

DATE: 7 March 2024
DESIGNER: SHD Lighting Consultancy Ltd
PROJECT No: SHD1351
PROJECT NAME: Manchester Maccabi Community and Sports Club



Floodlighting unit photometric file and installation parameters taken from information provided by ILEX Project Management Ltd and designs provided by Padel Tech

Each 20m x10m padel court is illuminated using 4 x 6m floodlight masts, each mast has a 240w 37.42klm LED floodlight mounted at 0° tilt to the horizontal plane.

Floodlighting unit maintenance factor shown as 1.0 as per ILP PLG04, which represents a day one installation worse case scenario and does not factor lens grime, LED lumen deterioration or driver degradation.

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: Whole Area	382657.31	402820.56	304.00	246.00	1.50	1.50
2	Grid 2: Padel Court 3	382761.66	402930.70	20.00	10.00	1.00	1.00
3	Grid 3: Padel Court 2	382780.16	402942.58	20.00	10.00	1.00	1.00
4	Grid 4: Padel Court 4	382768.60	402919.83	20.00	10.00	1.00	1.00
5	Grid 5: Padel Court 1	382787.19	402931.60	20.00	10.00	1.00	1.00
6	Grid 6: Pickle Court	382752.61	402911.92	12.00	6.00	1.00	1.00
7	Grid 7: South residential ...	382759.57	402880.83	90.02	10.00	1.00	1.00
8	Grid 8: East residential h...	382931.23	402895.52	200.00	10.00	1.00	1.00
9	Grid 9: North woodland	382775.56	403018.44	90.00	10.00	1.00	1.00

Luminaires

Luminaire A Data

Supplier	
Type	EL-NED-240(TC)
Lamp(s)	LED 5050
Lamp Flux (klm)	37.42
File Name	EL-NED-240(TC).IES
Maintenance Factor	1.00
Lum. Int. Class	G3
No. in Project	18

Layout

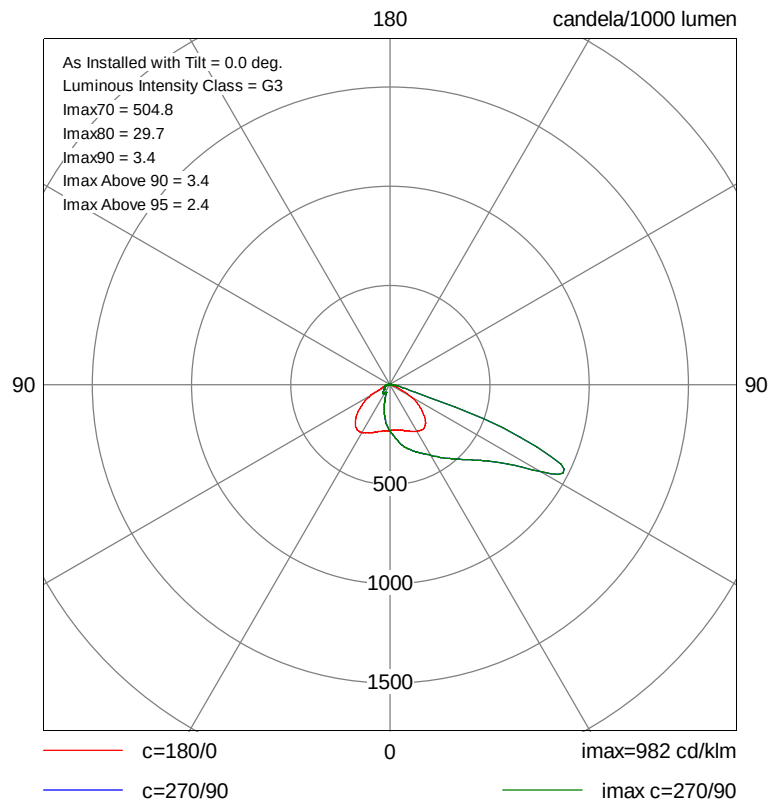
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	382759.52	402941.53	6.00	301.00	0.00	0.00	0.30			
2	A	382769.61	402947.97	6.00	304.00	0.00	0.00	0.30			
3	A	382765.19	402932.56	6.00	122.00	0.00	0.00	0.30			
4	A	382775.31	402939.05	6.00	123.00	0.00	0.00	0.30			
5	A	382778.06	402953.43	6.00	304.00	0.00	0.00	0.30			
6	A	382788.20	402959.88	6.00	300.00	0.00	0.00	0.30			
7	A	382766.46	402930.68	6.00	304.00	0.00	0.00	0.30			
8	A	382776.55	402937.14	6.00	304.00	0.00	0.00	0.30			
9	A	382785.02	402942.48	6.00	304.00	0.00	0.00	0.30			
10	A	382795.14	402948.91	6.00	304.00	0.00	0.00	0.30			
11	A	382772.17	402921.73	6.00	122.00	0.00	0.00	0.30			
12	A	382782.26	402928.21	6.00	122.00	0.00	0.00	0.30			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
13	A	382783.75	402944.45	6.00	122.00	0.00	0.00	0.30			
14	A	382793.76	402950.91	6.00	124.00	0.00	0.00	0.30			
15	A	382790.70	402933.55	6.00	122.00	0.00	0.00	0.30			
16	A	382800.84	402939.99	6.00	122.00	0.00	0.00	0.30			
21	A	382754.58	402920.93	6.00	304.00	0.00	0.00	0.30			
22	A	382757.93	402914.92	6.00	124.00	0.00	0.00	0.30			

