

Comune di Quarrata - Via Costaglia 2° tratto

Standard EN 13201 : 2015

Designer studio tecnico

Date 20/03/2022

Application Ulysse 3.5.2

Description Verifica Illuminotecnica Via Costaglia 2° 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

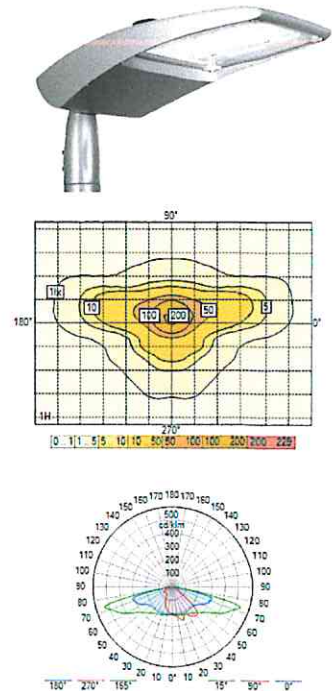
Luminaire wattage 70,0 W

MF 0,80

Matrix 468702

Luminaire flux 8,013 klm

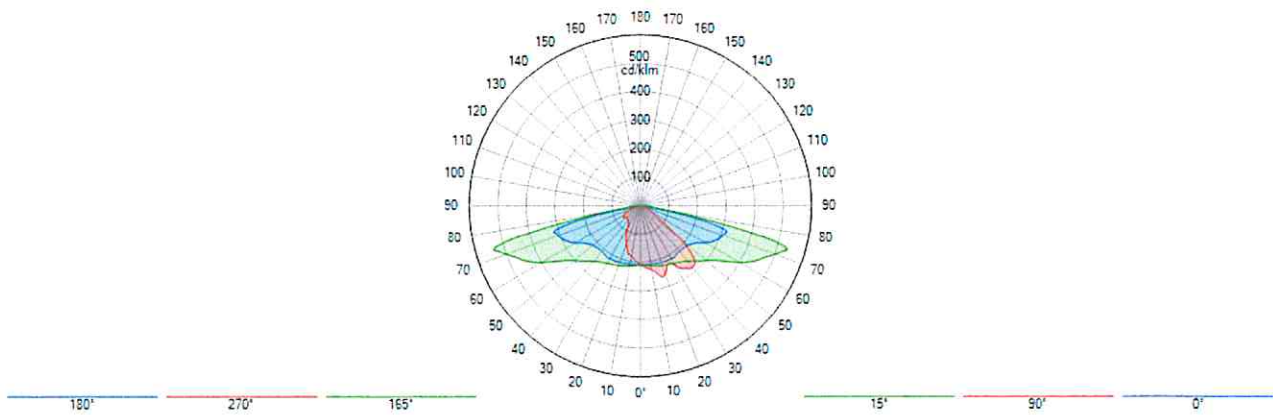
Efficacy 114 lm/W



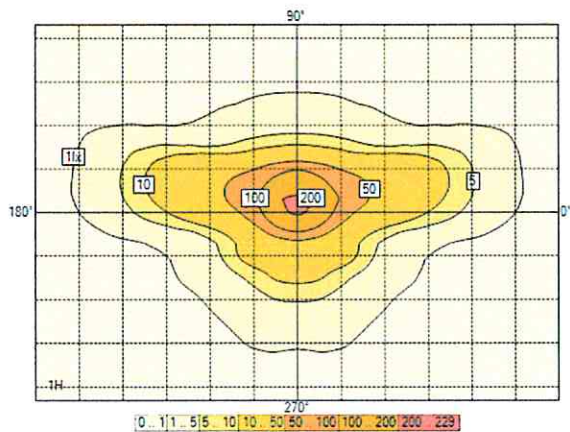
2. Photometric documents

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

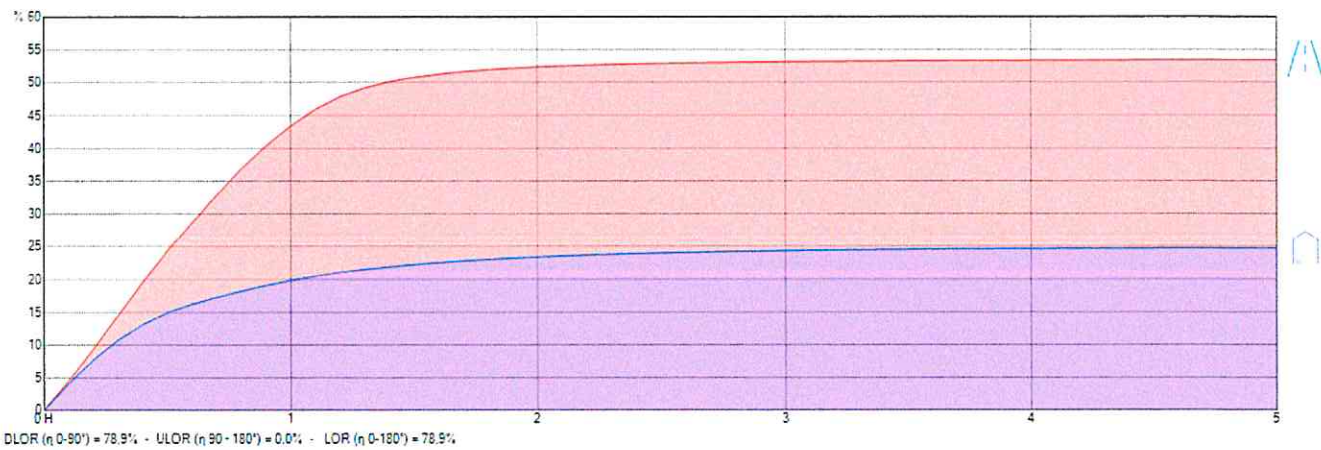
Polar/Cartesian diagram



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; -4,50; 1,50)	1,11	51	32	0,57	1,77	69 %	✓
Dynamic cross section - Observer 2 (-60,00; -1,50; 1,50)	1,20	51	33	0,62	1,89	71 %	✓

