

DATE: 31 January 2025
DESIGNER: Marcin Kuzio
PROJECT No: 23039
PROJECT NAME: LDA - Lands at Teagasc, Kinsealy

**LIGHTING
REALITY**

Outdoor Lighting Report

Layout Report

General Data

Dimensions in Metres Angles in Degrees

Calculation Grids

ID	Grid Name	X	Y	X' Length	Y' Length	X' Spacing	Y' Spacing
1	Grid 1	-629.37	-31.12	82.00	119.84	1.46	1.50
2	Grid 2	-544.76	-30.14	58.94	118.22	1.47	1.46
3	Grid 3	-482.77	-30.76	77.72	120.12	1.49	1.48
4	Grid 4	-399.89	-48.48	74.00	119.75	1.48	1.50
5	Grid 5	-530.93	-152.33	83.56	121.26	1.49	1.30
6	Grid 6	-446.46	-157.25	80.05	109.07	1.48	1.49
7	South Entrance	-533.31	-239.34	53.78	97.86	1.49	1.48
8	Grid 8	-447.71	-49.28	48.15	20.56	1.46	1.47
9	Grid 9	-371.42	-159.51	91.73	211.63	1.48	1.49
10	Grid 10	-644.68	-231.07	111.37	31.87	1.47	1.00

Luminaires

Luminaire A Data

Supplier	
Type	P852K-24-A2A-727-HE-0450-21W
Lamp(s)	727P
Lamp Flux (klm)	3.28
File Name	P852K-24-A2A-727-HE-0450-21W.ies
Maintenance Factor	0.78
Imax70,80,90(cd/klm)	371.8, 124.5, 0.5
No. in Project	92

Luminaire C Data

Supplier	C U Phosco
Type	P852K-12-C1-WW-CA0550-21W
Lamp(s)	730C WW
Lamp Flux (klm)	2.61
File Name	P852K-12-C1-WW-CA0550-21W.ies
Maintenance Factor	0.78
Imax70,80,90(cd/klm)	490.8, 74.7, 0.0
No. in Project	1



Luminaire D Data

Supplier	C U Phosco
Type	P852K-12-F2-WW-CA0550-21W
Lamp(s)	730C WW
Lamp Flux (klm)	2.51
File Name	P852K-12-F2-WW-CA0550-21W.ies
Maintenance Factor	0.78
Imax70,80,90(cd/klm)	750.5, 280.0, 34.0
No. in Project	1



Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	-515.37	-20.59	6.00	344.00	0.00	0.00	0.50			
2	A	-571.86	11.00	6.00	331.00	0.00	0.00	0.50			
4	A	-469.89	-36.89	6.00	72.00	0.00	0.00	0.50			
5	A	-541.96	-16.87	6.00	263.00	0.00	0.00	0.50			
7	A	-503.10	-135.49	6.00	0.00	0.00	0.00	0.50			
8	A	-480.59	-148.27	6.00	82.00	0.00	0.00	0.50			
9	A	-469.45	-137.02	6.00	263.00	0.00	0.00	0.50			
10	A	-583.36	-8.29	6.00	358.00	0.00	0.00	0.50			
13	D	-429.68	72.94	6.00	45.00	0.00	0.00	0.50			
14	A	-535.48	64.08	6.00	259.00	0.00	0.00	0.50			
15	A	-494.01	73.05	6.00	312.00	0.00	0.00	0.50			
16	A	-475.93	73.74	6.00	252.00	0.00	0.00	0.50			
17	A	-450.84	68.26	6.00	249.00	0.00	0.00	0.50			
18	A	-507.25	42.34	6.00	187.00	0.00	0.00	0.50			
19	A	-509.04	-1.10	6.00	184.00	0.00	0.00	0.50			
20	A	-496.45	-47.97	6.00	352.00	0.00	0.00	0.50			
21	A	-573.55	-18.72	6.00	72.00	0.00	0.00	0.50			
22	A	-508.48	25.06	6.00	186.00	0.00	0.00	0.50			
24	A	-500.26	-95.54	6.00	0.00	0.00	0.00	0.50			
25	A	-570.25	38.21	6.00	349.00	0.00	0.00	0.50			
26	A	-558.21	57.85	6.00	143.00	0.00	0.00	0.50			
27	A	-582.94	60.83	6.00	21.00	0.00	0.00	0.50			
28	A	-570.34	71.26	6.00	201.00	0.00	0.00	0.50			
29	A	-610.43	-15.03	6.00	262.00	0.00	0.00	0.50			
30	C	-625.04	-24.40	7.00	180.00	0.00	0.00	1.00			
31	A	-501.40	-114.04	6.00	0.00	0.00	0.00	0.50			
32	A	-416.49	62.97	6.00	270.00	0.00	0.00	0.50			
33	A	-497.99	-69.33	6.00	0.00	0.00	0.00	0.50			
35	A	-601.57	-9.23	6.00	275.00	0.00	0.00	0.50			
30	A	-395.69	-52.17	6.00	83.00	0.00	0.00	0.50			
37	A	-582.00	37.06	6.00	0.00	0.00	0.00	0.50			
34	A	-378.09	54.51	6.00	263.00	0.00	0.00	0.50			
42	A	-397.04	60.99	6.00	249.00	0.00	0.00	0.50			
45	A	-353.74	51.09	6.00	262.00	0.00	0.00	0.50			
46	A	-332.69	40.65	6.00	225.00	0.00	0.00	0.50			
48	A	-333.27	13.79	6.00	179.00	0.00	0.00	0.50			

