

Thorneyholme Hall

Date: 18-10-2025
Customer: PWA Planning Ltd
Designer: Neil Martin

The nominal values shown in this report are the result of precision calculations, based upon precisely positioned luminaires in a fixed relationship to each other and to the area under examination. In practice the values may vary due to tolerances on luminaires, luminaire positioning, reflection properties and electrical supply.

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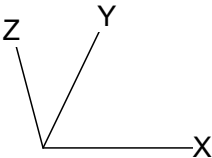
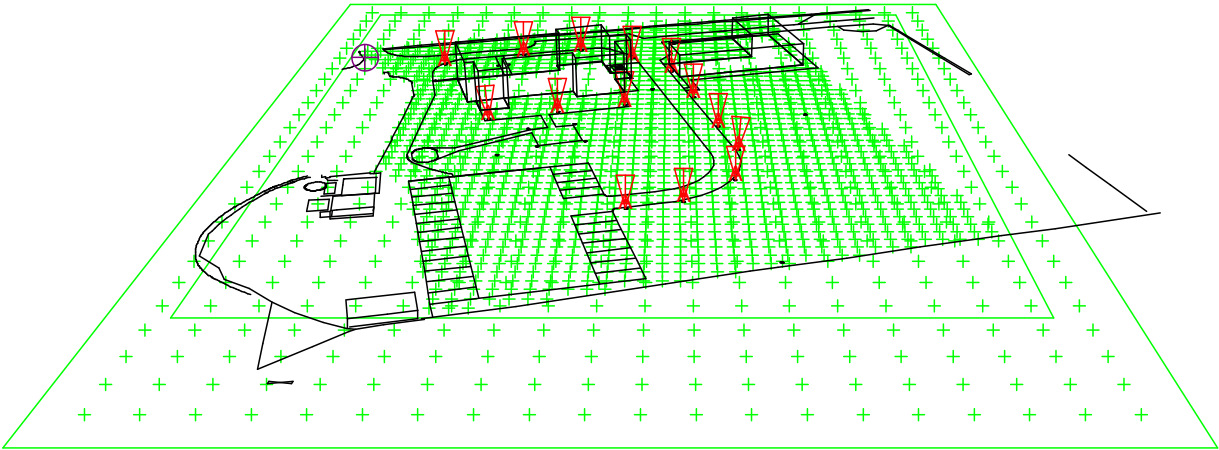
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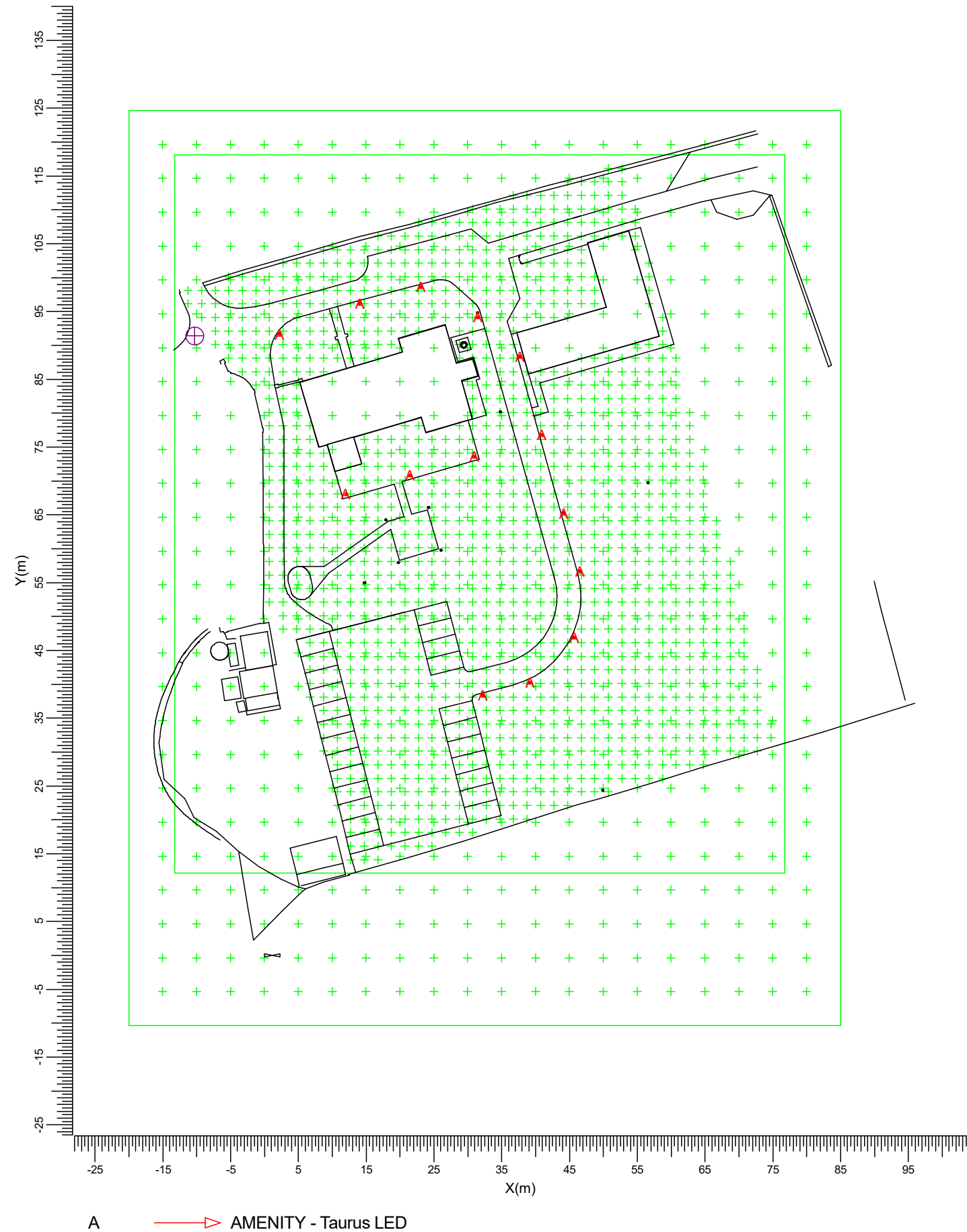
1. Project Description

