

DATE: 29 July 2025
DESIGNER: Julian Joseph
PROJECT No: 100769-JLD-S38-DC-0003A
PROJECT NAME: S38 Desford Lane, Ratby

joseph lighting

This calculation report has been produced to demonstrate the pre-adoption illuminance and dimming values.

The lighting classes can be found at the top of each grid page.

Please also refer to document 100769-JLD-S38-DC-0001 for design information & drawing 100769-JLD-S38-DR-1301 & 1302 for construction detail.

Outdoor Lighting Report

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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 P4	450829.75	305355.76	79.26	80.60	1.50	1.49
2	Grid 2 P5	450981.20	305368.57	52.36	70.53	1.50	1.47
3	Grid 3 P5	451200.15	305346.04	70.76	57.91	1.47	1.48
4	Grid 4 P5	451144.20	305301.49	70.76	42.74	1.47	1.47
5	Grid 5 P5	451208.45	305237.85	70.76	43.94	1.47	1.46
6	Grid 6 P5	451115.71	305152.38	69.85	75.77	1.49	1.49
7	Grid 7 P5	451085.10	305230.57	107.13	69.71	1.49	1.48
8	Grid 8 P5	451017.05	305275.12	61.52	44.25	1.46	1.47

Luminaires



Luminaire A Data

Supplier	ASD Lighting
Type	HWD2-#27K16 700-M1-CLO Gen 7
Lamp(s)	LED
LampFlux(klm)/Colour	3.50 2700/72
File Name	HWD2-#27K16 700-M1-CLO (33W).ldt
Maintenance Factor	0.84
Imax70,80,90(cd/klm)	646.8, 131.8, 1.0
No. in Project	47



Luminaire E Data

Supplier	ASD Lighting
Type	HWD2-#27K16 700-M1-CLO Gen 7
Lamp(s)	LED
LampFlux(klm)/Colour	3.50 2700/72
File Name	HWD2-#27K16 700-M1-CLO (33W).ldt
Maintenance Factor	0.84
Imax70,80,90(cd/klm)	646.8, 131.8, 1.0
No. in Project	3

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
1	A	450879.19	305403.54	6.00	240.00	0.00	0.00	0.40	90%			
2	A	450888.64	305375.66	6.00	22.00	0.00	0.00	0.40	90%			
3	A	450910.60	305354.13	6.00	73.00	0.00	0.00	0.40	90%			
4	A	450943.29	305359.57	6.00	113.00	0.00	0.00	0.40	90%			
5	A	450971.70	305371.22	6.00	273.00	0.00	0.00	0.40	90%			
6	A	451009.94	305364.32	6.00	94.00	0.00	0.00	0.40	90%			
7	A	451044.99	305374.96	6.00	273.00	0.00	0.00	0.40	90%			
8	A	451082.40	305367.75	6.00	93.00	0.00	0.00	0.40	90%			
9	A	451119.99	305377.07	6.00	289.00	0.00	0.00	0.40	90%			
10	A	451149.61	305379.70	6.00	274.00	0.00	0.00	0.40	90%			
11	A	451185.40	305380.65	6.00	265.00	0.00	0.00	0.40	90%			
12	A	451200.06	305361.27	6.00	17.00	0.00	0.00	0.40	90%			
13	A	451219.21	305330.92	6.00	198.00	0.00	0.00	0.40	90%			

