

DATE: 21 June 2024
DESIGNER: Michael Lannon
PROJECT No: 3237
PROJECT NAME: Ballybin Road LRD

**LIGHTING
REALITY**

Lighting class Design to EN13201 / BS 5489

Grid 1 (Roadway & Footpath) - Lighting Class P4
Grid 2 (Ballybin Road & R125 Junction) - Lighting Class C2
Grid 3 (R125) - Lighting Class M4
Grid 4 (R125) - Lighting Class M4
Grid 5 (Ballybin Road) - Lighting Class M4
Grid 6 (Ballybin Road Site Entrance) - Lighting Class C3
Grid 7 (Cycleway & Footpath) - Lighting Class P6
Grid 8 (Footpath) - Lighting Class P6
Grid 9 (Ballybin Road) - Lighting Class M4

Note: All Lighting Columns are to be at the back of footpaths

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	702646.63	751568.52	167.69	364.44	1.50	1.50
2	Grid 2	702742.67	751611.02	40.18	32.51	1.49	1.48
3	Grid 3	702783.05	751610.40	113.86	53.43	1.50	1.48
4	Grid 4	702630.35	751632.90	115.86	28.53	1.49	1.43
5	Grid 5	702703.90	751555.54	61.05	61.60	1.49	1.47
6	Grid 6	702791.14	751712.67	20.52	18.32	1.47	1.41
7	Grid 7	702828.17	751627.51	49.61	154.91	1.46	1.49
8	Grid 8	702745.25	751694.54	39.91	26.89	1.48	1.49
9	Grid 9	702743.16	751648.62	39.93	179.15	1.29	1.49

Luminaires

Luminaire A Data



Supplier	C U Phosco
Type	P852K-12-F3-WW-CA0700-27W
Lamp(s)	730C WW
Lamp Flux (klm)	3.02
File Name	P852K-12-F3-WW-CA0700-27W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	693.4, 572.2, 102.0
No. in Project	14

Luminaire B Data



Supplier	C U Phosco
Type	P852K-12-P4-WW-CA0550-21W
Lamp(s)	730C WW
Lamp Flux (klm)	2.56
File Name	P852K-12-P4-WW-CA0550-21W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	730.4, 161.4, 0.8
No. in Project	7

Luminaire C Data



Supplier	C U Phosco
Type	P863-128-F2B-730-W3-725-92W
Lamp(s)	730SS
Lamp Flux (klm)	12.39
File Name	P863-128-F2B-730-W3-725-92W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	461.8, 61.8, 0.8
No. in Project	4

Luminaire D Data



Supplier	C U Phosco
Type	P863-128-F2B-730-W3-425-55W
Lamp(s)	730SS
Lamp Flux (klm)	7.54
File Name	P863-128-F2B-730-W3-425-55W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	461.8, 61.8, 0.8
No. in Project	14

Luminaires



Luminaire E Data

Supplier	C U Phosco
Type	P863-128-F9-730-W3-500-65W
Lamp(s)	730SS
Lamp Flux (klm)	9.09
File Name	P863-128-F9-730-W3-500-65W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	118.5, 23.2, 0.0
No. in Project	7



Luminaire F Data

Supplier	C U Phosco
Type	P852K-12-P4-WW-CA0200-9W
Lamp(s)	730C WW
Lamp Flux (klm)	1.03
File Name	P852K-12-P4-WW-CA0200-9W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	730.4, 161.4, 0.8
No. in Project	3



Luminaire G Data

Supplier	C U Phosco
Type	P852K-12-P4-WW-CA0650-25W
Lamp(s)	730C WW
Lamp Flux (klm)	2.95
File Name	P852K-12-P4-WW-CA0650-25W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	730.4, 161.4, 0.8
No. in Project	4



Luminaire H Data

Supplier	C U Phosco
Type	P852K-12-F3-WW-CA0550-21W
Lamp(s)	730C WW
Lamp Flux (klm)	2.46
File Name	P852K-12-F3-WW-CA0550-21W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	693.4, 572.2, 102.0
No. in Project	1

