

DATE: 4 April 2025
DESIGNER: Carlos Medina
PROJECT No: 2331
PROJECT NAME: Rathfranham

**LIGHTING
REALITY**

Outdoor Lighting Report

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_Overall	-103.56	33.99	210.01	146.72	1.00	1.00
2	Grid 2_Courtyard1	-87.84	96.97	29.07	15.58	1.45	1.42
3	Grid 3_Courtyard2	-56.26	89.82	31.58	24.59	1.44	1.45
4	Grid 4_Courtyard3	-25.44	87.72	45.61	32.57	1.47	1.48
5	Grid 5_Courtyard4	20.95	88.93	27.76	25.67	1.46	1.43
6	Grid 6_Walkway	83.00	87.93	10.00	71.07	1.43	1.48
7	Grid 7_Entry Road	-73.27	121.12	118.25	19.81	1.50	1.42
8	Grid 8_Entry Ftpth	-71.04	119.89	88.39	1.27	1.50	0.63
9	Grid 9_Road1	40.63	129.03	36.29	5.88	1.45	1.47
10	Grid 10_Road2	55.04	99.78	5.87	29.03	0.98	1.00
11	Grid 11_Road3	54.91	94.03	21.98	5.81	1.47	1.45
12	Grid 12_Road4	70.96	99.96	5.87	28.92	1.47	1.45
13	Grid 13_Prkg1	45.78	135.20	35.83	6.91	1.49	1.38
14	Grid 14_Prkg2	49.84	96.90	5.02	27.61	1.25	1.45
15	Grid 15_Parkng3	54.94	89.03	22.07	4.93	1.47	1.23
16	Grid 16_Prkg4	76.98	97.00	5.02	37.98	1.25	1.46
17	Grid 17_Prkg5	61.00	101.90	9.85	22.55	1.41	1.41
18	Grid 18	55.94	94.95	3.98	32.00	0.16	1.28

Luminaires



Luminaire A Data

Supplier	Thorn Lighting UK & Ireland
Type	G35AMENITY_U0 018LED 350mA RS optic
Lamp(s)	LED 3000K CRI 70
LampFlux(klm)/Colour	2.35 3000/70
File Name	PLD U018L35RS730.LDT
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	350.2, 19.7, 0.0
No. in Project	19

Luminaire C Data

Supplier	
Type	UA 24L35-740 NR CL1 T60E ANT
Lamp(s)	UA24L35-740NR 26C3W
LampFlux(klm)/Colour	4.11 4000/70
File Name	UA 24L35-740 NR CL1 T60E ANT_96671788_(STD).LDT
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	463.9, 26.0, 0.0
No. in Project	15

Luminaire F Data

Supplier	
Type	PLD R 18L35-740 R/S BS 3550 T60 CL1 GY
Lamp(s)	PLD18L35-740RS 19C7W
LampFlux(klm)/Colour	2.73 4000/70
File Name	PLD R 18L35-740 RS BS 3550 T60 CL1 GY_9668666_(STD).LDT
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	323.9, 35.0, 6.0
No. in Project	7

