

DATE: 8 May 2026
DESIGNER: DFL
PROJECT No: 4242
PROJECT NAME: Kingfisher Grove



Location: Kingfisher Grove
Environmental Zone: E3

Design Class: P5
Eave: 3.00 - 4.50 Lux
Emin: 0.60 Lux

Lighting classes as per BS5489-1:2020, the lighting levels for which
are taken from EN 13201-2:2015

4242-DFL-HLG-XX-CA-EO-13001-S3-P01

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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 - P5	470935.78	167170.14	124.71	356.65	1.48	1.50
2	Grid 2 - P5	470899.44	167267.01	64.73	51.51	1.47	1.47
3	Grid 3 - P5	470928.65	167366.69	35.70	23.31	1.49	1.46
4	Grid 4 - P5	470903.86	167388.32	25.84	28.36	1.44	1.49

Luminaires



Luminaire A Data

Supplier	Philips
Type	BGP702 DM10
Lamp(s)	LED-HB 5.2S 730
Lamp Flux (klm)	2.00
File Name	Luma Gen2 Micro_BGP702_DM10_2000_10L ED_5.2S_CLO_L90_730.ies
Maintenance Factor	0.90
Imax70,80,90(cd/klm)	523.4, 90.0, 0.0
No. in Project	25

Layout

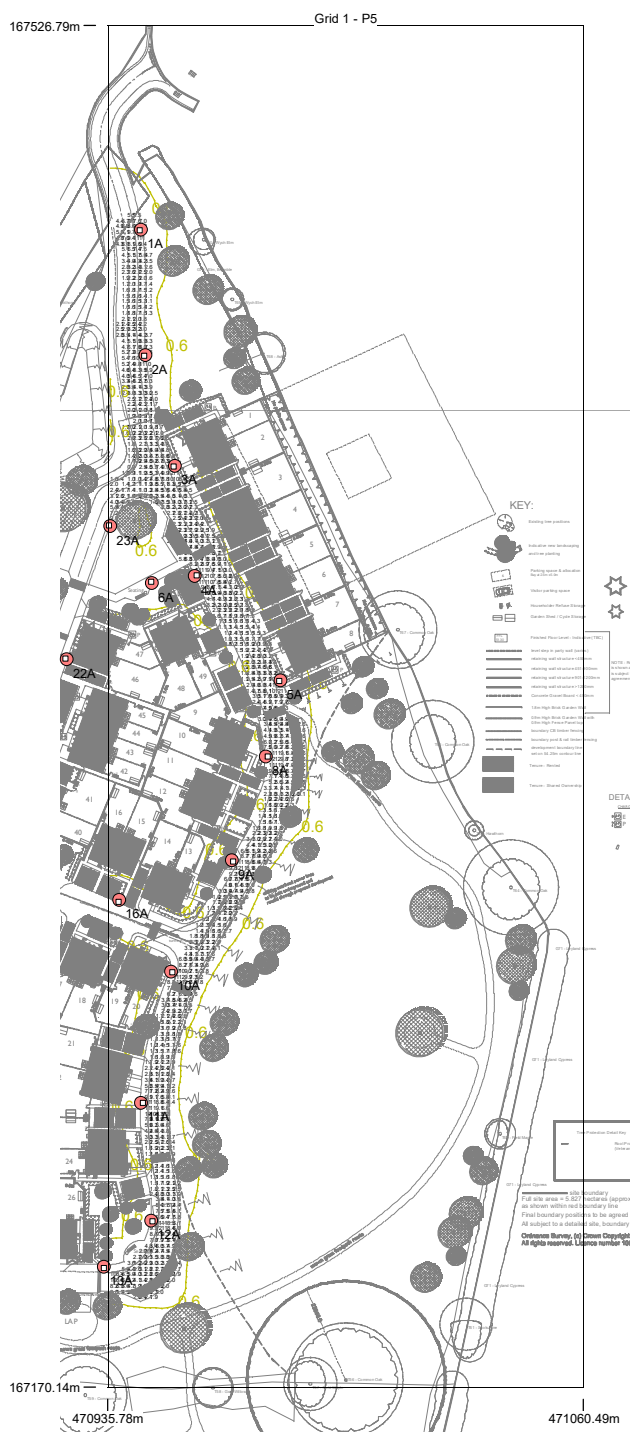
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	470944.53	167473.29	6.00	194.00	0.00	0.00	0.40			
2	A	470945.74	167440.45	6.00	191.00	0.00	0.00	0.40			
3	A	470953.34	167411.49	6.00	203.00	0.00	0.00	0.40			
4	A	470958.64	167382.64	6.00	28.00	0.00	0.00	0.40			
5	A	470981.07	167355.35	6.00	198.00	0.00	0.00	0.40			
6	A	470947.33	167380.85	5.00	116.00	0.00	0.00	0.40			
7	A	470914.96	167406.18	5.00	48.00	0.00	0.00	0.40			
8	A	470977.23	167335.34	6.00	2.00	0.00	0.00	0.40			
9	A	470968.23	167308.17	6.00	333.00	0.00	0.00	0.40			
10	A	470952.36	167279.05	6.00	336.00	0.00	0.00	0.40			
11	A	470944.52	167244.66	6.00	2.00	0.00	0.00	0.40			
12	A	470947.15	167213.81	6.00	350.00	0.00	0.00	0.40			
13	A	470934.75	167201.89	6.00	273.00	0.00	0.00	0.40			
14	A	470897.24	167202.61	6.00	268.00	0.00	0.00	0.40			
15	A	470880.85	167213.92	6.00	171.00	0.00	0.00	0.40			
16	A	470938.84	167297.77	5.00	246.00	0.00	0.00	0.40			
17	A	470910.51	167301.80	5.00	70.00	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	470879.95	167253.04	6.00	350.00	0.00	0.00	0.40			
20	A	470888.21	167281.84	6.00	339.00	0.00	0.00	0.40			
21	A	470911.70	167325.53	6.00	147.00	0.00	0.00	0.40			
22	A	470925.01	167360.95	6.00	160.00	0.00	0.00	0.40			
23	A	470936.43	167395.73	6.00	160.00	0.00	0.00	0.40			
24	A	470917.65	167377.46	5.00	338.00	0.00	0.00	0.40			
25	A	470902.98	167343.92	5.00	339.00	0.00	0.00	0.40			
26	A	470896.03	167307.28	6.00	342.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1 - P5

