

DATE: 17 March 2026
DESIGNER: WLC
PROJECT No: WLC1253
PROJECT NAME: Finchwood Phase 5



R5: LA REVIEW

THE PROPOSALS HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE FOLLOWING TARGET LIGHTING CLASS(ES): P5 (MINOR ROADS) & P4 (SPINE ROADS) IN ACCORDANCE WITH BS 5489:2020

LEVELS ACHIEVED:
REFER TO INDIVIDUAL GRID WITHIN REPORT.

WLC1253-LC-AC-001 R5

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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	476535.50	164276.14	93.00	128.80	1.50	1.50
2	Grid 2	476435.81	164269.99	108.00	134.98	1.50	1.50
3	Grid 3	476500.08	164352.07	63.00	75.00	1.50	1.50
4	Grid 4	476534.90	164106.00	87.00	163.00	1.50	1.50
5	Grid 5	476443.12	164079.21	136.18	167.96	1.50	1.50
6	Grid 6	476591.57	164128.42	71.66	147.37	1.49	1.54
7	Grid 7	476489.40	163988.11	188.62	102.00	1.50	1.50
8	Grid 8	476584.30	164307.69	46.46	57.00	1.50	1.50
9	Grid 9	476462.27	164063.87	197.56	24.00	1.50	1.50
10	Grid 10	476413.01	164246.45	45.00	45.00	1.50	1.50

Luminaires



Luminaire A Data

Supplier	Philips
Type	BGP702 DW50
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	4.80
File Name	Luma Gen2 Micro_BGP702_DW50_4800_20LED_5.2S_CLO_L90_740.ies
Maintenance Factor	0.76
Lum. Int. Class	G3
No. in Project	9

Luminaire B Data

Supplier	
Type	BGP702 DW50 BL1
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	3.80
File Name	Luma Gen2 Micro_BGP702_DW50 BL1_3800_20LED_5.2S_CLO_L90_740.ies
Maintenance Factor	0.76
Lum. Int. Class	G3
No. in Project	36

Luminaire C Data

Supplier	
Type	BGP702 DW50 BL1
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	2.40
File Name	Luma Gen2 Micro_BGP702_DW50 BL1_2400_10LED_5.2S_CLO_L90_740.ies
Maintenance Factor	0.76
Lum. Int. Class	G3
No. in Project	7

Luminaire D Data

Supplier	Philips
Type	BGP702 DN09
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	0.80
File Name	Luma Gen2 Micro_BGP702_DN09_800_6LED_5.2S_CLO_L90_740.ies
Maintenance Factor	0.76
Lum. Int. Class	G2
No. in Project	5