Layout Continued

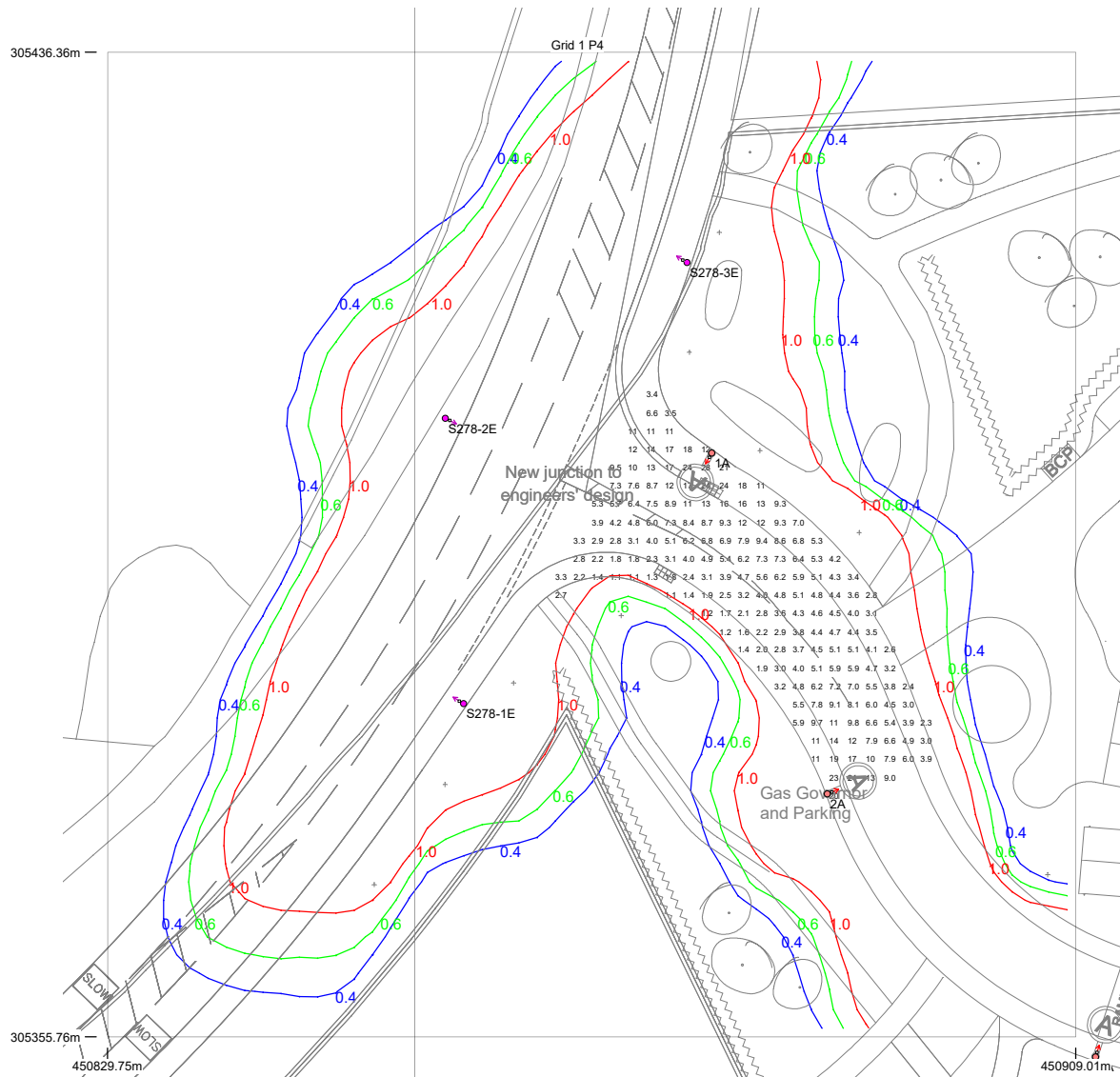
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
14	A	451222.66	305298.00	6.00	174.00	0.00	0.00	0.40	90%			
15	A	451205.81	305264.05	6.00	336.00	0.00	0.00	0.40	90%			
16	A	451185.75	305231.37	6.00	122.00	0.00	0.00	0.40	90%			
17	A	451158.38	305218.61	6.00	112.00	0.00	0.00	0.40	90%			
18	A	451122.45	305210.68	6.00	104.00	0.00	0.00	0.40	90%			
19	A	451081.24	305202.99	6.00	102.00	0.00	0.00	0.40	90%			
20	A	451039.79	305195.26	6.00	102.00	0.00	0.00	0.40	90%			
21	A	451008.37	305202.11	6.00	72.00	0.00	0.00	0.40	90%			
22	A	450989.33	305224.51	6.00	23.00	0.00	0.00	0.40	90%			
23	A	450994.89	305256.67	6.00	345.00	0.00	0.00	0.40	90%			
24	A	451013.92	305288.70	6.00	164.00	0.00	0.00	0.40	90%			
25	A	451016.96	305330.48	6.00	345.00	0.00	0.00	0.40	90%			
26	A	451029.09	305359.22	6.00	187.00	0.00	0.00	0.40	90%			
27	A	451006.82	305388.50	6.00	5.00	0.00	0.00	0.40	30%			
28	A	451005.63	305412.61	6.00	5.00	0.00	0.00	0.40	30%			
29	A	451009.73	305429.19	6.00	274.00	0.00	0.00	0.40	30%			
30	A	451215.00	305367.83	6.00	288.00	0.00	0.00	0.40	35%			
31	A	451244.79	305378.41	6.00	291.00	0.00	0.00	0.40	35%			
