

DATE: 12 May 2021
DESIGNER: Graham Sheehan
PROJECT No: SES 07521
PROJECT NAME: Aderrig Phase 2 Quintain Ireland



Designed in accordance with ISEN 13201-2:2015 Class P2 on Celbridge Link Rd. P3 on Adamstown Way and Airlie Park Rd and P4 for residential roads.

Outdoor Lighting Report

PREPARED BY: Sabre Electrical Services Ltd.
Unit 11 Bellevue Ind. Est.
Finglas
Dublin 11.
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Ph: 01 8110875

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	701424.00	733247.90	216.00	45.00	1.50	1.50
2	Grid 2	701473.00	733566.00	162.00	27.00	1.50	1.50
3	Grid 3	701441.00	733287.00	36.00	305.00	1.50	1.50
4	Grid 4	701473.00	733284.00	150.00	301.00	1.50	1.50

Luminaires

Luminaire A Data



Supplier	C U Phosco
Type	P852-12-P4-NW-CB0450-18W
Lamp(s)	740C NW
Lamp Flux (klm)	2.28
File Name	P852-12-P4-NW-CB0450-18W.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	760.6, 161.3, 0.8
No. in Project	31

Luminaire B Data



Supplier	C U Phosco
Type	P852-12-R3B-NW-CB0200-9W
Lamp(s)	740C NW
Lamp Flux (klm)	1.11
File Name	P852-12-R3B-NW-CB0200-9W.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	896.4, 62.1, 1.9
No. in Project	8

Luminaire D Data



Supplier	C U Phosco
Type	P862-256-P4-740-W5-0250-64W
Lamp(s)	740SS
Lamp Flux (klm)	9.39
File Name	P862-256-P4-740-W5-0250-64W.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	431.2, 124.0, 0.4
No. in Project	28

Luminaire E Data



Supplier	C U Phosco
Type	P862-256-P4-740-W5-0200-52W
Lamp(s)	740SS
Lamp Flux (klm)	7.52
File Name	P862-256-P4-740-W5-0200-52W.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	431.2, 124.0, 0.4
No. in Project	8

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	E	701623.00	733283.13	8.00	180.00	0.00	0.00	0.40			
2	E	701624.93	733323.70	8.00	180.00	0.00	0.00	0.40			
3	E	701626.83	733364.61	8.00	180.00	0.00	0.00	0.40			
4	E	701628.77	733406.21	8.00	180.00	0.00	0.00	0.40			
5	E	701630.95	733451.86	8.00	180.00	0.00	0.00	0.40			
6	E	701633.05	733493.15	8.00	180.00	0.00	0.00	0.40			
7	E	701634.91	733534.19	8.00	180.00	0.00	0.00	0.40			