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Layout

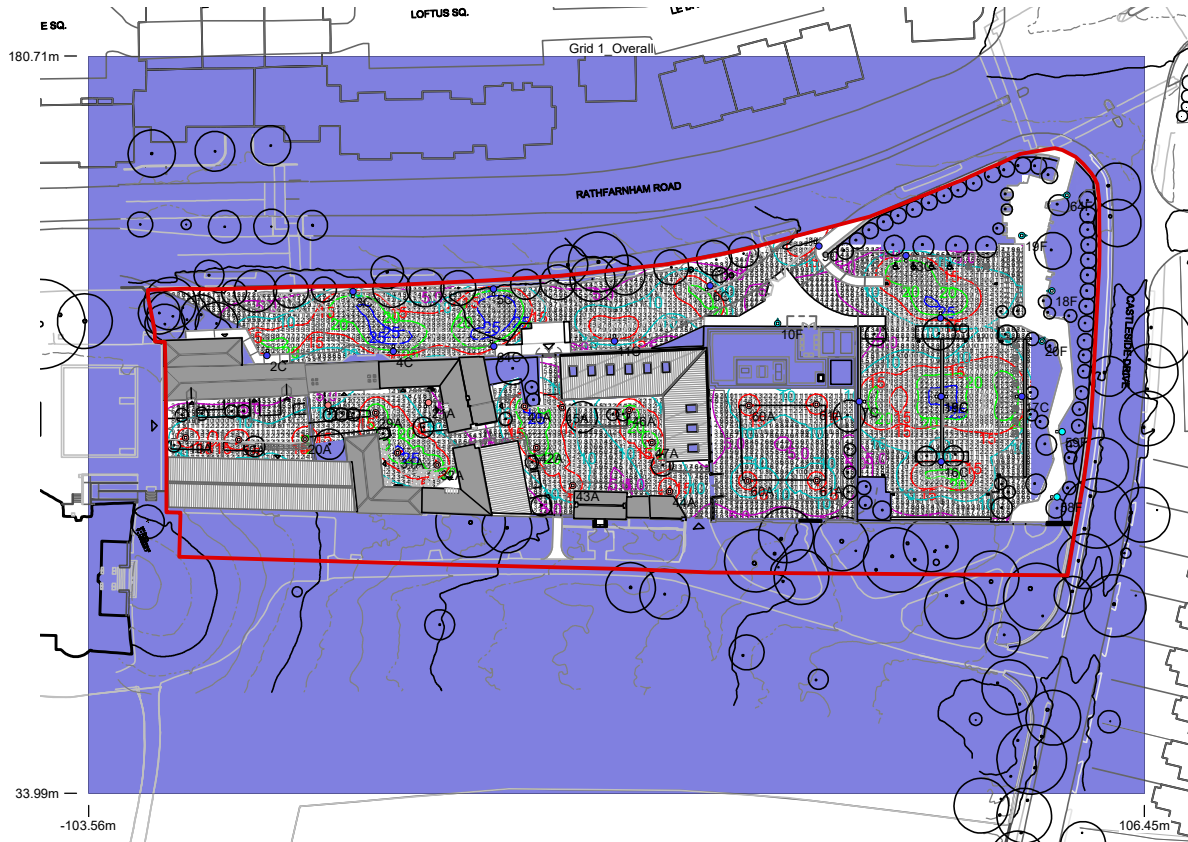
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
2	C	-68.09	121.13	6.00	83.00	12.00	0.00	1.00			
3	C	-50.97	133.89	6.00	270.00	12.00	0.00	1.00			
4	C	-43.00	122.00	6.00	90.00	12.00	0.00	1.00			
5	C	-23.09	134.37	6.00	270.00	12.00	0.00	1.00			
6	C	20.00	135.00	6.00	227.00	12.00	0.00	1.00			
7	C	49.68	112.00	6.00	0.00	12.00	0.00	1.00			
9	C	41.66	142.92	6.00	134.00	12.00	0.00	1.00			
10	F	33.44	127.49	6.00	90.00	0.00	0.00	0.00			
11	C	1.00	124.00	6.00	90.00	12.00	0.00	1.00			
13	C	59.00	141.00	6.00	270.00	12.00	0.00	1.00			
14	C	65.83	128.57	6.00	90.00	12.00	0.00	1.00			
16	C	66.00	100.00	6.00	270.00	12.00	0.00	1.00			
18	F	88.00	134.00	6.00	180.00	0.00	0.00	0.00			
19	F	82.00	145.00	6.00	0.00	0.00	0.00	0.00			
20	F	86.00	124.00	6.00	52.00	0.00	0.00	0.00			
17	C	82.00	113.00	6.00	180.00	12.00	0.00	1.00			
18	C	66.00	113.00	6.00	0.00	12.00	0.00	1.00			
19	C	66.00	113.00	6.00	180.00	12.00	0.00	1.00			
19	A	-84.26	104.79	3.00	195.00	0.00	0.00	0.00			
20	A	-60.54	104.51	3.00	125.00	0.00	0.00	0.00			
21	A	-35.97	111.77	6.00	230.00	0.00	0.00	1.00			
22	A	-55.95	111.25	6.00	274.00	0.00	0.00	1.00			
29	A	-46.47	109.73	3.00	279.00	0.00	0.00	0.00			
31	A	-42.17	101.83	3.00	18.00	0.00	0.00	0.00			
32	A	-34.24	99.38	3.00	107.00	0.00	0.00	0.00			
40	A	-16.87	111.04	3.00	296.00	0.00	0.00	0.00			
42	A	-14.44	102.82	3.00	240.00	0.00	0.00	0.00			
43	A	-7.24	95.32	3.00	222.00	0.00	0.00	0.00			
44	A	11.94	94.09	3.00	86.00	0.00	0.00	0.00			
45	A	-9.40	110.74	4.00	155.00	0.00	0.00	0.00			
46	A	3.95	110.28	3.00	13.00	0.00	0.00	0.00			
47	A	8.43	103.82	3.00	156.00	0.00	0.00	0.00			
60	A	27.47	96.22	3.00	0.00	0.00	0.00	0.00			
61	A	41.17	111.39	3.00	180.00	0.00	0.00	0.00			
64	F	91.00	153.00	6.00	180.00	0.00	0.00	0.00			
64	C	-23.00	123.00	6.00	117.00 3	12.00	0.00	1.00			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out- reach	Target X	Target Y	Target Z
58	F	89.00	93.00	6.00	180.00	0.00	0.00	1.00			
59	F	90.00	106.00	6.00	180.00	0.00	0.00	1.00			
60	A	27.71	111.20	3.00	0.00	0.00	0.00	0.00			
61	A	41.23	96.24	3.00	283.00	0.00	0.00	0.00			
59	A	-73.74	104.39	3.00	238.00	0.00	0.00	0.00			

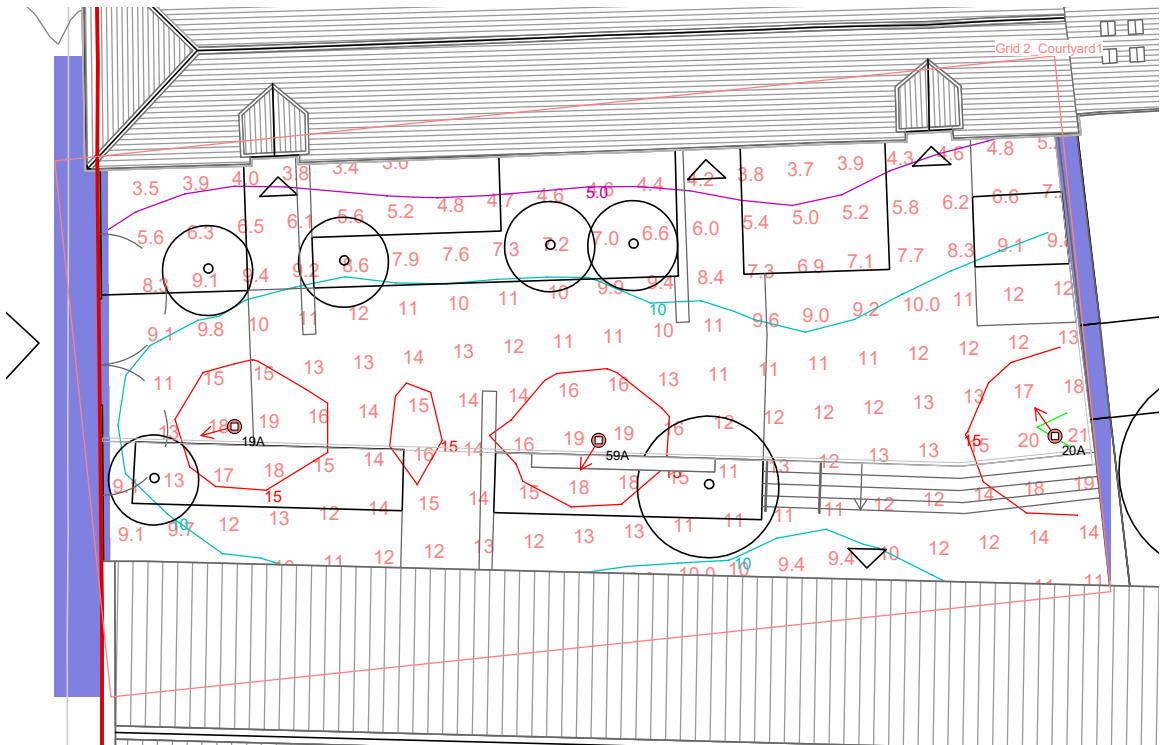
Horizontal Illuminance (lux)

