

DATE: 10 June 2023
DESIGNER: MMA Lighting Consultancy Ltd
PROJECT No: MMA17811
PROJECT NAME: Roman Fields, Campdown



Roman Fields, Campdown - Area Calculation - R0

6m standard steel columns with Philips Luma Gen2 Micro Lanterns

Spine Road Lighting Class P4 selected in accordance with BS5489
-1:2020

Results Required
Eav = 5.00 to 7.50 Lux
Emin = 1.00 Lux

Base drawing number used in this calculation "CB_62_265_001
Planning Layout REV A"

Outdoor Lighting Report

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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	468807.06	107080.86	202.22	111.04	1.50	1.50
2	Grid 2	469004.33	107052.26	142.11	76.30	1.50	1.50
3	Grid 3	469103.95	106941.26	66.00	117.15	1.50	1.50
4	Grid 4	469102.28	106787.85	90.13	157.00	1.50	1.50
5	Grid 5	469152.70	106736.20	127.60	57.00	1.50	1.50
6	Grid 6	469010.00	106754.09	127.37	84.19	1.50	1.50

Luminaires

Luminaire A Data



Supplier	Philips
Type	BGP702 DW50 BL1
Lamp(s)	LED-HB 5.2S 730
Lamp Flux (klm)	4.60
File Name	Luma Gen2 Micro_BGP702_DW50 BL1_4600_20LED_5.2S_CLO_L90_730.ies
Maintenance Factor	0.85
Lum. Int. Class	G3
No. in Project	30

Luminaire B Data



Supplier	Philips
Type	BGP702 DM10 BL1
Lamp(s)	LED-HB 5.2S 730
Lamp Flux (klm)	2.20
File Name	Luma Gen2 Micro_BGP702_DM10 BL1_2200_10LED_5.2S_CLO_L90_730.ies
Maintenance Factor	0.85
Lum. Int. Class	G3
No. in Project	1

