

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 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	483754.37	165684.59	42.00	123.12	1.50	1.50
2	Grid 2	483733.65	165793.88	45.00	118.29	1.50	1.50
3	Grid 3	483628.58	165872.47	108.00	154.42	1.50	1.50
4	Grid 4	483657.67	166049.24	36.00	136.22	1.50	1.50
5	Grid 5	483538.27	165992.19	54.00	99.00	1.50	1.50
6	Grid 6	483478.34	166025.51	136.37	81.00	1.50	1.50
7	Grid 7	483474.22	165904.30	39.00	78.00	1.50	1.50
8	Grid 8	483500.92	165918.92	85.48	42.00	1.50	1.50
9	Contour Grid	483429.04	165684.59	366.62	459.78	1.50	1.84

Luminaires

Luminaire A 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.Idt
Maintenance Factor	0.76
Lum. Int. Class	G3
No. in Project	6

Luminaire B Data

Supplier	
Type	BGP702 DW50
Lamp(s)	LED-HB 5.2S 727
LampFlux(klm)/Colour	2.40 2700/70
File Name	Luma Gen2 Micro_BGP702_DW50_2400_10LED_5.2S_CLO_L90_727.Idt
Maintenance Factor	0.76
Lum. Int. Class	G3
No. in Project	6

Luminaire C 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.Idt
Maintenance Factor	0.76
Lum. Int. Class	G3
No. in Project	21

Luminaire F Data

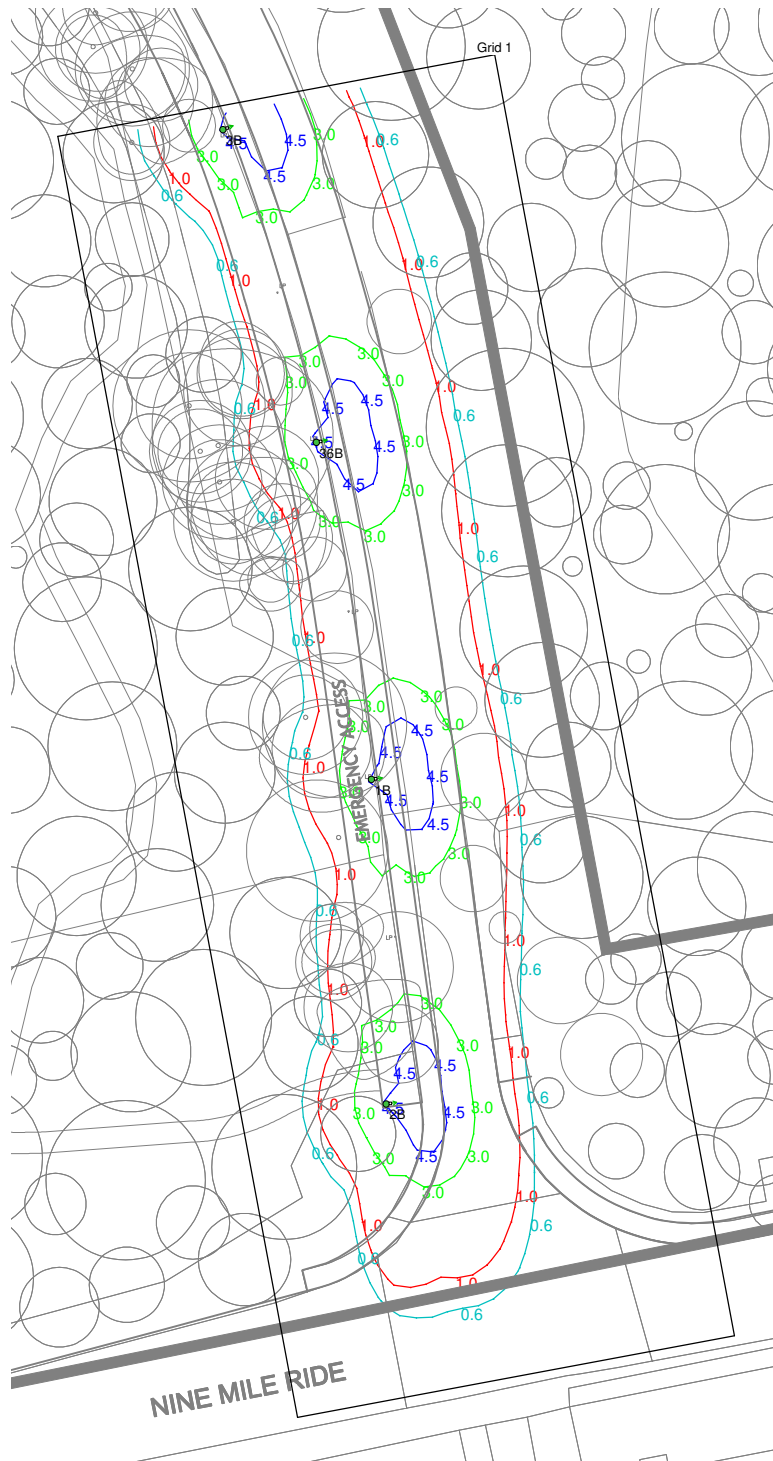
Supplier	
Type	BGP702 DM10 BL1
Lamp(s)	LED-HB 5.2S 727
LampFlux(klm)/Colour	2.00 2700/70
File Name	Luma Gen2 Micro_BGP702_DM10 BL1_2000_10LED_5.2S_CLO_L90_727.Idt
Maintenance Factor	0.76
Lum. Int. Class	G3
No. in Project	3