1.1 3-D Project Overview

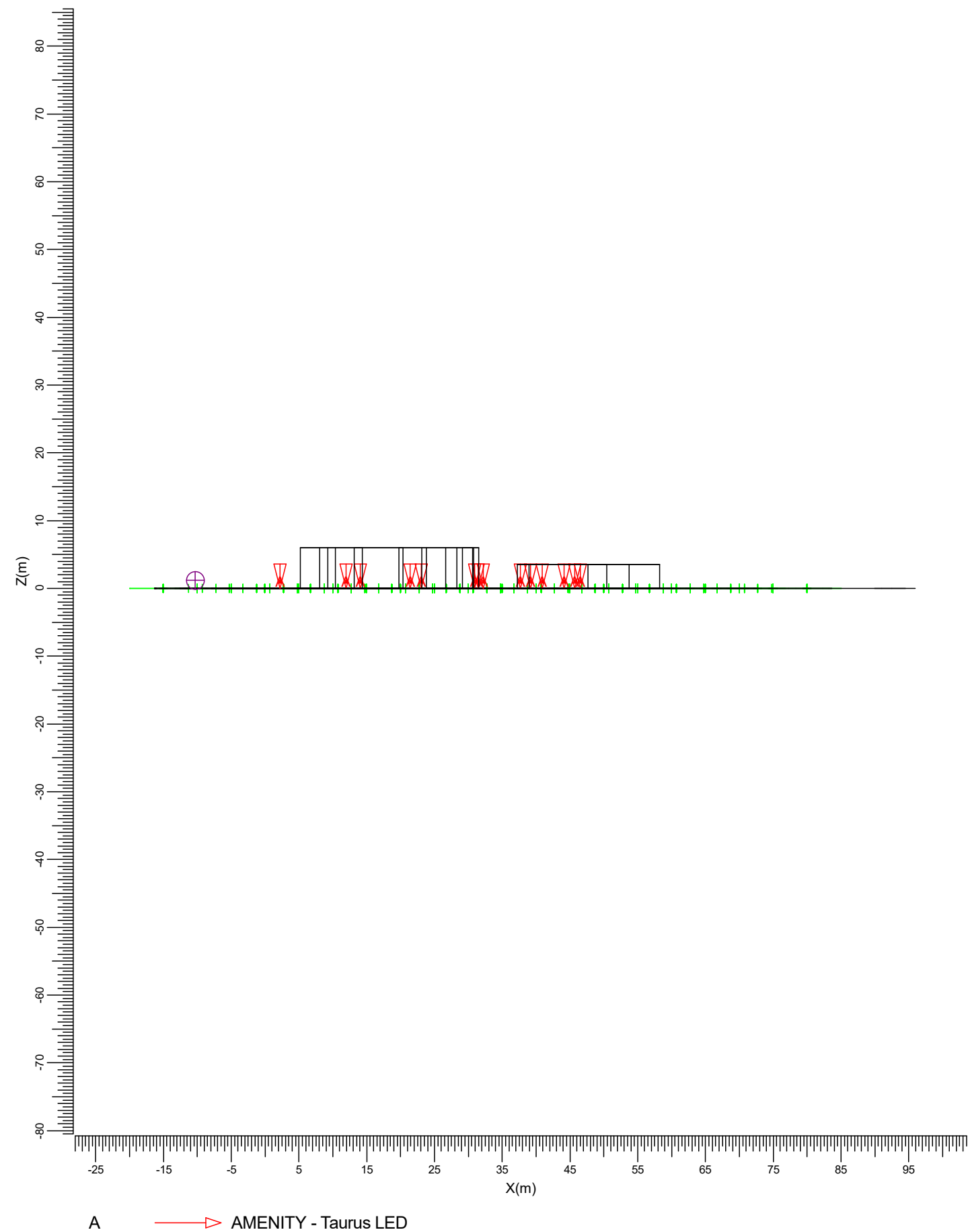


A  AMENITY - Taurus LED

1.2 Top Project Overview

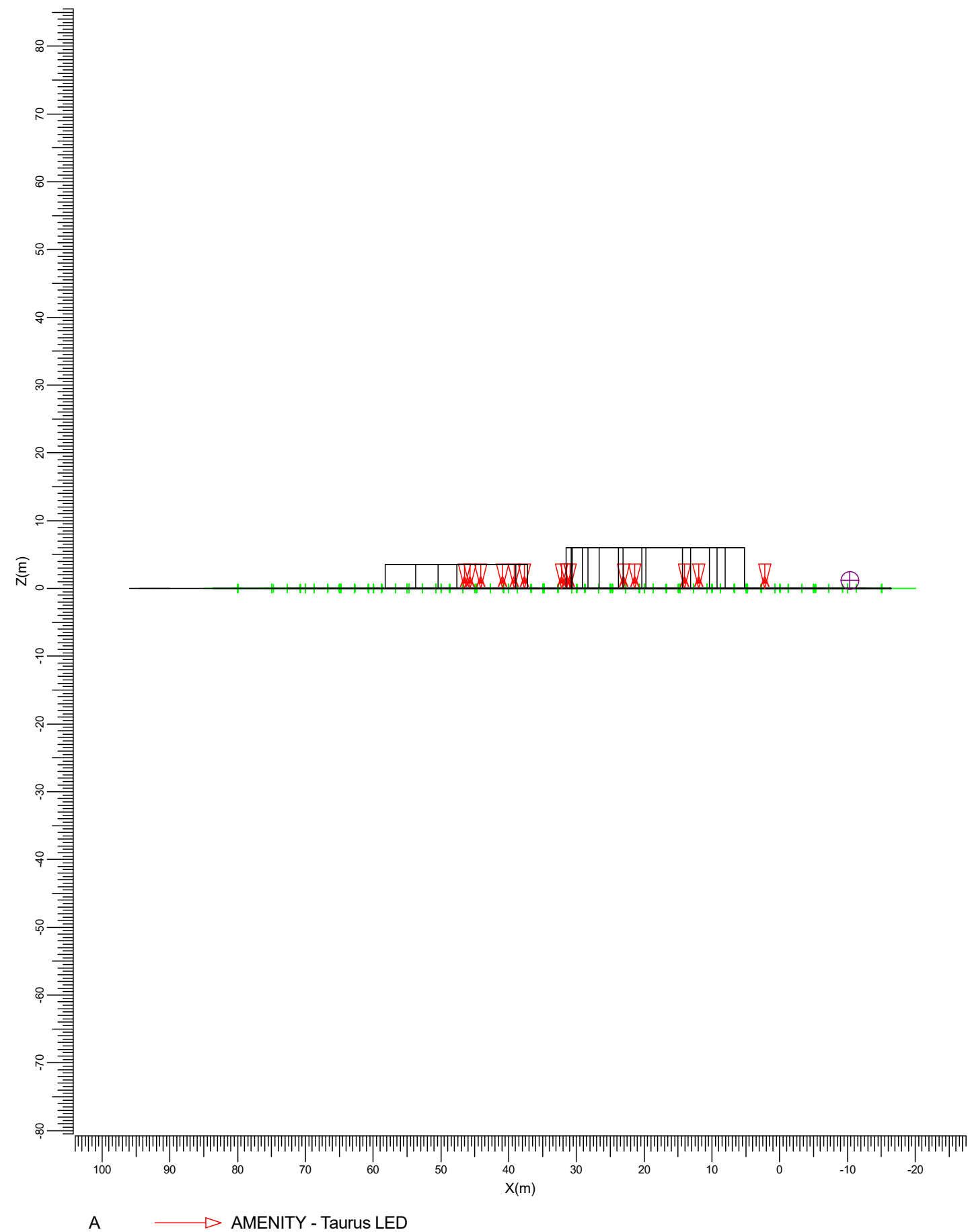


1.3 Front Project Overview



Scale
1:750

1.4 Back Project Overview



Scale
1:750

2. Summary

2.1 General Information

The overall maintenance factor used for this project is 0.90.

2.2 Observer Information

Code	Observer	Position		
		X (m)	Y (m)	Z (m)
Aa	driveway entrance	-10.30	91.46	1.20

2.3 Obstacle Information

Obstacle	Transparency (%)	Position		
		X (m)	Y (m)	Z (m)
House	0	0.00	0.00	0.00
School	0	0.00	0.00	0.00

2.4 Project Luminaires

Code	Qty	Luminaire Type	Lamp Type	Power (W)	Flux (lm)
A	14	AMENITY - Taurus LED	1 * LED 0	24.0	1 * 2416

The total installed power: 0.34 (kWatt)

2.5 Calculation Results

(II)luminance Calculations:

Calculation	Type	Unit	Ave	Min	Max	Min/Ave	Min/Max
Free Grid	Surface Illuminance	lux	4.69	0.00	253.51	0.00	0.00
Overspill1	Surface Illuminance	lux	1.51	0.00	143.91	0.00	0.00

Obtrusive Light Calculations:

Observer Code	Luminaire Code	Position			Aiming Angles			Maximum Intensity (cd)
		X (m)	Y (m)	Z (m)	Rot.	Tilt90	Tilt0	
Aa	A	39.14	40.31	1.00	0.00	0.00	0.00	84

The upward light ratio (ULR) is 0.17.

3. Calculation Results

3.1 Free Grid: Textual Table

Grid
Calculation

: Site at Z = -0.00 m
: Surface Illuminance (lux)

X (m)	-13.28	-11.28	-9.28	-7.28	-5.28	-3.28	-1.28	0.72	2.72	4.72	6.72	8.72	10.72
Y (m)													
118.12													
116.12													
114.12													
112.12													
110.12													
108.12													
106.12													
104.12												0.2	0.2
102.12									0.1	0.2	0.2	0.3	0.4
100.12					0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.5	1.1
98.12		0.0	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.5	0.5	0.9	2.9
96.12		0.0	0.1	0.1	0.2	0.3	0.7	1.3	1.6	1.1	0.8	1.1	4.9
94.12			0.1	0.1	0.2	0.6	1.9	7.8	13.0	4.0	1.2	1.0	2.7
92.12				0.1	0.3	0.8	3.8	71.7	204.6	13.3	1.8	0.8	1.1
90.12				0.1	0.2	0.7	2.9	25.5	67.7	8.1	1.5	0.6	0.5
88.12					0.2	0.4	1.1	2.9	4.0	2.0	0.8	0.4	0.3
86.12						0.2	0.4	0.7	0.8	0.6	0.4	0.3	
84.12							0.2	0.3	0.3	0.3			
82.12								0.1	0.1	0.1			
80.12								0.1	0.1	0.1			
78.12								0.1	0.1	0.1	0.0		
76.12								0.1	0.1	0.1	0.1		
74.12								0.1	0.1	0.1	0.2	0.3	
72.12								0.1	0.1	0.2	0.4	0.9	
70.12								0.1	0.1	0.3	0.7	2.7	15.2
68.12								0.1	0.1	0.3	0.9	5.0	112.5
66.12								0.1	0.1	0.3	0.7	2.9	18.6
64.12								0.1	0.1	0.2	0.4	1.0	2.2
62.12								0.1	0.1	0.1	0.2	0.4	0.6
60.12								0.0	0.1	0.1	0.1	0.2	0.2
58.12								0.0	0.1	0.1	0.1	0.1	0.1
56.12								0.0	0.0	0.1	0.1	0.1	0.1
54.12								0.0	0.0	0.0	0.0	0.1	0.1
52.12								0.0	0.0	0.0	0.0	0.0	0.0
50.12									0.0	0.0	0.0	0.0	0.0
48.12									0.0	0.0	0.0	0.0	0.0

