

DATE: 16 March 2026
DESIGNER: The Lighting Bee Ltd
PROJECT No: 1775
PROJECT NAME: Spitfire Rd, Calne



S38 Street Lighting Strategy

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 - P5	0.00	100.00	375.00	375.00	1.50	1.50
2	Grid 2 - P4	90.00	165.00	140.00	90.00	1.49	1.50

Luminaires

Luminaire A Data

Supplier	
Type	AXIA 3.1 C2.1 - 3K 8 OSOLON SQUARE GIANT 540mA WW Integrated I
Lamp(s)	8 OSOLON SQUARE GIANT 540mA WW 3000K
Lamp Flux (klm)	2.10
File Name	AXIA 3.1 C2.1 - 3K 8 OSOLON SQUARE GIANT 540mA WW 3000K Integrated lenses - ...
Maintenance Factor	0.87
Imax70,80,90(cd/klm)	862.0, 84.6, 0.0
No. in Project	11

Luminaire B Data

Supplier	
Type	AXIA 3.1 C2.1 - 3K BL 8 OSOLON SQUARE GIANT 540mA WW 3000K Int
Lamp(s)	8 OSOLON SQUARE GIANT 540mA WW 3000K
Lamp Flux (klm)	2.10
File Name	AXIA 3.1 C2.1 - 3K BL 8 OSOLON SQUARE GIANT 540mA WW 3000K Integrated lens...
Maintenance Factor	0.87
Imax70,80,90(cd/klm)	742.5, 62.1, 4.3
No. in Project	5

Luminaire C Data

Supplier	
Type	AXIA 3.1 C3.6 - 3K 16 OSOLON SQUARE GIANT 460mA WW Integrated
Lamp(s)	16 OSOLON SQUARE GIANT 460mA WW 3000K
Lamp Flux (klm)	3.65
File Name	AXIA 3.1 C3.6 - 3K 16 OSOLON SQUARE GIANT 460mA WW 3000K Integrated lenses ...
Maintenance Factor	0.87
Imax70,80,90(cd/klm)	862.0, 84.6, 0.0
No. in Project	3

Layout

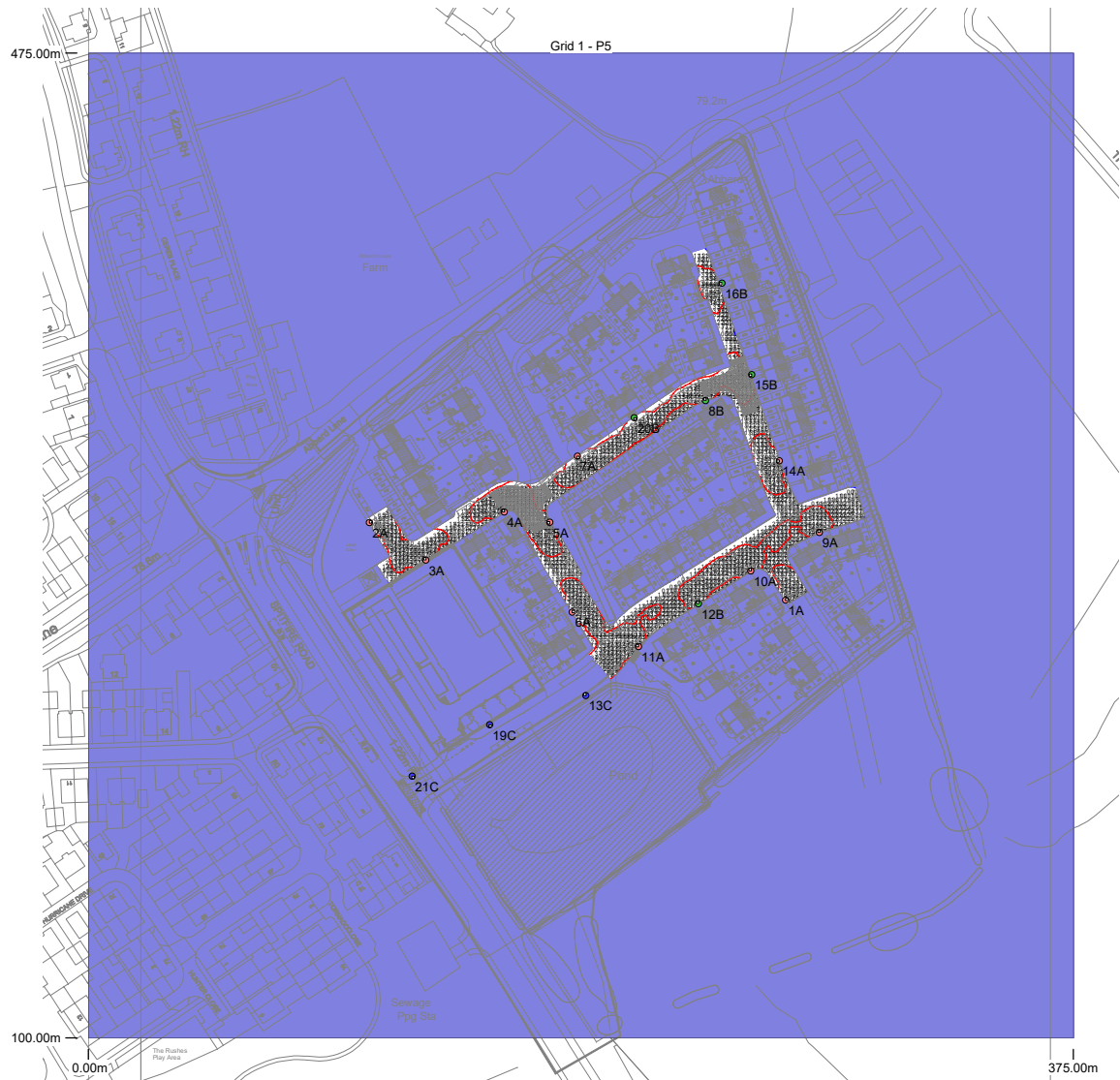
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	265.37	266.76	5.00	31.00	0.00	0.00	0.54			
2	A	106.98	296.26	5.00	29.00	0.00	0.00	0.54			
3	A	128.40	281.99	5.00	123.00	0.00	0.00	0.54			
4	A	158.26	300.30	5.00	120.00	0.00	0.00	0.54			
5	A	175.66	296.41	5.00	212.00	0.00	0.00	0.54			
6	A	184.10	262.17	5.00	31.00	0.00	0.00	0.54			
7	A	186.09	321.51	5.00	304.00	0.00	0.00	0.54			
8	B	234.88	342.72	5.00	112.00	0.00	0.00	0.54			
9	A	278.26	292.49	6.00	108.00	0.00	0.00	0.54			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
10	A	252.11	277.89	6.00	120.00	0.00	0.00	0.54			
11	A	209.34	249.13	6.00	144.00	0.00	0.00	0.54			
12	B	232.21	265.41	6.00	123.00	0.00	0.00	0.54			
13	C	189.31	230.47	6.00	126.00	0.00	0.00	0.54			
14	A	263.01	319.80	5.00	200.00	0.00	0.00	0.54			
15	B	252.54	352.55	5.00	200.00	0.00	0.00	0.54			
16	B	241.12	387.38	5.00	204.00	0.00	0.00	0.54			
19	C	152.73	219.33	6.00	300.00	0.00	0.00	0.54			
20	B	207.77	336.14	5.00	304.00	0.00	0.00	0.54			
21	C	123.25	199.75	6.00	306.00	0.00	0.00	0.54			

