

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



22475-A-02
Crossing Calculation
Lighting class C3

Outdoor Lighting Report

PREPARED BY: Harttron Ltd
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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	Large Overview	337189.19	357356.73	45.00	30.00	1.50	1.50
2	Small Overview	337205.42	357359.58	12.00	15.00	0.40	0.75
3	North Back Footpath	337213.72	357370.80	5.27	1.50	1.76	0.75
4	North Front Footpath	337212.47	357368.04	5.59	1.50	1.40	1.50
5	Center	337211.35	357365.10	5.67	1.50	1.42	0.75
6	South Front Footpath	337210.32	357362.39	5.63	1.50	1.41	1.50
7	South Back Footpath	337209.20	357359.21	5.50	1.50	1.38	0.75

Luminaires



Luminaire B Data

Supplier	Urbis Schreder
Type	AMPERA MIDI 5119 Flat glass 48 OSLON SQUARE GIANT@550mA NW
Lamp(s)	48 OSLON SQUARE GIANT@550mA NW 740 230V
LampFlux(klm)/Colour	10.87 NW 4000K/70
File Name	AMPERA MIDI 5119 48 OSLON 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	3



Luminaire C Data

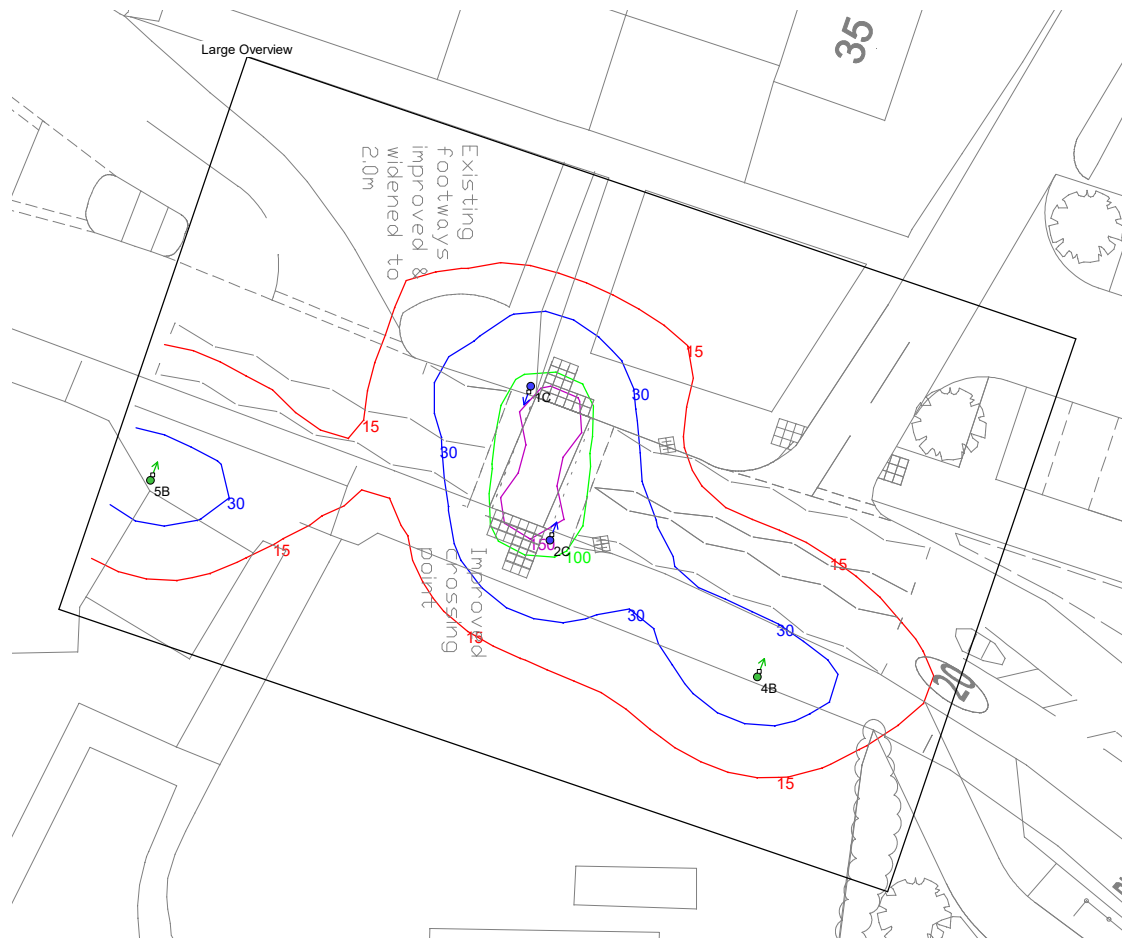
Supplier	Urbis Schreder
Type	AMPERA MIDI 5144 Flat glass Zebra left 32 OSLON SQUARE GIANT
Lamp(s)	32 OSLON SQUARE GIANT@700mA NW 740 230V
LampFlux(klm)/Colour	8.99 NW 4000K/70
File Name	AMPERA MIDI 5144 32 OSLON SQUARE GIANT 700mA NW 740 69.5W 415052 Flat...
Maintenance Factor	0.82
Imax70,80,90(cd/klm)	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	C	337213.44	357368.19	6.00	250.00	0.00	0.00	0.30			
2	C	337214.42	357360.28	6.00	69.00	0.00	0.00	0.30			
3	B	337267.36	357313.08	6.00	46.00	5.00	0.00	0.30			
4	B	337225.09	357353.27	6.00	69.00	5.00	0.00	0.30			
5	B	337193.90	357363.37	6.00	69.00	5.00	0.00	0.30			

