

DATE: 8 April 2022
DESIGNER: Jacek Maslowski
PROJECT No: OP191677LD17173
PROJECT NAME: Fosterstow North SHD

Schröder
Experts in lightability™

The scheme has been designed to:

Roads and footpaths // BS 5489-1:2020, P4
5.00 - 7.50 lux average, 1.0 lux minimum

Maintenance factor calculated as per GN11:
0.81

Outdoor Lighting Report

This design has been prepared in accordance with the HEA/HEMSA Guidance Note - CDM2015 Regulations, Issue 1.1 dated 09/04/15 - Procedure 2 for an outline design. The information in this report does not account for installation considerations, site conditions or provide any form of risk assessment. Urbis' design service is advisory only and it is the responsibility of the recipient of this information to verify that the design is suitable for the intended application. No account is taken for the blocking effect caused by buildings, trees etc. The calculation shown assumes that the whole area considered is in the same plane.

PREPARED BY: Urbis Schreder Limited
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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	P4	1976.18	973.71	316.18	305.01	1.50	1.50
2	P4	1975.95	974.49	316.86	304.23	1.49	1.50

Luminaires

Luminaire B Data



Supplier	Schröder
Type	SHUFFLE 360 LGT GEN2 5119 PMMA Smooth Flat Cylindrical Symmet
Lamp(s)	16 XP-G3@500mA NW 740 230V 01-37-043
LampFlux(klm)/Colour	3.33 NW 4000K/70
File Name	SHUFFLE 360 LGT GEN2 5119 16 XP-G3 500mA NW 740 25.8W 49294S PMMA Sm...
Maintenance Factor	0.81
Imax70,80,90(cd/klm)	367.8, 70.1, 11.1
No. in Project	26

Luminaire C Data



Supplier	Schröder
Type	AXIA 3.1 5293 Integrated lenses 16 OSLO N SQUARE GIANT@700mA
Lamp(s)	16 OSLO N SQUARE GIANT@700mA WW 730 230V 00-53-397
LampFlux(klm)/Colour	4.47 3000K/70
File Name	AXIA 3.1 5293 16 OSLO N SQUARE GIANT 700mA WW 730 35.6W 439822 Integrated ...
Maintenance Factor	0.81
Imax70,80,90(cd/klm)	617.9, 19.7, 0.0
No. in Project	12

Luminaire E Data



Supplier	Schröder
Type	SHUFFLE 360 LGT GEN2 5244 PMMA Smooth Flat Cylindrical Back L
Lamp(s)	16 XP-G3@350mA WW 730 230V 01-37-043
LampFlux(klm)/Colour	1.95 WW 3000K/70
File Name	SHUFFLE 360 LGT GEN2 5244 16 XP-G3 350mA WW 730 18.1W 493582 PMMA S...
Maintenance Factor	0.81
Imax70,80,90(cd/klm)	974.2, 535.4, 29.1
No. in Project	14

