

DATE: Feb 2022
DESIGNER: Alex Naper
PROJECT No: SES 14820-3 Rev B
PROJECT NAME: Ballymany, Newbridge, Co. Kildare



Project Name: SHD for lands at Ballymany, Newbridge, Co. Kildare
- Briargate Development Newbridge Limited

Residential area designed in accordance with EN13201-2:2015
Category P4.

Rev A: Updated suit layout.
Rev B: Client name updated.

Outdoor Lighting Report

PREPARED BY: Sabre Electrical Services Ltd.
Unit 11,
Bellview Industrial Estate,
Tolka Valley Road,
Dublin 11
Phone Number: 01 8110875
Contact: Graham Sheehan
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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	678799.64	713978.74	319.29	269.18	1.50	1.50
2	Grid 2	678949.76	713755.82	319.29	269.18	1.50	1.50

Luminaires



Luminaire A Data

Supplier	C U Phosco
Type	P852-12-P4-WW-CA0550-21W
Lamp(s)	730C WW
Lamp Flux (klm)	2.56
File Name	P852-12-P4-WW-CA0550-21W.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	730.4, 161.4, 0.8
No. in Project	3

Luminaire B Data

Supplier	C U Phosco
Type	E950-28-P4A-730-C550-14W
Lamp(s)	730N
Lamp Flux (klm)	2.08
File Name	E950-28-P4A-730-C0550-14W.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	659.3, 183.1, 0.3
No. in Project	63



Luminaire C Data

Supplier	C U Phosco
Type	E950-28-P4A-730-C250-8W
Lamp(s)	730N
Lamp Flux (klm)	0.98
File Name	E950-28-P4A-730-C0250-8W.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	659.3, 183.1, 0.3
No. in Project	7

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	6

Luminaire E Data

Supplier	C U Phosco
Type	E950-28-F2A-730-C550-14W
Lamp(s)	730N
Lamp Flux (klm)	2.11
File Name	E950-28-F2A-730-C0550-14W.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	623.6, 113.9, 0.3
No. in Project	4

