

Comune di Quarrata - Via Giotto

Standard EN 13201 : 2015

Designer Studio Tecnico

Date 18/03/2022

Application Ulysse 3.5.2

Description Verifica Illuminotecnica Via Giotto

Categoria M3 : Strada Urbana di Quartiere

Teceo 1 40led 900mA 118W ottica 5248

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1. Fixtures

1.1. TECEO GEN2 1 40 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702

Type TECEO GEN2 1

Reflector 5248

Source 40 LEDs 900mA WW730

Protector Piano, Vetro extra chiaro, Liscio

Source flux 15,399 klm

G* 2

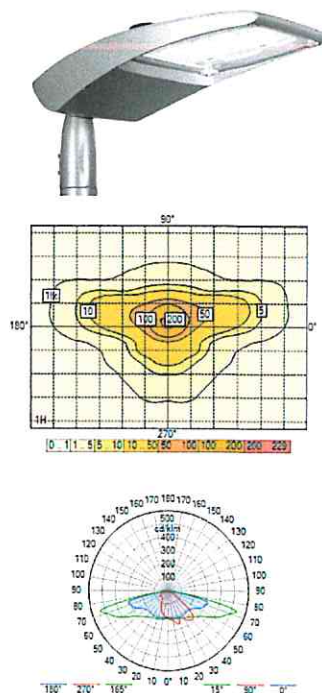
Luminaire wattage 113,0 W

MF 0,80

Matrix 468702

Luminaire flux 12,151 klm

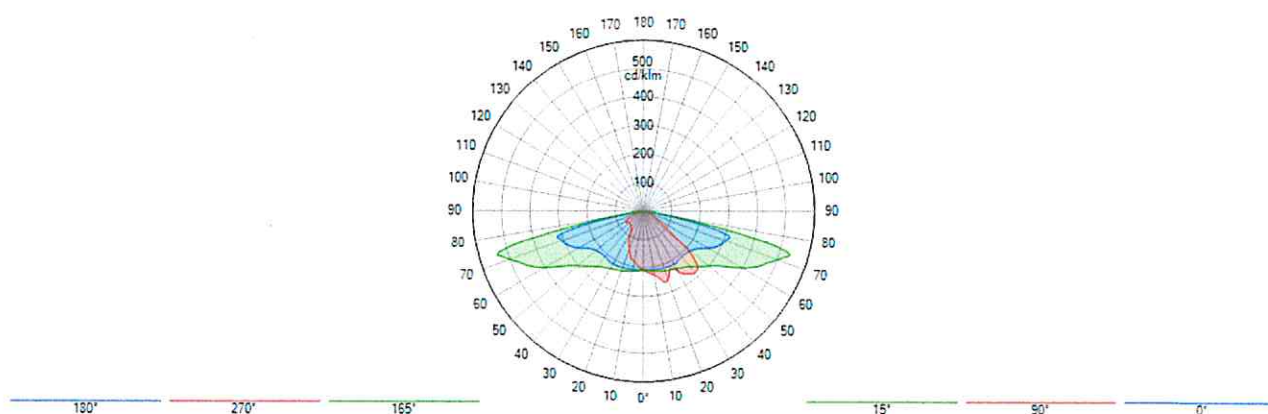
Efficacy 108 lm/W



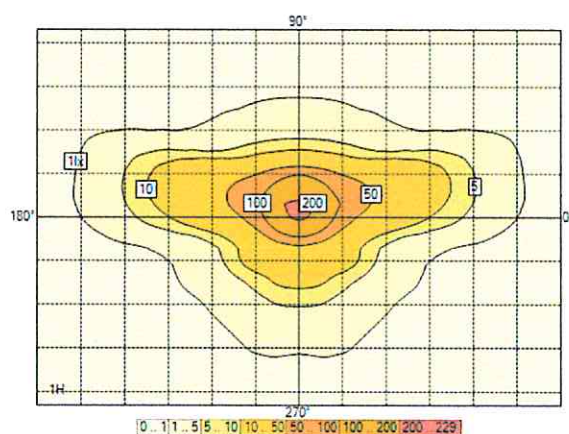
2. Photometric documents

2.1. TECEO GEN2 1 40 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702