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; -4,50; 1,50)	1,11	51	32	0,57	1,77	69 %	✓
Dynamic cross section - Observer 2 (-60,00; -1,50; 1,50)	1,20	51	33	0,62	1,89	71 %	✓

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)	17	✗

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)	13	✓

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)	0,57	✓

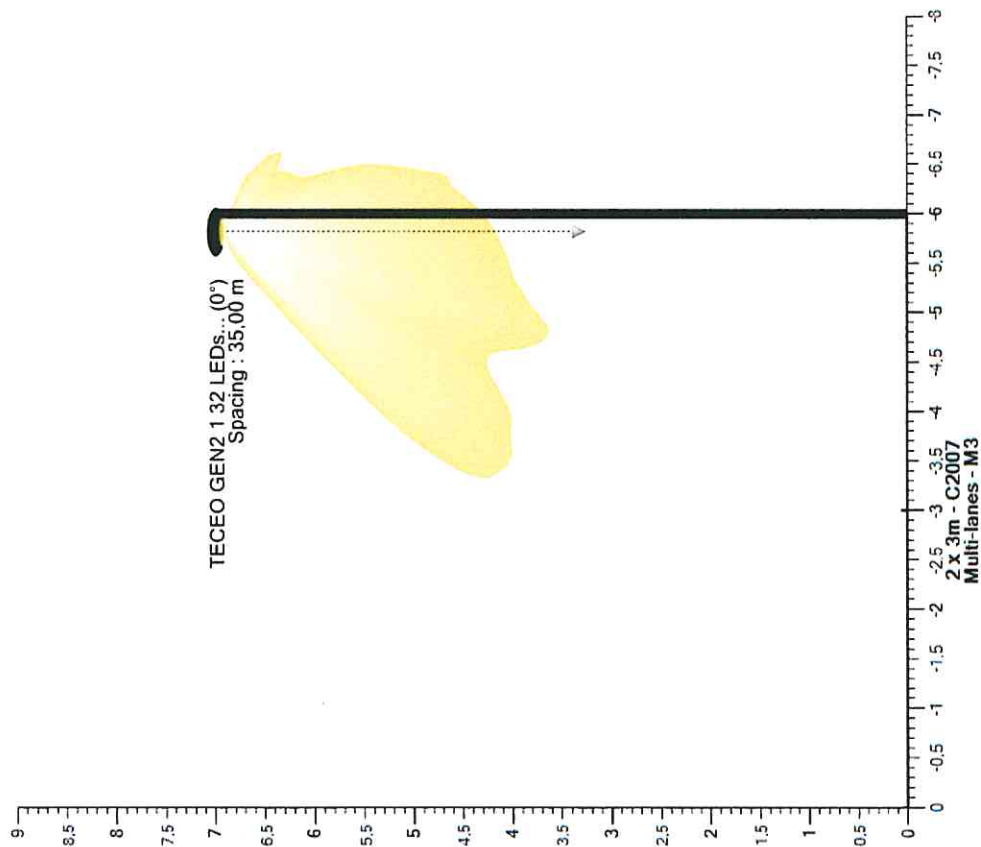
4. Power consumption

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	29	100 %	70 W	2002 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	5 x 7,00	