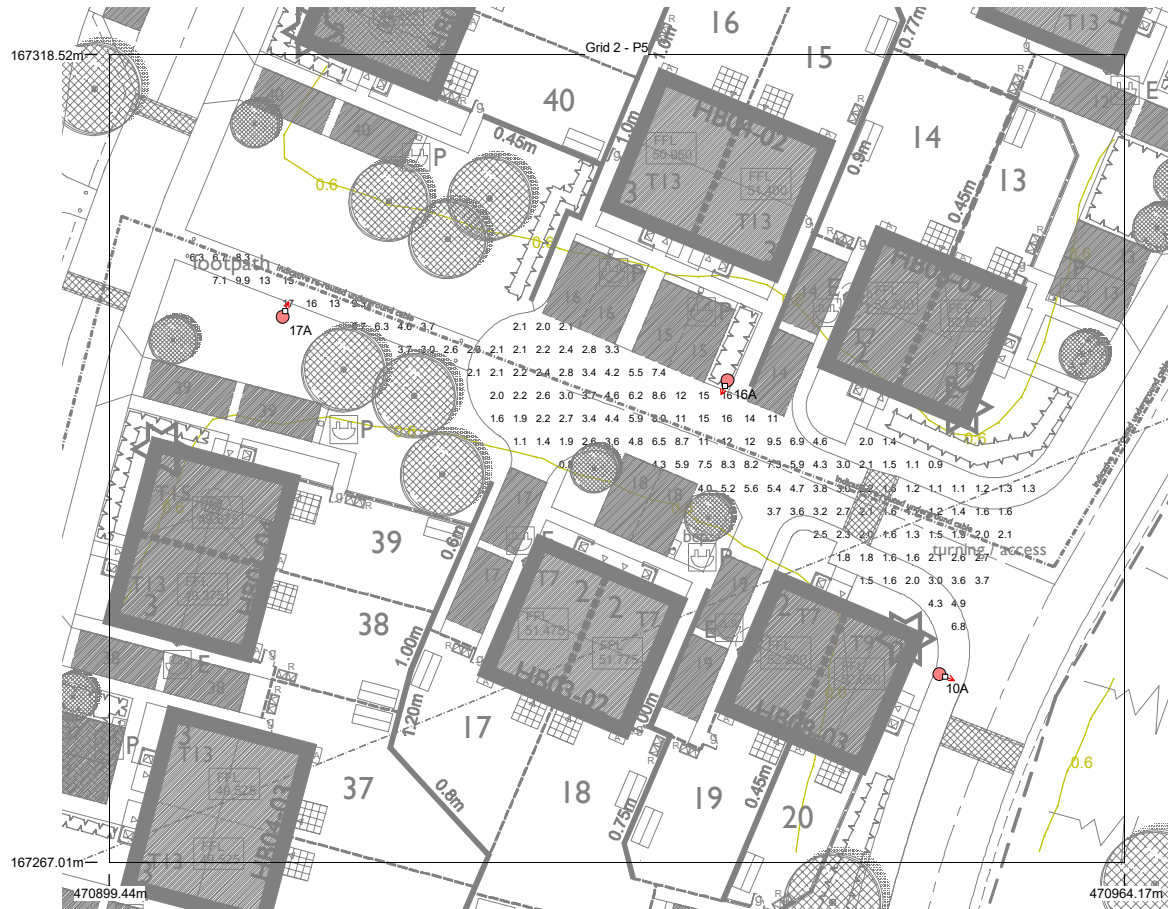


Results

Eav	4.18
Emin	0.77
E _{max}	12.20
Emin/E _{max}	0.06
Emin/Eav	0.18

Horizontal Illuminance (lux)