Continue >

Average
4.69

Minimum
0.00

Maximum
253.51

Min/Ave
0.00

Min/Max
0.00

Project maintenance factor
0.90

< Continue

Continue >

Grid : Site at Z = -0.00 m
Calculation : Surface Illuminance (lux)

X (m)	-13.28	-11.28	-9.28	-7.28	-5.28	-3.28	-1.28	0.72	2.72	4.72	6.72	8.72	10.72
Y (m)													
46.12											0.0	0.0	0.0
44.12											0.0	0.0	0.0
42.12											0.0	0.0	0.0
40.12											0.0	0.0	0.0
38.12											0.0	0.0	0.0
36.12												0.0	0.0
34.12												0.0	0.0
32.12												0.0	0.0
30.12												0.0	0.0
28.12													0.0
26.12													0.0
24.12													0.0
22.12													0.0
20.12													
18.12													
16.12													
14.12													
12.12													

< Continue

Continue >

Grid : Site at Z = -0.00 m
 Calculation : Surface Illuminance (lux)

X (m)	12.72	14.72	16.72	18.72	20.72	22.72	24.72	26.72	28.72	30.72	32.72	34.72	36.72
Y (m)													
118.12													
116.12													
114.12													
112.12													0.0
110.12										0.1	0.1	0.1	0.0
108.12						0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1
106.12			0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0.1
104.12	0.3	0.3	0.4	0.5	0.7	0.9	0.8	0.5	0.3	0.3	0.2	0.2	0.1
102.12	0.6	0.8	0.8	1.0	2.2	4.2	2.8	1.2	0.6	0.4	0.3	0.3	0.2
100.12	2.3	2.7	1.8	2.1	9.7	77.0	21.3	2.9	1.1	0.9	0.7	0.5	0.3
98.12	18.8	32.8	5.6	2.9	17.3	213.6	51.5	3.8	2.0	2.7	2.3	1.2	0.5
96.12	107.9	212.2	11.3	2.6	4.8	13.8	7.4	2.8	5.2	28.8	18.5	3.2	1.0
94.12	14.2	22.8	4.8	1.6	1.5	1.9	1.8	2.1	10.0	216.7	104.5	5.8	1.6
92.12	2.0	2.3	1.4	0.8	0.7	0.7			4.5	23.5	17.2	4.2	3.5
90.12	0.6	0.7	0.5	0.4					1.4	2.6	3.0	5.2	31.6
88.12	0.3	0.3	0.3						0.5	0.9	1.7	7.6	158.9
86.12											1.1	3.4	16.1
84.12										0.3	0.7	1.2	2.2
82.12										0.4	0.5	0.7	1.0
80.12										0.6	0.7	0.8	1.3
78.12					0.4	0.3			1.2	1.8	1.5	1.2	2.1
76.12		0.2	0.5	0.7	1.0	1.0	0.9	1.5	4.8	14.1	6.9	2.2	2.5
74.12		0.3	0.9	2.1	4.9	4.1	1.9	2.4	19.0	253.5	46.2	3.5	1.9
72.12	0.0	1.5	1.7	7.0	83.9	48.7	4.6	2.5	10.8	77.4	19.7	2.8	1.3
70.12	22.0	4.7	2.3	9.0	132.0	78.7	5.3	1.8	2.5	4.2	3.0	1.4	0.8
68.12	203.2	10.5	2.2	3.2	9.1	7.3	2.3	1.1	0.9	1.0	0.9	0.7	0.6
66.12	30.9	5.1	1.5	1.2	1.5	1.4	0.9	0.6	0.5	0.5	0.5	0.4	0.5
64.12	2.6	1.5	0.8	0.6	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.5
62.12	0.7	0.6	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.4
60.12	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
58.12	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3
56.12	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3
54.12	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3
52.12	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3
50.12	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3
48.12	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5

Average
4.69

Minimum
0.00

Maximum
253.51

Min/Ave
0.00

Min/Max
0.00

Project maintenance factor
0.90

< Continue

Continue >

Grid : Site at Z = -0.00 m

Calculation : Surface Illuminance (lux)

X (m)	12.72	14.72	16.72	18.72	20.72	22.72	24.72	26.72	28.72	30.72	32.72	34.72	36.72
Y (m)													
46.12	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8
44.12	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.5	0.7	1.0	1.2	1.9
42.12	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.5	1.1	2.5	3.4	2.9	7.2
40.12	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.7	2.7	18.5	47.9	8.5	16.0
38.12	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.8	3.9	76.4	238.2	15.6	6.7
36.12	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.6	2.1	10.2	19.7	5.4	2.4
34.12	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.4	0.8	1.7	2.1	1.5	1.0
32.12	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.5	0.6	0.6	0.5
30.12	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.2
28.12	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
26.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
24.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
22.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
16.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0						
14.12	0.0	0.0	0.0										
12.12													

< Continue

Continue >

Grid : Site at Z = -0.00 m
 Calculation : Surface Illuminance (lux)

X (m)	38.72	40.72	42.72	44.72	46.72	48.72	50.72	52.72	54.72	56.72	58.72	60.72	62.72
Y (m)													
118.12													
116.12							0.0	0.0					
114.12				0.0	0.0	0.0	0.0	0.0					
112.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
110.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
108.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
106.12	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0<	0.0<				
104.12	0.1	0.1	0.0	0.0	0.0				0.0<				
102.12	0.1	0.1	0.0	0.0	0.0					0.0<			
100.12	0.2	0.1	0.1	0.0	0.0	0.0				0.0<			
98.12	0.2	0.1	0.1	0.0	0.0	0.0				0.0<			
96.12	0.3	0.1	0.1	0.1	0.0	0.0				0.0<			
94.12	0.3	0.2	0.1	0.1							0.0<		
92.12											0.0		
90.12									0.0	0.0	0.0		
88.12					0.0<	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
86.12	15.9	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	
84.12	2.2	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0	
82.12	1.3	1.0	0.8	0.5	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0	
80.12	2.8	5.1	3.0	1.1	0.5	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0
78.12	12.8	105.0	21.6	2.5	0.7	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0
76.12	19.6	197.8	37.7	3.0	0.8	0.3	0.2	0.1	0.1	0.1	0.0	0.0	0.0
74.12	4.5	11.1	5.7	1.7	0.7	0.4	0.2	0.1	0.1	0.1	0.1	0.0	0.0
72.12	1.4	1.8	1.6	1.1	0.6	0.4	0.2	0.2	0.1	0.1	0.1	0.0	0.0
70.12	0.9	1.1	1.5	1.5	1.0	0.6	0.3	0.2	0.1	0.1	0.1	0.0	0.0
68.12	0.9	1.9	5.4	7.4	2.9	1.0	0.4	0.2	0.1	0.1	0.1	0.1	0.0
66.12	1.0	4.0	61.3	131.0	10.5	1.6	0.6	0.3	0.2	0.1	0.1	0.1	0.0
64.12	1.0	3.8	49.6	113.4	9.8	1.7	0.7	0.3	0.2	0.1	0.1	0.1	0.0
62.12	0.7	1.7	4.8	6.9	3.4	1.5	0.7	0.4	0.2	0.1	0.1	0.1	0.1
60.12	0.5	1.0	1.9	3.6	4.8	2.6	1.1	0.5	0.3	0.2	0.1	0.1	0.1
58.12	0.5	0.9	2.6	17.1	74.9	11.6	1.9	0.6	0.3	0.2	0.1	0.1	0.1
56.12	0.4	0.8	3.0	41.3	225.3	22.5	2.3	0.7	0.3	0.2	0.1	0.1	0.1
54.12	0.4	0.7	1.8	6.6	14.7	5.3	1.5	0.6	0.3	0.2	0.1	0.1	0.1
52.12	0.4	0.7	1.2	2.2	2.6	1.8	1.0	0.5	0.3	0.2	0.1	0.1	0.1
50.12	0.5	0.9	2.1	5.1	5.2	2.2	0.9	0.5	0.3	0.2	0.1	0.1	0.1
48.12	0.7	1.3	5.4	69.4	70.1	6.0	1.2	0.5	0.2	0.2	0.1	0.1	0.1

Average
4.69

Minimum
0.00

Maximum
253.51

Min/Ave
0.00

Min/Max
0.00

Project maintenance factor
0.90

< Continue

Continue >

Grid : Site at Z = -0.00 m

Calculation : Surface Illuminance (lux)