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
1	A	702781.43	751720.99	6.00	60.00	0.00	0.00	0.40	100%			
2	H	702760.21	751734.50	6.00	58.00	0.00	0.00	0.40	100%			
3	B	702738.07	751752.02	6.00	359.00	0.00	0.00	0.40	100%			
4	B	702738.10	751733.50	6.00	351.00	0.00	0.00	0.40	100%			
5	B	702738.06	751703.95	6.00	0.00	0.00	0.00	0.40	100%			
6	B	702738.02	751677.83	6.00	359.00	0.00	0.00	0.40	100%			
7	G	702725.34	751665.91	6.00	272.00	0.00	0.00	0.40	100%			
8	G	702703.29	751665.88	6.00	270.00	0.00	0.00	0.40	100%			
9	G	702690.58	751677.71	6.00	178.00	0.00	0.00	0.40	100%			
10	G	702690.64	751703.93	6.00	175.00	0.00	0.00	0.40	100%			
11	A	702690.67	751733.58	6.00	189.00	0.00	0.00	0.40	100%			
12	A	702681.74	751761.44	6.00	2.00	0.00	0.00	0.40	100%			
13	B	702708.31	751780.55	6.00	273.00	0.00	0.00	0.40	100%			
14	B	702734.82	751780.57	6.00	261.00	0.00	0.00	0.40	100%			
15	B	702748.21	751770.16	6.00	103.00	0.00	0.00	0.40	100%			
16	A	702681.78	751788.81	6.00	2.00	0.00	0.00	0.40	100%			
17	A	702681.76	751816.17	6.00	359.00	0.00	0.00	0.40	100%			
18	A	702681.78	751843.61	6.00	357.00	0.00	0.00	0.40	100%			
19	A	702708.26	751827.99	6.00	92.00	0.00	0.00	0.40	100%			
20	A	702734.81	751828.00	6.00	90.00	0.00	0.00	0.40	100%			
21	A	702759.60	751828.00	6.00	90.00	0.00	0.00	0.40	100%			
22	A	702784.75	751836.88	6.00	274.00	0.00	0.00	0.40	100%			
23	A	702765.71	751854.75	6.00	171.00	0.00	0.00	0.40	100%			
24	A	702768.27	751881.19	6.00	182.00	0.00	0.00	0.40	100%			
25	A	702786.51	751906.07	6.00	264.00	0.00	0.00	0.40	100%			
26	A	702758.32	751915.23	6.00	275.00	0.00	0.00	0.40	100%			
27	F	702768.63	751706.35	6.00	236.00	0.00	0.00	0.40	100%			
28	C	702758.76	751634.46	10.00	283.00	0.00	0.00	0.40	100%			
29	C	702773.99	751611.38	10.00	110.00	0.00	0.00	0.40	100%			
30	C	702785.43	751630.66	10.00	266.00	0.00	0.00	0.40	100%			
31	C	702746.06	751615.90	10.00	83.00	0.00	0.00	0.40	100%			
32	E	702769.08	751657.70	10.00	349.00	5.00	0.00	0.40	100%			
33	E	702780.23	751687.10	10.00	334.00	5.00	0.00	0.40	100%			
34	E	702794.70	751710.75	10.00	327.00	5.00	0.00	0.40	100%			
35	E	702807.76	751727.14	8.00	324.00	5.00	0.00	0.40	100%			
36	D	702802.79	751611.05	10.00	90.00	5.00	0.00	0.40	100%			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
37	D	702831.25	751615.46	10.00	102.00	5.00	0.00	0.40	100%			
38	D	702864.48	751620.99	10.00	108.00	5.00	0.00	0.40	100%			
39	E	702762.01	751588.91	10.00	152.00	5.00	0.00	0.40	100%			
40	E	702722.47	751638.97	10.00	261.00	5.00	0.00	0.40	100%			
41	D	702697.98	751622.78	10.00	83.00	5.00	0.00	0.40	100%			
42	E	702845.74	751638.72	10.00	291.00	0.00	0.00	0.40	100%			
43	D	702825.27	751747.37	8.00	316.00	5.00	0.00	0.40	100%			
44	D	702843.74	751765.52	8.00	313.00	5.00	0.00	0.40	100%			
45	D	702863.18	751781.14	8.00	309.00	5.00	0.00	0.40	100%			
46	F	702842.33	751684.72	6.00	175.00	0.00	0.00	0.40	80%			
47	F	702848.03	751722.08	6.00	202.00	0.00	0.00	0.40	80%			
48	D	702879.39	751643.75	10.00	281.00	5.00	0.00	0.40	100%			
49	D	702900.80	751627.20	10.00	99.00	5.00	0.00	0.40	100%			
50	D	702682.25	751645.66	10.00	250.00	5.00	0.00	0.40	100%			
51	D	702652.47	751639.01	10.00	68.00	5.00	0.00	0.40	100%			
52	D	702736.87	751582.40	10.00	312.00	5.00	0.00	0.40	100%			
53	D	702737.66	751557.92	10.00	127.00	5.00	0.00	0.40	100%			
54	D	702638.27	751659.52	10.00	250.00	5.00	0.00	0.40	100%			

