

**Ulysse 3**

**BARBATESTI-Iluminat statie Conpet**

## Table of contents

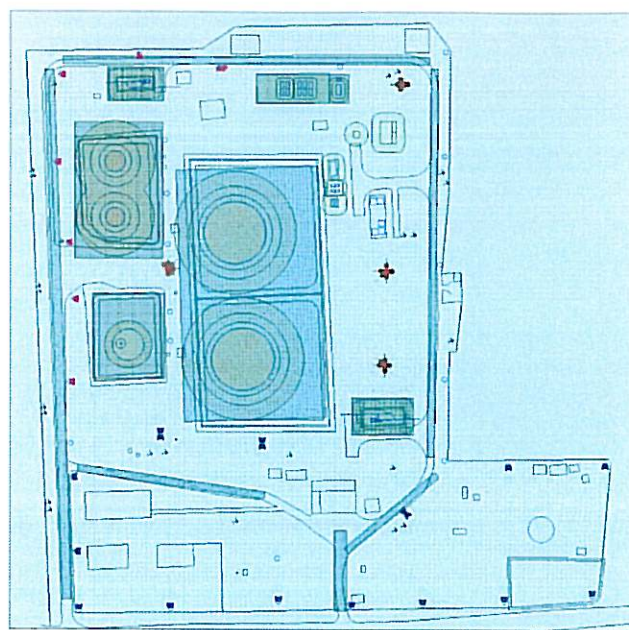
1. Views	1
1.1. Snapshot item	1
2. Fixtures	2
2.1. OMNISTAR 144 LEDs 1000mA NW Flat, Glass Extra Clear, Smooth 2266 347402	2
2.2. OMNISTAR 144 LEDs 1000mA NW Flat, Glass Extra Clear, Smooth 2261 347362	2
2.3. AMPERA MAXI 96 LEDs 700mA NW Flat, Glass Extra Clear, Smooth 5121 357112	3
2.4. AMPERA MIDI 64 LEDs 700mA NW Flat, Glass Extra Clear, Smooth 5119 351452	3
3. Photometric documents	4
3.1. OMNISTAR 144 LEDs 1000mA NW Flat, Glass Extra Clear, Smooth 2266 347402	4
3.2. OMNISTAR 144 LEDs 1000mA NW Flat, Glass Extra Clear, Smooth 2261 347362	5
3.3. AMPERA MAXI 96 LEDs 700mA NW Flat, Glass Extra Clear, Smooth 5121 357112	6
3.4. AMPERA MIDI 64 LEDs 700mA NW Flat, Glass Extra Clear, Smooth 5119 351452	7
4. Results	8
4.1. Grid summary	8
5. Summary power	10
5.1. Varianta 1-Propunere ROS	10
5.2. Varianta 2-cerinte beneficiar	10
6. Day profiles	10
7. Varianta 2-cerinte beneficiar	10
7.1. Matrix description	10
7.2. Luminaire positions	10
7.3. Luminaire groups	11
7.4. Suprafata totala - Normal illuminance	14
7.5. Zona rezervoare - Normal illuminance	15
7.6. Zona rezervoare - 2 - Normal illuminance	16
7.7. Zona rezervoare - 3 - Normal illuminance	17
7.8. Alee (1) - Normal illuminance	18
7.9. Alee (2) - Normal illuminance	19
7.10. Alee (4) - Normal illuminance	20
7.11. Alee (5) - Normal illuminance	21
7.12. Alee (6) - Normal illuminance	22
7.13. Alee (7) - Normal illuminance	23
7.14. Gara lansare - Normal illuminance	24
7.15. Statie pompe - Normal illuminance	25
7.16. Gara primire - Normal illuminance	26
8. Grids	27
8.1. Suprafata totala	27
8.2. Zona rezervoare	27
8.3. Zona rezervoare - 2	28
8.4. Zona rezervoare - 3	28
8.5. Alee (1)	29
8.6. Alee (2)	29
8.7. Alee (4)	30
8.8. Alee (5)	30
8.9. Alee (6)	31
8.10. Alee (7)	31
8.11. Gara lansare	32
8.12. Statie pompe	32
8.13. Gara primire	33





## 1. Views

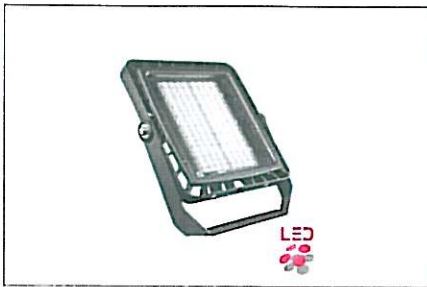
### 1.1. Snapshot item



- - Stalp de beton SS 4 existent
- - Stalp metalic proiectat H= 16 m (maxima maxima)  
PREVEDUT cu platforma fixă pentru proiectare  
CHINGSTAR (SERIEA COMPET)

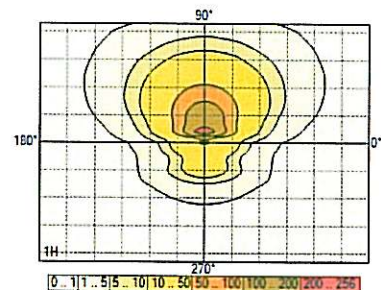
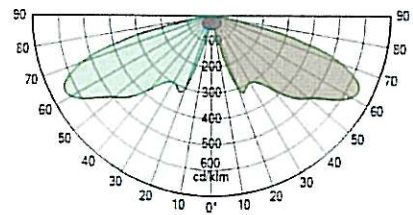
## 2. Fixtures

### 2.1. OMNISTAR 144 LEDs 1000mA NW Flat, Glass Extra Clear, Smooth 2266 347402



Type	OMNISTAR
Reflector	2266
Source	144 LEDs 1000mA NW
Protector	Flat, Glass Extra Clear, Smooth
Setting	
Source flux	50.7 klm
G-Class	2

Luminaire wattage	470.0 W
Source wattage	470.0 W
Efficacy	84 lm/W
Luminaire flux	39.386 klm
MF	0.80
Matrix	347402

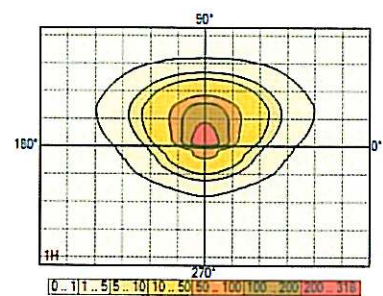
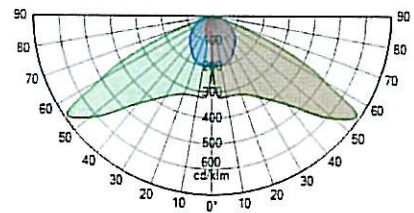


### 2.2. OMNISTAR 144 LEDs 1000mA NW Flat, Glass Extra Clear, Smooth 2261 347362



Type	OMNISTAR
Reflector	2261
Source	144 LEDs 1000mA NW
Protector	Flat, Glass Extra Clear, Smooth
Setting	
Source flux	50.7 klm
G-Class	5

Luminaire wattage	470.0 W
Source wattage	470.0 W
Efficacy	89 lm/W
Luminaire flux	41.776 klm
MF	0.80
Matrix	347362

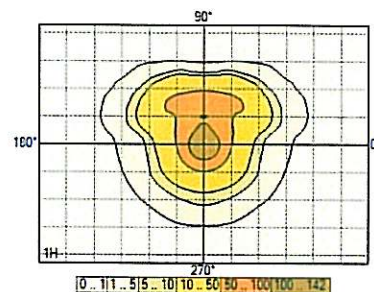
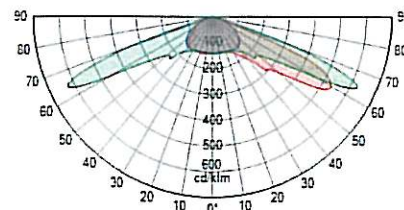


### 2.3. AMPERA MAXI 96 LEDs 700mA NW Flat, Glass Extra Clear, Smooth 5121 357112



Type	AMPERA MAXI
Reflector	5121
Source	96 LEDs 700mA NW
Protector	Flat, Glass Extra Clear, Smooth
Setting	
Source flux	26.7 klm
G-Class	4

Luminaire wattage	213.0 W
Source wattage	213.0 W
Efficacy	100 lm/W
Luminaire flux	21.390 klm
MF	0.80
Matrix	357112

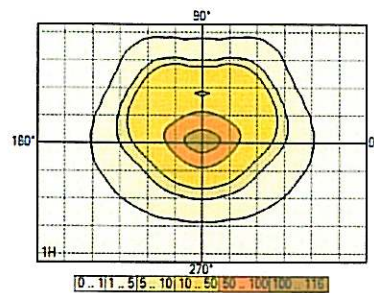
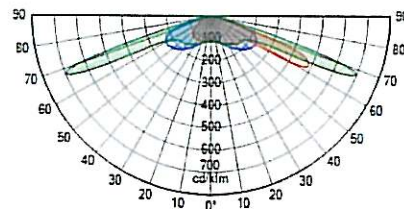


### 2.4. AMPERA MIDI 64 LEDs 700mA NW Flat, Glass Extra Clear, Smooth 5119 351452



Type	AMPERA MIDI
Reflector	5119
Source	64 LEDs 700mA NW
Protector	Flat, Glass Extra Clear, Smooth
Setting	
Source flux	17.8 klm
G-Class	3

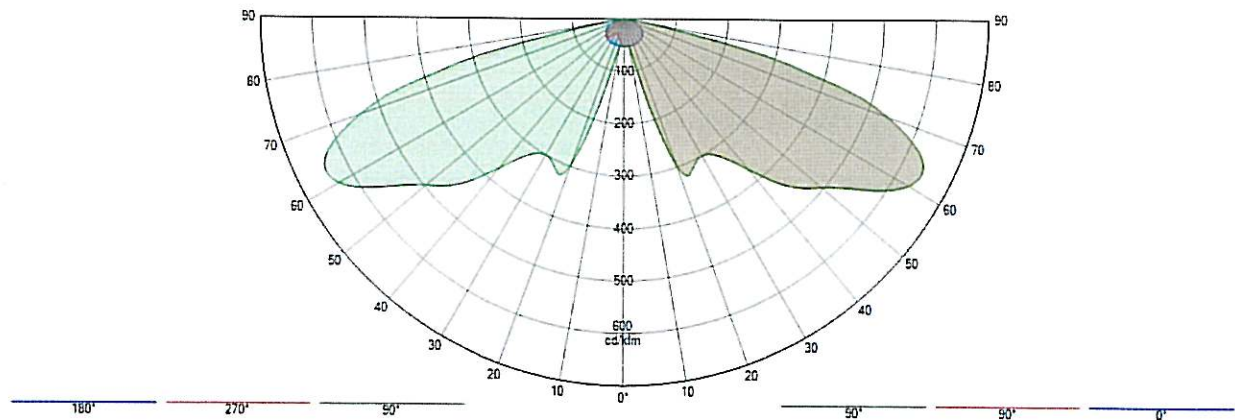
Luminaire wattage	139.0 W
Source wattage	139.0 W
Efficacy	106 lm/W
Luminaire flux	14.783 klm
MF	0.80
Matrix	351452