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	B	483761.36	165744.85	6.00	9.00	0.00	0.00	0.40			
2	B	483762.74	165714.21	6.00	8.00	0.00	0.00	0.40			
3	B	483747.34	165806.26	6.00	22.00	0.00	0.00	0.40			
4	B	483733.08	165832.87	6.00	30.00	0.00	0.00	0.40			
5	B	483716.38	165863.56	6.00	30.00	0.00	0.00	0.40			
6	A	483704.53	165898.01	6.00	210.00	0.00	0.00	0.40			
7	A	483675.01	165931.78	6.00	26.00	0.00	0.00	0.40			
8	C	483658.54	165967.47	6.00	25.00	0.00	0.00	0.40			
9	C	483655.66	166004.34	6.00	194.00	0.00	0.00	0.40			
10	C	483640.15	166036.71	6.00	9.00	0.00	0.00	0.40			
11	C	483616.27	166053.47	6.00	286.00	0.00	0.00	0.40			
12	C	483580.36	166035.03	6.00	114.00	0.00	0.00	0.40			
13	A	483544.16	166025.85	6.00	291.00	0.00	0.00	0.40			
14	C	483513.59	166016.44	6.00	284.00	0.00	0.00	0.40			
15	C	483535.95	166044.40	6.00	203.00	0.00	0.00	0.40			
16	C	483473.49	166007.70	6.00	280.00	0.00	0.00	0.40			
17	C	483447.87	166019.67	6.00	191.00	0.00	0.00	0.40			
18	C	483446.08	165989.02	6.00	13.00	0.00	0.00	0.40			
19	C	483529.04	166074.17	6.00	186.00	0.00	0.00	0.40			
20	A	483533.67	166088.30	6.00	100.00	0.00	0.00	0.40			
21	C	483593.93	166095.17	6.00	188.00	0.00	0.00	0.40			
22	A	483567.31	166093.06	6.00	99.00	0.00	0.00	0.40			
23	A	483497.09	166081.69	6.00	98.00	0.00	0.00	0.40			
24	C	483470.09	165928.49	6.00	40.00	0.00	0.00	0.40			
25	C	483488.09	165941.23	6.00	316.00	0.00	0.00	0.40			
26	C	483461.52	165958.54	6.00	207.00	0.00	0.00	0.40			
27	C	483515.08	165955.87	6.00	286.00	0.00	0.00	0.40			
28	C	483559.03	165974.60	6.00	205.00	0.00	0.00	0.40			
29	C	483601.10	165942.42	6.00	10.00	0.00	0.00	0.40			
30	C	483626.48	165938.57	6.00	94.00	0.00	0.00	0.40			
31	C	483652.92	165951.04	6.00	287.00	0.00	0.00	0.40			
32	F	483633.82	165995.47	6.00	103.00	0.00	0.00	0.40			
33	C	483543.43	165955.13	6.00	105.00	0.00	0.00	0.40			
34	F	483569.81	165945.93	6.00	195.00	0.00	0.00	0.40			
35	F	483497.02	165905.86	6.00	57.00	0.00	0.00	0.40			
36	B	483756.17	165776.72	6.00	12.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1

