

DATE: 26 January 2022
DESIGNER: Brian Smith
PROJECT No: ASD-SL-SE-2021-2022-011
PROJECT NAME: Ashford Road, Sellindge, Kent



BS5489-1:2020
Envorinmental Zone E1/E2
Side Roads
Lighting CClass P5
Eav = 3.00 to 4.50
Emin = 0.60

Outdoor Lighting Report

PREPARED BY: ASD Lighting PLC
Mangham Road
Barbot Hall Industrial Estate
Rotherham
S61 4RJ
e-mail: bsmith@asdlighting.com

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	610677.59	137796.86	320.00	60.00	1.50	1.50
2	Grid 2	610816.00	137951.00	250.00	45.00	1.50	1.50
3	Grid 3	610884.57	138052.10	75.00	30.00	1.50	1.50
4	Grid 4	610923.00	138067.01	135.00	135.00	1.50	1.50
5	Grid 5	610902.80	137960.00	120.00	90.00	1.50	1.50
6	Grid 6	610691.00	137858.17	75.00	69.00	1.50	1.50
7	Grid 7	610820.00	138018.00	30.00	30.00	1.50	1.50
8	Grid 8	610884.95	138173.00	30.00	30.00	1.50	1.50
9	Grid 9	610894.40	138155.46	21.00	12.00	1.50	1.50

Luminaires

Luminaire A Data

Supplier	
Type	HWD-#4K12 500-S4-CLO Gen 5
Lamp(s)	LED
LampFlux(klm)/Colour	2.52 4000/72
File Name	HWD-#4K12 500-S4-CLO (18W).ldt
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	540.6, 56.3, 0.1
No. in Project	51

Luminaire B Data

Supplier	
Type	HWD-#4K12 400-S4-CLO Gen 5
Lamp(s)	LED
LampFlux(klm)/Colour	2.09 4000/72
File Name	HWD-#4K12 400-S4-CLO (15W).ldt
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	541.1, 60.3, 0.0
No. in Project	26

Luminaire C Data

Supplier	
Type	HWD-#4LED1220-S4 Osram Rev 1
Lamp(s)	LED
LampFlux(klm)/Colour	1.10 4000/72
File Name	HWD-#4LED1220-S4-CLO (8w).ldt
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	544.1, 81.3, 0.0
No. in Project	18

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	610666.47	137836.88	6.00	108.00	0.00	0.00	0.40			
2	A	610687.74	137855.57	6.00	287.00	0.00	0.00	0.40			
3	A	610713.62	137863.14	6.00	289.00	0.00	0.00	0.40			
4	A	610742.10	137862.41	6.00	120.00	0.00	0.00	0.40			
5	A	610757.81	137894.46	6.00	345.00	0.00	0.00	0.40			
6	A	610778.85	137885.04	6.00	81.00	0.00	0.00	0.40			
7	A	610760.43	137879.64	6.00	146.00	0.00	0.00	0.40			
8	A	610765.32	137923.23	6.00	194.00	0.00	0.00	0.40			
9	A	610751.85	137934.99	6.00	1.00	0.00	0.00	0.40			
10	A	610761.42	137955.35	6.00	316.00	0.00	0.00	0.40			
11	A	610787.65	137972.54	6.00	305.00	0.00	0.00	0.40			
12	A	610814.63	137991.56	6.00	306.00	0.00	0.00	0.40			
13	A	610833.94	137997.58	6.00	144.00	0.00	0.00	0.40			
14	A	610852.51	138020.09	6.00	145.00	0.00	0.00	0.40			
15	B	610831.56	137979.97	6.00	50.00	0.00	0.00	0.40			
16	A	610855.53	138040.75	6.00	330.00	0.00	0.00	0.40			
17	C	610832.35	138029.97	6.00	58.00	0.00	0.00	0.40			
18	A	610873.10	138060.99	6.00	304.00	0.00	0.00	0.40			
19	A	610889.68	138082.56	6.00	182.00	0.00	0.00	0.40			
20	A	610878.87	138110.80	6.00	1.00	0.00	0.00	0.40			
21	A	610882.07	138141.69	6.00	346.00	0.00	0.00	0.40			
22	A	610890.10	138166.95	6.00	332.00	0.00	0.00	0.40			
23	C	610895.89	138189.13	6.00	344.00	0.00	0.00	0.40			
24	A	610919.76	138168.07	6.00	227.00	0.00	0.00	0.40			
25	A	610923.85	138150.32	6.00	50.00	0.00	0.00	0.40			
26	A	610944.93	138149.56	6.00	225.00	0.00	0.00	0.40			
27	A	610952.74	138125.93	6.00	49.00	0.00	0.00	0.40			
28	A	610973.40	138125.61	6.00	224.00	0.00	0.00	0.40			
29	A	610980.30	138102.83	6.00	47.00	0.00	0.00	0.40			
30	A	610999.10	138104.26	6.00	225.00	0.00	0.00	0.40			
31	A	611006.85	138080.53	6.00	44.00	0.00	0.00	0.40			
32	A	611027.67	138080.15	6.00	226.00	0.00	0.00	0.40			
33	A	611029.19	138061.62	6.00	46.00	0.00	0.00	0.40			
34	A	611050.57	138058.27	6.00	227.00	0.00	0.00	0.40			
35	A	611073.10	138029.86	6.00	188.00	0.00	0.00	0.40			
36	A	611053.44	138041.46	6.00	52.00	0.00	0.00	0.40			