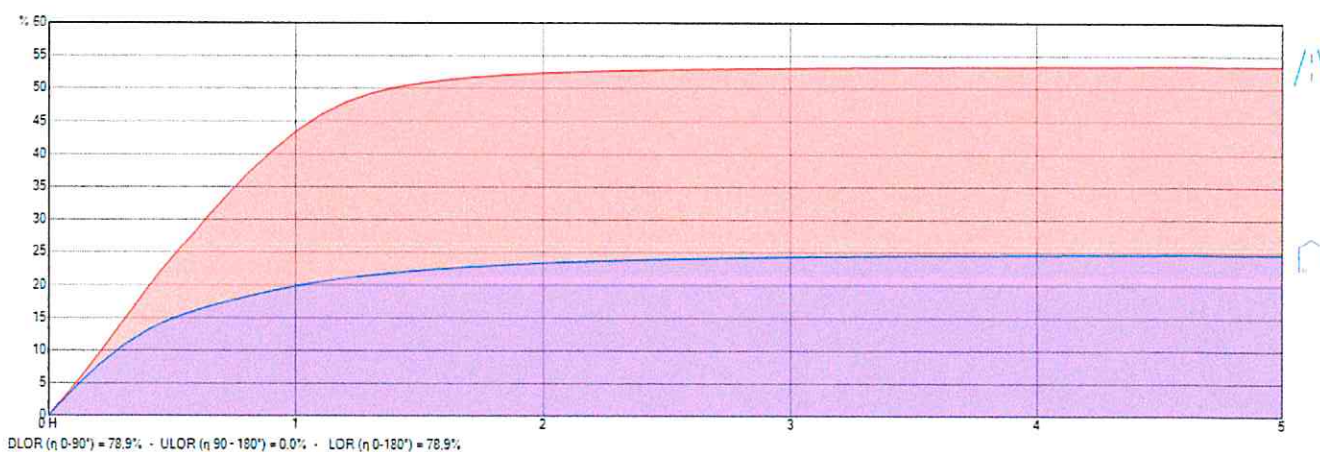
Polar/Cartesian diagram



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; -7,50; 1,50)	1,16	44	29	0,51	1,79	81 %	✓
Dynamic cross section - Observer 2 (-60,00; -2,50; 1,50)	1,27	43	27	0,55	2,05	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; -7,50; 1,50)	1,16	44	29	0,51	1,79	81 %	✓
Dynamic cross section - Observer 2 (-60,00; -2,50; 1,50)	1,27	43	27	0,55	2,05	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)	0,39	✓

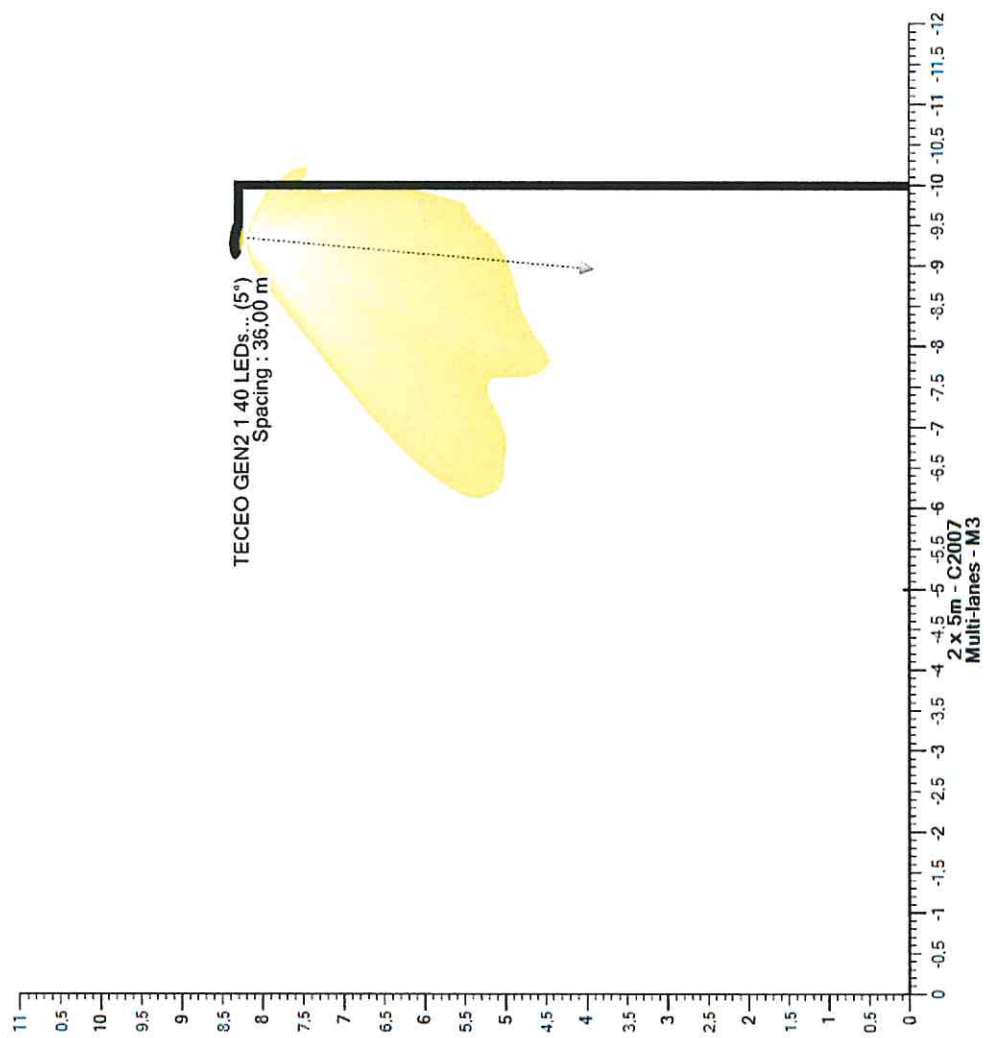
4. Power consumption

4.1. Dynamic cross section

Fixture	Current [mA]	Qty	Dimming	Power / Fixture	Total
TECEO GEN2 1 40 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	900	28	100 %	113 W	3142 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 40 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	900	15,399	12,151	113,1	107	0,800	5 x 8,30	

