

Comune di Quarrata - Via Statale

Standard EN 13201 : 2015

Designer Studio Tecnico

Date 21/03/2022

Application Ulysse 3.5.2

Description Verifica Illuminotecnica Via Statale

Categoria M2 : strada di collegamento

Teceo 2 72led 700mA 151W ottica 5117

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1. Fixtures

1.1. TECEO GEN2 2 72 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5117 467062

Type TECEO GEN2 2

Reflector 5117

Source 72 LEDs 700mA WW730

Protector Piano, Vetro extra chiaro, Liscio

Source flux 22,557 klm

G* 3

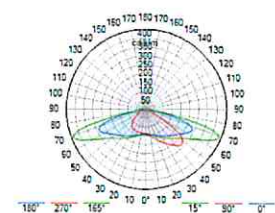
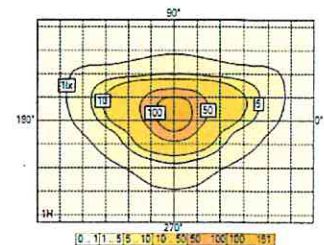
Luminaire wattage 151,0 W

MF 0,80

Matrix 467062

Luminaire flux 18,494 klm

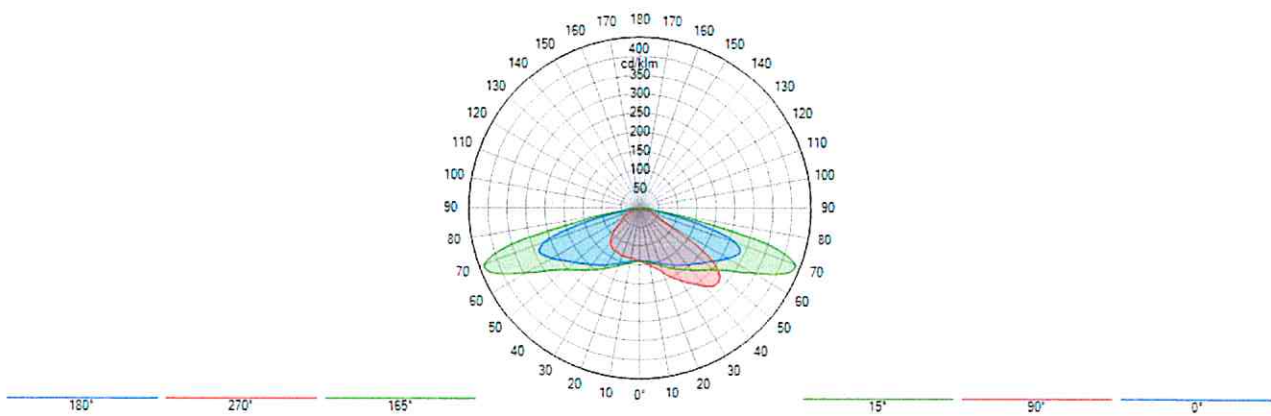
Efficacy 122 lm/W



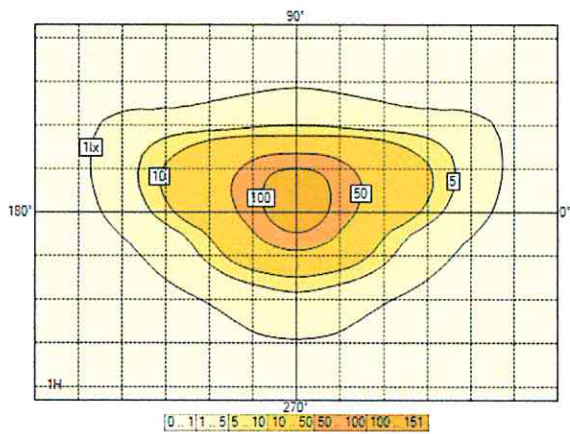
2. Photometric documents

2.1. TECEO GEN2 2 72 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5117 467062

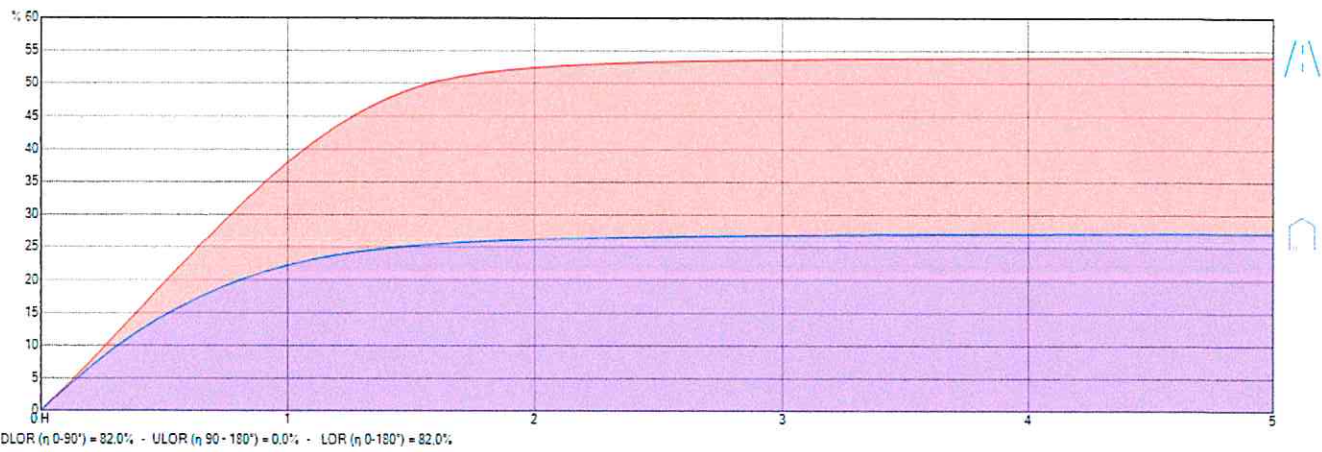
Polar/Cartesian diagram



Isolux



Utilization curve



DLOR (η 0-90°) = 82.0% - ULOR (η 90-180°) = 0.0% - LOR (η 0-180°) = 82.0%

3. Results

3.1. Grid summary

Multi-lanes (LU)