Horizontal Illuminance (lux)

Grid 1

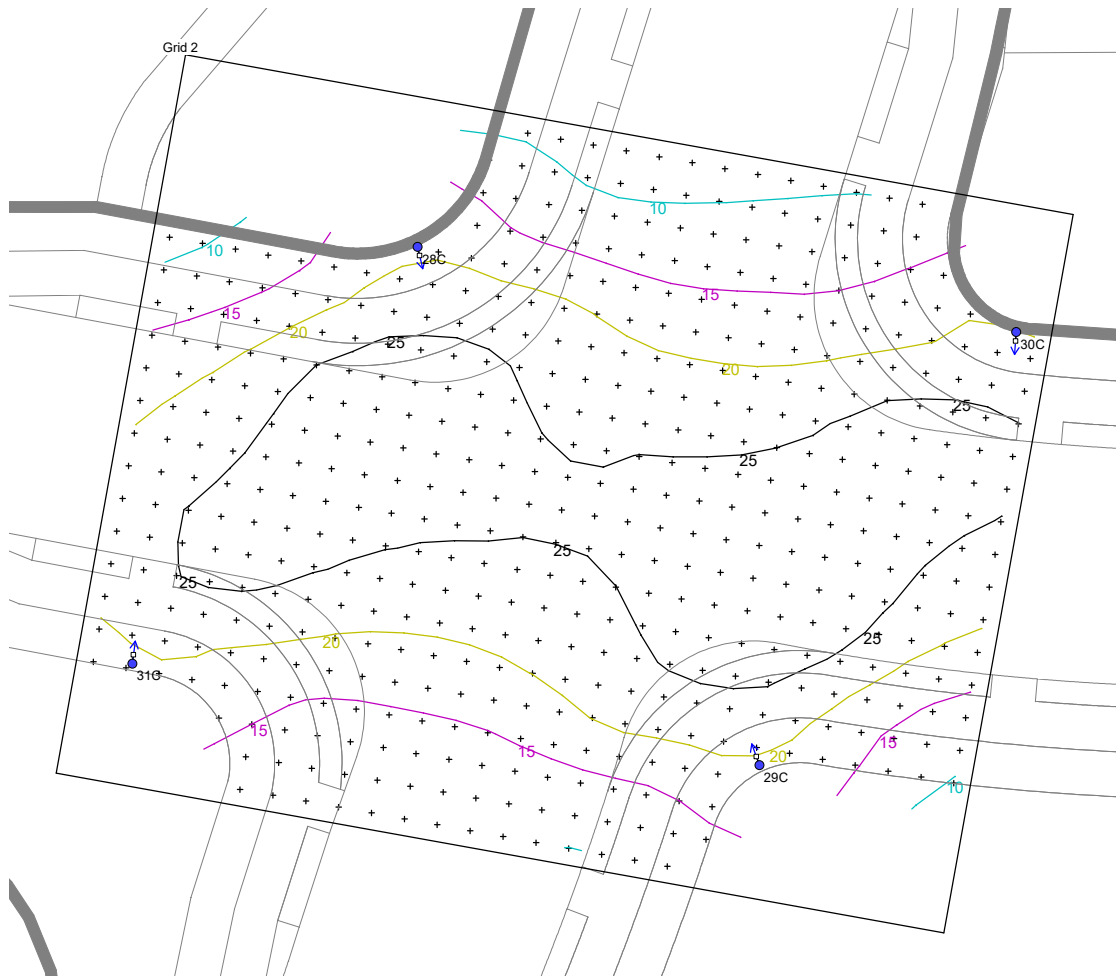


Results

Eav	5.32
Emin	1.14
Emax	18.73
Emin/Emax	0.06
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 2