32	A	451260.59	305379.03	6.00	202.00	0.00	0.00	0.40	35%			
33	A	451199.24	305317.32	6.00	102.00	0.00	0.00	0.40	40%			
34	A	451166.89	305324.71	6.00	255.00	0.00	0.00	0.40	40%			
35	A	451225.35	305274.68	6.00	253.00	0.00	0.00	0.40	35%			
36	A	451249.17	305267.53	6.00	253.00	0.00	0.00	0.40	35%			
37	A	451268.33	305256.76	6.00	162.00	0.00	0.00	0.40	35%			
38	A	451150.01	305205.33	6.00	188.00	0.00	0.00	0.40	35%			
39	A	451154.54	305181.17	6.00	188.00	0.00	0.00	0.40	35%			
40	A	451153.85	305159.85	6.00	103.00	0.00	0.00	0.40	35%			
41	A	451170.47	305248.39	6.00	29.00	0.00	0.00	0.40	55%			
42	A	451147.03	305267.92	6.00	75.00	0.00	0.00	0.40	55%			
43	A	451106.10	305287.40	6.00	252.00	0.00	0.00	0.40	50%			
44	A	451092.81	305289.51	6.00	341.00	0.00	0.00	0.40	25%			
45	A	451034.23	305308.97	6.00	251.00	0.00	0.00	0.40	30%			
46	A	451055.32	305302.70	6.00	251.00	0.00	0.00	0.40	30%			
47	A	451072.63	305291.28	6.00	163.00	0.00	0.00	0.40	30%			
S278-1	E	450858.88	305383.04	8.00	148.00	0.00	0.00	0.40	100%			
S278-3	E	450877.18	305419.14	8.00	149.00	0.00	0.00	0.40	100%			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
S278-2	E	450857.40	305406.39	8.00	333.00	0.00	0.00	0.40	100%			

