

DATE: 18 March 2026
DESIGNER: MMA Lighting Consultancy Ltd
PROJECT No: MMA20118
PROJECT NAME: Pinewood, Oakham Park



Proposed Private Lighting Design - R1

6m Columns with Philips Luma Gen2 Micro BL 2700K LED
Luminaires

BS5489-1:2020
Lighting Class: P5
Eav 3.00 - 4.50 Lux
Emin 0.60 Lux

Base drawing number used in this calculation 'PIN100360-MCB-
ZZ-ZZ-DR-A-0230-D5-P01-Site Layout Plan'

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	483633.68	165867.21	72.00	33.00	1.50	1.50
2	Grid 2	483616.75	165884.33	90.00	30.00	1.50	1.50
3	Grid 3	483600.28	165977.73	70.46	30.00	1.50	1.50
4	Grid 4	483661.77	165974.69	87.00	57.00	1.50	1.50
5	Grid 5	483647.34	166057.70	57.00	33.00	1.50	1.50
6	Grid 6	483566.15	166047.46	30.00	37.55	1.50	1.50
7	Grid 7	483536.12	166036.43	33.00	51.00	1.50	1.50
8	Grid 8	483472.81	166071.41	24.00	64.52	1.50	1.50
9	Grid 9	483483.50	165932.44	24.00	64.52	1.50	1.50
10	Grid 10	483561.16	165996.91	27.00	99.23	1.50	1.50
11	Contour Grid	483705.25	166113.35	273.49	246.14	1.50	1.50

Luminaires

Luminaire A Data

Supplier	
Type	BGP702 DM10 BL1
Lamp(s)	LED-HB 5.2S 727
LampFlux(klm)/Colour	2.00 2700/70
File Name	Luma Gen2 Micro_BGP702_DM10 BL1_2000_10LED_5.2S_CLO_L90_727.lgt
Maintenance Factor	0.76
Lum. Int. Class	G3
No. in Project	21

Luminaire E Data

Supplier	
Type	BGP702 DW50 BL1
Lamp(s)	LED-HB 5.2S 727
LampFlux(klm)/Colour	3.80 2700/70
File Name	Luma Gen2 Micro_BGP702_DW50 BL1_3800_20LED_5.2S_CLO_L90_727.lgt
Maintenance Factor	0.76
Lum. Int. Class	G3
No. in Project	2

Luminaire F Data

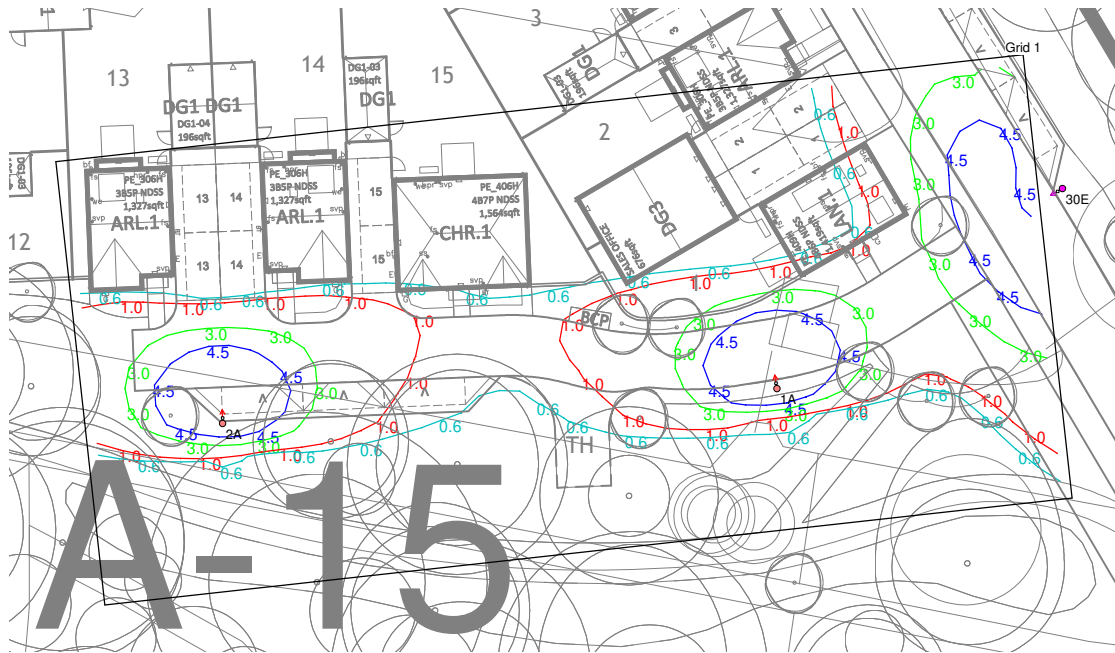
Supplier	
Type	BGP702 DM10 BL1
Lamp(s)	LED-HB 5.2S 727
LampFlux(klm)/Colour	2.80 2700/70
File Name	Luma Gen2 Micro_BGP702_DM10 BL1_2800_20LED_5.2S_CLO_L90_727.lgt
Maintenance Factor	0.76
Lum. Int. Class	G3
No. in Project	7