Layout

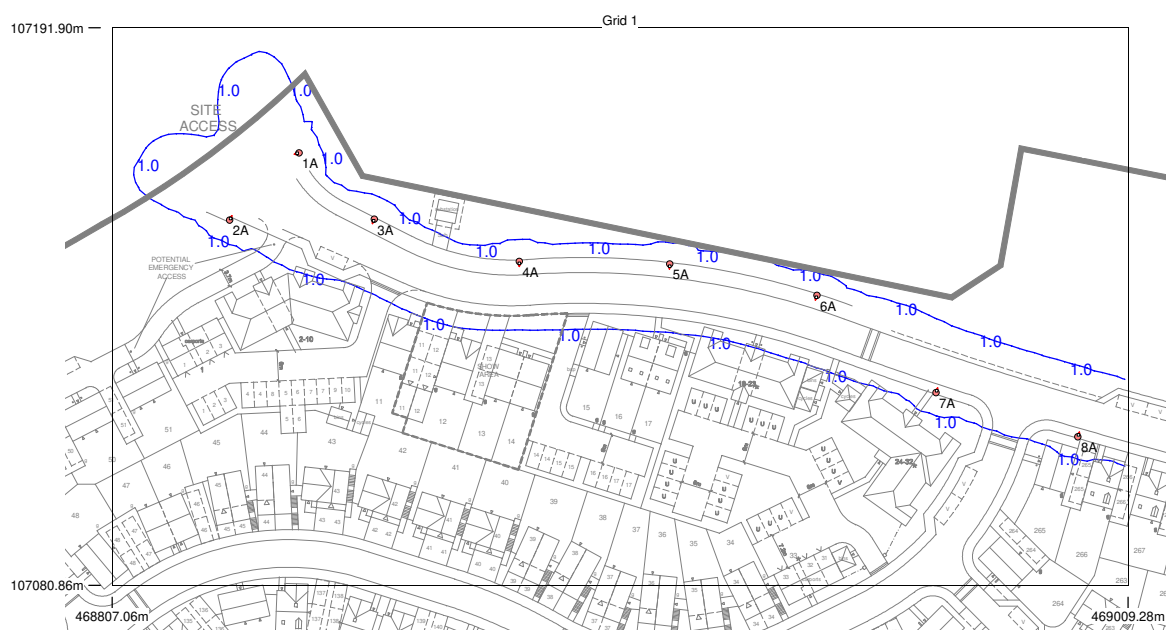
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	468844.25	107167.03	6.00	198.00	0.00	0.00	0.40			
2	A	468830.46	107153.60	6.00	66.00	0.00	0.00	0.40			
3	A	468859.24	107153.84	6.00	245.00	0.00	0.00	0.40			
4	A	468888.08	107145.40	6.00	270.00	0.00	0.00	0.40			
5	A	468918.04	107144.87	6.00	265.00	0.00	0.00	0.40			
6	A	468947.28	107138.66	6.00	253.00	0.00	0.00	0.40			
7	A	468971.00	107119.32	6.00	70.00	0.00	0.00	0.40			
8	A	468999.25	107110.52	6.00	74.00	0.00	0.00	0.40			
9	A	469034.14	107101.33	6.00	74.00	0.00	0.00	0.40			
10	A	469057.75	107096.11	6.00	77.00	0.00	0.00	0.40			
11	A	469084.66	107086.74	6.00	62.00	0.00	0.00	0.40			
12	A	469107.09	107069.09	6.00	42.00	0.00	0.00	0.40			
13	A	469131.07	107048.37	6.00	202.00	0.00	0.00	0.40			
14	A	469139.35	107020.08	6.00	189.00	0.00	0.00	0.40			
15	A	469143.31	106990.33	6.00	189.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
16	A	469136.64	106961.63	6.00	9.00	0.00	0.00	0.40			
17	A	469140.70	106931.79	6.00	9.00	0.00	0.00	0.40			
18	A	469144.07	106906.25	6.00	7.00	0.00	0.00	0.40			
19	A	469143.50	106882.86	6.00	356.00	0.00	0.00	0.40			
20	A	469151.53	106856.08	6.00	174.00	0.00	0.00	0.40			
21	A	469155.98	106824.41	6.00	212.00	0.00	0.00	0.40			
22	A	469172.33	106797.25	6.00	193.00	0.00	0.00	0.40			
23	A	469128.19	106812.96	6.00	331.00	0.00	0.00	0.40			
24	A	469113.87	106789.92	6.00	324.00	0.00	0.00	0.40			
25	A	469190.59	106773.86	6.00	238.00	0.00	0.00	0.40			
26	A	469216.69	106761.07	6.00	90.00	0.00	0.00	0.40			
27	A	469255.65	106769.28	6.00	270.00	0.00	0.00	0.40			
28	B	469246.71	106756.49	6.00	0.00	0.00	0.00	0.40			
29	A	469088.35	106775.60	6.00	56.00	0.00	0.00	0.40			
30	A	469064.63	106792.89	6.00	56.00	0.00	0.00	0.40			
31	A	469036.67	106813.26	6.00	56.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1

