

Comune di Quarrata - Via Tintoretto

Standard EN 13201 : 2015

Designer Studio tecnico

Date 18/03/2022

Application Ulysse 3.5.2

Description Verifica Illuminotecnica Via Tintoretto

Categoria M3 : Strada Urbana di Quartiere

Teceo 1 32 led 900mA 90W ottica 5248

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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

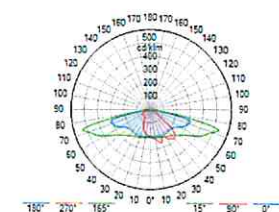
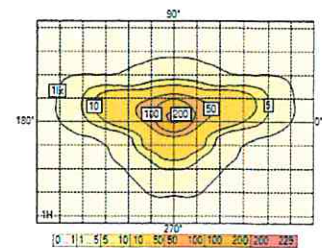
Luminaire wattage 91,0 W

MF 0,80

Matrix 468702

Luminaire flux 9,721 klm

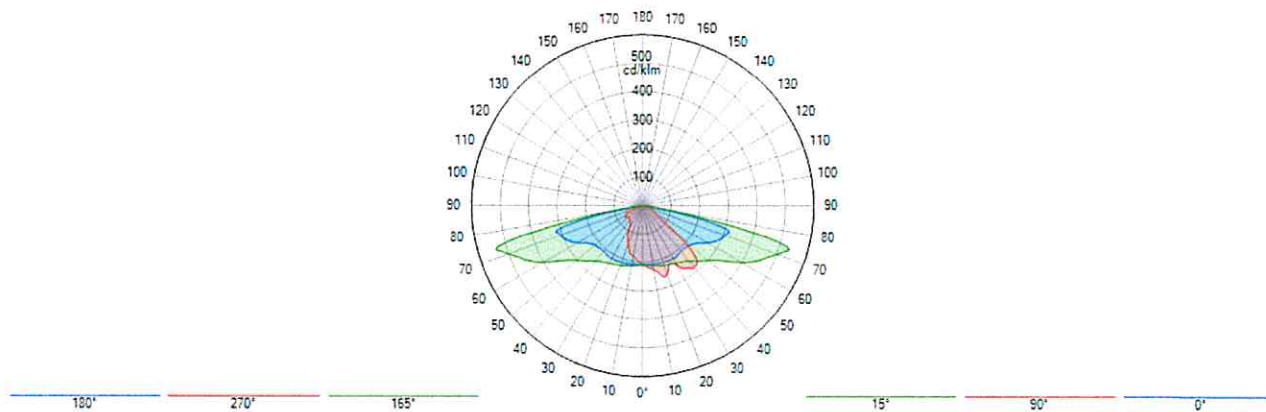
Efficacy 107 lm/W



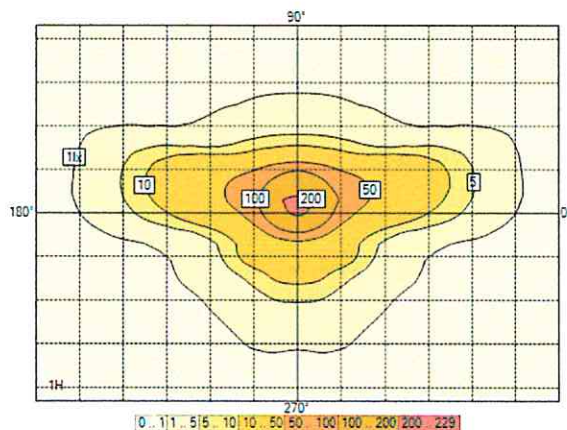
2. Photometric documents

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

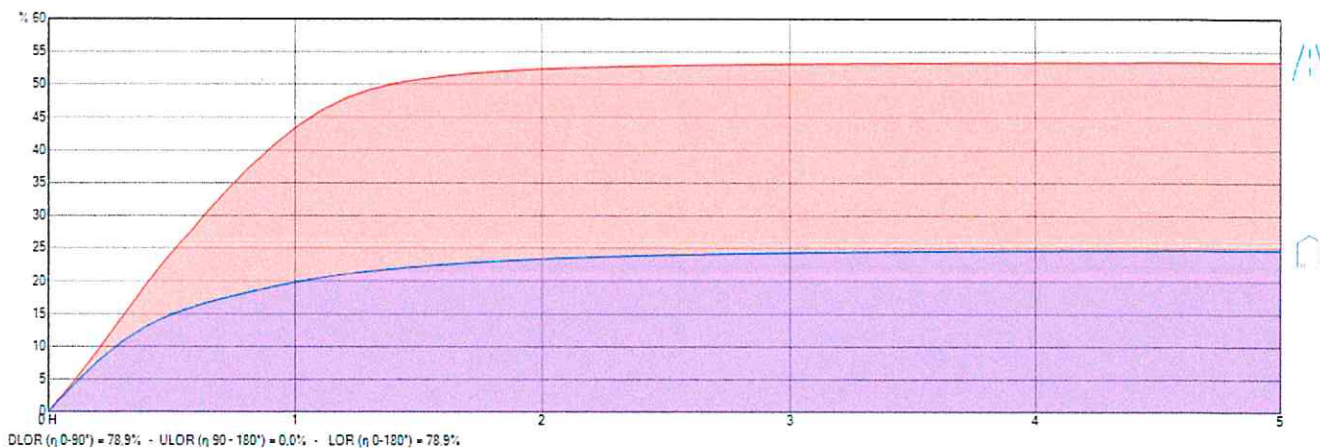
Polar/Cartesian diagram



Isolux



Utilization curve



3. Results

3.1. Grid summary

Multi-lanes (LU)