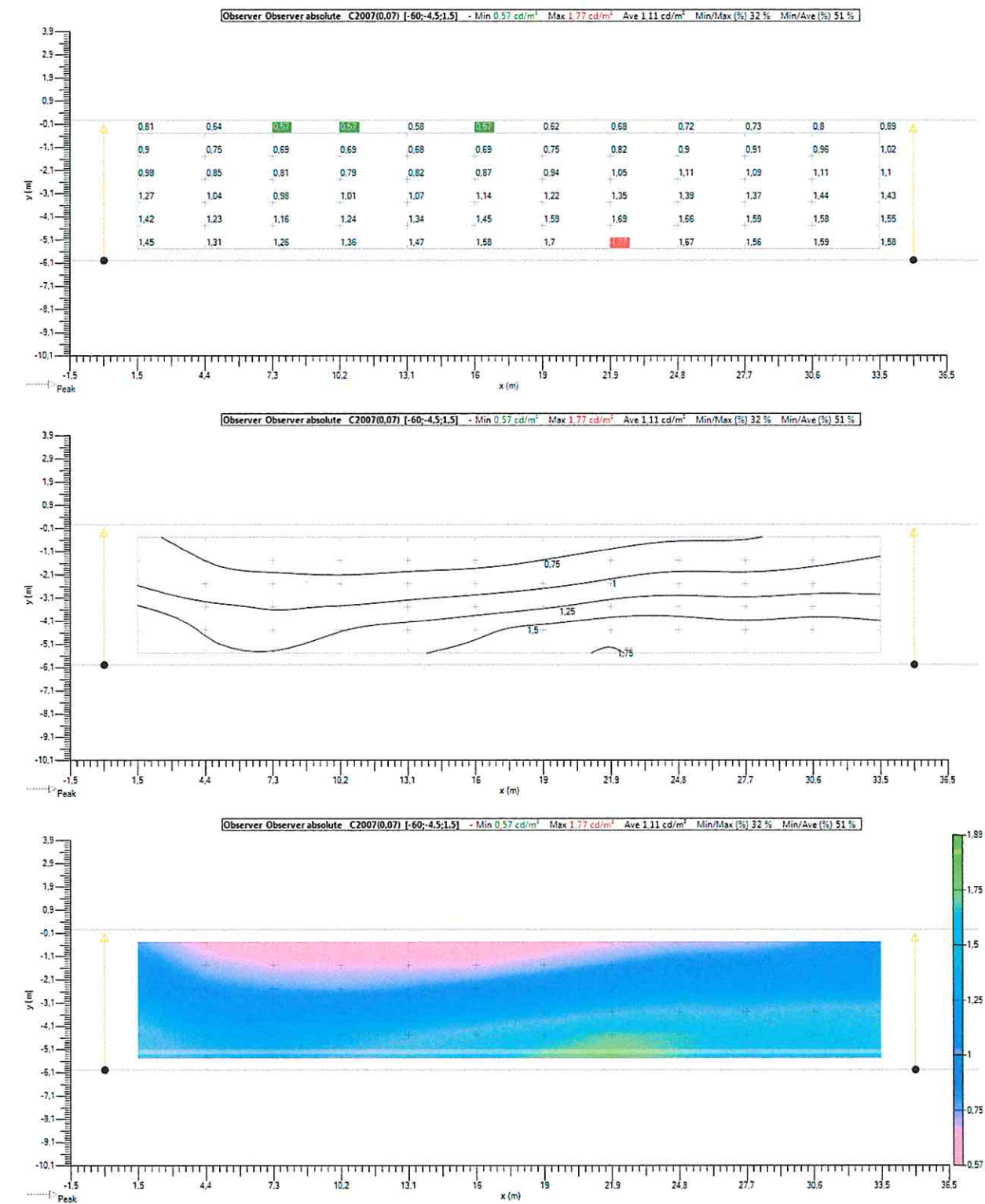
6.2. Luminaire positions

	Color	N°	Position			Luminale								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	-35,00	-6,00	7,00	TECEO GEN2 1 32 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	10,156	0,800	-35,00	-6,00	0,00	
<input checked="" type="checkbox"/>		2	0,00	-6,00	7,00	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	35,00	-6,00	7,00	TECEO GEN2 1 32 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	10,156	0,800	35,00	-6,00	0,00	
<input checked="" type="checkbox"/>		4	70,00	-6,00	7,00	TECEO GEN2 1 32 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	10,156	0,800	70,00	-6,00	0,00	
<input checked="" type="checkbox"/>		5	105,00	-6,00	7,00	TECEO GEN2 1 32 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	10,156	0,800	105,00	-6,00	0,00	