X (m)	38.72	40.72	42.72	44.72	46.72	48.72	50.72	52.72	54.72	56.72	58.72	60.72	62.72
Y (m)													
46.12	1.1	1.7	6.3	105.0	107.0	6.9	1.3	0.5	0.2	0.1	0.1	0.1	0.0
44.12	3.3	2.9	3.2	7.6	7.9	2.6	0.9	0.4	0.2	0.1	0.1	0.1	0.0
42.12	44.3	17.2	3.3	1.9	1.5	1.0	0.5	0.3	0.2	0.1	0.1	0.1	0.0
40.12	224.5	68.4	4.2	1.2	0.7	0.5	0.3	0.2	0.1	0.1	0.1	0.0	0.0
38.12	21.6	11.1	2.4	0.9	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.0	0.0
36.12	2.5	1.9	1.0	0.5	0.3	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0
34.12	0.8	0.7	0.5	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
32.12	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0
30.12	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
28.12	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26.12	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0		
24.12	0.1	0.1	0.0	0.0	0.0	0.0	0.0						
22.12	0.0	0.0	0.0	0.0									
20.12	0.0												
18.12													
16.12													
14.12													
12.12													

< Continue

Continue >

Grid : Site at Z = -0.00 m

Calculation : Surface Illuminance (lux)

X (m)	64.72	66.72	68.72	70.72	72.72	74.72	76.72
Y (m)							
118.12							
116.12							
114.12							
112.12							
110.12							
108.12							
106.12							
104.12							
102.12							
100.12							
98.12							
96.12							
94.12							
92.12							
90.12							
88.12							
86.12							
84.12							
82.12							
80.12							
78.12							
76.12							
74.12							
72.12	0.0						
70.12	0.0						
68.12	0.0						
66.12	0.0						
64.12	0.0	0.0					
62.12	0.0	0.0					
60.12	0.0	0.0					
58.12	0.0	0.0	0.0				
56.12	0.0	0.0	0.0				
54.12	0.0	0.0	0.0				
52.12	0.0	0.0	0.0				
50.12	0.0	0.0	0.0	0.0			
48.12	0.0	0.0	0.0	0.0			

Average	Minimum	Maximum	Min/Ave	Min/Max	Project maintenance factor
4.69	0.00	253.51	0.00	0.00	0.90

< Continue

Grid
Calculation

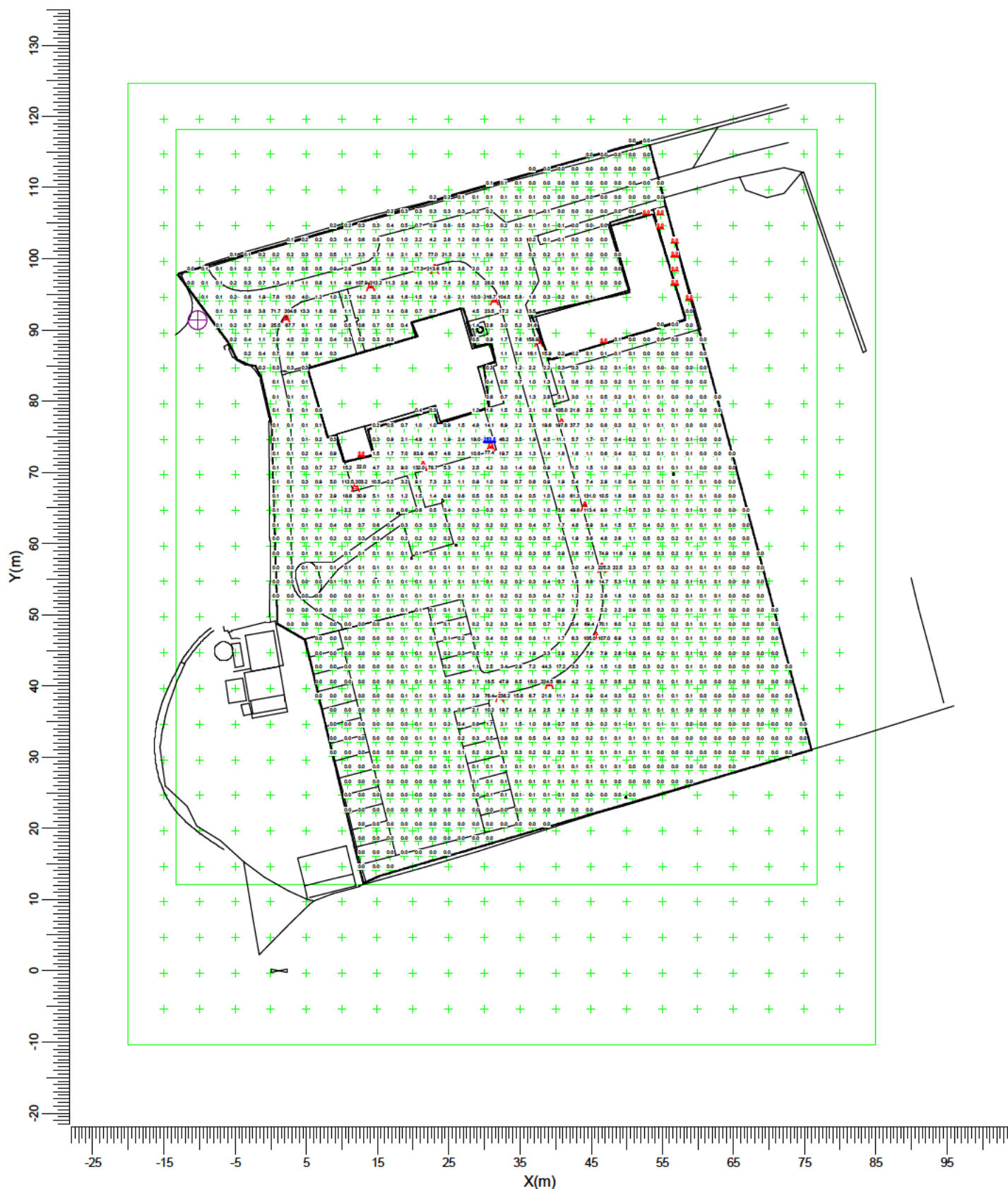
: Site at Z = -0.00 m
: Surface Illuminance (lux)

X (m)	64.72	66.72	68.72	70.72	72.72	74.72	76.72
Y (m)							
46.12	0.0	0.0	0.0	0.0			
44.12	0.0	0.0	0.0	0.0			
42.12	0.0	0.0	0.0	0.0	0.0		
40.12	0.0	0.0	0.0	0.0	0.0		
38.12	0.0	0.0	0.0	0.0	0.0		
36.12	0.0	0.0	0.0	0.0	0.0		
34.12	0.0	0.0	0.0	0.0	0.0	0.0	
32.12	0.0	0.0	0.0	0.0	0.0	0.0	
30.12	0.0	0.0	0.0	0.0	0.0		
28.12	0.0						
26.12							
24.12							
22.12							
20.12							
18.12							
16.12							
14.12							
12.12							

Average	Minimum	Maximum	Min/Ave	Min/Max	Project maintenance factor
4.69	0.00	253.51	0.00	0.00	0.90

3.2 Free Grid: Graphical Table

Grid : Site at Z = -0.00 m
 Calculation : Surface Illuminance (lux)