Grid 1_Overall



Horizontal Illuminance (lux)

Grid 2_Courtyard1

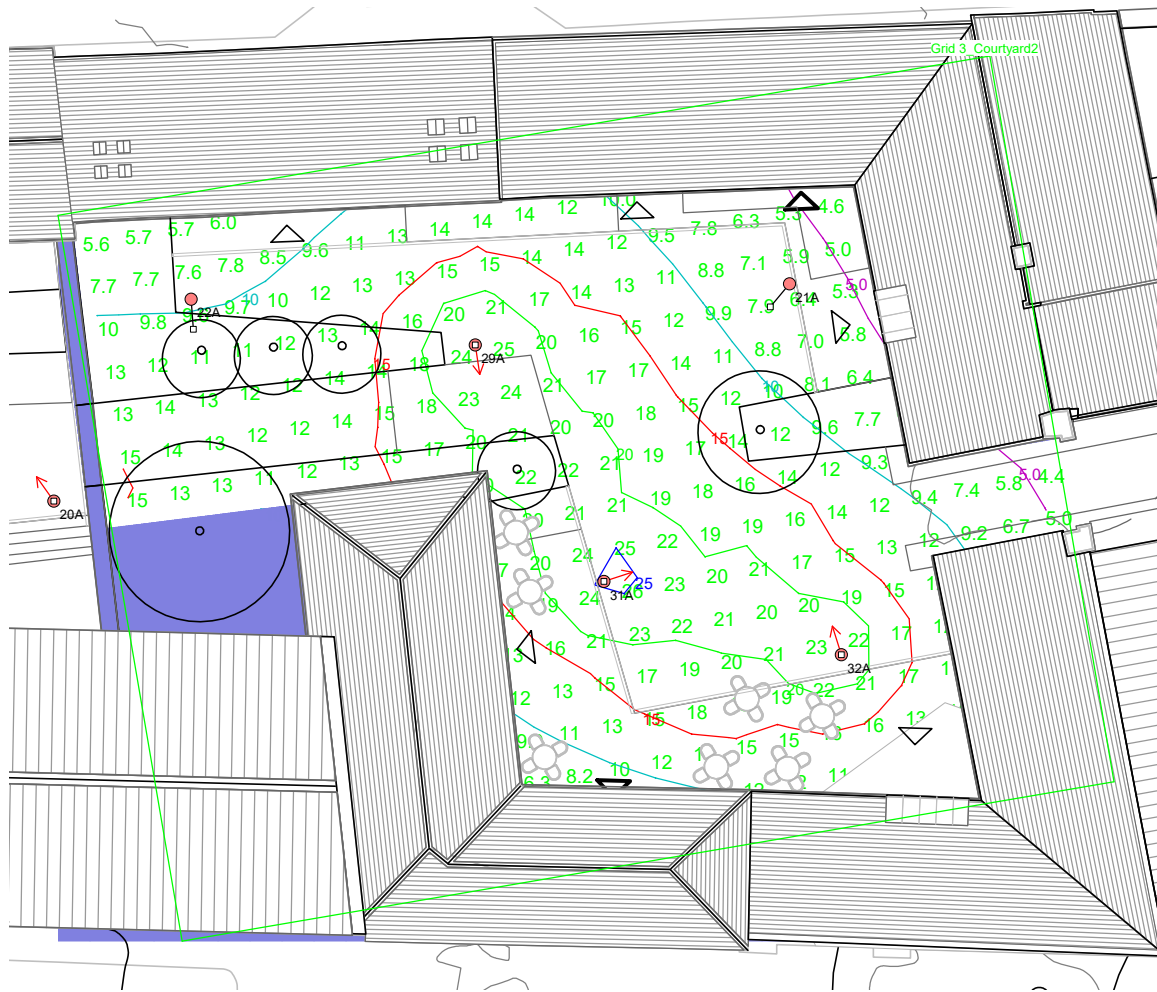


Results

Eav	10.80
Emin	2.95
Emax	20.66
Emin/Emax	0.14
Emin/Eav	0.27

Horizontal Illuminance (lux)

