

**DATE:** 30 September 2022  
**DESIGNER:** Graham Sheehan  
**PROJECT No:** SES 14322  
**PROJECT NAME:** Aderrig Phase 3 Quintain Ireland



## Outdoor Lighting Report

**PREPARED BY:** Sabre Electrical Services 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	Grid 1	701298.00	733129.00	156.00	374.00	1.50	1.50
2	Grid 2	701356.00	733501.00	108.00	94.00	1.50	1.52
3	Grid 3	701301.00	733270.00	144.00	27.00	1.50	1.50

### Luminaires



#### Luminaire A Data

Supplier	C U Phosco
Type	P852-12-P4-NW-CB0400-17W
Lamp(s)	740C NW
Lamp Flux (klm)	2.06
File Name	P852-12-P4-NW-CB0400-17W.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	760.6, 161.3, 0.8
No. in Project	54



#### 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	11



#### Luminaire C Data

Supplier	C U Phosco
Type	P852-12-F2-NW-CB0700-27W
Lamp(s)	740C NW
Lamp Flux (klm)	3.28
File Name	P852-12-F2-NW-CB0700-27W.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	761.9, 260.5, 34.9
No. in Project	1



#### 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	8

### Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	701448.15	733452.39	6.00	87.00	0.00	0.00	0.40			
2	A	701428.00	733474.75	6.00	186.00	0.00	0.00	0.40			
3	A	701427.30	733443.84	6.00	178.00	0.00	0.00	0.40			
4	A	701428.35	733500.47	6.00	185.00	0.00	0.00	0.40			
5	A	701428.50	733521.03	6.00	185.00	0.00	0.00	0.40			
6	C	701405.18	733511.59	6.00	337.00	0.00	0.00	0.40			
7	A	701427.13	733418.01	6.00	185.00	0.00	0.00	0.40			
8	A	701426.87	733392.54	6.00	185.00	0.00	0.00	0.40			