Horizontal Illuminance (lux)

Large Overview

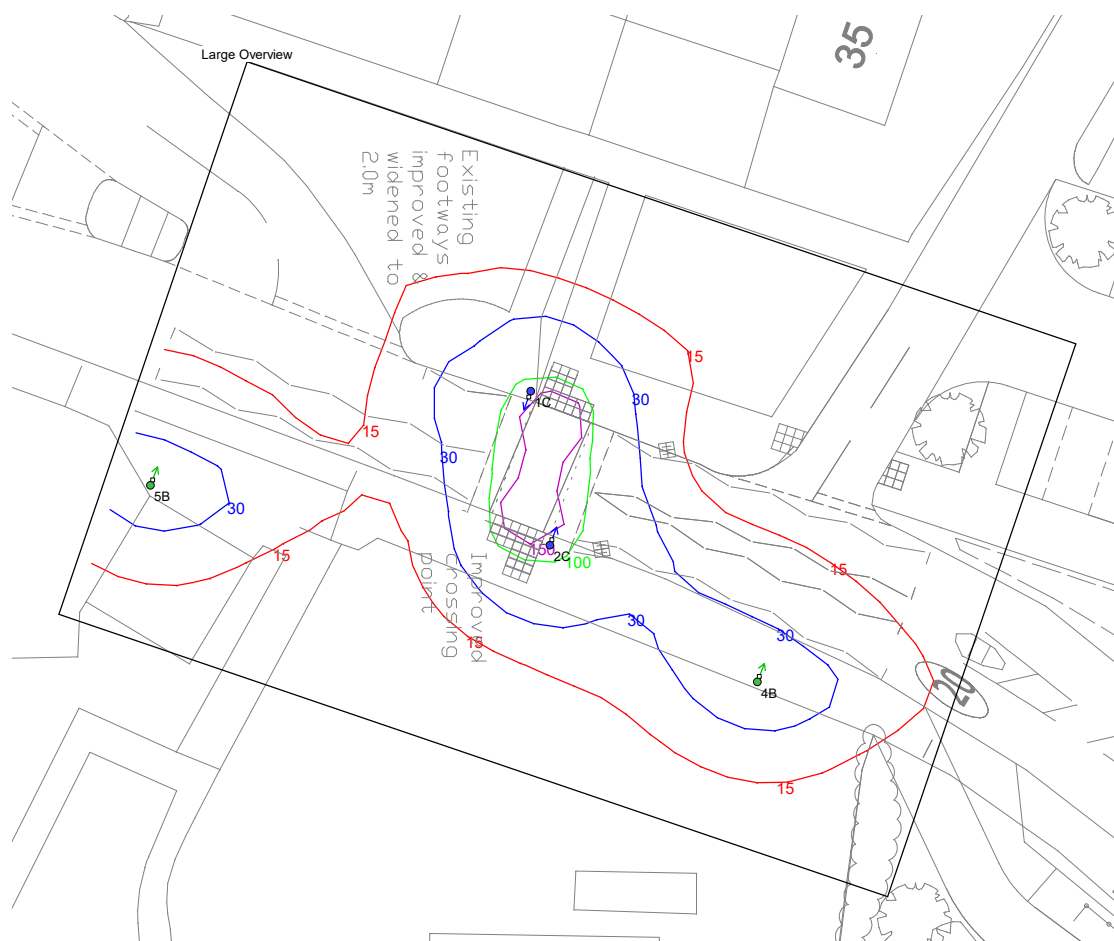


Results

Eav	117.85
Emin	34.79
Emax	223.47
Emin/Emax	0.16
Emin/Eav	0.30

Horizontal Illuminance (lux)