6.2. Luminaire positions

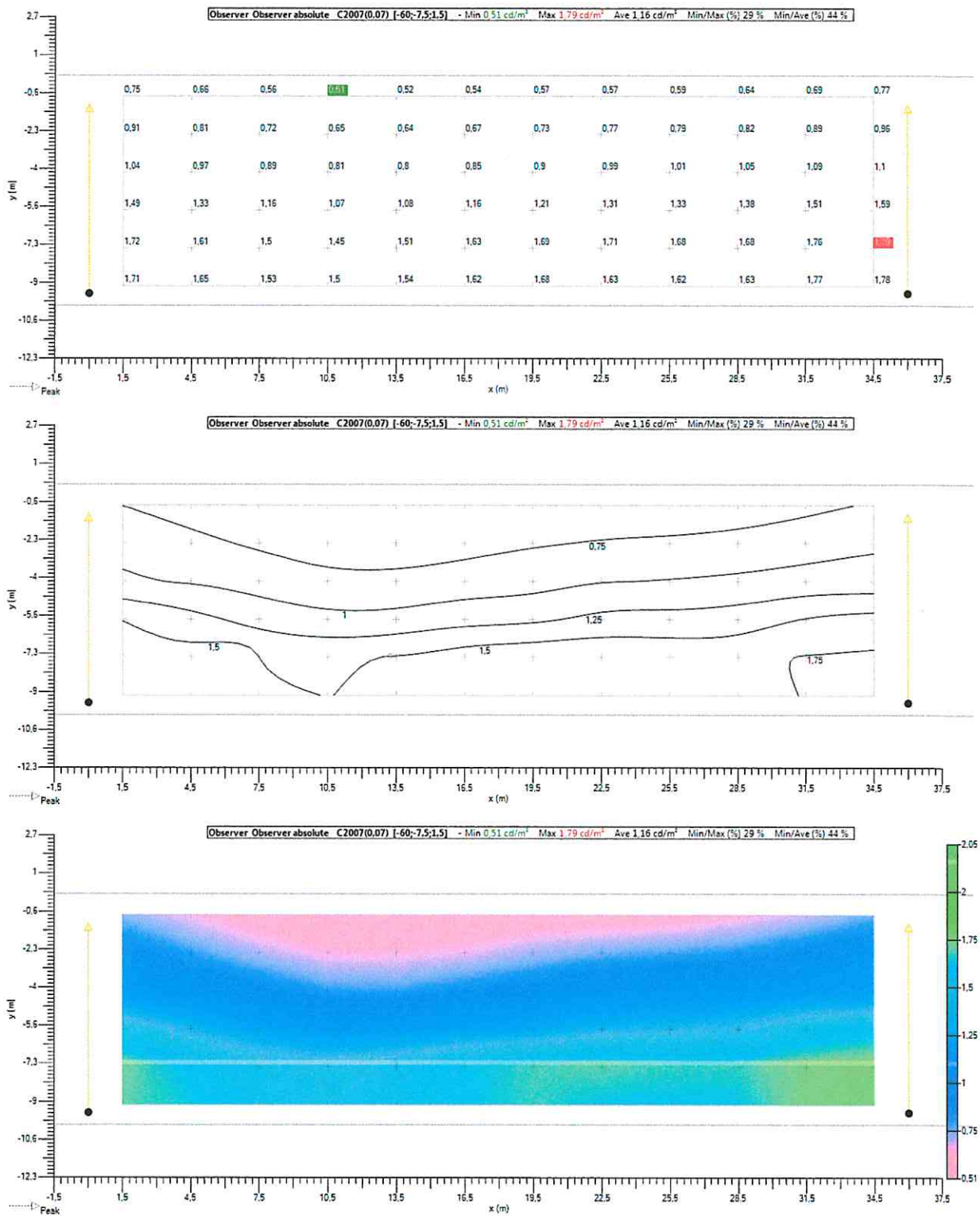
	Color	N°	Position			Luminaire							Target		
			X [m]	Y [m]	Z [m]	Name	Current [mA]	Az [°]	Incl [°]	Rot [°]	Flux [klm]	MF	X [m]	Y [m]	Z [m]
<input checked="" type="checkbox"/>		1	-36,00	-9,50	8,30	TECEO GEN2 1 40 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	5,0	0,0	15,399	0,800	-36,00	-8,77	0,00
<input checked="" type="checkbox"/>		2	0,00	-9,50	8,30	TECEO GEN2 1 40 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	5,0	0,0	15,399	0,800	0,00	-8,77	0,00
<input checked="" type="checkbox"/>		3	36,00	-9,50	8,30	TECEO GEN2 1 40 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	5,0	0,0	15,399	0,800	36,00	-8,77	0,00
<input checked="" type="checkbox"/>		4	72,00	-9,50	8,30	TECEO GEN2 1 40 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	5,0	0,0	15,399	0,800	72,00	-8,77	0,00
<input checked="" type="checkbox"/>		5	108,00	-9,50	8,30	TECEO GEN2 1 40 LEDs 900mA WW730 Piano, Vetro extra chiaro, Liscio 5248 468702	-	0,0	5,0	0,0	15,399	0,800	108,00	-8,77	0,00