Grid 3_Courtyard2

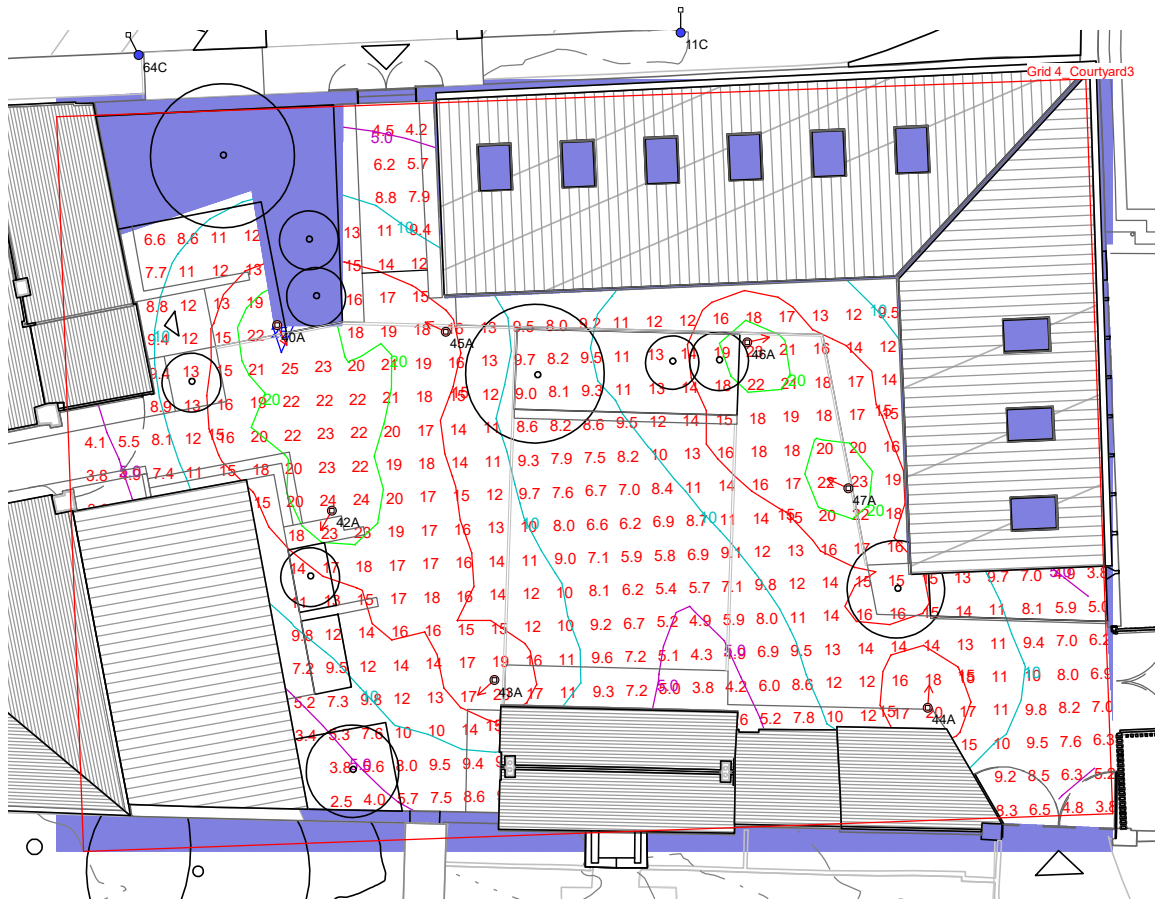


Results

Eav	13.65
Emin	3.96
Emax	26.01
Emin/Emax	0.15
Emin/Eav	0.29

Horizontal Illuminance (lux)

Grid 4_Courtyard3

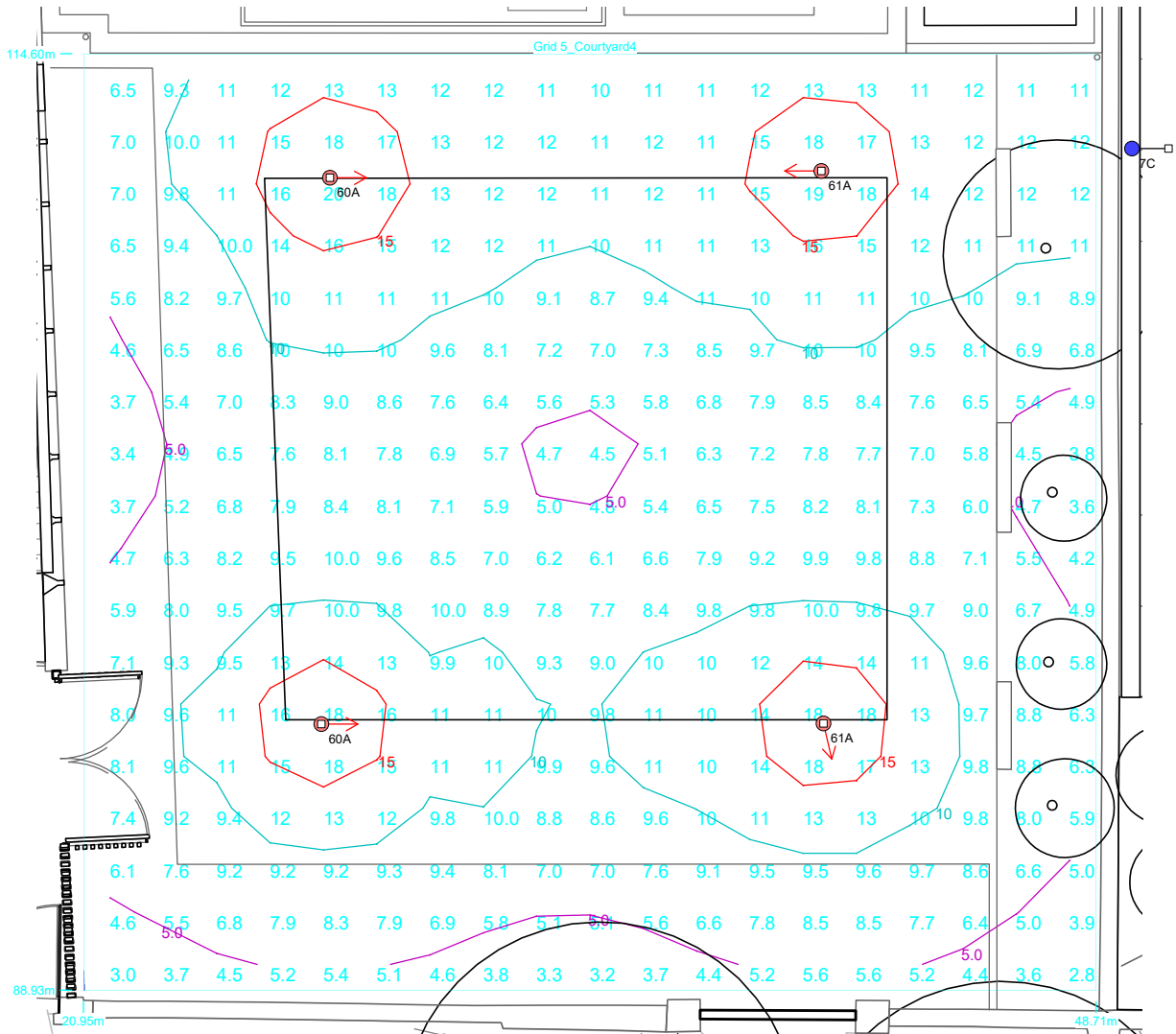


Results

Eav	12.35
Emin	2.50
Emax	24.75
Emin/Emax	0.10
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 5_Courtyard4