Average
4.69

Minimum
0.00

Maximum
253.51

Min/Ave
0.00

Min/Max
0.00

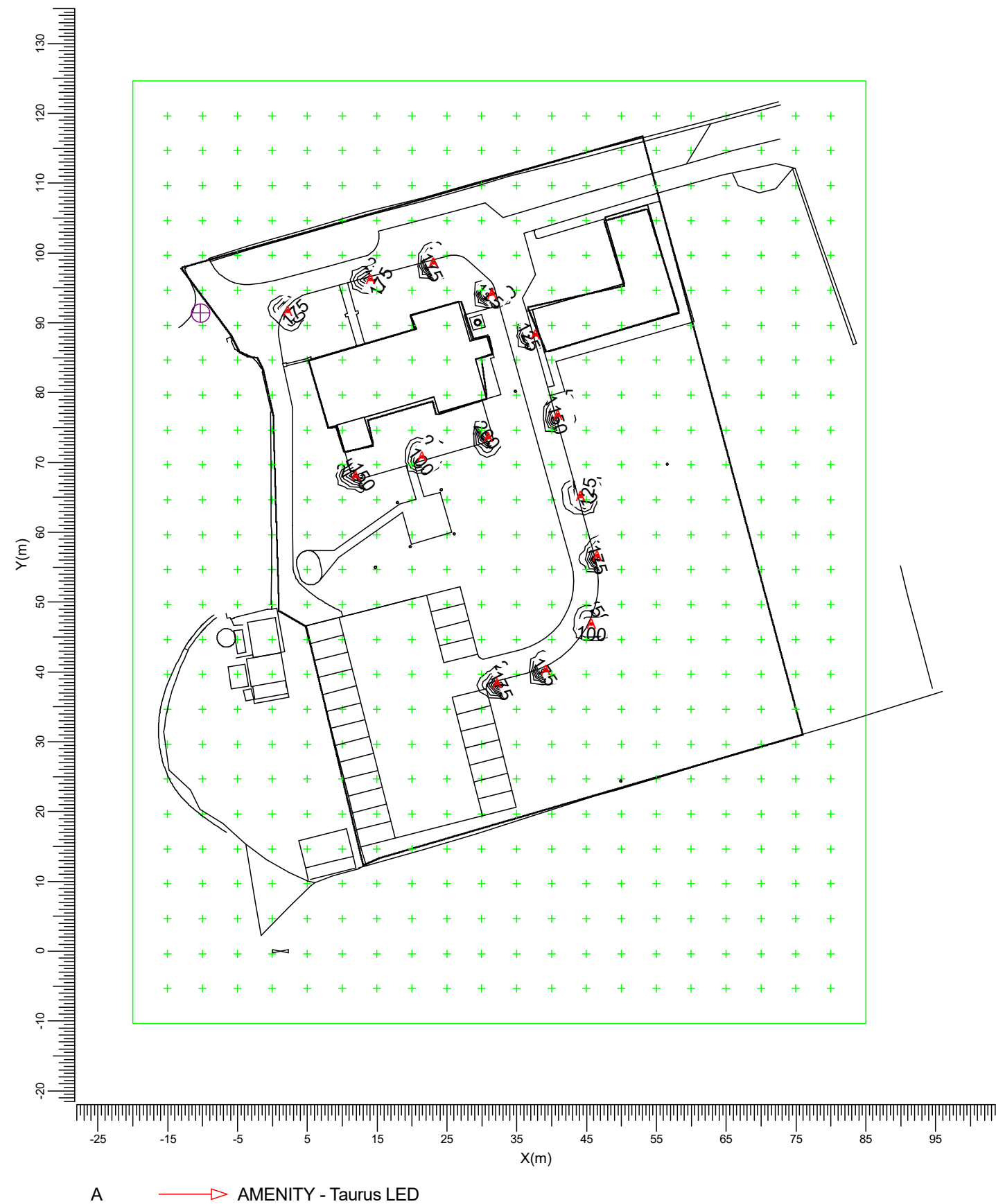
Project maintenance factor
0.90

Scale
1:750

3.3 Free Grid: Iso Contour

Grid
Calculation

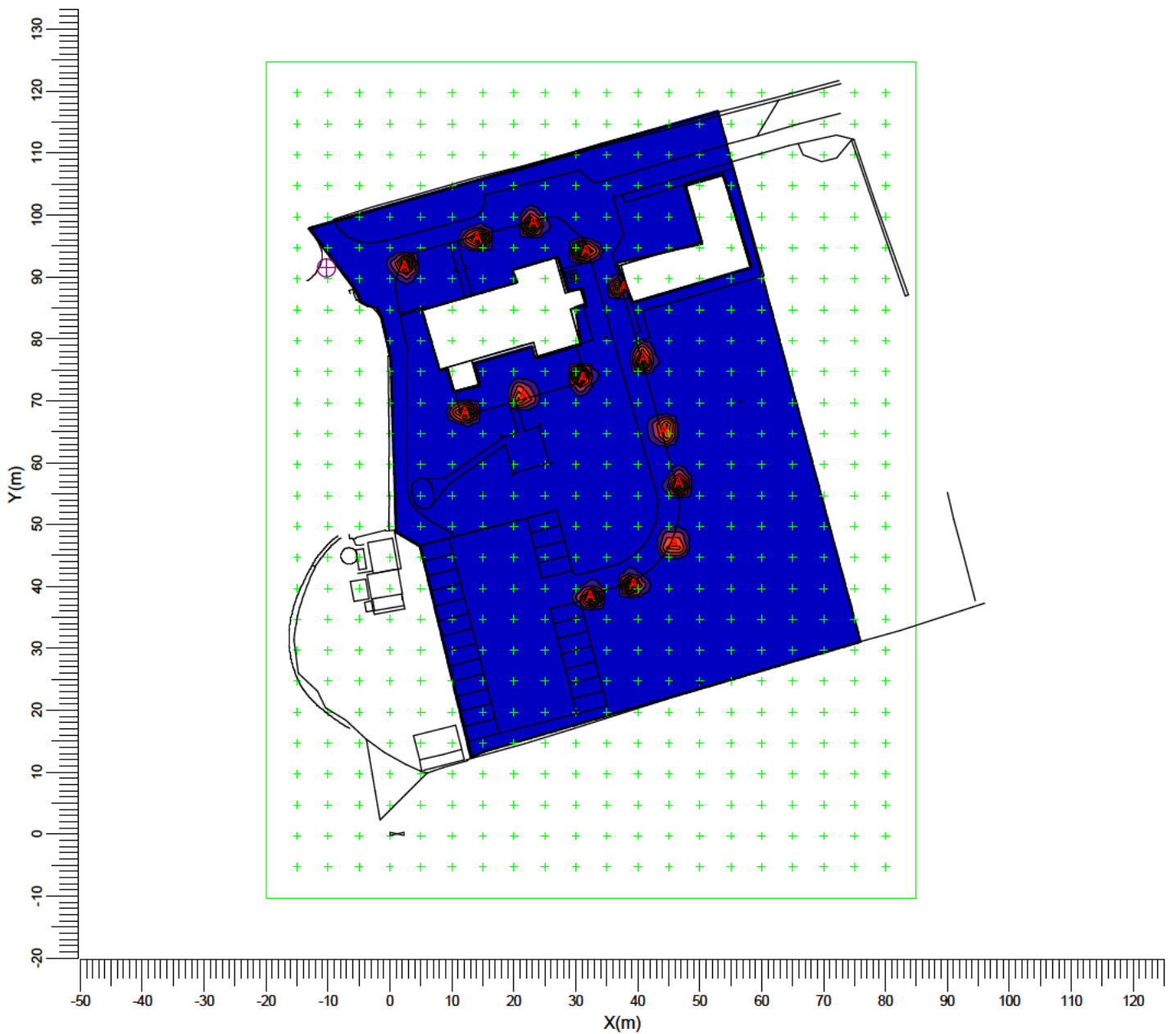
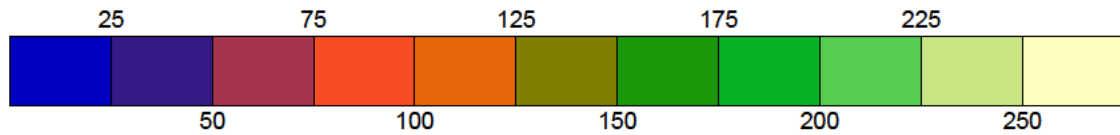
: Site at Z = -0.00 m
: Surface Illuminance (lux)



Average	Minimum	Maximum	Min/Ave	Min/Max	Project maintenance factor	Scale
4.69	0.00	253.51	0.00	0.00	0.90	1:750

3.4 Free Grid: Filled Iso Contour

Grid : Site at Z = -0.00 m
Calculation : Surface Illuminance (lux)