**Layout Continued**

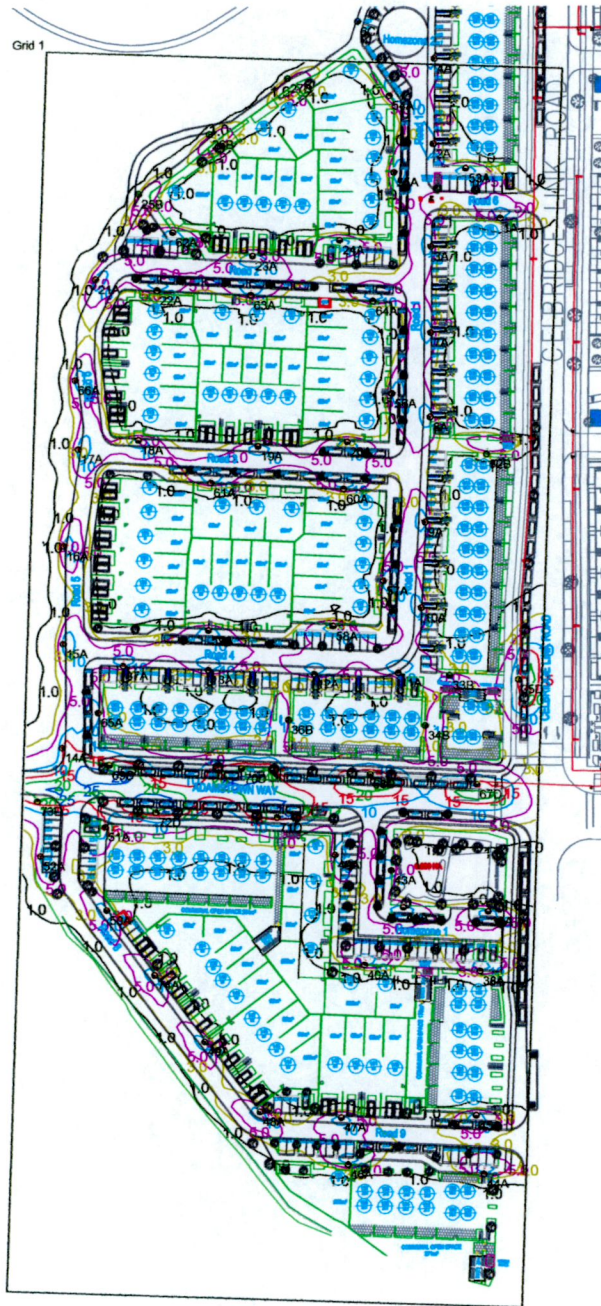
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
9	A	701425.26	733360.86	6.00	177.00	0.00	0.00	0.40			
10	A	701424.03	733335.10	6.00	185.00	0.00	0.00	0.40			
11	A	701417.02	733315.50	6.00	89.00	0.00	0.00	0.40			
12	A	701391.59	733315.23	6.00	88.00	0.00	0.00	0.40			
13	A	701359.53	733316.59	6.00	85.00	0.00	0.00	0.40			
14	A	701315.27	733293.23	6.00	4.00	0.00	0.00	0.40			
15	A	701315.60	733324.64	6.00	354.00	0.00	0.00	0.40			
16	A	701315.94	733354.13	6.00	354.00	0.00	0.00	0.40			
17	A	701320.40	733383.26	6.00	349.00	0.00	0.00	0.40			
18	A	701338.64	733385.87	6.00	269.00	0.00	0.00	0.40			
19	A	701374.83	733383.95	6.00	271.00	0.00	0.00	0.40			
20	A	701401.78	733385.14	6.00	270.00	0.00	0.00	0.40			
21	A	701325.70	733434.25	6.00	328.00	0.00	0.00	0.40			
22	A	701344.35	733430.86	6.00	86.00	0.00	0.00	0.40			
23	A	701373.32	733441.17	6.00	269.00	0.00	0.00	0.40			
24	A	701399.67	733445.86	6.00	269.00	0.00	0.00	0.40			
25	B	701338.80	733459.90	6.00	324.00	0.00	0.00	0.40			
26	B	701360.29	733477.73	6.00	305.00	0.00	0.00	0.40			
27	B	701383.84	733494.48	6.00	305.00	0.00	0.00	0.40			
28	B	701432.22	733549.55	6.00	326.00	0.00	0.00	0.40			
29	B	701448.16	733581.36	6.00	336.00	0.00	0.00	0.40			
30	B	701440.02	733564.58	6.00	336.00	0.00	0.00	0.40			
31	B	701442.76	733538.45	6.00	268.00	0.00	0.00	0.40			
32	B	701443.96	733381.36	6.00	85.00	0.00	0.00	0.40			
33	B	701432.53	733314.75	6.00	265.00	0.00	0.00	0.40			
34	B	701425.09	733299.56	6.00	354.00	0.00	0.00	0.40			
35	D	701453.37	733313.36	10.00	354.00	0.00	0.00	0.40			
36	B	701383.83	733301.46	6.00	175.00	0.00	0.00	0.40			
37	A	701333.82	733317.95	6.00	90.00	0.00	0.00	0.40			
38	A	701441.54	733225.71	6.00	85.00	0.00	0.00	0.40			
39	A	701443.99	733243.45	6.00	265.00	0.00	0.00	0.40			
40	A	701406.63	733227.68	6.00	82.00	0.00	0.00	0.40			
41	A	701418.39	733244.78	6.00	267.00	0.00	0.00	0.40			
42	A	701397.79	733260.67	6.00	354.00	0.00	0.00	0.40			
43	A	701414.80	733255.91	6.00	177.00	0.00	0.00	0.40			
44	A	701442.45	733164.10	6.00	86.00	0.00	0.00	0.40			

