

DATE: 26 February 2024
DESIGNER: Loveday Lighting Limited
PROJECT No: LL1646-001
PROJECT NAME: Arbourfield Garrison, Wokingham



6m Wokingham Borough Council Spec columns with post top
mounted Philips Luma Gen2 LED Luminaires

Lighting Class: P4 from BS5489-1:2020
Eav: 5.00 - 7.50 Lux
Emin: 1.00 Lux

S38 Lighting

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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	477268.00	165505.00	300.00	250.00	1.50	1.50
2	Grid 2	477234.00	165255.00	300.00	250.00	1.50	1.50
3	Grid 3	477298.00	165517.00	120.00	69.00	1.50	1.50
4	Grid 4	477418.00	165506.00	81.00	66.00	1.50	1.50

Luminaires

Luminaire A Data



Supplier	Philips
Type	BGP702 DM10
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	3.00
File Name	Luma Gen2 Micro_BGP702_DM10_3000_2 0LED_5.2S_CLO_L90_740.ies
Maintenance Factor	0.76
Lum. Int. Class	G3
No. in Project	34

Luminaire B Data



Supplier	Philips
Type	BGP702 DM10
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	2.00
File Name	Luma Gen2 Micro_BGP702_DM10_2000_1 0LED_5.2S_CLO_L90_740.ies
Maintenance Factor	0.76
Lum. Int. Class	G3
No. in Project	2

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	477418.40	165682.61	6.00	178.00	0.00	0.00	0.40			
2	A	477422.90	165654.28	6.00	204.00	0.00	0.00	0.40			
3	A	477440.47	165629.95	6.00	225.00	0.00	0.00	0.40			
4	A	477449.77	165606.29	6.00	179.00	0.00	0.00	0.40			
5	A	477433.79	165583.61	6.00	340.00	0.00	0.00	0.40			
6	A	477434.08	165556.81	6.00	158.00	0.00	0.00	0.40			
7	A	477424.54	165529.12	6.00	158.00	0.00	0.00	0.40			
8	A	477407.41	165506.18	6.00	344.00	0.00	0.00	0.40			
9	A	477398.99	165481.81	6.00	340.00	0.00	0.00	0.40			
10	A	477394.23	165450.44	6.00	149.00	0.00	0.00	0.40			
11	A	477374.23	165433.16	6.00	337.00	0.00	0.00	0.40			
12	A	477357.66	165412.63	6.00	111.00	0.00	0.00	0.40			
13	A	477319.62	165406.07	6.00	295.00	0.00	0.00	0.40			
14	A	477324.75	165381.61	6.00	204.00	0.00	0.00	0.40			
15	A	477334.34	165353.46	6.00	198.00	0.00	0.00	0.40			
16	A	477357.42	165334.92	6.00	246.00	0.00	0.00	0.40			
17	A	477378.11	165340.29	6.00	316.00	0.00	0.00	0.40			



Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
18	A	477395.52	165360.49	6.00	314.00	0.00	0.00	0.40			
19	A	477412.94	165380.66	6.00	323.00	0.00	0.00	0.40			
20	A	477429.75	165408.66	6.00	327.00	0.00	0.00	0.40			
21	A	477442.65	165431.09	6.00	329.00	0.00	0.00	0.40			
22	A	477454.44	165456.83	6.00	331.00	0.00	0.00	0.40			
23	A	477464.89	165487.56	6.00	337.00	0.00	0.00	0.40			
24	A	477481.72	165513.32	6.00	164.00	0.00	0.00	0.40			
25	A	477484.03	165543.54	6.00	335.00	0.00	0.00	0.40			
26	A	477493.54	165571.28	6.00	335.00	0.00	0.00	0.40			
27	A	477511.51	165601.03	6.00	159.00	0.00	0.00	0.40			
28	B	477514.36	165623.68	5.00	52.00	0.00	0.00	0.40			
29	B	477495.54	165644.91	5.00	39.00	0.00	0.00	0.40			
30	A	477390.39	165417.25	6.00	62.00	0.00	0.00	0.40			
31	A	477414.74	165403.36	6.00	67.00	0.00	0.00	0.40			
32	A	477399.26	165528.26	6.00	74.00	0.00	0.00	0.40			
33	A	477372.21	165537.34	6.00	66.00	0.00	0.00	0.40			
34	A	477356.26	165553.13	6.00	323.00	0.00	0.00	0.40			
35	A	477446.11	165541.12	6.00	251.00	0.00	0.00	0.40			
36	A	477471.30	165532.51	6.00	252.00	0.00	0.00	0.40			