Grid 2 - P5

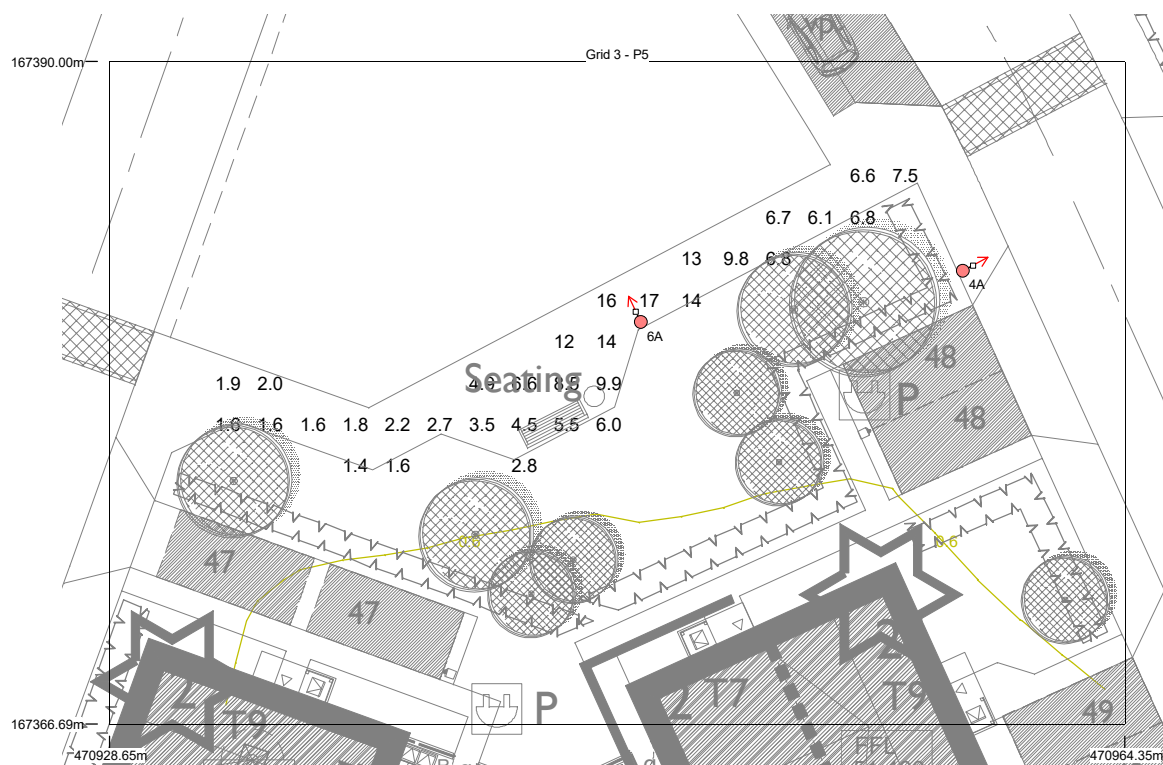


Results

Eav	4.67
Emin	0.79
Emax	16.72
Emin/Emax	0.05
Emin/Eav	0.17

Horizontal Illuminance (lux)