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	476552.17	164296.17	6.00	187.00	0.00	0.00	0.30			
2	A	476548.11	164335.85	6.00	181.00	0.00	0.00	0.30			
3	A	476564.27	164368.75	6.00	305.00	0.00	0.00	0.30			
4	A	476606.28	164379.28	6.00	127.00	0.00	0.00	0.30			
5	B	476521.82	164339.38	6.00	97.00	0.00	0.00	0.30			
6	B	476515.34	164280.25	6.00	96.00	0.00	0.00	0.30			
7	B	476476.93	164337.91	6.00	82.00	0.00	0.00	0.30			
8	B	476471.10	164374.60	6.00	165.00	0.00	0.00	0.30			
9	B	476453.70	164334.28	6.00	349.00	0.00	0.00	0.30			
10	B	476445.11	164294.39	6.00	358.00	0.00	0.00	0.30			
11	B	476474.31	164276.96	6.00	98.00	0.00	0.00	0.30			
12	C	476537.83	164365.43	6.00	42.00	0.00	0.00	0.30			
13	C	476525.57	164399.85	6.00	8.00	0.00	0.00	0.30			
14	B	476528.57	164418.47	6.00	277.00	0.00	0.00	0.30			
16	A	476547.40	164275.23	6.00	12.00	0.00	0.00	0.30			
17	A	476546.97	164244.27	6.00	146.00	0.00	0.00	0.30			
18	A	476551.46	164210.38	6.00	204.00	0.00	0.00	0.30			
19	A	476564.27	164175.09	6.00	202.00	0.00	0.00	0.30			
20	A	476577.81	164137.04	6.00	201.00	0.00	0.00	0.30			
21	B	476485.29	164078.15	6.00	109.00	0.00	0.00	0.30			
22	B	476541.06	164096.79	6.00	110.00	0.00	0.00	0.30			
23	B	476582.47	164110.74	6.00	110.00	0.00	0.00	0.30			
24	B	476621.23	164123.93	6.00	107.00	0.00	0.00	0.30			
25	B	476469.07	164101.82	6.00	203.00	0.00	0.00	0.30			
26	B	476451.28	164143.88	6.00	359.00	0.00	0.00	0.30			
27	B	476447.76	164188.27	6.00	11.00	0.00	0.00	0.30			
28	B	476452.23	164235.55	6.00	189.00	0.00	0.00	0.30			
29	B	476469.46	164251.95	6.00	278.00	0.00	0.00	0.30			
30	B	476465.72	164185.70	6.00	97.00	0.00	0.00	0.30			
31	B	476479.07	164197.22	6.00	26.00	0.00	0.00	0.30			
32	B	476482.53	164147.67	6.00	289.00	0.00	0.00	0.30			
33	B	476518.78	164151.74	6.00	108.00	0.00	0.00	0.30			
34	B	476545.72	164161.38	6.00	108.00	0.00	0.00	0.30			
35	B	476575.54	164264.10	6.00	277.00	0.00	0.00	0.30			
36	B	476589.17	164243.51	6.00	15.00	0.00	0.00	0.30			
37	B	476611.73	164202.20	6.00	201.00	0.00	0.00	0.30			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
38	B	476625.66	164163.80	6.00	204.00	0.00	0.00	0.30			
39	B	476473.79	164060.45	6.00	18.00	0.00	0.00	0.30			
40	B	476486.70	164022.33	6.00	18.00	0.00	0.00	0.30			
41	B	476513.41	164008.22	6.00	290.00	0.00	0.00	0.30			
42	B	476558.06	164018.06	6.00	108.00	0.00	0.00	0.30			
43	B	476586.80	164035.74	6.00	287.00	0.00	0.00	0.30			
44	B	476546.46	164037.00	6.00	15.00	0.00	0.00	0.30			
45	B	476534.26	164072.33	6.00	15.00	0.00	0.00	0.30			
46	C	476644.55	164108.27	6.00	195.00	0.00	0.00	0.30			
47	C	476652.12	164074.01	6.00	201.00	0.00	0.00	0.30			
48	C	476609.77	164069.26	6.00	286.00	0.00	0.00	0.30			
49	C	476624.62	164047.85	6.00	18.00	0.00	0.00	0.30			
50	C	476629.46	164067.38	6.00	114.00	0.00	0.00	0.30			
51	B	476593.49	164346.24	6.00	210.00	0.00	0.00	0.30			
51	B	476515.41	164088.37	6.00	114.00	0.00	0.00	0.30			
52	D	476612.18	164034.91	6.00	107.00	0.00	0.00	0.30			
53	D	476639.54	164062.96	6.00	290.00	0.00	0.00	0.30			
54	B	476500.50	164250.88	6.00	272.00	0.00	0.00	0.30			
55	D	476510.62	164259.51	6.00	289.00	0.00	0.00	0.30			
56	D	476534.03	164263.30	6.00	272.00	0.00	0.00	0.30			
58	D	476439.10	164268.34	6.00	20.00	0.00	0.00	0.30			

Horizontal Illuminance (lux)

Grid 1



Results

Eav	5.05
Emin	0.95
Emax	12.33
Emin/Emax	0.08
Emin/Eav	0.19

Horizontal Illuminance (lux)

Grid 2



Results

Eav	3.40
Emin	0.75
Emax	9.48
Emin/Emax	0.08
Emin/Eav	0.22

Horizontal Illuminance (lux)