Layout Continued

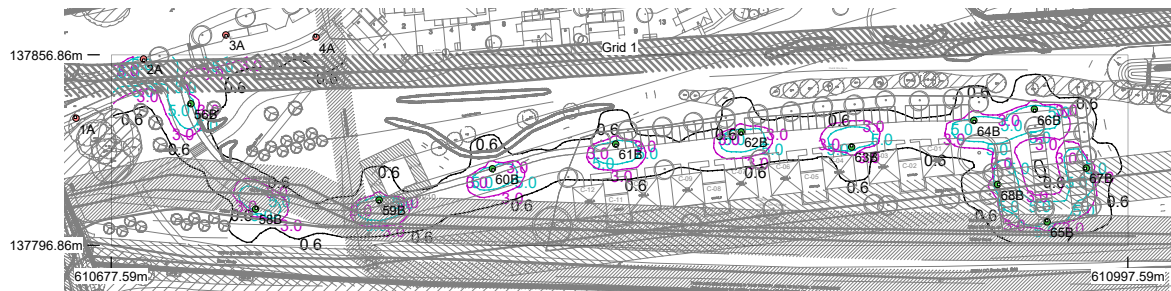
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
37	A	611075.70	137998.97	6.00	180.00	0.00	0.00	0.40			
38	A	611064.49	137995.61	6.00	0.00	0.00	0.00	0.40			
39	A	611071.41	137968.81	6.00	178.00	0.00	0.00	0.40			
40	B	611050.83	137961.20	6.00	86.00	0.00	0.00	0.40			
41	A	611075.70	137938.42	6.00	187.00	0.00	0.00	0.40			
42	A	611069.16	137913.88	6.00	133.00	0.00	0.00	0.40			
43	A	611043.31	137904.12	6.00	97.00	0.00	0.00	0.40			
44	A	611012.36	137902.36	6.00	91.00	0.00	0.00	0.40			
45	A	610984.38	137899.73	6.00	90.00	0.00	0.00	0.40			
46	A	610970.31	137910.93	6.00	271.00	0.00	0.00	0.40			
47	A	610949.98	137905.99	6.00	274.00	0.00	0.00	0.40			
48	A	610934.28	137888.94	6.00	333.00	0.00	0.00	0.40			
49	A	610919.10	137872.35	6.00	61.00	0.00	0.00	0.40			
50	A	610904.45	137892.57	6.00	241.00	0.00	0.00	0.40			
51	A	610877.14	137904.51	6.00	277.00	0.00	0.00	0.40			
52	A	610846.35	137903.21	6.00	271.00	0.00	0.00	0.40			
53	A	610822.94	137899.54	6.00	280.00	0.00	0.00	0.40			
54	A	610793.53	137893.55	6.00	285.00	0.00	0.00	0.40			
55	A	610662.91	137847.58	6.00	285.00	0.00	0.00	0.40			
56	B	610702.65	137841.40	6.00	203.00	0.00	0.00	0.40			
57	C	610934.17	138177.10	6.00	313.00	0.00	0.00	0.40			
58	B	610722.98	137808.28	6.00	59.00	0.00	0.00	0.40			
59	B	610761.90	137811.12	6.00	275.00	0.00	0.00	0.40			
60	B	610797.60	137820.96	6.00	287.00	0.00	0.00	0.40			
61	B	610836.37	137828.80	6.00	273.00	0.00	0.00	0.40			
62	B	610875.78	137832.61	6.00	279.00	0.00	0.00	0.40			
63	B	610910.61	137827.82	6.00	96.00	0.00	0.00	0.40			
64	B	610949.06	137836.18	6.00	274.00	0.00	0.00	0.40			
65	B	610972.10	137804.29	6.00	96.00	0.00	0.00	0.40			
66	B	610968.08	137839.77	6.00	277.00	0.00	0.00	0.40			
67	B	610984.43	137821.21	6.00	200.00	0.00	0.00	0.40			
68	B	610956.49	137816.03	6.00	10.00	0.00	0.00	0.40			
69	B	610853.88	137976.66	6.00	251.00	0.00	0.00	0.40			
70	B	610887.07	137964.37	6.00	92.00	0.00	0.00	0.40			
71	B	610924.24	137963.56	6.00	88.00	0.00	0.00	0.40			
72	B	610962.16	137971.93	6.00	273.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
73	B	610994.41	137971.36	6.00	271.00	0.00	0.00	0.40			
74	B	611026.80	137972.83	6.00	269.00	0.00	0.00	0.40			
75	C	610909.77	138070.36	6.00	274.00	0.00	0.00	0.40			
76	C	610930.98	138064.27	6.00	92.00	0.00	0.00	0.40			
77	B	610946.04	138068.51	6.00	184.00	0.00	0.00	0.40			
78	B	610965.82	138176.09	6.00	256.00	0.00	0.00	0.40			
79	B	611005.13	138170.21	6.00	235.00	0.00	0.00	0.40			
80	C	610973.99	138161.15	6.00	357.00	0.00	0.00	0.40			
81	B	611033.66	138146.46	6.00	235.00	0.00	0.00	0.40			
82	B	611051.44	138121.38	6.00	193.00	0.00	0.00	0.40			
83	C	611047.47	138089.11	6.00	151.00	0.00	0.00	0.40			
84	B	610917.11	137985.19	6.00	180.00	0.00	0.00	0.40			
85	C	610917.71	138019.66	6.00	163.00	0.00	0.00	0.40			
86	C	610931.27	138043.23	6.00	294.00	0.00	0.00	0.40			
87	C	610964.35	138040.16	6.00	89.00	0.00	0.00	0.40			
88	C	610991.66	138037.90	6.00	74.00	0.00	0.00	0.40			
89	C	611012.13	138035.05	6.00	216.00	0.00	0.00	0.40			
90	C	611005.52	138006.01	6.00	357.00	0.00	0.00	0.40			
91	C	611014.19	137980.18	6.00	182.00	0.00	0.00	0.40			
92	C	610721.76	137873.98	6.00	286.00	0.00	0.00	0.40			
93	C	610749.18	137885.19	6.00	159.00	0.00	0.00	0.40			
94	C	610749.58	137912.17	6.00	11.00	0.00	0.00	0.40			
95	C	610903.85	138161.29	6.00	93.00	0.00	0.00	0.40			