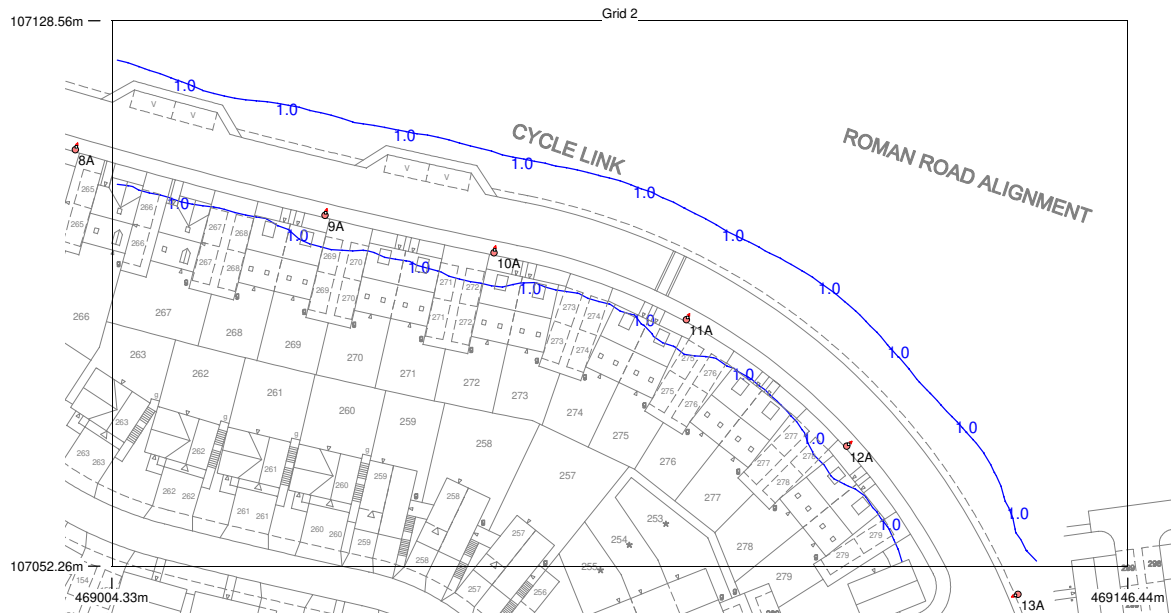


Results

Eav	5.94
Emin	1.62
Emax	11.65
Emin/Emax	0.14
Emin/Eav	0.27

Horizontal Illuminance (lux)

