

**DATE:** 28 February 2022  
**DESIGNER:** Jacek Maslowski  
**PROJECT No:** OP167833LD16974  
**PROJECT NAME:** Western Road Rec Ground, Hailsham

**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	Footpath	-3.58	26.89	187.53	186.59	0.75	0.75

### Luminaires

#### Luminaire B Data



Supplier	Schröder
Type	PHAROS 5119 Asymmetrical 8 LEDs 350 mA WW Cylindrical, PC, Sm
Lamp(s)	8 LEDs WW 3000K
Lamp Flux (klm)	0.51
File Name	PHAROS 5119 8LEDs 350mA WW 496951 Cylindrical PC Smooth ASY 180deg Shield...
Maintenance Factor	0.81
Imax70,80,90(cd/klm)	1437.6, 146.6, 13.0
No. in Project	32

#### Luminaire C Data



Supplier	Schröder
Type	AXIA 3.1 5296 Integrated lenses 8 OSLO SQUARE GIANT@200mA W
Lamp(s)	8 OSLO SQUARE GIANT@200mA WW 7 30 230V 01-42-072
LampFlux(klm)/Colour	0.72 3000K/70
File Name	AXIA 3.1 5296 8 OSLO SQUARE GIANT 2 00mA WW 730 6.4W 436952 Integrated le...
Maintenance Factor	0.81
Imax70,80,90(cd/klm)	1243.8, 38.3, 0.0
No. in Project	19

### Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
1	C	143.80	167.82	4.00	253.00	0.00	0.00	0.50	55%			
2	C	124.58	174.05	4.00	253.00	0.00	0.00	0.50	55%			
3	C	84.68	180.99	4.00	269.00	0.00	0.00	0.50	55%			
4	C	68.59	170.15	4.00	336.00	0.00	0.00	0.50	55%			
5	C	61.35	151.39	4.00	333.00	0.00	0.00	0.50	55%			
6	C	51.91	133.86	4.00	339.00	0.00	0.00	0.50	55%			
7	C	42.16	116.22	4.00	330.00	0.00	0.00	0.50	55%			
8	C	23.96	80.72	4.00	338.00	0.00	0.00	0.50	55%			
9	C	16.40	61.91	4.00	342.00	0.00	0.00	0.50	55%			
10	B	18.86	32.95	1.00	75.00	0.00	0.00	0.00	55%			
11	B	46.79	29.78	1.00	168.00	0.00	0.00	0.00	55%			
12	B	66.96	40.10	1.00	68.00	0.00	0.00	0.00	55%			
13	C	109.62	23.16	4.00	68.00	0.00	0.00	0.50	55%			
14	B	135.46	13.89	1.00	97.00	0.00	0.00	0.00	55%			
15	B	157.95	41.07	1.00	154.00	0.00	0.00	0.00	55%			
16	B	168.00	61.00	1.00	154.00	0.00	0.00	0.00	55%			
17	B	197.76	120.13	1.00	154.00	0.00	0.00	0.00	55%			
18	B	194.17	112.96	1.00	154.00	0.00	0.00	0.00	55%			
19	C	199.35	145.02	4.00	233.00	0.00	0.00	0.50	55%			
20	C	182.25	155.58	4.00	250.00	5.00	0.00	0.50	55%			

**Layout Continued**

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
21	B	26.08	31.20	1.00	75.00	0.00	0.00	0.00	55%			
22	B	40.70	27.51	1.00	75.00	0.00	0.00	0.00	55%			
23	B	11.56	35.21	1.00	75.00	0.00	0.00	0.00	55%			
24	B	33.37	29.30	1.00	75.00	0.00	0.00	0.00	55%			
25	B	50.72	44.12	1.00	168.00	0.00	0.00	0.00	55%			
26	B	60.55	43.02	1.00	68.00	0.00	0.00	0.00	55%			
27	B	74.08	37.48	1.00	68.00	0.00	0.00	0.00	55%			
28	B	120.25	18.81	1.00	68.00	0.00	0.00	0.00	55%			
29	B	128.06	15.60	1.00	68.00	0.00	0.00	0.00	55%			
30	B	142.89	15.65	1.00	122.00	0.00	0.00	0.00	55%			
31	B	148.11	21.44	1.00	152.00	0.00	0.00	0.00	55%			
32	B	161.61	47.90	1.00	152.00	0.00	0.00	0.00	55%			
33	B	174.72	74.55	1.00	152.00	0.00	0.00	0.00	55%			
34	B	190.68	106.01	1.00	152.00	0.00	0.00	0.00	55%			
35	B	201.53	127.16	1.00	154.00	0.00	0.00	0.00	55%			
36	B	52.98	46.05	1.00	68.00	0.00	0.00	0.00	55%			
37	B	48.68	36.89	1.00	168.00	0.00	0.00	0.00	55%			
38	B	154.49	34.26	1.00	152.00	0.00	0.00	0.00	55%			
39	B	164.90	54.73	1.00	152.00	0.00	0.00	0.00	55%			
40	B	171.44	67.72	1.00	152.00	0.00	0.00	0.00	55%			
41	B	204.74	134.14	1.00	154.00	0.00	0.00	0.00	55%			
42	C	90.90	30.85	4.00	68.00	0.00	0.00	0.50	55%			
43	B	80.85	34.76	1.00	68.00	0.00	0.00	0.00	55%			
44	B	151.45	28.15	1.00	152.00	0.00	0.00	0.00	55%			
45	C	187.54	100.31	4.00	157.00	0.00	0.00	0.50	55%			
46	C	162.97	161.35	4.00	253.00	0.00	0.00	0.50	55%			
47	B	178.44	81.36	1.00	152.00	0.00	0.00	0.00	55%			
48	C	105.62	180.31	4.00	253.00	0.00	0.00	0.50	55%			
49	C	31.93	99.07	4.00	330.00	0.00	0.00	0.50	55%			
50	C	9.57	43.17	4.00	342.00	0.00	0.00	0.50	55%			
51	C	180.87	86.94	4.00	157.00	0.00	0.00	0.50	55%			

# Horizontal Illuminance (lux)

## Footpath



### Results

Eav	5.38
Emin	1.16
Emax	29.04
Emin/Emax	0.04
Emin/Eav	0.22