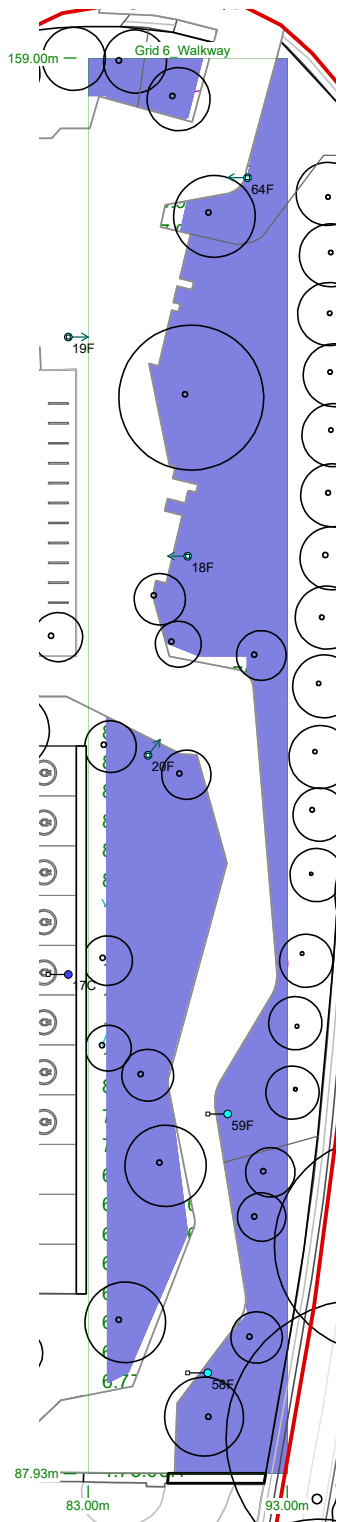


Results

Eav	9.26
Emin	2.80
E _{max}	19.91
Emin/E _{max}	0.14
Emin/Eav	0.30

Horizontal Illuminance (lux)

Grid 6_Walkway

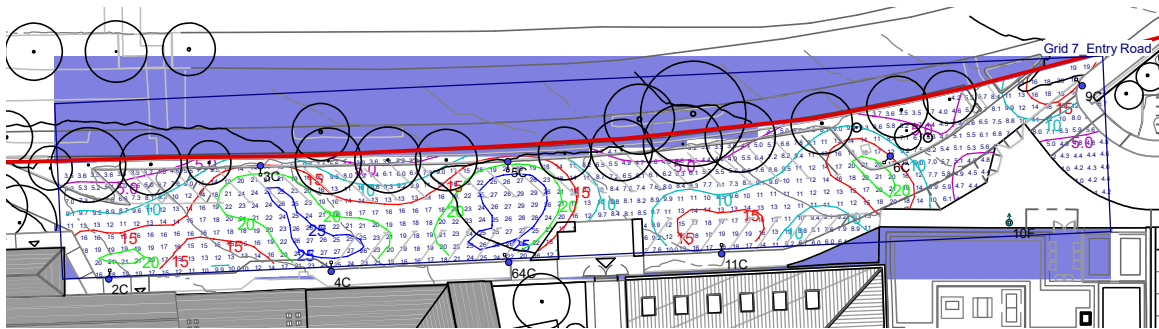


Results

Eav	7.49
Emin	2.19
Emax	11.65
Emin/Emax	0.19

Horizontal Illuminance (lux)

Grid 7_Entry Road

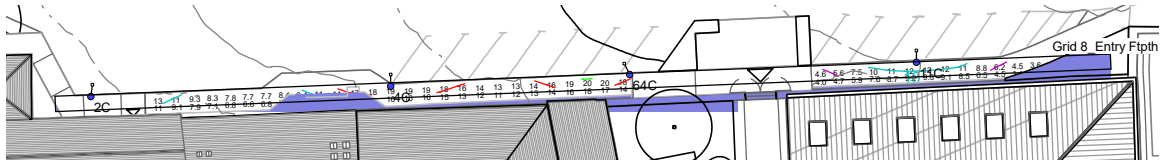


Results

Eav	12.53
Emin	3.05
Emax	29.07
Emin/Emax	0.10
Emin/Eav	0.24

Horizontal Illuminance (lux)

Grid 8_Entry Ftpth

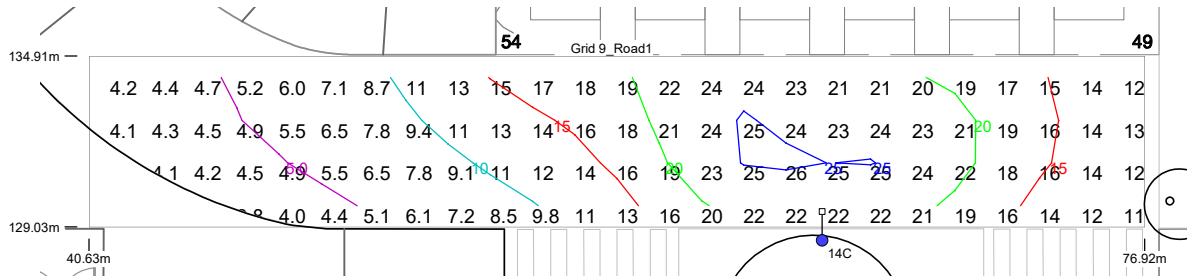


Results

Eav	10.34
Emin	2.56
E _{max}	20.11
Emin/E _{max}	0.13
Emin/Eav	0.25

Horizontal Illuminance (lux)