Layout Continued

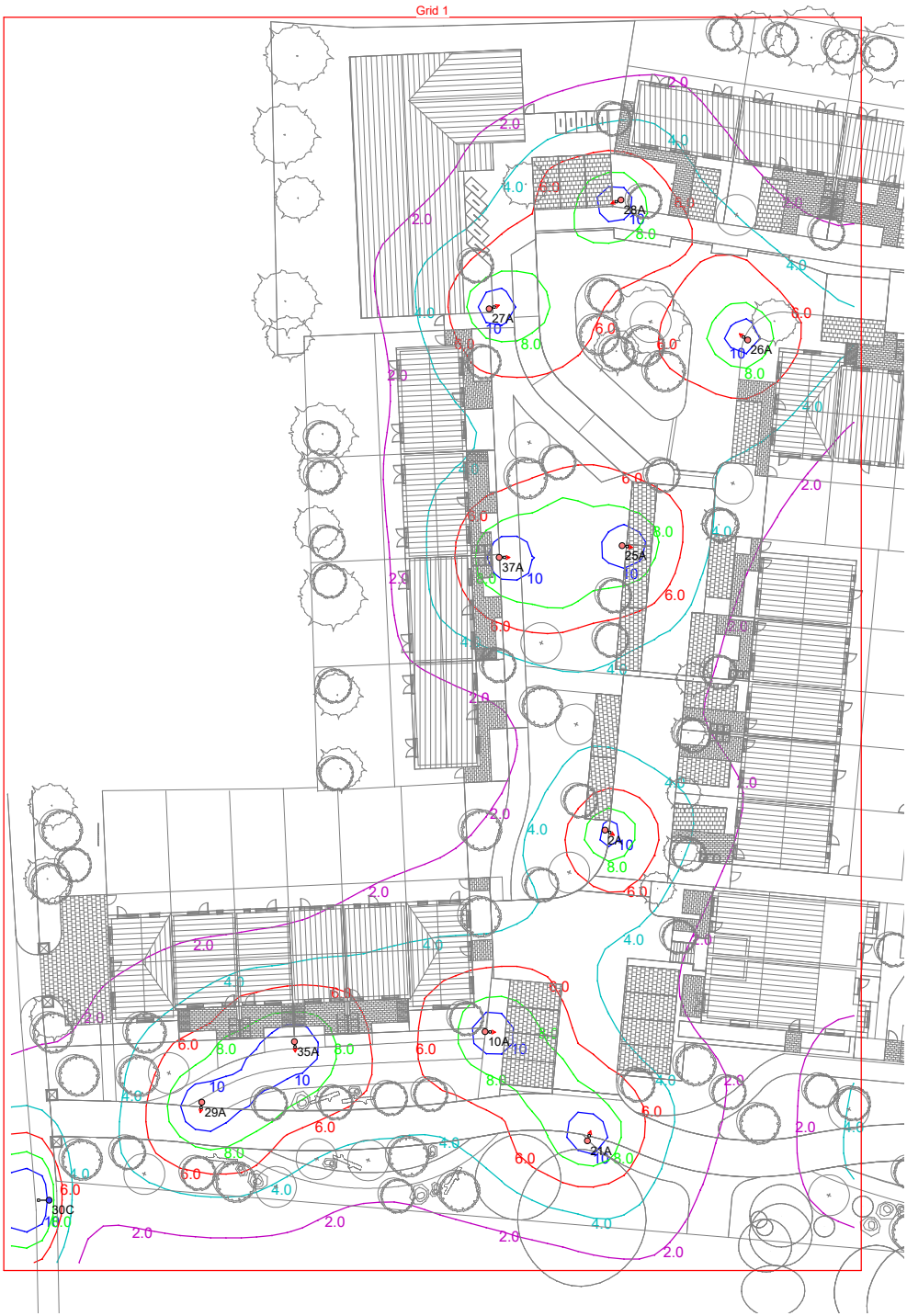
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
49	A	-335.24	-14.44	6.00	177.00	0.00	0.00	0.50			
50	A	-335.55	-38.97	6.00	166.00	0.00	0.00	0.50			
51	A	-365.92	-38.32	6.00	264.00	0.00	0.00	0.50			
53	A	-388.98	-33.55	6.00	203.00	0.00	0.00	0.50			
55	A	-387.39	-6.28	6.00	180.00	0.00	0.00	0.50			
56	A	-384.39	17.09	6.00	180.00	0.00	0.00	0.50			
57	A	-385.26	36.90	6.00	178.00	0.00	0.00	0.50			
61	A	-450.05	39.80	6.00	353.00	0.00	0.00	0.50			
62	A	-434.98	47.78	6.00	184.00	0.00	0.00	0.50			
63	A	-448.78	19.47	6.00	0.00	0.00	0.00	0.50			
64	A	-453.52	-1.87	6.00	345.00	0.00	0.00	0.50			
65	A	-454.54	-16.83	6.00	308.00	0.00	0.00	0.50			
66	A	-446.65	-27.70	6.00	260.00	0.00	0.00	0.50			
67	A	-420.34	-143.99	6.00	265.00	0.00	0.00	0.50			
68	A	-430.54	-132.79	6.00	168.00	0.00	0.00	0.50			
69	A	-399.32	-145.80	6.00	261.00	0.00	0.00	0.50			
71	A	-387.46	-135.84	6.00	348.00	0.00	0.00	0.50			
72	A	-380.81	-117.05	6.00	355.00	0.00	0.00	0.50			
73	A	-380.93	-95.91	6.00	356.00	0.00	0.00	0.50			
74	A	-381.81	-73.30	6.00	356.00	0.00	0.00	0.50			
75	A	-383.48	-58.01	6.00	83.00	0.00	0.00	0.50			
76	A	-414.85	-55.25	6.00	84.00	0.00	0.00	0.50			
78	A	-439.47	-51.73	6.00	34.00	0.00	0.00	0.50			
79	A	-442.62	-64.57	6.00	355.00	0.00	0.00	0.50			
77	A	-505.84	-172.53	6.00	4.00	0.00	0.00	0.50			
81	A	-439.55	-84.42	6.00	352.00	0.00	0.00	0.50			
83	A	-463.16	-48.46	6.00	90.00	0.00	0.00	0.50			
84	A	-493.63	-25.34	6.00	84.00	0.00	0.00	0.50			
85	A	-513.30	62.35	6.00	333.00	0.00	0.00	0.50			