Large Overview

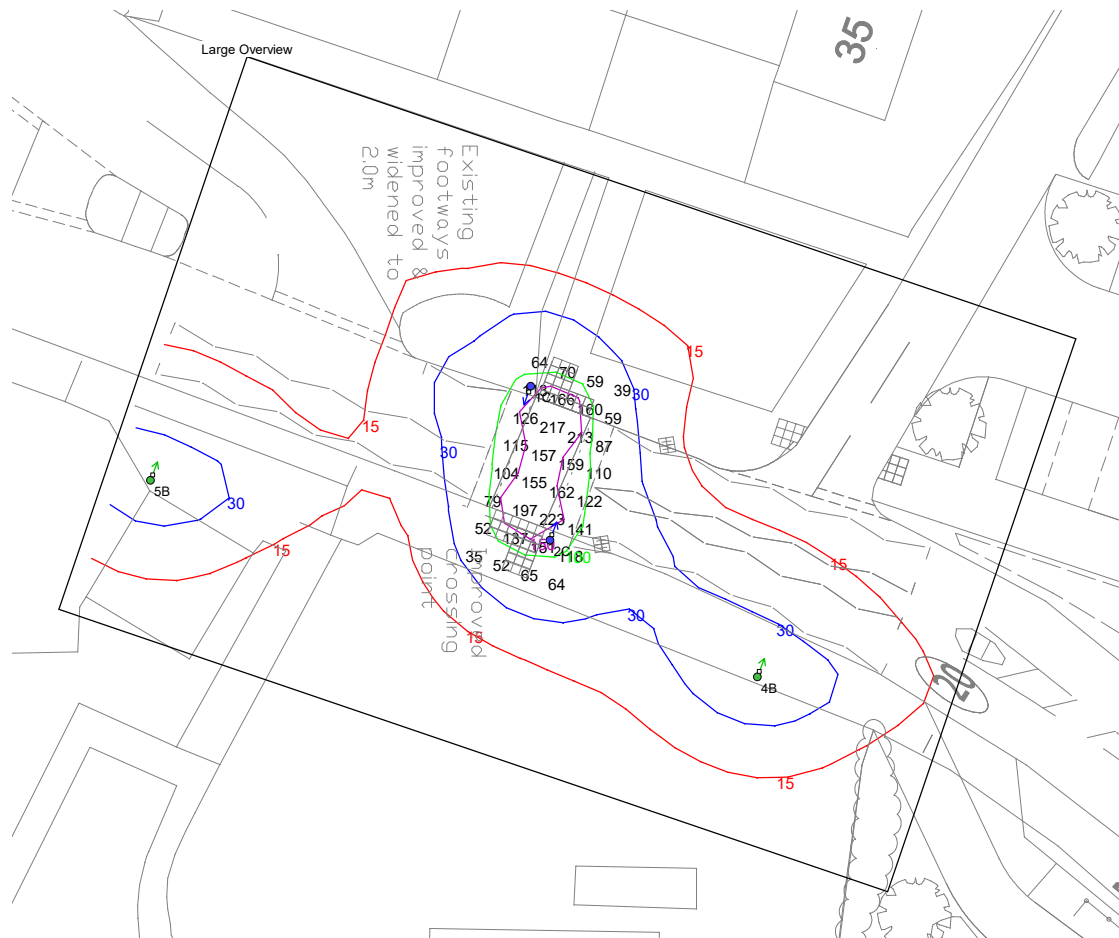


Results

Eav	117.85
Emin	34.79
Emax	223.47
Emin/Emax	0.16
Emin/Eav	0.30

Horizontal Illuminance (lux)