Horizontal Illuminance (lux)

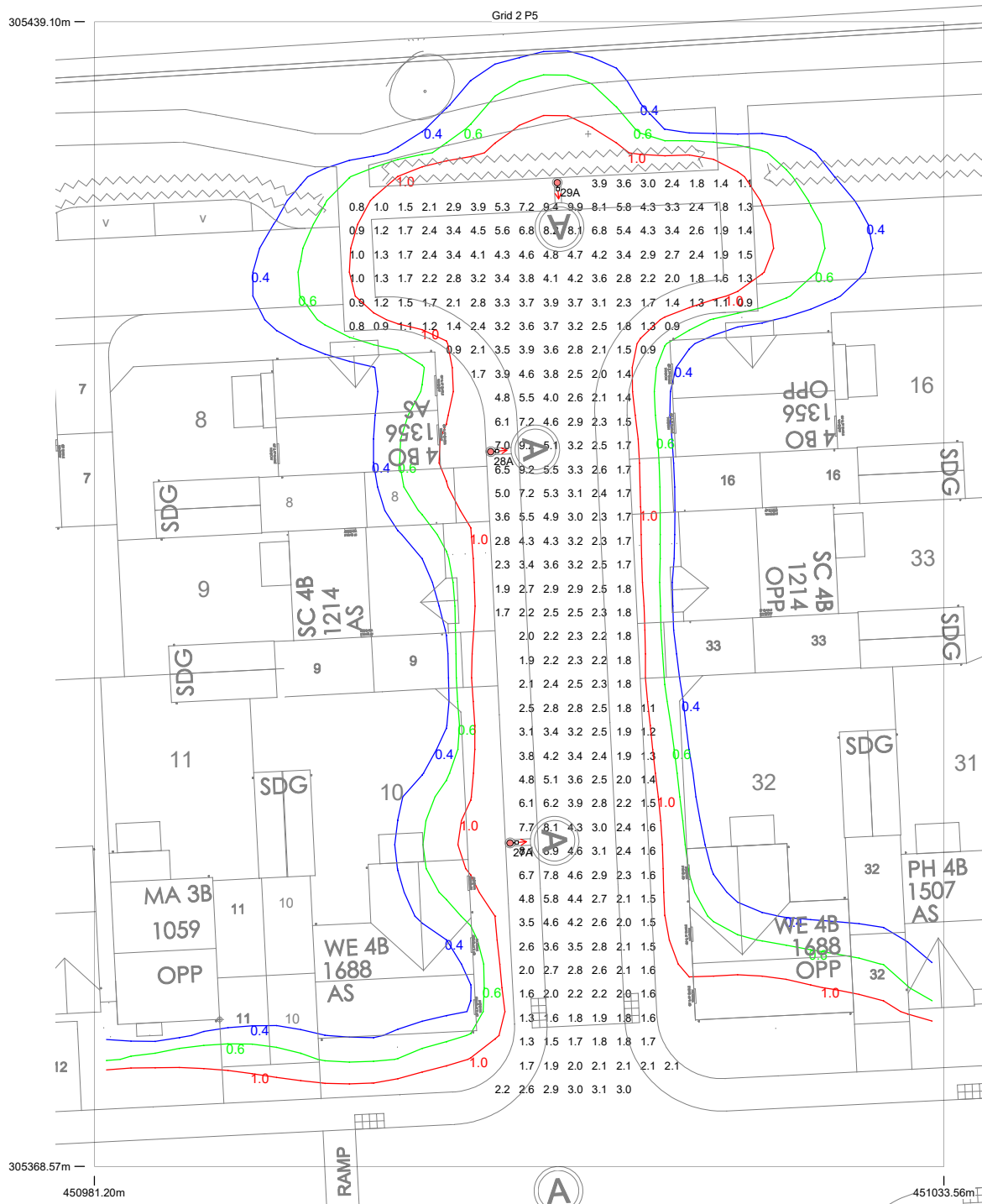
Grid 1 P4

**Results**

Eav	6.99
Emin	1.06
Emax	28.40
Emin/Emax	0.04
Emin/Eav	0.15

Horizontal Illuminance (lux)