90	A	-424.02	-30.02	6.00	265.00	0.00	0.00	0.50			
91	A	-448.99	-144.49	6.00	90.00	0.00	0.00	0.50			
92	A	-442.78	-110.41	6.00	351.00	0.00	0.00	0.50			
90	A	-504.66	-154.20	6.00	4.00	0.00	0.00	0.50			
91	A	-510.55	-197.56	6.00	333.00	0.00	0.00	0.50			
92	A	-529.00	-215.72	6.00	300.00	0.00	0.00	0.50			
72	A	-606.50	-209.87	6.00	266.00	0.00	0.00	0.50			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
79	A	-399.54	-50.22	6.00	90.00	0.00	0.00	0.50			
80	A	-344.78	-66.13	6.00	315.00	0.00	0.00	0.50			
81	A	-359.41	-81.71	6.00	326.00	0.00	0.00	0.50			
82	A	-370.62	-141.35	6.00	342.00	0.00	0.00	0.50			
83	A	-368.72	-106.60	6.00	355.00	0.00	0.00	0.50			
84	A	-333.17	-50.94	6.00	322.00	0.00	0.00	0.50			
85	A	-323.07	-28.35	6.00	327.00	0.00	0.00	0.50			
86	A	-333.45	-0.79	6.00	340.00	0.00	0.00	0.50			
87	A	-305.27	47.86	6.00	270.00	0.00	0.00	0.50			
88	A	-361.24	-50.46	6.00	263.00	0.00	0.00	0.50			
84	A	-547.22	-214.38	6.00	266.00	0.00	0.00	0.50			
85	A	-570.46	-212.56	6.00	266.00	0.00	0.00	0.50			
87	A	-589.11	-211.06	6.00	266.00	0.00	0.00	0.50			
89	A	-623.50	-208.53	6.00	276.00	0.00	0.00	0.50			
87	A	-328.30	22.91	6.00	17.00	0.00	0.00	0.50			
88	A	-491.37	-164.51	6.00	168.00	0.00	0.00	0.50			
89	A	-492.76	-184.91	6.00	175.00	0.00	0.00	0.50			
90	A	-505.00	-214.97	6.00	149.00	0.00	0.00	0.50			
91	A	-537.62	-228.69	6.00	86.00	0.00	0.00	0.50			
92	A	-567.97	-226.26	6.00	86.00	0.00	0.00	0.50			
93	A	-595.82	-224.24	6.00	86.00	0.00	0.00	0.50			
94	A	-621.52	-222.17	6.00	86.00	0.00	0.00	0.50			