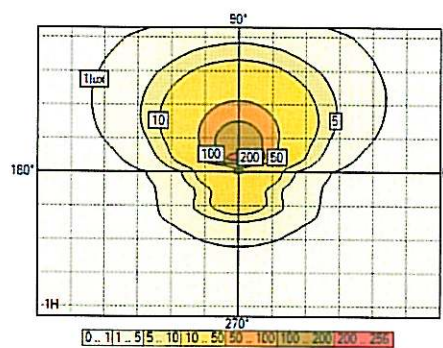
### 3. Photometric documents

3.1. OMNISTAR 144 LEDs 1000mA NW Flat, Glass Extra Clear, Smooth 2266 347402  
347402

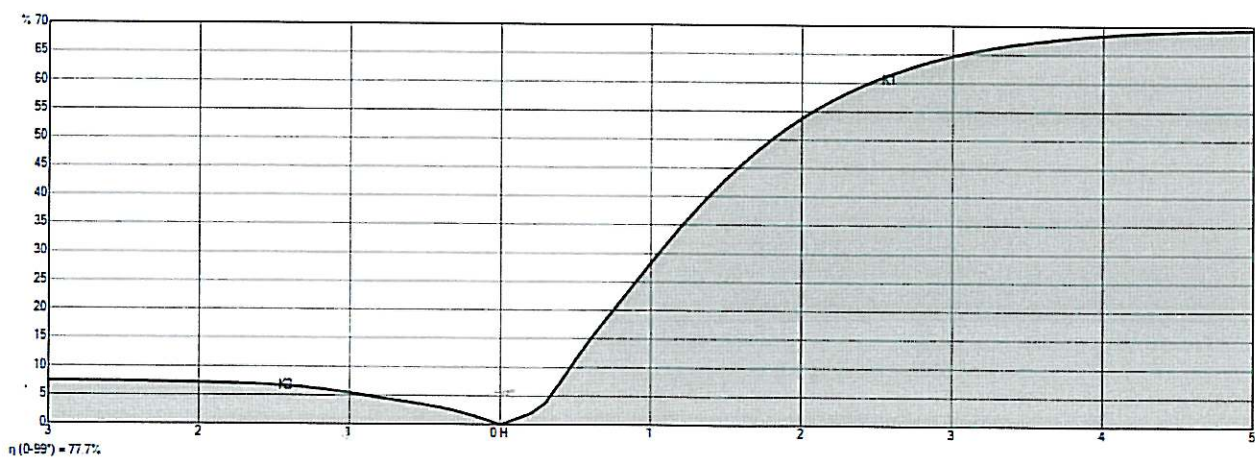
### Polar/Cartesian diagram



Isolux



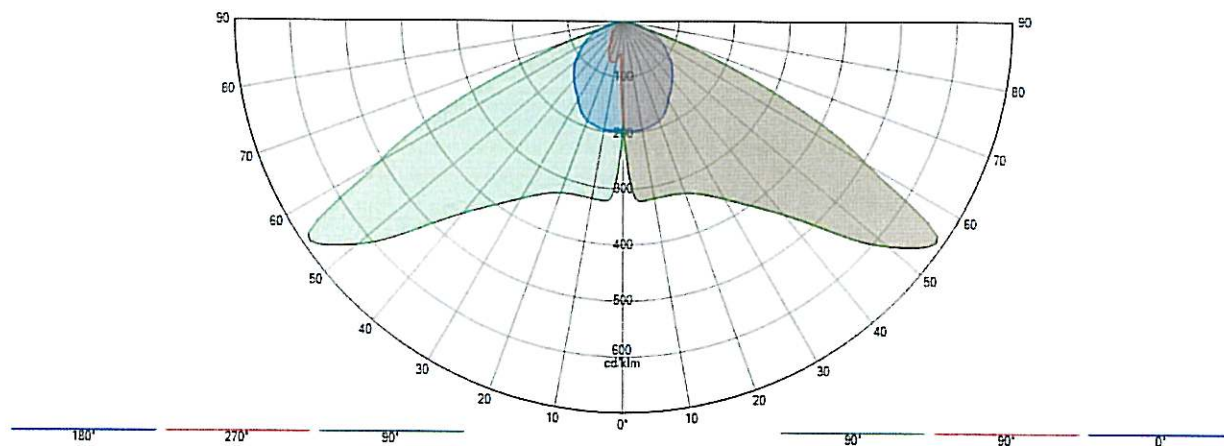
### Utilization curve



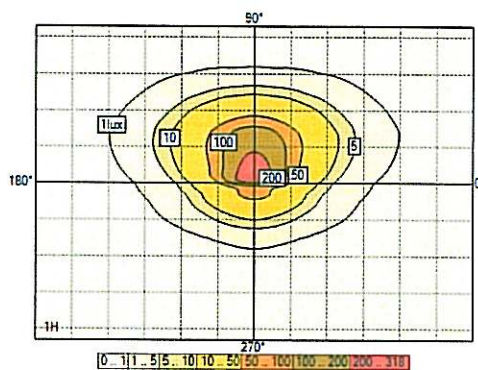
### 3.2. OMNISTAR 144 LEDs 1000mA NW Flat, Glass Extra Clear, Smooth 2261 347362

347362

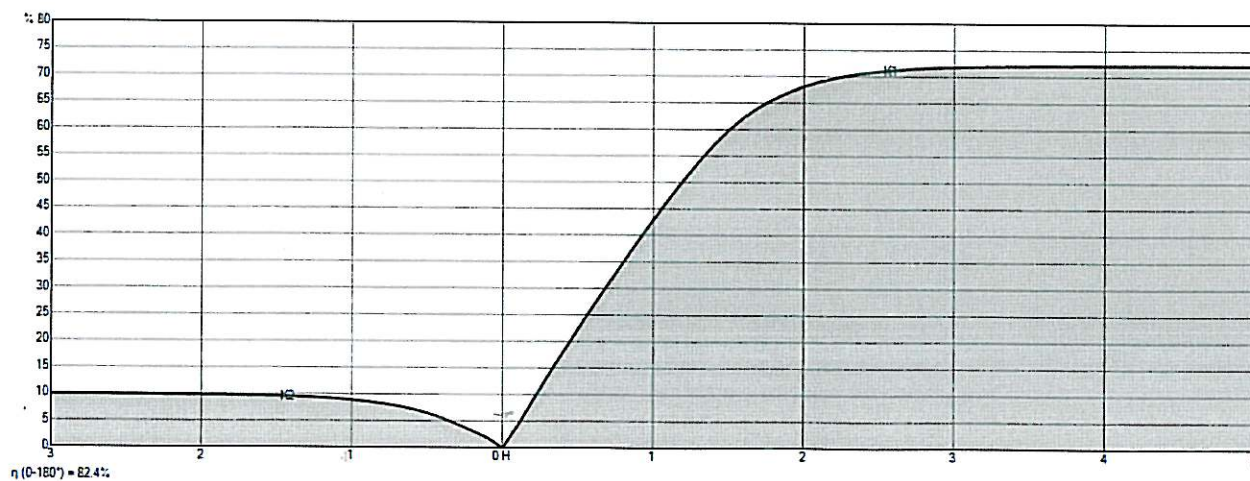
Polar/Cartesian diagram



Isolux



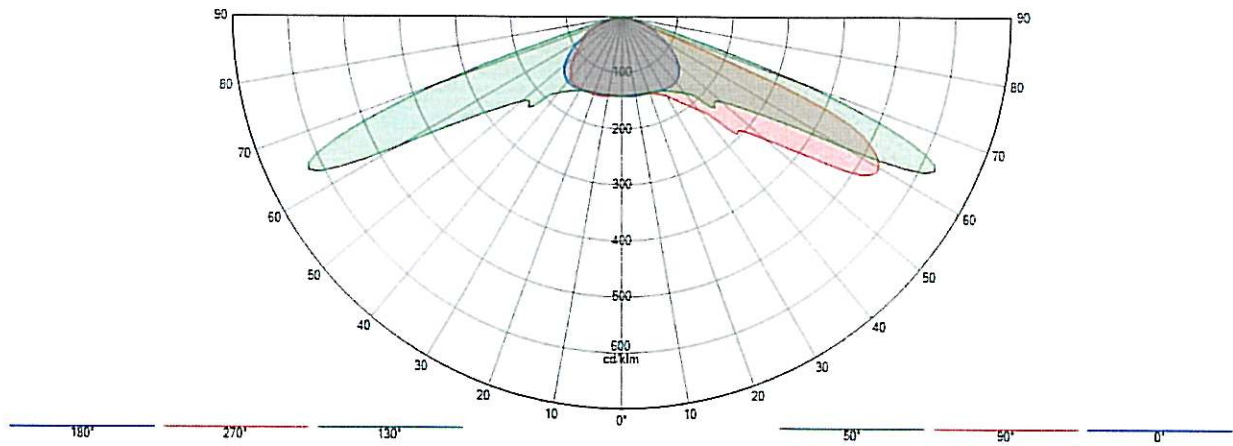
Utilization curve



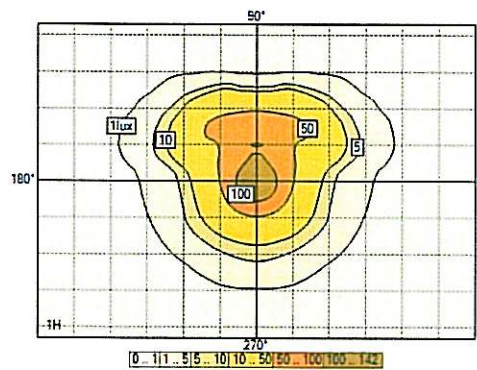
### 3.3. AMPERA MAXI 96 LEDs 700mA NW Flat, Glass Extra Clear, Smooth 5121 357112

357112

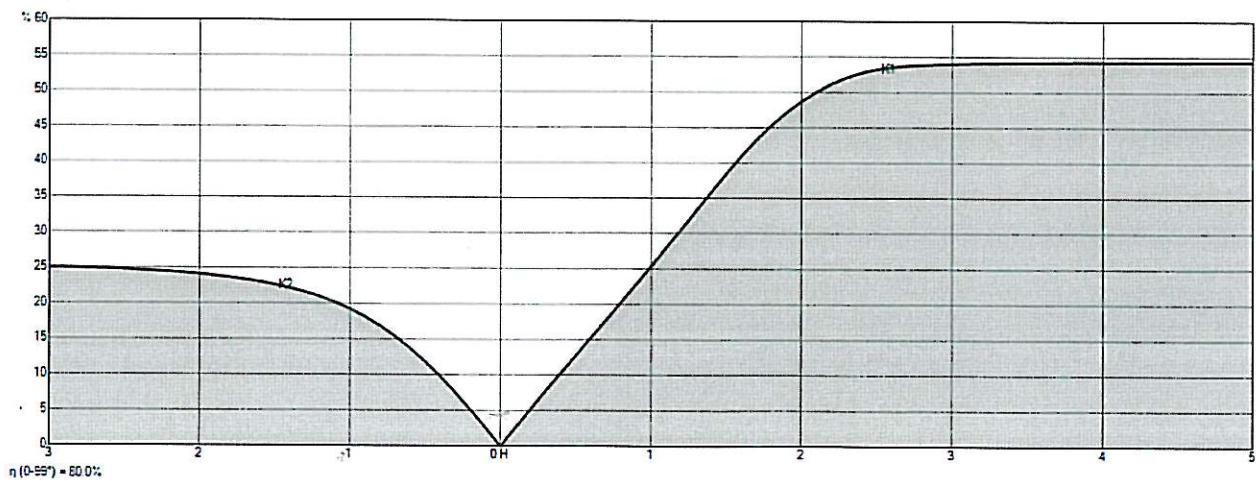
Polar/Cartesian diagram



Isolux



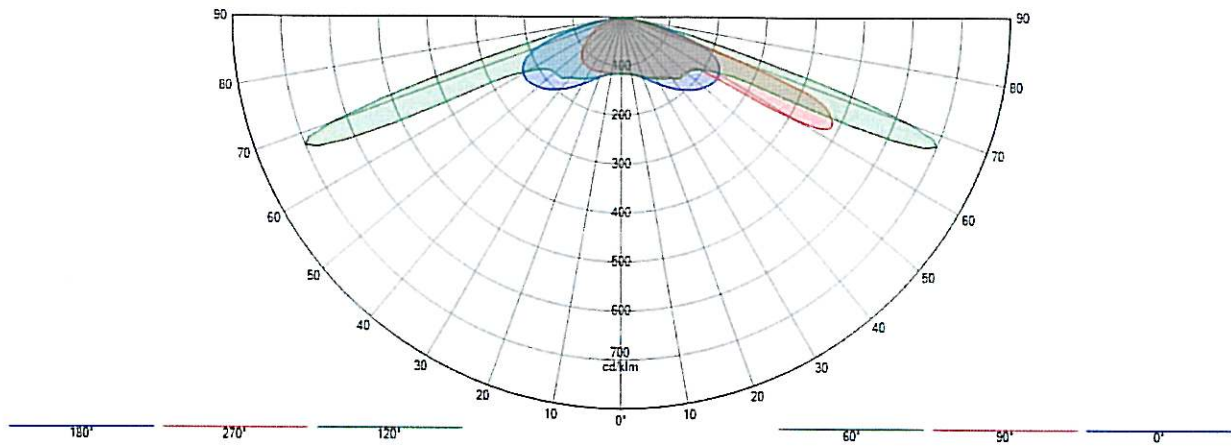
Utilization curve



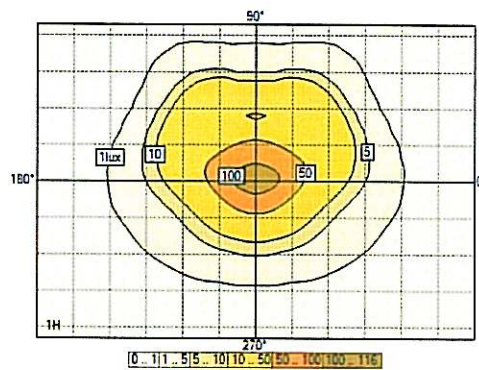
### 3.4. AMPERA MIDI 64 LEDs 700mA NW Flat, Glass Extra Clear, Smooth 5119 351452

351452

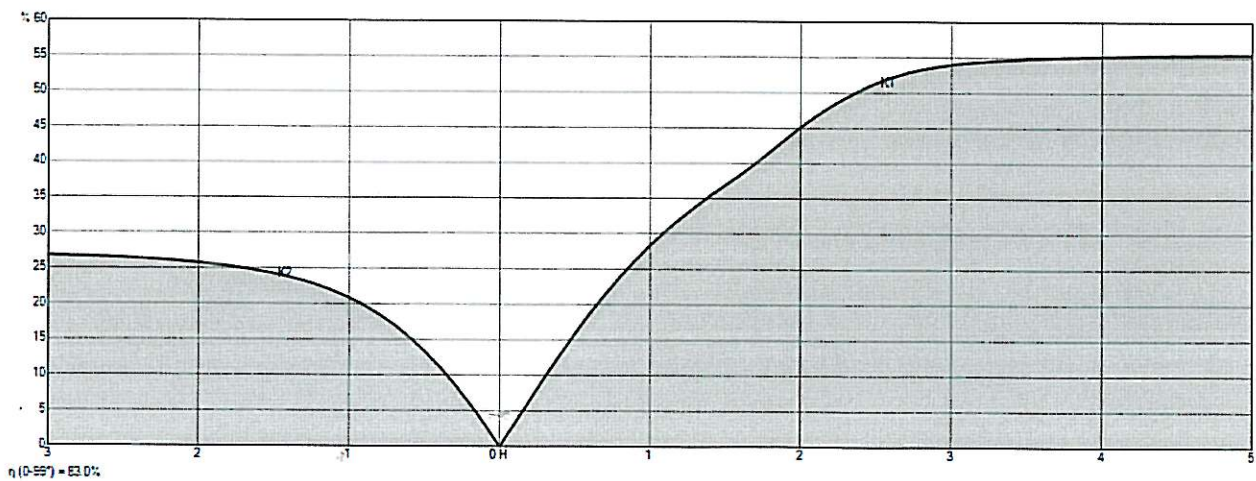
Polar/Cartesian diagram



Isolux



Utilization curve



## 4. Results

### 4.1. Grid summary

- Suprafata totala

1. Normal illuminance	Ave (A)(lux)	Min/Ave (%)	Min/Max (%)	Min (lux)	Max (lux)
Varianta 2-cerinte beneficiar	18.6	11	3	2.1	80.6

