

DATE: 17 May 2021
DESIGNER: SS
PROJECT No: 22475
PROJECT NAME: Rossett Road, Wrexham



22475-A-01
Junction calculations
Lighting class C3

Outdoor Lighting Report

PREPARED BY: Harttron Ltd
Units 3-3a
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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	337221.49	357296.50	162.00	90.00	1.50	1.50

Luminaires

Luminaire A Data



Supplier	Urbis Schreder
Type	AMPERA MINI 5068 Flat glass 24 OSLO SQUARE GIANT@350mA NW
Lamp(s)	24 OSLO SQUARE GIANT@350mA NW 740 230V
LampFlux(klm)/Colour	3.52 NW 4000K/70
File Name	AMPERA MINI 5068 24 OSLO SQUARE GIANT 350mA NW 740 26W 404502 Flat g...
Maintenance Factor	0.82
Imax70,80,90(cd/klm)	386.8, 173.4, 0.0
No. in Project	2

Luminaire B Data



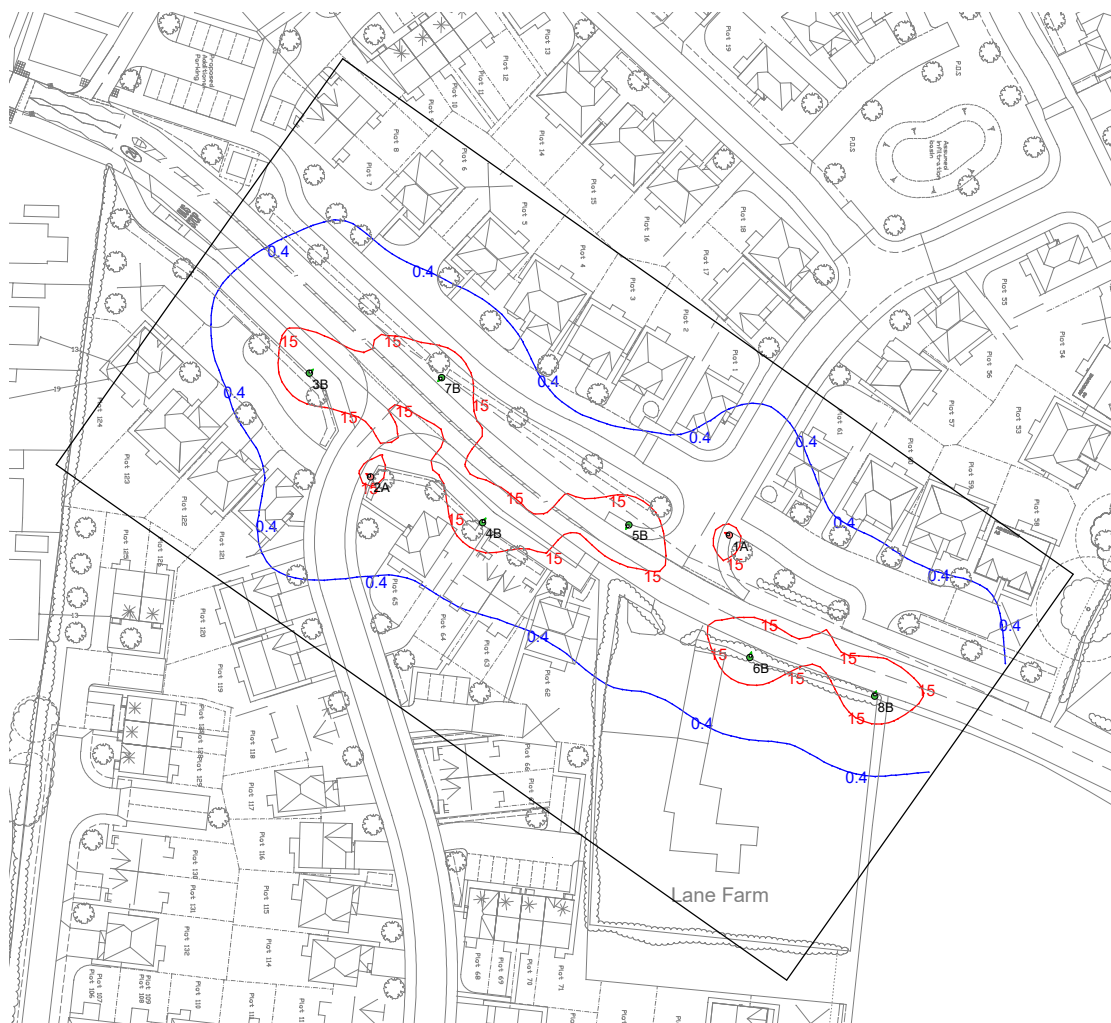
Supplier	Urbis Schreder
Type	AMPERA MIDI 5119 Flat glass 48 OSLO SQUARE GIANT@550mA NW
Lamp(s)	48 OSLO SQUARE GIANT@550mA NW 740 230V
LampFlux(klm)/Colour	10.87 NW 4000K/70
File Name	AMPERA MIDI 5119 48 OSLO SQUARE GIANT 550mA NW 740 79W 403192 Flat g...
Maintenance Factor	0.82
Imax70,80,90(cd/klm)	545.5, 21.0, 0.0
No. in Project	6