Horizontal Illuminance (lux)

Grid 1

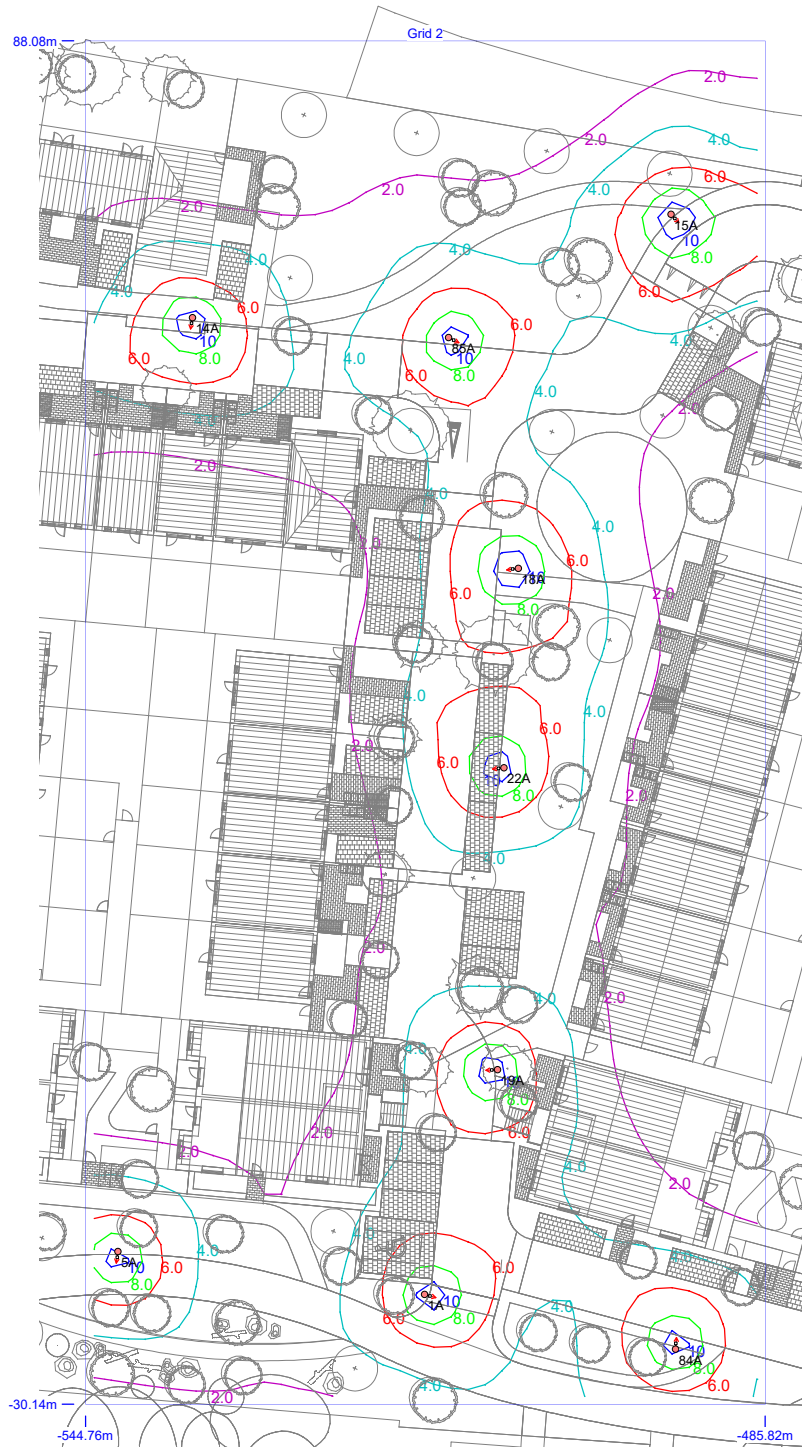


Results

Eav	5.62
Emin	1.42
Emax	12.66
Emin/Emax	0.11
Emin/Eav	0.25

Horizontal Illuminance (lux)

Grid 2



Results

Eav	5.02
Emin	2.07
Emax	11.40
Emin/Emax	0.18
Emin/Eav	0.41

Horizontal Illuminance (lux)

Grid 3



Results

Eav	5.09
Emin	1.58
Emax	12.60
Emin/Emax	0.13
Emin/Eav	0.31

Horizontal Illuminance (lux)

Grid 4



Results

Eav	5.77
Emin	1.61
Emax	14.32
Emin/Emax	0.11
Emin/Eav	0.28

Horizontal Illuminance (lux)

Grid 5



Results

Eav	5.21
Emin	2.17
Emax	13.06
Emin/Emax	0.17
Emin/Eav	0.42

Horizontal Illuminance (lux)