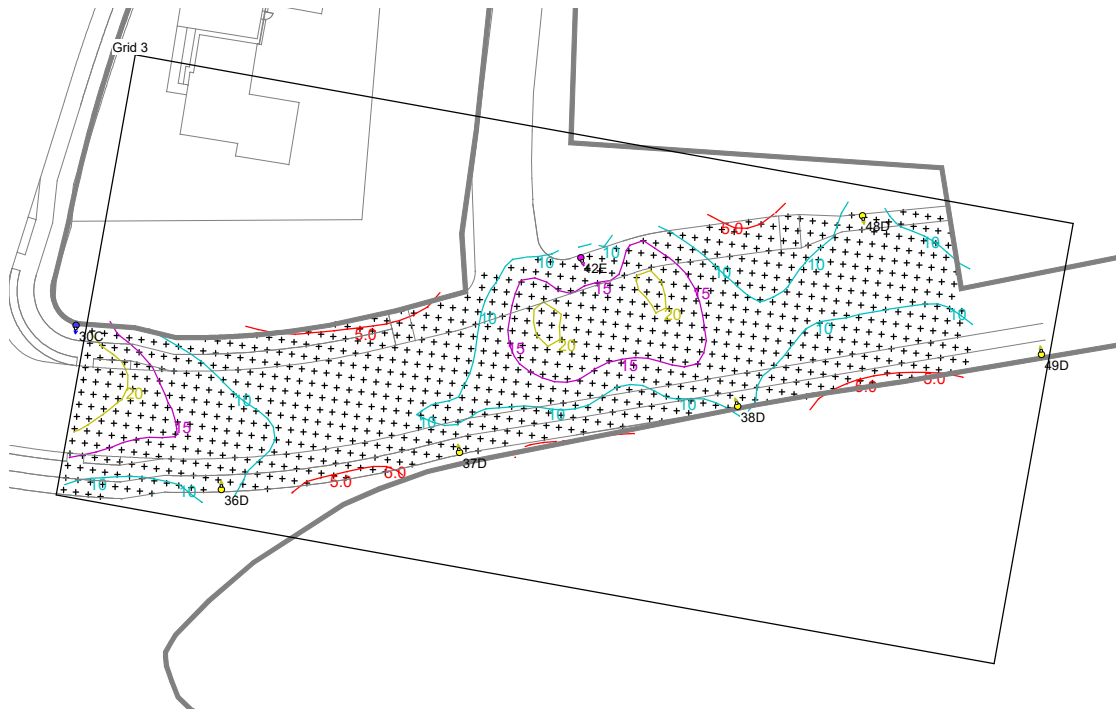


Results

Eav	20.24
Emin	8.42
E _{max}	28.31
E _{min} /E _{max}	0.30
E _{min} /E _{av}	0.42

Horizontal Illuminance (lux)