Grid 3

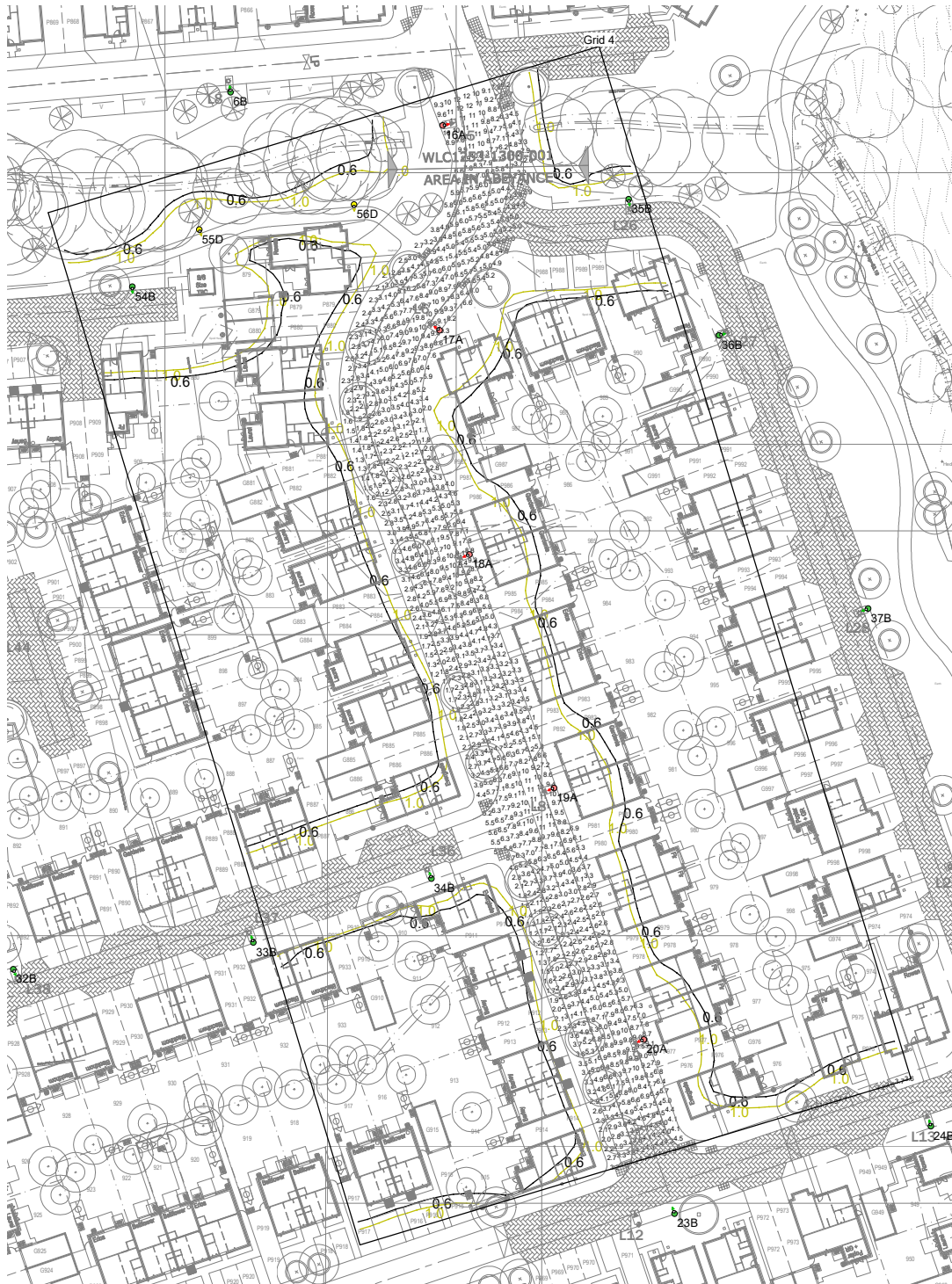


Results

Eav	3.09
Emin	0.64
Emax	7.27
Emin/Emax	0.09
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 4