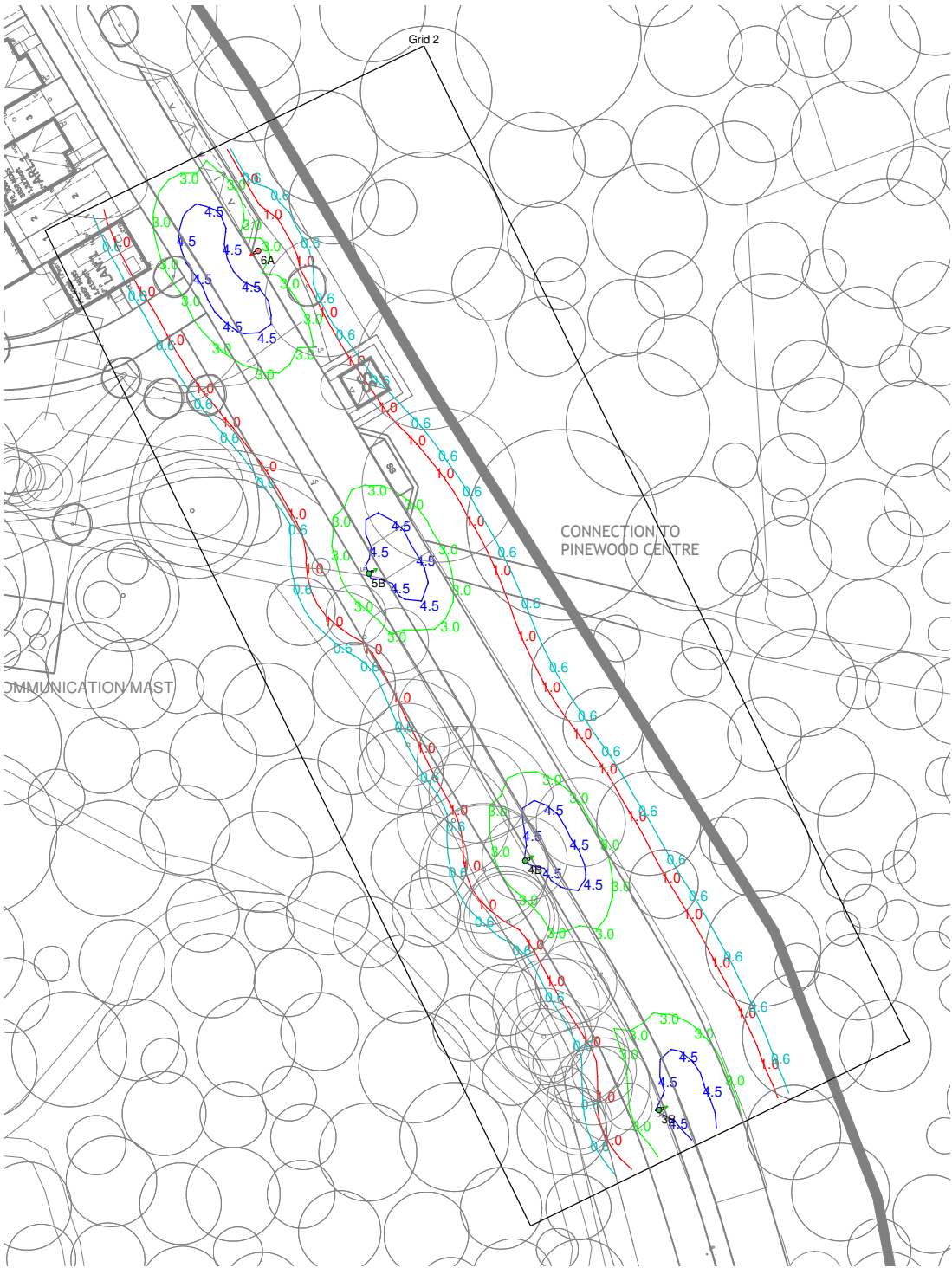


Results

Eav	3.14
Emin	0.72
Emax	5.13
Emin/Emax	0.14
Emin/Eav	0.23

Horizontal Illuminance (lux)