M3 (LU : Ave = 1,00 cd/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)	1,00	46	28	0,46	1,62	79 %	✓
Dynamic cross section - Observer 2 (-60,00; -2,00; 1,50)	1,09	46	29	0,50	1,73	73 %	✓

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)	1,00	46	28	0,46	1,62	79 %	✓
Dynamic cross section - Observer 2 (-60,00; -2,00; 1,50)	1,09	46	29	0,50	1,73	73 %	✓

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)	15	✓

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)	10	✓

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)	0,41	✓

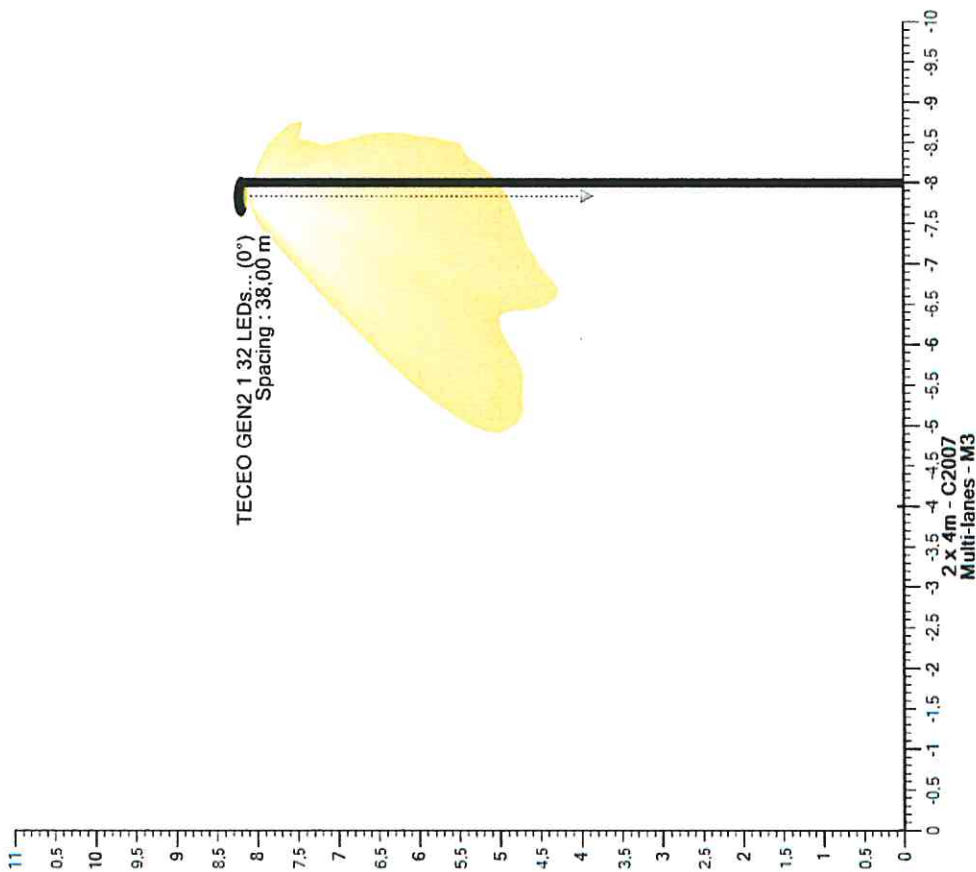
4. Power consumption

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	26	100 %	91 W	2406 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	5 x 8,20	