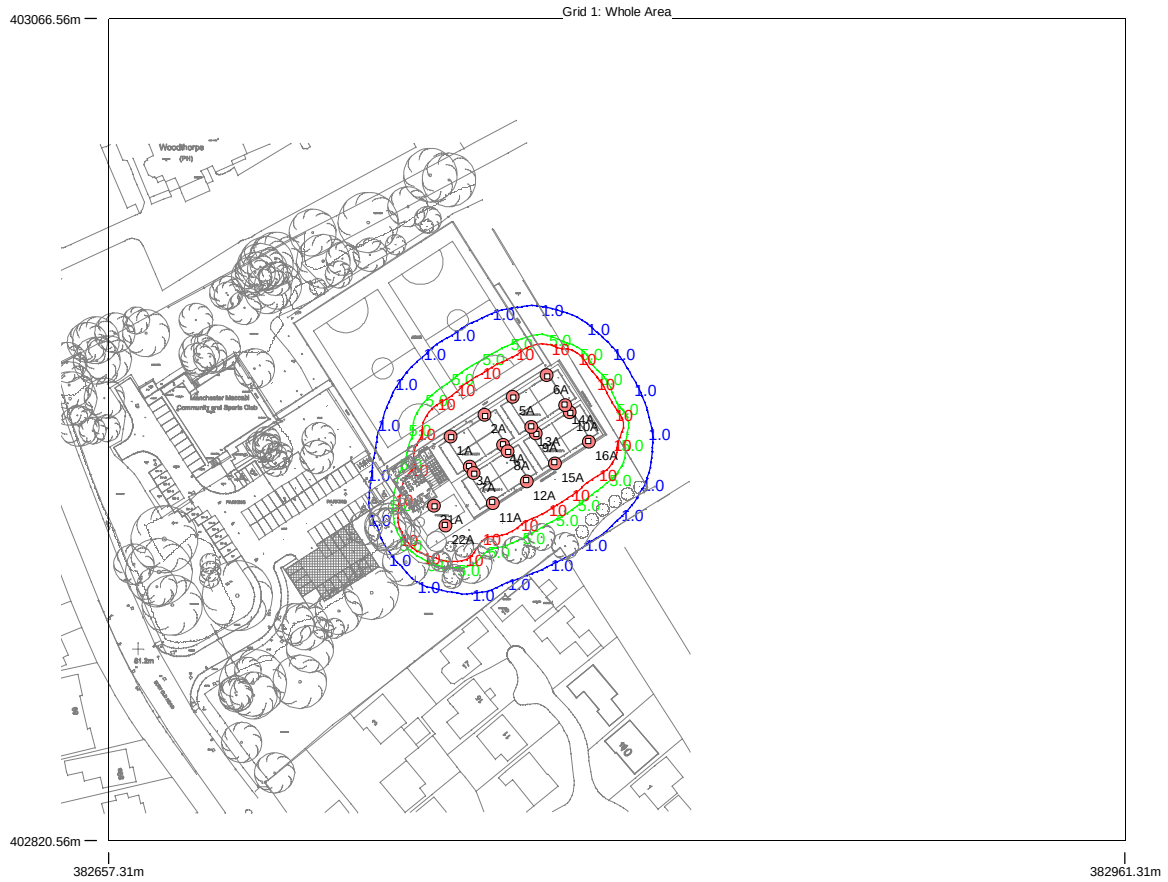
Polar Diagram

Luminaire A EL-NED-240(TC)