- Zona rezervoare

1. Normal illuminance	Ave (A)(lux)	Min/Ave (%)	Min/Max (%)	Min (lux)	Max (lux)
Varianta 2-cerinte beneficiar	20.6	50	13	10.2	76.6

- Zona rezervoare - 2

1. Normal illuminance	Ave (A)(lux)	Min/Ave (%)	Min/Max (%)	Min (lux)	Max (lux)
Varianta 2-cerinte beneficiar	21.1	27	8	5.7	71.5

- Zona rezervoare - 3

1. Normal illuminance	Ave (A)(lux)	Min/Ave (%)	Min/Max (%)	Min (lux)	Max (lux)
Varianta 2-cerinte beneficiar	20.1	56	22	11.3	51.6

- Alee (1)

1. Normal illuminance	Ave (A)(lux)	Min/Ave (%)	Min/Max (%)	Min (lux)	Max (lux)
Varianta 2-cerinte beneficiar	7.9	68	31	5.4	17.2

- Alee (2)

1. Normal illuminance	Ave (A)(lux)	Min/Ave (%)	Min/Max (%)	Min (lux)	Max (lux)
Varianta 2-cerinte beneficiar	24.8	35	18	8.7	47.9

- Alee (4)

1. Normal illuminance	Ave (A)(lux)	Min/Ave (%)	Min/Max (%)	Min (lux)	Max (lux)
Varianta 2-cerinte beneficiar	13.6	24	10	3.2	33.6

- Alee (5)

1. Normal illuminance	Ave (A)(lux)	Min/Ave (%)	Min/Max (%)	Min (lux)	Max (lux)
Varianta 2-cerinte beneficiar	28.3	30	13	8.6	65.2

- Alee (6)

1. Normal illuminance	Ave (A)(lux)	Min/Ave (%)	Min/Max (%)	Min (lux)	Max (lux)
Varianta 2-cerinte beneficiar	18.6	43	23	8.0	34.9

- Alee (7)

1. Normal illuminance	Ave (A)(lux)	Min/Ave (%)	Min/Max (%)	Min (lux)	Max (lux)
Varianta 2-cerinte beneficiar	10.4	65	38	6.8	18.0

• Gara lansare

1. Normal illuminance	Ave (A)(lux)	Min/Ave (%)	Min/Max (%)	Min (lux)	Max (lux)
Varianta 2-cerinte beneficiar	20.8	69	54	14.3	26.7

• Statie pompe

1. Normal illuminance	Ave (A)(lux)	Min/Ave (%)	Min/Max (%)	Min (lux)	Max (lux)
Varianta 2-cerinte beneficiar	20.4	70	37	14.3	38.7

• Gara primire

1. Normal illuminance	Ave (A)(lux)	Min/Ave (%)	Min/Max (%)	Min (lux)	Max (lux)
Varianta 2-cerinte beneficiar	22.6	55	25	12.3	48.5



## 5. Summary power

### 5.1. Varianta 1-Propunere ROS

Fixture	Qty	Dimming	Power / Fixture	Total
AMPERA MAXI 96 LEDs 700mA NW Flat, Glass Extra Clear, Smooth 5121 357112	8	100 %	213 W	1704 W
AMPERA MIDI 64 LEDs 700mA NW Flat, Glass Extra Clear, Smooth 5119 351452	24	100 %	139 W	3336 W
OMNISTAR 144 LEDs 1000mA NW Flat, Glass Extra Clear, Smooth 2261 347362	3	100 %	470 W	1410 W
OMNISTAR 144 LEDs 1000mA NW Flat, Glass Extra Clear, Smooth 2266 347402	18	100 %	470 W	8460 W

Total : 14910 W

### 5.2. Varianta 2-cerinte beneficiar





Fixture	Qty	Dimming	Power / Fixture	Total
AMPERA MAXI 96 LEDs 700mA NW Flat, Glass Extra Clear, Smooth 5121 357112	8	100 %	213 W	1704 W
AMPERA MIDI 64 LEDs 700mA NW Flat, Glass Extra Clear, Smooth 5119 351452	17	100 %	139 W	2363 W
OMNISTAR 144 LEDs 1000mA NW Flat, Glass Extra Clear, Smooth 2261 347362	3	100 %	470 W	1410 W
OMNISTAR 144 LEDs 1000mA NW Flat, Glass Extra Clear, Smooth 2266 347402	18	100 %	470 W	8460 W

Total : 13937 W

## 6. Day profiles

### 7. Varianta 2-cerinte beneficiar

#### 7.1. Matrix description

Matrix	Description	Source flux	Luminaire flux	Efficacy	MF	Fixture
347362	OMNISTAR 144 LEDs 1000mA NW Flat, Glass Extra Clear, Smooth 2261 347362	50.688	41.776	89	0.800	
347402	OMNISTAR 144 LEDs 1000mA NW Flat, Glass Extra Clear, Smooth 2266 347402	50.688	39.386	84	0.800	
351452	AMPERA MIDI 64 LEDs 700mA NW Flat, Glass Extra Clear, Smooth 5119 351452	17.818	14.783	106	0.800	
357112	AMPERA MAXI 96 LEDs 700mA NW Flat, Glass Extra Clear, Smooth 5121 357112	26.726	21.390	100	0.800	

#### 7.2. Luminaire positions

	N°	Position			Luminaire						
		X [m]	Y [m]	Z [m]	Matrix	Description	Az [°]	Incl [°]	Rot [°]	Flux [klm]	MF
<input checked="" type="checkbox"/>	1	-77.87	56.94	10.00	357112	AMPERA MAXI 96 LEDs 700mA NW Flat, Glass ...	90.0	5.0	0.0	26.726	0.800
<input checked="" type="checkbox"/>	2	-75.91	93.56	10.00	357112	AMPERA MAXI 96 LEDs 700mA NW Flat, Glass ...	90.0	5.0	0.0	26.726	0.800
<input checked="" type="checkbox"/>	3	-72.71	23.09	10.00	357112	AMPERA MAXI 96 LEDs 700mA NW Flat, Glass ...	90.0	5.0	0.0	26.726	0.800
<input checked="" type="checkbox"/>	4	-71.75	-35.63	10.00	357112	AMPERA MAXI 96 LEDs 700mA NW Flat, Glass ...	90.0	5.0	0.0	26.726	0.800
<input checked="" type="checkbox"/>	5	-70.65	-75.58	10.00	351452	AMPERA MIDI 64 LEDs 700mA NW Flat, Glass ...	90.0	5.0	0.0	17.818	0.800
<input checked="" type="checkbox"/>	6	-70.33	-0.54	10.00	357112	AMPERA MAXI 96 LEDs 700mA NW Flat, Glass ...	90.0	5.0	0.0	26.726	0.800

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✓	7	-69.29	-107.10	10.00	351452	AMPERA MIDI 64 LEDs 700mA NW Flat, Glass ...	90.0	5.0	0.0	17.818	0.800
✓	8	-67.93	-131.37	10.00	351452	AMPERA MIDI 64 LEDs 700mA NW Flat, Glass ...	0.0	5.0	0.0	17.818	0.800
✓	9	-42.87	102.07	10.00	357112	AMPERA MAXI 96 LEDs 700mA NW Flat, Glass ...	180.0	0.0	0.0	26.726	0.800
✓	10	-33.64	-58.11	10.00	351452	AMPERA MIDI 64 LEDs 700mA NW Flat, Glass ...	-180.0	5.0	0.0	17.818	0.800
✓	11	-33.64	-57.11	10.00	351452	AMPERA MIDI 64 LEDs 700mA NW Flat, Glass ...	0.0	5.0	0.0	17.818	0.800
✓	12	-31.22	12.81	16.00	347402	OMNISTAR 144 LEDs 1000mA NW Flat, Glass ...	-45.0	10.0	0.0	50.688	0.800
✓	13	-30.51	11.10	16.00	347402	OMNISTAR 144 LEDs 1000mA NW Flat, Glass ...	-180.0	5.0	0.0	50.688	0.800
✓	14	-30.51	13.10	16.00	347402	OMNISTAR 144 LEDs 1000mA NW Flat, Glass ...	0.0	10.0	0.0	50.688	0.800
✓	15	-29.81	11.39	16.00	347402	OMNISTAR 144 LEDs 1000mA NW Flat, Glass ...	-225.0	10.0	0.0	50.688	0.800
✓	16	-29.81	12.81	16.00	347402	OMNISTAR 144 LEDs 1000mA NW Flat, Glass ...	45.0	15.0	0.0	50.688	0.800
✓	17	-29.51	12.10	16.00	347402	OMNISTAR 144 LEDs 1000mA NW Flat, Glass ...	90.0	15.0	0.0	50.688	0.800
✓	18	-29.44	-130.68	10.00	351452	AMPERA MIDI 64 LEDs 700mA NW Flat, Glass ...	0.0	5.0	0.0	17.818	0.800
✓	19	-8.99	96.98	10.00	357112	AMPERA MAXI 96 LEDs 700mA NW Flat, Glass ...	180.0	0.0	0.0	26.726	0.800
✓	20	-7.56	97.24	10.00	357112	AMPERA MAXI 96 LEDs 700mA NW Flat, Glass ...	135.0	10.0	0.0	26.726	0.800
✓	21	9.51	-61.85	10.00	351452	AMPERA MIDI 64 LEDs 700mA NW Flat, Glass ...	-180.0	5.0	0.0	17.818	0.800
✓	22	9.51	-60.85	10.00	351452	AMPERA MIDI 64 LEDs 700mA NW Flat, Glass ...	0.0	5.0	0.0	17.818	0.800
✓	23	16.54	-127.80	10.00	351452	AMPERA MIDI 64 LEDs 700mA NW Flat, Glass ...	0.0	5.0	0.0	17.818	0.800
✓	24	47.31	-130.10	10.00	351452	AMPERA MIDI 64 LEDs 700mA NW Flat, Glass ...	0.0	5.0	0.0	17.818	0.800
✓	25	60.21	-28.31	16.00	347402	OMNISTAR 144 LEDs 1000mA NW Flat, Glass ...	-90.0	15.0	0.0	50.688	0.800
✓	26	60.50	-27.61	16.00	347402	OMNISTAR 144 LEDs 1000mA NW Flat, Glass ...	-45.0	15.0	0.0	50.688	0.800
✓	27	60.79	11.41	16.00	347402	OMNISTAR 144 LEDs 1000mA NW Flat, Glass ...	-90.0	15.0	0.0	50.688	0.800
✓	28	61.09	10.70	16.00	347402	OMNISTAR 144 LEDs 1000mA NW Flat, Glass ...	-135.0	20.0	0.0	50.688	0.800
✓	29	61.21	-29.31	16.00	347402	OMNISTAR 144 LEDs 1000mA NW Flat, Glass ...	-180.0	15.0	0.0	50.688	0.800
✓	30	61.21	-27.31	16.00	347402	OMNISTAR 144 LEDs 1000mA NW Flat, Glass ...	0.0	15.0	0.0	50.688	0.800
✓	31	61.79	10.41	16.00	347402	OMNISTAR 144 LEDs 1000mA NW Flat, Glass ...	-180.0	15.0	0.0	50.688	0.800
✓	32	61.79	12.41	16.00	347402	OMNISTAR 144 LEDs 1000mA NW Flat, Glass ...	0.0	15.0	0.0	50.688	0.800
✓	33	62.21	-28.31	16.00	347362	OMNISTAR 144 LEDs 1000mA NW Flat, Glass ...	90.0	0.0	0.0	50.688	0.800
✓	34	63.36	11.29	16.00	347362	OMNISTAR 144 LEDs 1000mA NW Flat, Glass ...	-270.0	0.0	0.0	50.688	0.800
✓	35	67.89	89.68	16.00	347402	OMNISTAR 144 LEDs 1000mA NW Flat, Glass ...	-90.0	15.0	0.0	50.688	0.800
✓	36	67.97	89.22	16.00	347402	OMNISTAR 144 LEDs 1000mA NW Flat, Glass ...	270.0	15.0	0.0	50.688	0.800
✓	37	68.39	88.81	16.00	347402	OMNISTAR 144 LEDs 1000mA NW Flat, Glass ...	-150.0	10.0	0.0	50.688	0.800
✓	38	68.39	90.55	16.00	347402	OMNISTAR 144 LEDs 1000mA NW Flat, Glass ...	-30.0	0.0	0.0	50.688	0.800
✓	39	69.63	-89.98	10.00	351452	AMPERA MIDI 64 LEDs 700mA NW Flat, Glass ...	-45.0	5.0	0.0	17.818	0.800
✓	40	69.89	89.68	16.00	347362	OMNISTAR 144 LEDs 1000mA NW Flat, Glass ...	90.0	0.0	0.0	50.688	0.800
✓	41	70.34	-90.68	10.00	351452	AMPERA MIDI 64 LEDs 700mA NW Flat, Glass ...	-225.0	5.0	0.0	17.818	0.800
✓	42	77.39	-128.83	10.00	351452	AMPERA MIDI 64 LEDs 700mA NW Flat, Glass ...	0.0	5.0	0.0	17.818	0.800
✓	43	111.96	-127.57	10.00	351452	AMPERA MIDI 64 LEDs 700mA NW Flat, Glass ...	0.0	5.0	0.0	17.818	0.800
✓	44	113.73	-70.47	10.00	351452	AMPERA MIDI 64 LEDs 700mA NW Flat, Glass ...	180.0	5.0	0.0	17.818	0.800
✓	45	149.30	-124.92	10.00	351452	AMPERA MIDI 64 LEDs 700mA NW Flat, Glass ...	0.0	5.0	0.0	17.818	0.800
✓	46	154.63	-69.81	10.00	351452	AMPERA MIDI 64 LEDs 700mA NW Flat, Glass ...	180.0	5.0	0.0	17.818	0.800