6.2. Luminaire positions

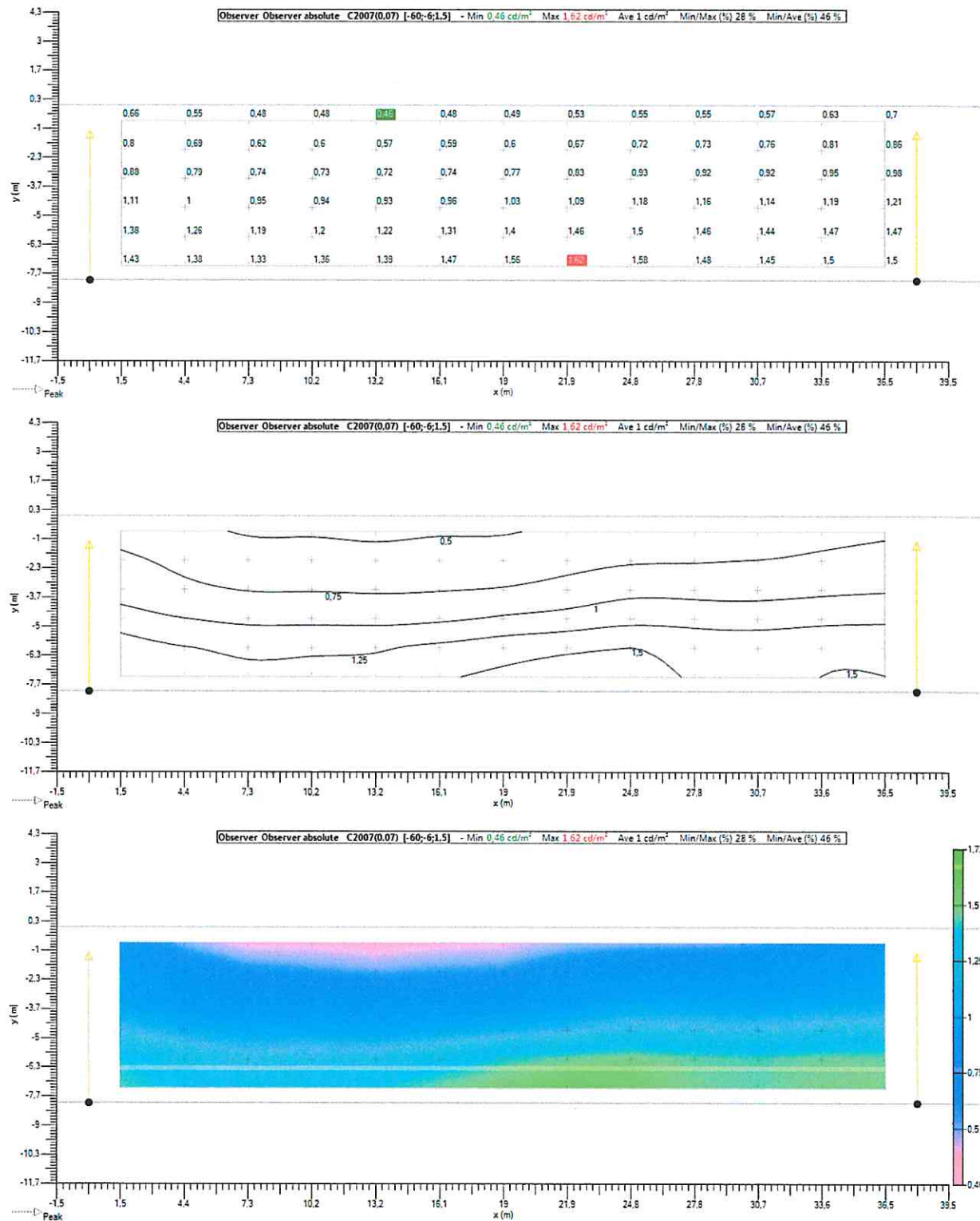
	Color	N°	Position			Luminaire							Target		
			X [m]	Y [m]	Z [m]	Name	Current [mA]	Az [°]	Incl [°]	Rot [°]	Flux [klm]	MF	X [m]	Y [m]	Z [m]
<input checked="" type="checkbox"/>		1	-38,00	-8,00	8,20	TECEO GEN2 1 32 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	12,319	0,800	-38,00	-8,00	0,00
<input checked="" type="checkbox"/>		2	0,00	-8,00	8,20	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	-8,00	0,00
<input checked="" type="checkbox"/>		3	38,00	-8,00	8,20	TECEO GEN2 1 32 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	12,319	0,800	38,00	-8,00	0,00
<input checked="" type="checkbox"/>		4	76,00	-8,00	8,20	TECEO GEN2 1 32 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	12,319	0,800	76,00	-8,00	0,00
<input checked="" type="checkbox"/>		5	114,00	-8,00	8,20	TECEO GEN2 1 32 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	0,0	0,0	12,319	0,800	114,00	-8,00	0,00