Grid 3

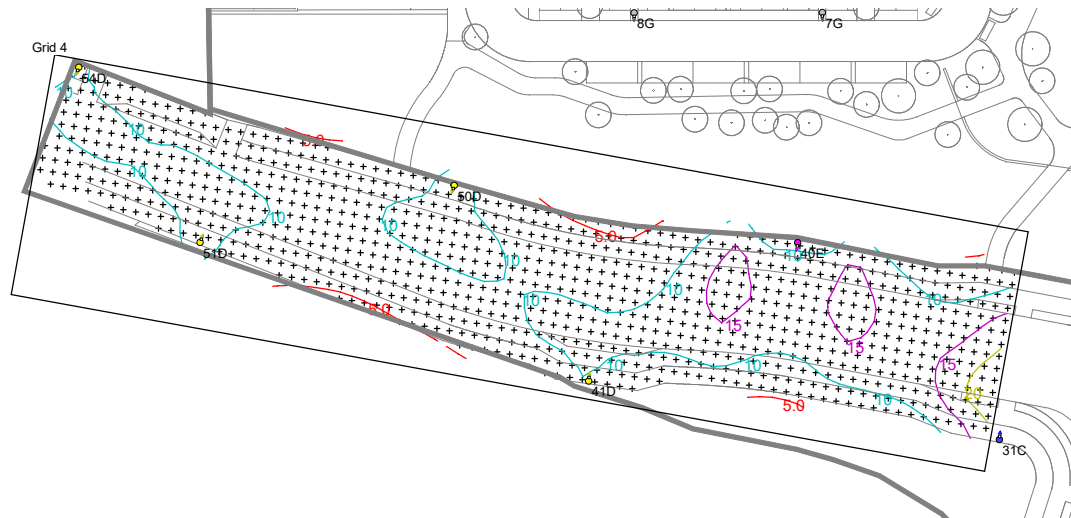


Results

Eav	11.06
Emin	4.45
Emax	25.02
Emin/Emax	0.18
Emin/Eav	0.40

Horizontal Illuminance (lux)