M2 (LU : Ave = 1,50 cd/m² Uo = 40 % UI = 70 % UoW = 15 % TI : 10 % EIR : 0,35)

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; -9,00; 1,50)	1,50	56	39	0,84	2,15	93 %	✓
Dynamic cross section - Observer 2 (-60,00; -3,00; 1,50)	1,63	55	37	0,90	2,42	85 %	✓

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; -9,00; 1,50)	1,50	56	39	0,84	2,15	93 %	✓
Dynamic cross section - Observer 2 (-60,00; -3,00; 1,50)	1,63	55	37	0,90	2,42	85 %	✓

3.2. Observer summary

Multi-lanes (TI 1)

M2 (LU : Ave = 1,50 cd/m² 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/m² 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/m² Uo = 40 % UI = 70 % UoW = 15 % TI : 10 % EIR : 0,35)

	EIR road	
Dynamic cross section - Multi-lanes (EIR)	0,54	✓

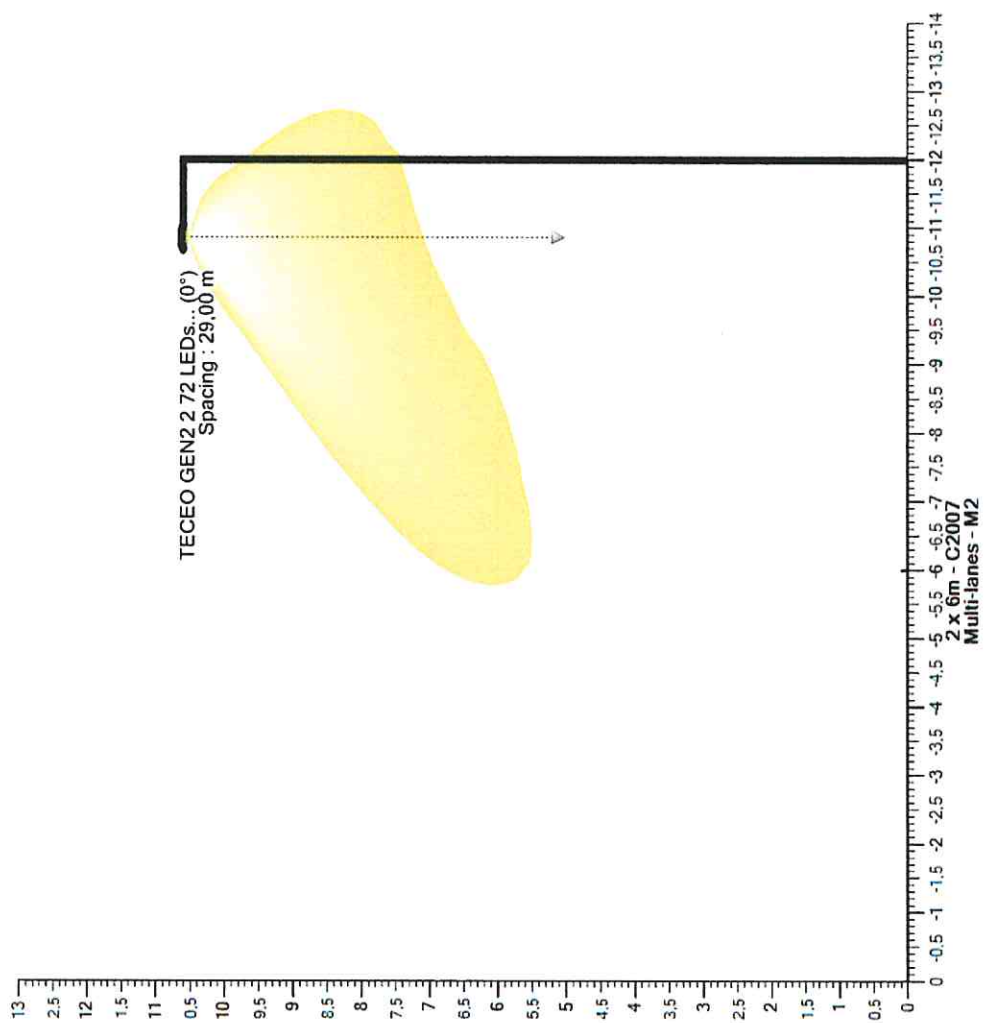
4. Power consumption

4.1. Dynamic cross section

Fixture	Current [mA]	Qty	Dimming	Power / Fixture	Total
TECEO GEN2 2 72 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5117 467062	700	34	100 %	151 W	5193 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 2 72 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5117 467062	700	22,557	18,494	150,6	123	0,800	7 x 10,60	