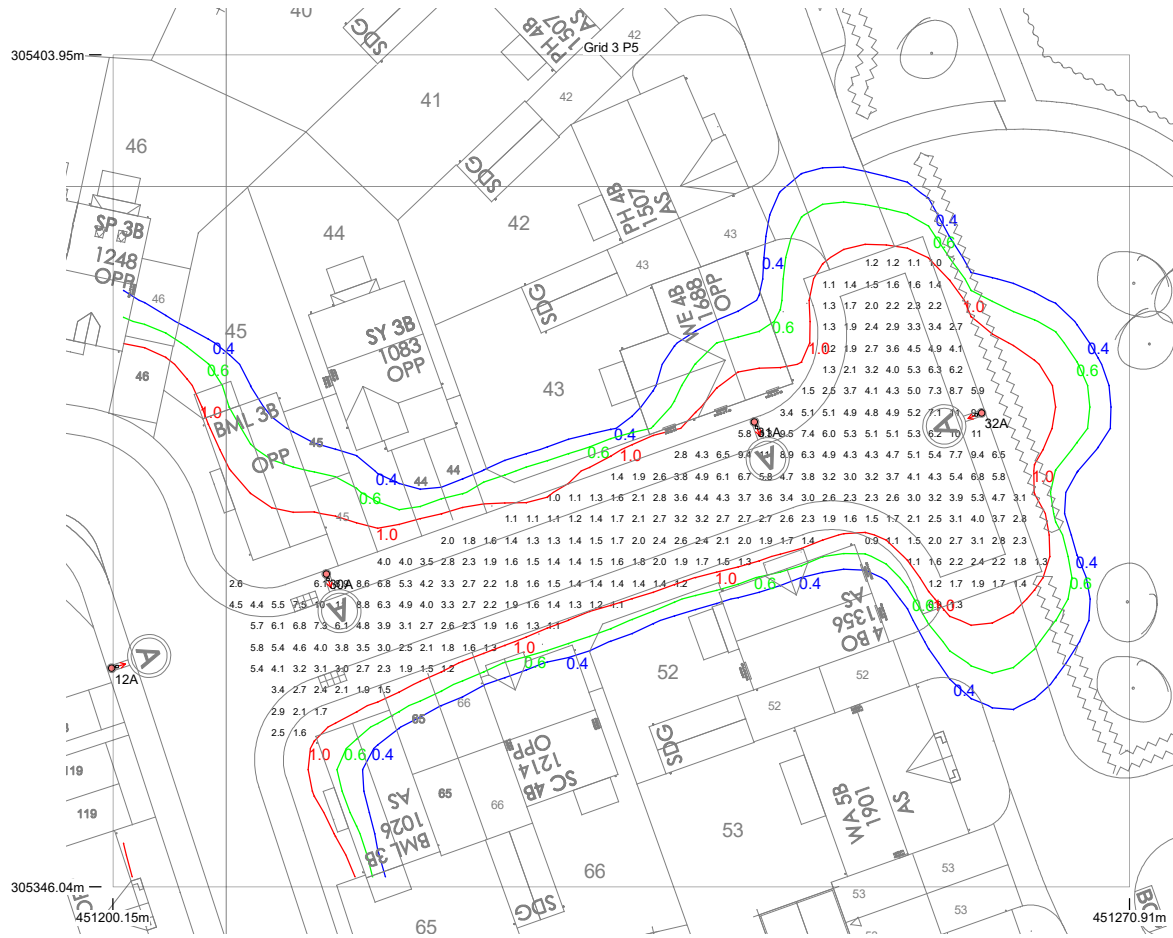
Grid 2 P5

**Results**

Eav	3.01
Emin	0.77
Emax	9.92
Emin/Emax	0.08
Emin/Eav	0.25

Horizontal Illuminance (lux)

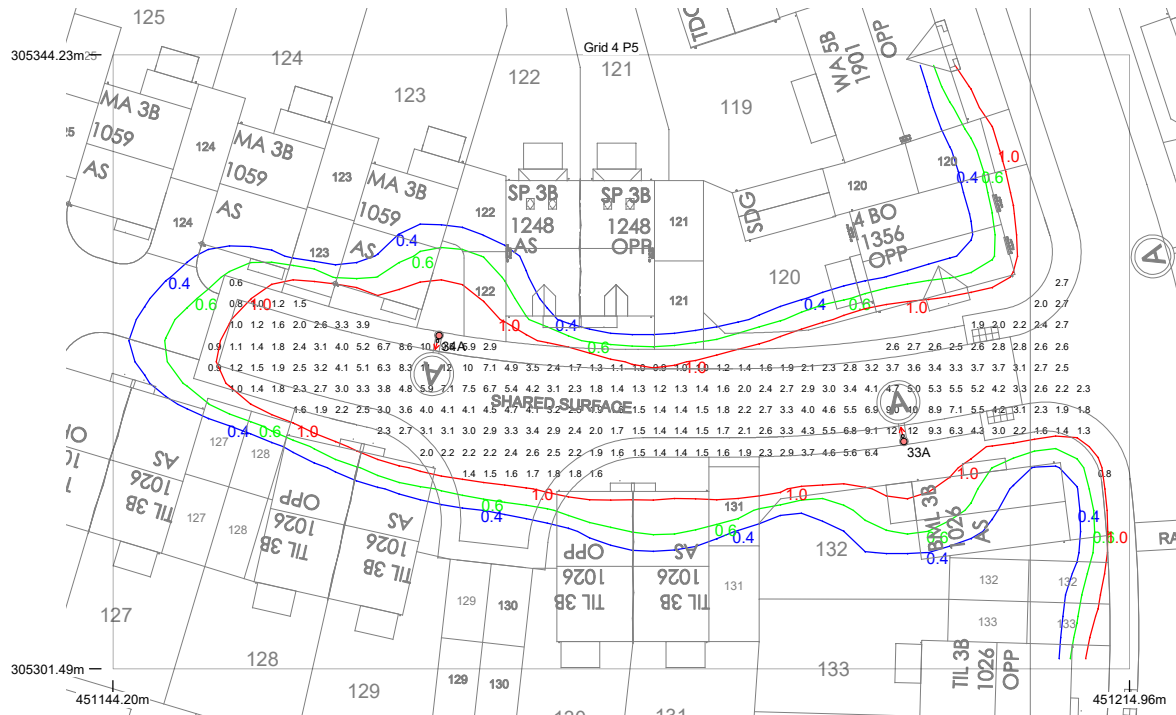
Grid 3 P5

**Results**

Eav	3.39
Emin	0.88
Emax	11.45
Emin/Emax	0.08
Emin/Eav	0.26

Horizontal Illuminance (lux)