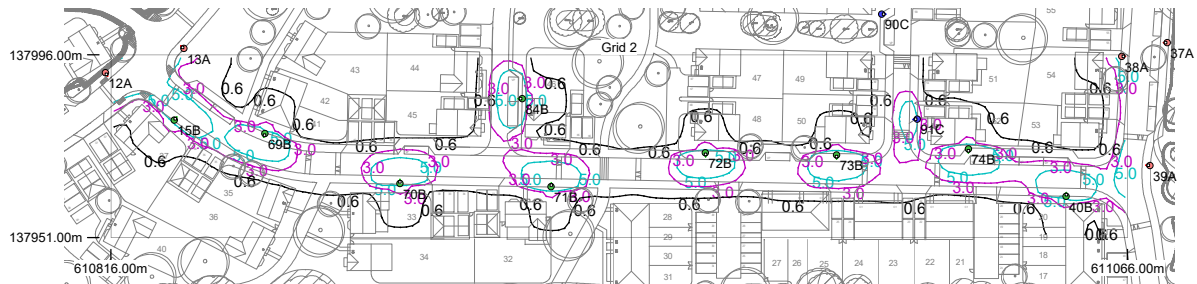
Horizontal Illuminance (lux)

Grid 1



Horizontal Illuminance (lux)

Grid 2

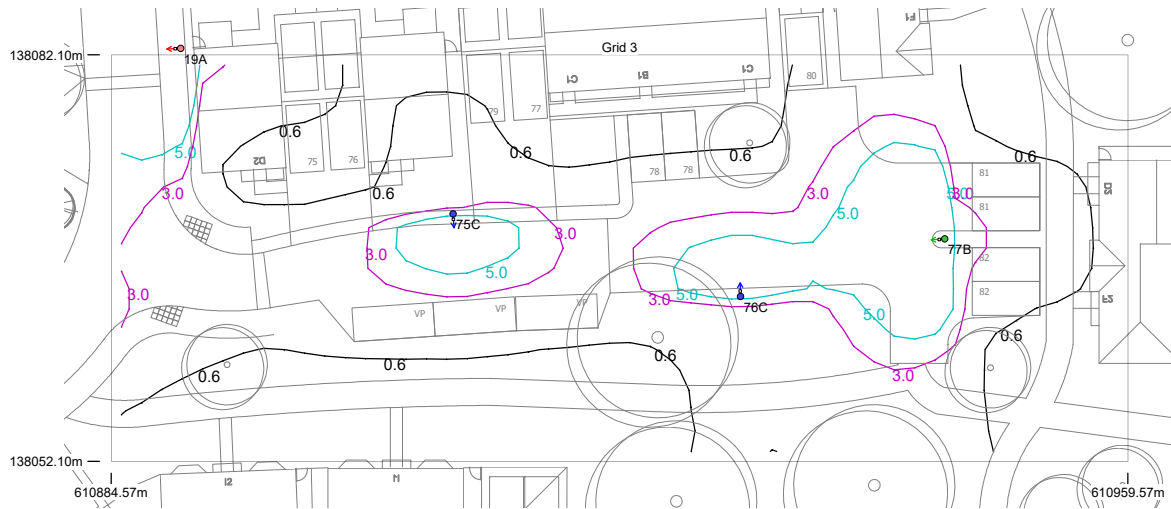


Results

Eav	4.35
Emin	0.69
Emax	15.25
Emin/Emax	0.05
Emin/Eav	0.16

Horizontal Illuminance (lux)