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	483683.42	165883.21	6.00	100.00	0.00	0.00	0.40			
2	A	483642.41	165880.64	6.00	92.00	0.00	0.00	0.40			
3	A	483601.24	165907.46	6.00	2.00	0.00	0.00	0.40			
4	F	483601.10	165942.42	6.00	10.00	0.00	0.00	0.40			
5	A	483590.82	165959.38	6.00	38.00	0.00	0.00	0.40			
6	A	483576.88	165979.85	6.00	29.00	0.00	0.00	0.40			
7	A	483561.79	166006.76	6.00	43.00	0.00	0.00	0.40			
8	A	483615.50	166028.37	6.00	14.00	0.00	0.00	0.40			
9	A	483633.82	165995.47	6.00	103.00	0.00	0.00	0.40			
10	A	483606.14	165994.09	6.00	104.00	0.00	0.00	0.40			
11	A	483625.99	165984.36	6.00	194.00	0.00	0.00	0.40			
12	F	483655.66	166004.34	6.00	194.00	0.00	0.00	0.40			
13	A	483629.14	166097.75	6.00	196.00	0.00	0.00	0.40			
14	F	483616.27	166053.47	6.00	286.00	0.00	0.00	0.40			
15	A	483637.47	166070.81	6.00	193.00	0.00	0.00	0.40			
16	A	483545.28	166055.70	6.00	292.00	0.00	0.00	0.40			
17	A	483514.80	166037.00	6.00	111.00	0.00	0.00	0.40			
18	F	483535.95	166044.40	6.00	203.00	0.00	0.00	0.40			
19	A	483498.84	166044.71	6.00	98.00	0.00	0.00	0.40			
20	A	483444.74	166045.78	6.00	348.00	0.00	0.00	0.40			
21	A	483522.26	165898.01	6.00	61.00	0.00	0.00	0.40			
22	F	483447.87	166019.67	6.00	191.00	0.00	0.00	0.40			
23	F	483470.09	165928.49	6.00	40.00	0.00	0.00	0.40			
24	A	483497.02	165905.86	6.00	57.00	0.00	0.00	0.40			
25	A	483575.72	165915.52	6.00	188.00	0.00	0.00	0.40			
26	A	483569.81	165945.93	6.00	195.00	0.00	0.00	0.40			
27	A	483458.10	166069.66	6.00	335.00	0.00	0.00	0.40			
28	F	483559.03	165974.60	6.00	205.00	0.00	0.00	0.40			
29	E	483544.16	166025.85	6.00	291.00	0.00	0.00	0.40			
30	E	483704.53	165898.01	6.00	210.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1

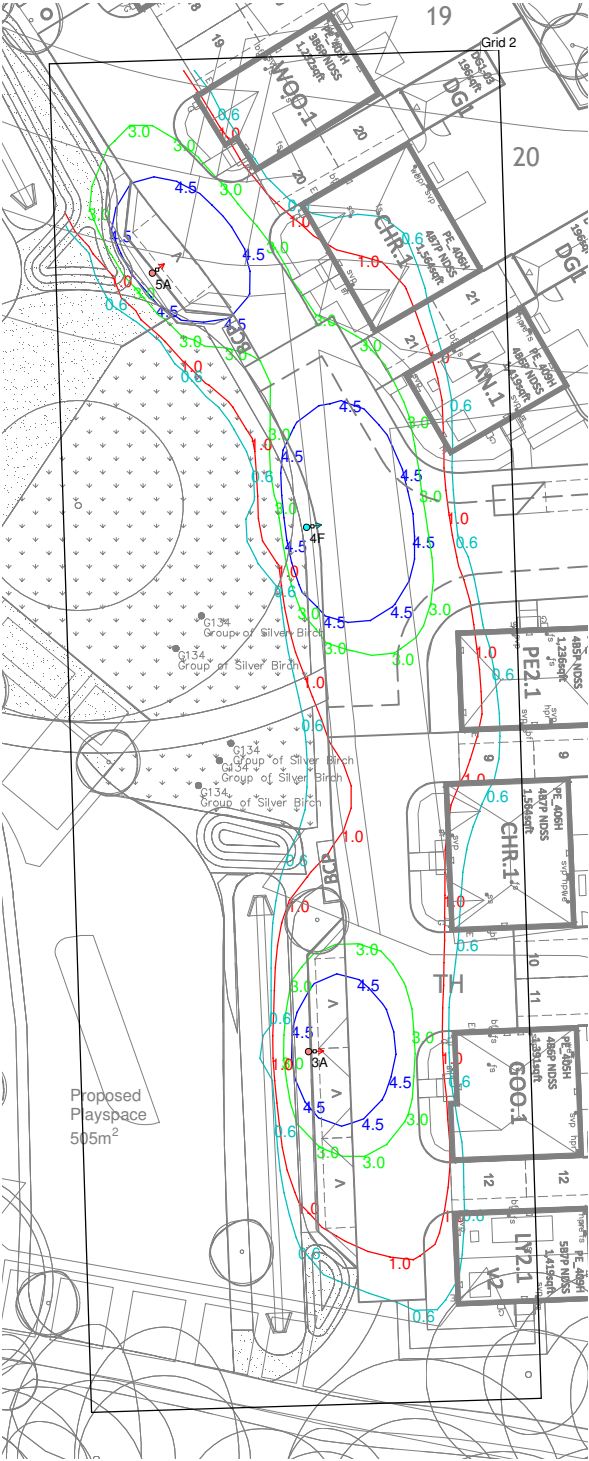


Results

Eav	3.07
Emin	0.62
Emax	8.51
Emin/Emax	0.07
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 2