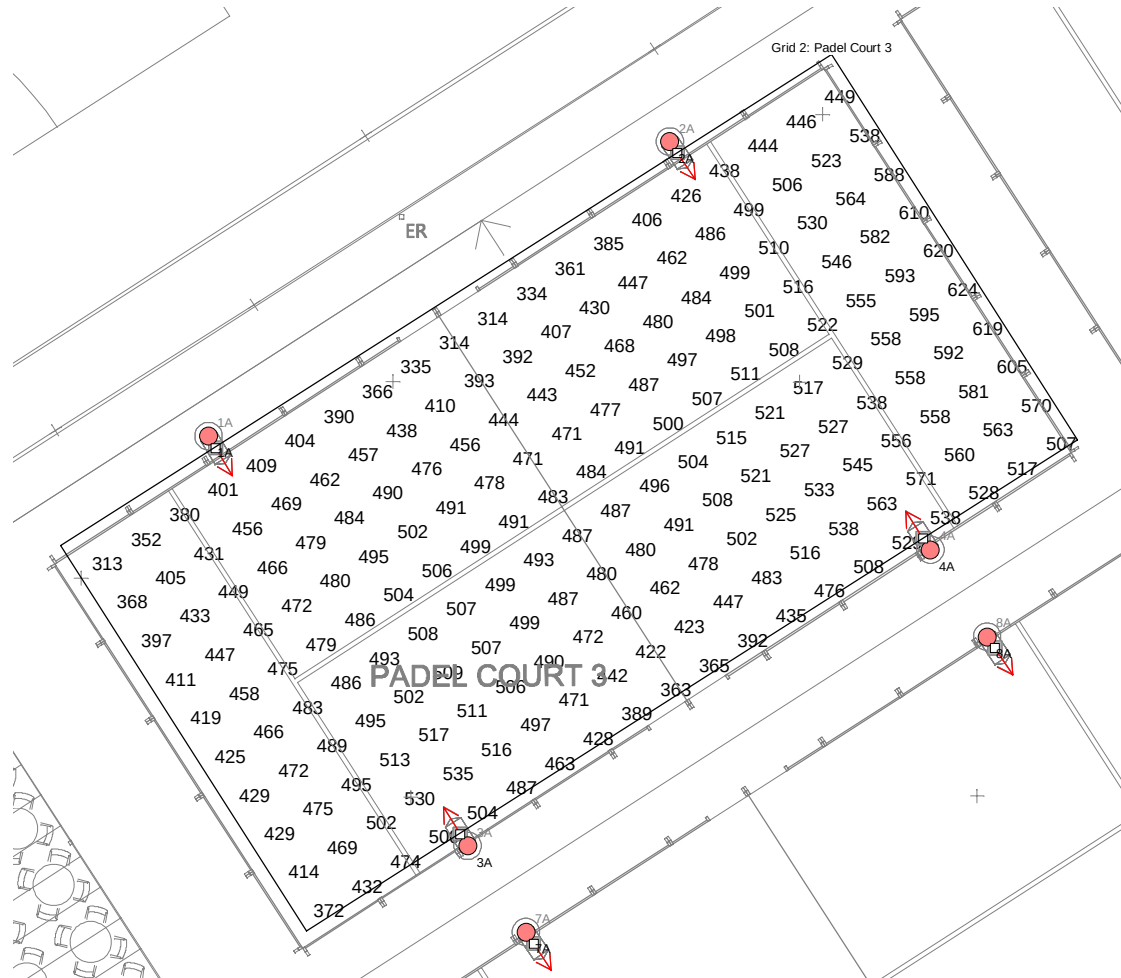
Horizontal Illuminance (lux)

Grid 1: Whole Area



Horizontal Illuminance (lux)