Grid 6

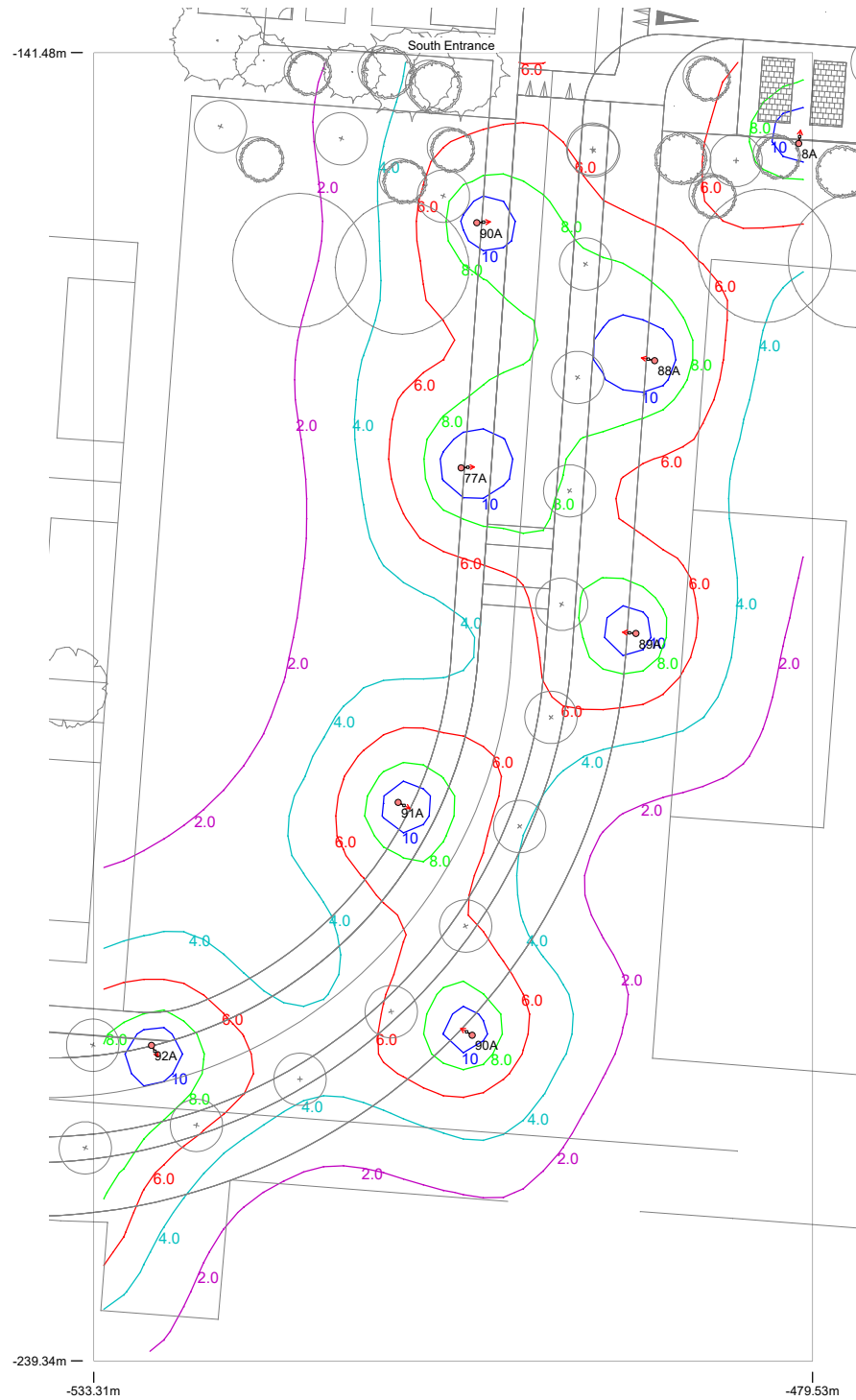


Results

Eav	6.35
Emin	1.37
Emax	18.70
Emin/Emax	0.07
Emin/Eav	0.22

Horizontal Illuminance (lux)