Large Overview

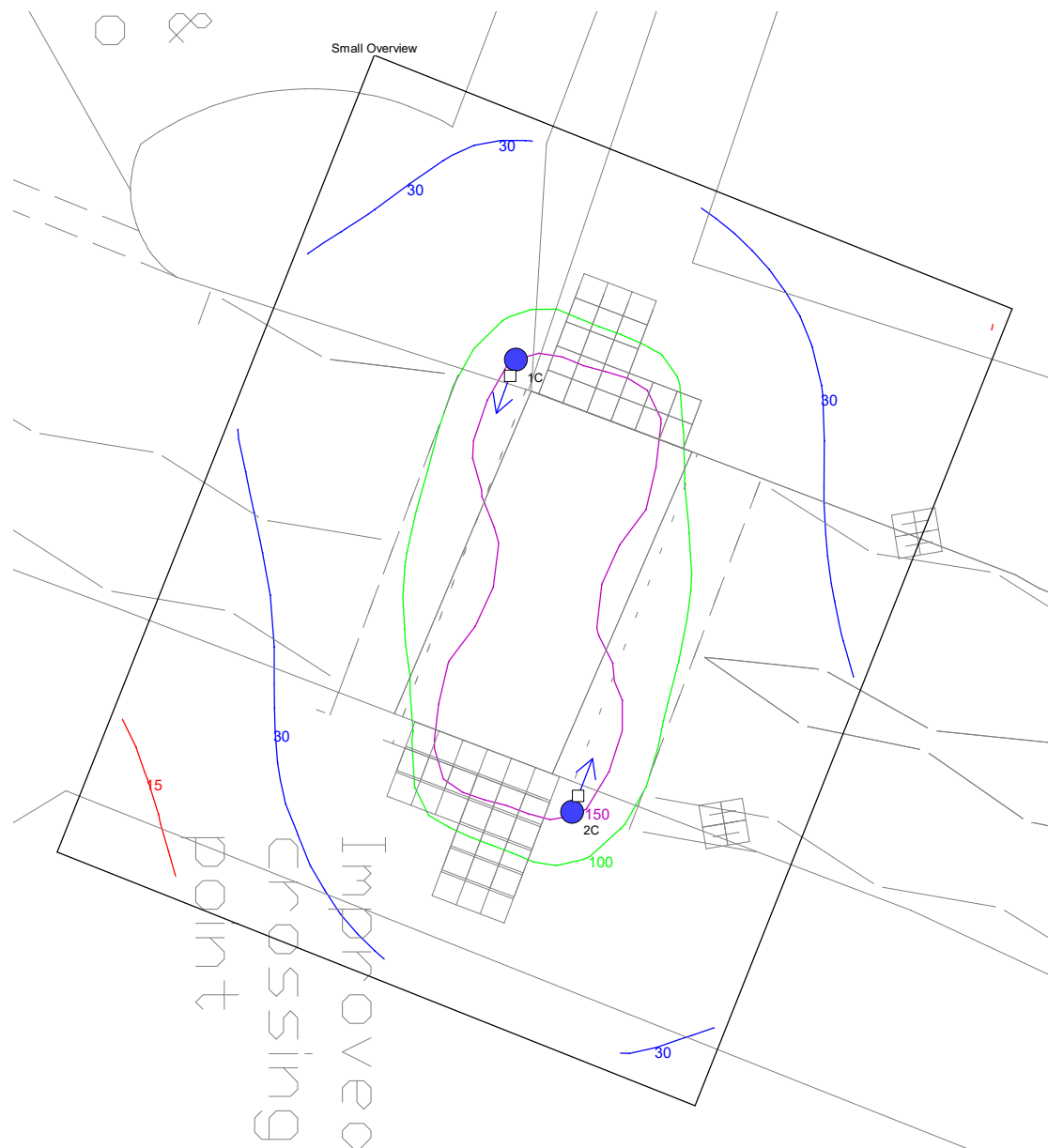


Results

Eav	117.85
Emin	34.79
Emax	223.47
Emin/Emax	0.16
Emin/Eav	0.30

Horizontal Illuminance (lux)