## 7.3. Luminaire groups

Circular partial												
	N°	Position			Luminaire					Rotation		
		X [m]	Y [m]	Z [m]	Matrix	Az [°]	Incl [°]	Rot [°]	Dim	X [°]	Y [°]	Z [°]
<input checked="" type="checkbox"/>	1	-33.64	-57.61	10.00	351452	90.0	5.0	0.0	100	0.0	0.0	90.0
<input checked="" type="checkbox"/>	2	9.51	-61.35	10.00	351452	90.0	5.0	0.0	100	0.0	0.0	90.0
<input checked="" type="checkbox"/>	3	69.99	-90.33	10.00	351452	90.0	5.0	0.0	100	0.0	0.0	135.0

Single										
	N°	Position			Luminaire					
		X [m]	Y [m]	Z [m]	Matrix	Az [°]	Incl [°]	Rot [°]	Dim [%]	
<input checked="" type="checkbox"/>	1	-77.87	56.94	10.00	357112	90.0	5.0	0.0	100	
<input checked="" type="checkbox"/>	2	-75.91	93.56	10.00	357112	90.0	5.0	0.0	100	
<input checked="" type="checkbox"/>	3	-72.71	23.09	10.00	357112	90.0	5.0	0.0	100	
<input checked="" type="checkbox"/>	4	-71.75	-35.63	10.00	357112	90.0	5.0	0.0	100	
<input checked="" type="checkbox"/>	5	-70.65	-75.58	10.00	351452	90.0	5.0	0.0	100	
<input checked="" type="checkbox"/>	6	-70.33	-0.54	10.00	357112	90.0	5.0	0.0	100	
<input checked="" type="checkbox"/>	7	-69.29	-107.10	10.00	351452	90.0	5.0	0.0	100	
<input checked="" type="checkbox"/>	8	-67.93	-131.37	10.00	351452	0.0	5.0	0.0	100	
<input checked="" type="checkbox"/>	9	-42.87	102.07	10.00	357112	180.0	0.0	0.0	100	
<input checked="" type="checkbox"/>	10	-31.22	12.81	16.00	347402	-45.0	10.0	0.0	100	
<input checked="" type="checkbox"/>	11	-30.51	11.10	16.00	347402	-180.0	5.0	0.0	100	
<input checked="" type="checkbox"/>	12	-30.51	13.10	16.00	347402	0.0	10.0	0.0	100	
<input checked="" type="checkbox"/>	13	-29.81	11.39	16.00	347402	-225.0	10.0	0.0	100	
<input checked="" type="checkbox"/>	14	-29.81	12.81	16.00	347402	45.0	15.0	0.0	100	
<input checked="" type="checkbox"/>	15	-29.51	12.10	16.00	347402	90.0	15.0	0.0	100	
<input checked="" type="checkbox"/>	16	-29.44	-130.68	10.00	351452	0.0	5.0	0.0	100	

Project : BARBATESTI-Iluminat statie Conpet

✓	17	-8.99	96.98	10.00	357112	180.0	0.0	0.0	100
✓	18	-7.56	97.24	10.00	357112	135.0	10.0	0.0	100
✓	19	16.54	-127.80	10.00	351452	0.0	5.0	0.0	100
✓	20	47.31	-130.10	10.00	351452	0.0	5.0	0.0	100
✓	21	60.21	-28.31	16.00	347402	-90.0	15.0	0.0	100
✓	22	60.50	-27.61	16.00	347402	-45.0	15.0	0.0	100
✓	23	60.79	11.41	16.00	347402	-90.0	15.0	0.0	100
✓	24	61.09	10.70	16.00	347402	-135.0	20.0	0.0	100
✓	25	61.21	-29.31	16.00	347402	-180.0	15.0	0.0	100
✓	26	61.21	-27.31	16.00	347402	0.0	15.0	0.0	100
✓	27	61.79	10.41	16.00	347402	-180.0	15.0	0.0	100
✓	28	61.79	12.41	16.00	347402	0.0	15.0	0.0	100
✓	29	62.21	-28.31	16.00	347362	90.0	0.0	0.0	100
✓	30	63.36	11.29	16.00	347362	-270.0	0.0	0.0	100
✓	31	67.89	89.68	16.00	347402	-90.0	15.0	0.0	100
✓	32	67.97	89.22	16.00	347402	270.0	15.0	0.0	100
✓	33	68.39	88.81	16.00	347402	-150.0	10.0	0.0	100
✓	34	68.39	90.55	16.00	347402	-30.0	0.0	0.0	100
✓	35	69.89	89.68	16.00	347362	90.0	0.0	0.0	100
✓	36	77.39	-128.83	10.00	351452	0.0	5.0	0.0	100
✓	37	111.96	-127.57	10.00	351452	0.0	5.0	0.0	100
✓	38	113.73	-70.47	10.00	351452	180.0	5.0	0.0	100
✓	39	149.30	-124.92	10.00	351452	0.0	5.0	0.0	100
✓	40	154.63	-69.81	10.00	351452	180.0	5.0	0.0	100

Autoritatea Națională de Reglementare  
in Domeniul Energiei

**COȘAREANU MARIANA**  
CNP: 2661112182812

*U. Coșareanu*

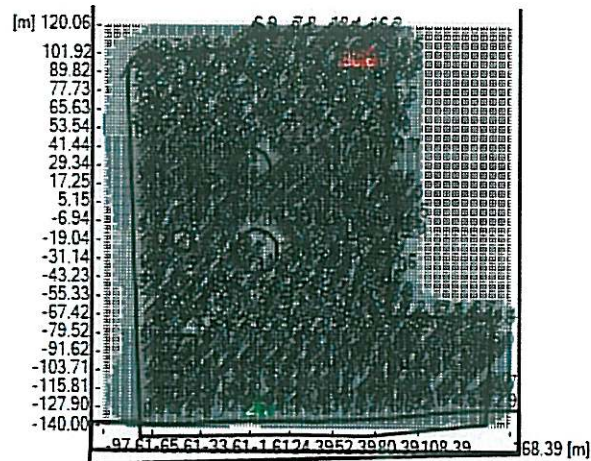
Verificator de proiecte de instalații electrice

Autorizație nr. 526 / 2014

Valabilă până la data de : 16.05.2019

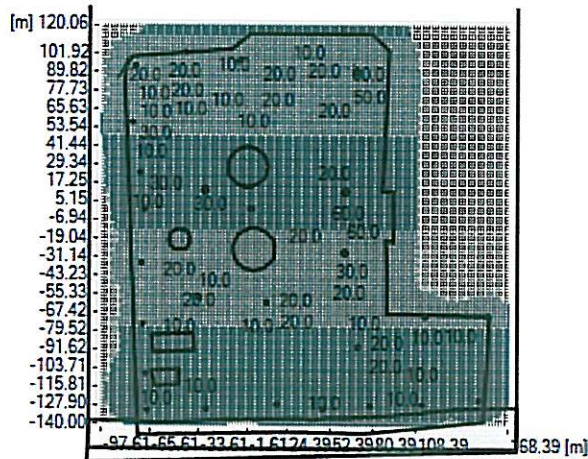
## 7.4. Suprafata totala - Normal illuminance

Values



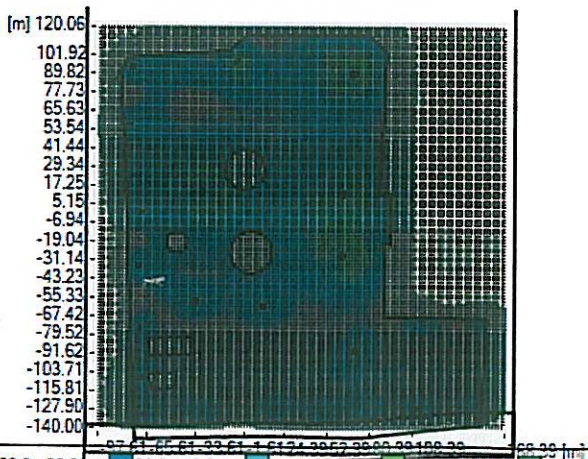
Min :	2.1 lux
Max :	80.6 lux
Avg (A) :	18.6 lux
Min / Max :	3 %
Min / Avg :	11 %
Illum. Type :	Normal

Isolevel

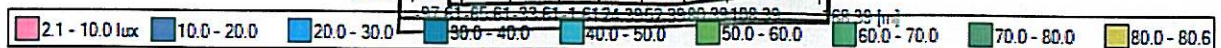


Min :	2.1 lux
Max :	80.6 lux
Avg (A) :	18.6 lux
Min / Max :	3 %
Min / Avg :	11 %
Illum. Type :	Normal

Shading

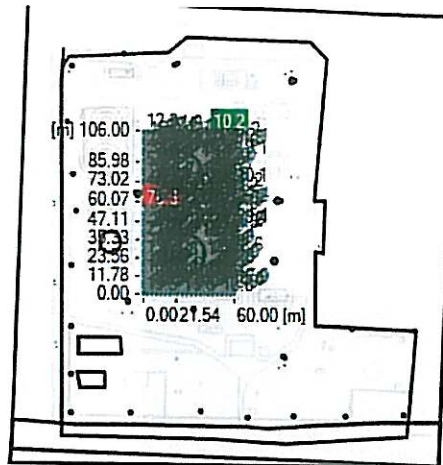


Min :	2.1 lux
Max :	80.6 lux
Avg (A) :	18.6 lux
Min / Max :	3 %
Min / Avg :	11 %
Illum. Type :	Normal



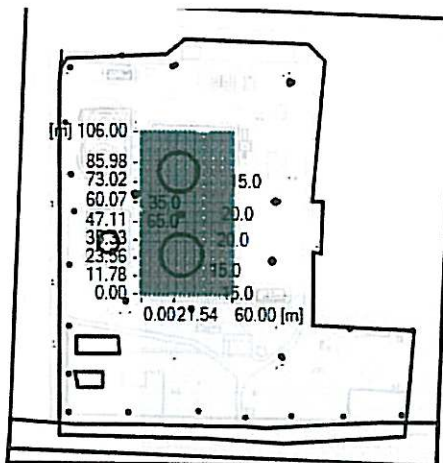
## 7.5. Zona rezervoare - Normal illuminance

Values



Min :	10.2 lux
Max :	76.6 lux
Avg (A) :	20.6 lux
Min / Max :	13 %
Min / Avg :	50 %
Illum. Type :	Normal

Isolevel

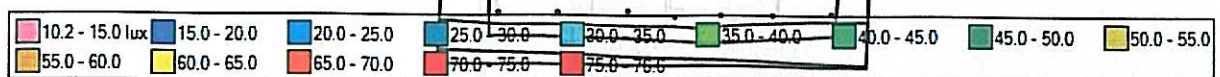


Min :	10.2 lux
Max :	76.6 lux
Avg (A) :	20.6 lux
Min / Max :	13 %
Min / Avg :	50 %
Illum. Type :	Normal

Shading

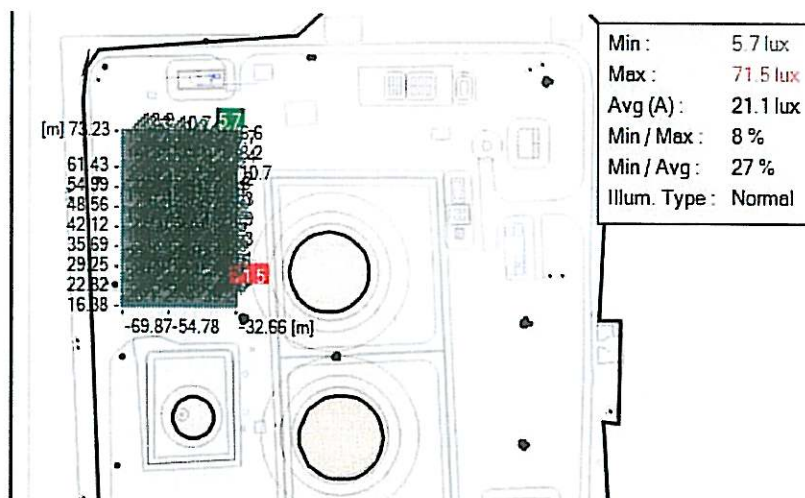


Min :	10.2 lux
Max :	76.6 lux
Avg (A) :	20.6 lux
Min / Max :	13 %
Min / Avg :	50 %
Illum. Type :	Normal