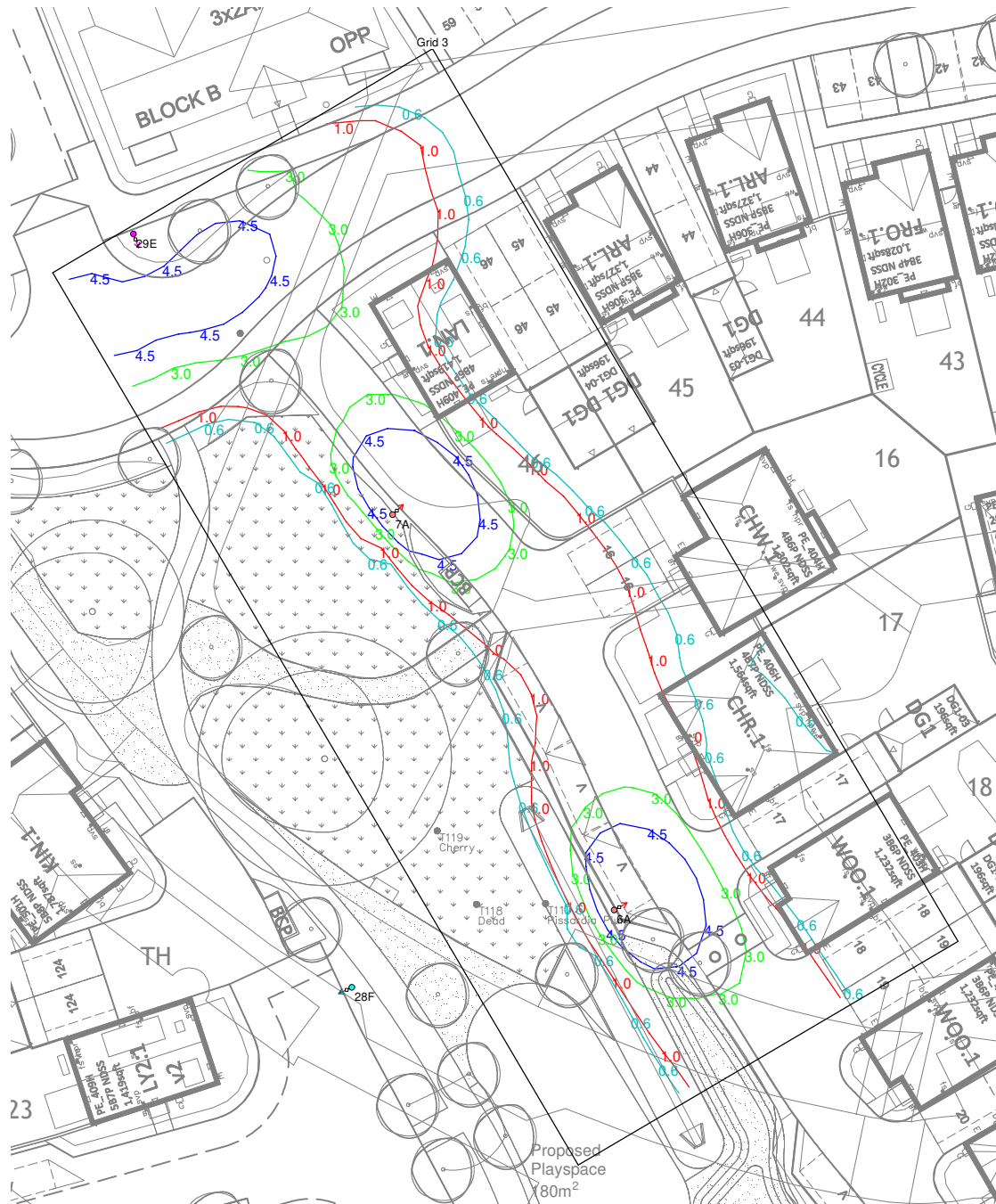


Results

Eav	3.54
Emin	0.70
Emax	8.70
Emin/Emax	0.08
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 3

