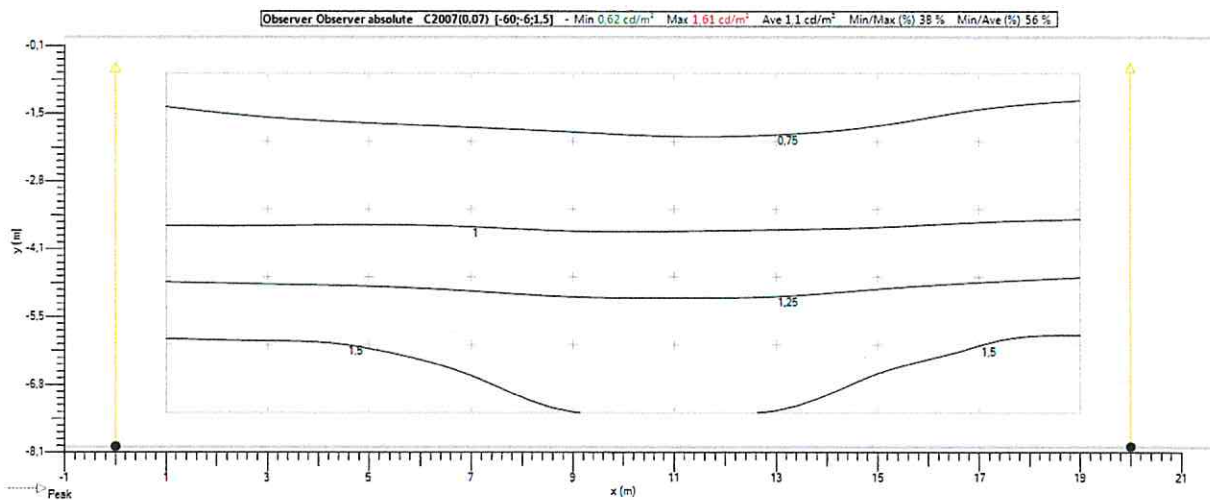
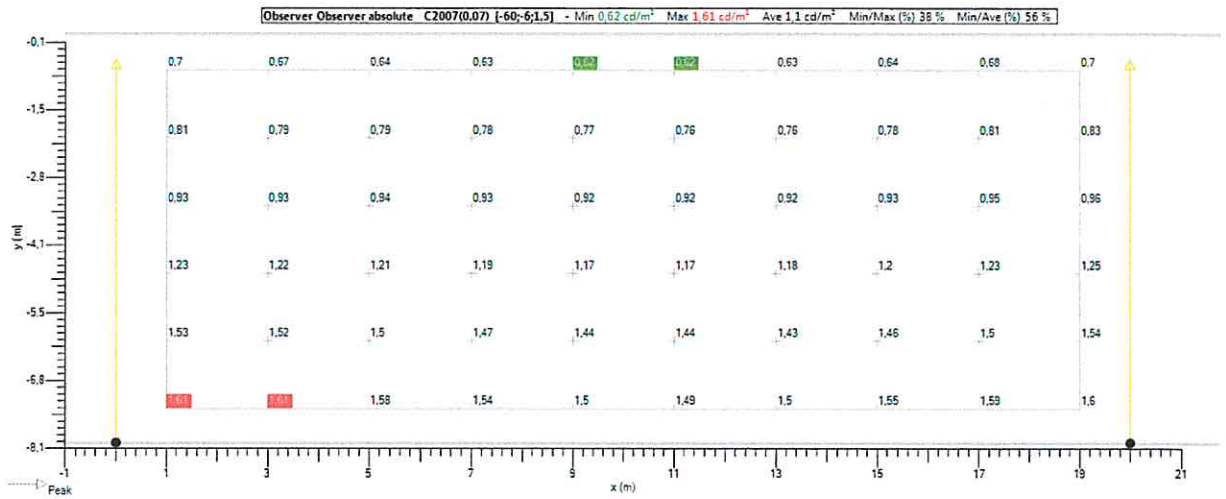
	Color	N°	Position			Luminaire							Target		
			X [m]	Y [m]	Z [m]	Name	Current [mA]	Az [°]	Incl [°]	Rot [°]	Flux [klm]	MF	X [m]	Y [m]	Z [m]
<input checked="" type="checkbox"/>		1	-40,00	-8,00	9,00	TECEO GEN2 1 24 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	7,617	0,800	-40,00	-8,00	0,00
<input checked="" type="checkbox"/>		2	-20,00	-8,00	9,00	TECEO GEN2 1 24 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	7,617	0,800	-20,00	-8,00	0,00
<input checked="" type="checkbox"/>		3	0,00	-8,00	9,00	TECEO GEN2 1 24 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	7,617	0,800	0,00	-8,00	0,00
<input checked="" type="checkbox"/>		4	20,00	-8,00	9,00	TECEO GEN2 1 24 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	7,617	0,800	20,00	-8,00	0,00
<input checked="" type="checkbox"/>		5	40,00	-8,00	9,00	TECEO GEN2 1 24 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	7,617	0,800	40,00	-8,00	0,00
<input checked="" type="checkbox"/>		6	60,00	-8,00	9,00	TECEO GEN2 1 24 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	7,617	0,800	60,00	-8,00	0,00
<input checked="" type="checkbox"/>		7	80,00	-8,00	9,00	TECEO GEN2 1 24 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	7,617	0,800	80,00	-8,00	0,00
<input checked="" type="checkbox"/>		8	100,00	-8,00	9,00	TECEO GEN2 1 24 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	7,617	0,800	100,00	-8,00	0,00
<input checked="" type="checkbox"/>		9	120,00	-8,00	9,00	TECEO GEN2 1 24 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	7,617	0,800	120,00	-8,00	0,00