Grid 2

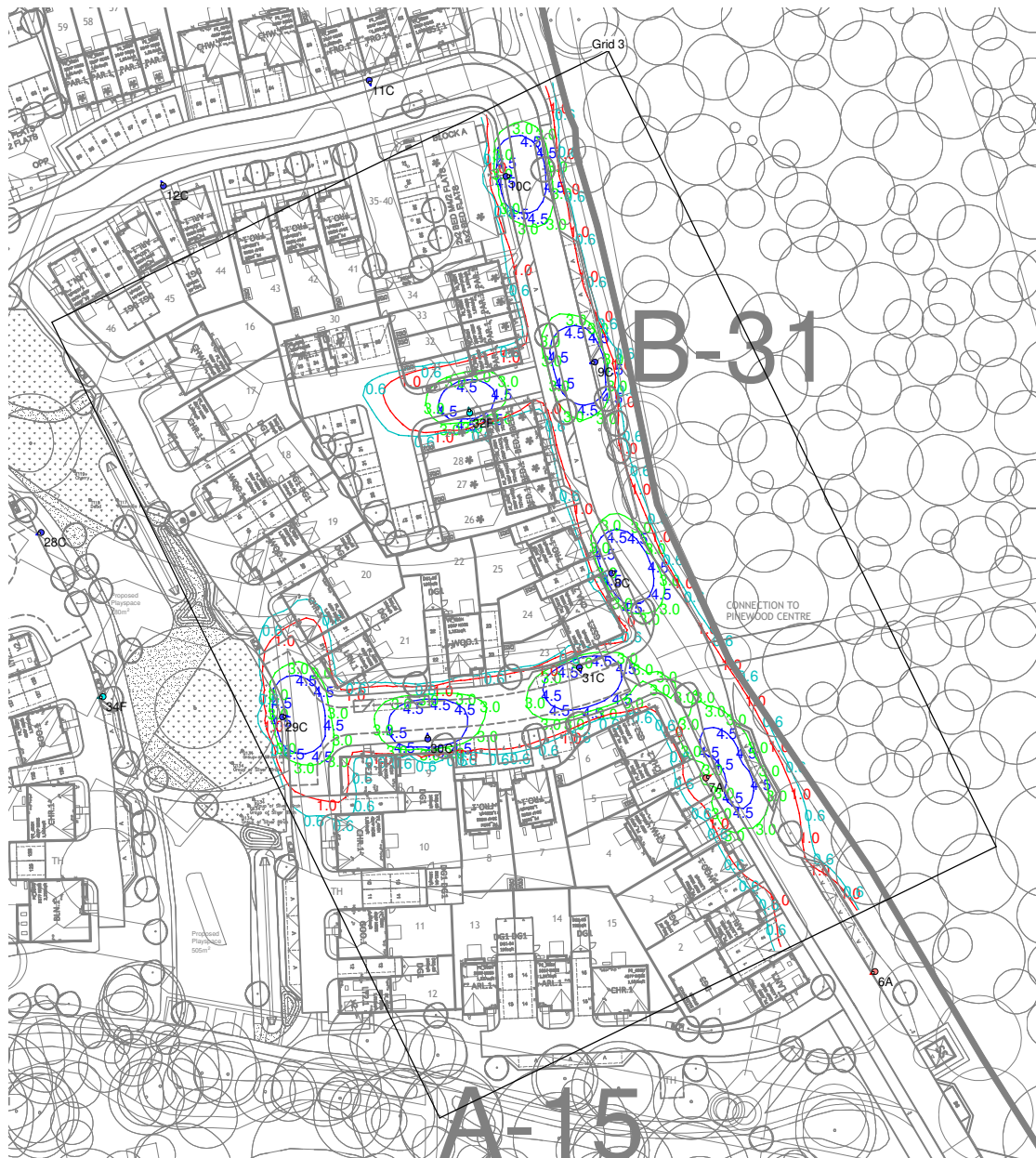


Results

Eav	3.14
Emin	0.90
Emax	5.84
Emin/Emax	0.15
Emin/Eav	0.29

Horizontal Illuminance (lux)

Grid 3



Results

Eav	3.73
Emin	0.80
Emax	12.32
Emin/Emax	0.06