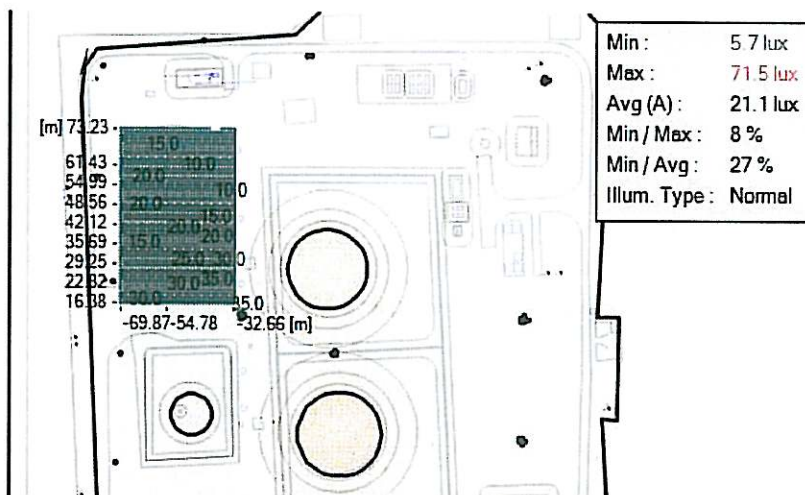


## 7.6. Zona rezervoare - 2 - Normal illuminance

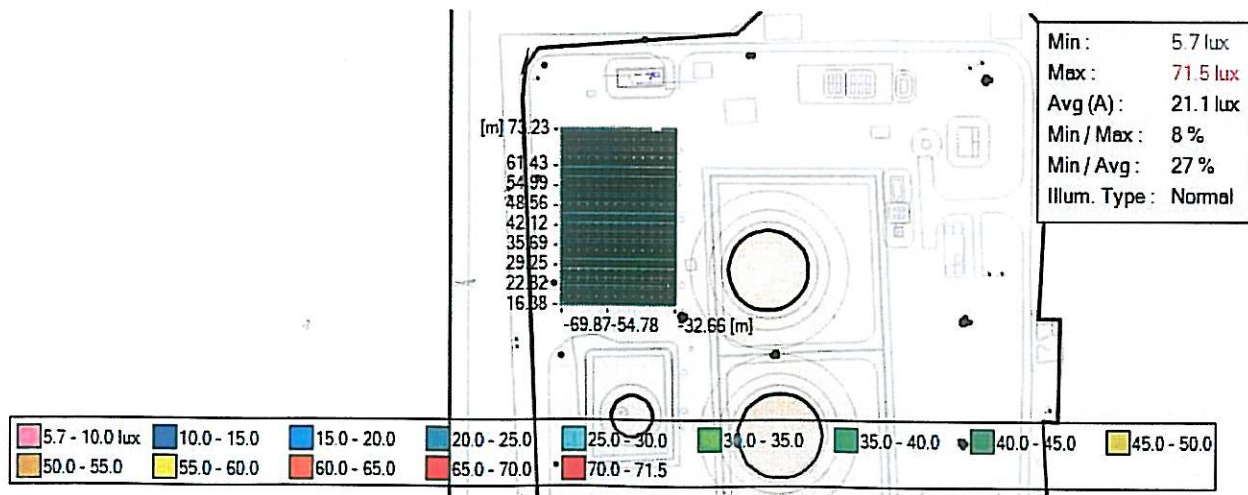
Values



Isolevel

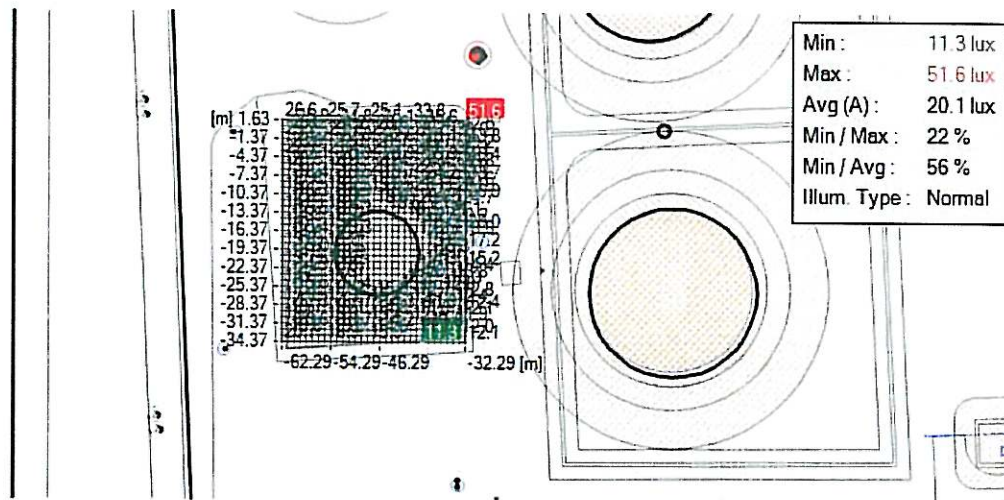


Shading

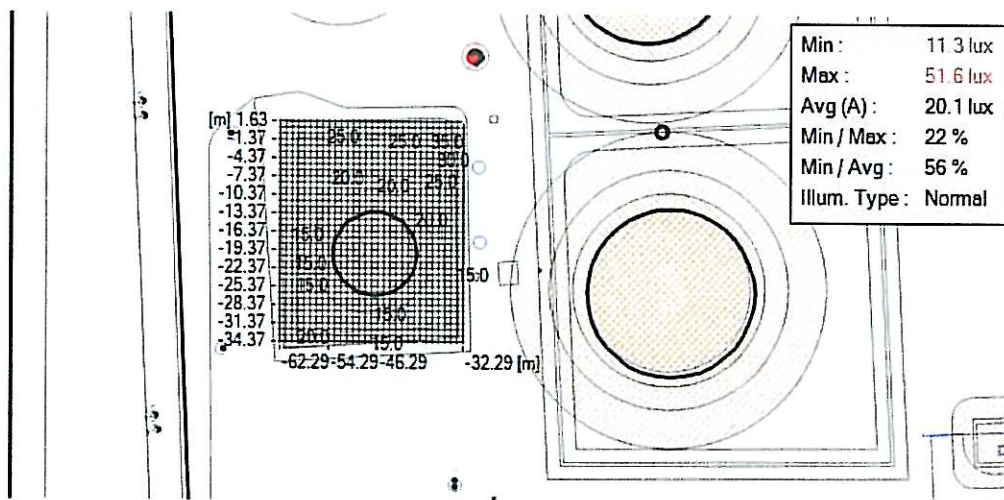


## 7.7. Zona rezervoare - 3 - Normal illuminance

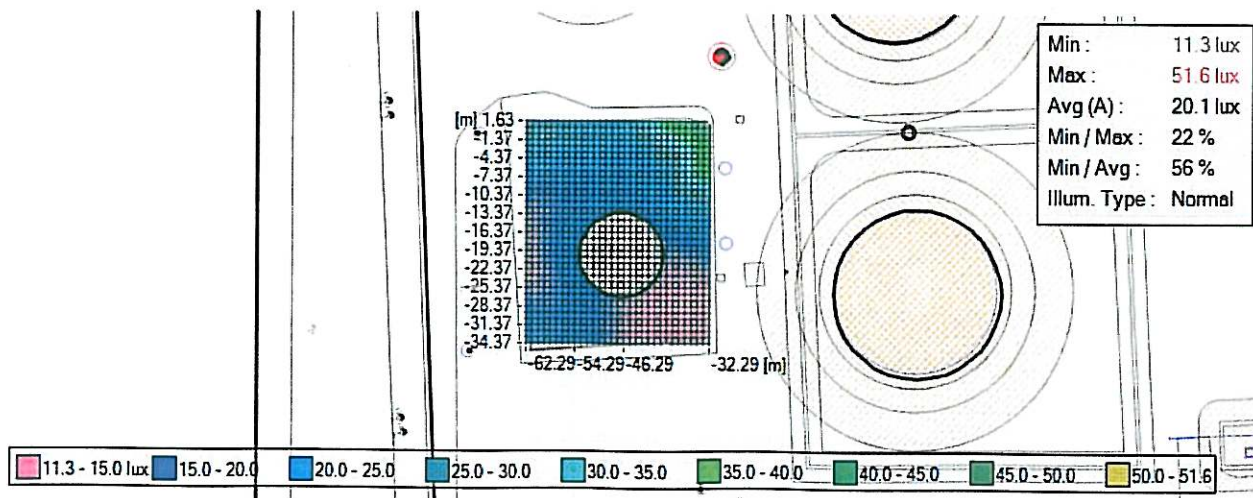
Values



Isolevel

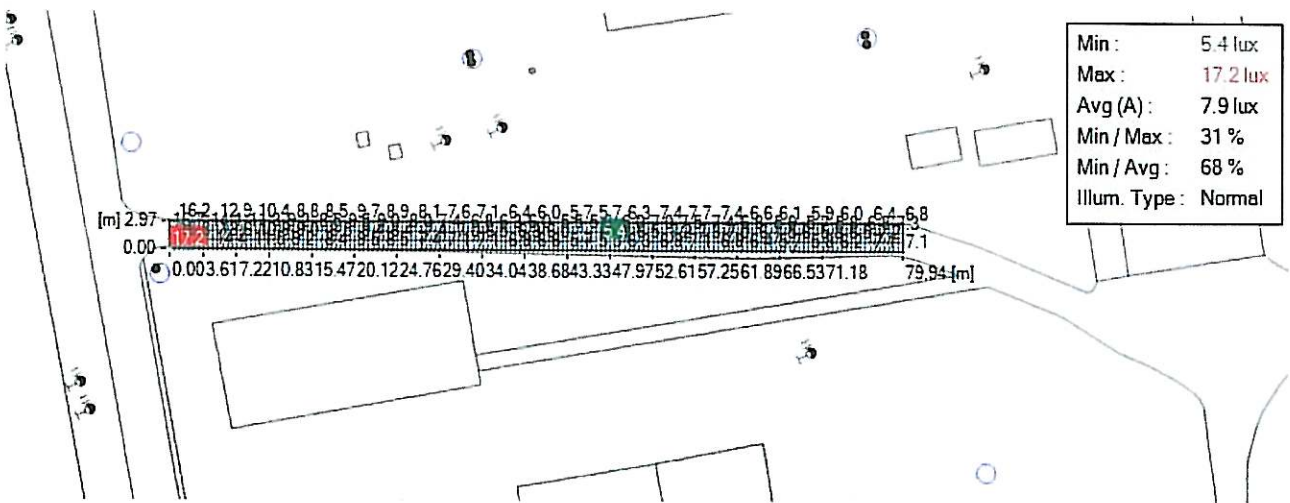


Shading



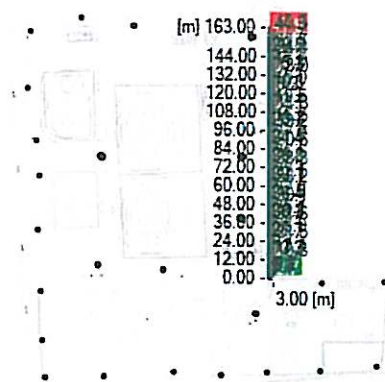
## 7.8. Alee (1) - Normal illuminance

Values



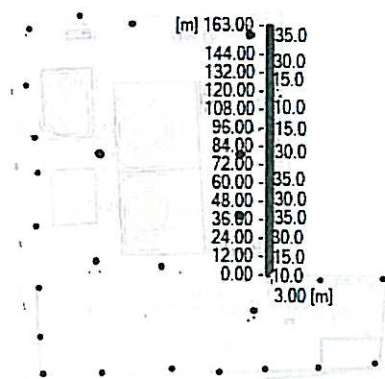
## 7.9. Alee (2) - Normal illuminance

Values



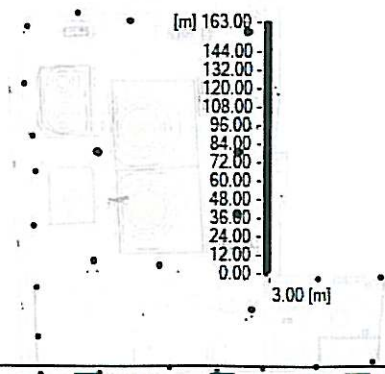
Min :	8.7 lux
Max :	47.9 lux
Avg (A) :	24.8 lux
Min / Max :	18 %
Min / Avg :	35 %
Illum. Type :	Normal

Isolevel

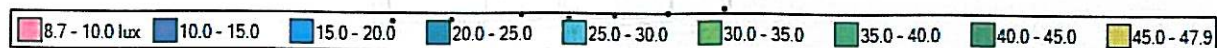


Min :	8.7 lux
Max :	47.9 lux
Avg (A) :	24.8 lux
Min / Max :	18 %
Min / Avg :	35 %
Illum. Type :	Normal

Shading

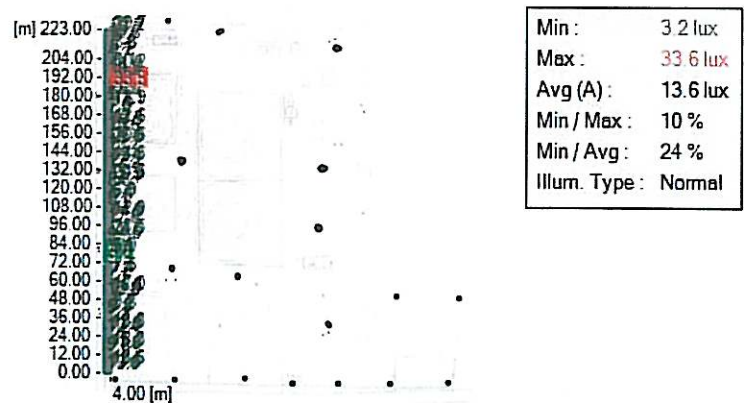


Min :	8.7 lux
Max :	47.9 lux
Avg (A) :	24.8 lux
Min / Max :	18 %
Min / Avg :	35 %
Illum. Type :	Normal