Grid 2: Padel Court 3



Results

Eav	480.48
Emin	313.11
Emax	623.97
Emin/Emax	0.50
Emin/Eav	0.65

Horizontal Illuminance (lux)

Grid 3: Padel Court 2

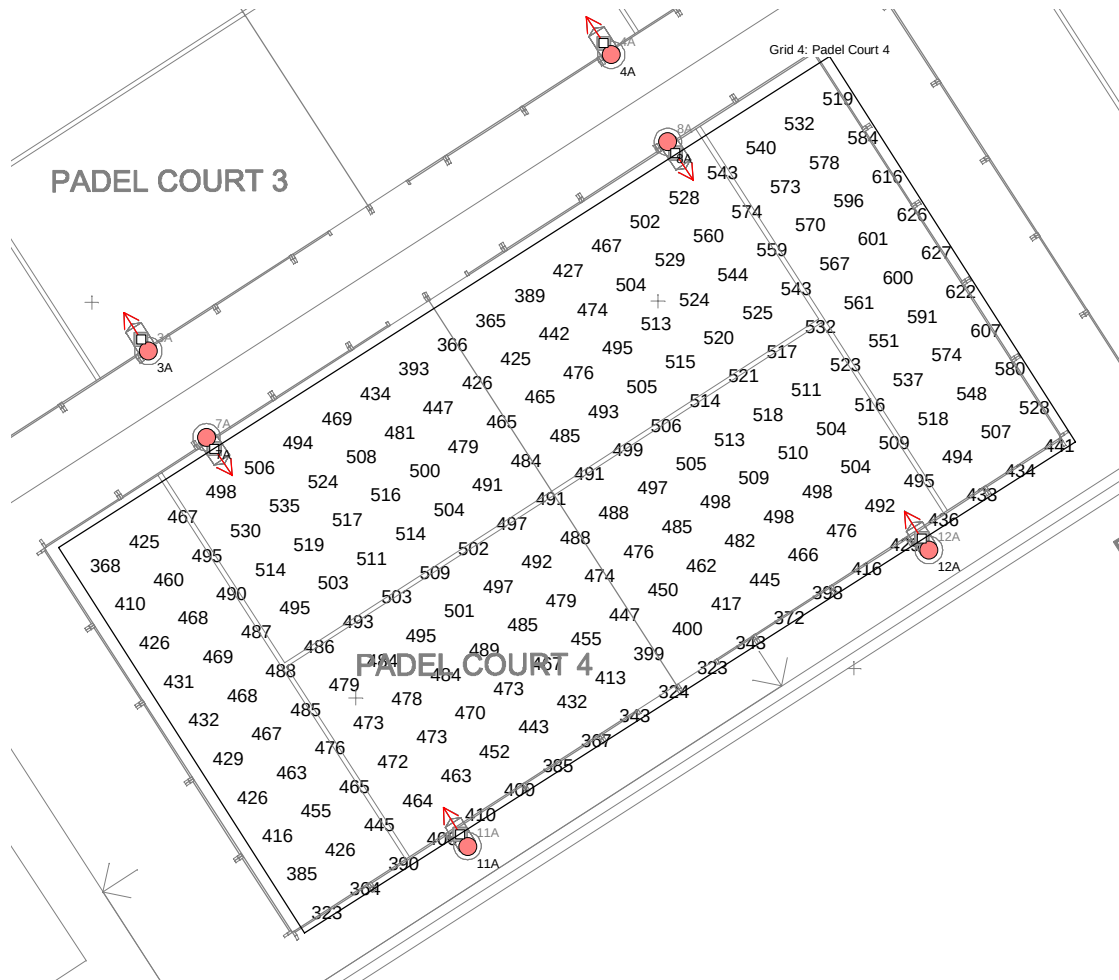


Results

Eav	485.62
Emin	309.05
Emax	627.78
Emin/Emax	0.49
Emin/Eav	0.64

Horizontal Illuminance (lux)