6.3. Luminaire groups

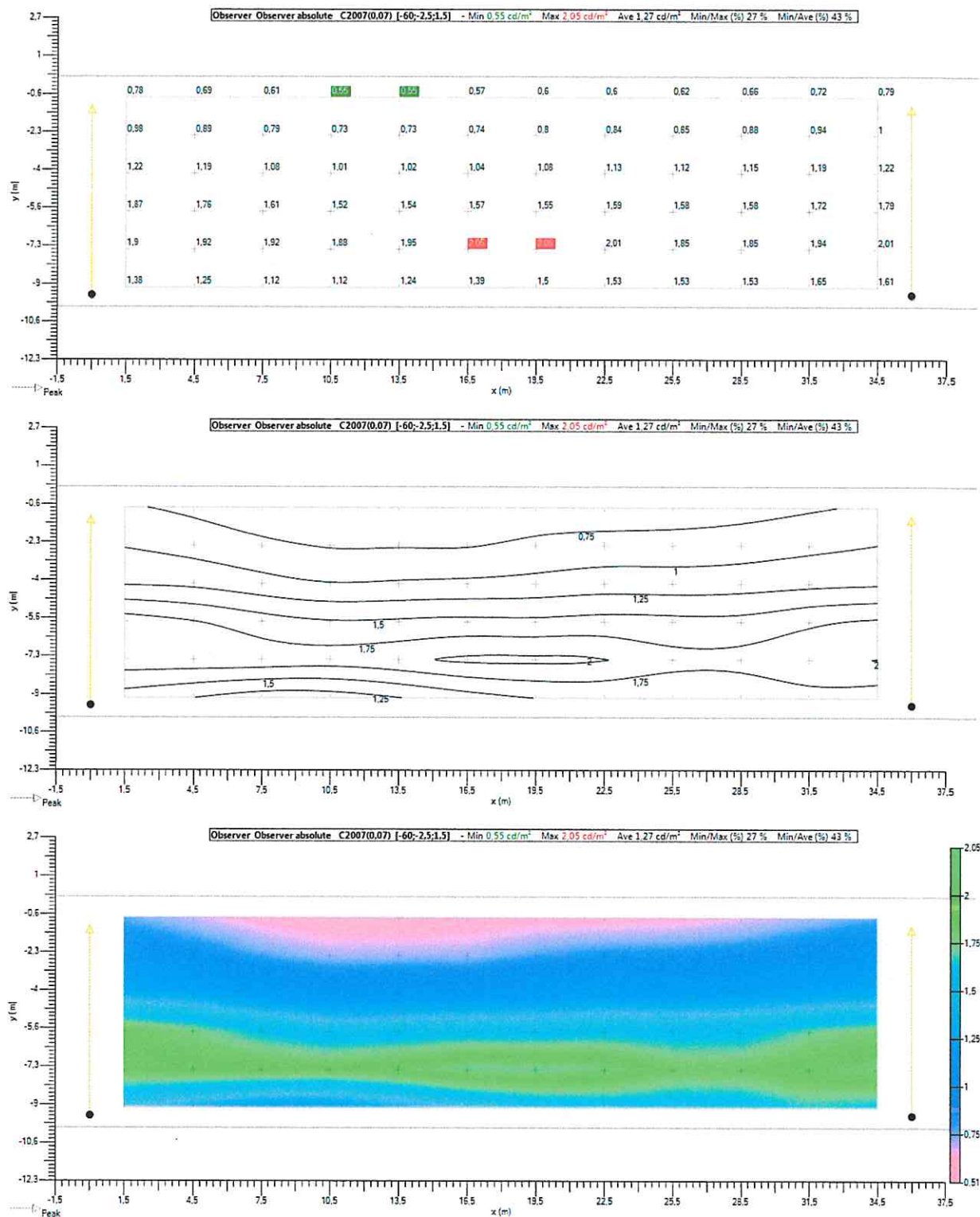
Linear																
	Color	N°	Position			Luminaire					Dimension			Rotation		
			X [m]	Y [m]	Z [m]	Name	Az [°]	Incl [°]	Rot [°]	Dim [%]	Count	Spacing [m]	Size [m]	X [°]	Y [°]	Z [°]
<input checked="" type="checkbox"/>		1	-36,00	-9,50	8,30	Fixture right	0,0	5,0	0,0	100	5	36,00	144,00	0,0	0,0	0,0