6.2. Luminaire positions

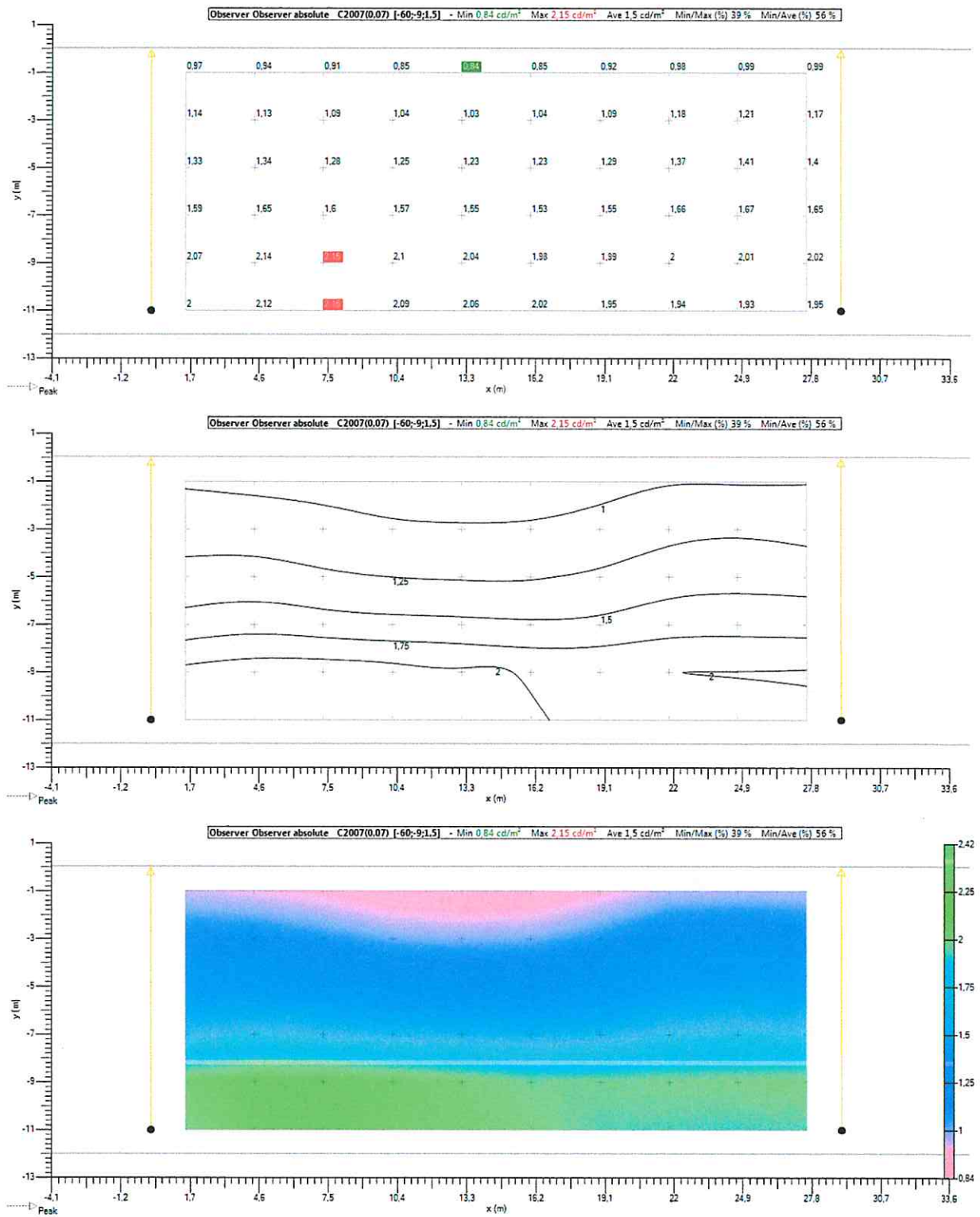
	Color	N°	Position			Luminaire							Target		
			X [m]	Y [m]	Z [m]	Name	Current [mA]	Az [°]	Incl [°]	Rot [°]	Flux [klm]	MF	X [m]	Y [m]	Z [m]
<input checked="" type="checkbox"/>		1	-29,00	-11,00	10,60	TECEO GEN2 2 72 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5117 467062	-	0,0	0,0	0,0	22,557	0,800	-29,00	-11,00	0,00
<input checked="" type="checkbox"/>		2	0,00	-11,00	10,60	TECEO GEN2 2 72 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5117 467062	-	0,0	0,0	0,0	22,557	0,800	0,00	-11,00	0,00
<input checked="" type="checkbox"/>		3	29,00	-11,00	10,60	TECEO GEN2 2 72 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5117 467062	-	0,0	0,0	0,0	22,557	0,800	29,00	-11,00	0,00
<input checked="" type="checkbox"/>		4	58,00	-11,00	10,60	TECEO GEN2 2 72 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5117 467062	-	0,0	0,0	0,0	22,557	0,800	58,00	-11,00	0,00
<input checked="" type="checkbox"/>		5	87,00	-11,00	10,60	TECEO GEN2 2 72 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5117 467062	-	0,0	0,0	0,0	22,557	0,800	87,00	-11,00	0,00
<input checked="" type="checkbox"/>		6	116,00	-11,00	10,60	TECEO GEN2 2 72 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5117 467062	-	0,0	0,0	0,0	22,557	0,800	116,00	-11,00	0,00
<input checked="" type="checkbox"/>		7	145,00	-11,00	10,60	TECEO GEN2 2 72 LEDs 700mA WW730 Piano, Vetro extra chiaro, Liscio 5117 467062	-	0,0	0,0	0,0	22,557	0,800	145,00	-11,00	0,00