Grid 4

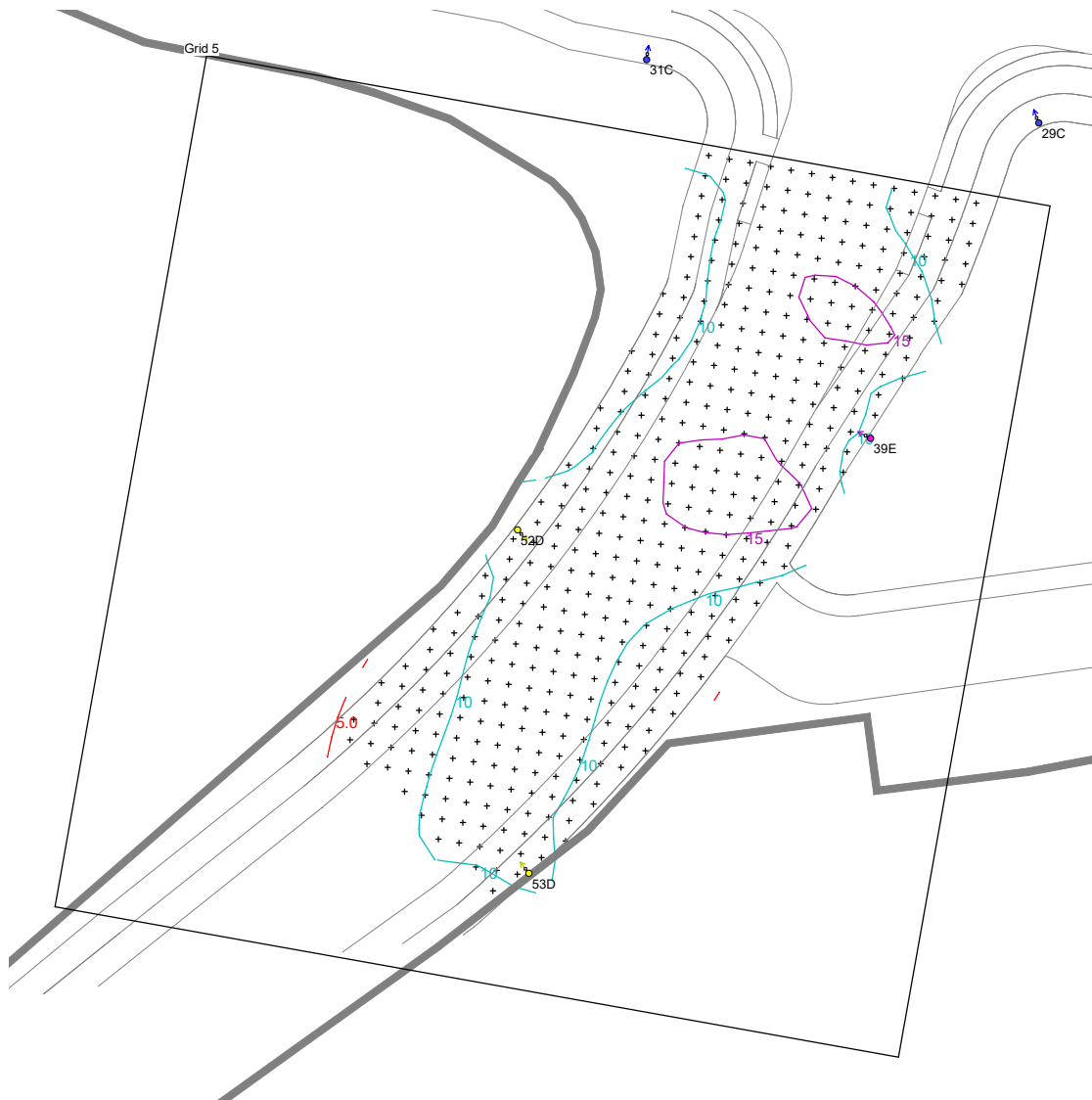


Results

Eav	10.08
Emin	4.22
Emax	22.91
Emin/Emax	0.18
Emin/Eav	0.42

Horizontal Illuminance (lux)