6.3. Luminaire groups

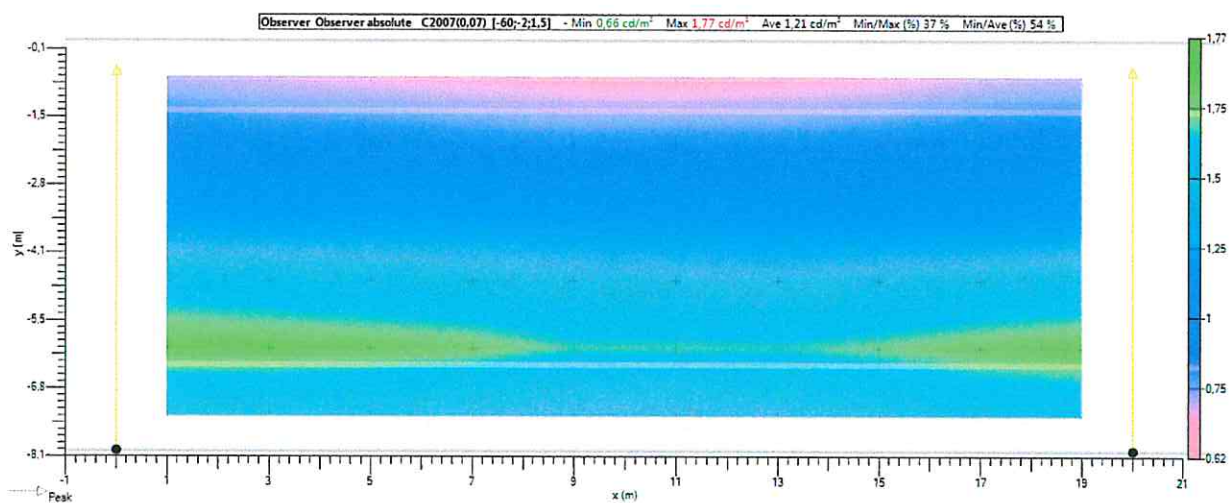
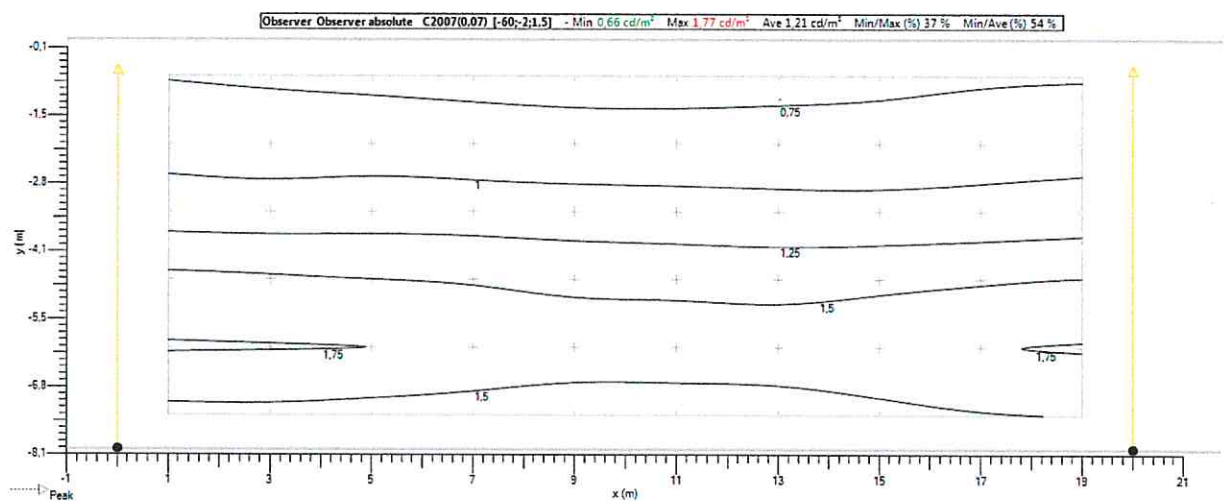
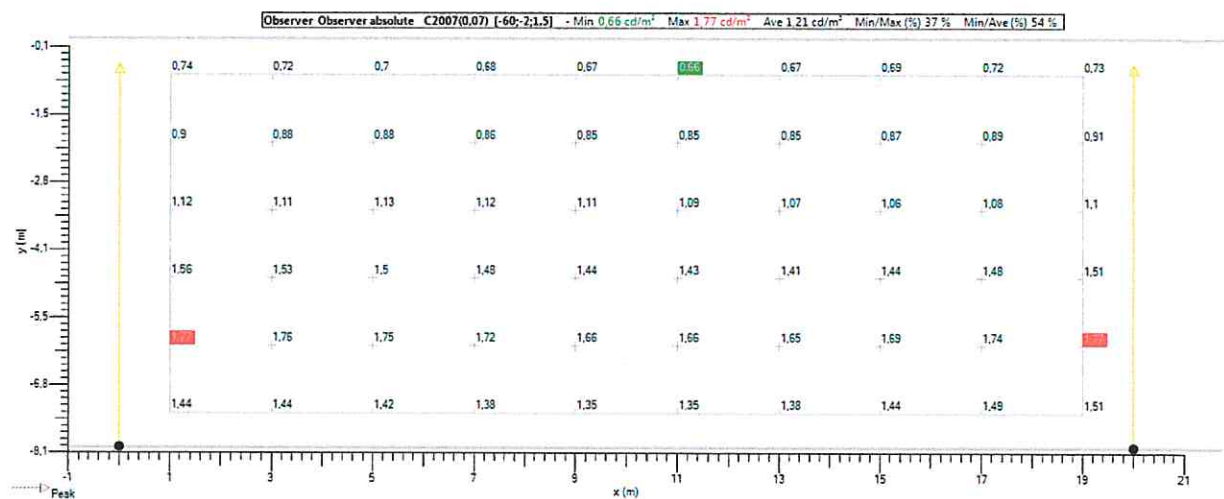
Linear																
	Color	N°	Position			Luminaire					Dimension			Rotation		
			X [m]	Y [m]	Z [m]	Name	Az [°]	Incl [°]	Rot [°]	Dim [%]	Count	Spacing [m]	Size [m]	X [°]	Y [°]	Z [°]
<input checked="" type="checkbox"/>		1	-40,00	-8,00	9,00	Fixture right	0,0	0,0	0,0	100	9	20,00	160,00	0,0	0,0	0,0