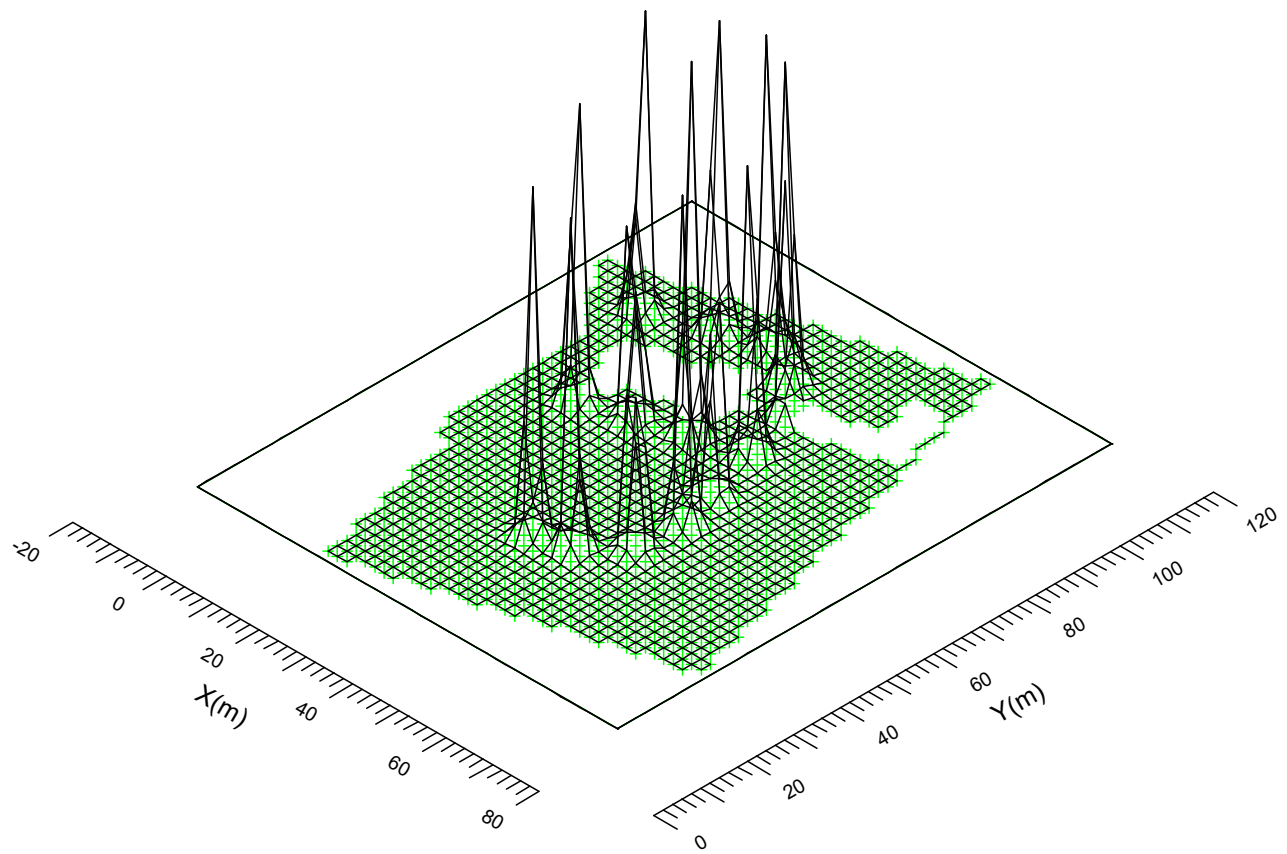


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Average	Minimum	Maximum	Min/Ave	Min/Max	Project maintenance factor	Scale
4.69	0.00	253.51	0.00	0.00	0.90	1:1000

3.5 Free Grid: Mountain Plot

Grid : Site at Z = -0.00 m
Calculation : Surface Illuminance (lux)



Average	Minimum	Maximum	Min/Ave	Min/Max	Project maintenance factor
4.69	0.00	253.51	0.00	0.00	0.90

3.6 Overspill1: Textual Table

Grid : Overspill1 at Z = -0.00 m
Calculation : Surface Illuminance (lux)

X (m)	-20.02	-15.02	-10.02	-5.02	-0.02	4.98	9.98	14.98	19.98	24.98	29.98	34.98	39.98
Y (m)													
124.65													
119.65		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114.65		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109.65		0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0
104.65		0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.5	0.6	0.2	0.1	0.1
99.65		0.0	0.0	0.1	0.2	0.3	1.0	4.0	5.7	23.7	1.1	0.6	0.1
94.65		0.0	0.1	0.2	3.0	2.3	2.0	46.9	1.7	2.3	74.1	4.2	0.2
89.65		0.0	0.1	0.3	7.1	4.6	0.5	0.5	0.2	0.0<	1.6	7.6	0.0<
84.65		0.0	0.0	0.1	0.3	0.3	0.0<	0.0<	0.0<	0.0<	0.2	1.7	0.3
79.65		0.0	0.0	0.0	0.1	0.1	0.0<	0.0<	0.0<	0.0<	0.0<	0.9	7.3
74.65		0.0	0.0	0.0	0.1	0.1	0.0<	0.3	2.4	1.5	90.8	2.8	18.1
69.65		0.0	0.0	0.0	0.1	0.3	12.3	4.9	40.5	3.7	2.5	1.1	1.0
64.65		0.0	0.0	0.0	0.1	0.2	2.6	1.8	0.7	0.5	0.3	0.4	2.2
59.65		0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.7
54.65		0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.6
49.65		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.8
44.65		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.5	1.0	2.3
39.65		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	12.1	9.0	135.1
34.65		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	1.9	1.9	0.9
29.65		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2
24.65		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
19.65		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.65		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.65		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.65		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-0.35		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-5.35		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

-10.35

Continue >

Average	Minimum	Maximum	Min/Ave	Min/Max	Project maintenance factor
1.51	0.00	143.91	0.00	0.00	0.90

< Continue

Grid : Overspill1 at Z = -0.00 m
 Calculation : Surface Illuminance (lux)

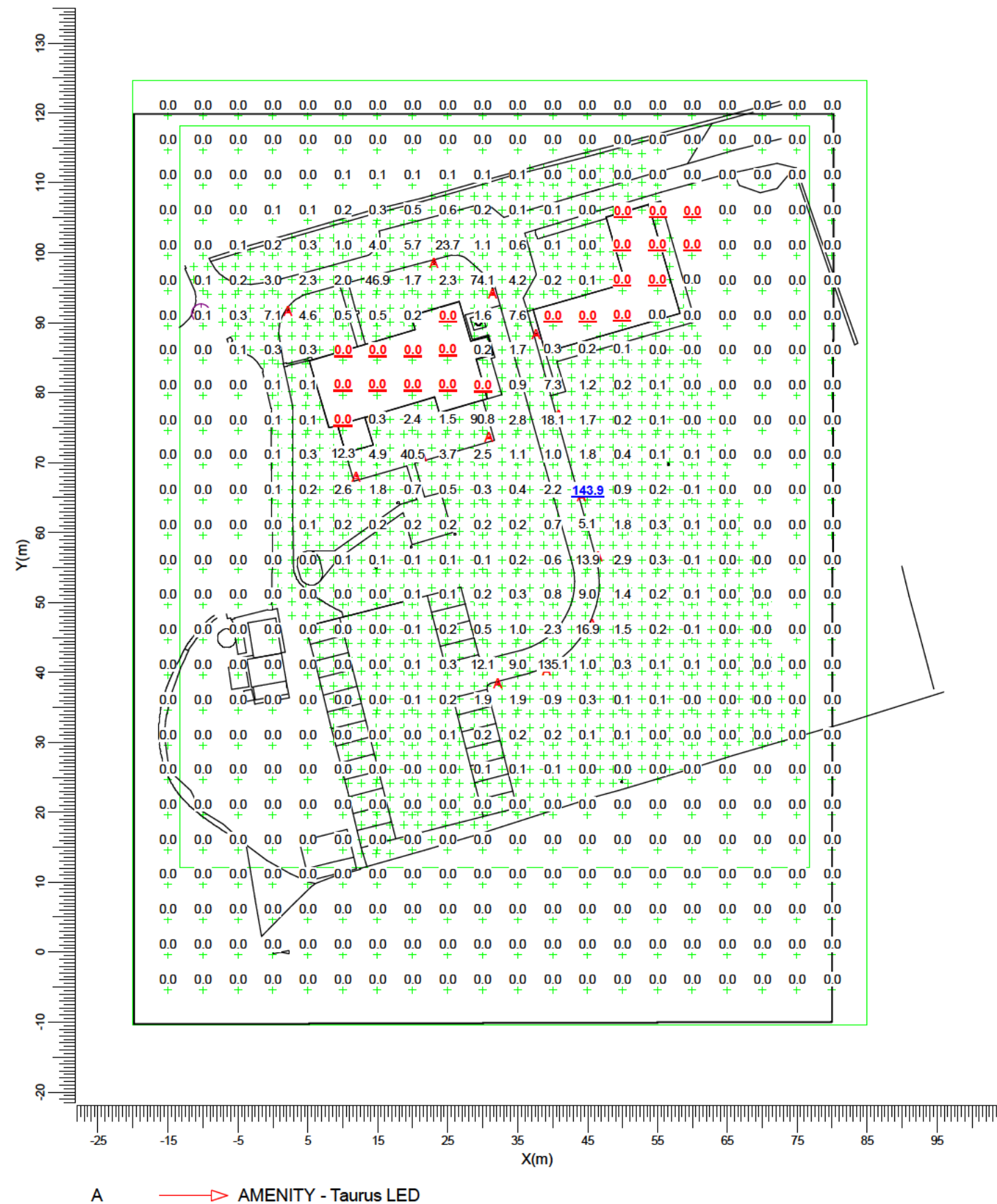
X (m)	44.98	49.98	54.98	59.98	64.98	69.98	74.98	79.98	84.98
Y (m)									
124.65									
119.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
114.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
109.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
104.65	0.0	0.0<	0.0<	0.0<	0.0	0.0	0.0	0.0	
99.65	0.0	0.0<	0.0<	0.0<	0.0	0.0	0.0	0.0	
94.65	0.1	0.0<	0.0<	0.0	0.0	0.0	0.0	0.0	
89.65	0.0<	0.0<	0.0	0.0	0.0	0.0	0.0	0.0	
84.65	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
79.65	1.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	
74.65	1.7	0.2	0.1	0.0	0.0	0.0	0.0	0.0	
69.65	1.8	0.4	0.1	0.1	0.0	0.0	0.0	0.0	
64.65	143.9>	0.9	0.2	0.1	0.0	0.0	0.0	0.0	
59.65	5.1	1.8	0.3	0.1	0.0	0.0	0.0	0.0	
54.65	13.9	2.9	0.3	0.1	0.0	0.0	0.0	0.0	
49.65	9.0	1.4	0.2	0.1	0.0	0.0	0.0	0.0	
44.65	16.9	1.5	0.2	0.1	0.0	0.0	0.0	0.0	
39.65	1.0	0.3	0.1	0.1	0.0	0.0	0.0	0.0	
34.65	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	
29.65	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
24.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4.65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
-0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
-5.35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
-10.35									

