

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



22475-A-01B
Junction calculations
Lighting class C3

Outdoor Lighting Report

PREPARED BY: Harttron Ltd
Units 3-3a
Second Avenue
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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	337143.00	357351.87	294.00	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	11

Luminaire C Data



Supplier	Urbis Schreder
Type	AMPERA MIDI 5144 Flat glass Zebra left 3 2 OSLO SQUARE GIANT
Lamp(s)	32 OSLO SQUARE GIANT@700mA NW 740 230V
LampFlux(klm)/Colour	8.99 NW 4000K/70
File Name	AMPERA MIDI 5144 32 OSLO SQUARE GIANT 700mA NW 740 69.5W 415052 Flat...
Maintenance Factor	0.82
Imax70,80,90(cd/klm)	71.6, 11.1, 0.0
No. in Project	2

Layout

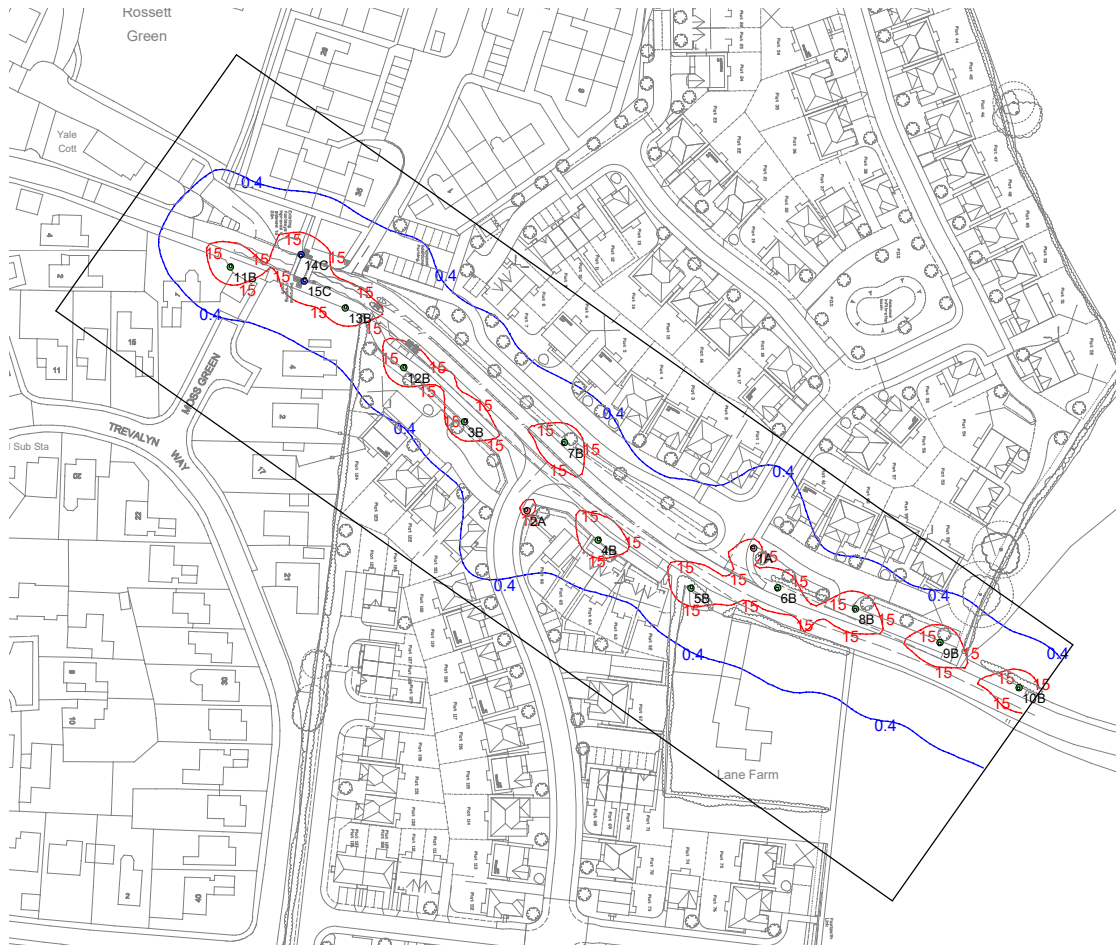
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out- reach	Target X	Target Y	Target Z
1	A	337343.48	357283.74	6.00	151.00	5.00	0.00	0.30			
2	A	337278.30	357294.52	6.00	151.00	5.00	0.00	0.30			
3	B	337260.42	357320.02	6.00	46.00	5.00	0.00	0.30			
4	B	337298.75	357285.99	6.00	56.00	5.00	0.00	0.30			
5	B	337325.42	357272.25	6.00	60.00	5.00	0.00	0.30			
6	B	337350.31	357272.33	6.00	248.00	5.00	0.00	0.30			
7	B	337289.09	357314.11	6.00	226.00	5.00	0.00	0.30			
8	B	337372.66	357266.26	6.00	250.00	5.00	0.00	0.30			
9	B	337396.93	357256.63	6.00	250.00	5.00	0.00	0.30			
10	B	337419.66	357243.67	6.00	240.00	5.00	0.00	0.30			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
11	B	337193.10	357364.44	6.00	65.00	5.00	0.00	0.30			
12	B	337242.98	357335.54	6.00	53.00	5.00	0.00	0.30			
13	B	337226.11	357352.72	6.00	69.00	5.00	0.00	0.30			
14	C	337213.45	357368.02	6.00	250.00	5.00	0.00	0.30			
15	C	337214.39	357360.42	6.00	68.00	5.00	0.00	0.30			