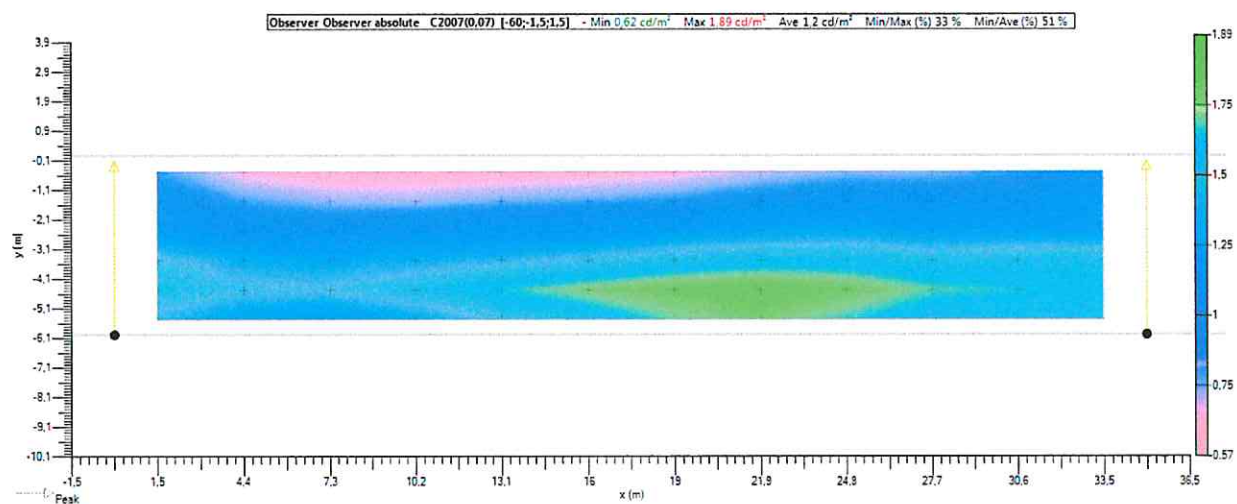
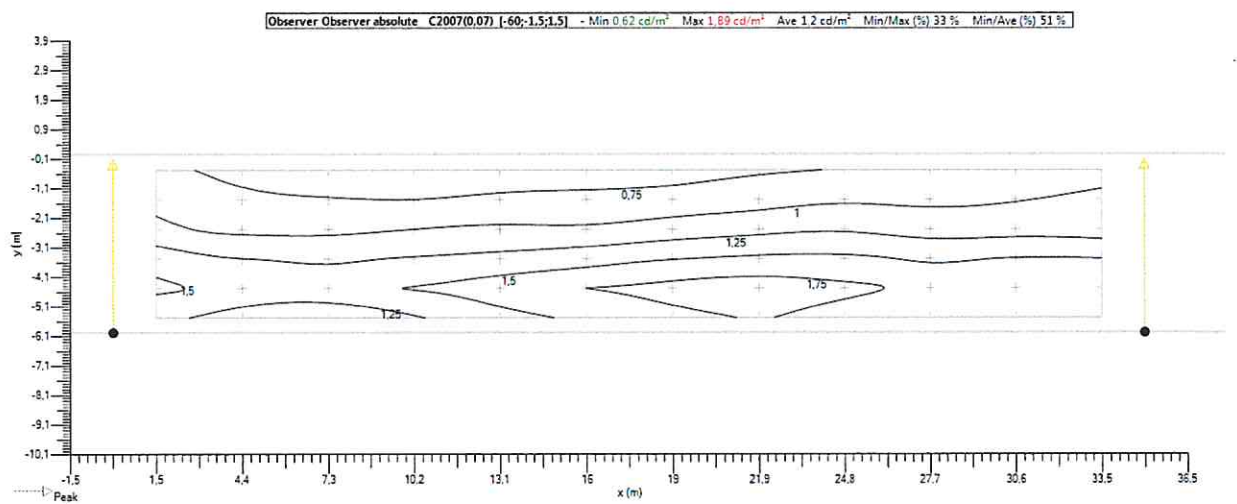
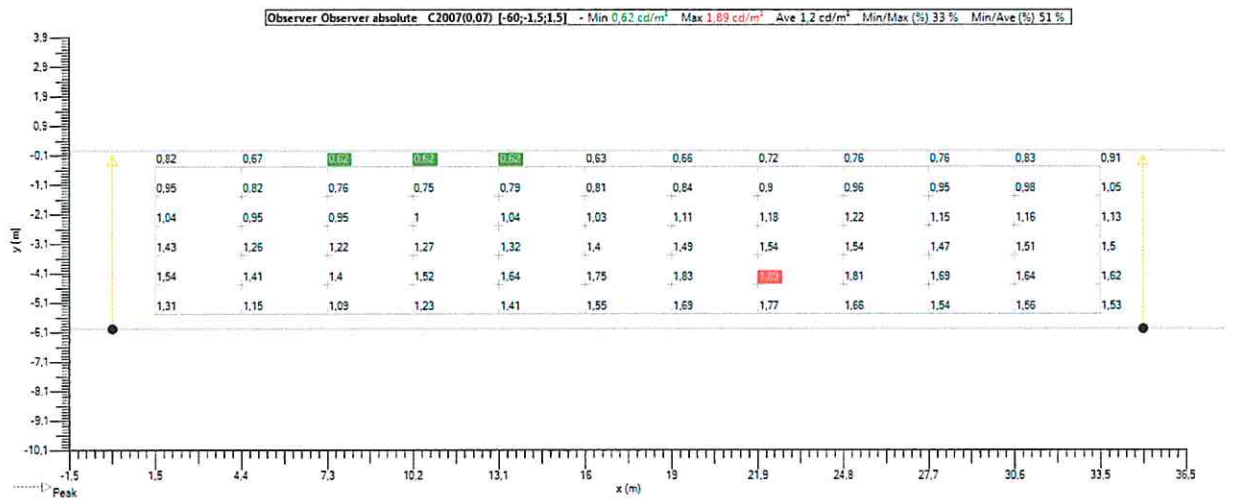
6.3. Luminaire groups

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	-35,00	-6,00	7,00	Fixture right	0,0	0,0	0,0	100	5	35,00	140,00	0,0	0,0	0,0