Grid 3

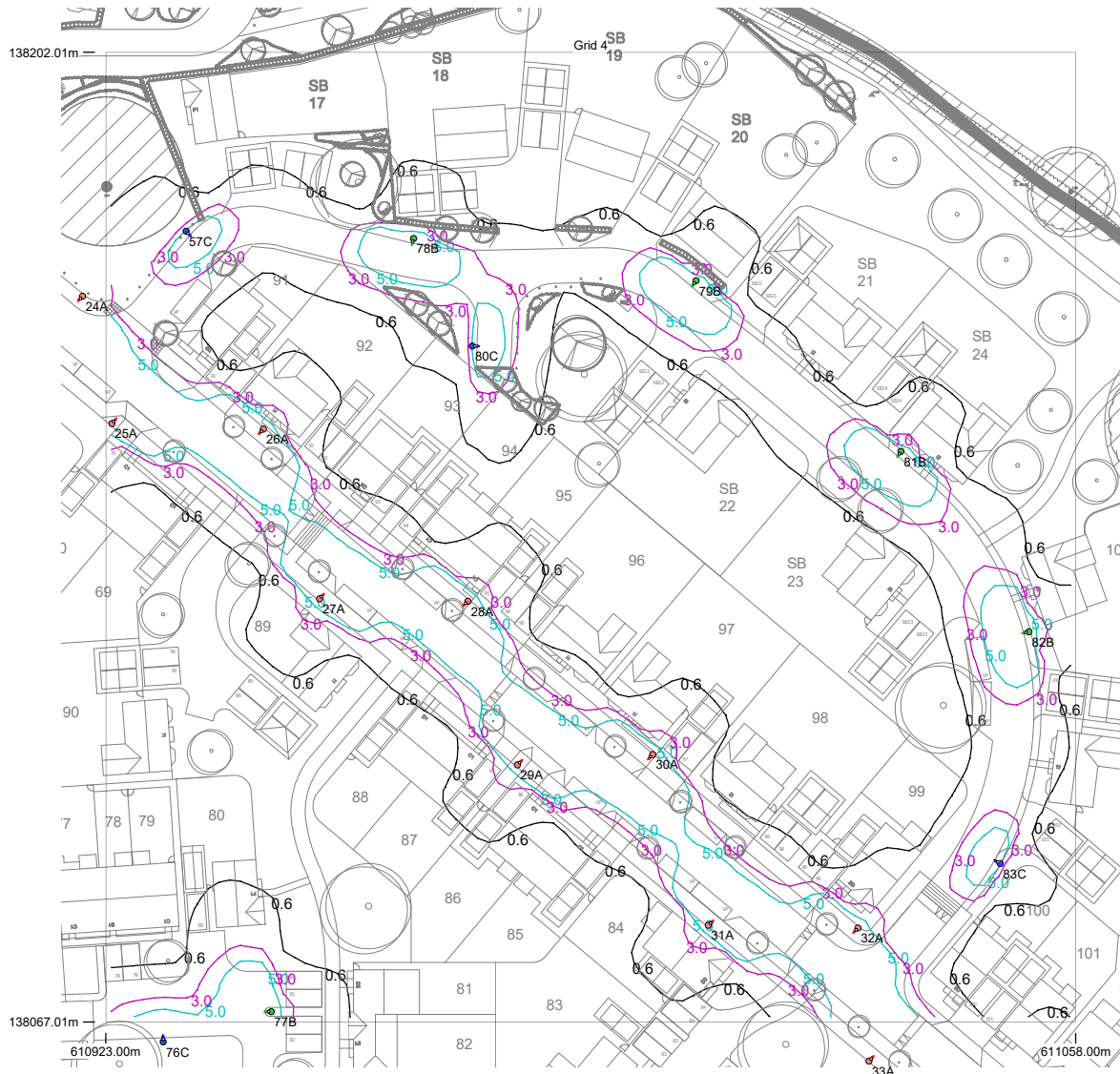


Results

Eav	4.07
Emin	0.74
Emax	15.45
Emin/Emax	0.05
Emin/Eav	0.18

Horizontal Illuminance (lux)

Grid 4



Results

Eav	4.15
Emin	0.77
Emax	15.13
Emin/Emax	0.05
Emin/Eav	0.18

Horizontal Illuminance (lux)