6.3. Luminaire groups

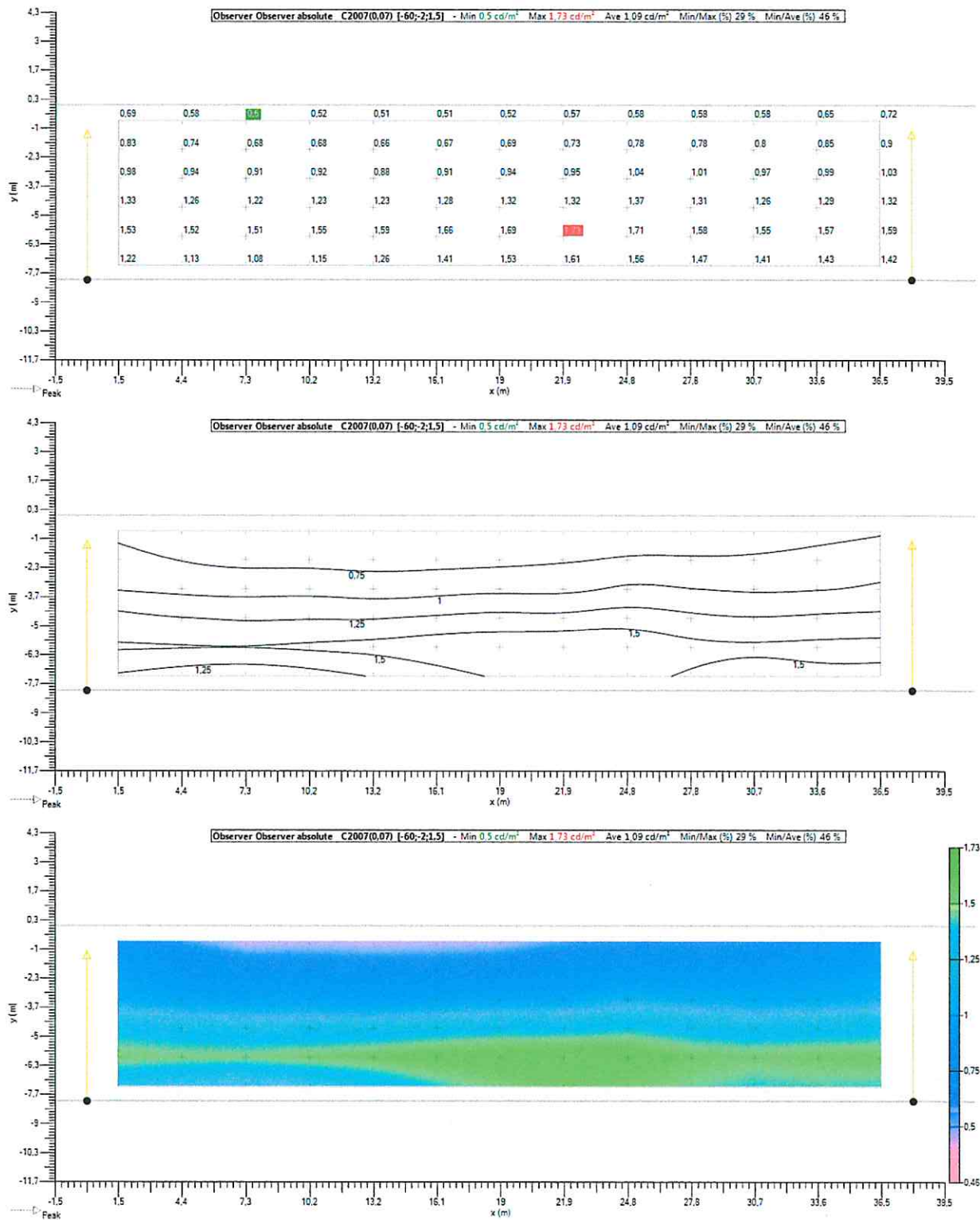
Linear																
	Color	N°	Position			Luminaire					Dimension			Rotation		
			X [m]	Y [m]	Z [m]	Name	Az [°]	Incl [°]	Rot [°]	Dim [%]	Count	Spacing [m]	Size [m]	X [°]	Y [°]	Z [°]
<input checked="" type="checkbox"/>		1	-38,00	-8,00	8,20	Fixture right	0,0	0,0	0,0	100	5	38,00	152,00	0,0	0,0	0,0