6.3. Luminaire groups

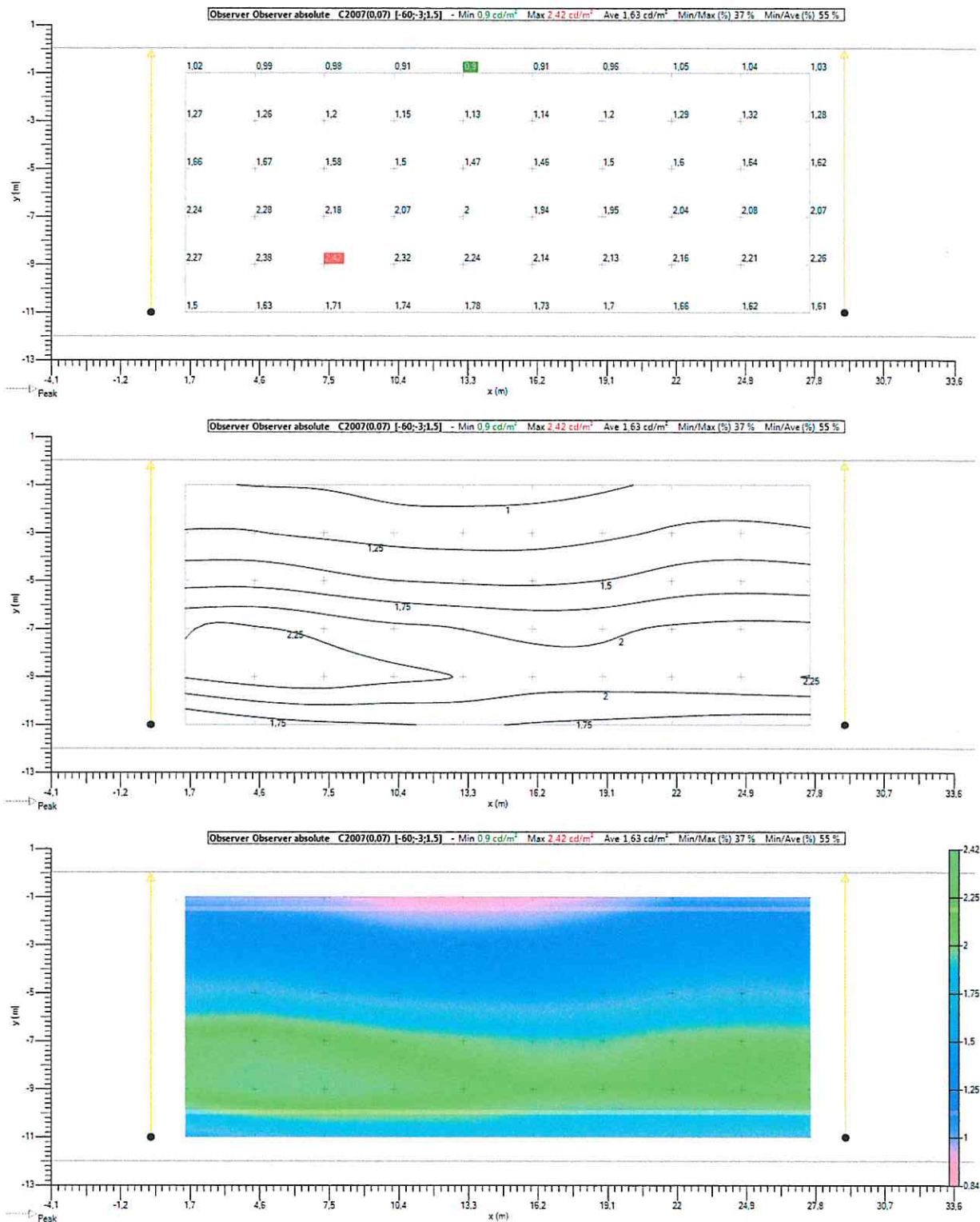
Linear																
	Color	N°	Position			Luminaire					Dimension			Rotation		
			X [m]	Y [m]	Z [m]	Name	Az [°]	Incl [°]	Rot [°]	Dim [%]	Count	Spacing [m]	Size [m]	X [°]	Y [°]	Z [°]
<input checked="" type="checkbox"/>		1	-29,00	-11,00	10,60	Fixture right	0,0	0,0	0,0	100	7	29,00	174,00	0,0	0,0	0,0

