

DATE: 26 September 2025
DESIGNER: Julian Joseph
PROJECT No: 100711-JLD-ARB-DC-0002B
PROJECT NAME: Parcel N, Arborfield

joseph lighting

The lighting design has adopted Lighting Class P5, justified in accordance with BS 5489-1:2020, Table A.5, for subsidiary roads with normal traffic flow in Environmental Zone E2 (low district brightness areas, as defined in ILP GN01). Table A.5 identifies P5 as appropriate where the road serves residential or estate access functions, pedestrian and vehicular movements are limited, and the risk of accidents or crime is considered low. The E2 classification further reinforces the need to control obtrusive light and maintain low luminance levels in order to protect the surrounding environment while still ensuring adequate visibility and safety for users.

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	476964.44	165291.37	131.72	163.93	1.50	1.49
2	Grid 2	476932.72	165302.65	108.78	108.78	1.49	1.49
3	Grid 3	477066.73	165305.36	142.53	121.16	1.48	1.50

Luminaires

Luminaire A Data

Supplier	2025.01.09 - Philips Lumistreet
Type	BGP291 DW50 BL1
Lamp(s)	LED-HB 5.2S 730
Lamp Flux (klm)	1.80
File Name	LumiStreet Gen2 Micro_BGP291_DW50 BL 1_1800_10LED_5.2S_CLO_L90_730.ies
Maintenance Factor	0.83
Lum. Int. Class	G3
No. in Project	13

Luminaire B Data

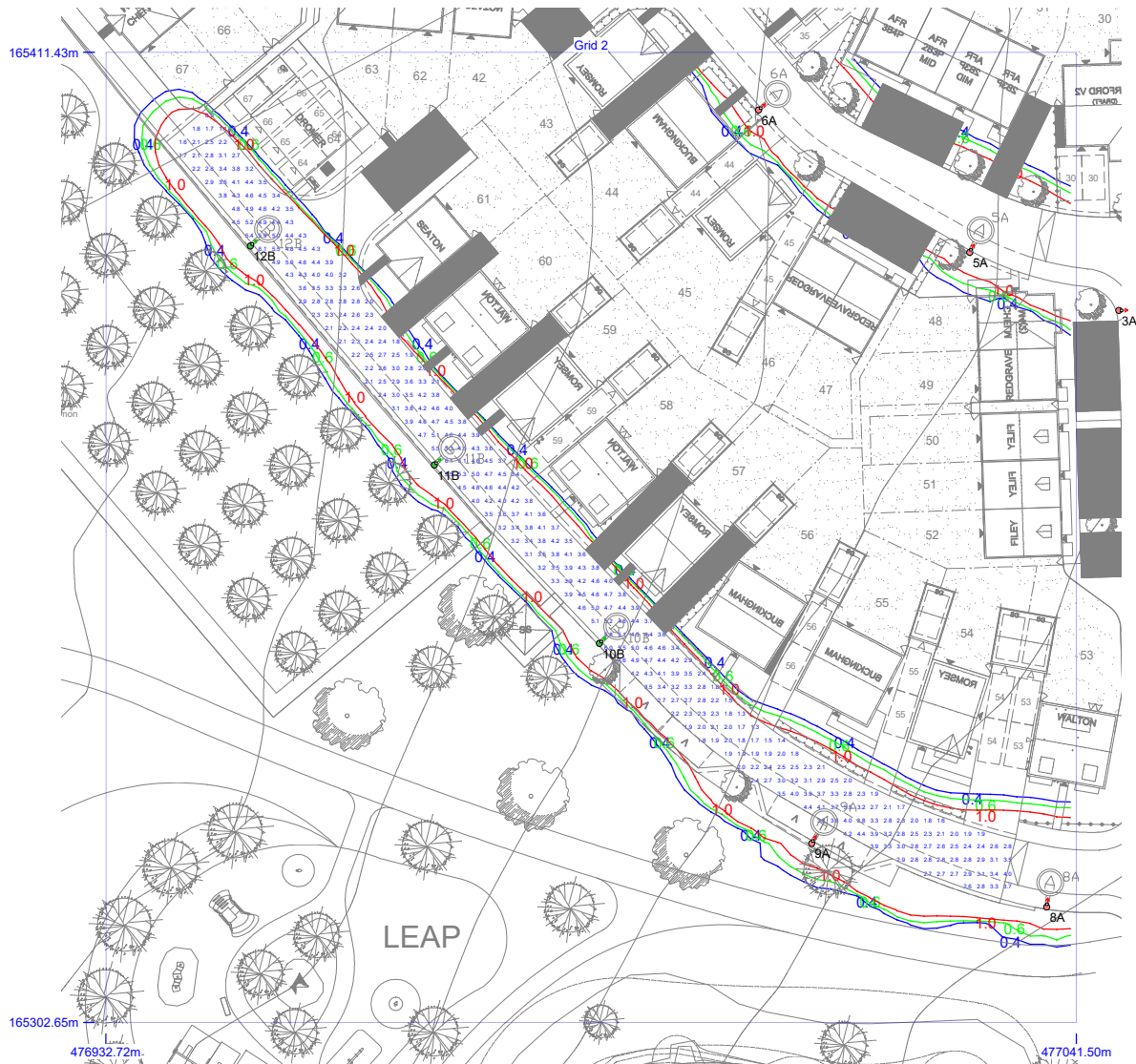
Supplier	2025.01.09 - Philips Lumistreet
Type	BGP291 DM50 BL1
Lamp(s)	LED-HB 5.2S 730
Lamp Flux (klm)	1.80
File Name	LumiStreet Gen2 Micro_BGP291_DM50 BL 1_1800_10LED_5.2S_CLO_L90_730.ies
Maintenance Factor	0.83
Lum. Int. Class	G3
No. in Project	5