Layout Continued

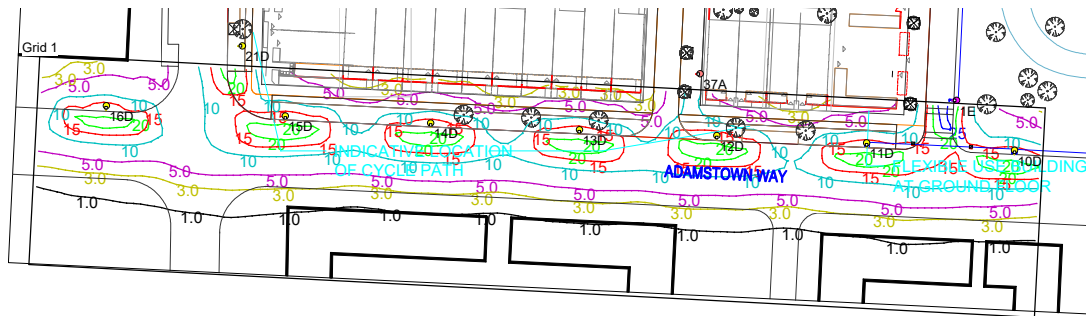
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
8	E	701637.01	733574.75	8.00	180.00	0.00	0.00	0.40			
9	D	701616.33	733585.98	10.00	92.00	0.00	0.00	0.40			
10	D	701635.48	733272.45	10.00	266.00	0.00	0.00	0.40			
11	D	701603.73	733274.00	10.00	267.00	0.00	0.00	0.40			
12	D	701571.58	733275.61	10.00	267.00	0.00	0.00	0.40			
13	D	701542.10	733276.84	10.00	265.00	0.00	0.00	0.40			
14	D	701510.20	733278.28	10.00	268.00	0.00	0.00	0.40			
15	D	701479.04	733279.80	10.00	271.00	0.00	0.00	0.40			
16	D	701440.59	733281.97	10.00	266.00	0.00	0.00	0.40			
17	D	701589.82	733595.75	10.00	275.00	0.00	0.00	0.40			
18	D	701559.80	733593.92	10.00	277.00	0.00	0.00	0.40			
19	D	701519.08	733589.07	10.00	281.00	0.00	0.00	0.40			
20	D	701484.25	733582.94	10.00	283.00	0.00	0.00	0.40			
21	D	701469.80	733294.83	10.00	183.00	0.00	0.00	0.40			
22	D	701470.10	733328.83	10.00	183.00	0.00	0.00	0.40			
23	D	701470.27	733370.35	10.00	183.00	0.00	0.00	0.40			
24	D	701470.69	733414.71	10.00	183.00	0.00	0.00	0.40			
25	D	701471.40	733464.40	10.00	183.00	0.00	0.00	0.40			
26	D	701472.01	733507.29	10.00	183.00	0.00	0.00	0.40			
27	D	701472.65	733552.26	10.00	183.00	0.00	0.00	0.40			
28	D	701470.33	733596.21	10.00	183.00	0.00	0.00	0.40			
29	D	701459.18	733572.35	10.00	1.00	0.00	0.00	0.40			
30	D	701459.22	733530.46	10.00	1.00	0.00	0.00	0.40			
31	D	701458.45	733488.09	10.00	357.00	0.00	0.00	0.40			
32	D	701457.68	733439.75	10.00	355.00	0.00	0.00	0.40			
33	D	701456.74	733386.02	10.00	1.00	0.00	0.00	0.40			
34	D	701454.77	733348.89	10.00	355.00	0.00	0.00	0.40			
35	D	701453.32	733313.55	10.00	357.00	0.00	0.00	0.40			
36	D	701403.89	733284.95	10.00	266.00	0.00	0.00	0.40			
37	A	701568.04	733288.82	6.00	184.00	0.00	0.00	0.40			
38	A	701551.26	733308.65	6.00	90.00	0.00	0.00	0.40			
39	A	701558.46	733332.99	6.00	358.00	0.00	0.00	0.40			
40	A	701559.66	733360.28	6.00	1.00	0.00	0.00	0.40			
41	A	701560.88	733386.66	6.00	357.00	0.00	0.00	0.40			
42	A	701513.14	733310.63	6.00	84.00	0.00	0.00	0.40			
43	A	701512.50	733334.22	6.00	182.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
44	A	701500.76	733346.40	6.00	1.00	0.00	0.00	0.40			
45	A	701512.24	733369.02	6.00	184.00	0.00	0.00	0.40			
46	A	701488.27	733389.62	6.00	276.00	0.00	0.00	0.40			
47	A	701516.97	733385.25	6.00	105.00	0.00	0.00	0.40			
48	A	701542.73	733389.68	6.00	103.00	0.00	0.00	0.40			
49	A	701534.68	733403.76	6.00	286.00	0.00	0.00	0.40			
50	A	701584.79	733391.70	6.00	87.00	0.00	0.00	0.40			
51	A	701593.05	733403.11	6.00	267.00	0.00	0.00	0.40			
52	A	701615.67	733390.05	6.00	91.00	0.00	0.00	0.40			
53	B	701578.31	733455.50	6.00	181.00	0.00	0.00	0.40			
54	B	701577.34	733435.72	6.00	181.00	0.00	0.00	0.40			
55	B	701576.43	733416.30	6.00	180.00	0.00	0.00	0.40			
56	A	701528.73	733414.45	6.00	179.00	0.00	0.00	0.40			
57	A	701530.35	733450.11	6.00	179.00	0.00	0.00	0.40			
58	A	701531.57	733474.03	6.00	179.00	0.00	0.00	0.40			
59	A	701485.45	733503.34	6.00	252.00	0.00	0.00	0.40			
60	A	701509.34	733487.14	6.00	73.00	0.00	0.00	0.40			
61	A	701546.62	733486.76	6.00	256.00	0.00	0.00	0.40			
62	B	701558.87	733469.60	6.00	91.00	0.00	0.00	0.40			
63	A	701589.86	733480.20	6.00	270.00	0.00	0.00	0.40			
64	A	701597.33	733467.74	6.00	91.00	0.00	0.00	0.40			
65	A	701620.65	733478.73	6.00	270.00	0.00	0.00	0.40			
66	A	701502.56	733513.03	6.00	356.00	0.00	0.00	0.40			
67	A	701502.89	733541.53	6.00	356.00	0.00	0.00	0.40			
68	A	701503.26	733571.08	6.00	356.00	0.00	0.00	0.40			
69	A	701576.27	733497.83	6.00	176.00	0.00	0.00	0.40			
70	A	701577.75	733531.21	6.00	176.00	0.00	0.00	0.40			
71	A	701580.92	733563.00	6.00	177.00	5.00	0.00	1.00			
72	B	701554.29	733418.41	6.00	356.00	0.00	0.00	0.40			
73	B	701555.14	733439.40	6.00	356.00	0.00	0.00	0.40			
74	B	701555.96	733456.74	6.00	356.00	0.00	0.00	0.40			
75	B	701486.19	733309.72	6.00	92.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1