Results

Eav	5.13
Emin	1.17
Emax	12.13
Emin/Emax	0.10
Emin/Eav	0.23

Horizontal Illuminance (lux)

Grid 5



Results

Eav	3.62
Emin	0.61
Emax	8.31
Emin/Emax	0.07
Emin/Eav	0.17

Horizontal Illuminance (lux)

Grid 6

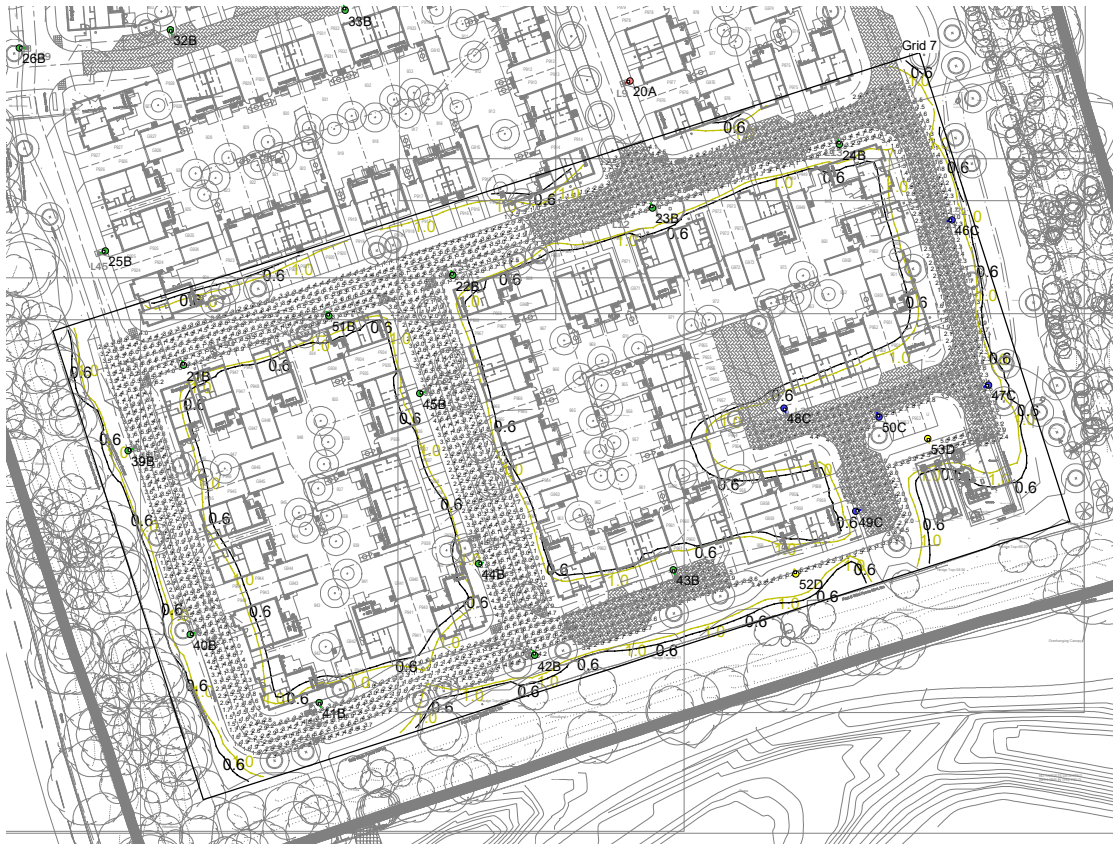


Results

Eav	3.33
Emin	0.63
Emax	6.05
Emin/Emax	0.10
Emin/Eav	0.19

Horizontal Illuminance (lux)