Grid 5

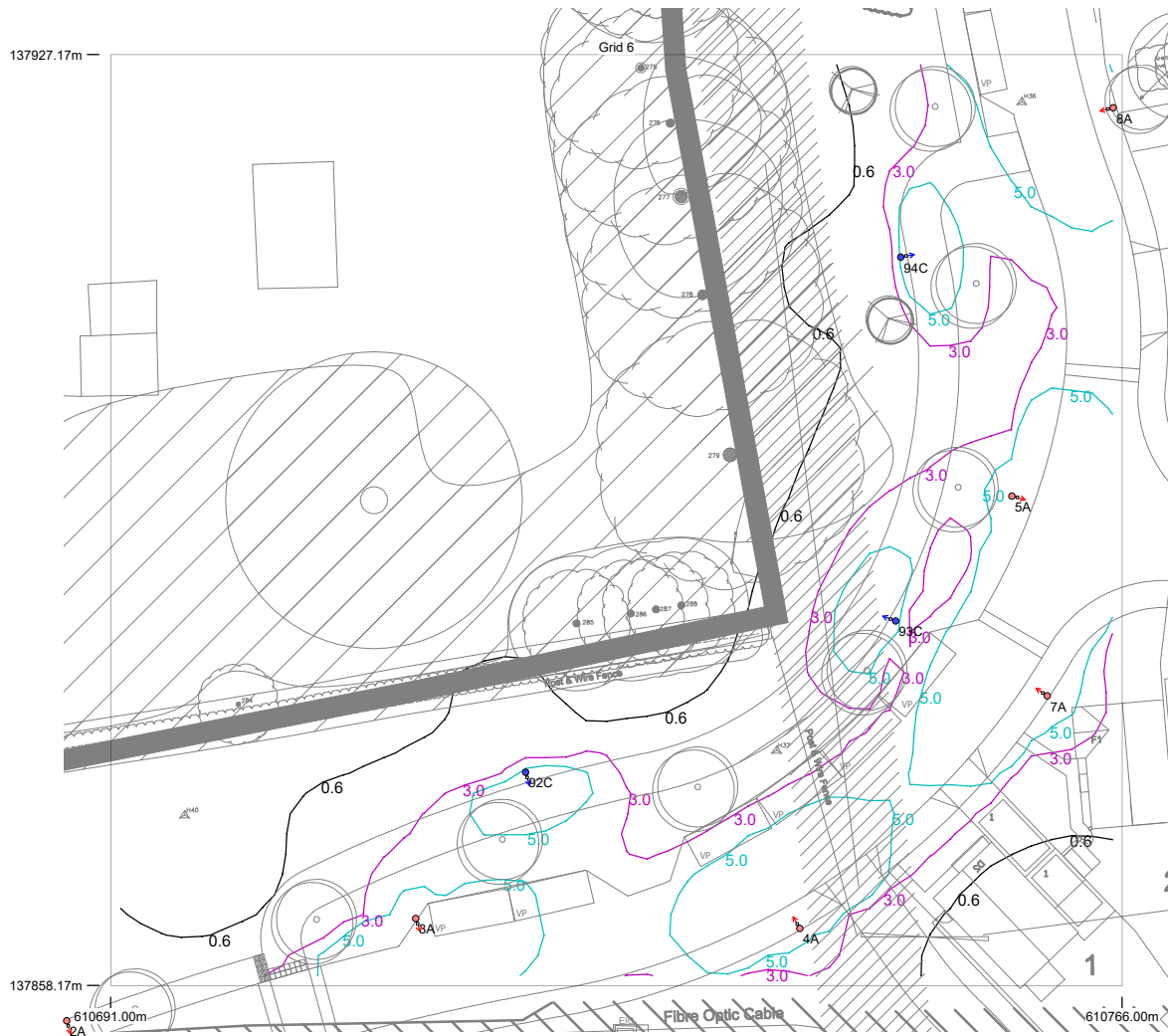


Results

Eav	3.46
Emin	0.71
Emax	15.04
Emin/Emax	0.05
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 6