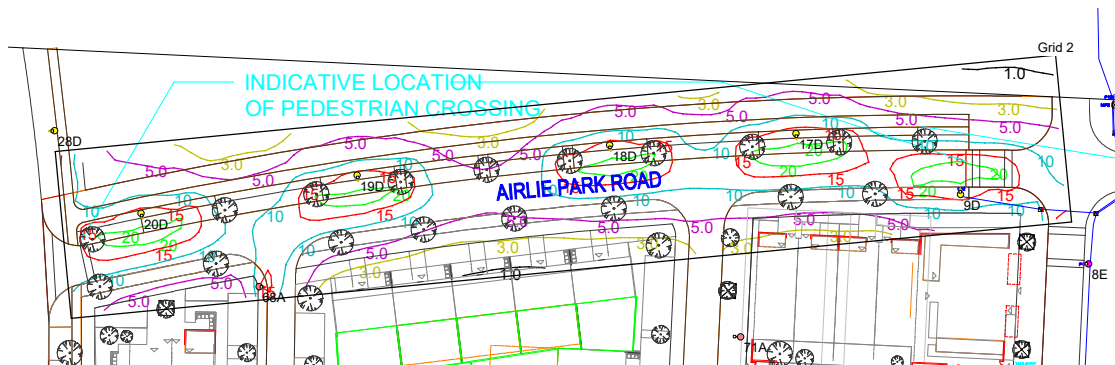


Results

Eav	9.86
Emin	2.25
Emax	23.65
Emin/Emax	0.10
Emin/Eav	0.23

Horizontal Illuminance (lux)