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

Multi-lanes (LU) - Absolute 1

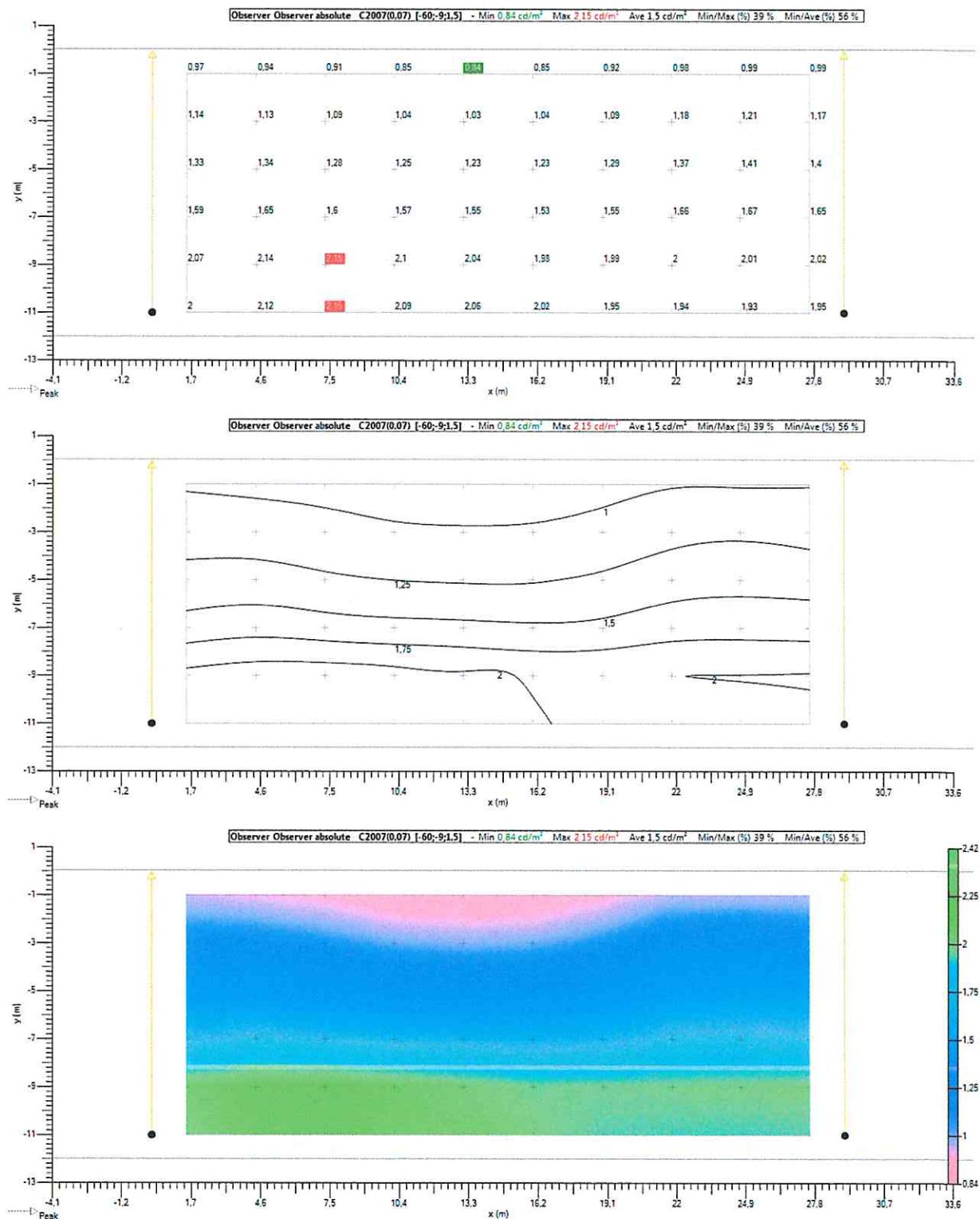


Multi-lanes (LU) - Absolute 2

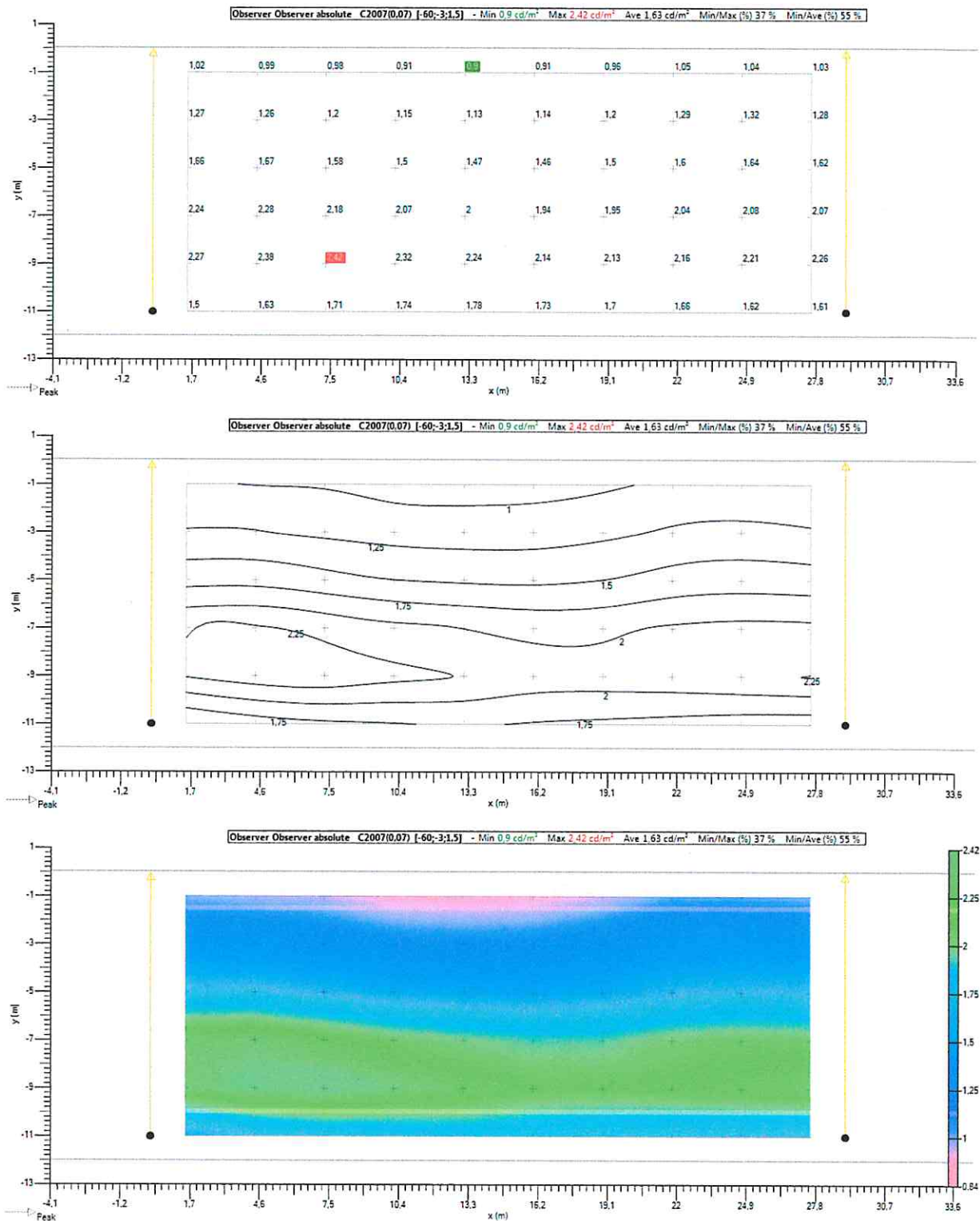


6.5. Luminance - Multi-lanes (LU) - C2007

Multi-lanes (LU) - Optional - Absolute 1