Horizontal Illuminance (lux)

Grid 1

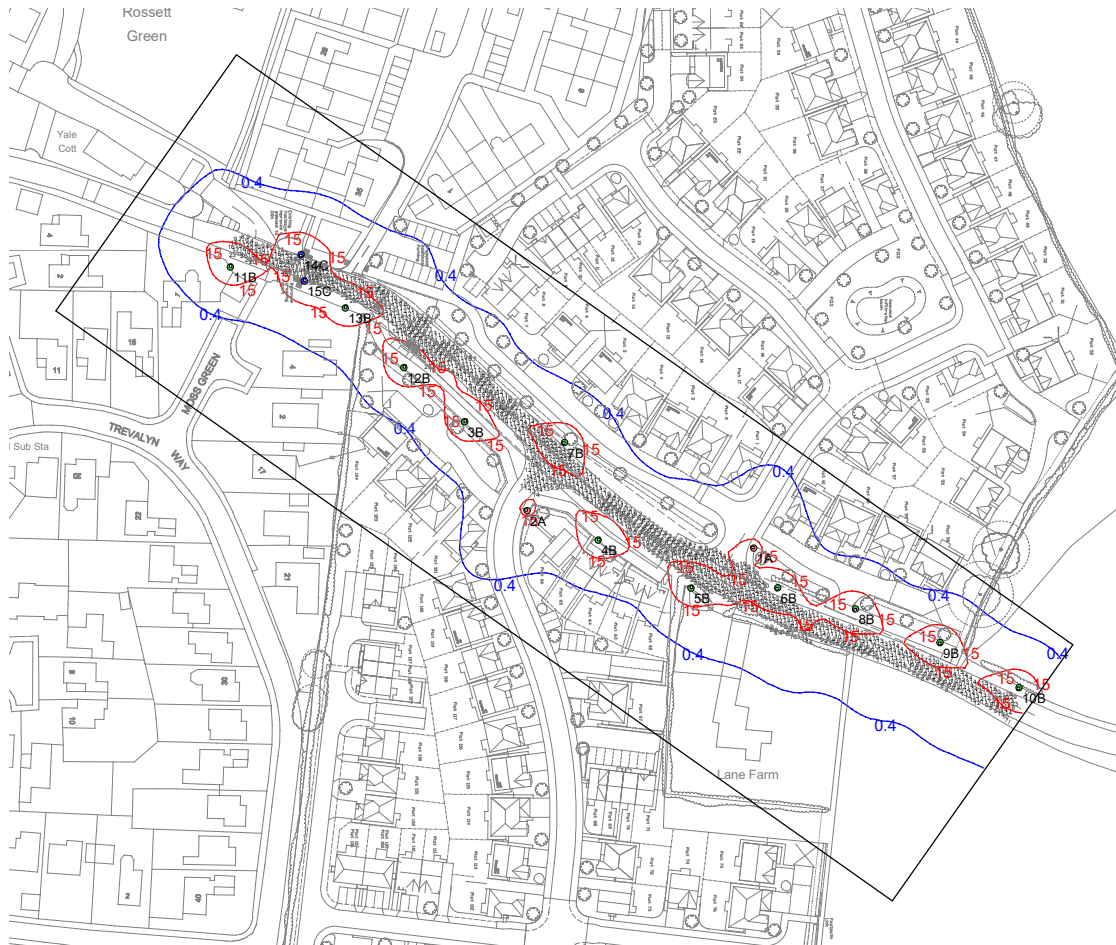


Results

Eav	16.48
Emin	7.31
Emax	157.74
Emin/Emax	0.05
Emin/Eav	0.44

Horizontal Illuminance (lux)

Grid 1



Results

Eav	16.48
Emin	7.31
Emax	157.74
Emin/Emax	0.05
Emin/Eav	0.44