6.4. Luminance - Multi-lanes (LU) - C2007
Multi-lanes (LU) - Absolute 1

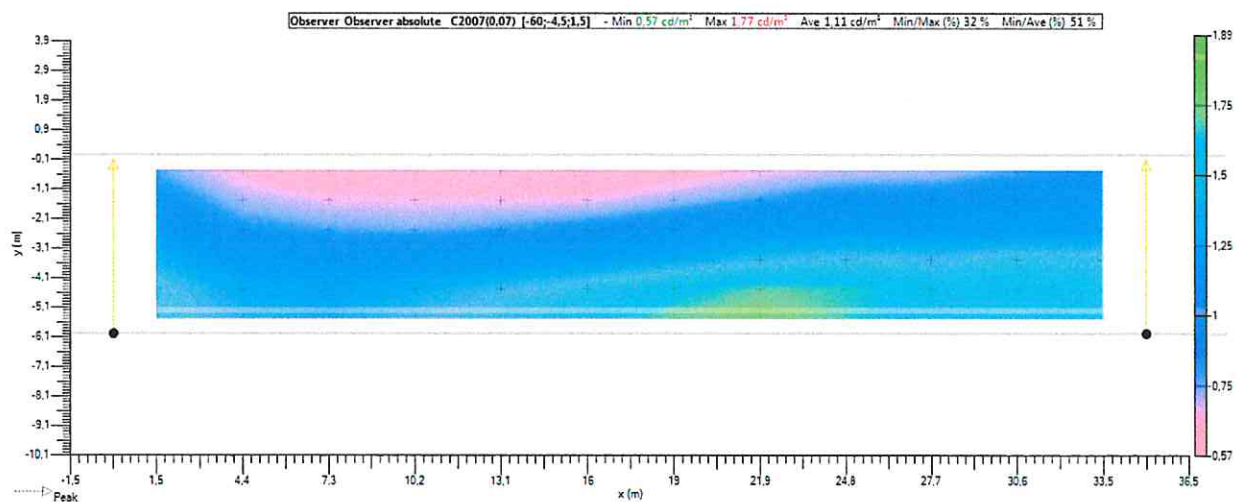
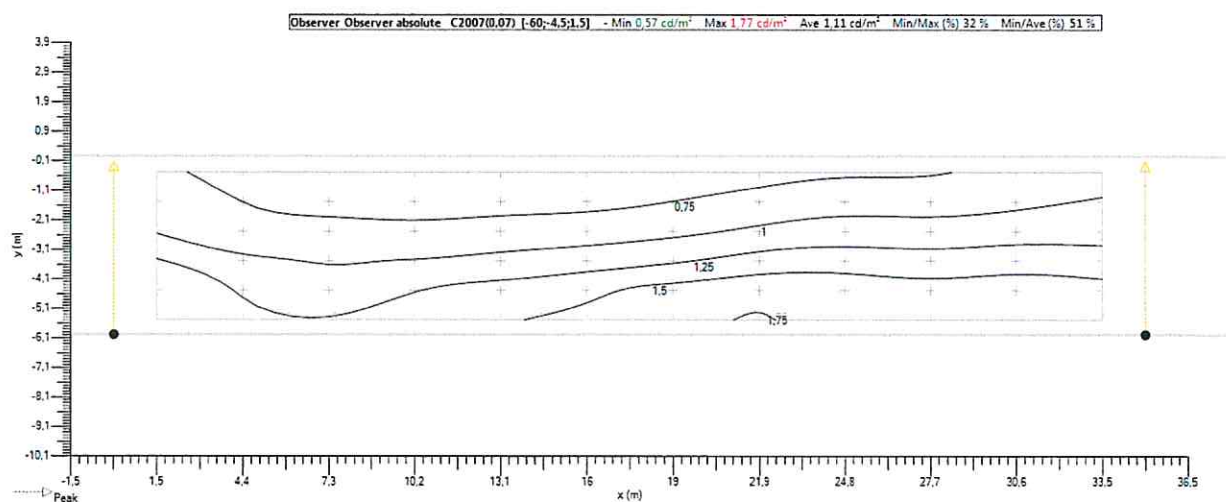
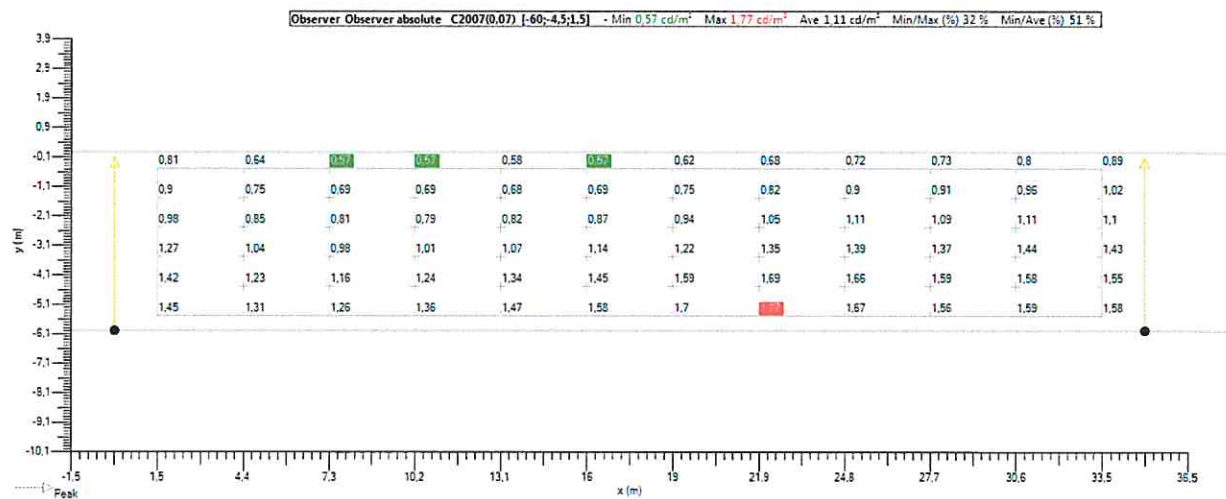