Grid 4 P5

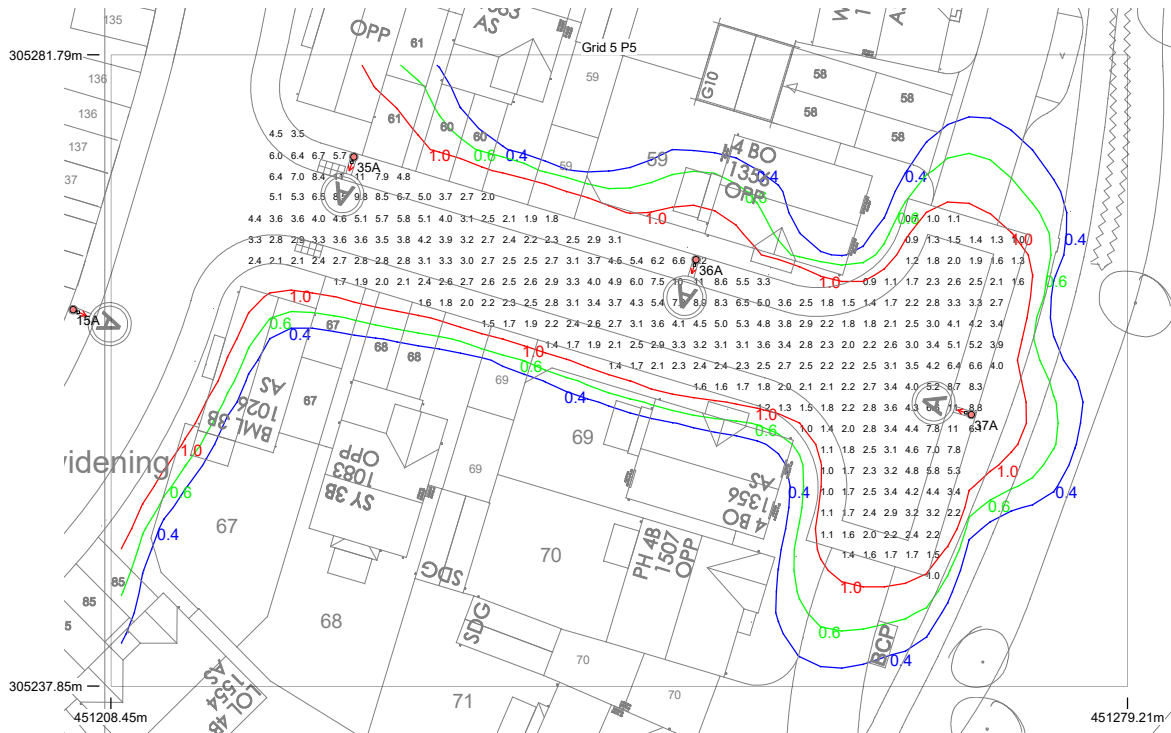


Results

Eav	3.27
Emin	0.64
Emax	12.22
Emin/Emax	0.05
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 5 P5