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

Multi-lanes (LU) - Absolute 1

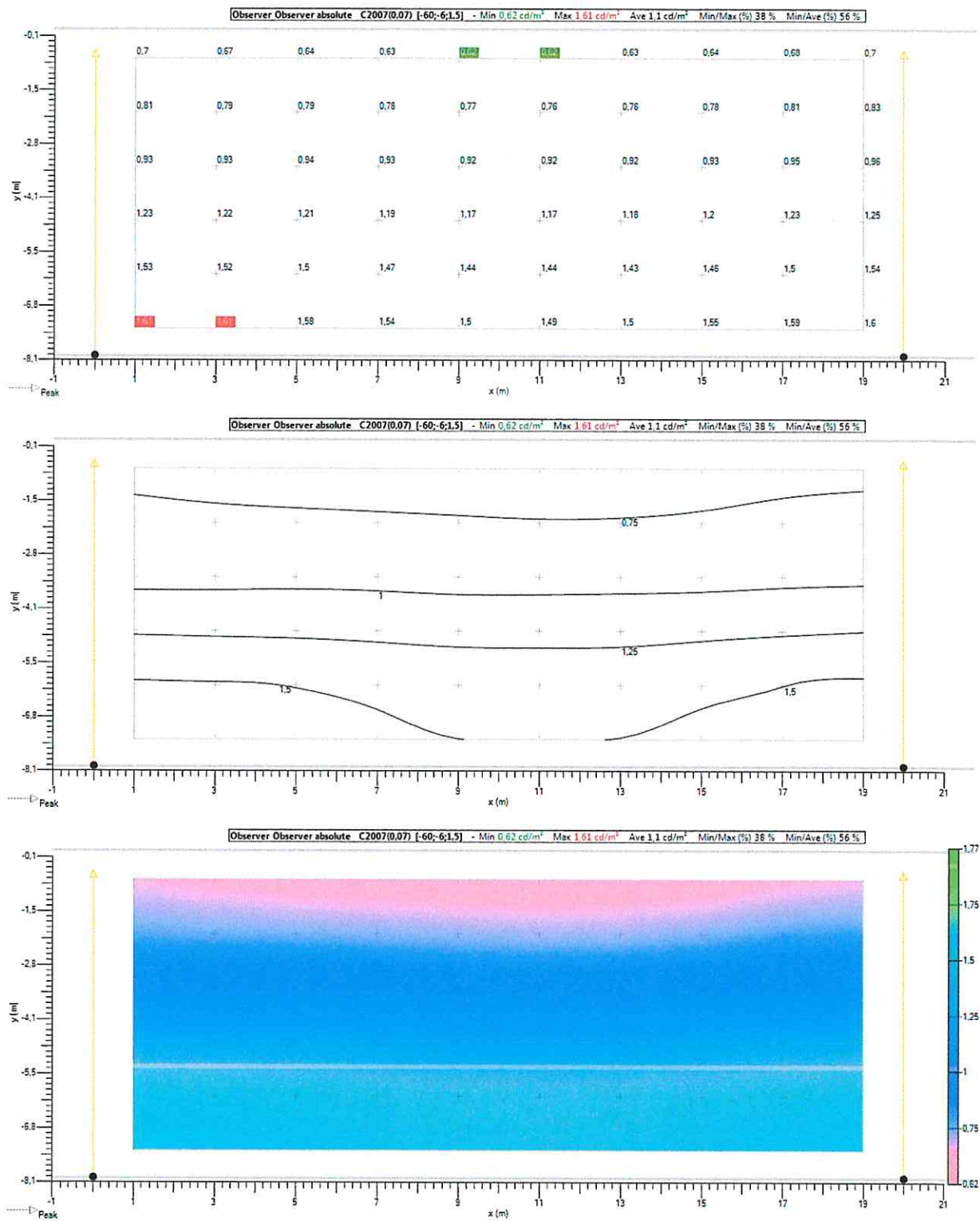


Multi-lanes (LU) - Absolute 2

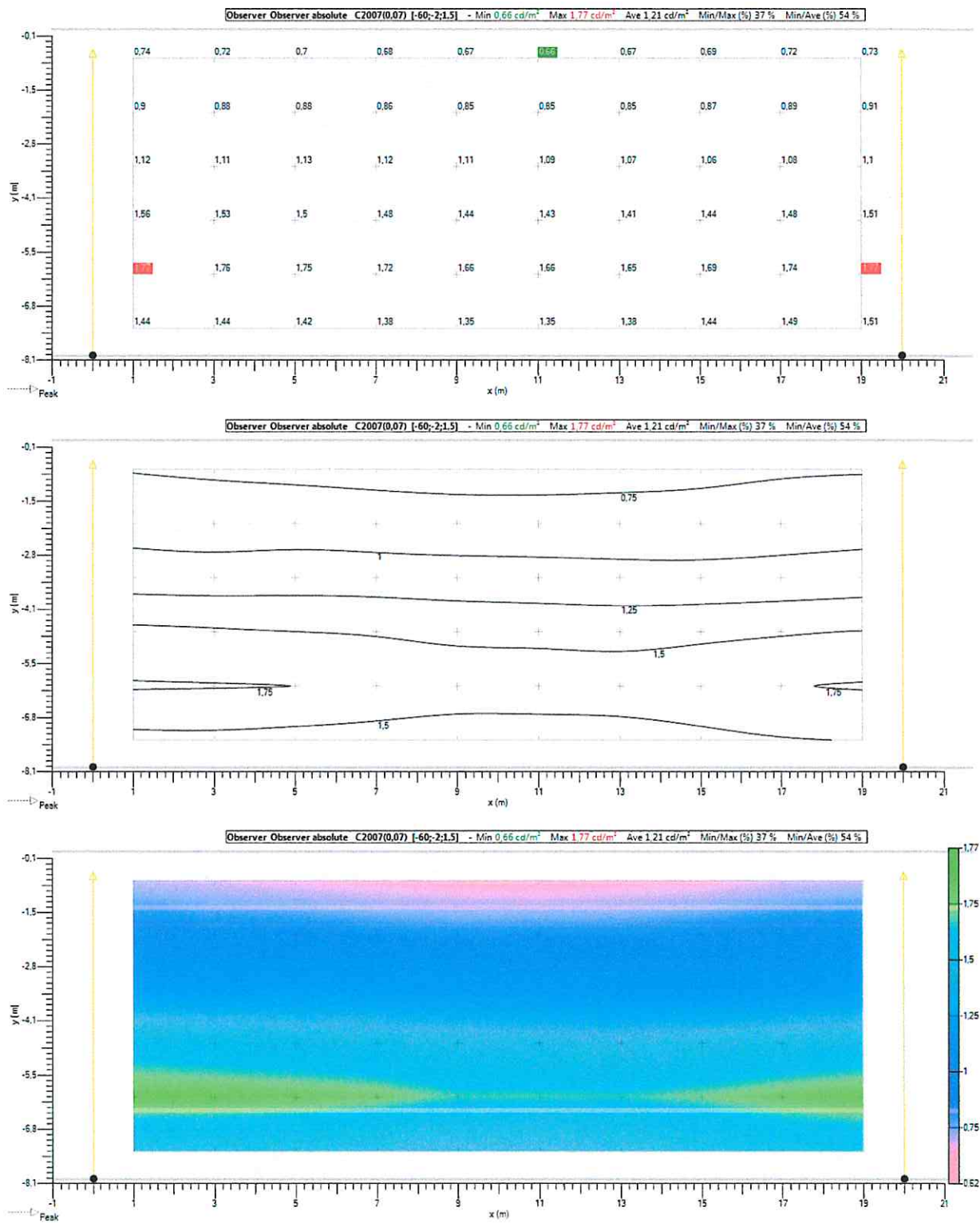


6.5. Luminance - Multi-lanes (LU) - C2007