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

Multi-lanes (LU) - Absolute 1

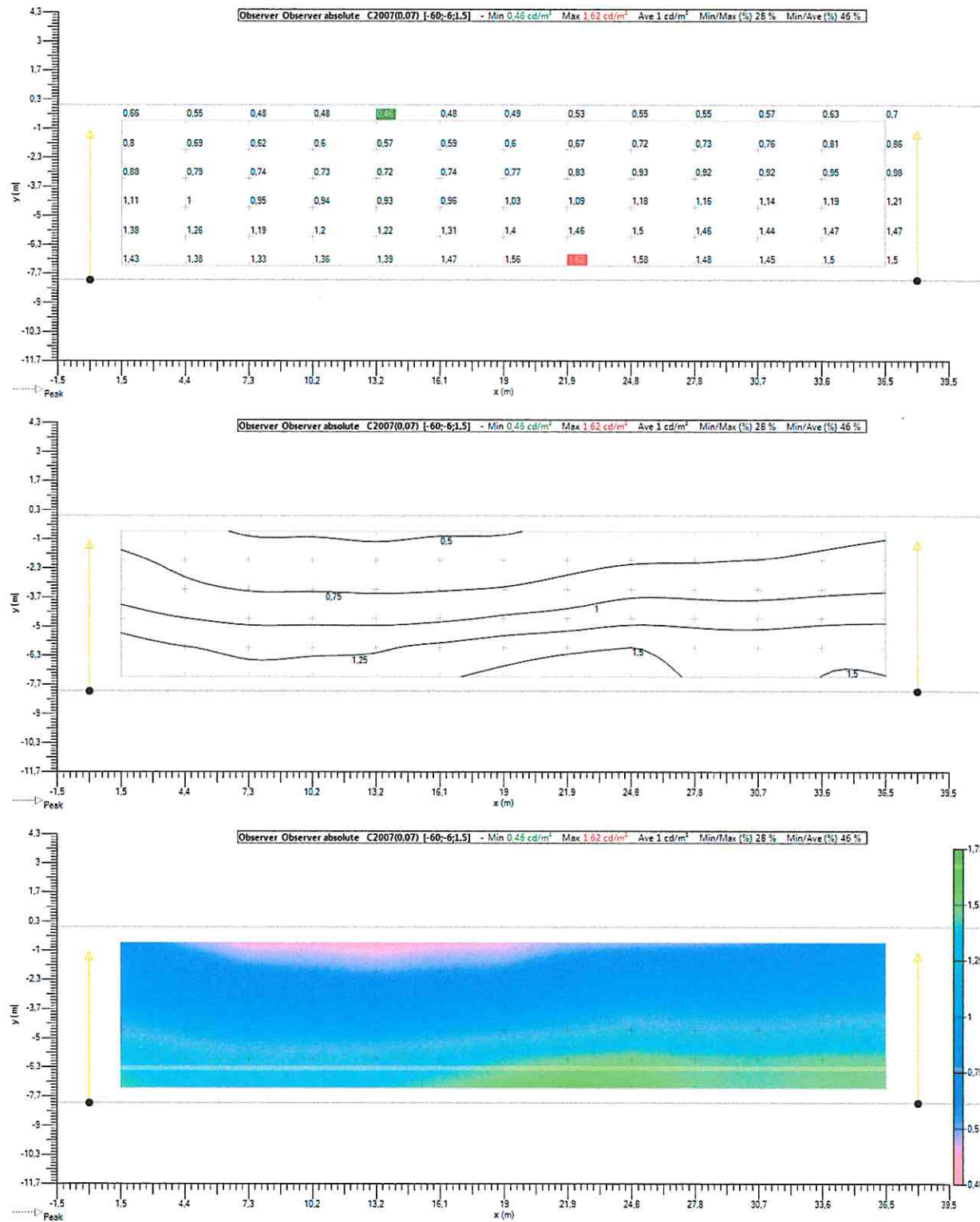


Multi-lanes (LU) - Absolute 2

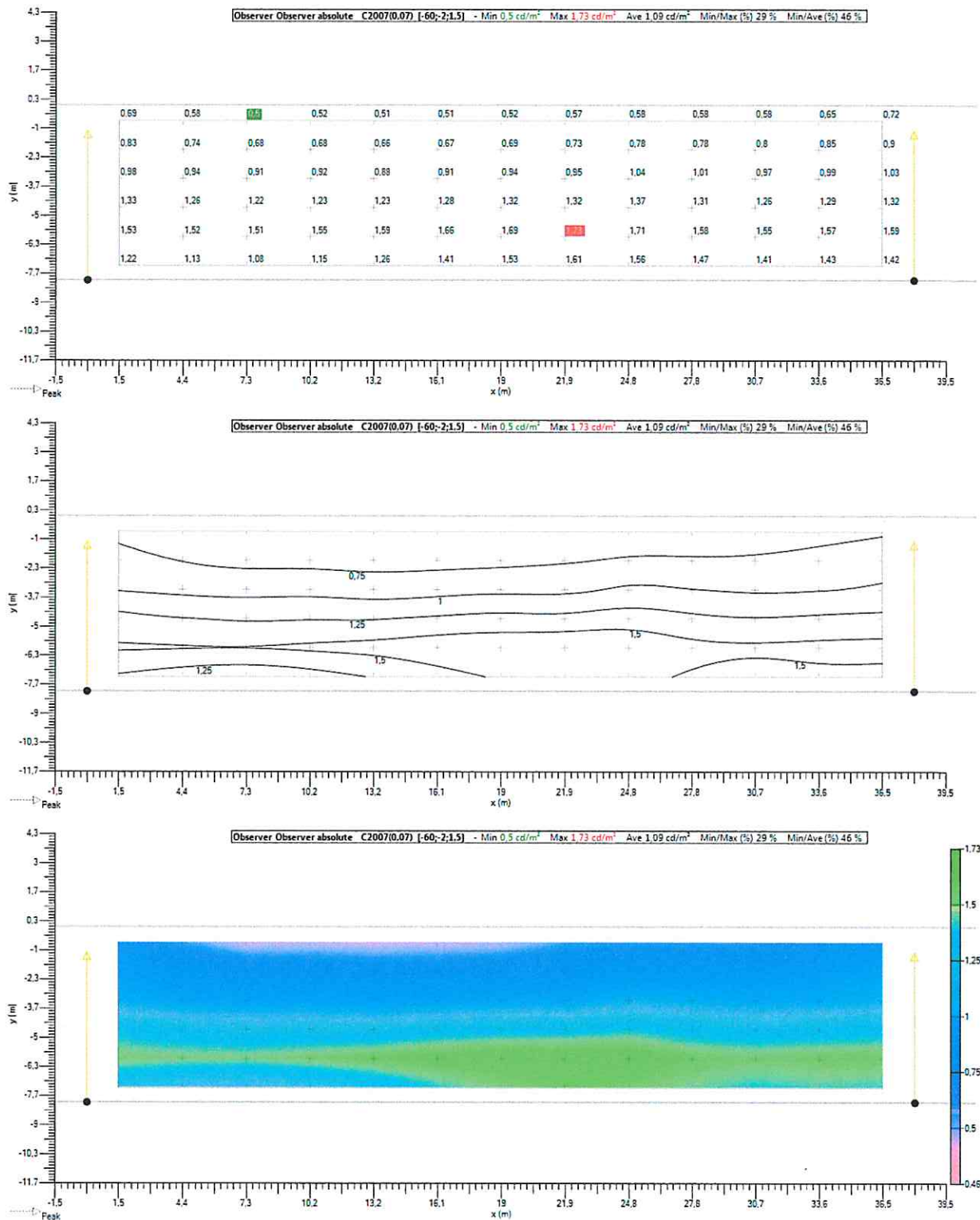


6.5. Luminance - Multi-lanes (LU) - C2007

Multi-lanes (LU) - Optional - Absolute 1