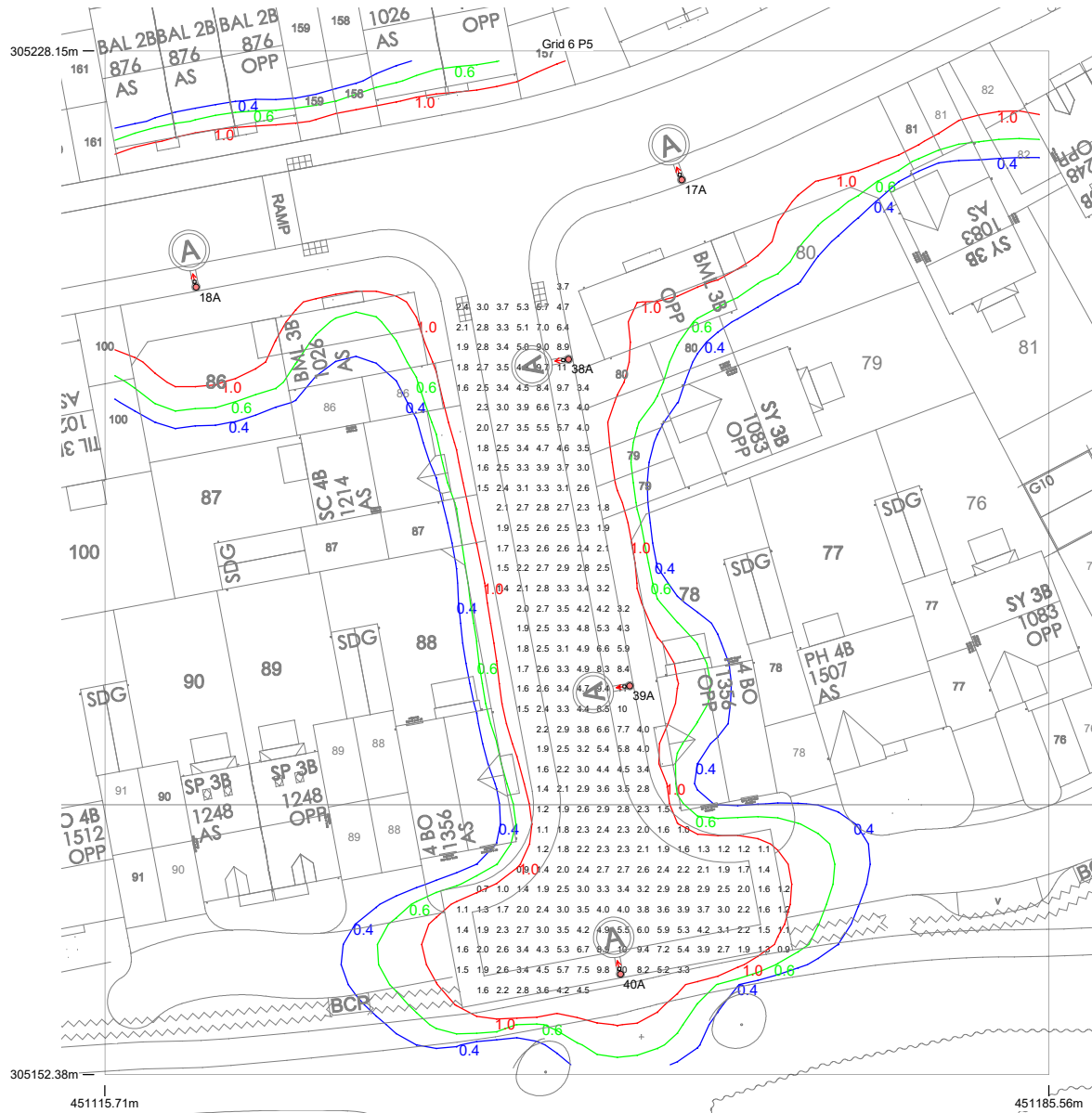


Results

Eav	3.45
Emin	0.70
Emax	11.13
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