Multi-lanes (LU) - Optional - Absolute 1

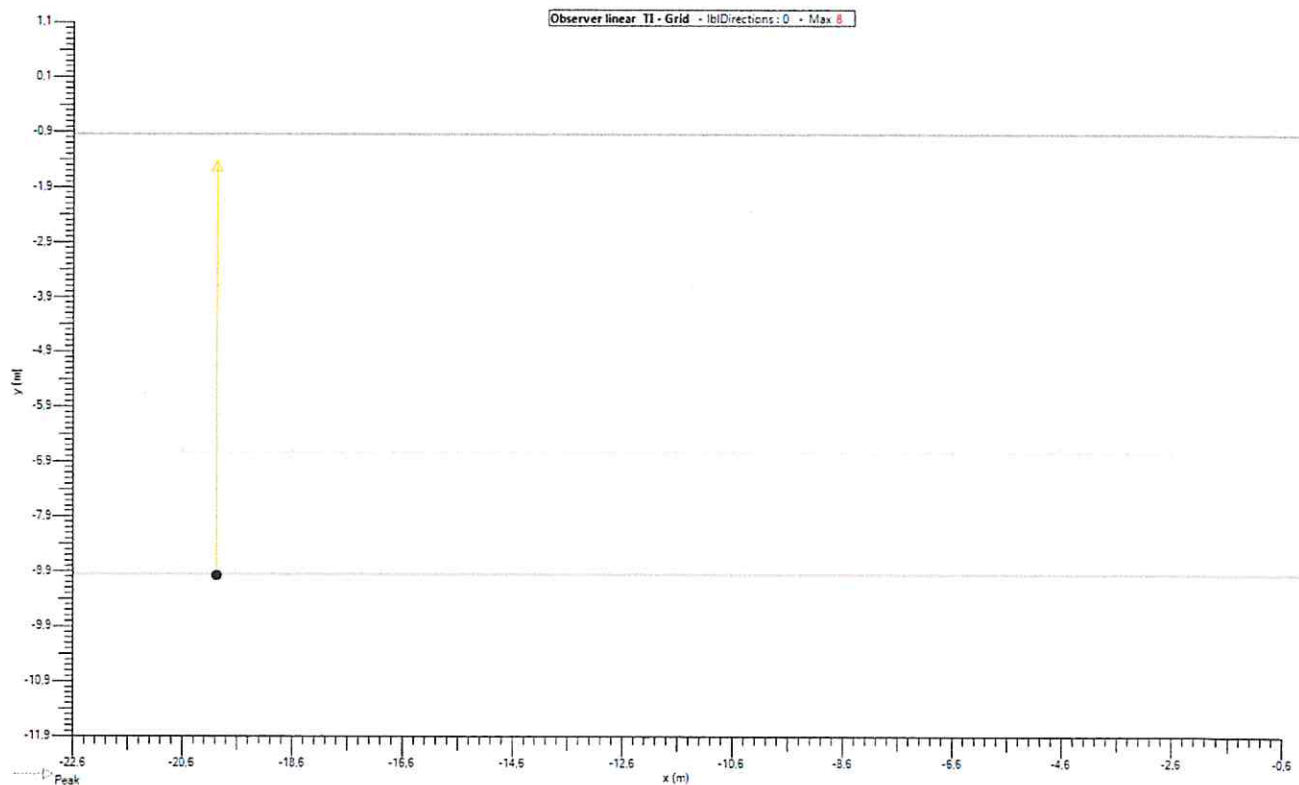


Multi-lanes (LU) - Optional - Absolute 2

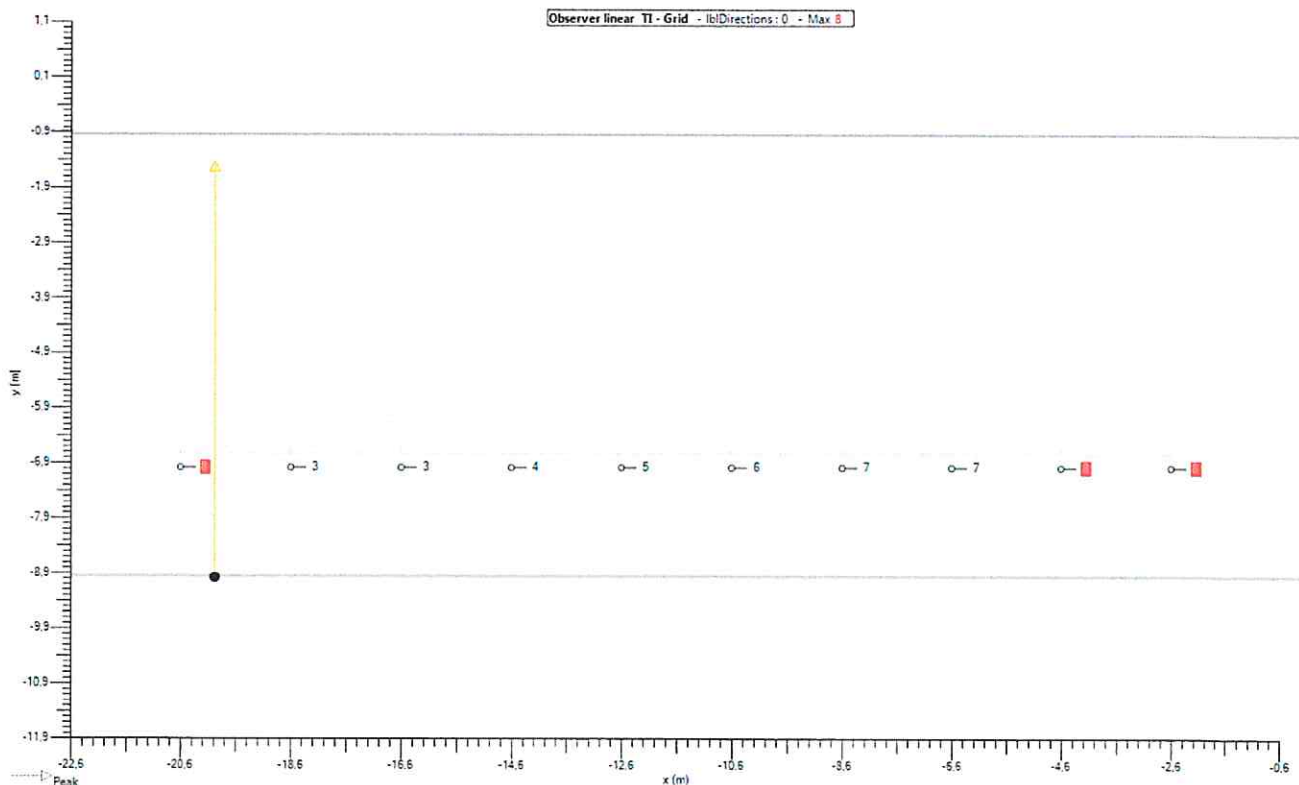


6.6. Multi-lanes (TI 1) - TI - Grid

Implantation