Horizontal Illuminance (lux)

Grid 1



Results

Eav	5.49
Emin	1.25
Emax	15.09
Emin/Emax	0.08
Emin/Eav	0.23



Horizontal Illuminance (lux)

Grid 2



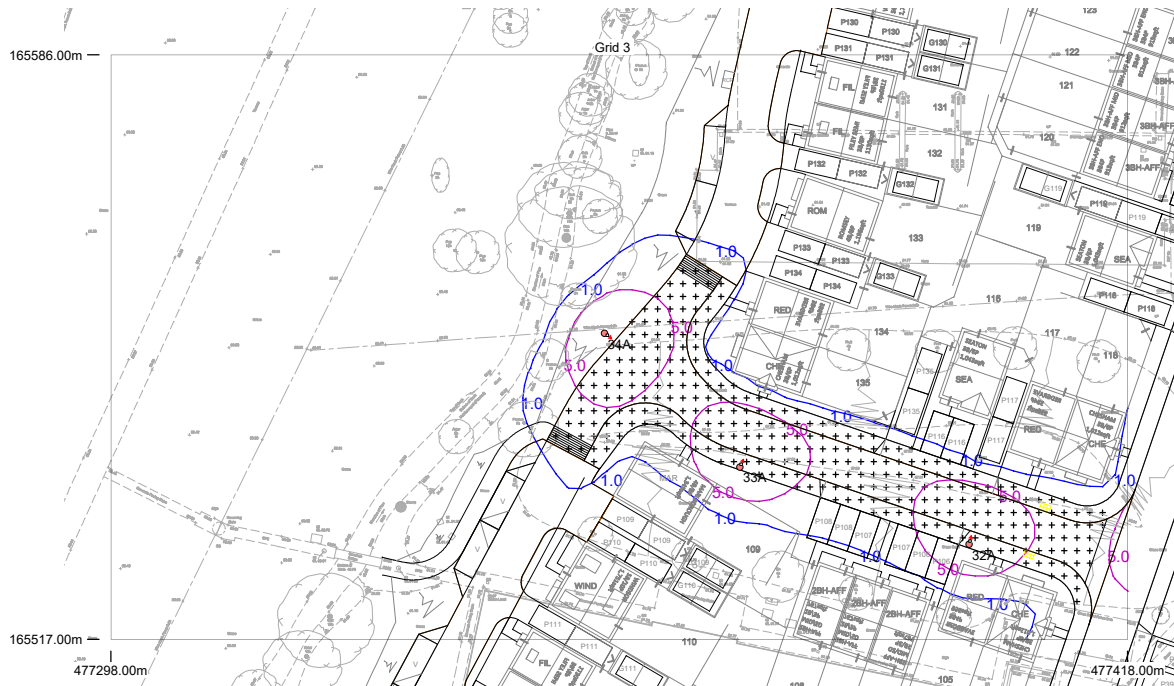
Results

Eav	5.40
Emin	1.13
Emax	15.55
Emin/Emax	0.07
Emin/Eav	0.21



Horizontal Illuminance (lux)

Grid 3



Results

Eav	5.26
Emin	1.15
Emax	15.14
Emin/Emax	0.08
Emin/Eav	0.22



Horizontal Illuminance (lux)

Grid 4



Results

Eav	5.78
Emin	2.04
Emax	14.83
Emin/Emax	0.14
Emin/Eav	0.35