Grid 2

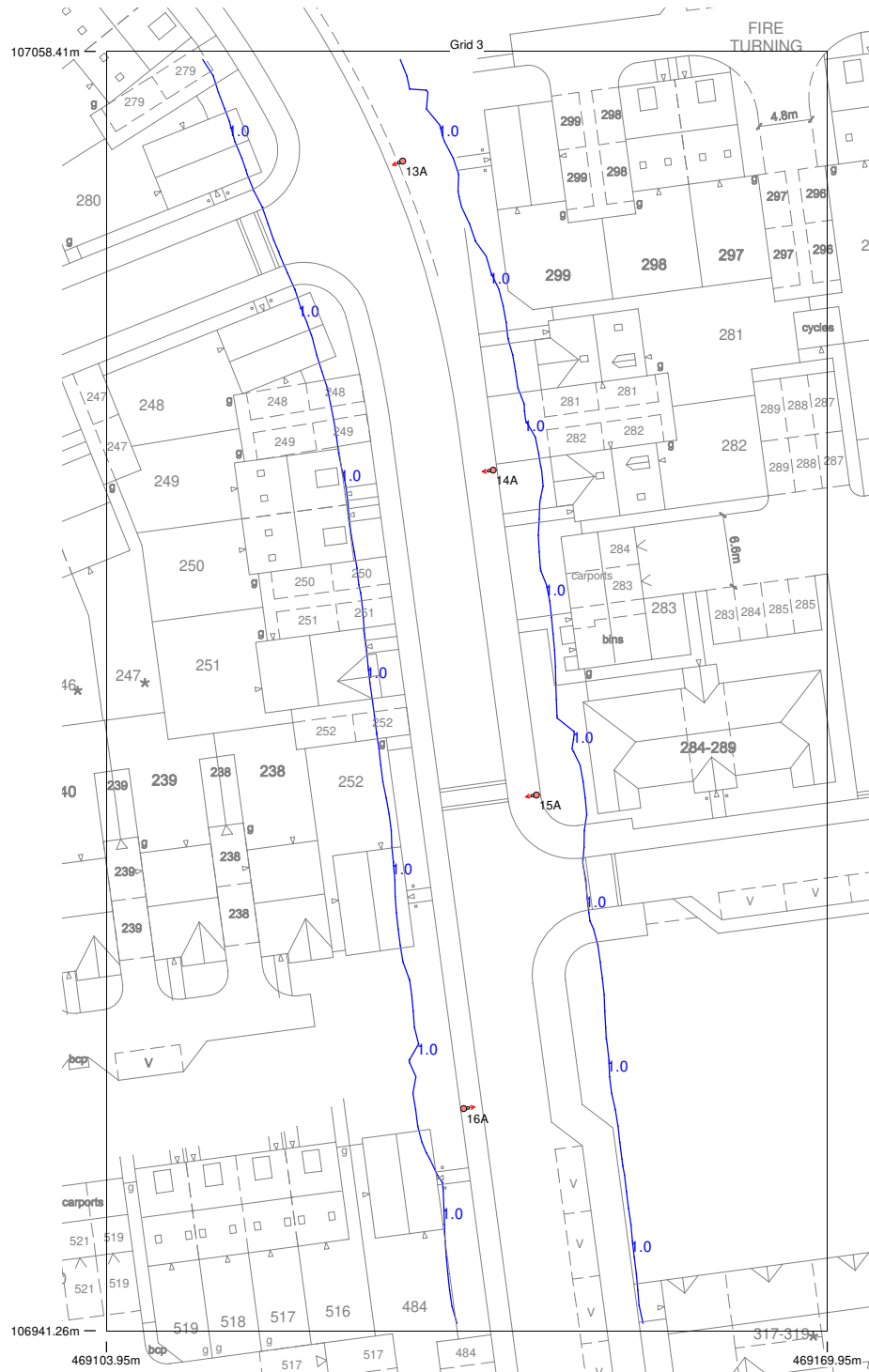


Results

Eav	5.73
Emin	1.68
Emax	9.58
Emin/Emax	0.18
Emin/Eav	0.29

Horizontal Illuminance (lux)