Grid 4: Padel Court 4

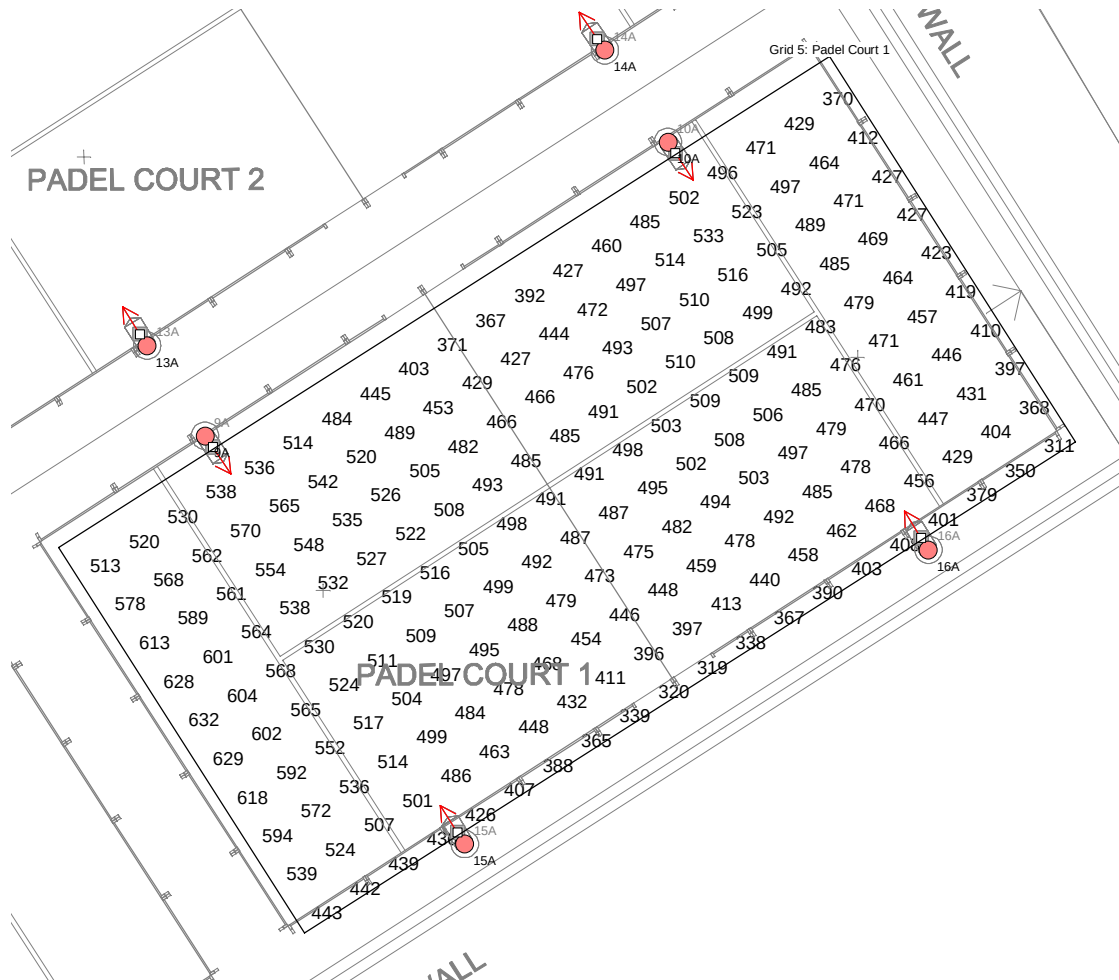


Results

Eav	482.72
Emin	322.70
Emax	626.78
Emin/Emax	0.51
Emin/Eav	0.67

Horizontal Illuminance (lux)