Grid 2

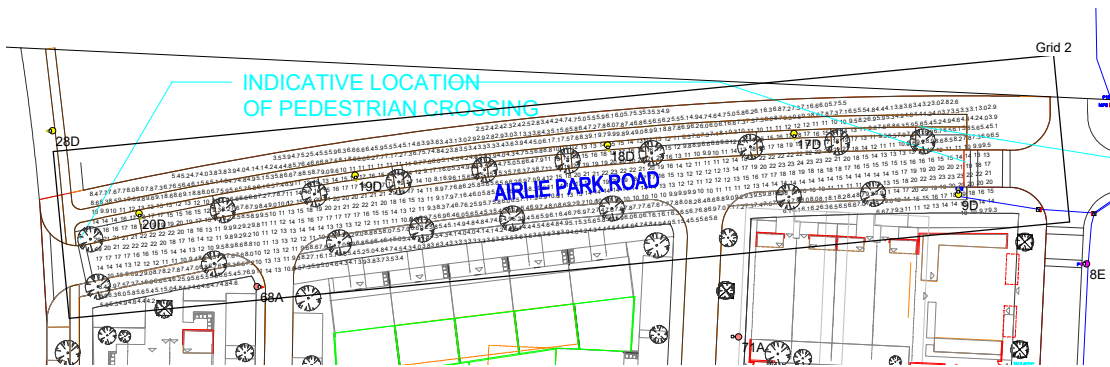


Results

Eav	10.36
Emin	2.34
Emax	23.90
Emin/Emax	0.10
Emin/Eav	0.23

Horizontal Illuminance (lux)

Grid 2

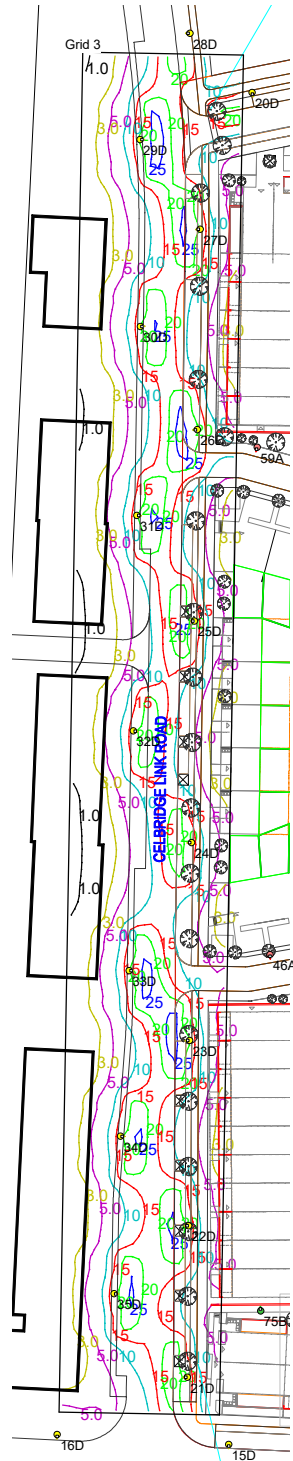


Results

Eav	10.36
Emin	2.34
Emax	23.90
Emin/Emax	0.10
Emin/Eav	0.23

Horizontal Illuminance (lux)

Grid 3

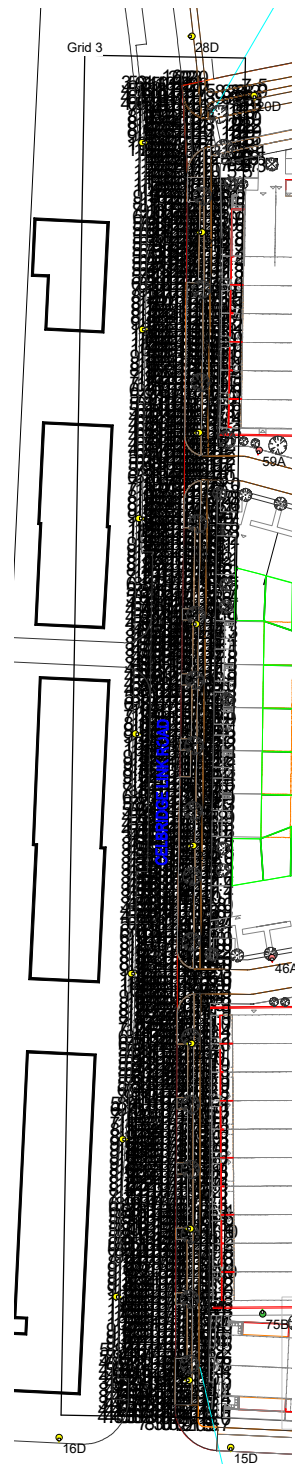


Results

Eav	13.61
Emin	3.16
Emax	28.24
Emin/Emax	0.11
Emin/Eav	0.23

Horizontal Illuminance (lux)