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

Multi-lanes (LU) - Absolute 1

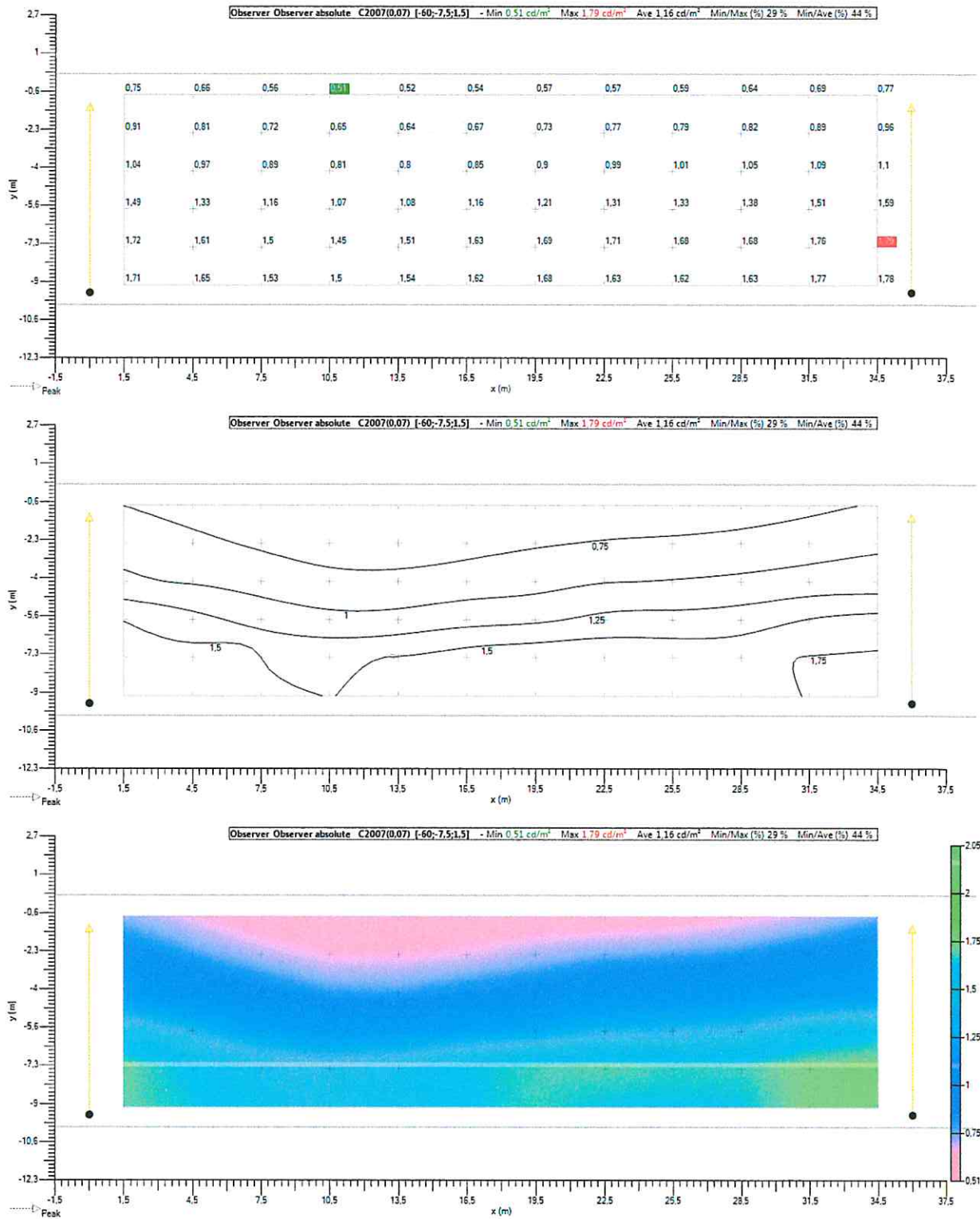


Multi-lanes (LU) - Absolute 2

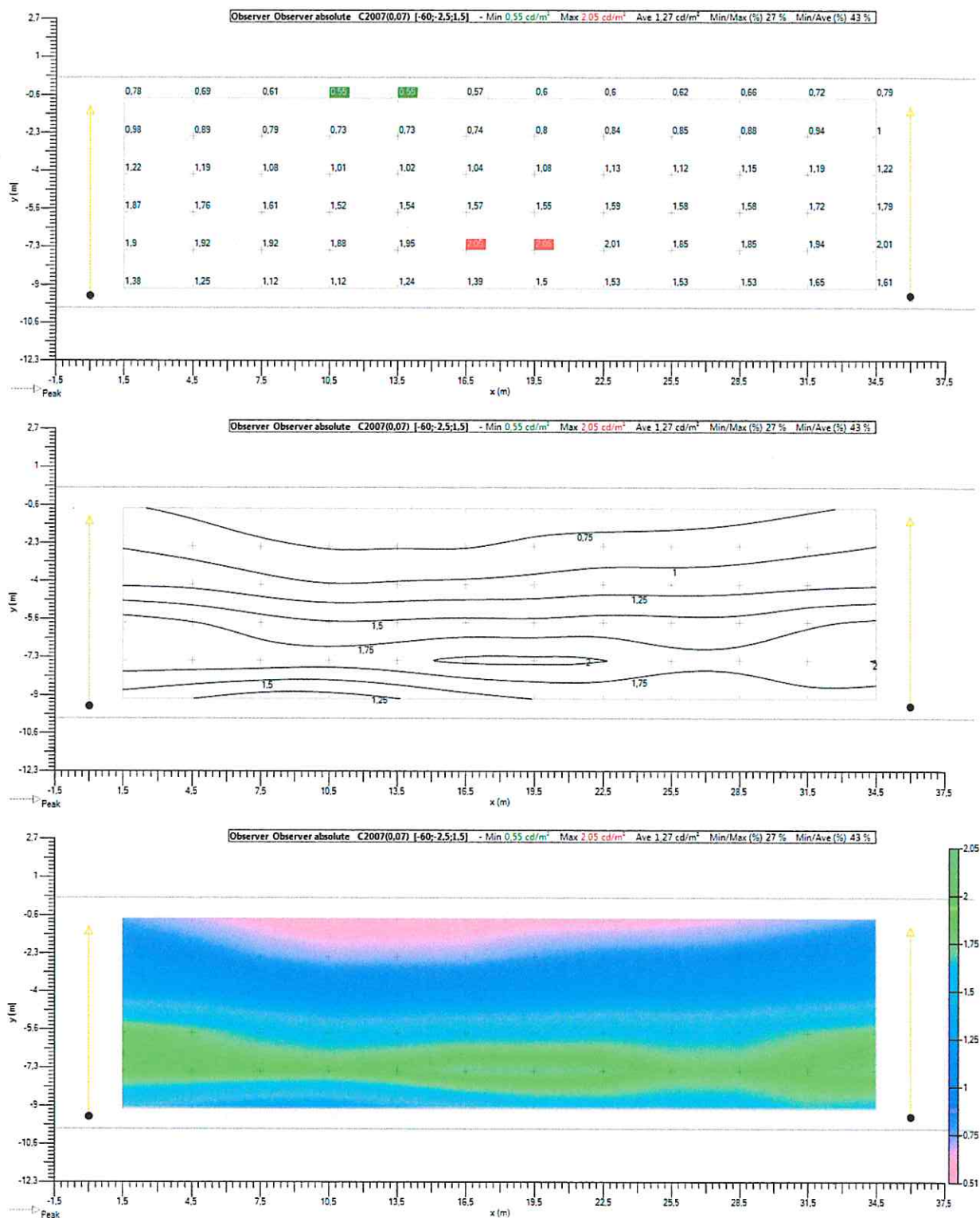


6.5. Luminance - Multi-lanes (LU) - C2007

Multi-lanes (LU) - Optional - Absolute 1