**Layout Continued**

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
45	A	701440.15	733181.72	6.00	271.00	0.00	0.00	0.40			
46	A	701401.35	733167.00	6.00	89.00	0.00	0.00	0.40			
47	A	701399.34	733181.27	6.00	269.00	0.00	0.00	0.40			
48	A	701374.77	733183.02	6.00	236.00	0.00	0.00	0.40			
49	A	701358.09	733204.46	6.00	215.00	0.00	0.00	0.40			
50	A	701328.60	733244.28	6.00	216.00	0.00	0.00	0.40			
51	A	701328.22	733269.39	6.00	182.00	0.00	0.00	0.40			
52	A	701308.62	733260.61	6.00	354.00	0.00	0.00	0.40			
53	A	701437.79	733467.30	6.00	271.00	0.00	0.00	0.40			
54	A	701414.69	733489.25	6.00	38.00	0.00	0.00	0.40			
55	A	701416.00	733466.16	6.00	354.00	0.00	0.00	0.40			
56	A	701415.30	733399.59	6.00	354.00	0.00	0.00	0.40			
57	A	701412.64	733343.22	6.00	354.00	0.00	0.00	0.40			
58	A	701397.37	733329.62	6.00	264.00	0.00	0.00	0.40			
59	A	701359.60	733328.40	6.00	267.00	0.00	0.00	0.40			
60	A	701400.63	733370.94	6.00	87.00	0.00	0.00	0.40			
61	A	701360.47	733372.89	6.00	86.00	0.00	0.00	0.40			
62	A	701349.12	733448.34	6.00	265.00	0.00	0.00	0.40			
63	A	701372.75	733429.39	6.00	86.00	0.00	0.00	0.40			
64	A	701409.61	733427.46	6.00	87.00	0.00	0.00	0.40			
65	A	701326.18	733303.85	6.00	179.00	0.00	0.00	0.40			
66	A	701319.46	733403.94	6.00	354.00	0.00	0.00	0.40			
67	D	701440.73	733281.78	10.00	267.00	0.00	0.00	0.40			
68	D	701408.49	733285.00	10.00	266.00	0.00	0.00	0.40			
69	D	701329.52	733288.02	10.00	266.00	0.00	0.00	0.40			
70	D	701369.49	733286.88	10.00	272.00	0.00	0.00	0.40			
71	D	701380.23	733272.09	10.00	87.00	0.00	0.00	0.40			
72	D	701343.56	733273.72	10.00	86.00	0.00	0.00	0.40			
73	D	701307.68	733277.24	10.00	86.00	0.00	0.00	0.40			
74	A	701343.08	733224.83	6.00	216.00	0.00	0.00	0.40			