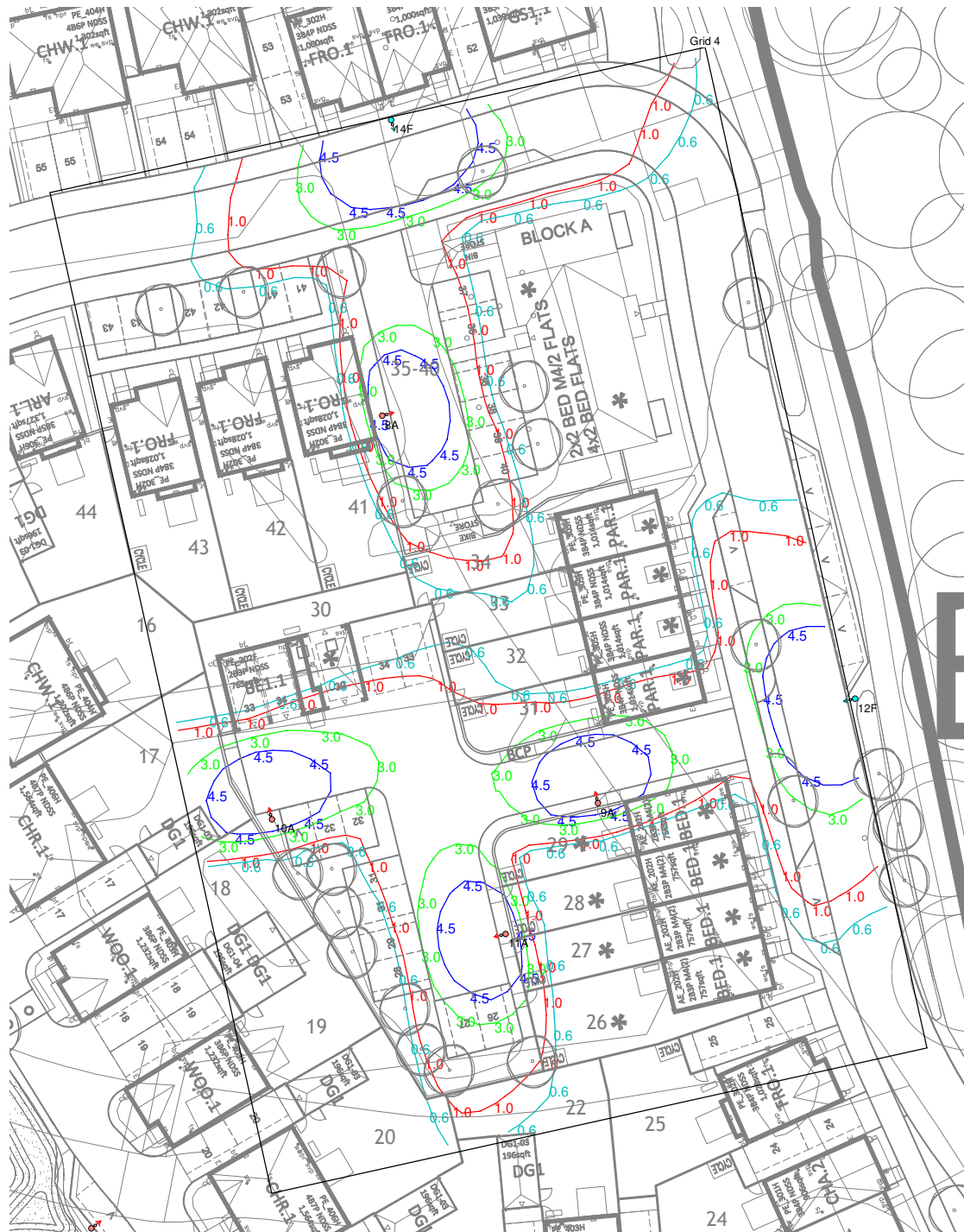


Results

Eav	3.61
Emin	0.87
Emax	8.66
Emin/Emax	0.10
Emin/Eav	0.24

Horizontal Illuminance (lux)