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
8	A	477038.14	165315.64	5.00	82.00	0.00	0.00	0.30			
13	A	477071.78	165317.76	5.00	113.00	0.00	0.00	0.30			
1	A	477048.08	165329.39	5.00	1.00	0.00	0.00	0.30			
2	A	477056.08	165357.80	5.00	181.00	0.00	0.00	0.30			
3	A	477046.22	165382.50	5.00	1.00	0.00	0.00	0.30			
4	A	477061.15	165385.74	5.00	91.00	0.00	0.00	0.30			
5	A	477029.51	165389.01	5.00	62.00	0.00	0.00	0.30			
14	B	477103.73	165335.60	5.00	124.00	0.00	0.00	0.30			
6	A	477005.87	165404.96	5.00	42.00	0.00	0.00	0.30			
7	A	476993.38	165428.14	5.00	309.00	0.00	0.00	0.30			
15	B	477129.34	165351.44	5.00	124.00	0.00	0.00	0.30			
16	A	477156.67	165366.62	5.00	124.00	0.00	0.00	0.30			
17	A	477179.23	165381.07	5.00	124.00	0.00	0.00	0.30			
9	A	477011.81	165322.75	5.00	60.00	0.00	0.00	0.30			
10	B	476988.02	165345.18	5.00	43.00	0.00	0.00	0.30			
11	B	476969.53	165365.19	5.00	43.00	0.00	0.00	0.30			
12	B	476948.90	165389.73	5.00	43.00	0.00	0.00	0.30			
18	A	477197.22	165392.79	5.00	124.00	0.00	0.00	0.30			

Horizontal Illuminance (lux)

Grid 2

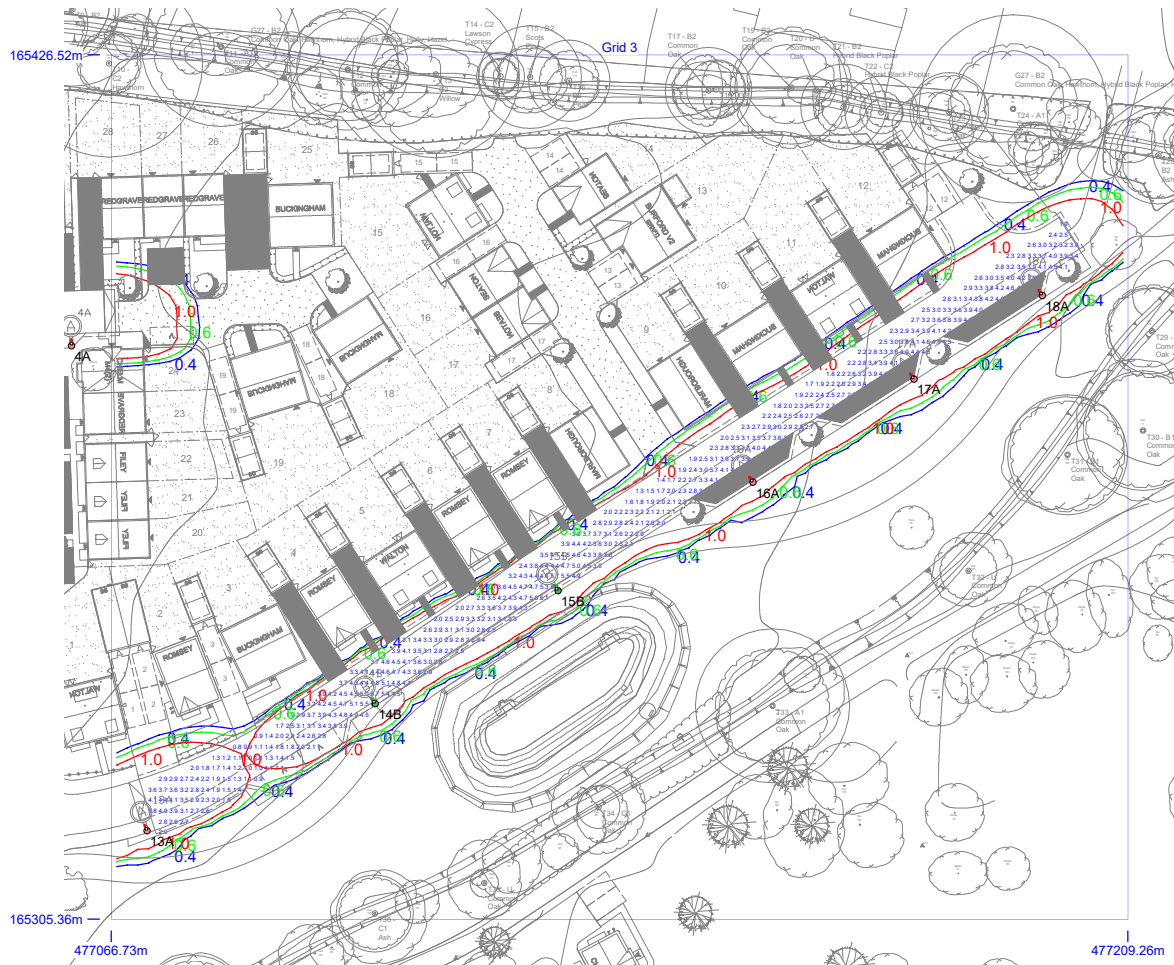


Results

Eav	3.37
Emin	0.88
Emax	6.10
Emin/Emax	0.14
Emin/Eav	0.26

Horizontal Illuminance (lux)

Grid 3



Results

Eav	3.15
Emin	0.83
Emax	6.10
Emin/Emax	0.14
Emin/Eav	0.26