Grid 5: Padel Court 1

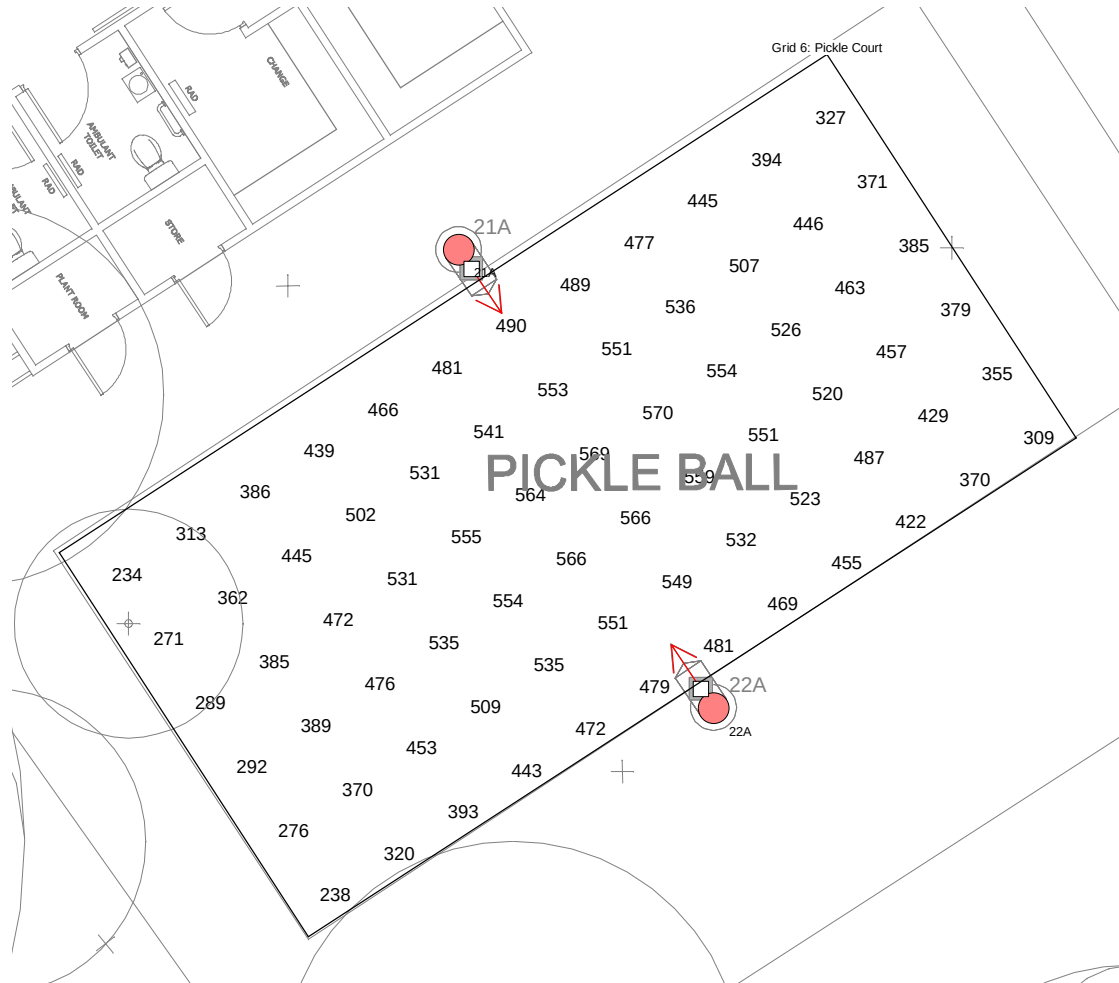


Results

Eav	482.07
Emin	311.47
Emax	632.38
Emin/Emax	0.49
Emin/Eav	0.65

Horizontal Illuminance (lux)

Grid 6: Pickle Court

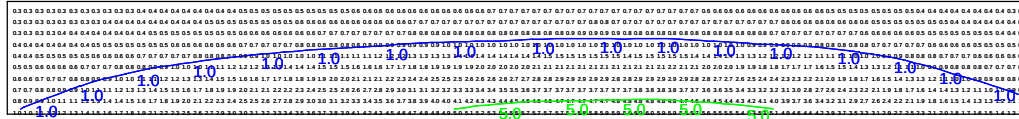


Results

Eav	453.94
Emin	234.28
Emax	569.97
Emin/Emax	0.41
Emin/Eav	0.52

Illuminance (lux)

Grid 7: South residential housing



Results

Eav	1.61
Emin	0.25
Emax	5.99
Emin/Emax	0.04
Emin/Eav	0.16

Illuminance (lux)

Grid 8: East residential housing



Results

Eav	0.13
Emin	0.04
Emax	0.25
Emin/Emax	0.15
Emin/Eav	0.29

Illuminance (lux)

Grid 9: North woodland

[illegible]

Results

Eav	0.38
Emin	0.14
E _{max}	0.89
Emin/E _{max}	0.16
Emin/Eav	0.37