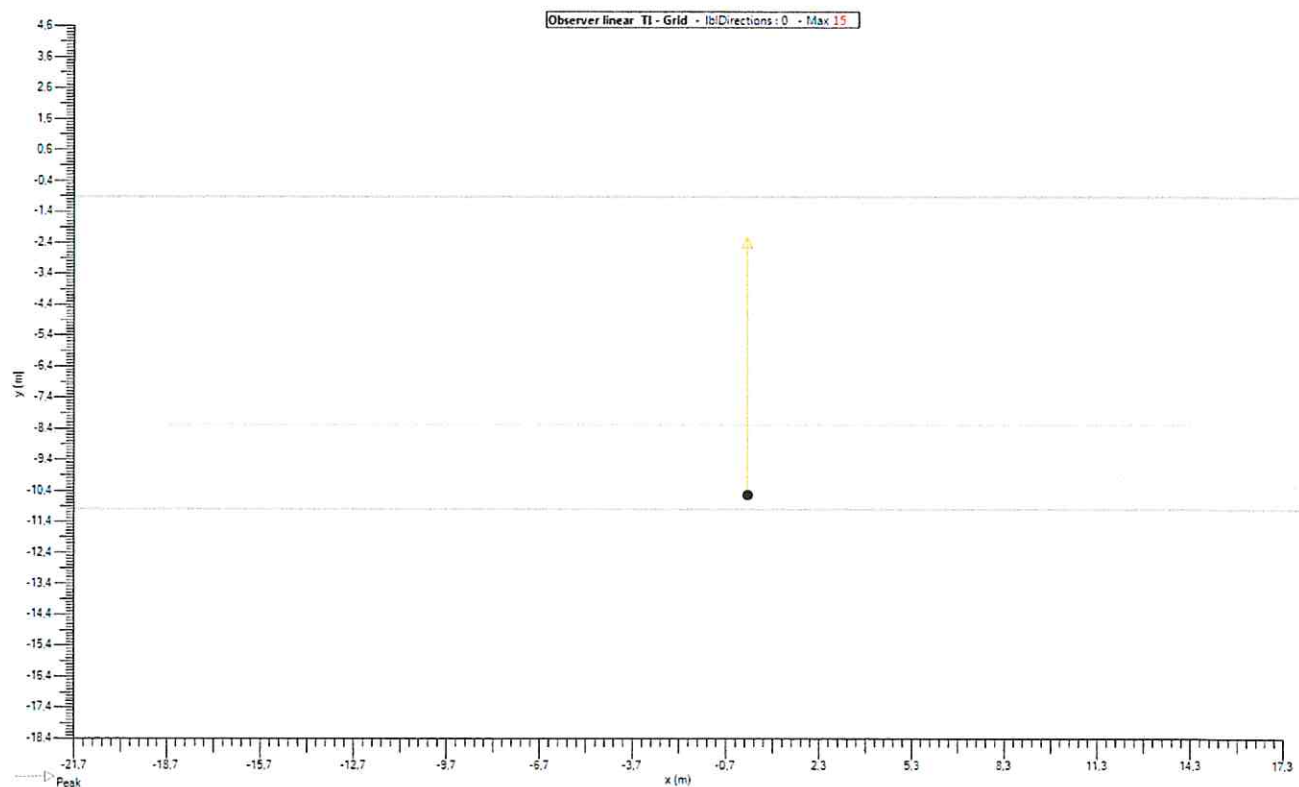


Multi-lanes (LU) - Optional - Absolute 2

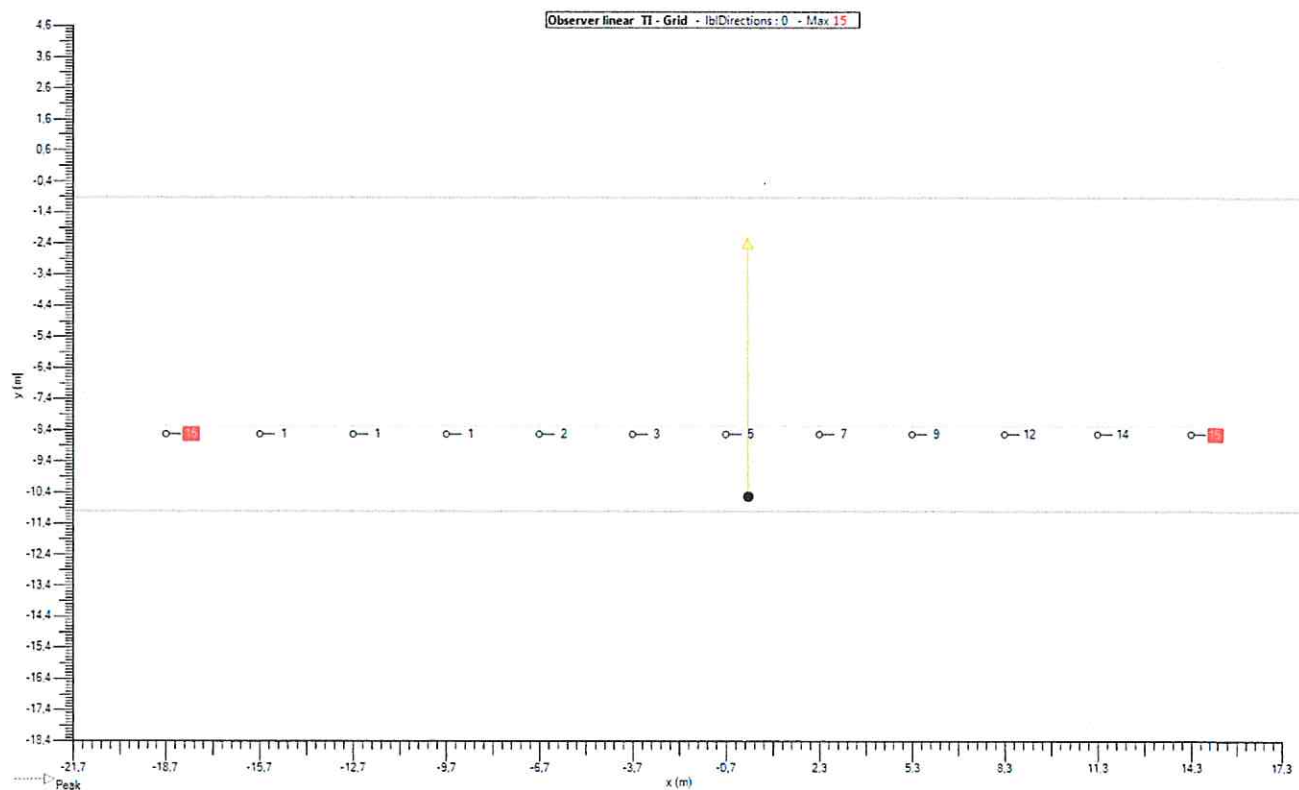


6.6. Multi-lanes (TI 1) - TI - Grid

Implantation

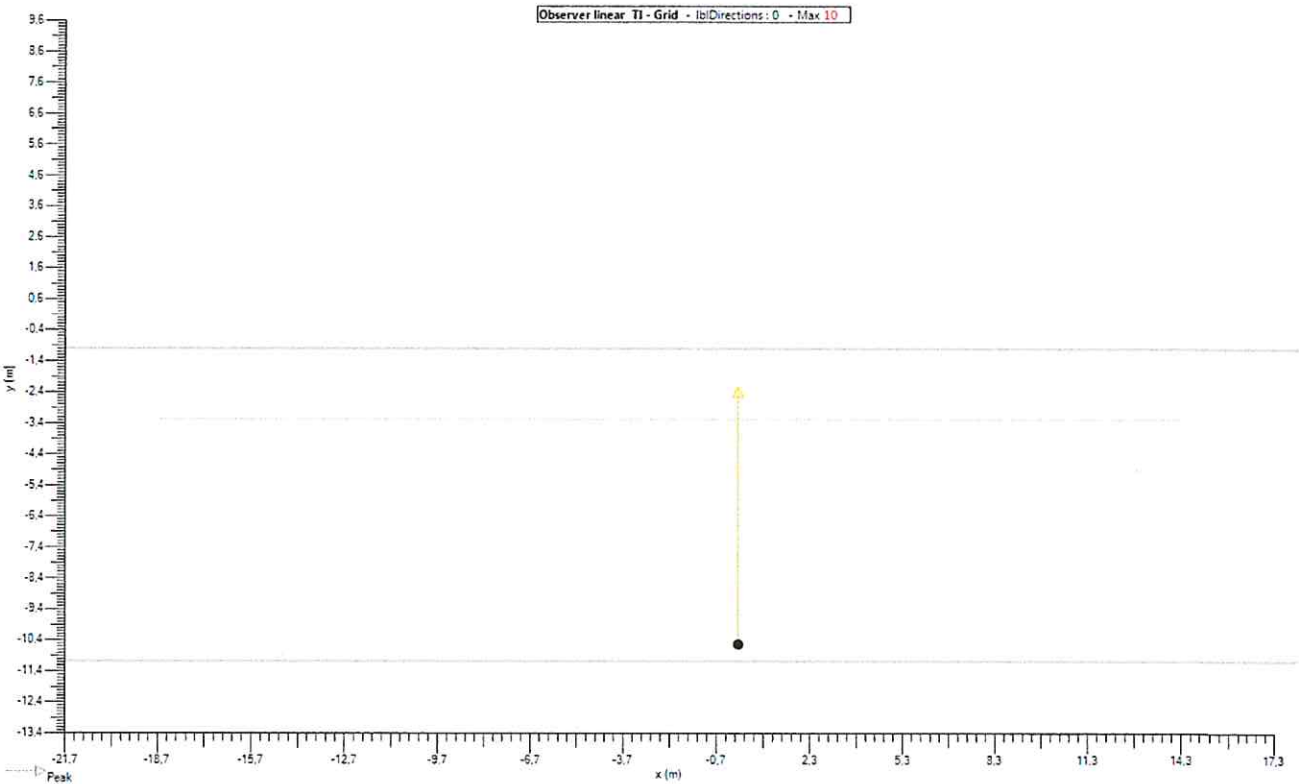


Values

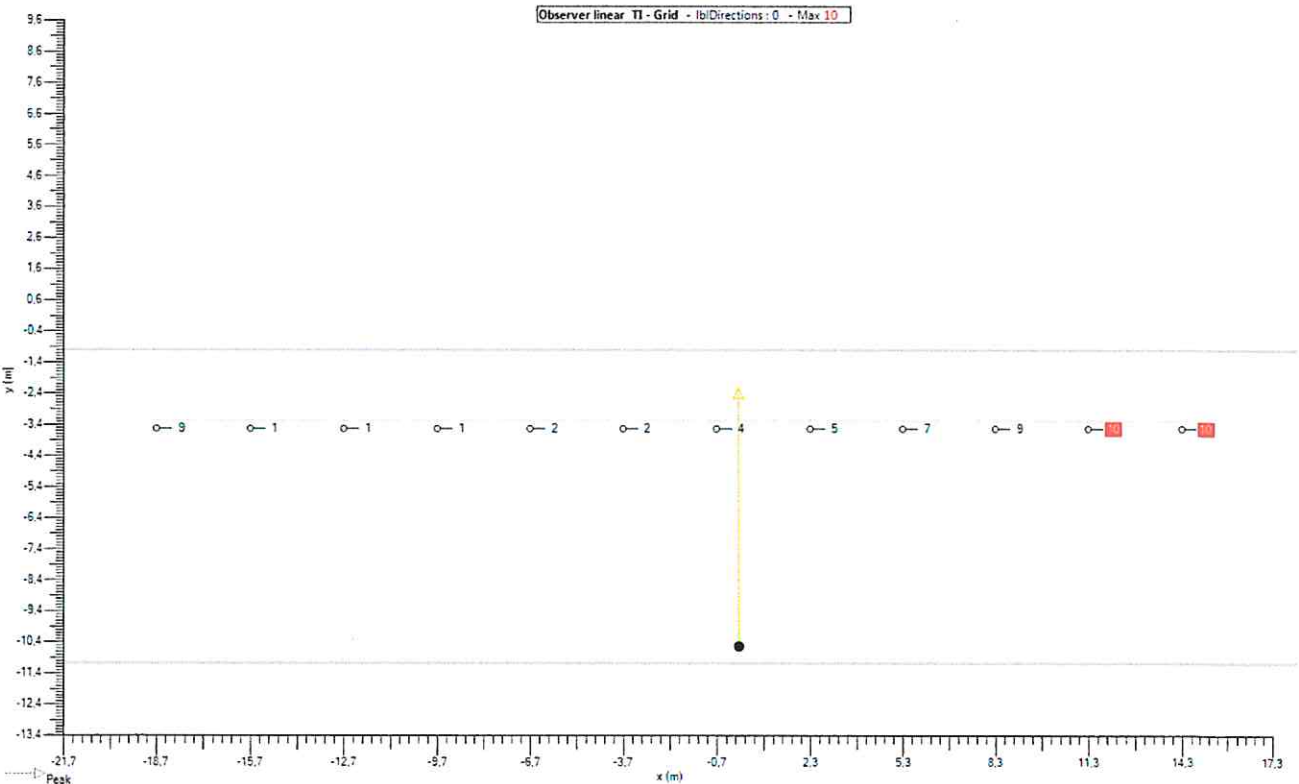


6.7. Multi-lanes (TI 2) - TI - Grid

Implantation



Values




7. Grids

7.1. Multi-lanes (LU)

General

Type Grid rectangular XY

Enabled ☒

Colour 

Geometry

Origin	X 1,50 m	Y -9,17 m	Z 0,00 m
Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Dimension	Count X 12	Count Y 6	
	Spacing X 3,00 m	Spacing Y 1,67 m	
	Size X 33,00 m	Size Y 8,33 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 -18,70 m Y -7,50 m Z 1,50 m

Rotation X 0,0° Y 0,0° Z 0,0°

Dimension Count 12 Spacing 3,00 m Size 33,00 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 -18,70 m Y -2,50 m Z 1,50 m

Rotation X 0,0° Y 0,0° Z 0,0°

Dimension Count 12 Spacing 3,00 m Size 33,00 m