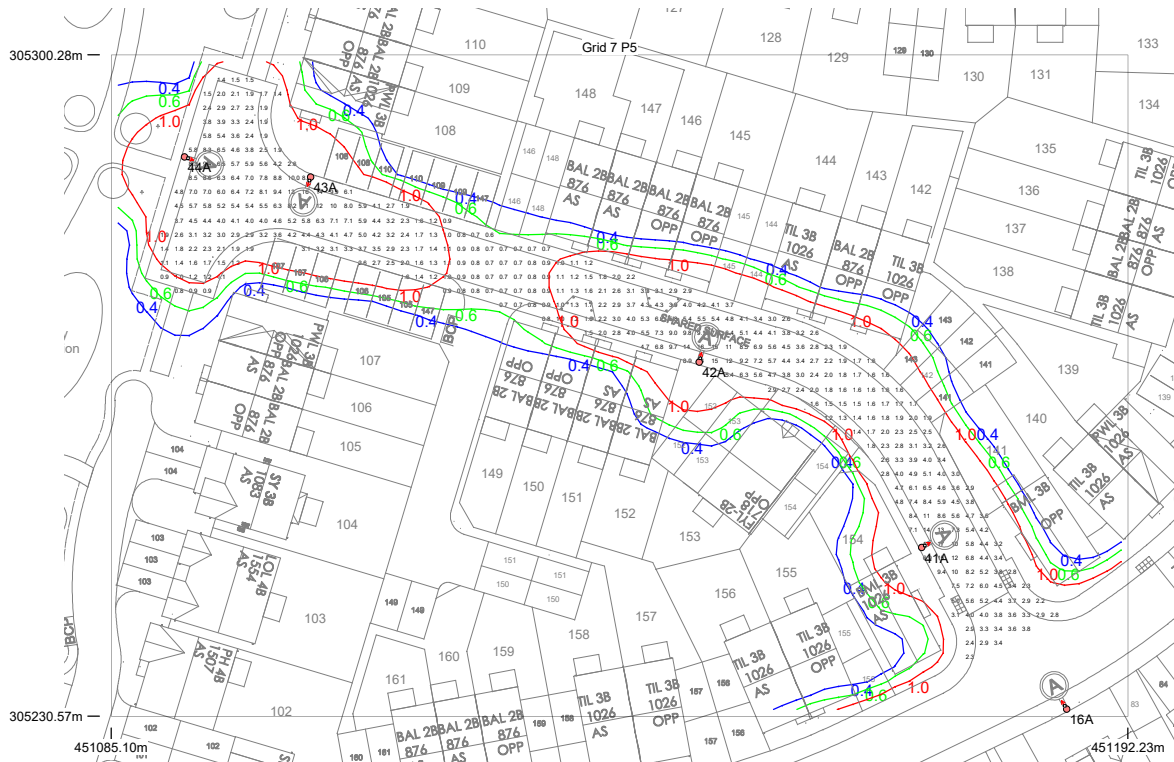
Grid 6 P5

**Results**

Eav	3.44
Emin	0.75
Emax	10.67
Emin/Emax	0.07
Emin/Eav	0.22

Horizontal Illuminance (lux)

Grid 7 P5

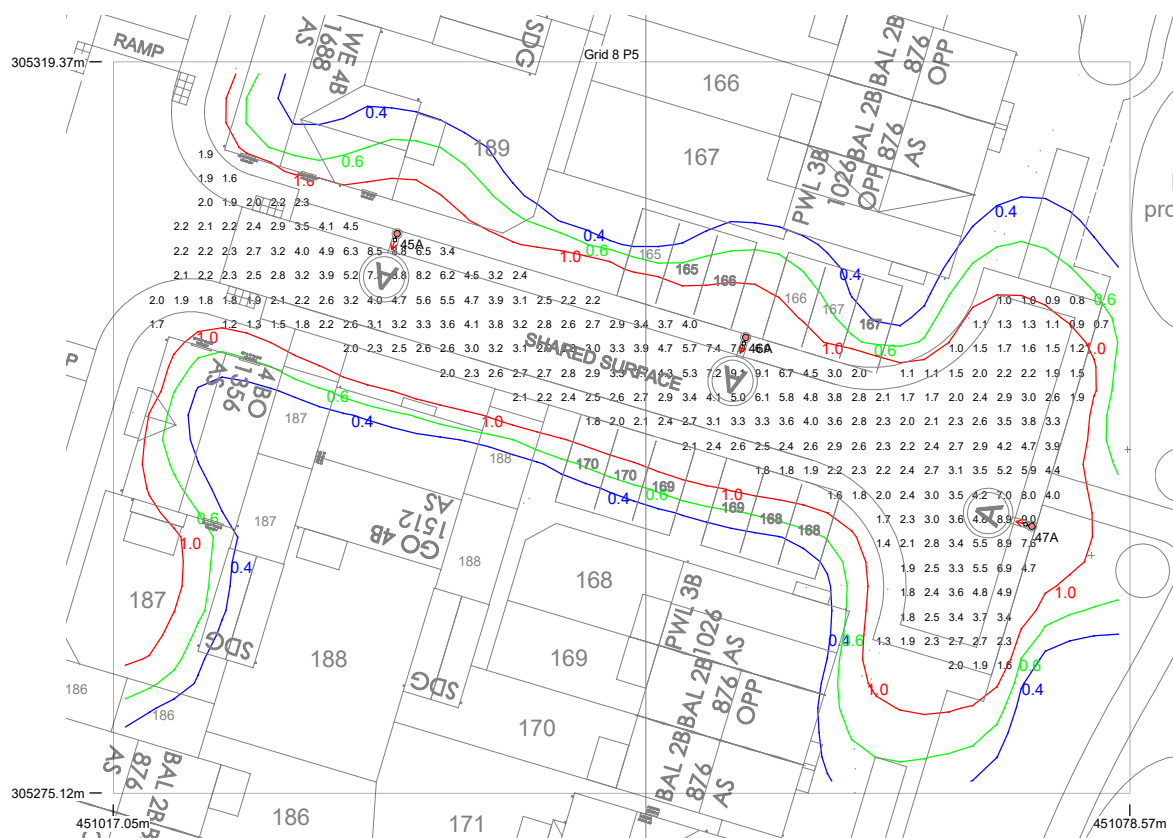


Results

Eav	3.97
Emin	0.64
Emax	16.97
Emin/Emax	0.04
Emin/Eav	0.16

Horizontal Illuminance (lux)

Grid 8 P5



Results

Eav	3.19
Emin	0.74
Emax	9.14
Emin/Emax	0.08
Emin/Eav	0.23