Horizontal Illuminance (lux)

Grid 1 - P5

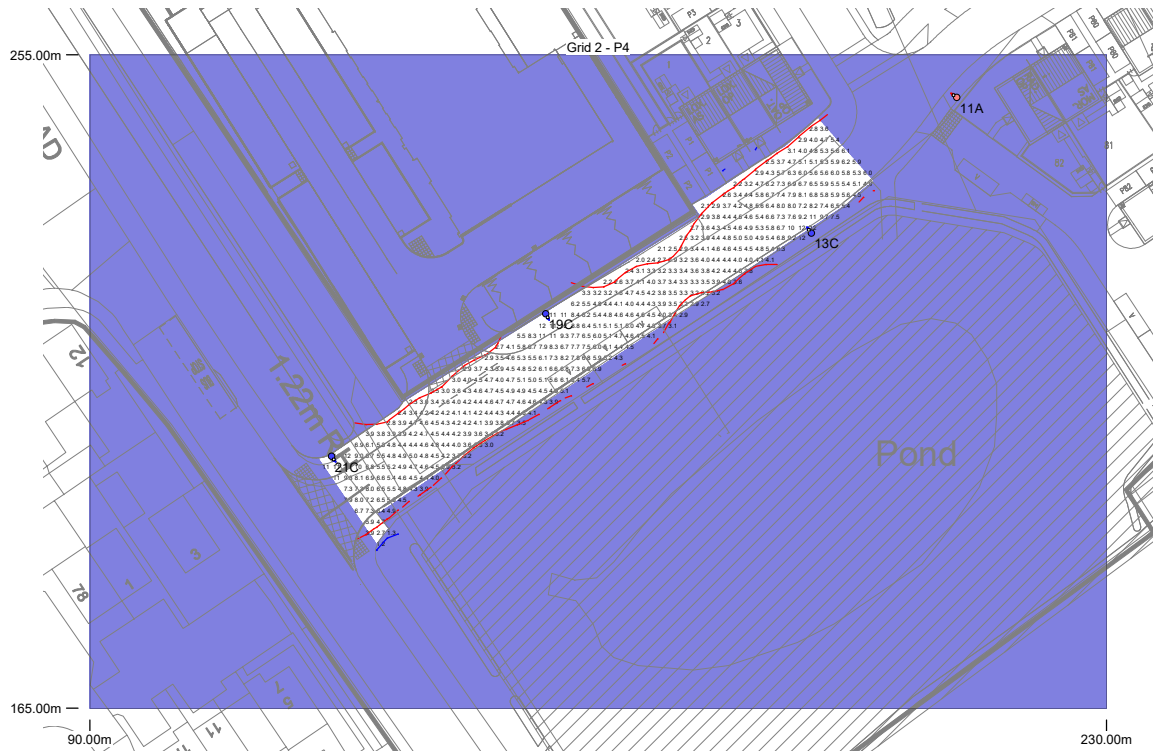


Results

Eav	3.51
Emin	0.61
E _{max}	10.26
Emin/E _{max}	0.06
Emin/Eav	0.17

Horizontal Illuminance (lux)

Grid 2 - P4



Results

Eav	5.11
Emin	1.20
Emax	11.87
Emin/Emax	0.10
Emin/Eav	0.24