Grid 9_Road1

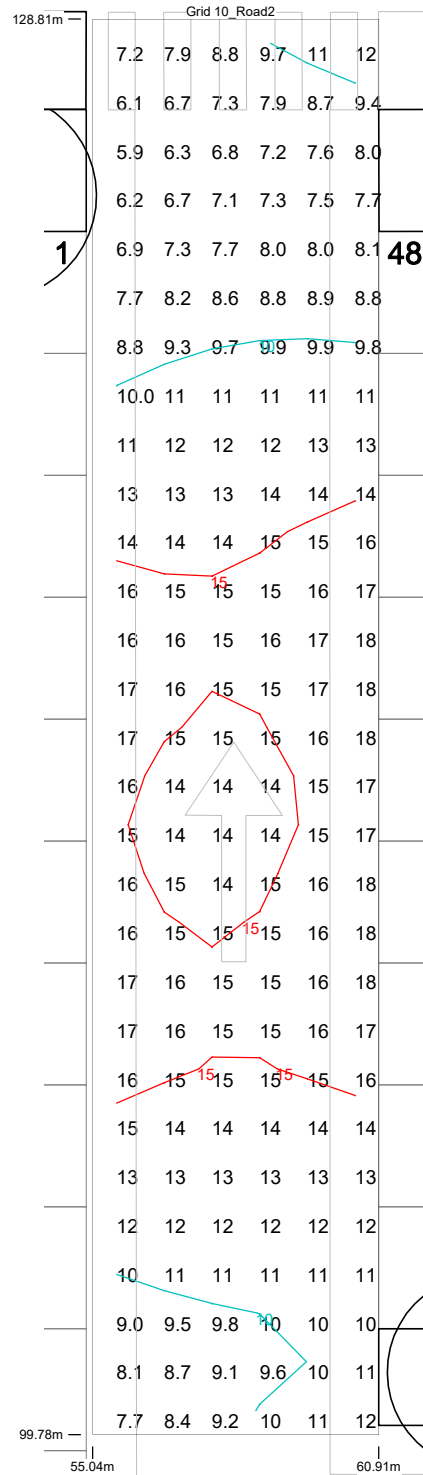


Results

Eav	13.85
Emin	3.64
E _{max}	25.52
E _{min} /E _{max}	0.14
E _{min} /E _{av}	0.26

Horizontal Illuminance (lux)

Grid 10_Road2

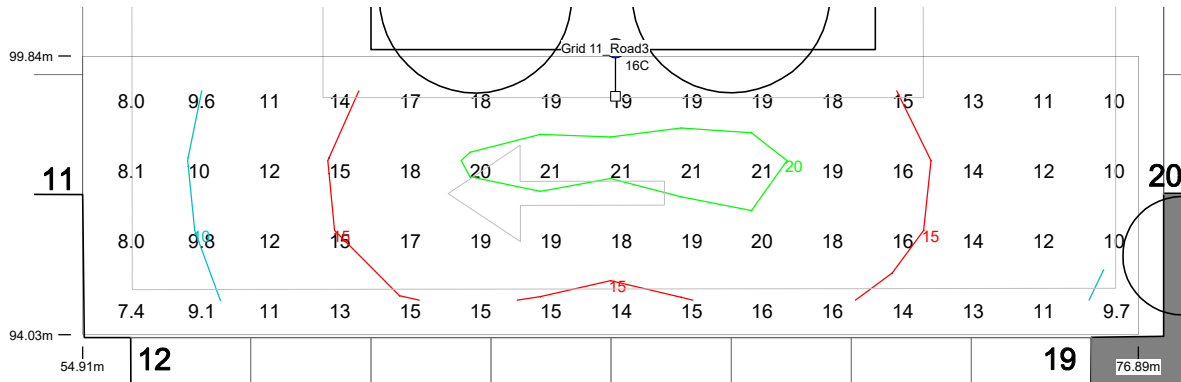


Results

Eav	12.43
Emin	5.87
Emax	18.28
Emin/Emax	0.32

Horizontal Illuminance (lux)

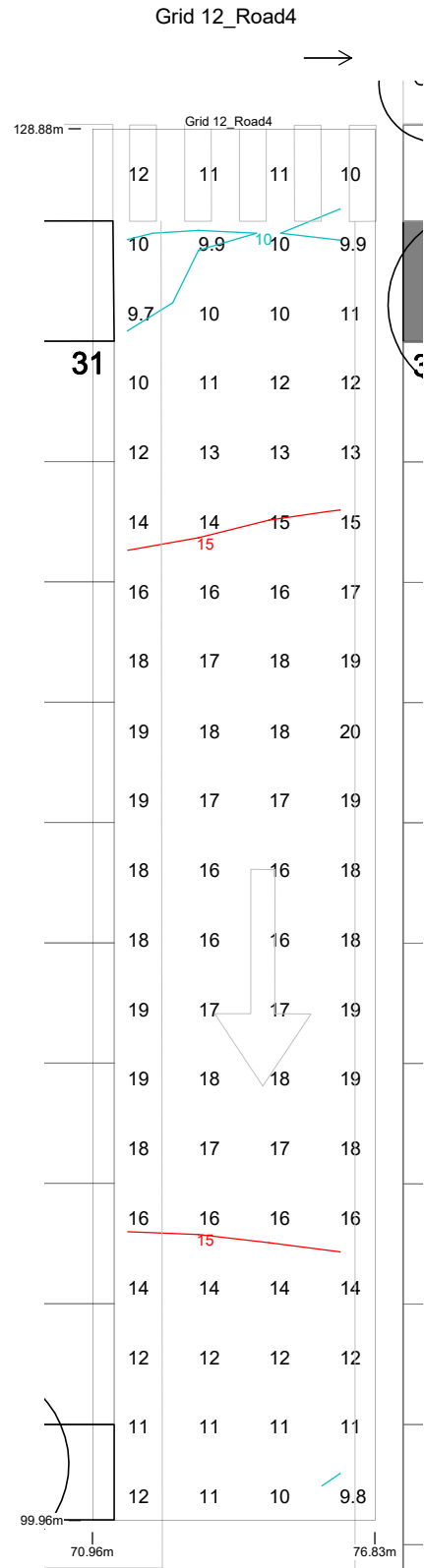
Grid 11_Road3



Results

Eav	14.65
Emin	7.38
Emax	21.07
Emin/Emax	0.35
Emin/Eav	0.50

Horizontal Illuminance (lux)