Grid 7

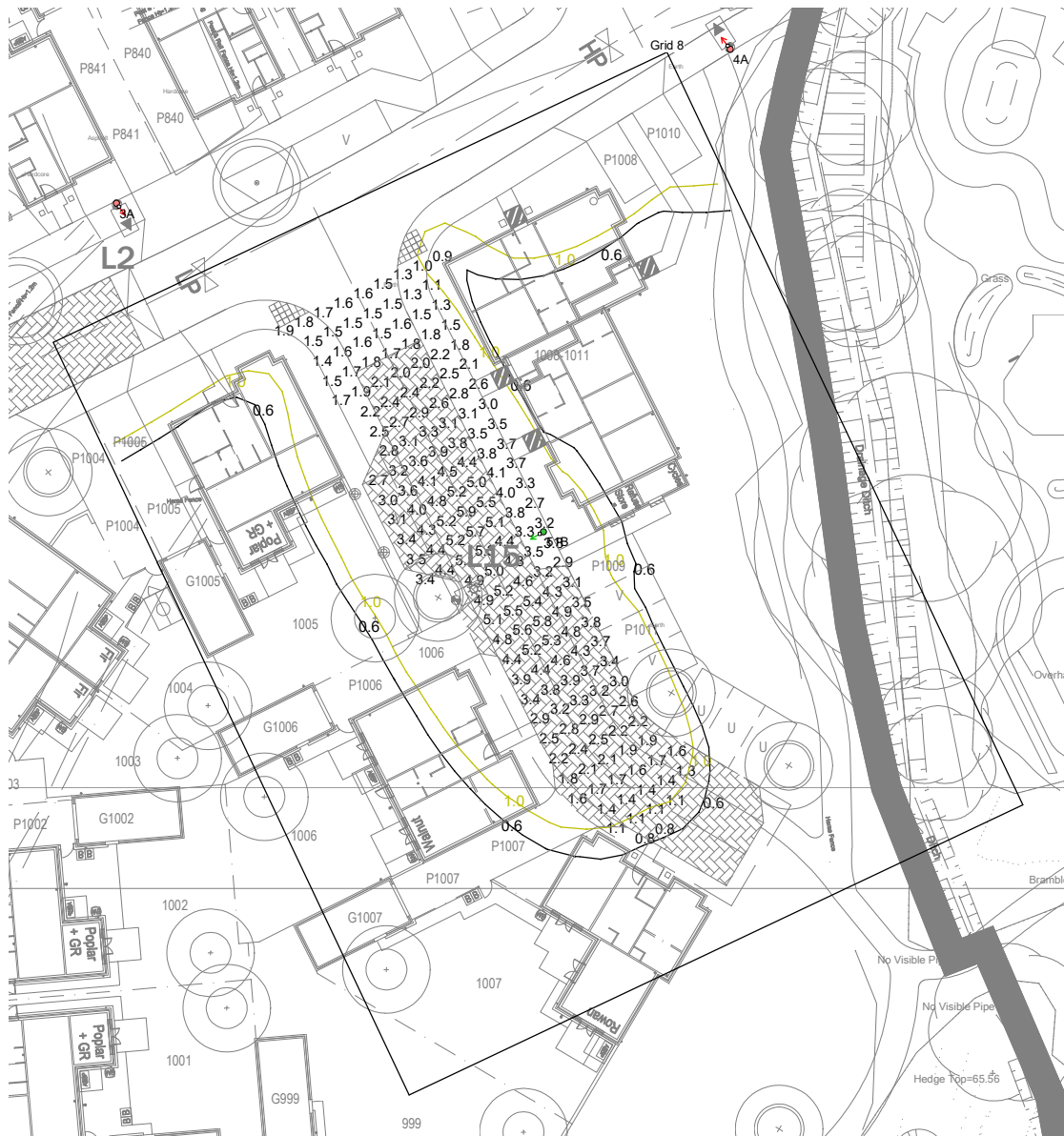


Results

Eav	3.51
Emin	0.68
Emax	7.22
Emin/Emax	0.09
Emin/Eav	0.19

Horizontal Illuminance (lux)

Grid 8



Results

Eav	3.00
Emin	0.82
Emax	5.87
Emin/Emax	0.14
Emin/Eav	0.27

Horizontal Illuminance (lux)