Grid 4

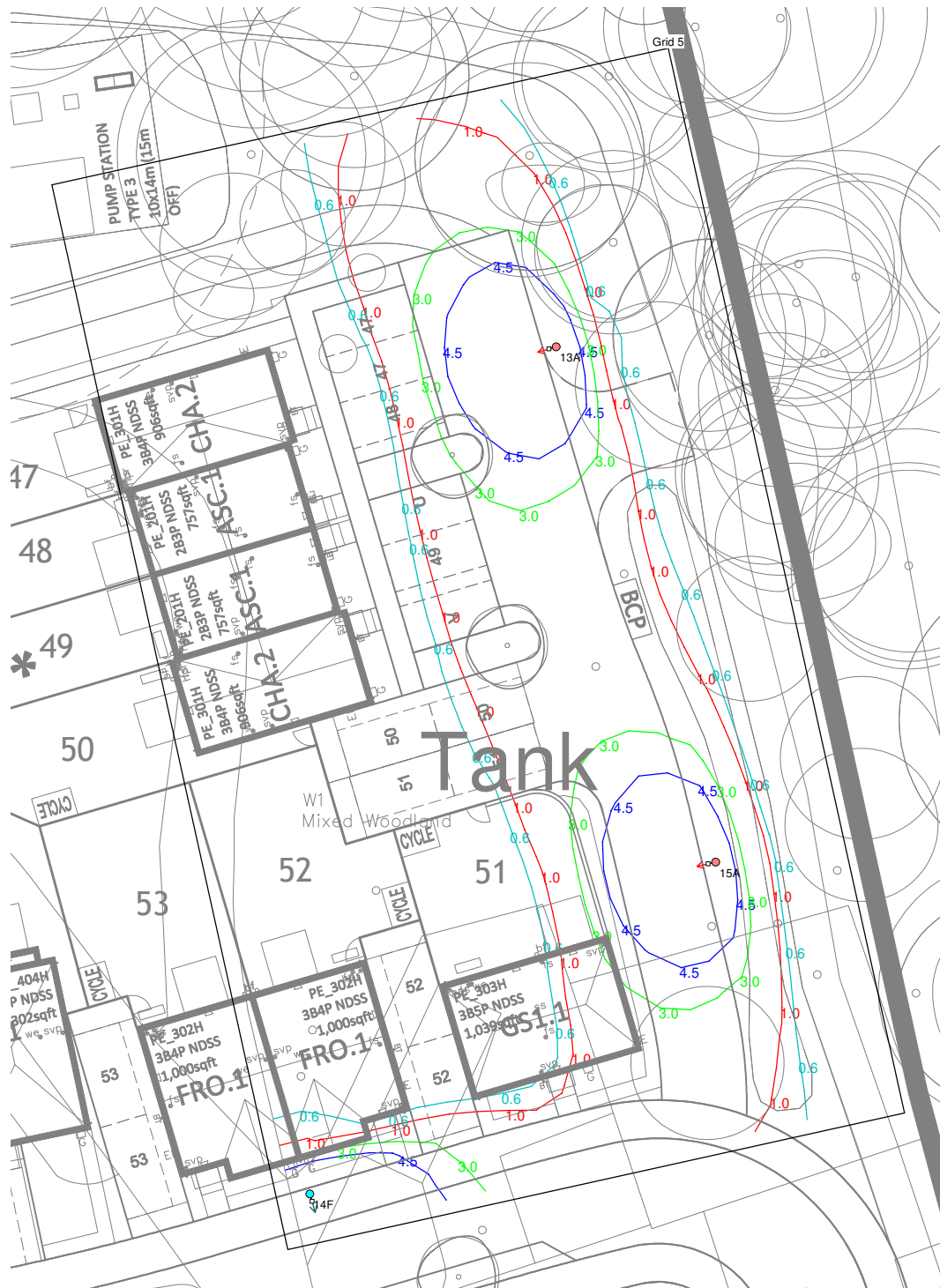


Results

Eav	3.86
Emin	1.10
E _{max}	8.68
E _{min} /E _{max}	0.13
E _{min} /E _{av}	0.28

Horizontal Illuminance (lux)