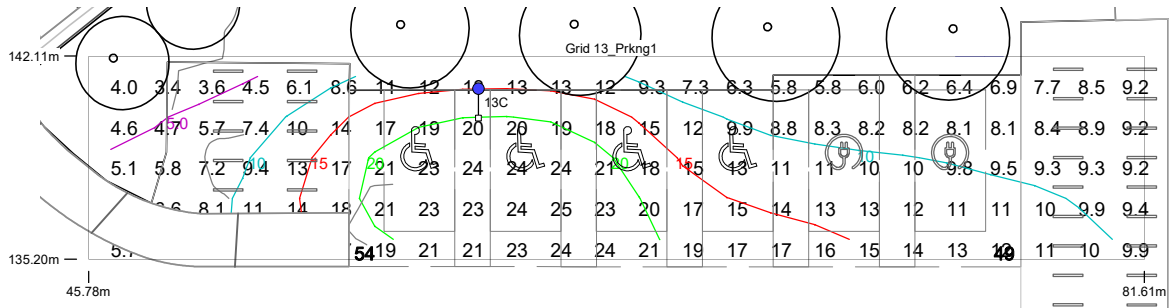


Results

Eav	14.70
Emin	9.73
Emax	19.70
Emin/Emax	0.49

Horizontal Illuminance (lux)

Grid 13_Prkg1

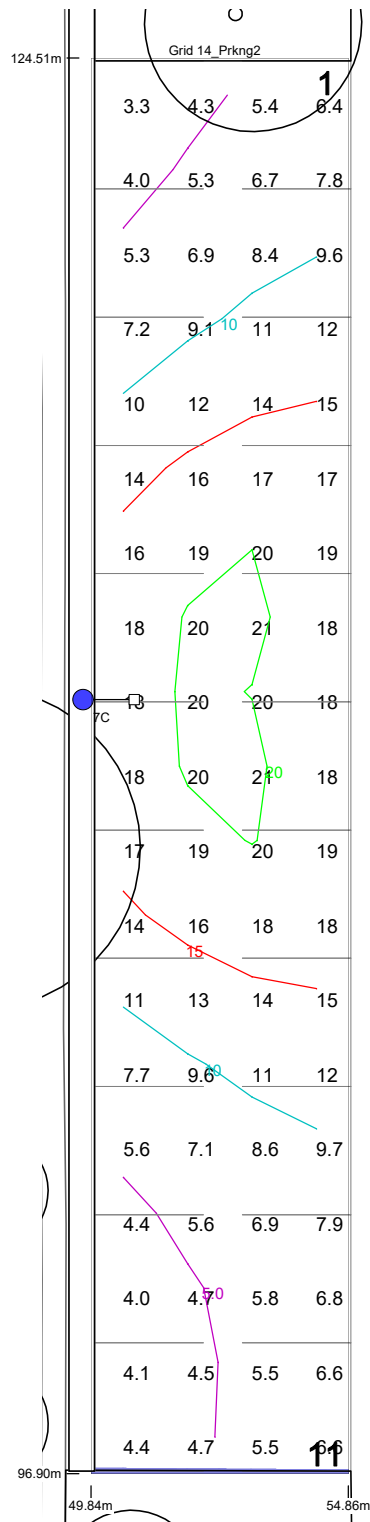


Results

Eav	12.62
Emin	3.42
Emax	24.97
Emin/Emax	0.14
Emin/Eav	0.27

Horizontal Illuminance (lux)

Grid 14_Prkg2

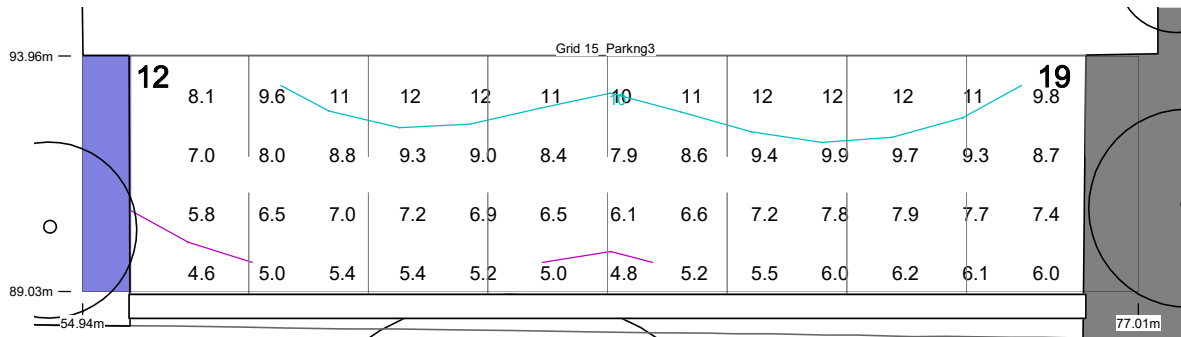


Results

Eav	11.62
Emin	3.27
Emax	20.61
Emin/Emax	0.16

Horizontal Illuminance (lux)

Grid 15_Parkng3

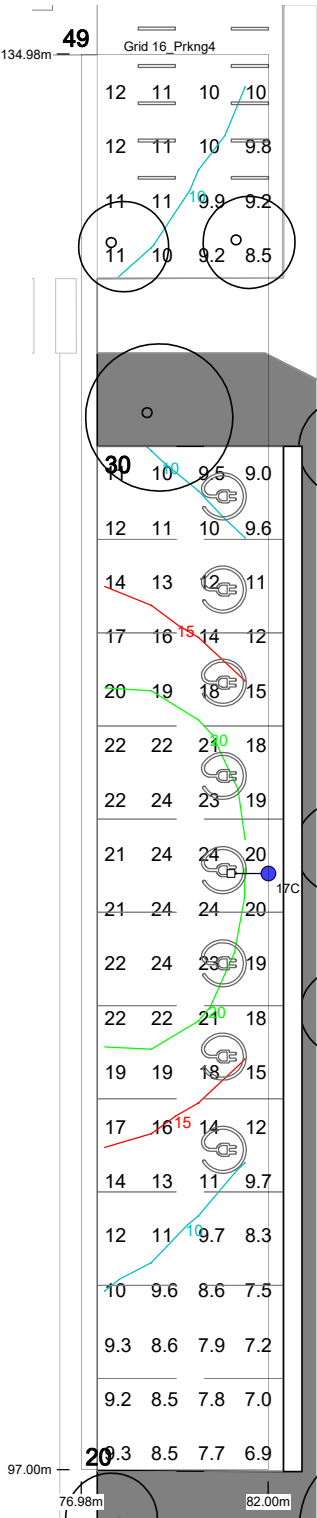


Results

Eav	7.97
Emin	4.58
Emax	12.46
Emin/Emax	0.37
Emin/Eav	0.57

Horizontal Illuminance (lux)