Grid 3

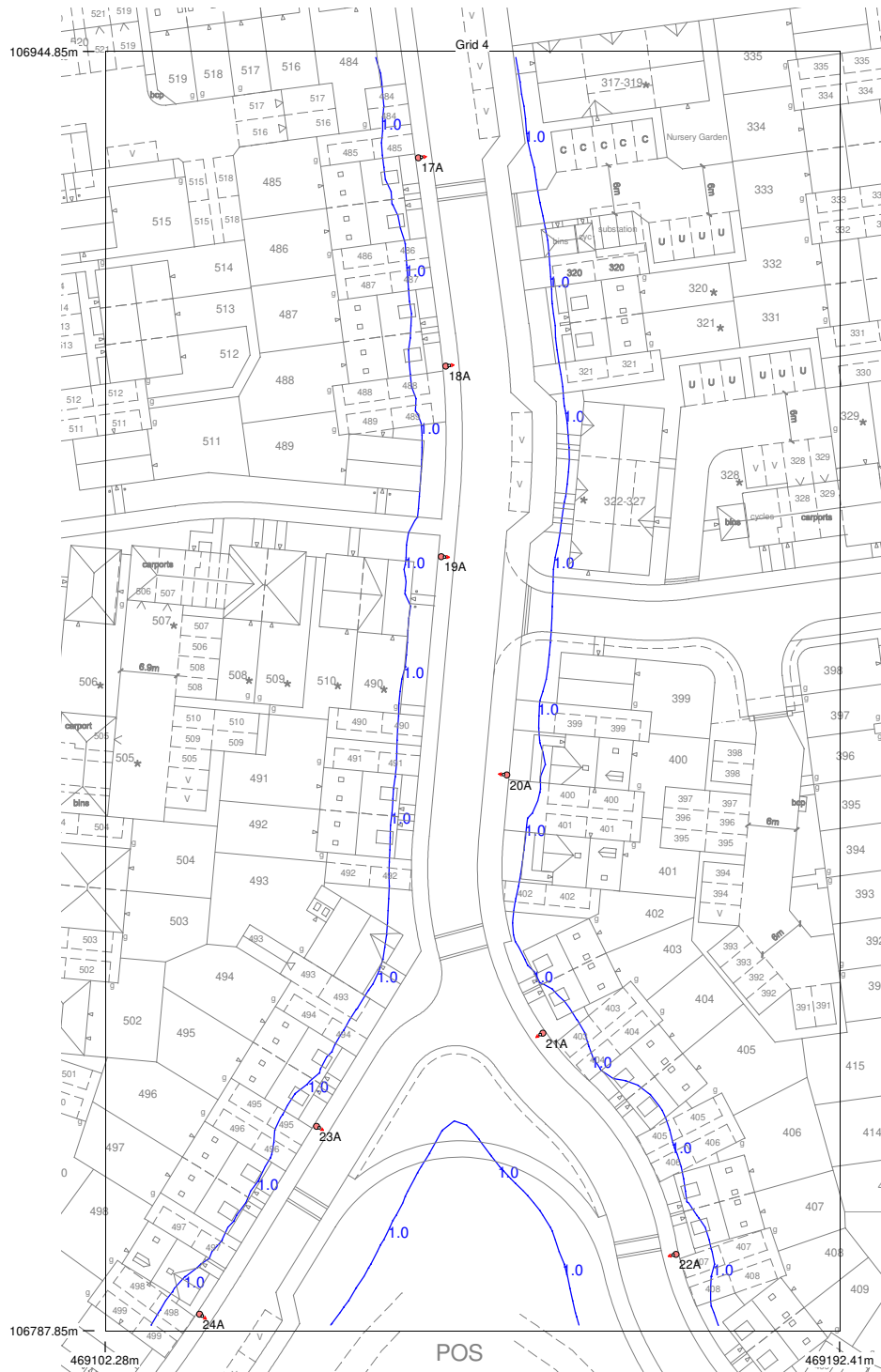


Results

Eav	5.48
Emin	1.25
Emax	8.36
Emin/Emax	0.15
Emin/Eav	0.23

Horizontal Illuminance (lux)