Grid 5

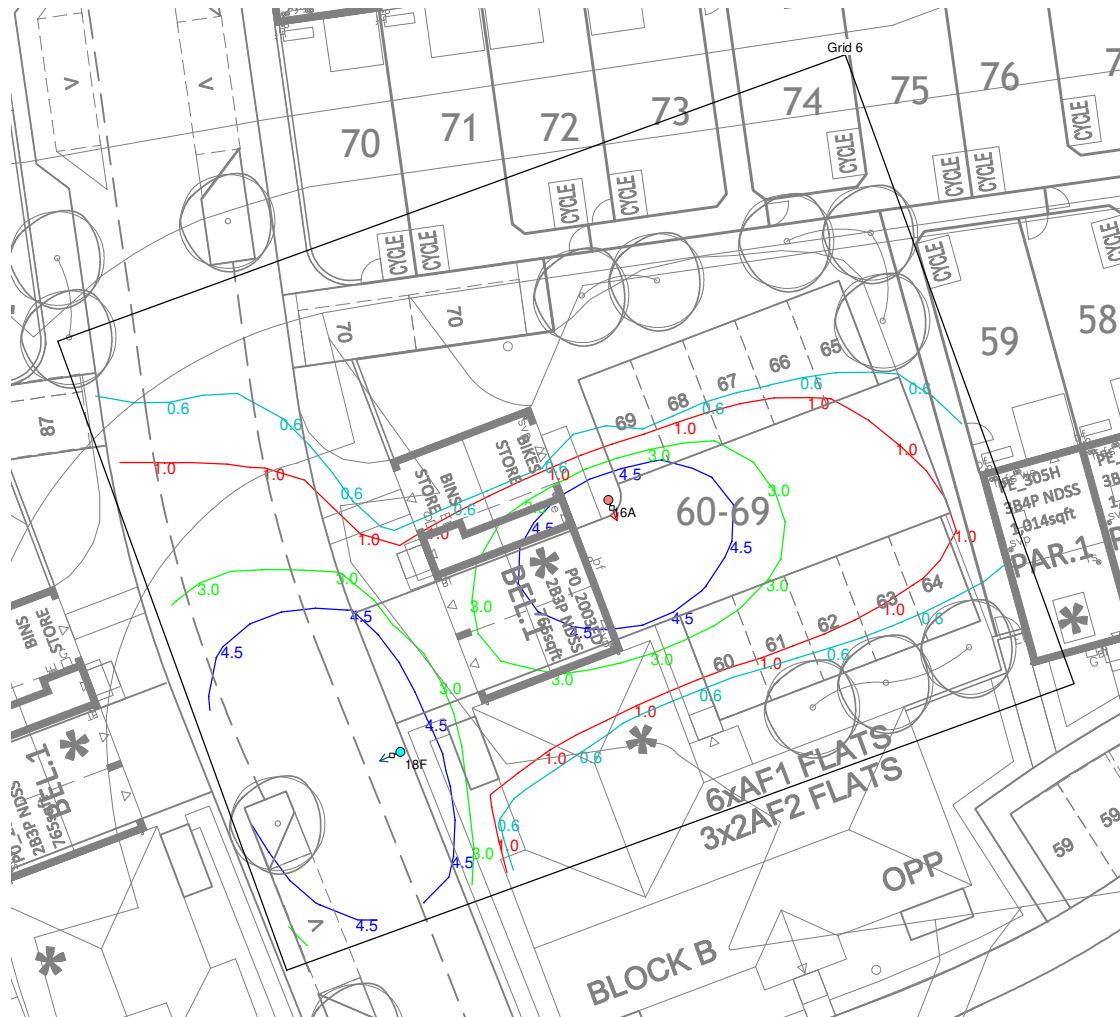


Results

Eav	3.89
Emin	1.24
Emax	8.59
Emin/Emax	0.14
Emin/Eav	0.32

Horizontal Illuminance (lux)

Grid 6

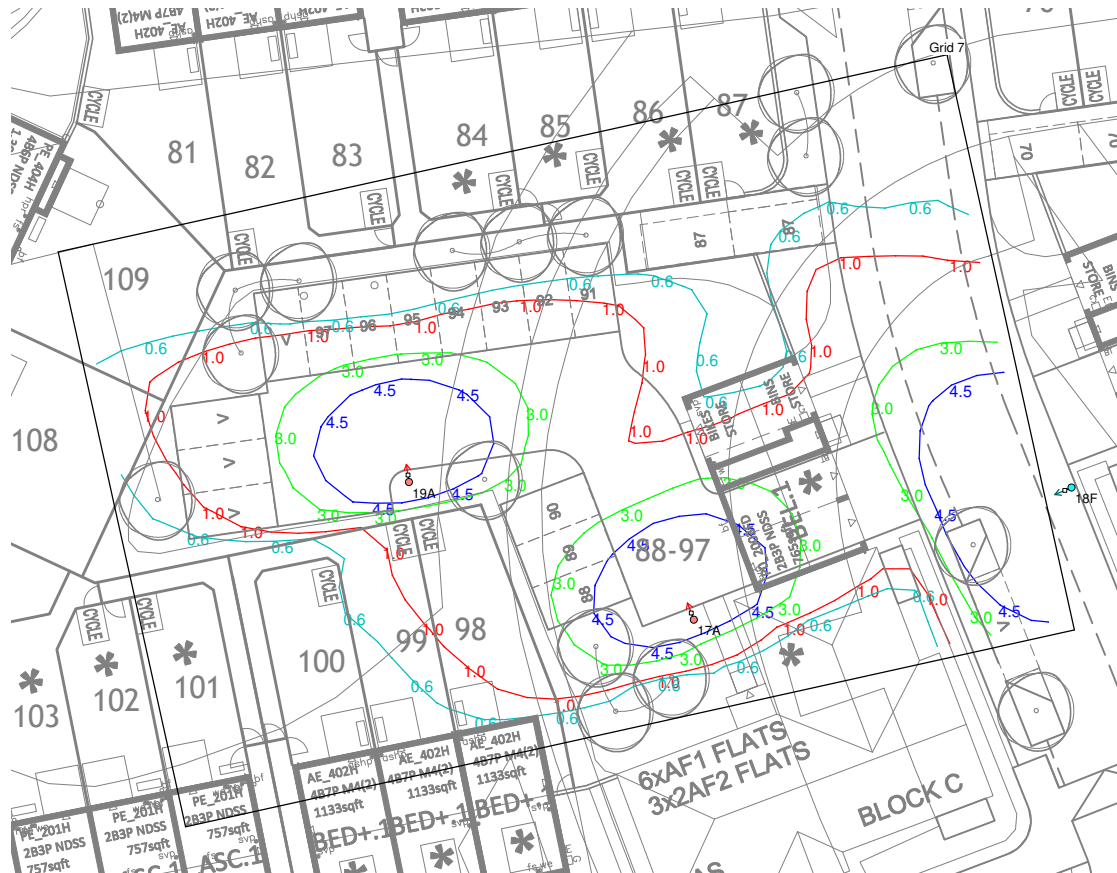


Results

Eav	3.78
Emin	0.84
Emax	8.34
Emin/Emax	0.10
Emin/Eav	0.22

Horizontal Illuminance (lux)