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 4

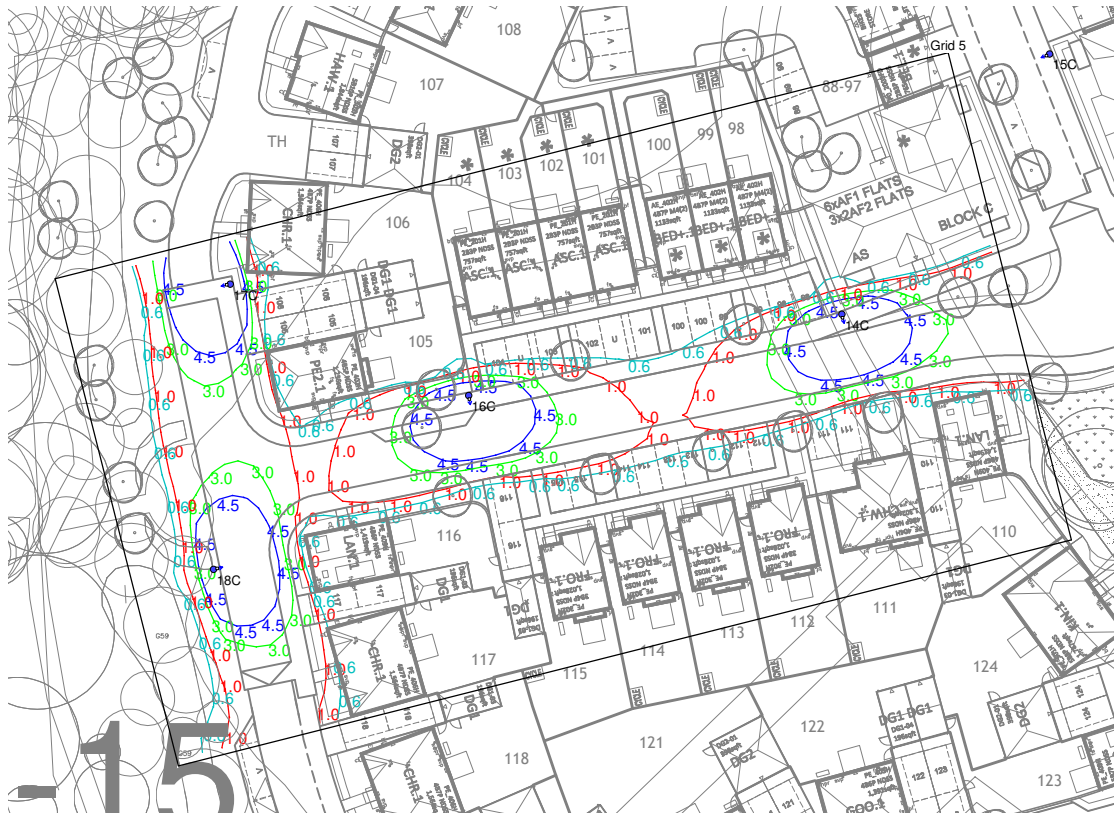


Results

Eav	3.06
Emin	0.61
Emax	11.75
Emin/Emax	0.05
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 5