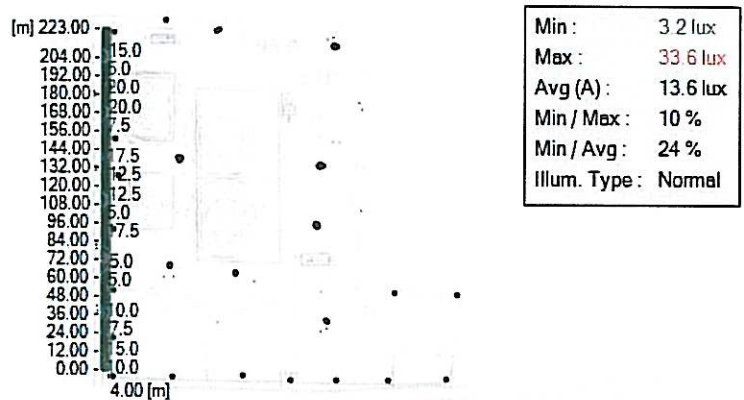


## 7.10. Alee (4) - Normal illuminance

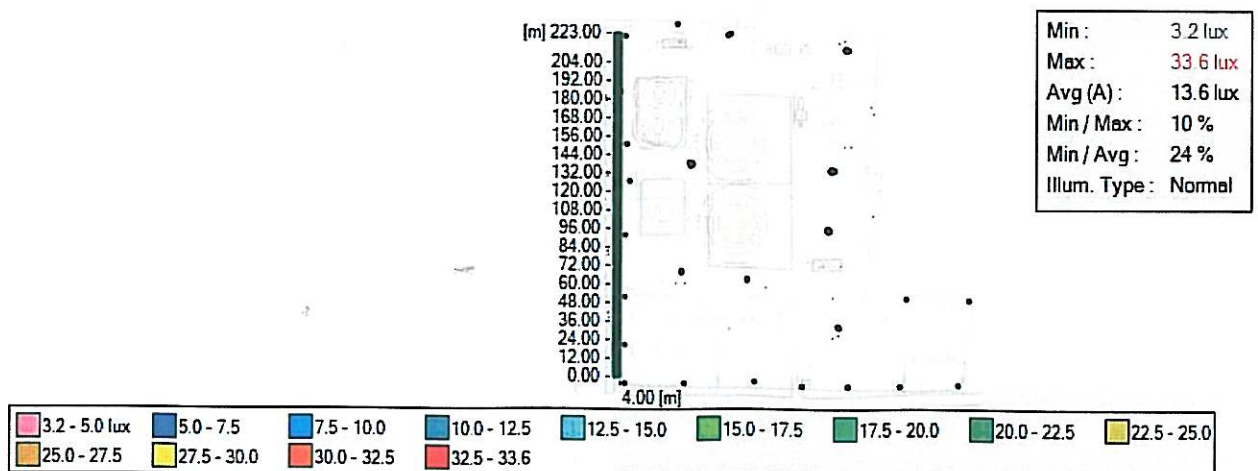
Values



Isolevel

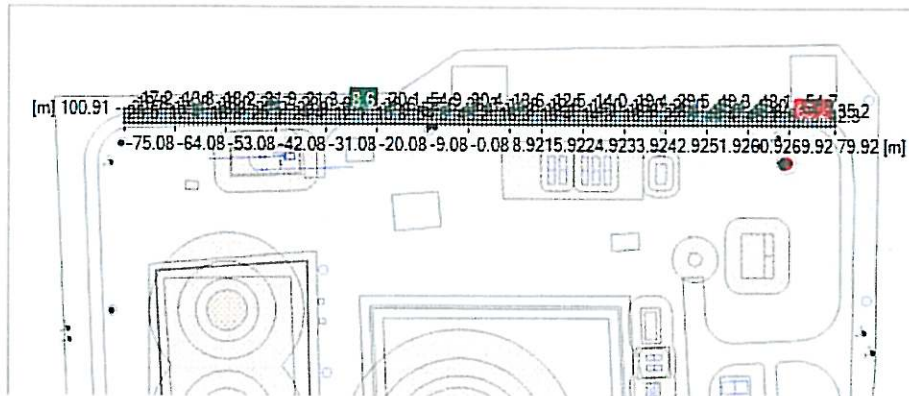


Shading



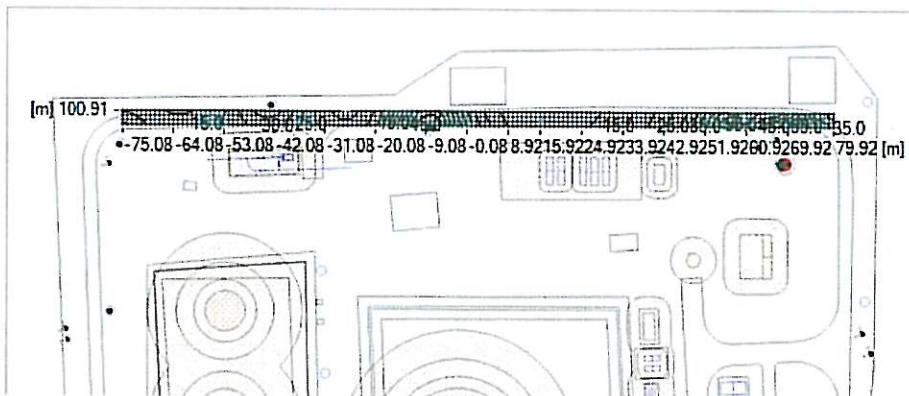
## 7.11. Alee (5) - Normal illuminance

Values



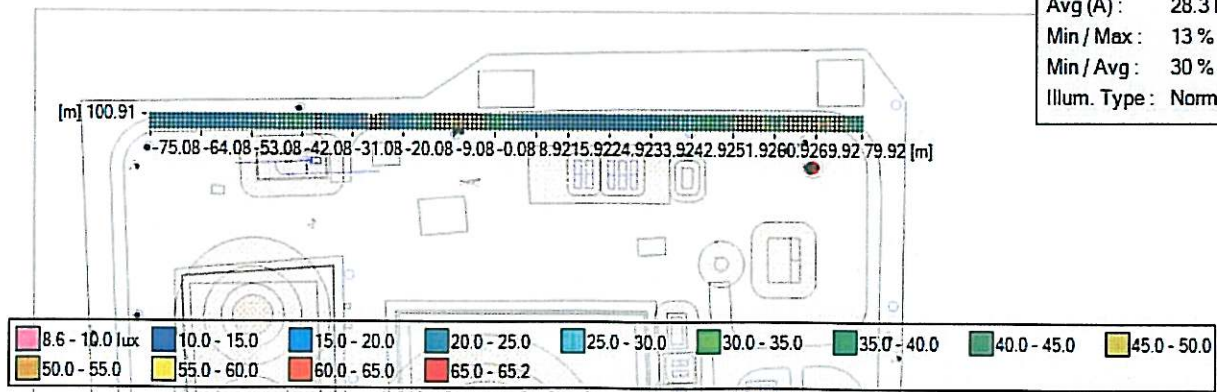
Min :	8.6 lux
Max :	65.2 lux
Avg (A) :	28.3 lux
Min / Max :	13 %
Min / Avg :	30 %
Illum. Type :	Normal

Isolevel



Min :	8.6 lux
Max :	65.2 lux
Avg (A) :	28.3 lux
Min / Max :	13 %
Min / Avg :	30 %
Illum. Type :	Normal

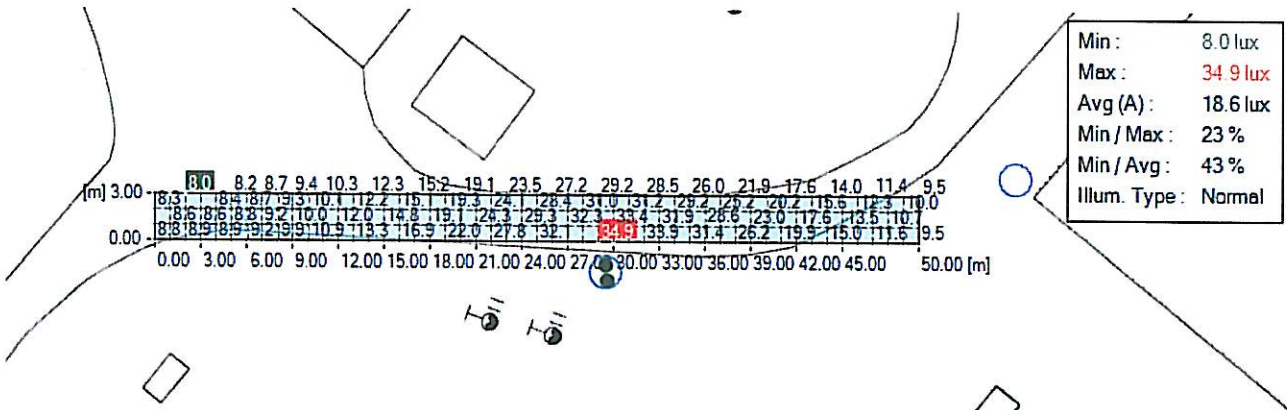
Shading



Min :	8.6 lux
Max :	65.2 lux
Avg (A) :	28.3 lux
Min / Max :	13 %
Min / Avg :	30 %
Illum. Type :	Normal

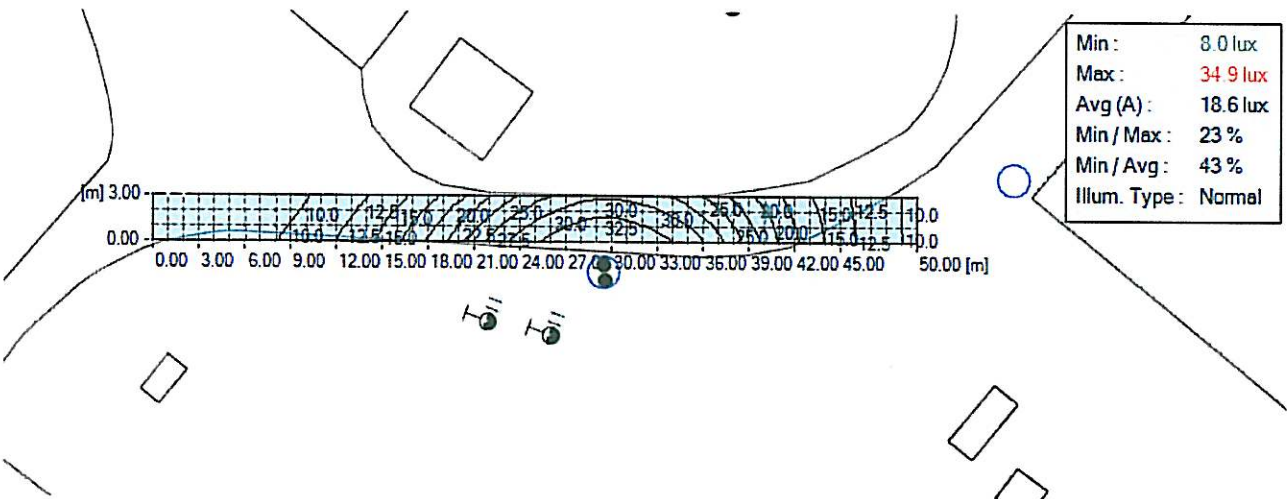
## 7.12. Alee (6) - Normal illuminance

Values



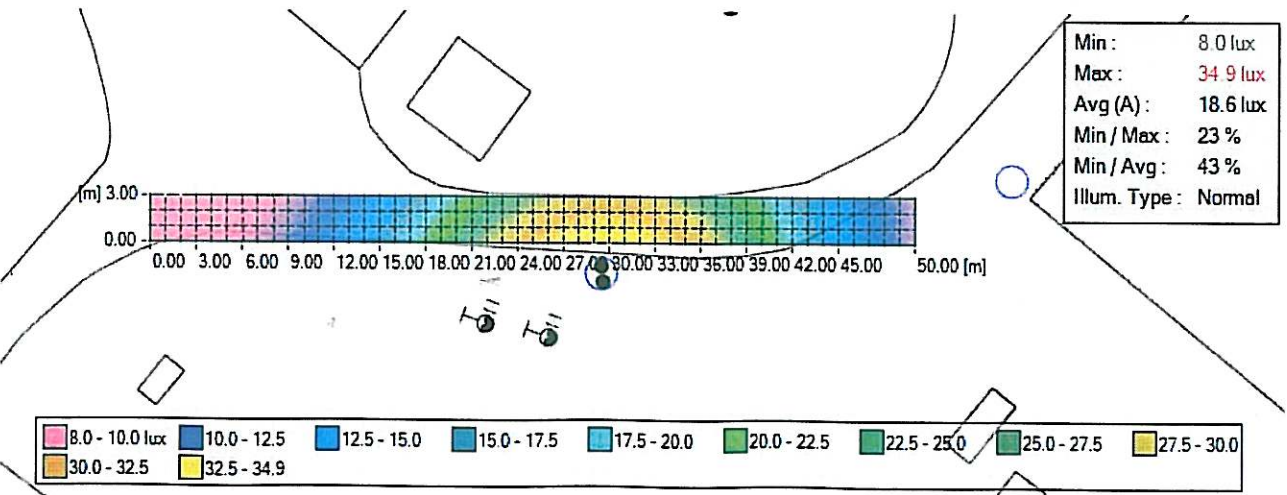
Min : 8.0 lux  
 Max : 34.9 lux  
 Avg (A) : 18.6 lux  
 Min / Max : 23 %  
 Min / Avg : 43 %  
 Illum. Type : Normal

Isolevel



Min : 8.0 lux  
 Max : 34.9 lux  
 Avg (A) : 18.6 lux  
 Min / Max : 23 %  
 Min / Avg : 43 %  
 Illum. Type : Normal