Grid 7

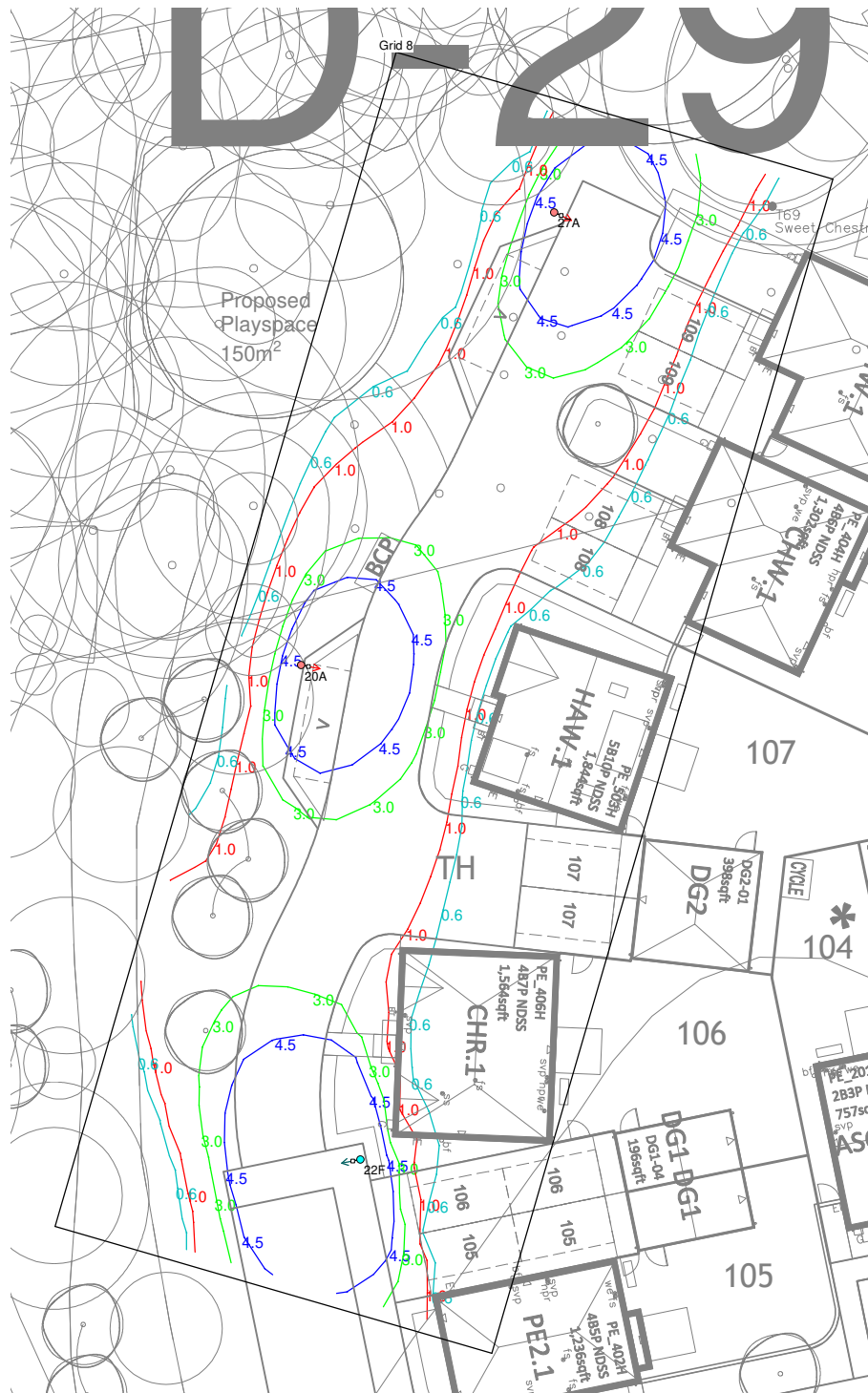


Results

Eav	3.80
Emin	0.82
Emax	8.47
Emin/Emax	0.10
Emin/Eav	0.22

Horizontal Illuminance (lux)