Average	Minimum	Maximum	Min/Ave	Min/Max	Project maintenance factor
1.51	0.00	143.91	0.00	0.00	0.90

3.7 Overspill1: Graphical Table

Grid : Overspill1 at Z = -0.00 m

Calculation : Surface Illuminance (lux)

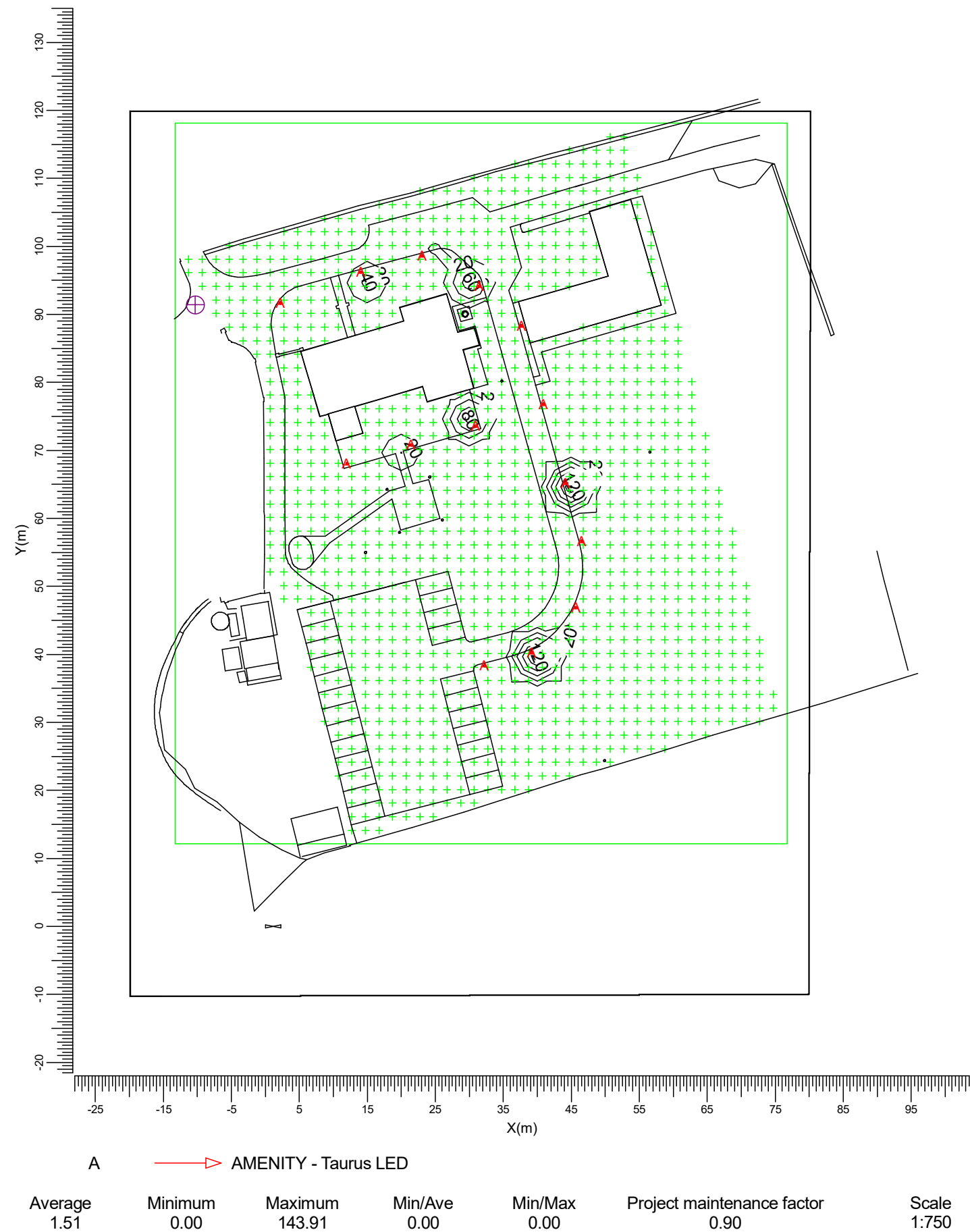


Average	Minimum	Maximum	Min/Ave	Min/Max	Project maintenance factor	Scale
1.51	0.00	143.91	0.00	0.00	0.90	1:750

3.8 Overspill1: Iso Contour

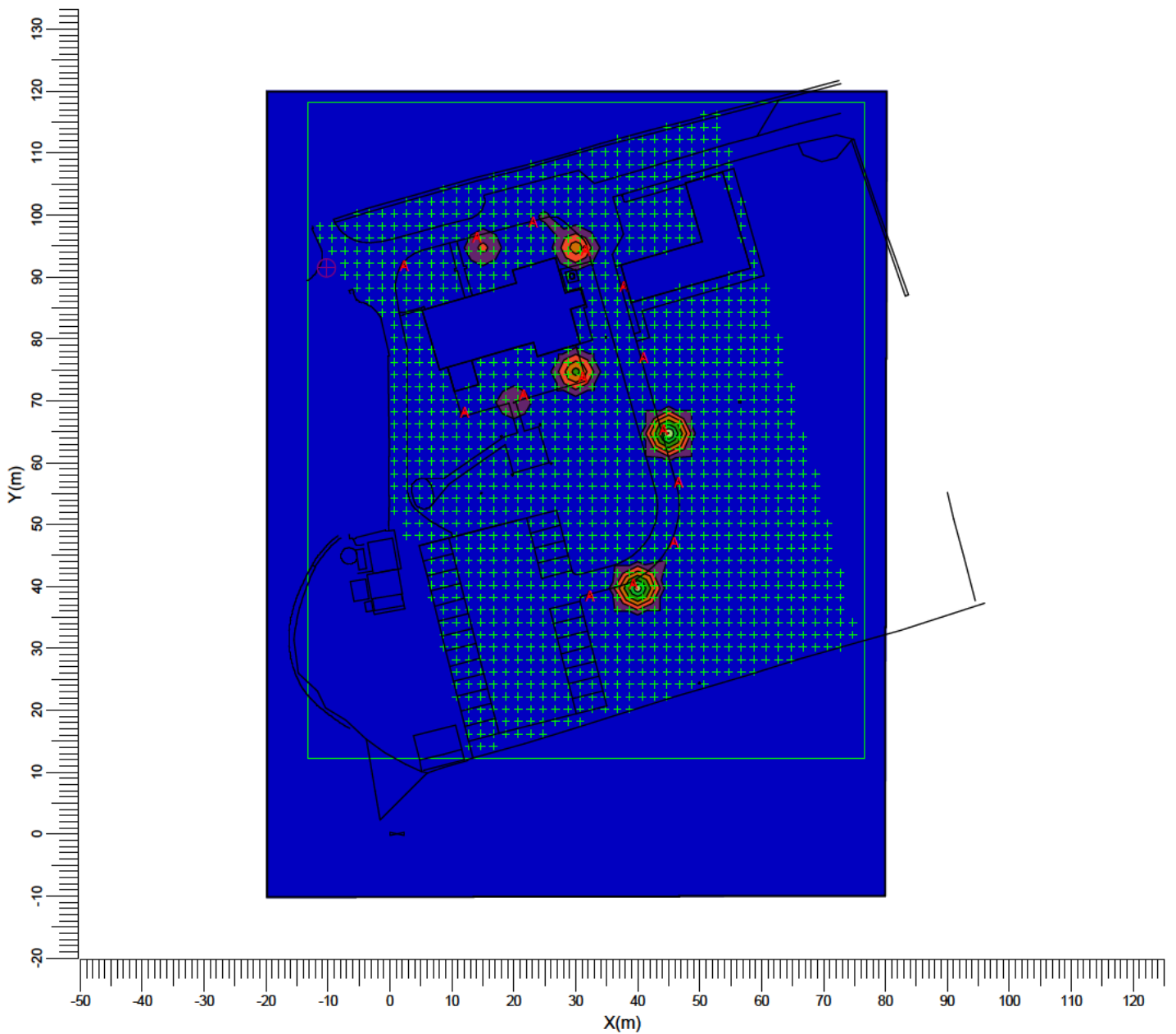
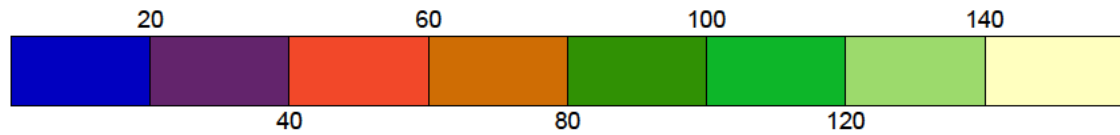
Grid
Calculation