Results

Eav	3.46
Emin	0.68
Emax	12.13
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 6

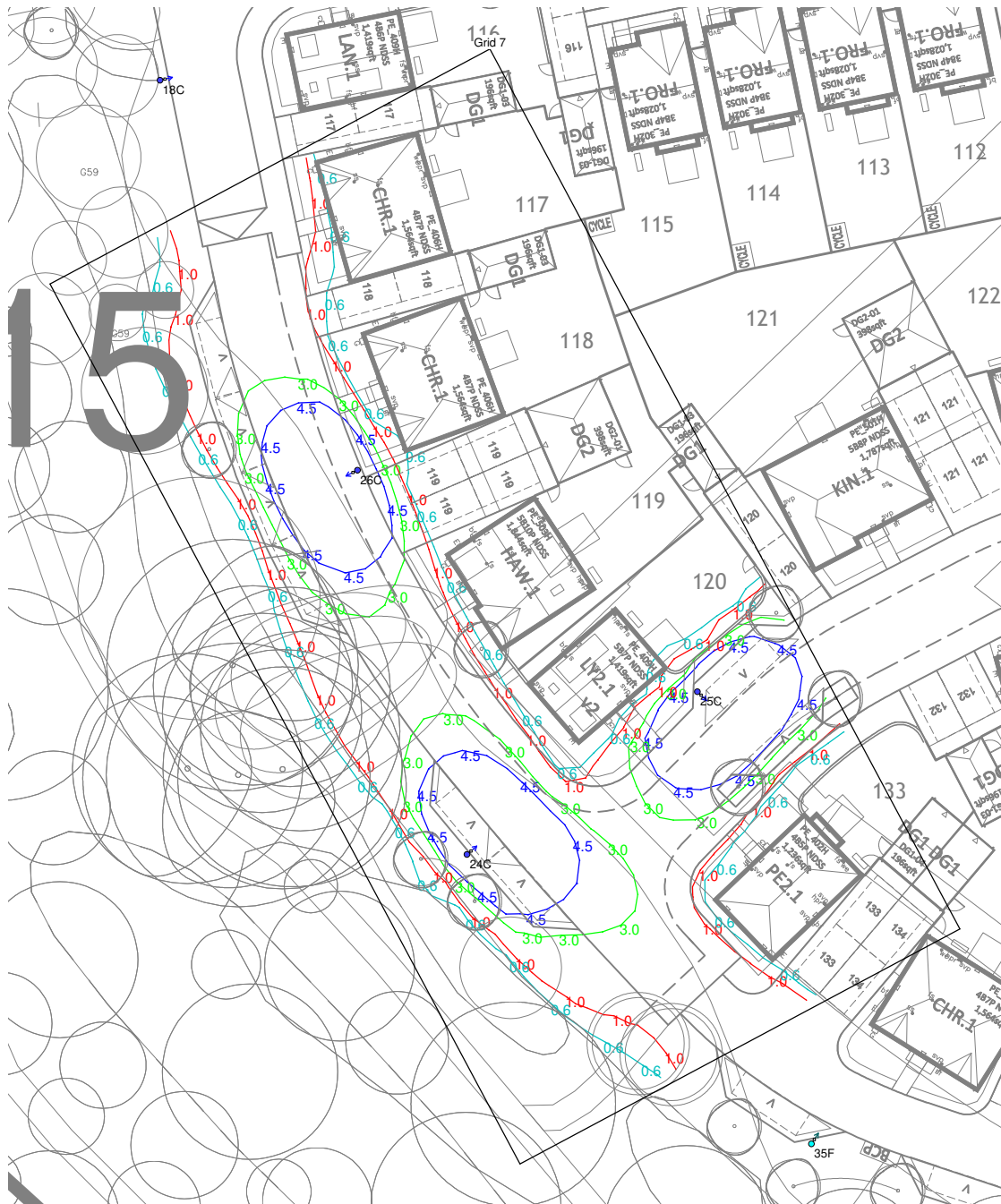


Results

Eav	3.59
Emin	0.70
Emax	11.89
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 7