Grid 16_Prkg4

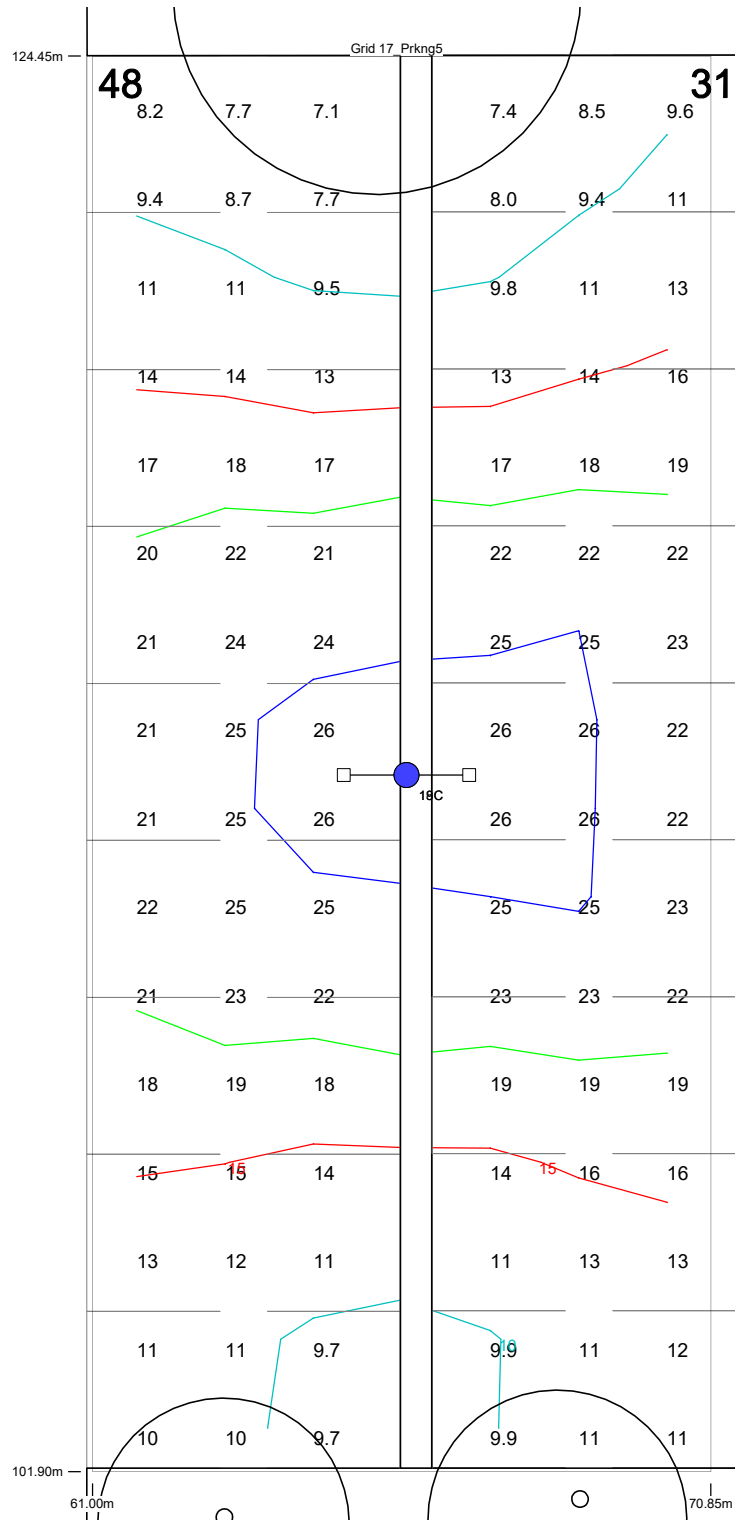


Results

Eav	13.56
Emin	6.94
Emax	23.94
Emin/Emax	0.29

Horizontal Illuminance (lux)

Grid 17_Prkng5

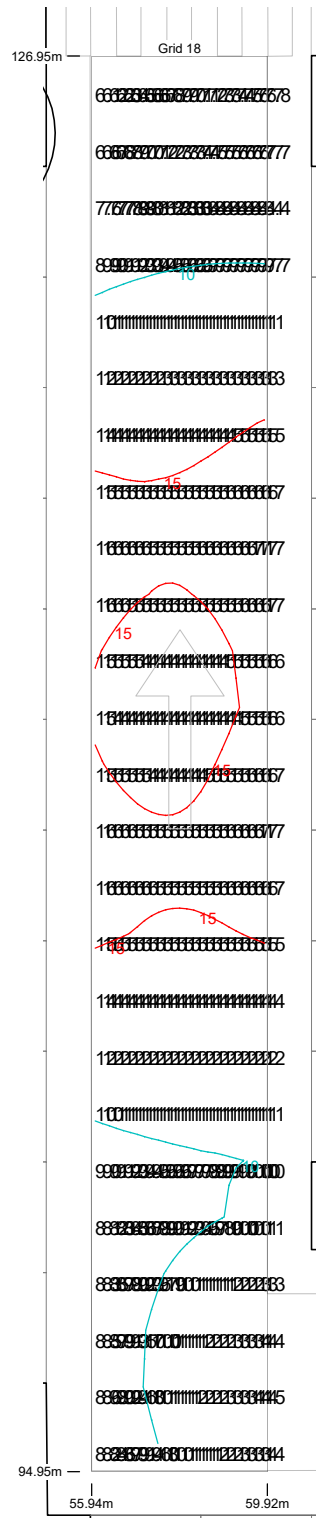


Results

Eav	16.64
Emin	6.71
Emax	26.04
Emin/Emax	0.26

Horizontal Illuminance (lux)

Grid 18



Results

Eav	12.26
Emin	6.09
Emax	17.31
Emin/Emax	0.35