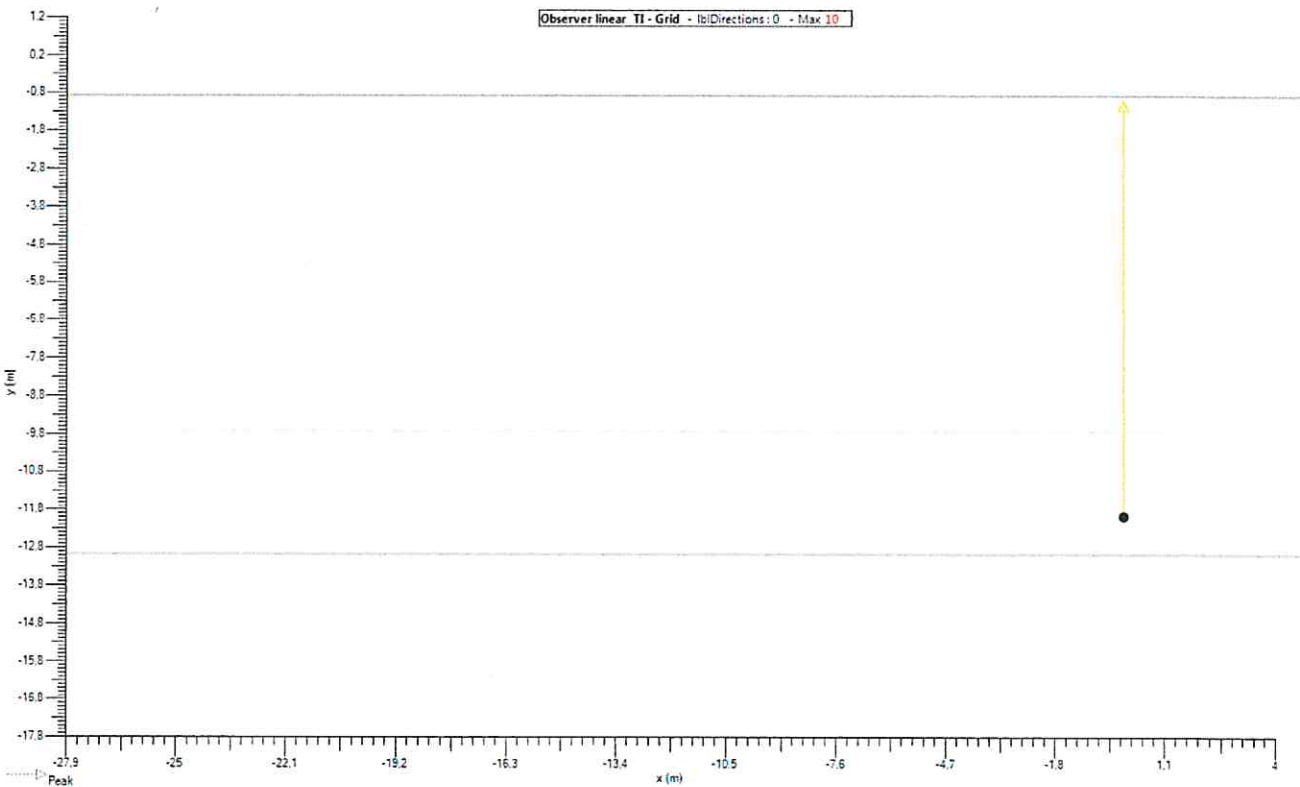


Multi-lanes (LU) - Optional - Absolute 2

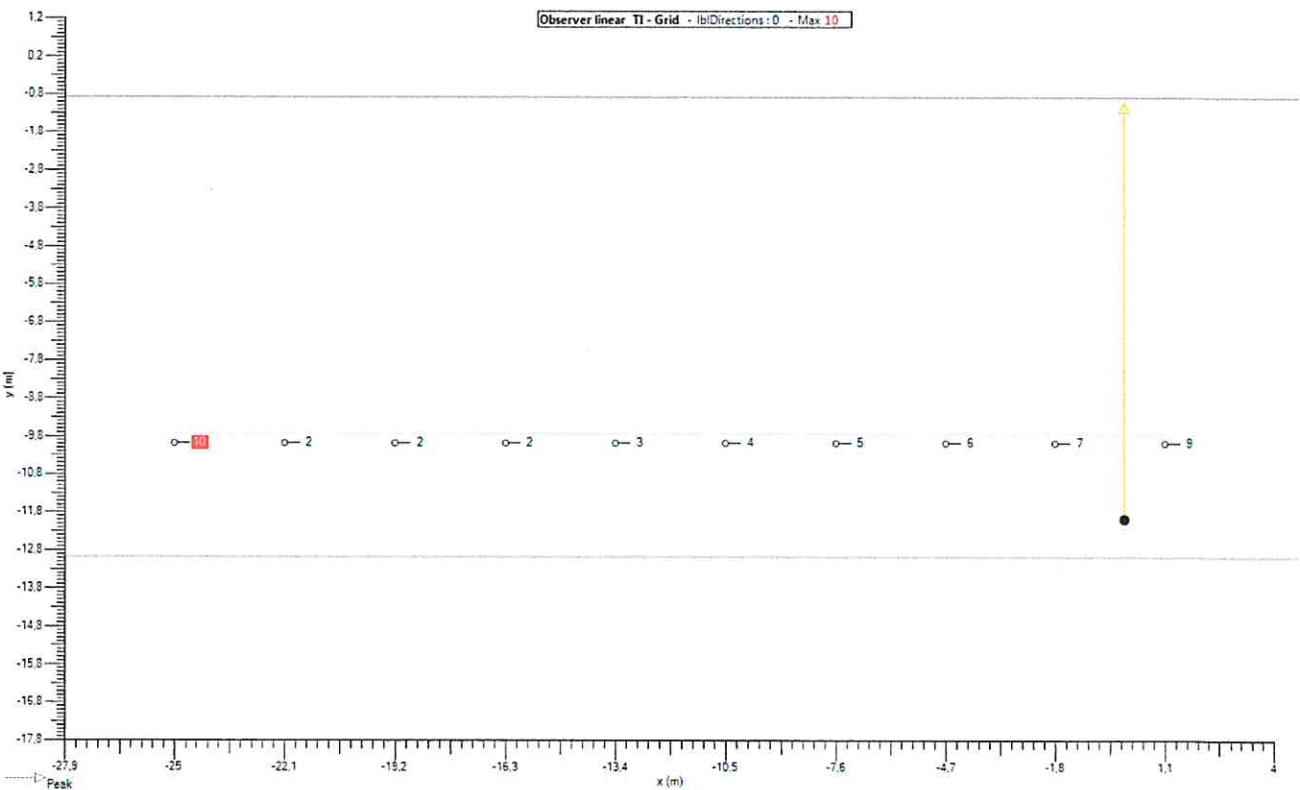


6.6. Multi-lanes (TI 1) - TI - Grid

Implantation

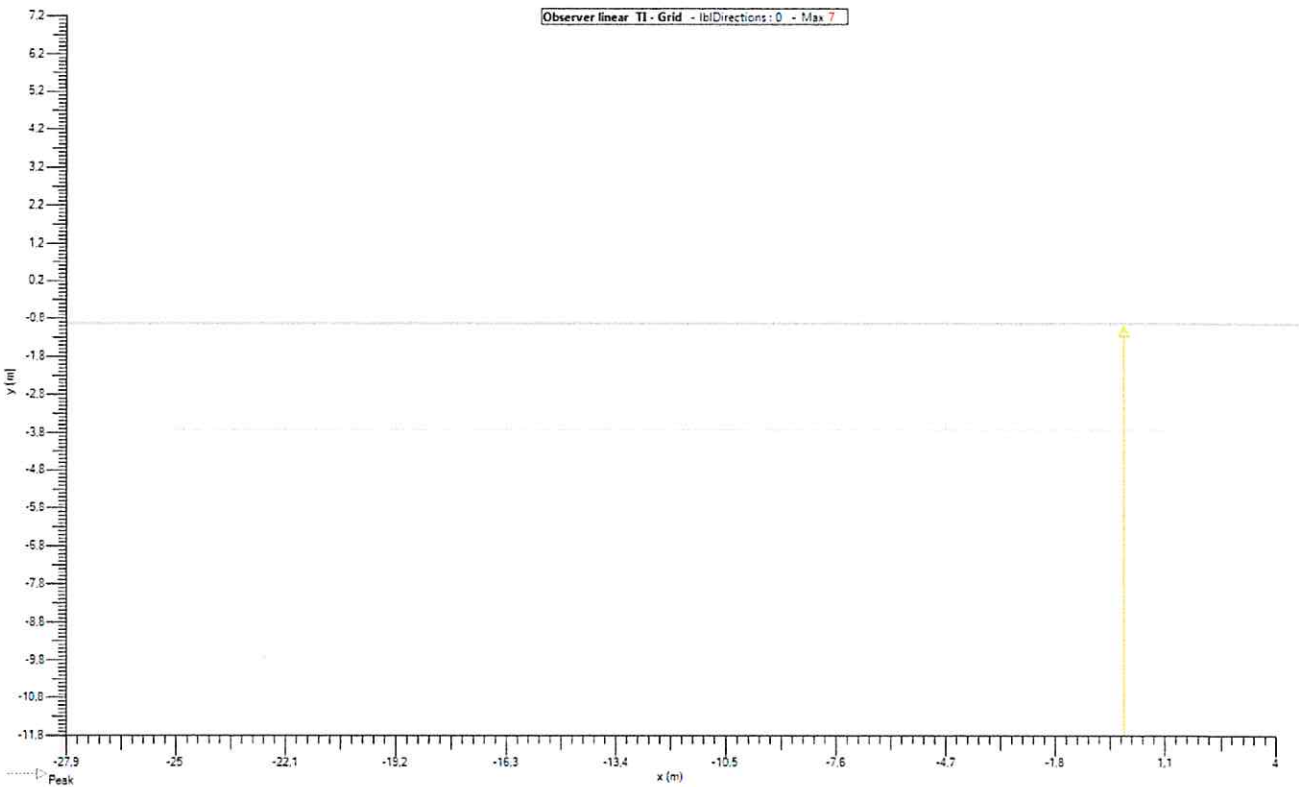


Values

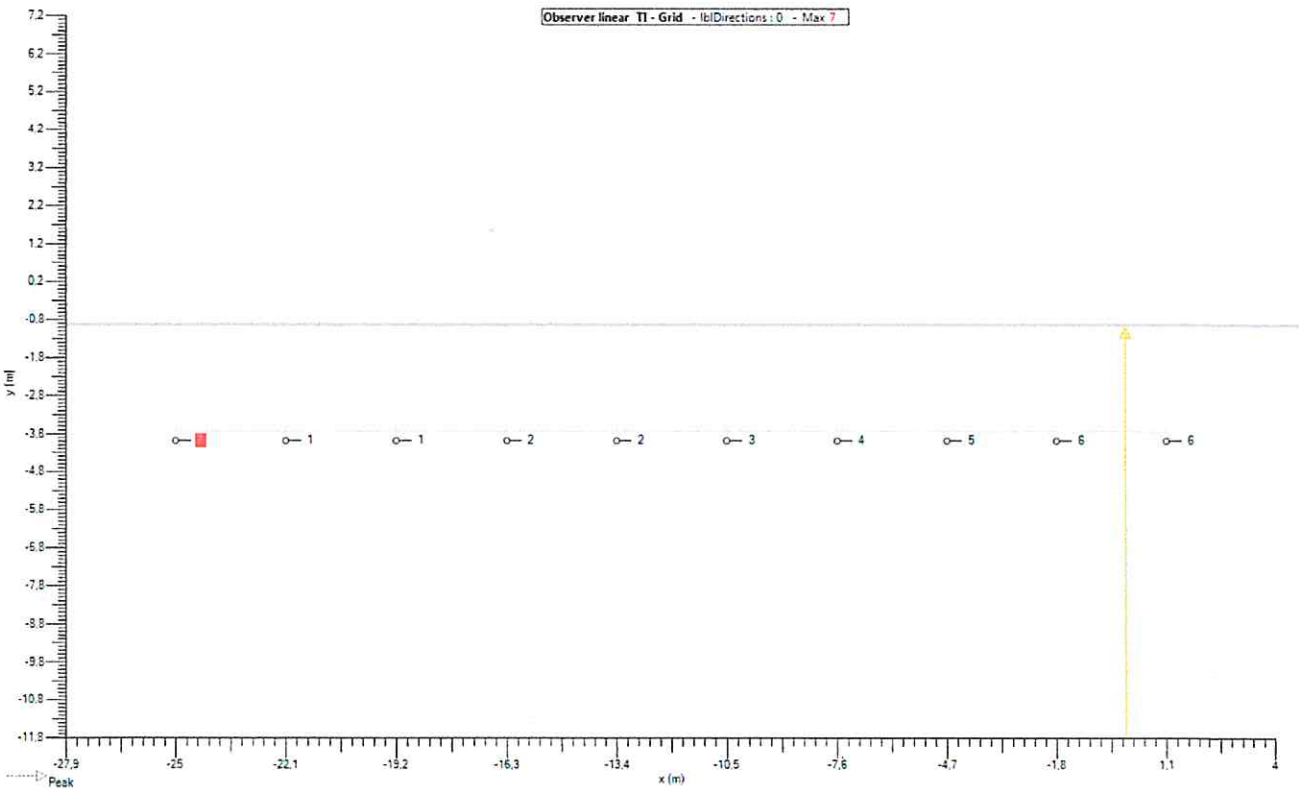


6.7. Multi-lanes (TI 2) - TI - Grid

Implantation



Values



7. Grids

7.1. Multi-lanes (LU)

General

Type

Enabled ☒

Colour

Geometry

Origin	X 1,45 m	Y -11,00 m	Z 0,00 m
Rotation	X 0,0 °	Y 0,0 °	Z 0,0 °
Dimension	Count X 10	Count Y 6	
	Spacing X 2,90 m	Spacing Y 2,00 m	
	Size X 26,10 m	Size Y 10,00 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 -25,03 m Y -9,00 m Z 1,50 m

Rotation X 0,0° Y 0,0° Z 0,0°

Dimension Count 10 Spacing 2,90 m Size 26,10 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 -25,03 m Y -3,00 m Z 1,50 m

Rotation X 0,0° Y 0,0° Z 0,0°

Dimension Count 10 Spacing 2,90 m Size 26,10 m