Grid 3 - P5

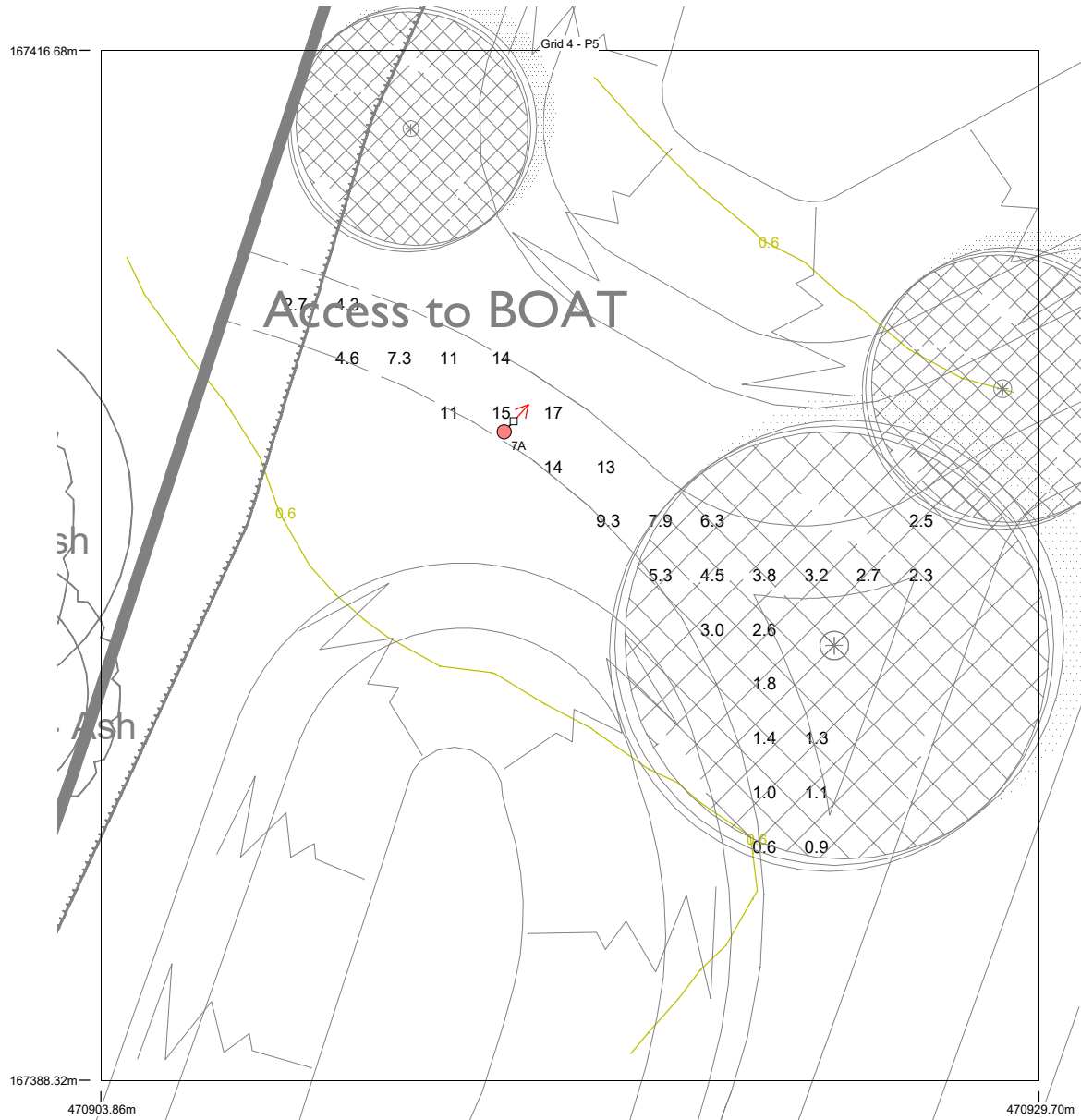


Results

Eav	6.44
Emin	1.39
Emax	16.69
Emin/Emax	0.08
Emin/Eav	0.22

Horizontal Illuminance (lux)

Grid 4 - P5



Results

Eav	5.85
Emin	0.61
E _{max}	16.77
E _{min} /E _{max}	0.04
E _{min} /E _{av}	0.10