Grid 9

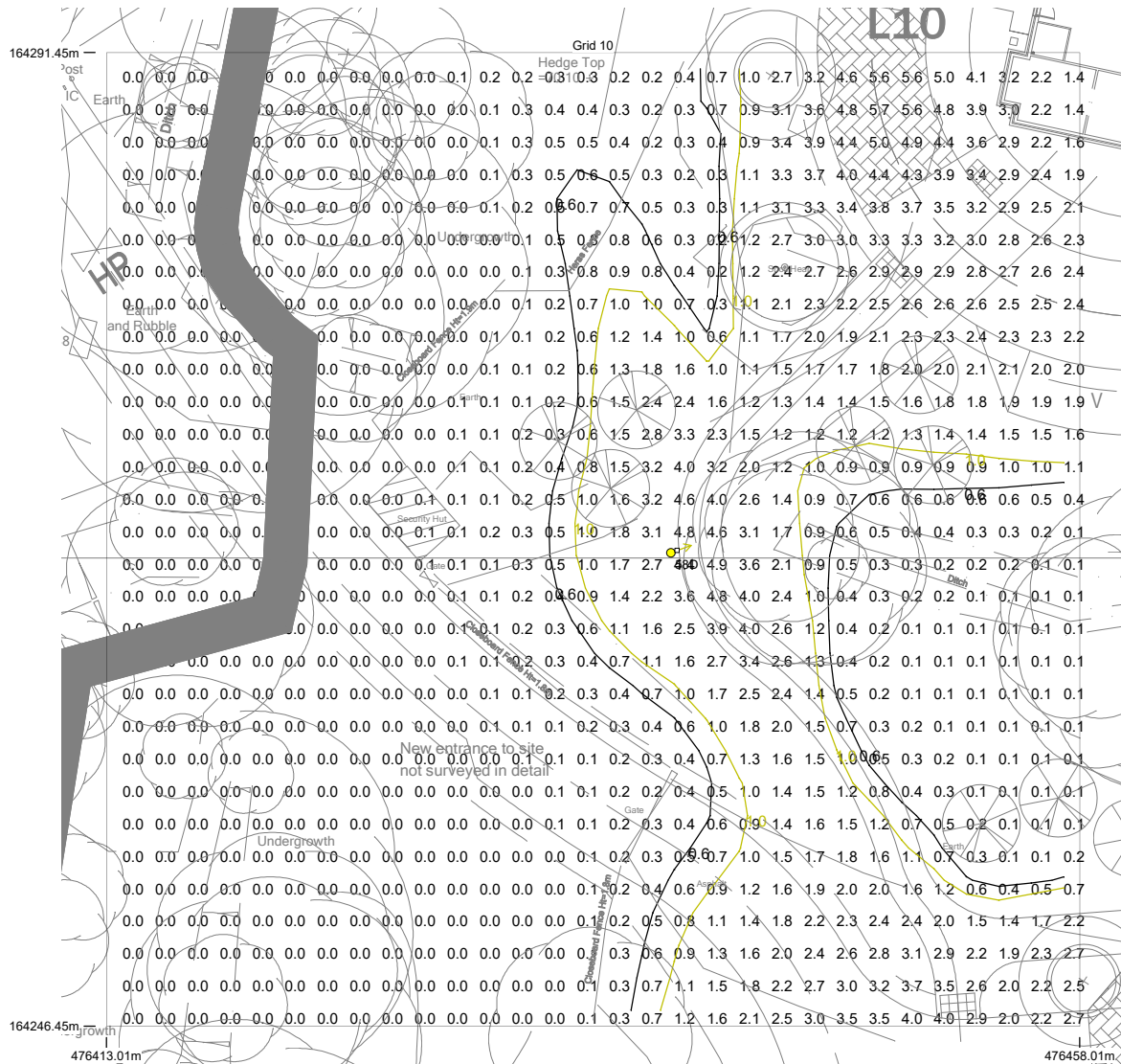


Results

Eav	3.69
Emin	0.81
Emax	6.66
Emin/Emax	0.12
Emin/Eav	0.22

Horizontal Illuminance (lux)

Grid 10



Results

Eav	0.84
Emin	0.00
Emax	5.66
Emin/Emax	0.00
Emin/Eav	0.00