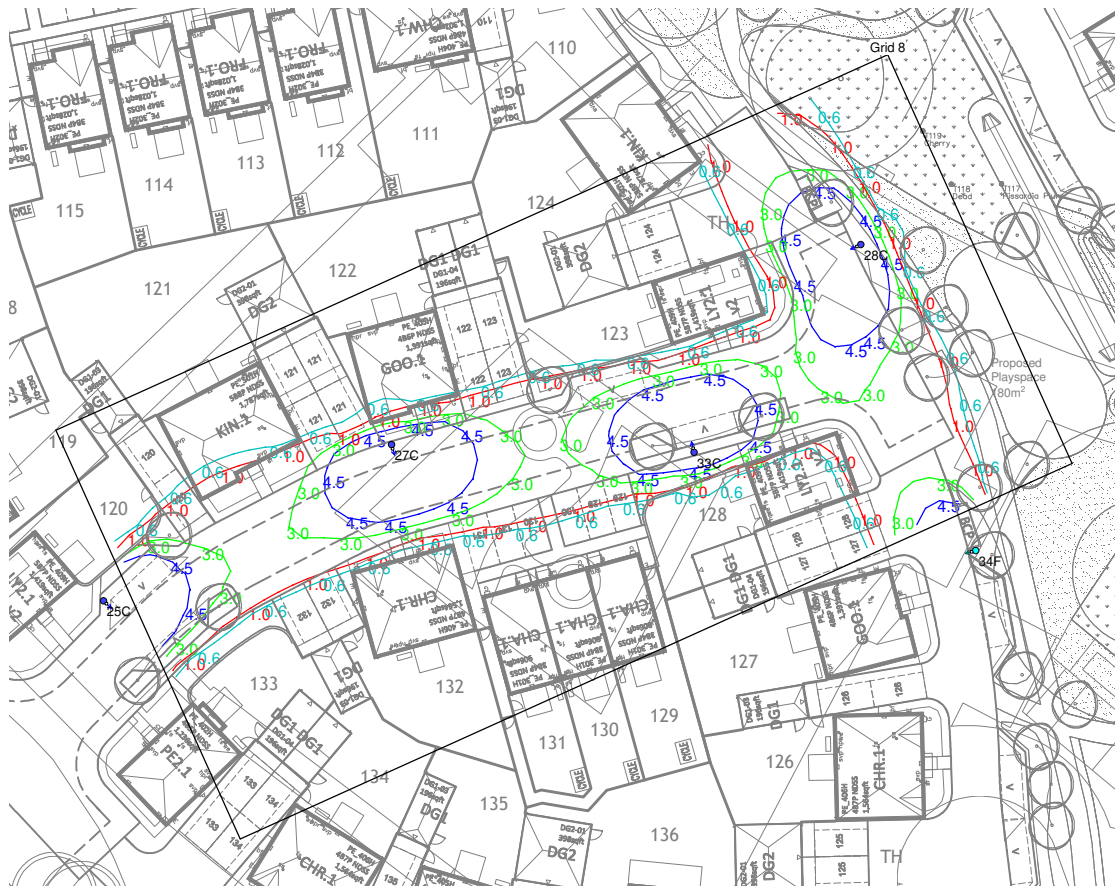


Results

Eav	4.01
Emin	0.92
Emax	11.98
Emin/Emax	0.08
Emin/Eav	0.23

Horizontal Illuminance (lux)

Grid 8



Results

Eav	4.43
Emin	0.92
Emax	12.27
Emin/Emax	0.07
Emin/Eav	0.21