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	679001.83	713887.29	6.00	37.00	5.00	0.00	0.40			
2	B	678985.15	713912.05	6.00	27.00	0.00	0.00	0.40			
3	B	678962.96	713895.87	6.00	124.00	0.00	0.00	0.40			
4	B	678937.20	713899.24	6.00	300.00	0.00	0.00	0.40			
5	B	678967.81	713919.73	6.00	305.00	0.00	0.00	0.40			
6	B	678982.85	713931.70	6.00	35.00	0.00	0.00	0.40			
7	B	678992.72	713953.99	6.00	212.00	0.00	0.00	0.40			
8	B	678992.08	713921.93	6.00	128.00	0.00	0.00	0.40			
9	B	678937.71	713963.40	6.00	305.00	0.00	0.00	0.40			
10	B	678925.40	713941.42	6.00	127.00	0.00	0.00	0.40			
11	B	678899.51	713937.87	6.00	302.00	0.00	0.00	0.40			
12	B	678957.84	713995.69	6.00	211.00	0.00	0.00	0.40			
13	B	679039.92	714033.80	6.00	28.00	0.00	0.00	0.40			
14	B	678926.75	714041.40	6.00	218.00	0.00	0.00	0.40			
15	B	678960.57	714032.87	6.00	116.00	0.00	0.00	0.40			
16	B	678891.28	714011.36	6.00	122.00	0.00	0.00	0.40			
17	B	679018.63	714061.27	6.00	115.00	0.00	0.00	0.40			
18	B	678993.64	714049.51	6.00	118.00	0.00	0.00	0.40			
19	B	679026.96	714067.80	6.00	210.00	0.00	0.00	0.40			
20	B	679064.76	714026.32	6.00	299.00	0.00	0.00	0.40			
21	B	679048.36	714011.73	6.00	298.00	0.00	0.00	0.40			
22	B	679015.20	713989.25	6.00	307.00	0.00	0.00	0.40			
23	C	678986.85	713981.15	5.00	304.00	0.00	0.00	0.40			
24	C	679004.73	713976.27	5.00	34.00	0.00	0.00	0.40			
25	C	679018.23	713956.14	5.00	32.00	0.00	0.00	0.40			
26	B	678964.45	713959.39	6.00	30.00	0.00	0.00	0.40			
27	B	679011.64	714095.02	6.00	212.00	0.00	0.00	0.40			
28	B	679019.14	713940.16	6.00	303.00	0.00	0.00	0.40			
29	B	679042.12	713954.25	6.00	306.00	0.00	0.00	0.40			
30	B	679074.03	713975.60	6.00	304.00	0.00	0.00	0.40			
31	A	679114.85	713946.22	6.00	207.00	5.00	0.00	0.40			
32	B	679100.20	713971.15	6.00	211.00	0.00	0.00	0.40			
33	B	678908.36	714052.71	6.00	31.00	0.00	0.00	0.40			
34	B	678917.07	714028.93	6.00	124.00	0.00	0.00	0.40			
35	B	678865.49	713994.40	6.00	125.00	0.00	0.00	0.40			
36	D	678925.20	713888.05	8.00	34.00	5.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
37	B	678959.69	713964.35	6.00	124.00	0.00	0.00	0.40			
38	D	678901.07	713919.63	8.00	35.00	5.00	0.00	0.40			
39	D	678850.92	713983.54	8.00	35.00	5.00	0.00	0.40			
40	D	678875.67	713951.93	8.00	35.00	5.00	0.00	0.40			
41	A	679025.35	713862.67	6.00	37.00	5.00	0.00	0.40			
42	B	678893.26	714081.45	6.00	29.00	0.00	0.00	0.40			
43	B	678907.18	714090.89	6.00	293.00	0.00	0.00	0.40			
44	B	678940.31	714106.58	6.00	293.00	0.00	0.00	0.40			
45	B	678973.08	714123.44	6.00	293.00	0.00	0.00	0.40			
46	C	678910.08	714215.93	5.00	28.00	0.00	0.00	0.40			
47	C	678921.45	714193.19	5.00	28.00	0.00	0.00	0.40			
48	B	678993.02	714125.43	6.00	204.00	0.00	0.00	0.40			
49	B	678960.13	714178.17	6.00	219.00	0.00	0.00	0.40			
50	B	678979.05	714150.64	6.00	200.00	0.00	0.00	0.40			
51	B	678942.78	714177.65	6.00	117.00	0.00	0.00	0.40			
52	B	678910.45	714161.89	6.00	113.00	0.00	0.00	0.40			
53	B	678878.19	714145.21	6.00	113.00	0.00	0.00	0.40			
54	B	678946.82	714204.16	6.00	205.00	0.00	0.00	0.40			
55	B	678934.17	714231.85	6.00	210.00	0.00	0.00	0.40			
56	B	678942.70	714248.66	6.00	295.00	0.00	0.00	0.40			
57	B	678911.16	714227.18	6.00	94.00	0.00	0.00	0.40			
58	B	678881.99	714223.60	6.00	115.00	0.00	0.00	0.40			
59	B	678858.02	714213.01	6.00	117.00	0.00	0.00	0.40			
60	B	678841.22	714200.39	6.00	209.00	0.00	0.00	0.40			
61	B	678854.36	714175.47	6.00	210.00	0.00	0.00	0.40			
62	B	678867.95	714150.37	6.00	210.00	0.00	0.00	0.40			
63	B	678844.19	714162.42	6.00	299.00	0.00	0.00	0.40			
64	B	678813.14	714143.02	6.00	298.00	0.00	0.00	0.40			
65	B	678784.05	714123.82	6.00	310.00	0.00	0.00	0.40			
66	C	679054.11	713974.31	5.00	88.00	0.00	0.00	0.40			
67	C	679029.89	713984.60	5.00	48.00	0.00	0.00	0.40			
69	D	678765.33	714113.88	8.00	35.00	5.00	0.00	0.40			
70	D	678809.99	714052.53	8.00	38.00	5.00	0.00	0.40			
71	B	678818.50	714062.71	6.00	303.00	0.00	0.00	0.40			
72	B	678850.39	714072.78	6.00	121.00	0.00	0.00	0.40			
73	B	678860.57	714091.12	6.00	306.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
74	B	678886.12	714115.16	6.00	213.00	0.00	0.00	0.40			
75	B	678884.96	714093.05	6.00	113.00	0.00	0.00	0.40			
76	B	678868.27	714128.93	6.00	29.00	0.00	0.00	0.40			
77	B	678818.76	714191.10	6.00	115.00	0.00	0.00	0.40			
78	B	678781.45	714178.76	6.00	304.00	0.00	0.00	0.40			
79	B	678754.98	714161.14	6.00	302.00	0.00	0.00	0.40			
80	E	678784.99	714194.87	6.00	36.00	0.00	0.00	0.40			
81	E	678768.46	714172.89	6.00	215.00	0.00	0.00	0.40			
82	E	678755.24	714193.07	6.00	212.00	0.00	0.00	0.40			
83	E	678770.84	714215.62	6.00	31.00	0.00	0.00	0.40			
85	B	678942.20	714019.52	6.00	214.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1



Results

Eav	5.33
Emin	1.07
E _{max}	17.63
E _{min} /E _{max}	0.06
E _{min} /E _{av}	0.20

Horizontal Illuminance (lux)

Grid 2



Results

Eav	5.24
Emin	1.03
Emax	18.63
Emin/Emax	0.06
Emin/Eav	0.20