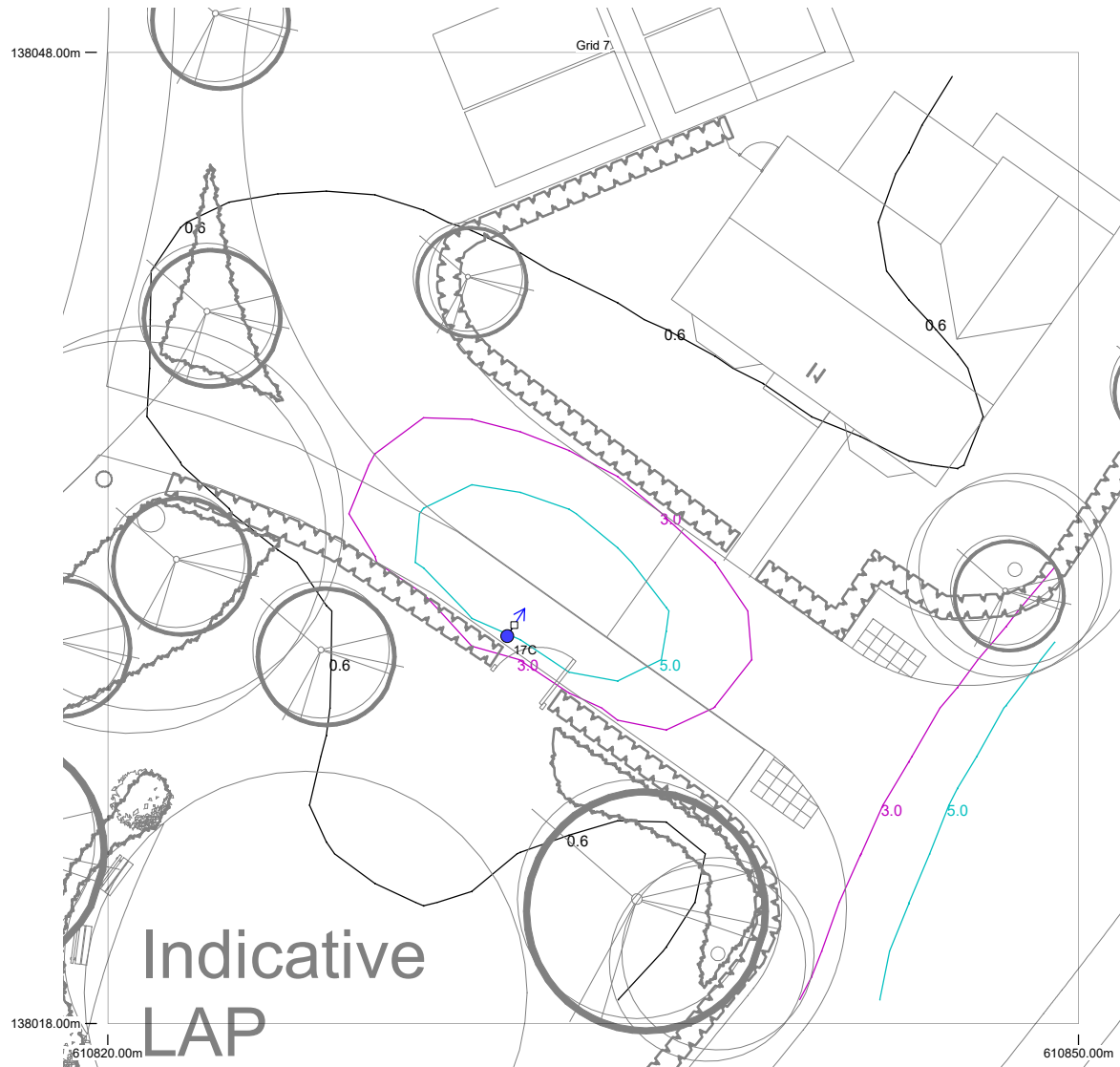


Results

Eav	3.91
Emin	0.68
E _{max}	8.05
Emin/E _{max}	0.08
Emin/Eav	0.17

Horizontal Illuminance (lux)