Grid 8

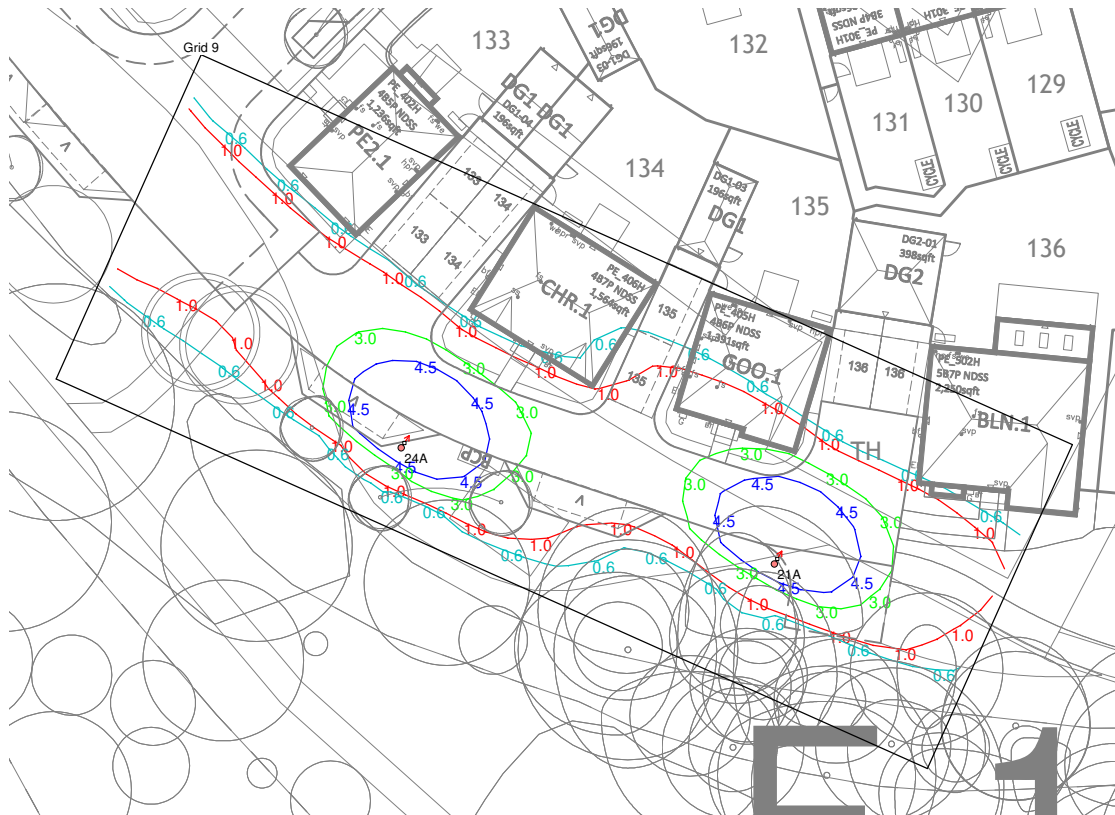


Results

Eav	4.10
Emin	1.58
Emax	10.33
Emin/Emax	0.15
Emin/Eav	0.38

Horizontal Illuminance (lux)

Grid 9

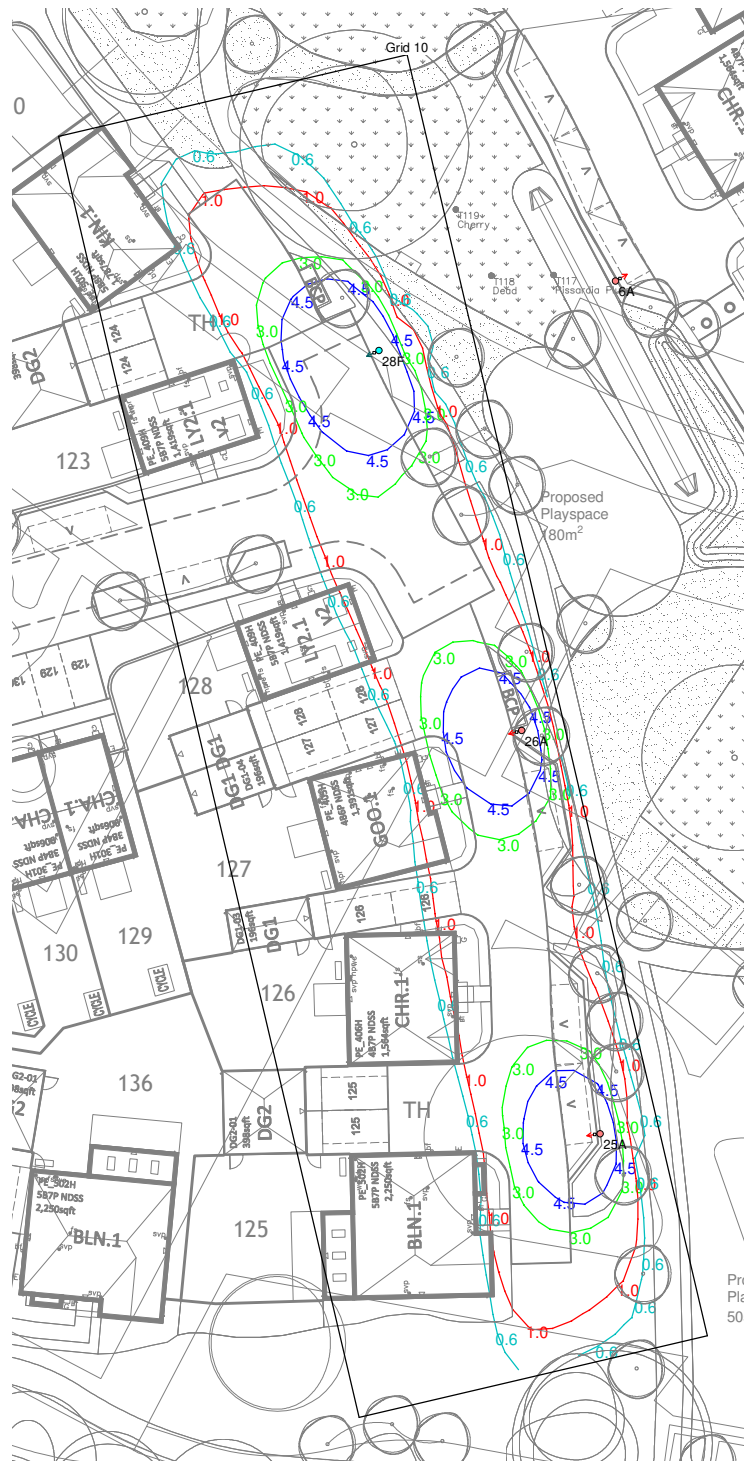


Results

Eav	3.85
Emin	0.96
Emax	8.60
Emin/Emax	0.11
Emin/Eav	0.25

Horizontal Illuminance (lux)

Grid 10



Results

Eav	3.62
Emin	1.29
Emax	8.62
Emin/Emax	0.15
Emin/Eav	0.36