Multi-lanes (LU) - Absolute 2

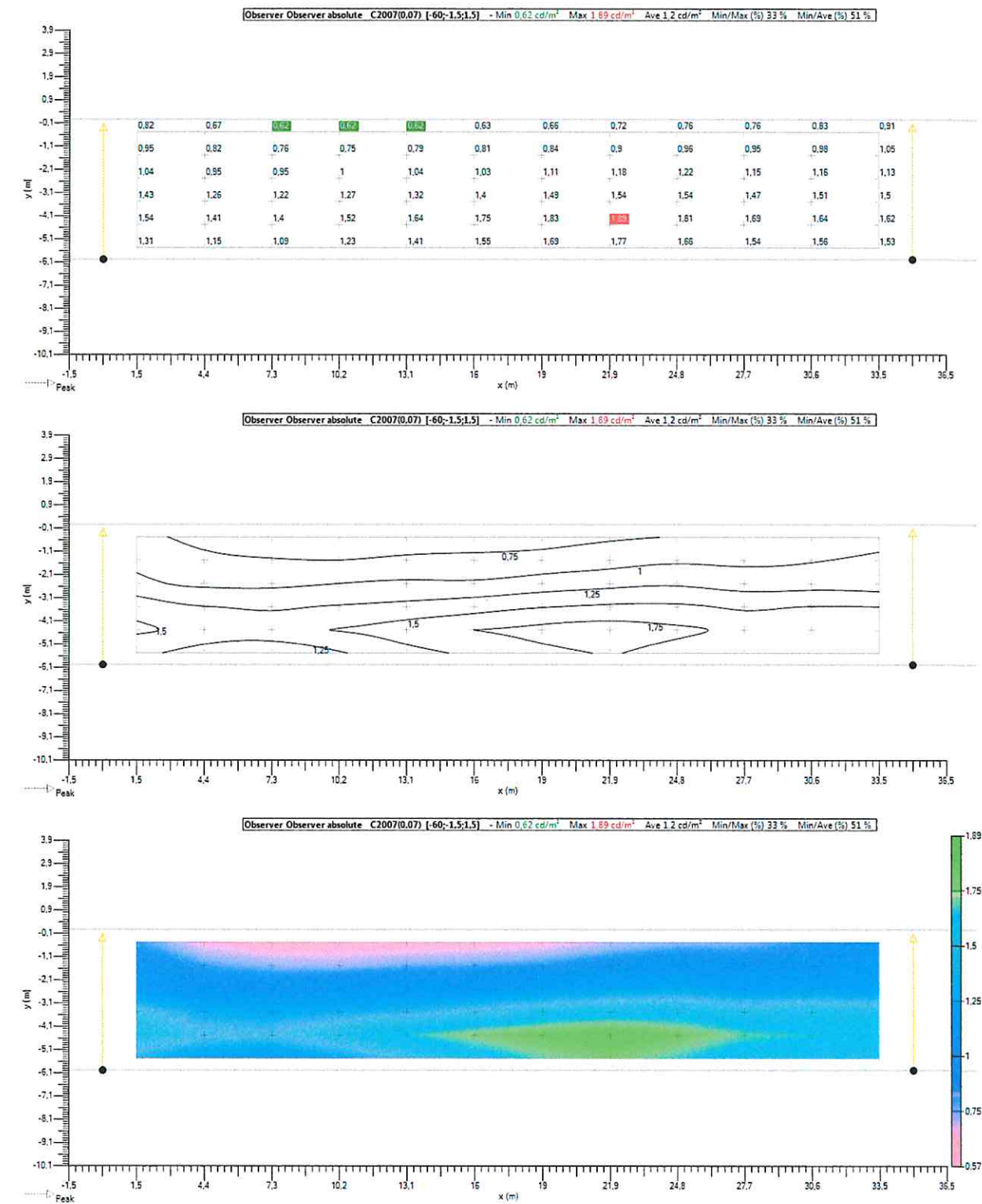


6.5. Luminance - Multi-lanes (LU) - C2007

Multi-lanes (LU) - Optional - Absolute 1

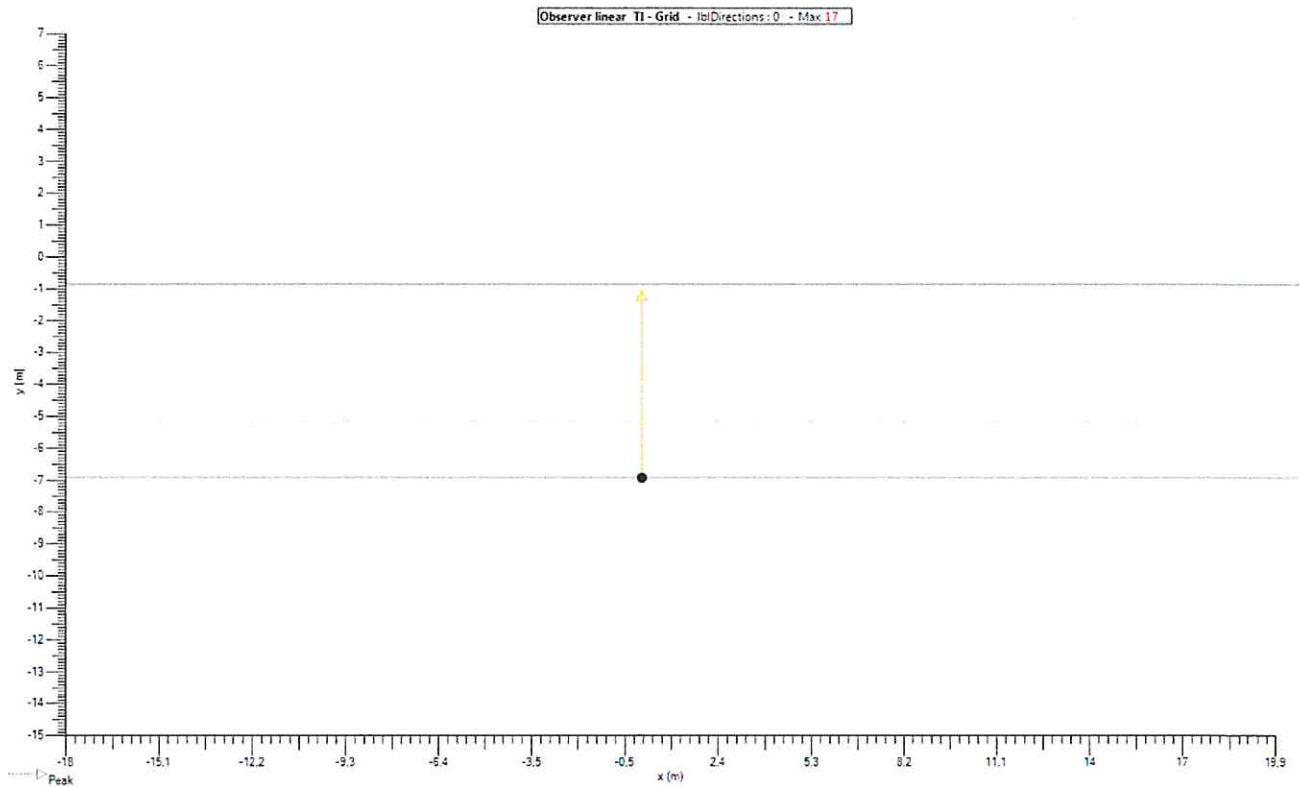


Multi-lanes (LU) - Optional - Absolute 2

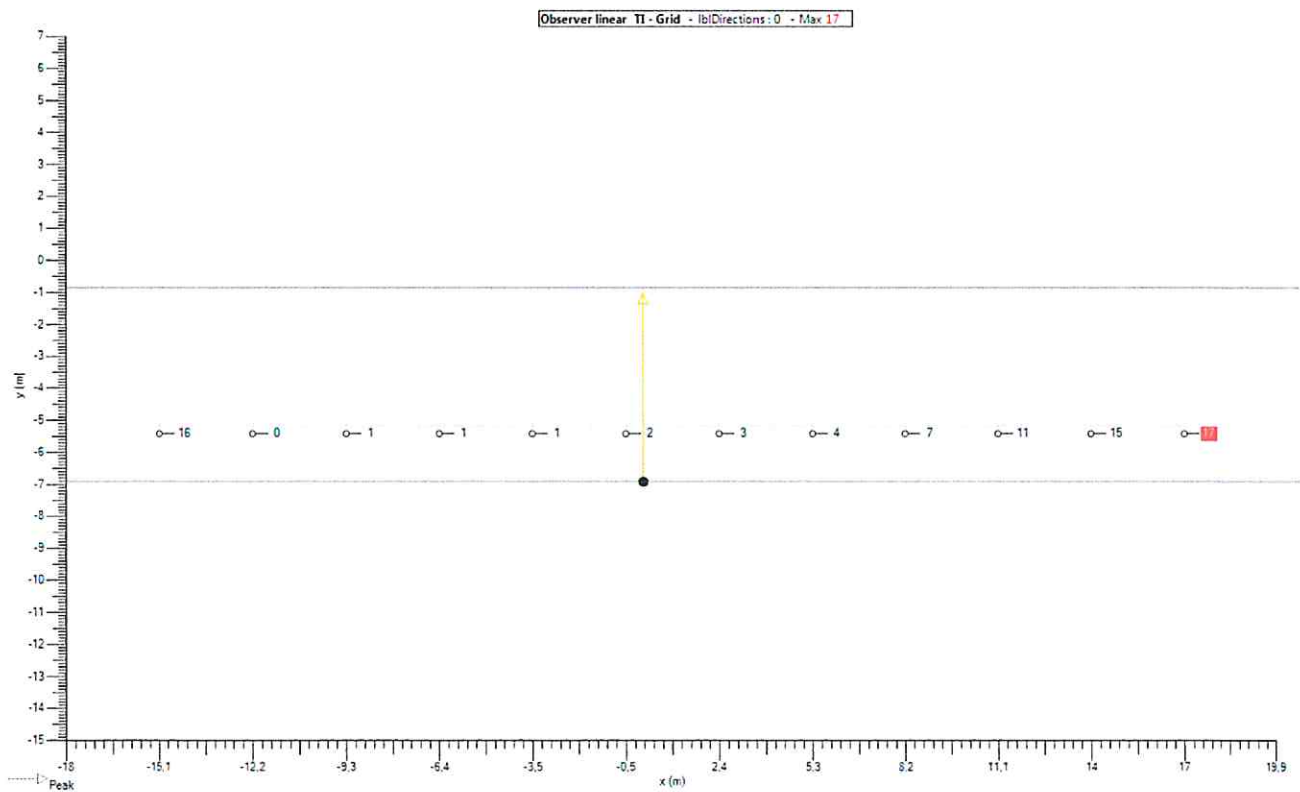


6.6. Multi-lanes (TI 1) - TI - Grid

Implantation