Grid 5

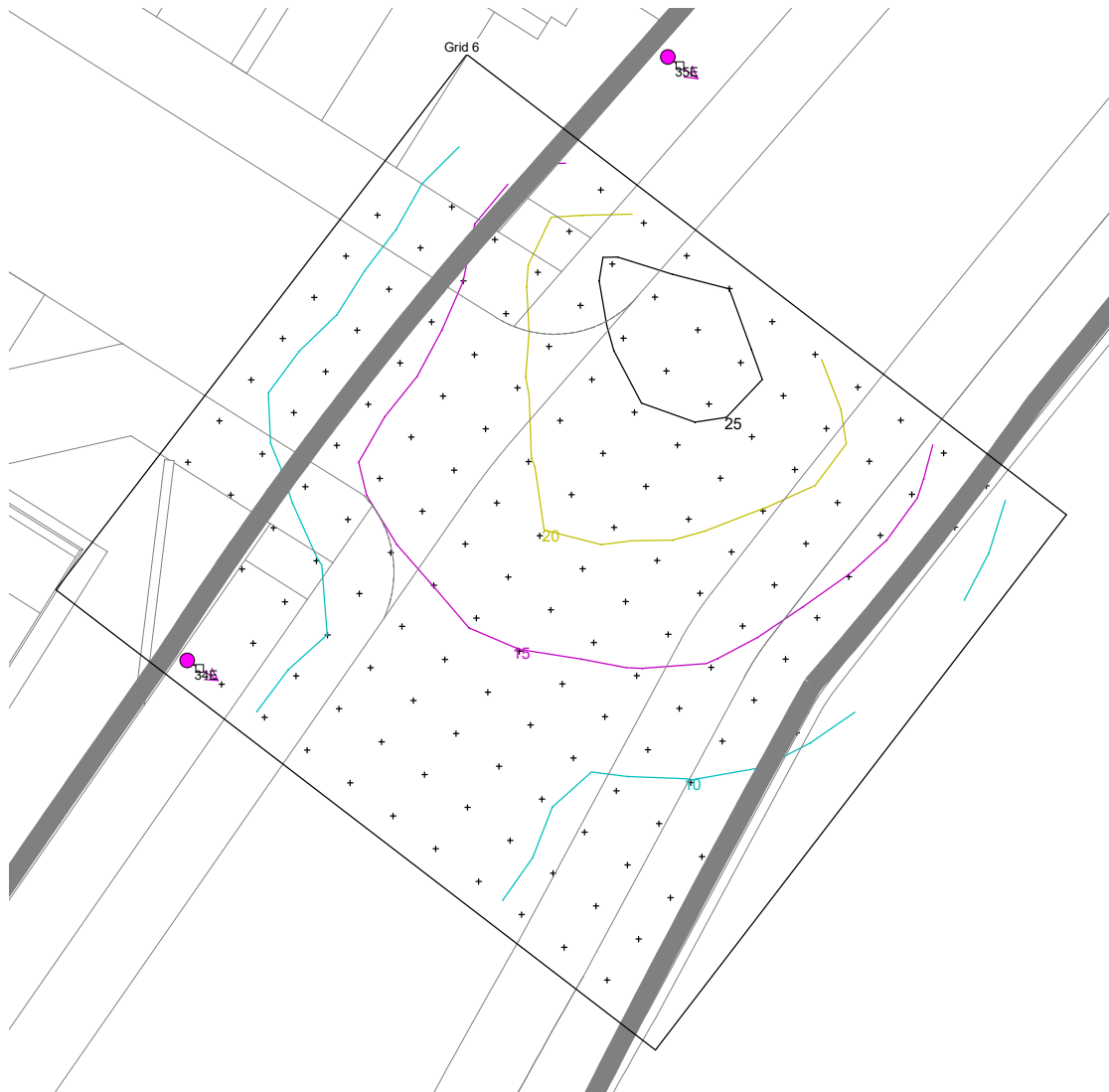


Results

Eav	11.41
Emin	5.71
Emax	18.82
Emin/Emax	0.30
Emin/Eav	0.50

Horizontal Illuminance (lux)

Grid 6

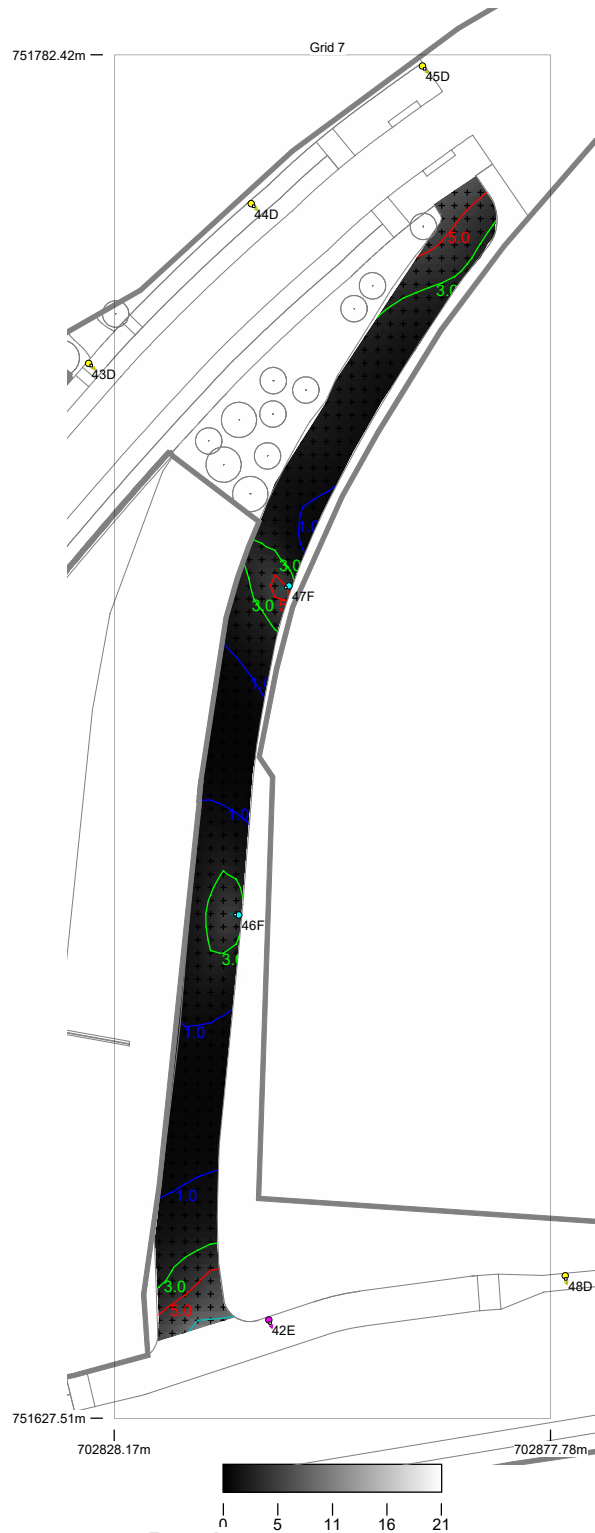


Results

Eav	15.01
Emin	6.92
Emax	28.11
Emin/Emax	0.25
Emin/Eav	0.46

Horizontal Illuminance (lux)