: Overspill1 at Z = -0.00 m
: Surface Illuminance (lux)



3.9 Overspill1: Filled Iso Contour

Grid : Overspill1 at Z = -0.00 m
Calculation : Surface Illuminance (lux)

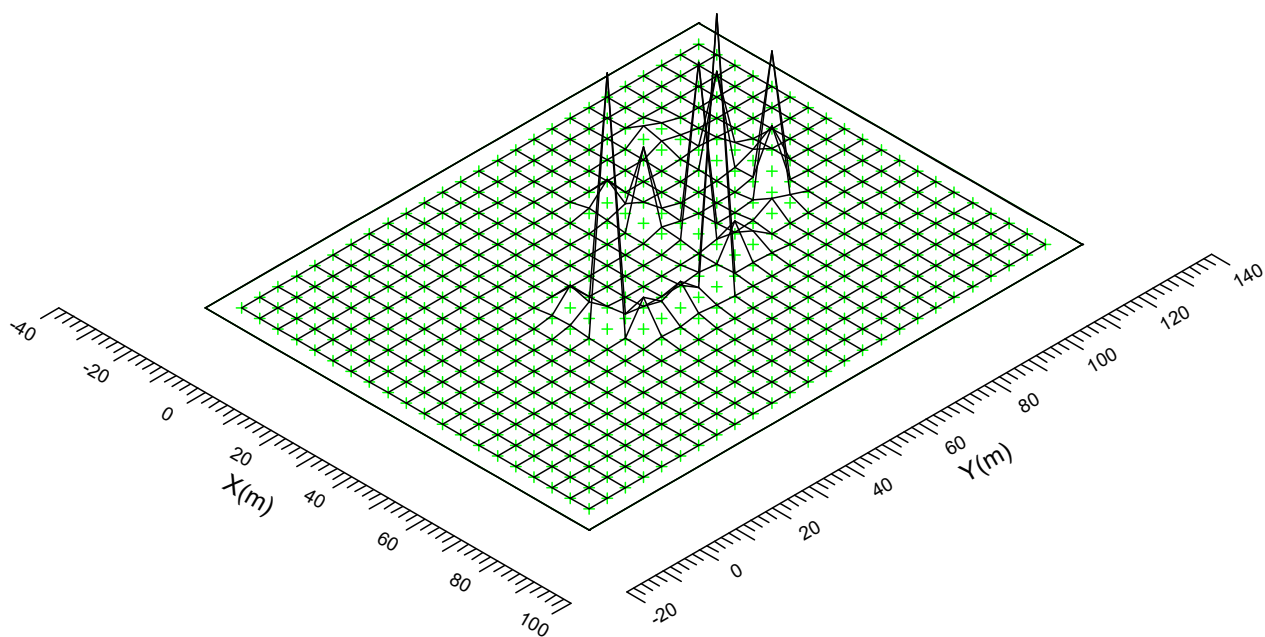


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Average	Minimum	Maximum	Min/Ave	Min/Max	Project maintenance factor	Scale
1.51	0.00	143.91	0.00	0.00	0.90	1:1000

3.10 Overspill1: Mountain Plot

Grid : Overspill1 at Z = -0.00 m
Calculation : Surface Illuminance (lux)



Average	Minimum	Maximum	Min/Ave	Min/Max	Project maintenance factor
1.51	0.00	143.91	0.00	0.00	0.90

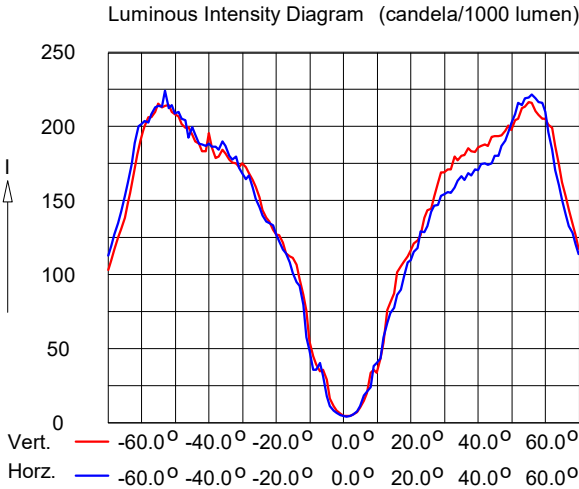
4. Luminaire Details

4.1 Project Luminaires

AMENITY - Taurus LED 1xLED 0/840/4000K

Light output ratios	
DLOR	: 0.83
ULOR	: 0.17
TLOR	: 1.00
Lamp flux	: 2416 lm
Luminaire wattage	: 24.0 W
Measurement code	: ATALEDB/10

Note: Luminaire data not from database.



5. Installation Data

5.1 Legends

Project Luminaires:				
Code	Qty	Luminaire Type	Lamp Type	Flux (lm)
A	14	AMENITY - Taurus LED	1 * LED 0	1 * 2416

5.2 Luminaire Positioning and Orientation

Qty and Code	Position			Aiming Points			Aiming Angles			ULR	ULOR_i
	X (m)	Y (m)	Z (m)	X (m)	Y (m)	Z (m)	Rot.	Tilt90	Tilt0		
1 * A	2.19	91.63	1.00	2.19	91.63	0.00	0.0	0.0	0.0	0.17	0.17
1 * A	11.97	68.04	1.00	11.97	68.04	0.00	0.0	0.0	0.0	0.17	0.17
1 * A	14.01	96.23	1.00	14.01	96.23	0.00	0.0	0.0	0.0	0.17	0.17
1 * A	21.43	70.85	1.00	21.43	70.85	0.00	0.0	0.0	0.0	0.17	0.17
1 * A	23.01	98.63	1.00	23.01	98.63	0.00	0.0	0.0	0.0	0.17	0.17
1 * A	30.94	73.62	1.00	30.94	73.62	0.00	0.0	0.0	0.0	0.17	0.17
1 * A	31.43	94.17	1.00	31.43	94.17	0.00	0.0	0.0	0.0	0.17	0.17
1 * A	32.21	38.37	1.00	32.21	38.37	0.00	0.0	0.0	0.0	0.17	0.17
1 * A	37.66	88.34	1.00	37.66	88.34	0.00	0.0	0.0	0.0	0.17	0.17
1 * A	39.14	40.31	1.00	39.14	40.31	0.00	0.0	0.0	0.0	0.17	0.17
1 * A	40.89	76.80	1.00	40.89	76.80	0.00	0.0	0.0	0.0	0.17	0.17
1 * A	44.12	65.20	1.00	44.12	65.20	0.00	0.0	0.0	0.0	0.17	0.17
1 * A	45.73	46.92	1.00	45.73	46.92	0.00	0.0	0.0	0.0	0.17	0.17
1 * A	46.52	56.61	1.00	46.52	56.61	0.00	0.0	0.0	0.0	0.17	0.17

6. Financial Information

6.1 Installation Data

Burning hours/year	0	hr
Amortization period	1.0	yr
Interest rate	0.0	%
kWh price	0.00	€

6.2 Luminaire Information

Project Luminaires	Qty	Prices (€)				Relamping period (yr)
		Lamp	Luminaire	Installation	Maintenance	
AMENITY - Taurus LED	14	0.00	0.00	0.00	0.00	1.00

6.3 Total cost

Costs per year		
Energy	€	0.00
Investment		0.00
Lamps		0.00
Maintenance		0.00

Total	€	0.00
Total investment	€	0.00