Grid 4

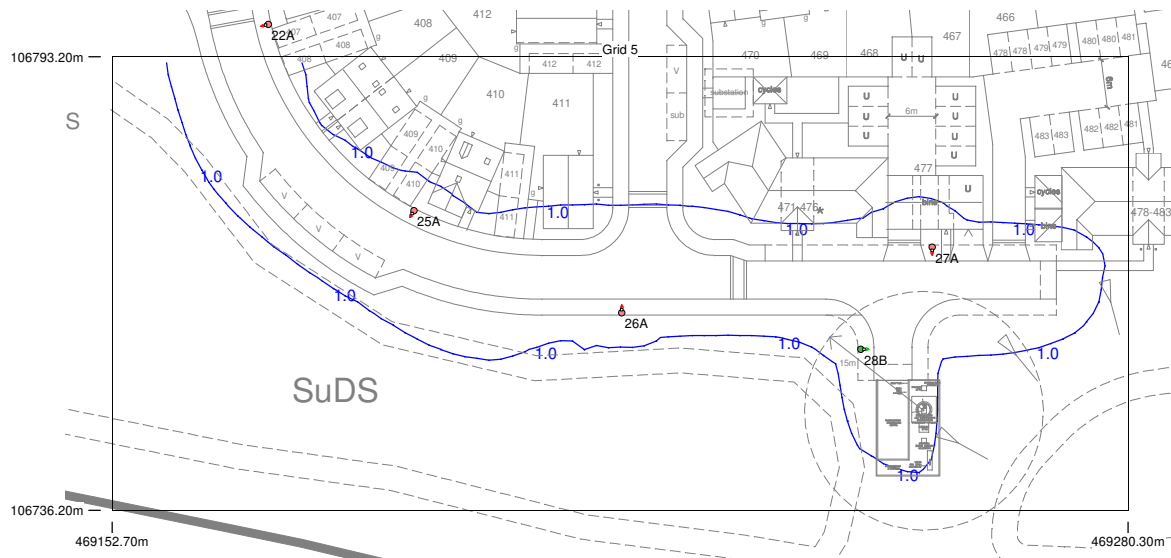


Results

Eav	5.69
Emin	1.28
Emax	9.51
Emin/Emax	0.13
Emin/Eav	0.22

Horizontal Illuminance (lux)

Grid 5

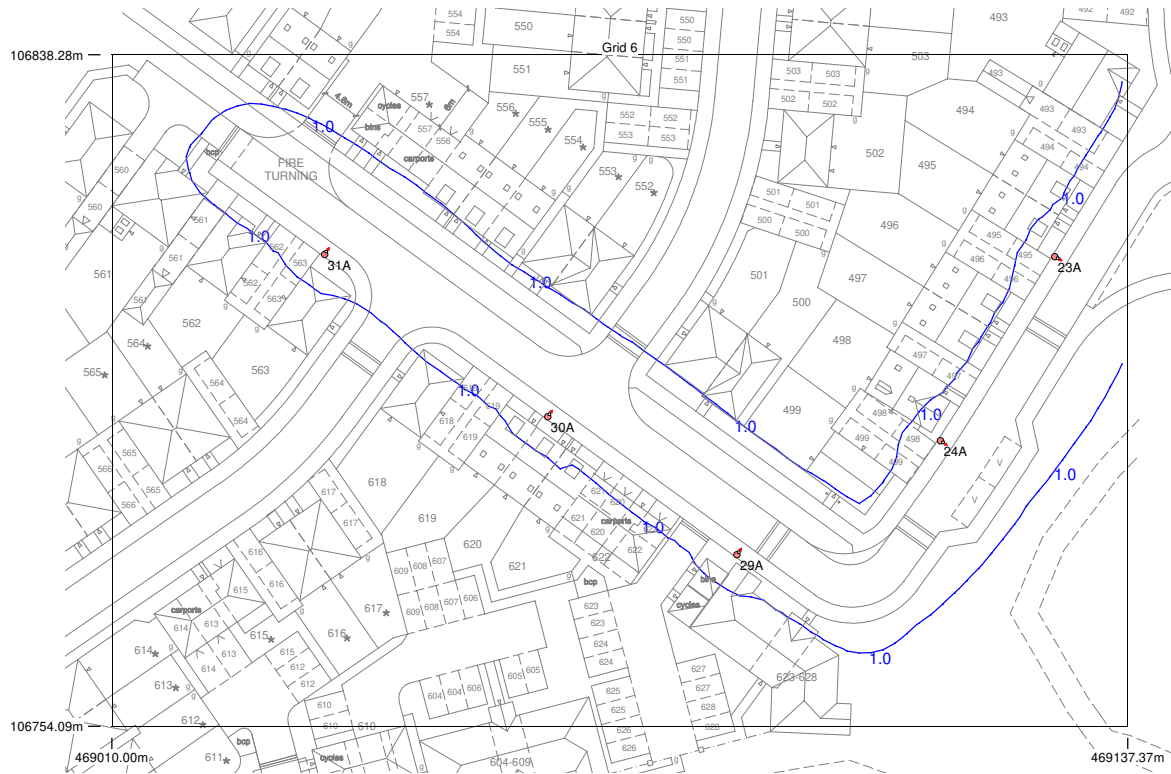


Results

Eav	5.30
Emin	2.01
Emax	11.91
Emin/Emax	0.17
Emin/Eav	0.38

Horizontal Illuminance (lux)

Grid 6



Results

Eav	5.12
Emin	1.81
E _{max}	8.50
E _{min} /E _{max}	0.21
E _{min} /E _{av}	0.35