## Horizontal Illuminance (lux)

Grid 1



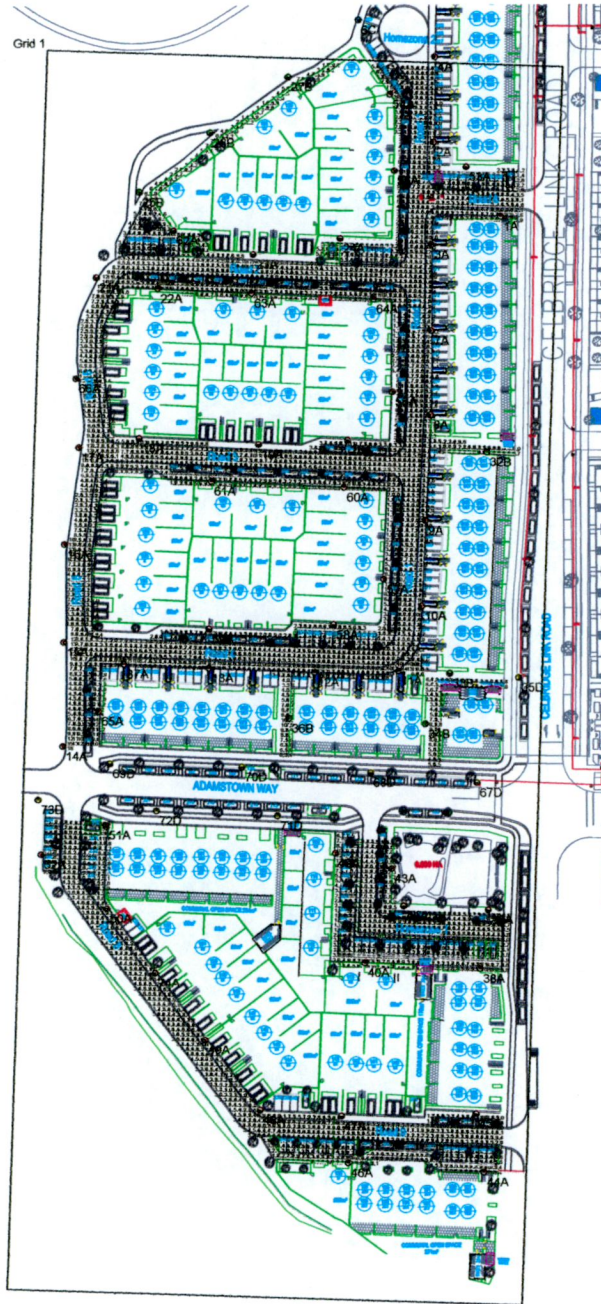
### Results

Eav	5.73
Emin	1.19
Emax	17.76
Emin/Emax	0.07
Emin/Eav	0.21

815584720

## Horizontal Illuminance (lux)

Grid 1



### Results

Eav	5.73
Emin	1.19
Emax	17.76
Emin/Emax	0.07
Emin/Eav	0.21

8158647201

## Horizontal Illuminance (lux)

Grid 2



### Results

Eav	5.85
Emin	1.34
E <sub>max</sub>	14.42
Emin/E <sub>max</sub>	0.09
Emin/Eav	0.23

## Horizontal Illuminance (lux)

Grid 2



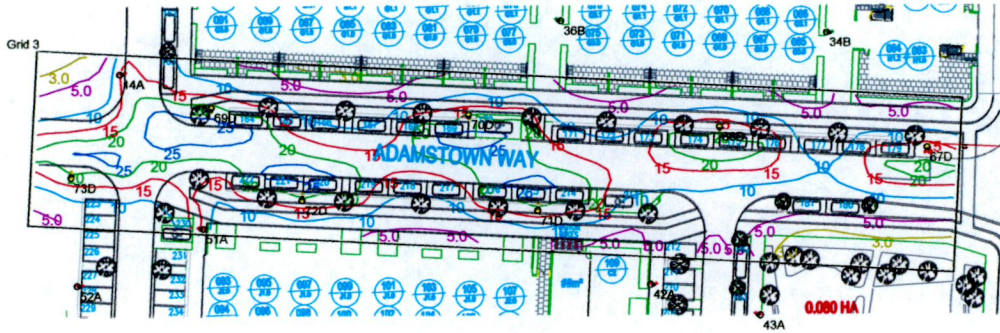
### Results

Eav	5.85
Emin	1.34
E <sub>max</sub>	14.42
Emin/E <sub>max</sub>	0.09
Emin/Eav	0.23



## Horizontal Illuminance (lux)

Grid 3

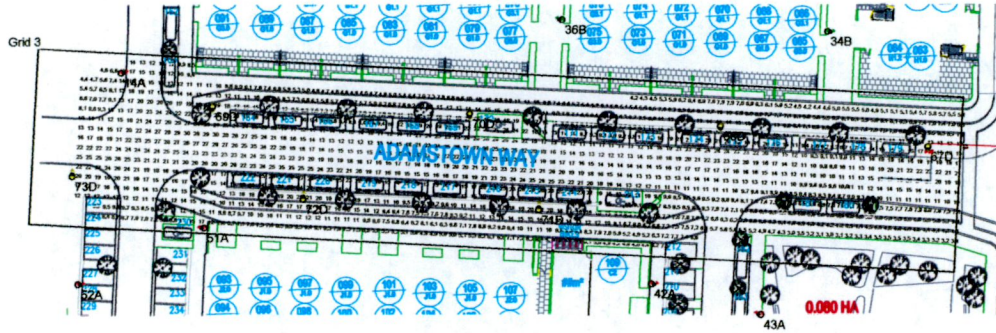


### Results

Eav	13.62
Emin	3.01
Emax	29.66
Emin/Emax	0.10
Emin/Eav	0.22

## Horizontal Illuminance (lux)

Grid 3



### Results

Eav	13.62
Emin	3.01
Emax	29.66
Emin/Emax	0.10
Emin/Eav	0.22