Grid 3

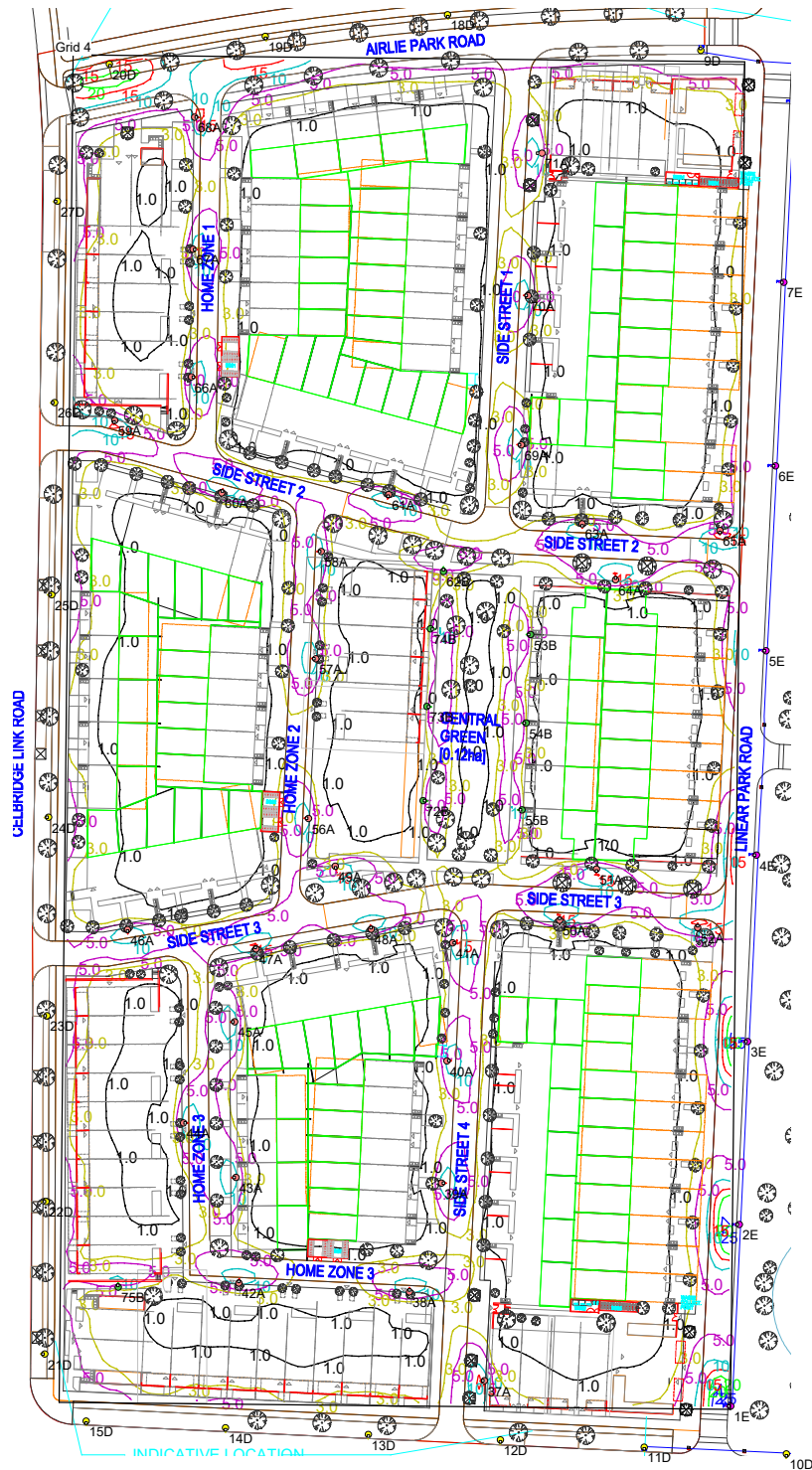


Results

Eav	13.61
Emin	3.16
E _{max}	28.24
E _{min} /E _{max}	0.11
E _{min} /E _{av}	0.23

Horizontal Illuminance (lux)