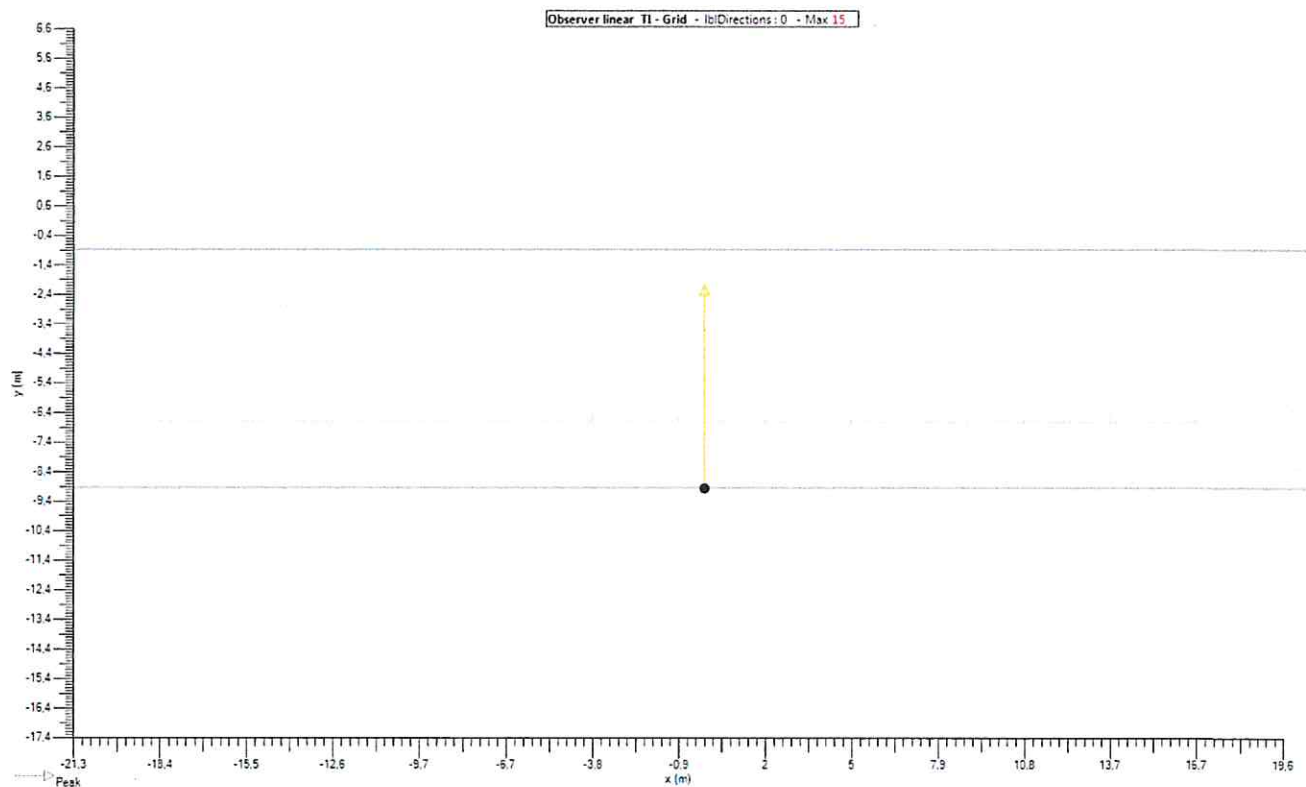


Multi-lanes (LU) - Optional - Absolute 2

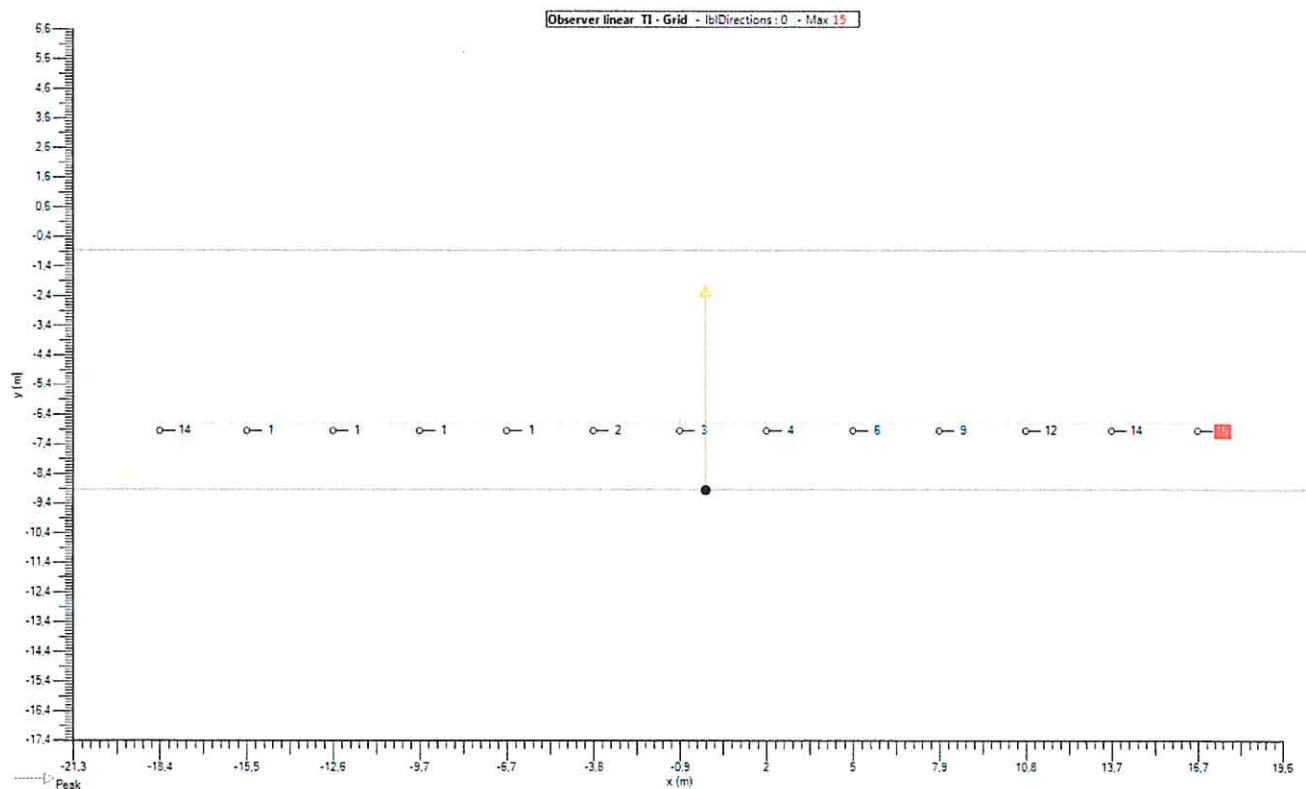


6.6. Multi-lanes (TI 1) - TI - Grid

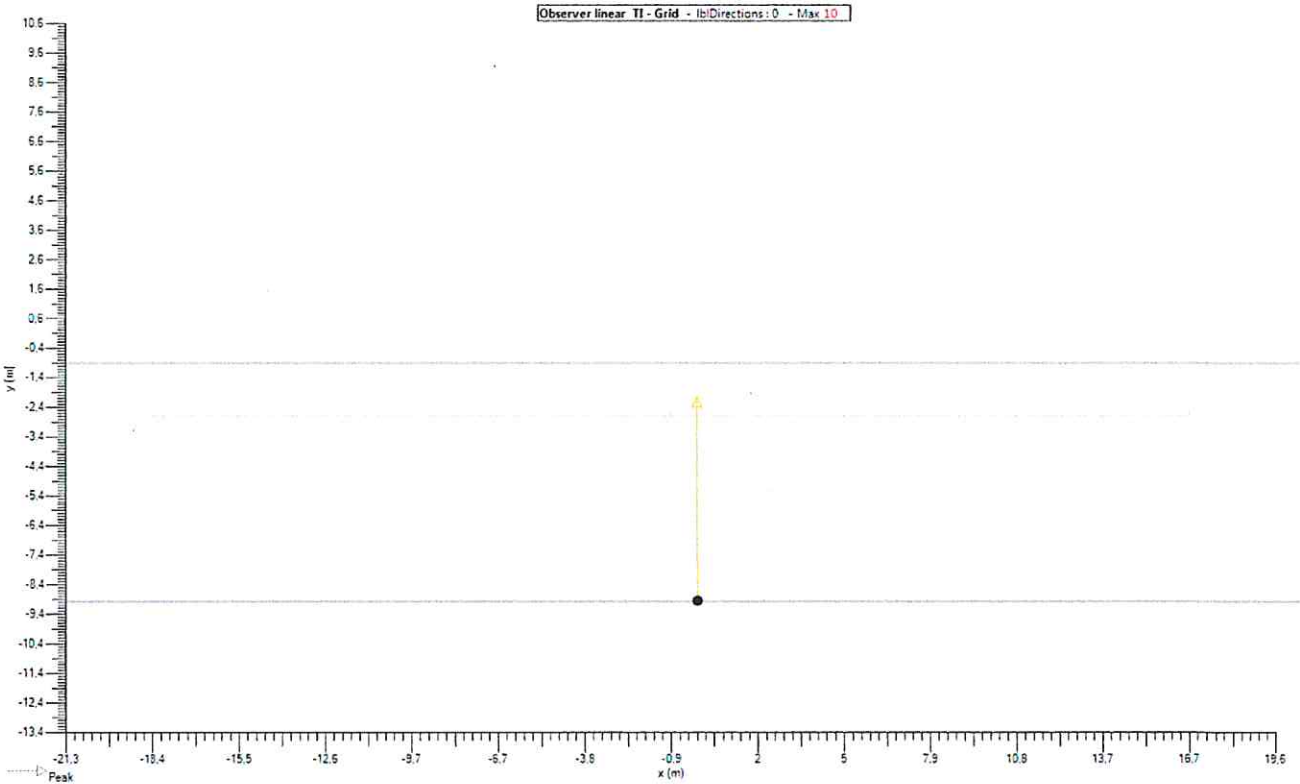
Implantation



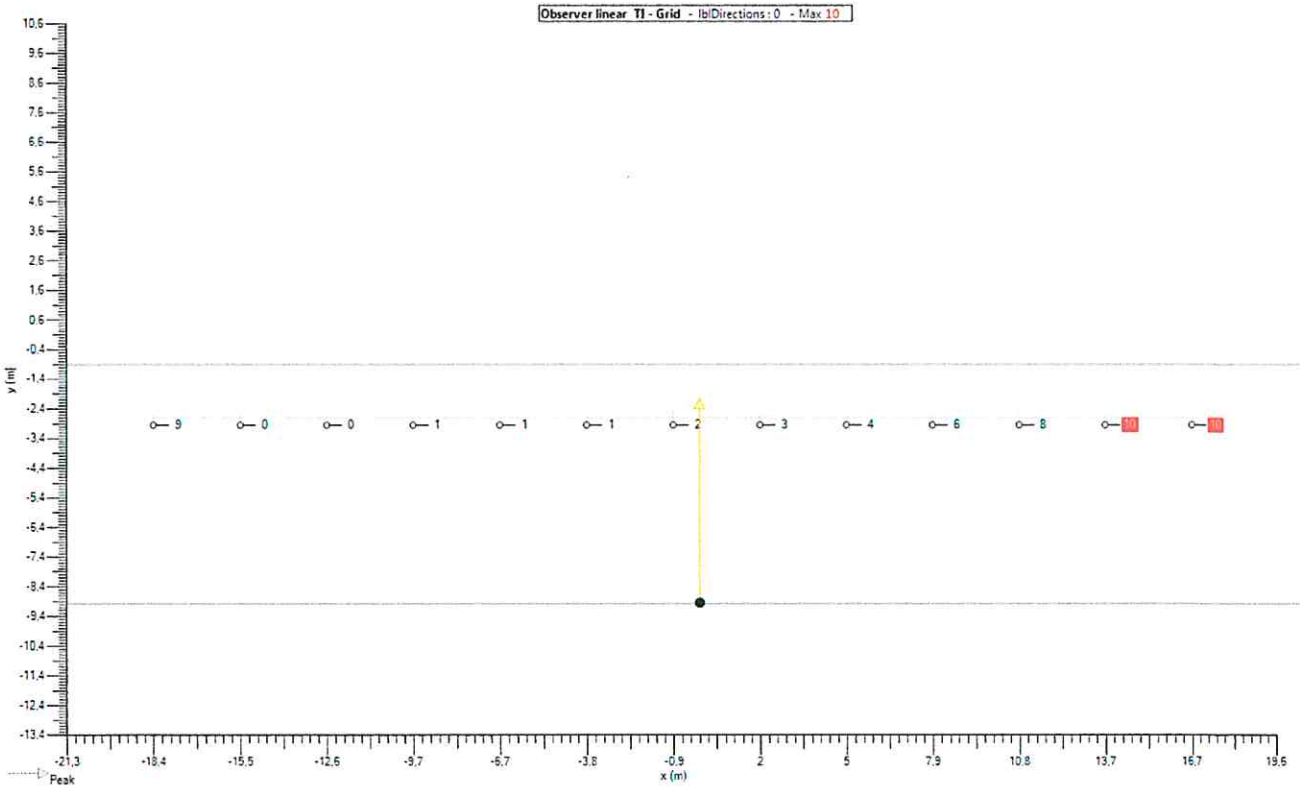
Values



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 -7,33 m	Z 0,00 m
Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Dimension	Count X 13	Count Y 6	
	Spacing X 2,92 m	Spacing Y 1,33 m	
	Size X 35,08 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 -18,43 m	Y -6,00 m	Z 1,50 m
Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Dimension	Count 13	Spacing 2,92 m	Size 35,08 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 -18,43 m	Y -2,00 m	Z 1,50 m
Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Dimension	Count 13	Spacing 2,92 m	Size 35,08 m