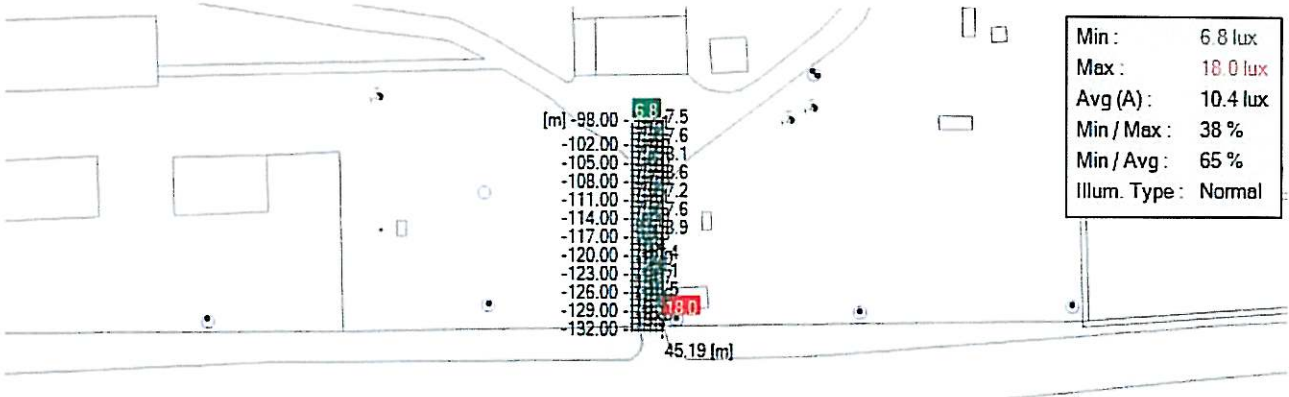
Shading



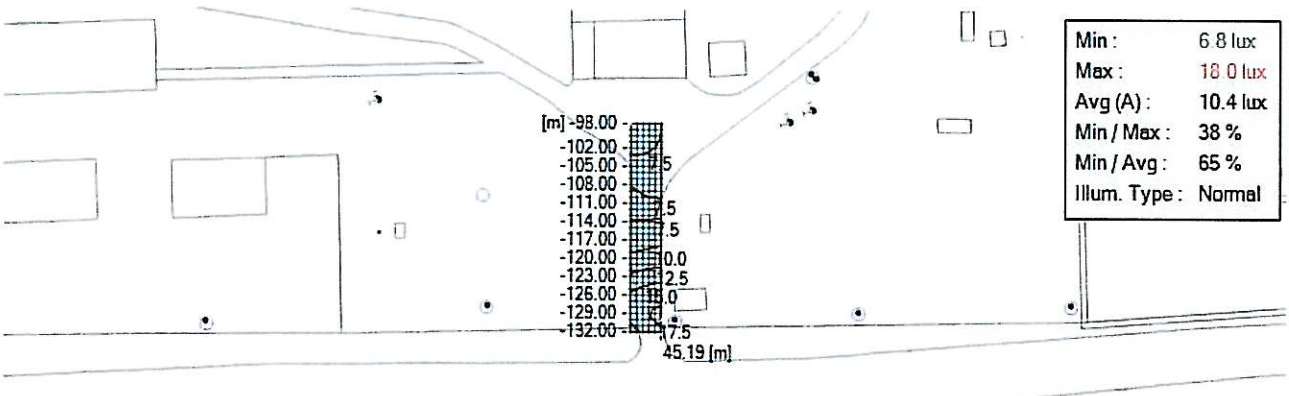
Min : 8.0 lux  
 Max : 34.9 lux  
 Avg (A) : 18.6 lux  
 Min / Max : 23 %  
 Min / Avg : 43 %  
 Illum. Type : Normal