Small Overview

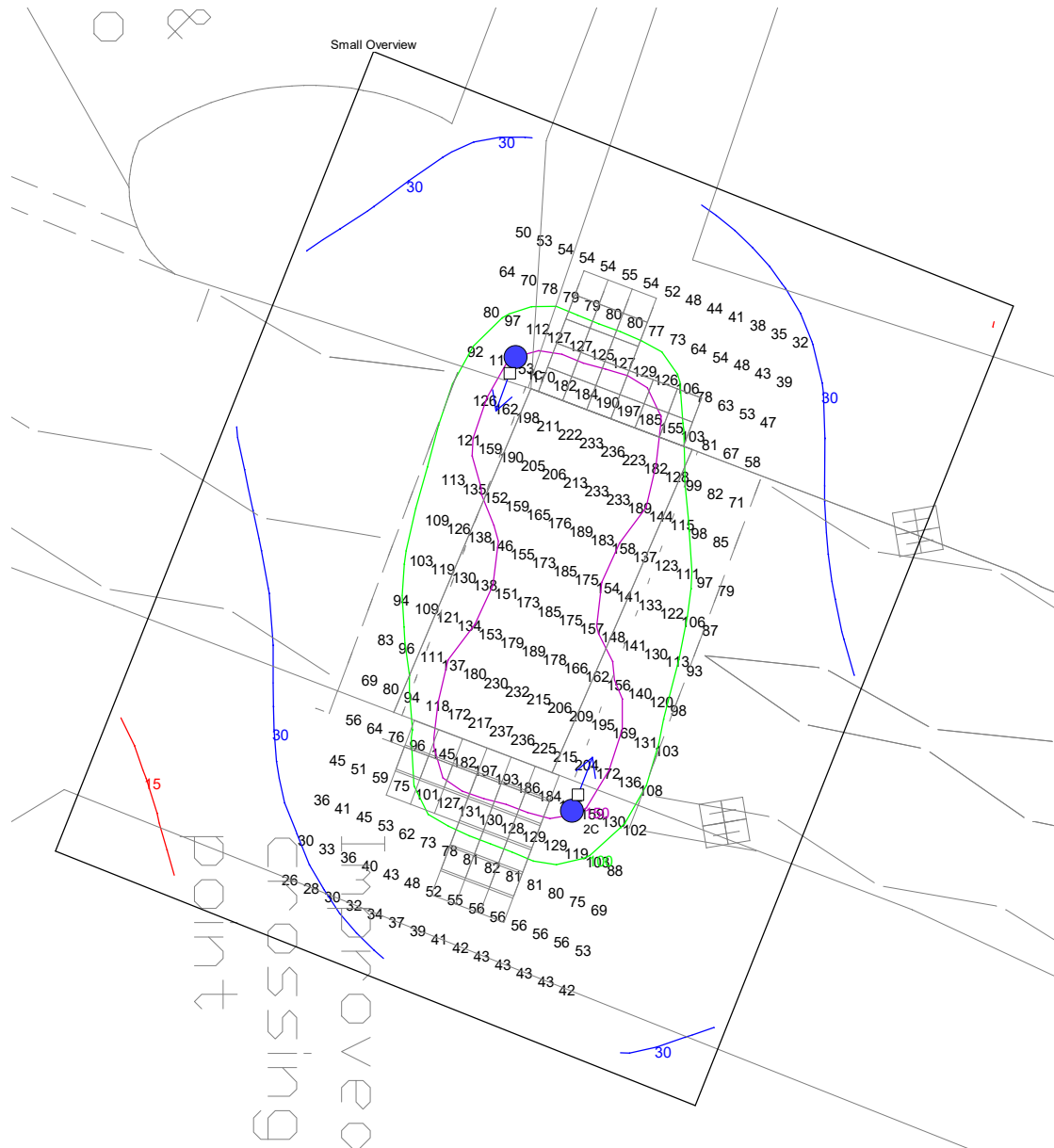


Results

Eav	115.40
Emin	25.57
Emax	236.76
Emin/Emax	0.11
Emin/Eav	0.22

Horizontal Illuminance (lux)

Small Overview



Results

Eav	115.40
Emin	25.57
Emax	236.76
Emin/Emax	0.11
Emin/Eav	0.22

Illuminance (lux)

North Back Footpath

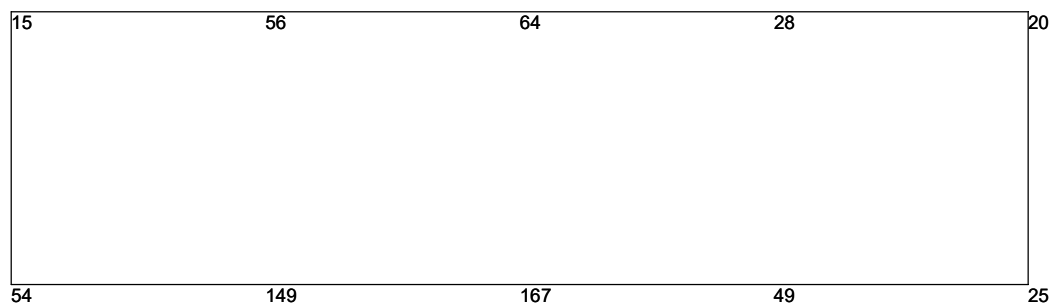
30	24
31	27

Results

Eav	28.07
Emin	23.54
Emax	31.50
Emin/Emax	0.75
Emin/Eav	0.84

Illuminance (lux)

North Front Footpath



Results