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	337343.48	357283.74	6.00	151.00	5.00	0.00	0.30			
2	A	337278.46	357294.29	6.00	144.00	5.00	0.00	0.30			
3	B	337267.36	357313.08	6.00	46.00	5.00	0.00	0.30			
4	B	337298.75	357285.99	6.00	56.00	5.00	0.00	0.30			
5	B	337325.22	357285.59	6.00	235.00	5.00	0.00	0.30			
6	B	337347.17	357261.61	6.00	73.00	5.00	0.00	0.30			
7	B	337291.34	357312.29	6.00	223.00	5.00	0.00	0.30			
8	B	337369.78	357254.55	6.00	73.00	5.00	0.00	0.30			

Horizontal Illuminance (lux)

Grid 1

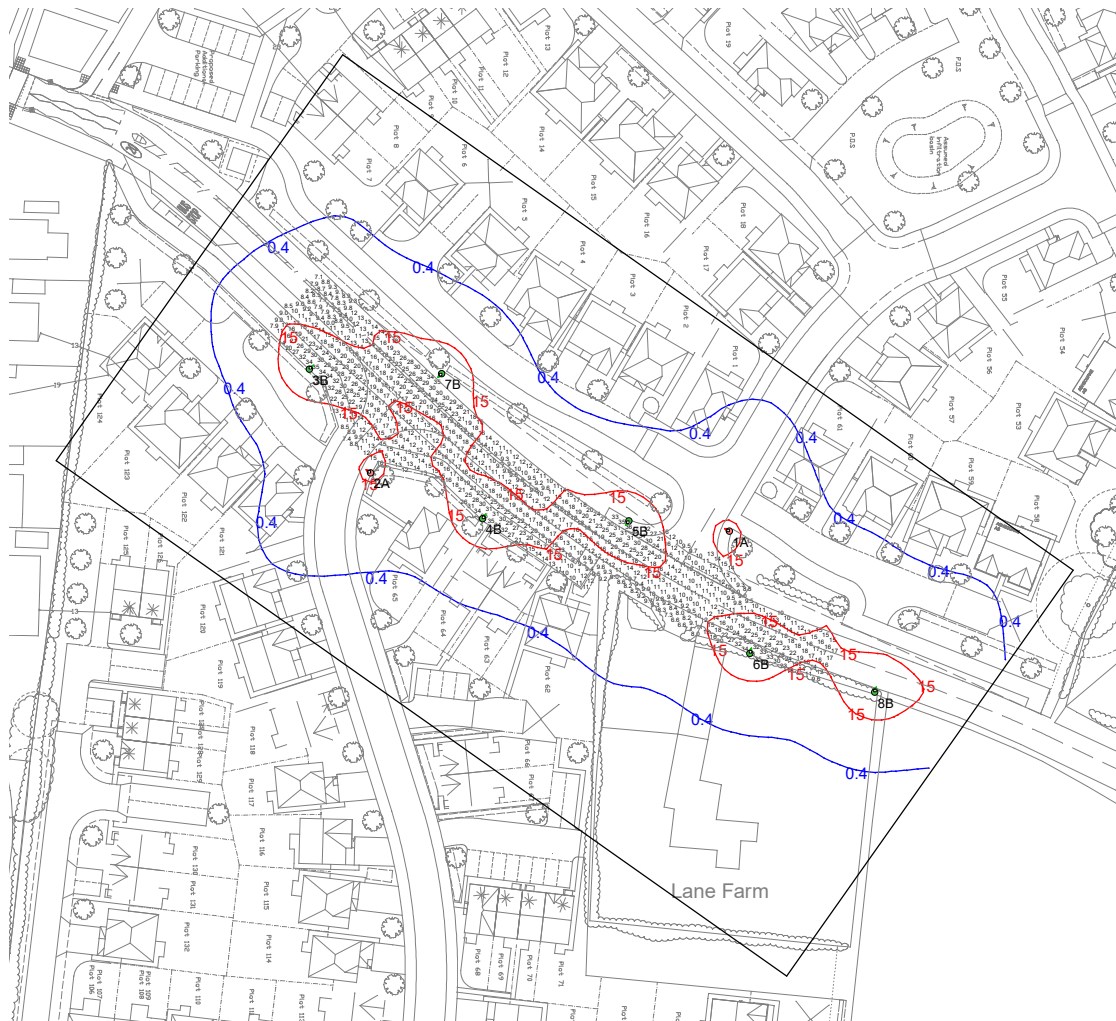


Results

Eav	16.47
Emin	6.58
Emax	35.79
Emin/Emax	0.18
Emin/Eav	0.40

Horizontal Illuminance (lux)

Grid 1



Results

Eav	16.47
Emin	6.58
E _{max}	35.79
Emin/E _{max}	0.18
Emin/Eav	0.40