Grid 7

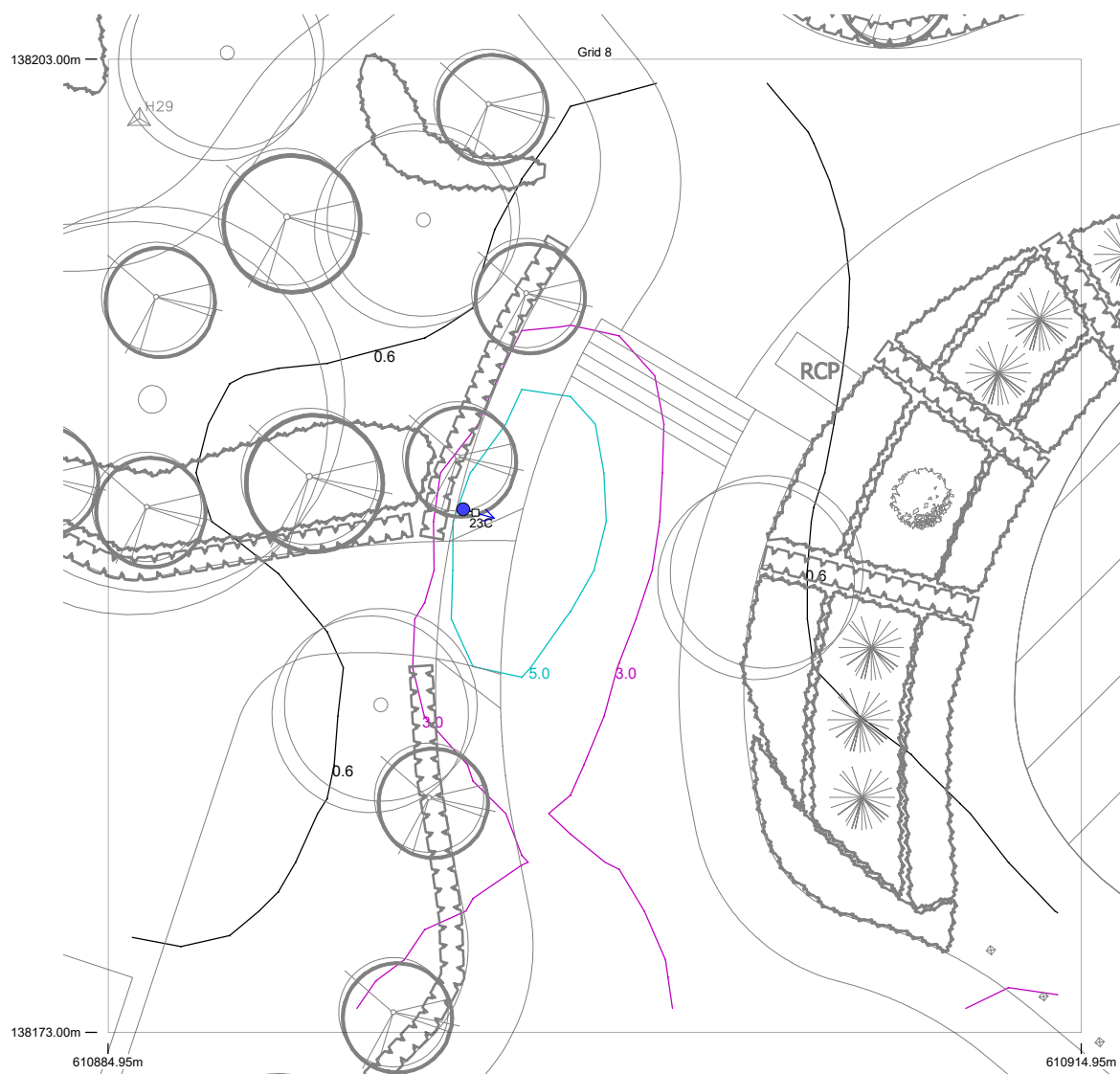


Results

Eav	4.45
Emin	1.87
Emax	7.91
Emin/Emax	0.24
Emin/Eav	0.42

Horizontal Illuminance (lux)

Grid 8

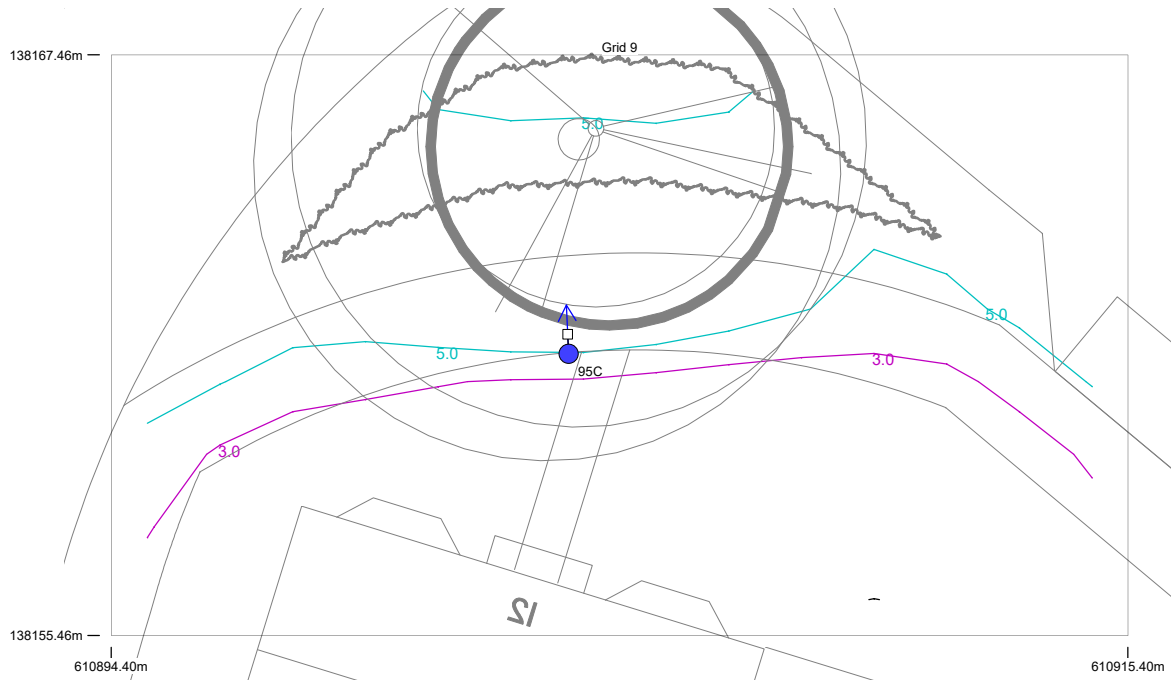


Results

Eav	3.54
Emin	1.25
Emax	7.83
Emin/Emax	0.16
Emin/Eav	0.35

Horizontal Illuminance (lux)

Grid 9



Results

Eav	5.05
Emin	2.22
Emax	8.29
Emin/Emax	0.27
Emin/Eav	0.44