Eav	62.79
Emin	15.08
Emax	167.10
Emin/Emax	0.09
Emin/Eav	0.24

Illuminance (lux)

Center

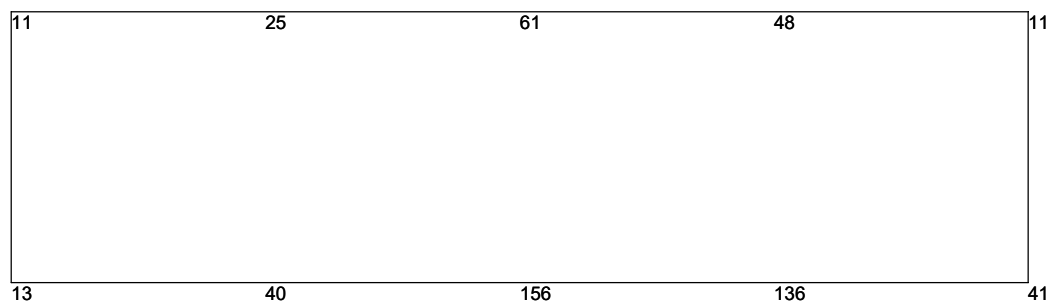
40	100	93	28
30	53	57	36

Results

Eav	54.49
Emin	27.53
Emax	99.79
Emin/Emax	0.28
Emin/Eav	0.51

Illuminance (lux)

South Front Footpath



Results

Eav	54.33
Emin	11.38
Emax	156.29
Emin/Emax	0.07
Emin/Eav	0.21

Illuminance (lux)

South Back Footpath

18	25	29	29
17	22	27	27

Results

Eav	24.24
Emin	17.08
Emax	29.27
Emin/Emax	0.58
Emin/Eav	0.70