### 7.13. Alee (7) - Normal illuminance

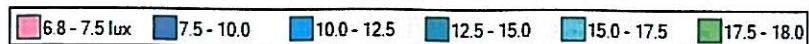
Values



Isolevel

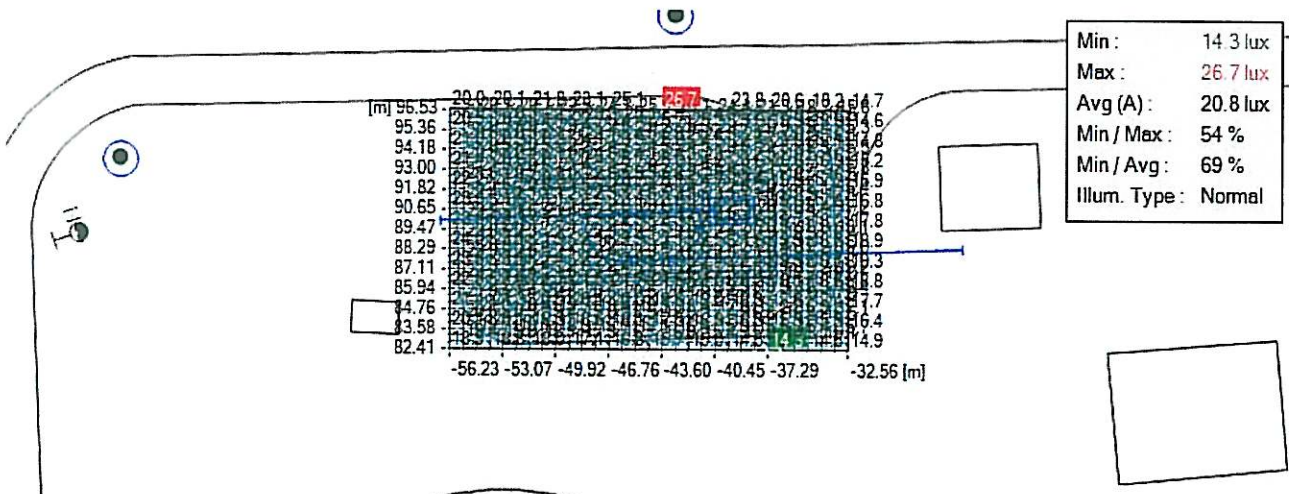


Shading

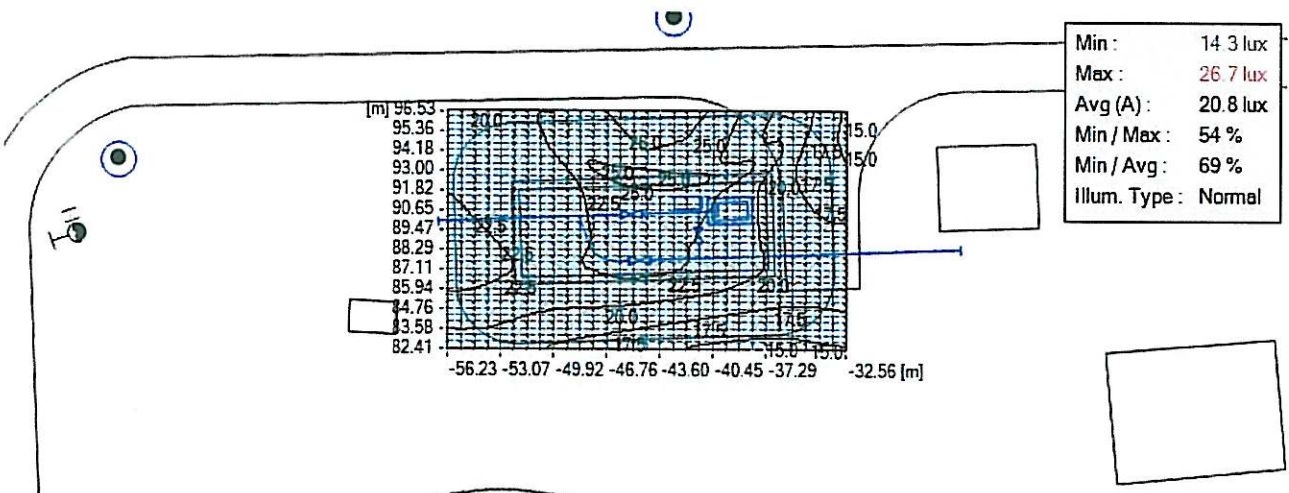


## 7.14. Gara lansare - Normal illuminance

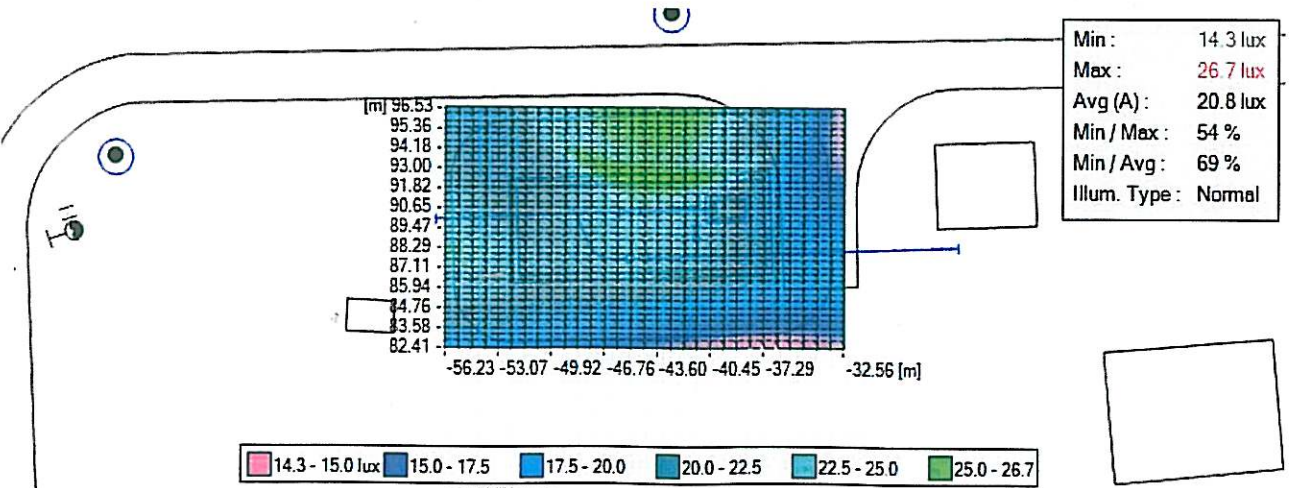
Values



Isolevel

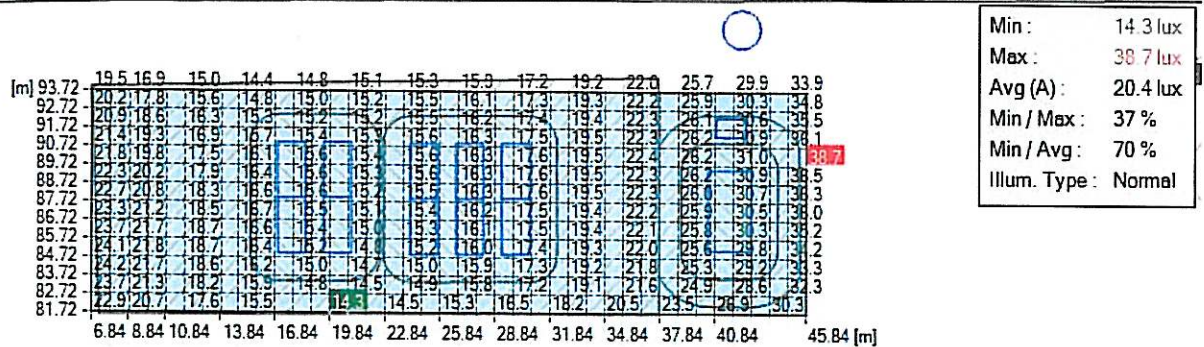


Shading

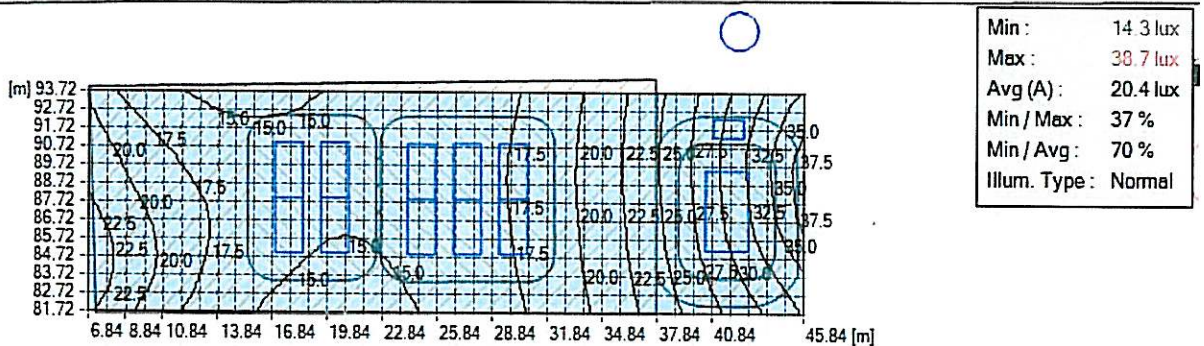


## 7.15. Statie pompe - Normal illuminance

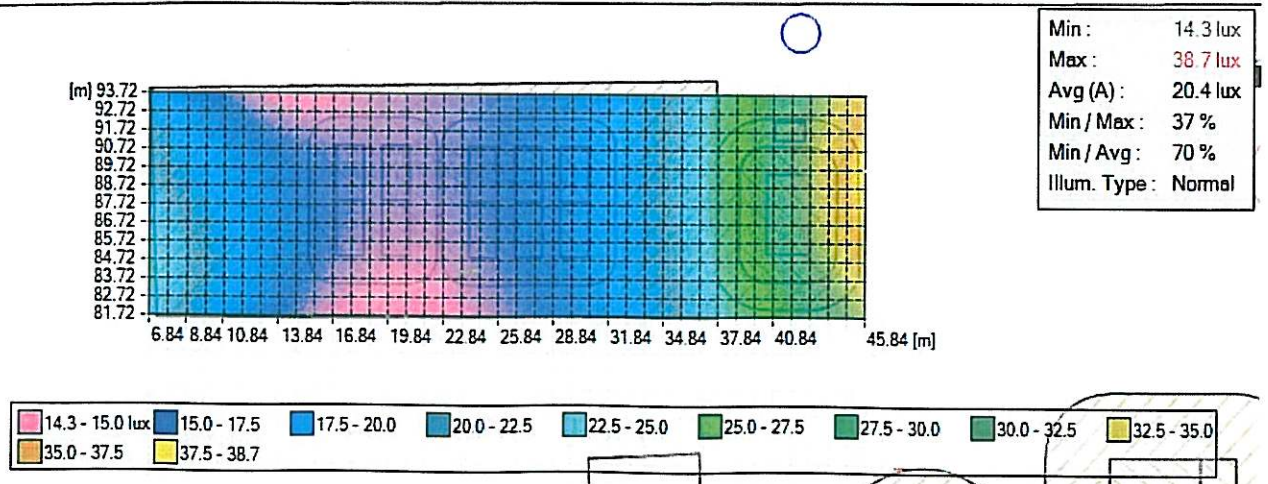
Values



Isolevel

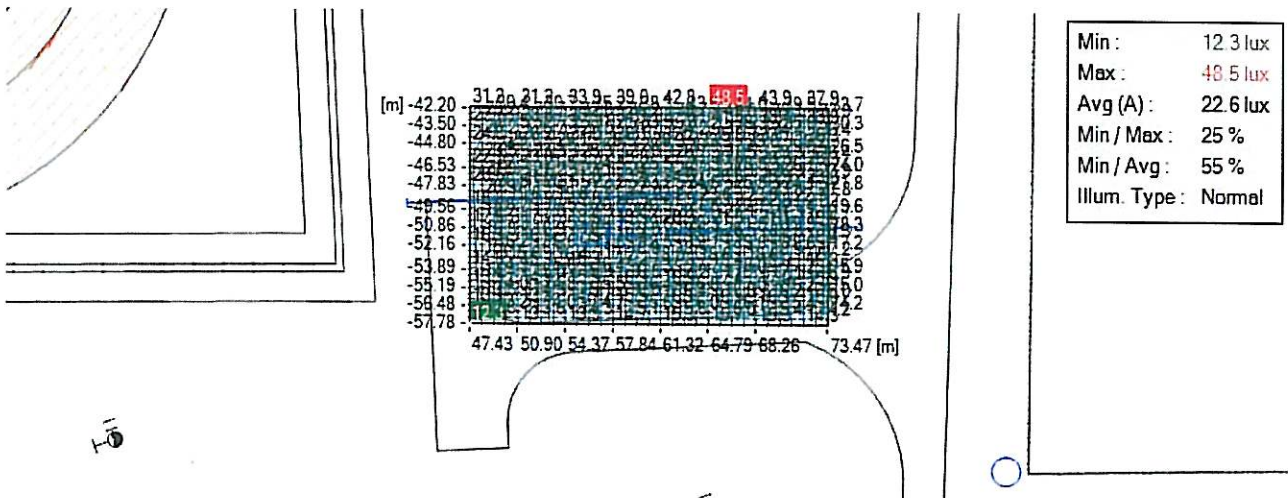


Shading

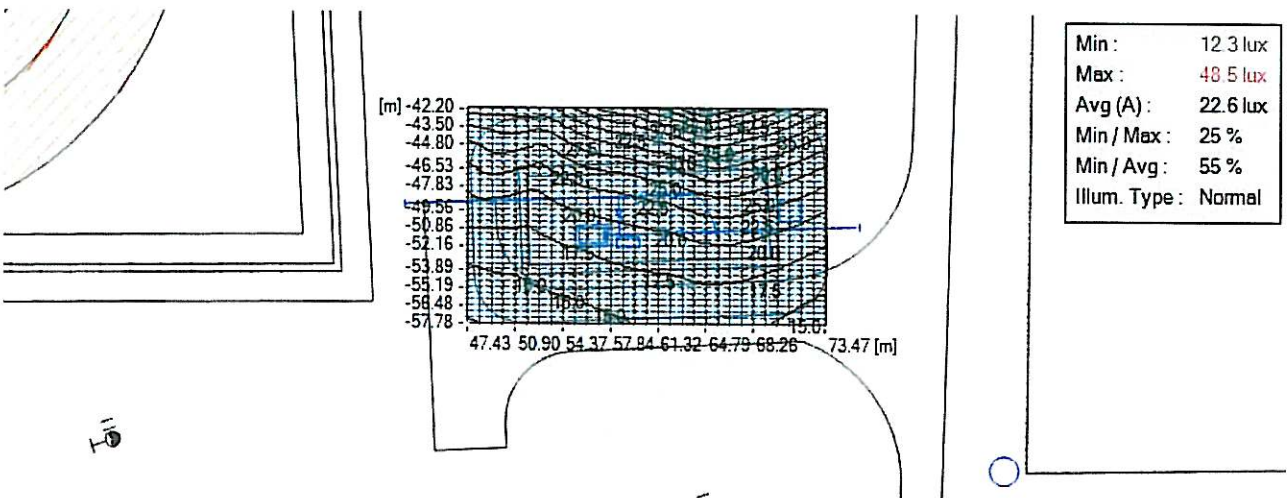


## 7.16. Gara primire - Normal illuminance

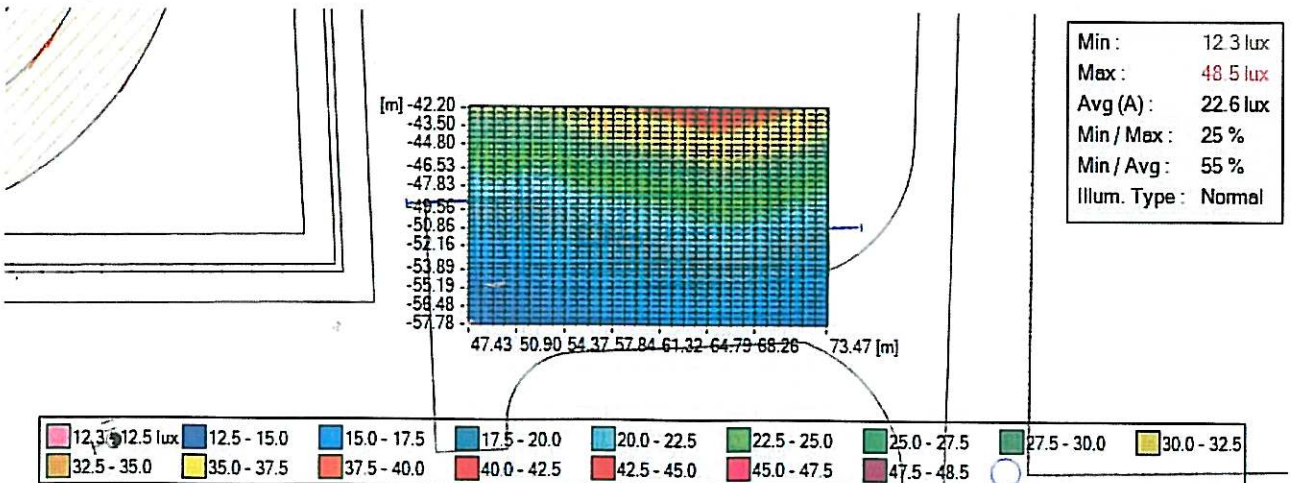
Values



Isolevel



Shading



## 8. Grids

### 8.1. Suprafata totala

#### General

Type :Grid rectangular XY

Use Exclusion : Use exclusion

En : ☒

Colour :  

#### Geometry

##### Origin

X :  Y :  Z :  m

##### Rotation

X :  Y :  Z :  °

##### Dimension

Count X :	<input type="text" value="134"/>	Count Y :	<input type="text" value="130"/>	
Spacing X :	<input type="text" value="2.00"/>	Spacing Y :	<input type="text" value="2.02"/>	m
Size X :	<input type="text" value="266.00"/>	Size Y :	<input type="text" value="260.00"/>	m

### 8.2. Zona rezervoare

#### General

Type :Grid rectangular XY

Use Exclusion : Use exclusion

En : ☒

Colour :  

#### Geometry

##### Origin

X :  Y :  Z :  m

##### Rotation

X :  Y :  Z :  °

##### Dimension

Count X :	<input type="text" value="40"/>	Count Y :	<input type="text" value="91"/>	
Spacing X :	<input type="text" value="1.54"/>	Spacing Y :	<input type="text" value="1.18"/>	m
Size X :	<input type="text" value="60.00"/>	Size Y :	<input type="text" value="106.00"/>	m



### 8.3. Zona rezervoare - 2

#### General

Type :Grid rectangular XY

Use Exclusion : Use exclusion

En : ☒

Colour : 

#### Geometry

##### Origin

X :  Y :  Z :  m

##### Rotation

X :  Y :  Z :  °

##### Dimension

Count X :	<input type="text" value="38"/>	Count Y :	<input type="text" value="54"/>	
Spacing X :	<input type="text" value="1.01"/>	Spacing Y :	<input type="text" value="1.07"/>	m
Size X :	<input type="text" value="37.21"/>	Size Y :	<input type="text" value="56.85"/>	m


### 8.4. Zona rezervoare - 3

#### General

Type :Grid rectangular XY

Use Exclusion : Use exclusion

En : ☒

Colour : 

#### Geometry

##### Origin

X :  Y :  Z :  m

##### Rotation

X :  Y :  Z :  °

##### Dimension

Count X :	<input type="text" value="31"/>	Count Y :	<input type="text" value="37"/>	
Spacing X :	<input type="text" value="1.00"/>	Spacing Y :	<input type="text" value="1.00"/>	m
Size X :	<input type="text" value="30.00"/>	Size Y :	<input type="text" value="36.00"/>	m

Autoritatea Națională de Reglementare  
în Domeniul Energiei

**COSAREANU MARIANA**  
CNP: 2661112182812

*Mariana Cosareanu*

Verificator de proiecte de instalații electrice

Autorizație nr. 526 / 2014

valabilă până la data de : 16.05.2019

## 8.5. Alee (1)

### General

Type :Grid rectangular XY

Use Exclusion : -

En : ☒

Colour : ■

### Geometry

#### Origin

X : -68.81

Y : -73.54

Z : 0.00 m

#### Rotation

X : 0.0

Y : 0.0

Z : -8.0 °

#### Dimension

Count X : 156

Count Y : 4

Spacing X : 0.52

Spacing Y : 0.99 m

Size X : 79.95

Size Y : 2.97 m

## 8.6. Alee (2)

### General

Type :Grid rectangular XY

Use Exclusion : -

En : ☒

Colour : ■

### Geometry

#### Origin

X : 79.22

Y : -67.03

Z : 0.00 m

#### Rotation

X : 0.0

Y : 0.0

Z : -0.5 °

#### Dimension

Count X : 4

Count Y : 164

Spacing X : 1.00

Spacing Y : 1.00 m

Size X : 3.00

Size Y : 163.00 m



## 8.7. Alee (4)

### General

Type :Grid rectangular XY

Use Exclusion : -

En : ☒

Colour : 

### Geometry

#### Origin

X :  Y :  Z :  m

#### Rotation

X :  Y :  Z :  °

#### Dimension

Count X :  Count Y :   
 Spacing X :  Spacing Y :  m  
 Size X :  Size Y :  m

## 8.8. Alee (5)

### General

Type :Grid rectangular XY

Use Exclusion : -

En : ☒

Colour : 

### Geometry

#### Origin

X :  Y :  Z :  m

#### Rotation

X :  Y :  Z :  °

#### Dimension

Count X :  Count Y :   
 Spacing X :  Spacing Y :  m  
 Size X :  Size Y :  m



### 8.9. Alee (6)

#### General

Type :Grid rectangular XY

Use Exclusion : -

En : ☒

Colour : 

#### Geometry

##### Origin

X :  Y :  Z :  m

##### Rotation

X :  Y :  Z :  °

##### Dimension

Count X :  Count Y :   
 Spacing X :  Spacing Y :  m  
 Size X :  Size Y :  m

### 8.10. Alee (7)

#### General

Type :Grid rectangular XY

Use Exclusion : -

En : ☒

Colour : 

#### Geometry

##### Origin

X :  Y :  Z :  m

##### Rotation

X :  Y :  Z :  °

##### Dimension

Count X :  Count Y :   
 Spacing X :  Spacing Y :  m  
 Size X :  Size Y :  m



## 8.11. Gara lansare

### General

Type :Grid rectangular XY

Use Exclusion : -

En : ☒

Colour : 

### Geometry

#### Origin

X : -56.23

Y : 82.41

Z : 0.00 m

#### Rotation

X : 0.0

Y : 0.0

Z : 0.0 °

#### Dimension

Count X : 31

Count Y : 37

Spacing X : 0.79

Spacing Y : 0.39 m

Size X : 23.67

Size Y : 14.13 m

## 8.12. Statie pompe

### General

Type :Grid rectangular XY

Use Exclusion : -

En : ☒

Colour : 

### Geometry

#### Origin

X : 6.84

Y : 81.72

Z : 0.00 m

#### Rotation

X : 0.0

Y : 0.0

Z : 0.0 °

#### Dimension

Count X : 40

Count Y : 13

Spacing X : 1.00

Spacing Y : 1.00 m

Size X : 39.00

Size Y : 12.00 m



8.13. Gara primire

General

Type : Grid rectangular XY

Use Exclusion : -

En : ☒

Colour : 

Geometry

Origin

X :  Y :  Z :  m

Rotation

X :  Y :  Z :  °

Dimension

Count X :	<input type="text" value="31"/>	Count Y :	<input type="text" value="37"/>	
Spacing X :	<input type="text" value="0.87"/>	Spacing Y :	<input type="text" value="0.43"/>	m
Size X :	<input type="text" value="26.04"/>	Size Y :	<input type="text" value="15.58"/>	m

Autoritatea Națională de Reglementare  
în Domeniul Energiei

**COȘAREANU MARIANA**

**CNP: 2661112182812**



Verificator de proiecte de instalații electrice

Autorizație nr. 526 / 2014

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