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	C	2166.61	1044.55	8.00	279.00	0.00	0.00	0.50			
2	C	2141.25	1040.96	8.00	274.00	0.00	0.00	0.50			
3	C	2114.16	1037.94	8.00	274.00	0.00	0.00	0.50			
4	C	2085.97	1034.31	8.00	277.00	0.00	0.00	0.50			
5	C	2058.08	1033.30	6.00	6.00	5.00	0.00	0.50			
6	C	2047.95	999.58	8.00	279.00	0.00	0.00	0.50			
7	C	2020.83	989.64	6.00	7.00	5.00	0.00	0.50			
8	C	2062.92	1070.71	8.00	198.00	0.00	0.00	0.50			
9	C	2056.28	1097.29	8.00	195.00	0.00	0.00	0.50			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
10	B	2137.29	1062.02	5.00	5.00	0.00	0.00	0.00			
11	C	2076.93	1002.14	8.00	189.00	0.00	0.00	0.50			
12	C	2190.62	1043.79	8.00	262.00	0.00	0.00	0.50			
13	C	2046.17	1127.52	8.00	195.00	0.00	0.00	0.50			
14	B	2134.65	1084.21	5.00	5.00	0.00	0.00	0.00			
15	B	2140.55	1107.68	5.00	5.00	0.00	0.00	0.00			
16	B	2137.68	1126.93	5.00	5.00	0.00	0.00	0.00			
17	B	2129.77	1140.58	5.00	5.00	0.00	0.00	0.00			
18	B	2126.98	1160.42	5.00	5.00	0.00	0.00	0.00			
19	B	2167.75	1095.73	5.00	5.00	0.00	0.00	0.00			
20	B	2172.56	1119.25	5.00	5.00	0.00	0.00	0.00			
21	B	2169.90	1142.20	5.00	5.00	0.00	0.00	0.00			
22	B	2186.90	1151.22	5.00	5.00	0.00	0.00	0.00			
23	B	2172.34	1160.06	5.00	5.00	0.00	0.00	0.00			
24	B	2193.67	1179.69	5.00	5.00	0.00	0.00	0.00			
25	B	2201.85	1127.29	5.00	355.00	0.00	0.00	0.00			
26	B	2110.22	1102.08	5.00	5.00	0.00	0.00	0.00			
27	B	2076.24	1064.79	5.00	25.00	0.00	0.00	0.00			
28	B	2082.21	1095.52	5.00	5.00	0.00	0.00	0.00			
29	B	2074.56	1119.90	5.00	20.00	0.00	0.00	0.00			
30	B	2091.12	1142.57	5.00	5.00	0.00	0.00	0.00			
31	E	2261.27	1252.28	5.00	265.00	0.00	0.00	0.00			
32	E	2228.81	1240.67	5.00	295.00	0.00	0.00	0.00			
33	E	2197.67	1224.11	5.00	295.00	0.00	0.00	0.00			
34	E	2166.45	1207.66	5.00	295.00	0.00	0.00	0.00			
35	E	2139.67	1183.82	5.00	320.00	0.00	0.00	0.00			
36	E	2108.75	1168.50	5.00	280.00	0.00	0.00	0.00			
37	E	2080.04	1157.31	5.00	310.00	0.00	0.00	0.00			
38	E	2054.39	1146.56	5.00	290.00	0.00	0.00	0.00			
39	E	2017.20	1131.59	5.00	285.00	0.00	0.00	0.00			
40	E	1984.00	1120.77	5.00	285.00	0.00	0.00	0.00			
41	B	2103.07	1075.03	5.00	10.00	0.00	0.00	0.00			
42	B	2096.09	1122.85	5.00	10.00	0.00	0.00	0.00			
43	B	2198.72	1074.89	5.00	345.00	0.00	0.00	0.00			
44	B	2158.29	1067.08	5.00	80.00	0.00	0.00	0.00			
45	B	2186.10	1062.77	5.00	80.00	0.00	0.00	0.00			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
46	E	2209.08	1108.80	5.00	345.00	0.00	0.00	0.00			
47	E	2219.40	1141.36	5.00	345.00	0.00	0.00	0.00			
48	E	2234.36	1181.28	5.00	340.00	0.00	0.00	0.00			
49	B	2242.40	1202.11	5.00	335.00	0.00	0.00	0.00			
50	B	2216.66	1191.79	5.00	345.00	0.00	0.00	0.00			
51	B	2205.86	1214.86	5.00	345.00	0.00	0.00	0.00			
52	E	2256.22	1227.13	5.00	325.00	0.00	0.00	0.00			

Horizontal Illuminance (lux)

P4



Results

Eav	5.07
Emin	1.05
Emax	14.50
Emin/Emax	0.07
Emin/Eav	0.21

Horizontal Illuminance (lux)

P4



Results

Eav	5.16
Emin	1.02
Emax	20.35
Emin/Emax	0.05
Emin/Eav	0.20

Horizontal Illuminance (lux)

P4





Schröder
Experts in lightability™

PROJECT NAME: Fosterstown North SHD

PROJECT No: OP191677LD17173

SCALE: 1:500 DATE: 8 April 2022

CALCULATION: Horizontal Illuminance (lux)

DESIGNER: Jacek Maslowski

The scheme has been designed to:
Roads and footpaths / BS 5489-1:2020, P4
5.00 - 7.50 lux average, 1.0 lux minimum

Maintenance factor calculated as per GN11:
0.81

This design has been prepared in accordance with the BS 5489-1:2020, Part 1:2020, Procedure 1 for an outdoor design. The assessment, site design service is advisory only and is the responsibility of the recipient of this information to verify that the design is suitable for the intended application. No account is taken for the blocking effect caused by buildings, trees etc. The calculation above assumes that the whole area considered is in the same plane.

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Results P4	
Eav	5.07
Emin	1.05
Emax	14.50
Emin/Emax	0.07
Emin/Eav	0.21
Results P4	
Eav	5.16
Emin	1.02
Emax	20.35
Emin/Emax	0.05
Emin/Eav	0.20

Type	Luminaire B	Luminaire C	Luminaire E
Type	SHIFFER 901 (CY) CF2P2 5118 P	AXIA 1 10841 Intersected luminaire	SHIFFER 901 (CY) CF2P2 5344 P
Lamp(s)	1x 100W 230V 2300lm	1x 100W 230V 2300lm	1x 100W 230V 2300lm
Lamp Flux (lm)	2333	2333	2333
Maintenance Factor	0.81	0.81	0.81
No. in Project	26	12	14