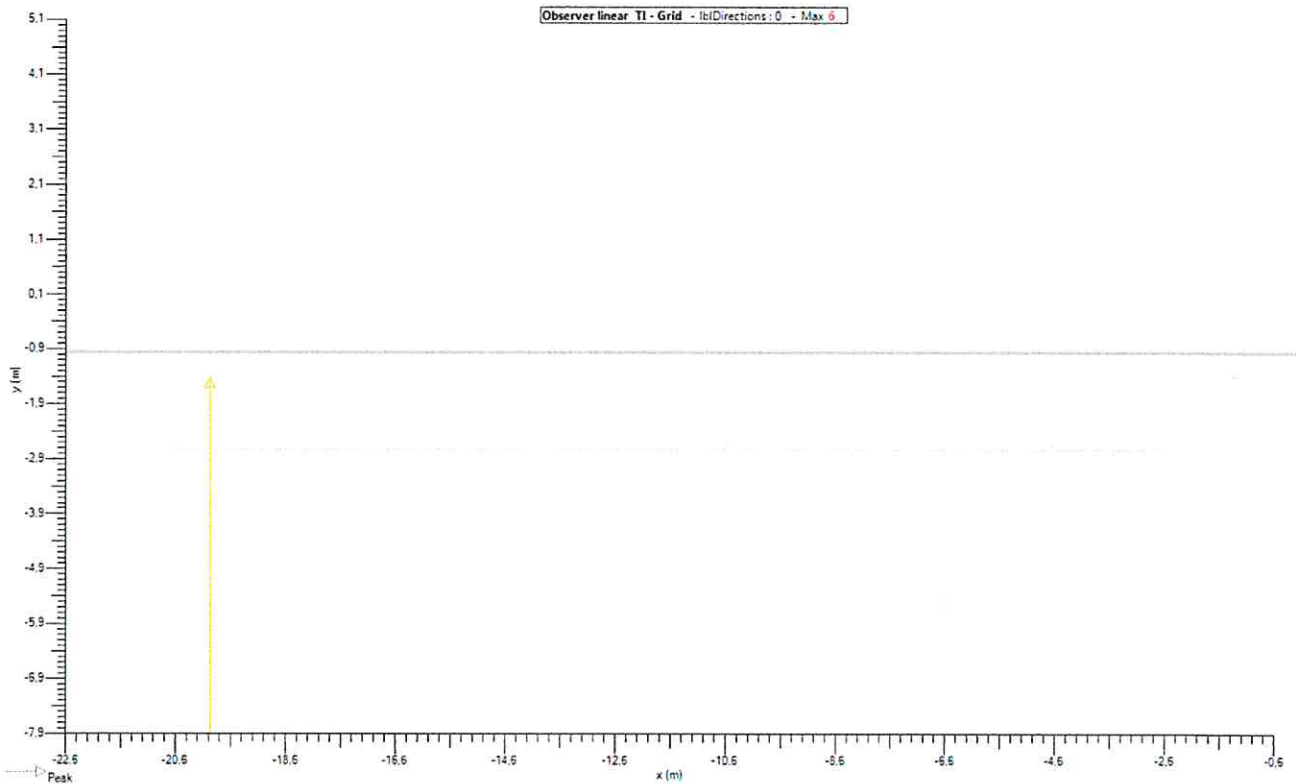


Values

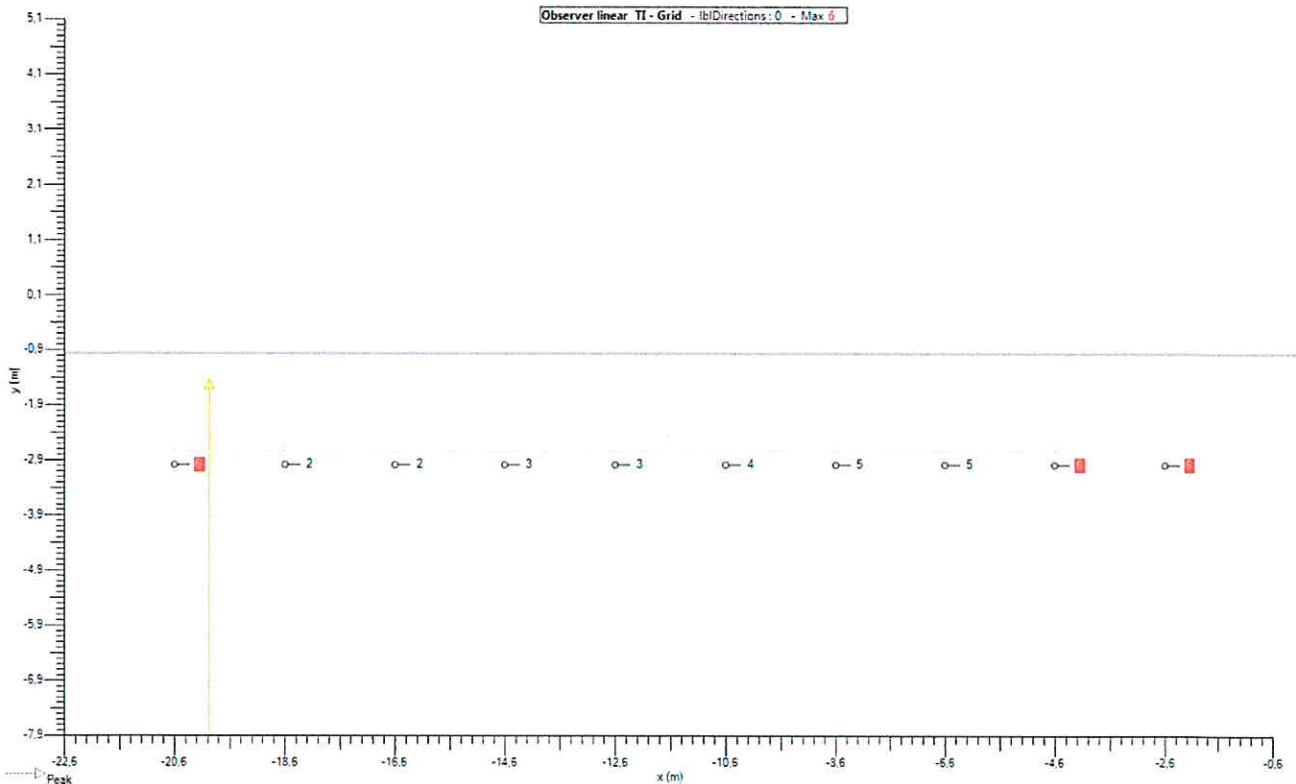


6.7. Multi-lanes (TI 2) - TI - Grid

Implantation




Values



7. Grids

7.1. Multi-lanes (LU)

General

Type Grid rectangular XY
Enabled ☒
Colour 

Geometry

Origin	X 1,00 m	Y -7,33 m	Z 0,00 m
Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Dimension	Count X 10	Count Y 6	
	Spacing X 2,00 m	Spacing Y 1,33 m	
	Size X 18,00 m	Size Y 6,67 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 -6,00 m Z 1,50 m

Rotation X 0,0° Y 0,0° Z 0,0°

Dimension Count 10 Spacing 2,00 m Size 18,00 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 -20,63 m Y -2,00 m Z 1,50 m

Rotation X 0,0° Y 0,0° Z 0,0°

Dimension Count 10 Spacing 2,00 m Size 18,00 m