South Entrance

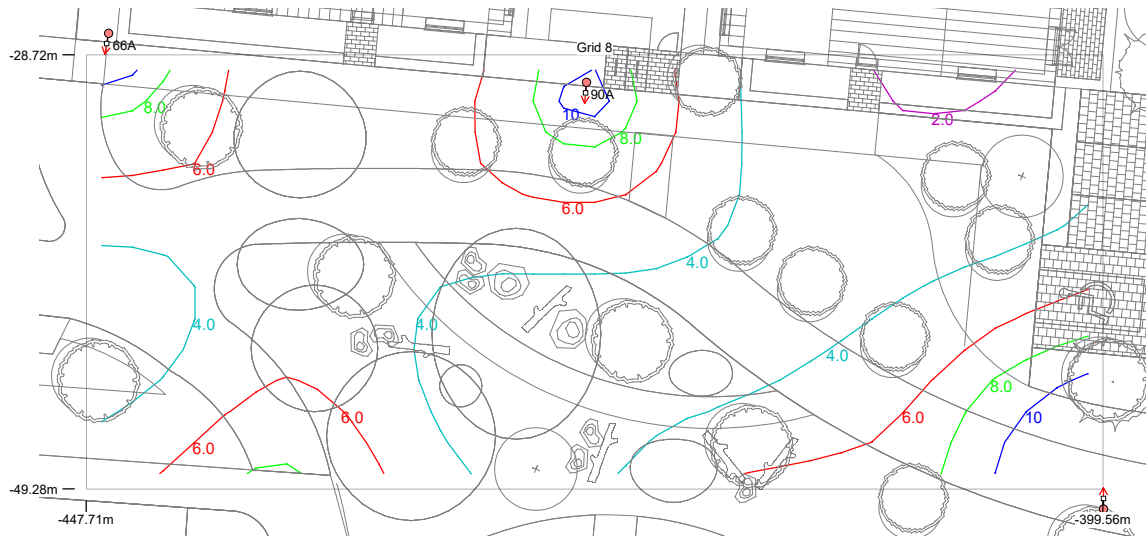


Results

Eav	6.75
Emin	2.56
Emax	13.60
Emin/Emax	0.19
Emin/Eav	0.38

Horizontal Illuminance (lux)