Grid 7

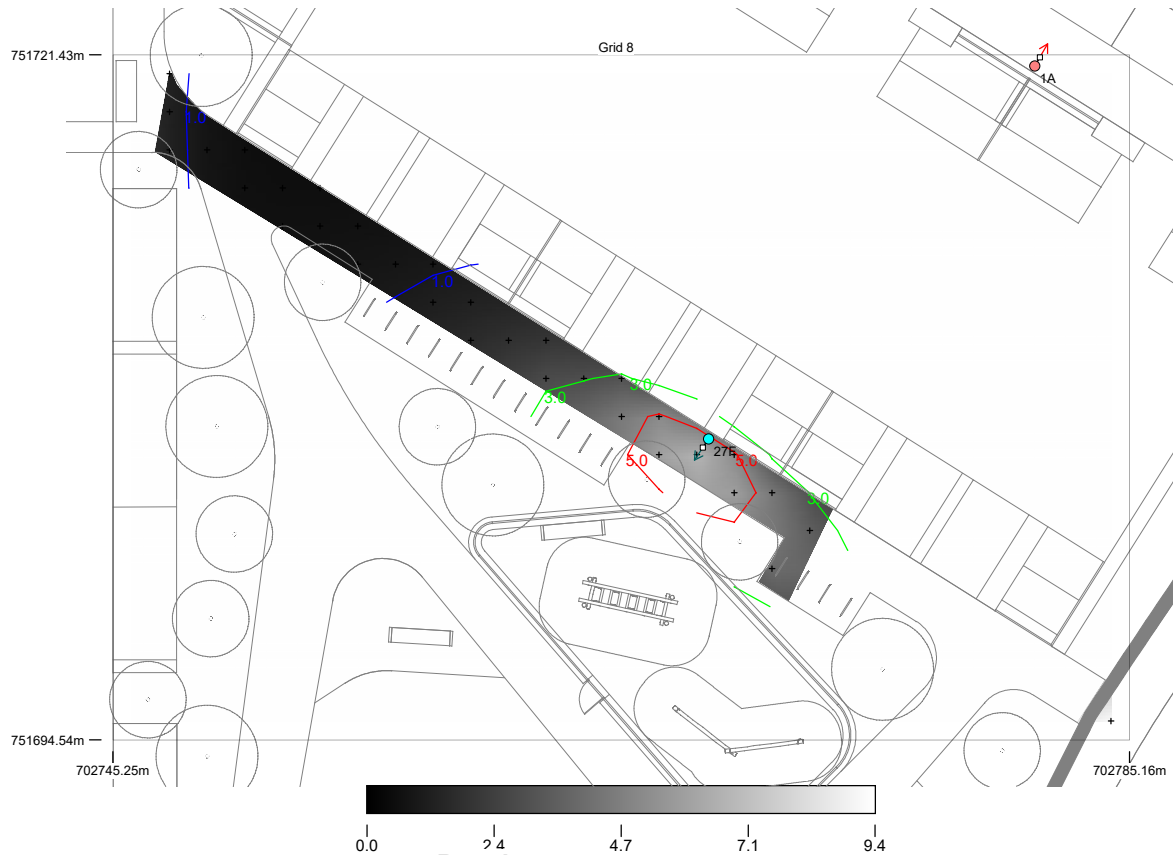


Results

Eav	2.26
Emin	0.54
Emax	10.42
Emin/Emax	0.05
Emin/Eav	0.24

Horizontal Illuminance (lux)

Grid 8



Results

Eav	2.59
Emin	0.55
Emax	9.44
Emin/Emax	0.06
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 9



Results

Eav	11.18
Emin	4.44
Emax	28.26
Emin/Emax	0.16
Emin/Eav	0.40