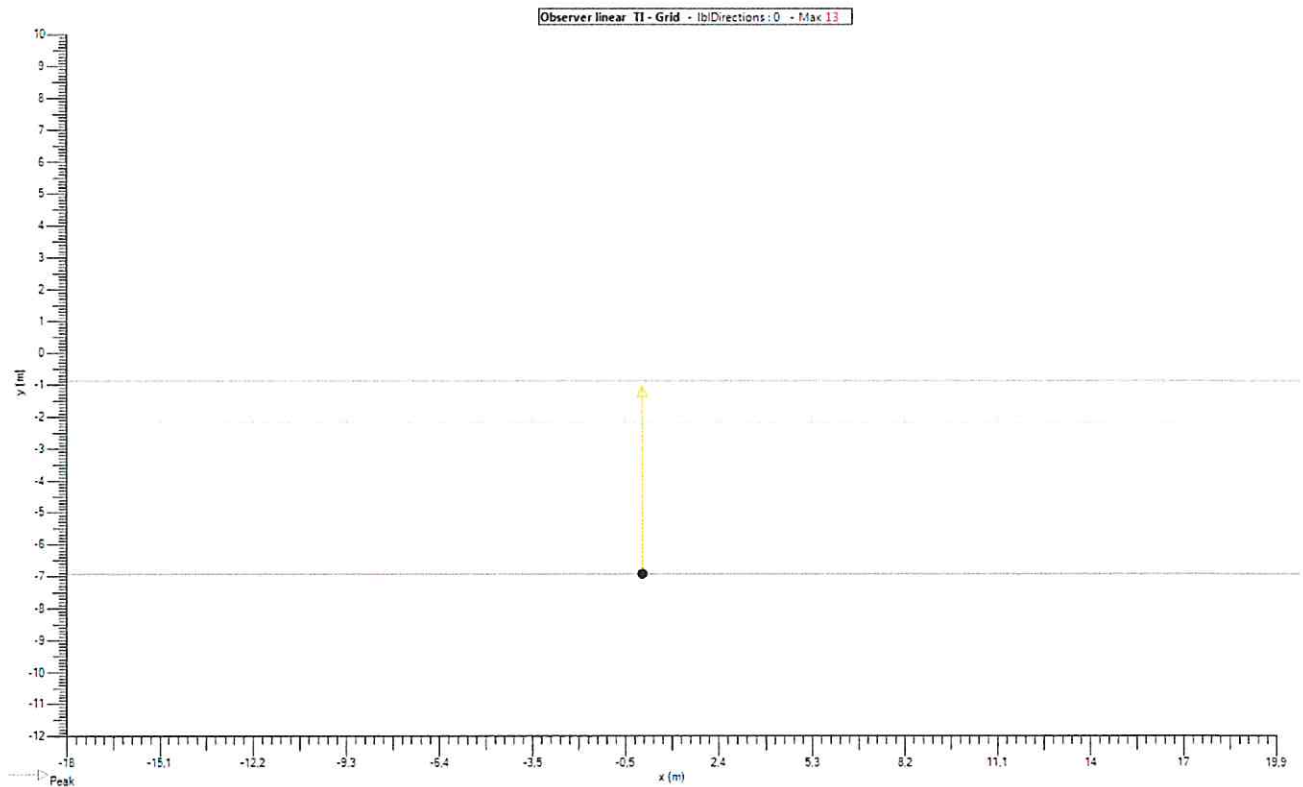


Values

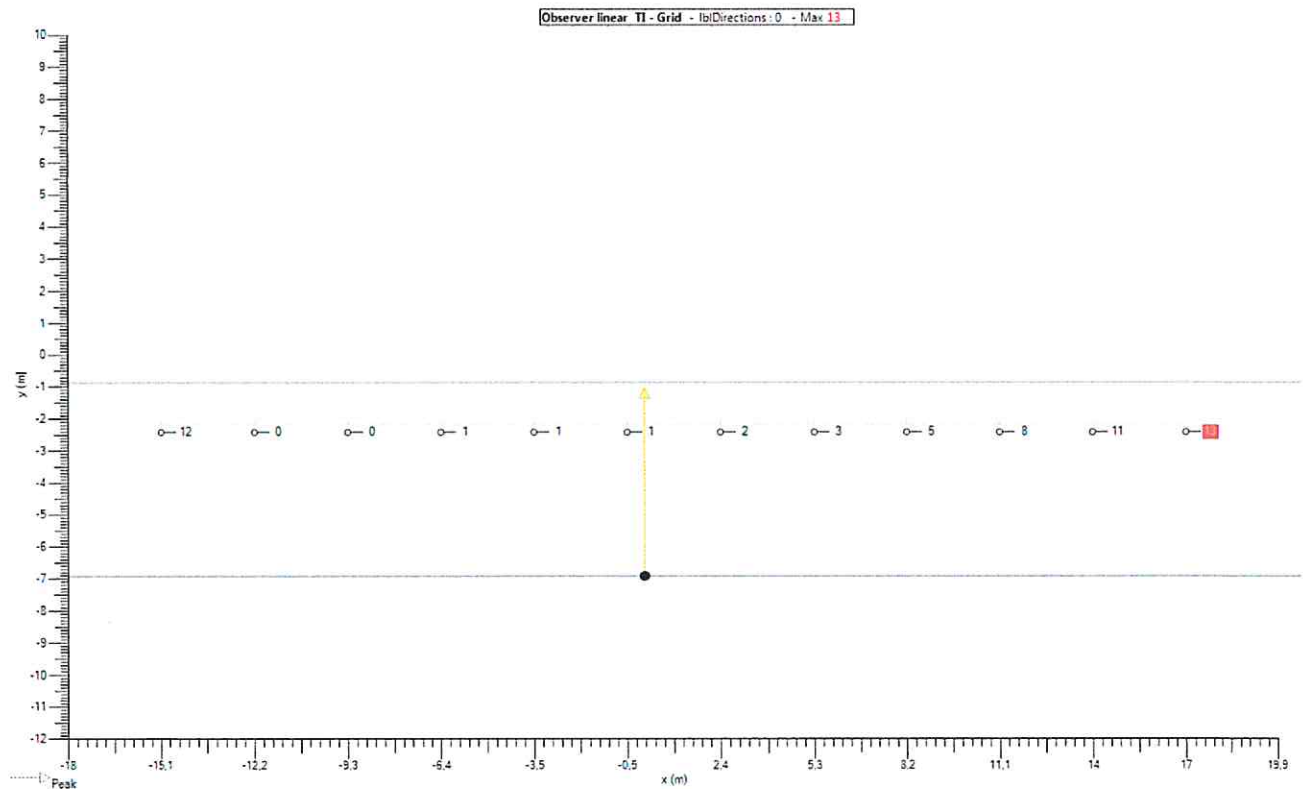


6.7. Multi-lanes (TI 2) - TI - Grid

Implantation




Values



7. Grids

7.1. Multi-lanes (LU)

General

Type Grid rectangular XY
Enabled ☒
Colour 

Geometry

Origin	X 1,46 m	Y -5,50 m	Z 0,00 m
Rotation	X 0,0°	Y 0,0°	Z 0,0°
Dimension	Count X 12	Count Y 6	
	Spacing X 2,92 m	Spacing Y 1,00 m	
	Size X 32,08 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 -15,13 m Y -4,50 m Z 1,50 m

Rotation X 0,0 ° Y 0,0 ° Z 0,0 °

Dimension Count 12 Spacing 2,92 m Size 32,08 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 -15,13 m Y -1,50 m Z 1,50 m

Rotation X 0,0 ° Y 0,0 ° Z 0,0 °

Dimension Count 12 Spacing 2,92 m Size 32,08 m