Grid 8

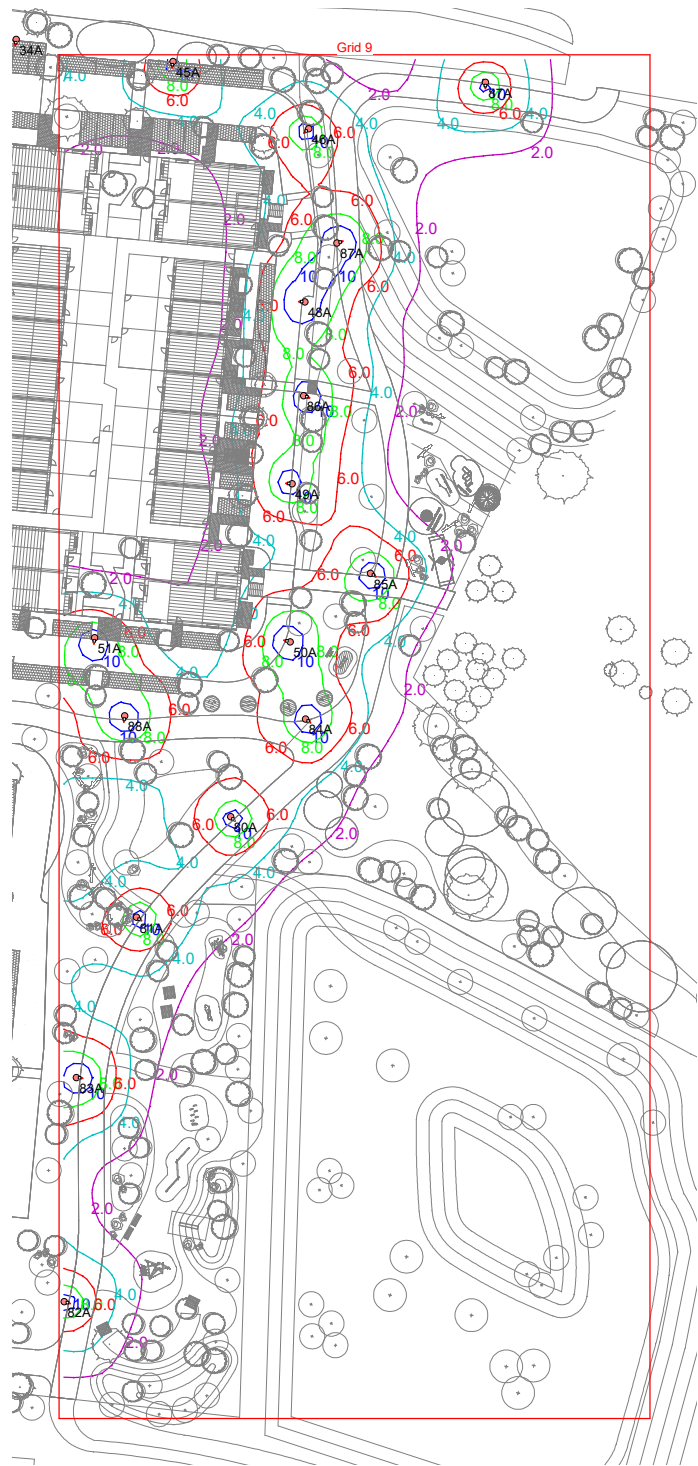


Results

Eav	5.06
Emin	2.10
Emax	11.09
Emin/Emax	0.19
Emin/Eav	0.41

Horizontal Illuminance (lux)

Grid 9

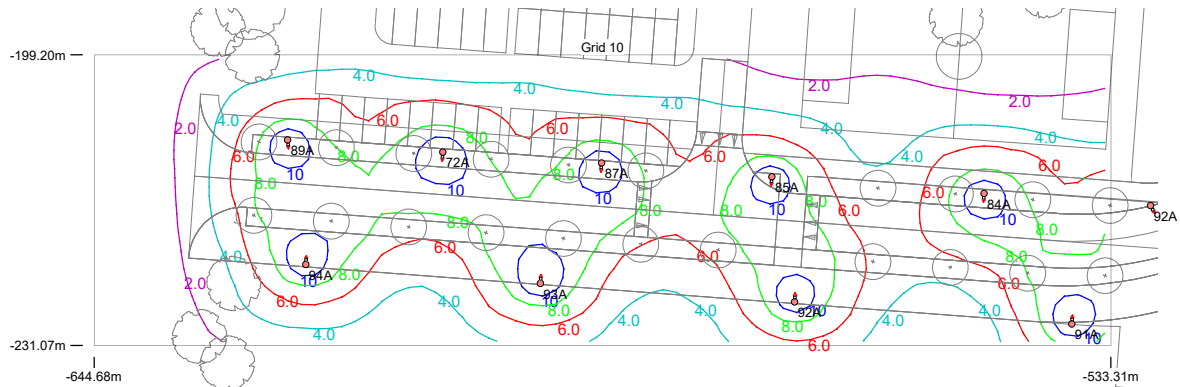


Results

Eav	5.34
Emin	1.16
Emax	12.55
Emin/Emax	0.09
Emin/Eav	0.22

Horizontal Illuminance (lux)

Grid 10



Results

Eav	7.52
Emin	2.61
Emax	13.38
Emin/Emax	0.19
Emin/Eav	0.35