Grid 4

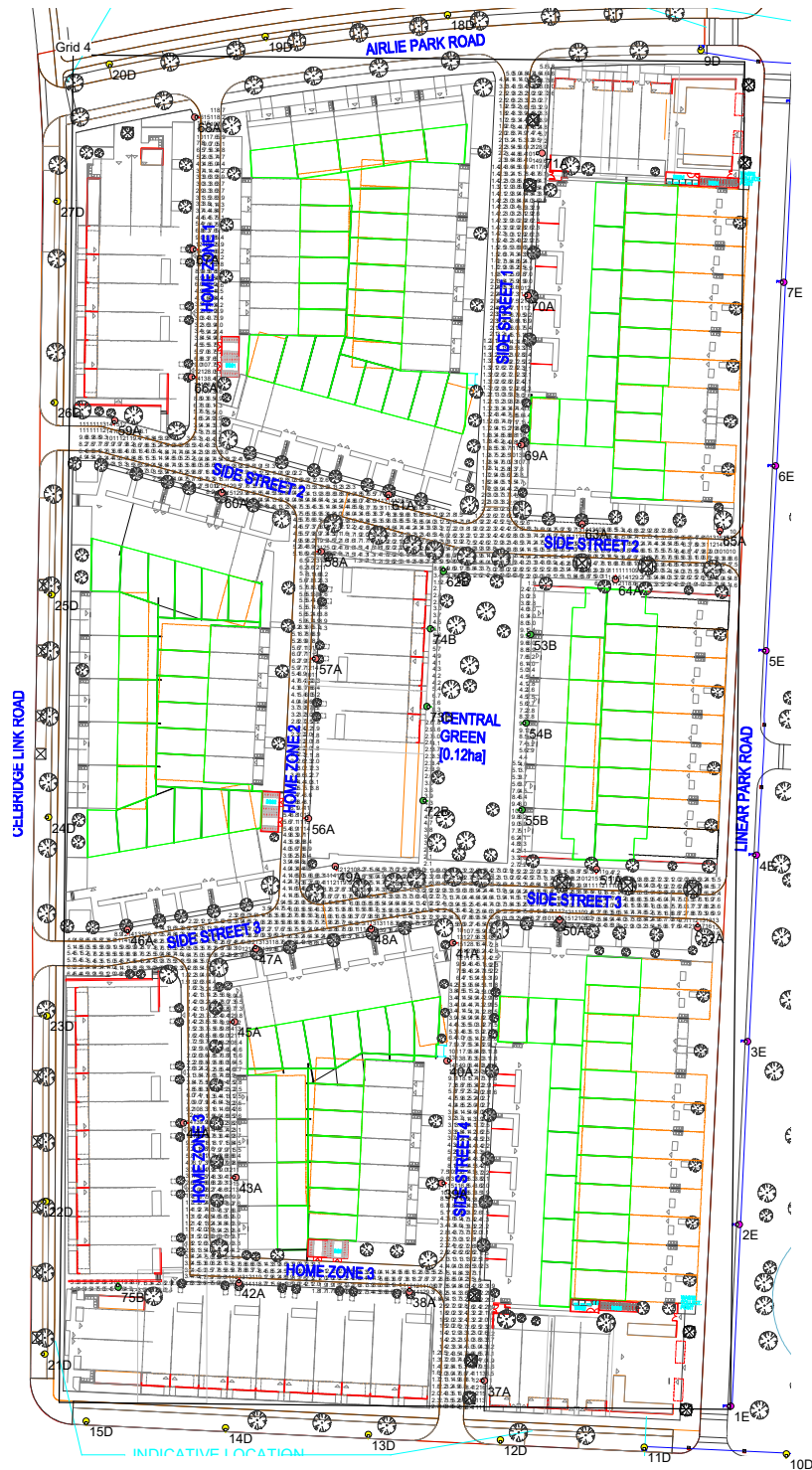


Results

Eav	5.39
Emin	1.09
Emax	16.98
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 4



Results

Eav	5.39
Emin	1.09
E _{max}	16.98
E _{min} /E _{max}	0.06
E _{min} /E _{av}	0.20