

DATE: 18 August 2022
DESIGNER: Leicestershire County Council
PROJECT No: SL22-042
PROJECT NAME: Hinckley Phase 7 revA

**LIGHTING
REALITY**

Designed to BS5489-1:2020
Grid 1 Road 22A P2 - Tie into phase 5 (P2) Main road off roundabout to school and access into development. Bus route.
Grid 2 Road 22B P3- Main access road through the development. Bus Route.
Grid 3 road 5 P3 - Main access road through the development. Bus Route. Ties into E-ON design (P4).
Grid 4 Road 25 P4 - Cul de sac with traffic calming features - flat top ramps.
Grid 5 Road 26 P5 - short Cul de sac, NO traffic calming features.
Grid 6 Road 27 P5 - short Cul de sac, NO traffic calming features.
Grid 7 Road 72 P5 - short Cul de sac, NO traffic calming features

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 Road 22A P2	440047.69	293375.13	2735.02	2019.18	10.94	8.08
2	Grid 2 Road 22B P3	440290.00	294605.00	33.00	264.00	1.50	1.50
3	Grid 3 Road 5 P3	440365.00	294700.00	153.00	33.00	1.50	1.50
4	Grid 4 Road 25 P4	440351.00	294587.00	33.00	120.00	1.50	1.50
5	Grid 5 Road 26 P5	440350.55	294820.37	68.04	33.17	1.62	1.51
6	Grid 6 Road 27 P5	440415.00	294783.00	87.00	48.00	1.50	1.50
7	Grid 7 Road 72 P5	440294.86	294723.63	69.00	39.00	1.50	1.50
8	Grid 8 - conflict P2	440405.00	294787.00	15.00	25.50	1.50	1.50
9	Grid 9 - conflict P2	440355.00	294712.00	25.13	32.43	1.48	1.35
10	Grid 10 - conflict P2	440416.00	294677.00	15.00	15.00	1.50	1.50
11	Grid 11	440427.85	294817.36	174.31	79.77	0.90	1.51
12	Grid 12	440328.00	294605.00	25.00	25.00	1.00	1.00

Luminares

Luminaire A Data



Supplier	Urbis Schreder
Type	AMPERA MINI 5141 Flat glass 16 OSLO N SQUARE GIANT @700mA NW
Lamp(s)	16 OSLO N SQUARE GIANT @700mA NW 740 230V
LampFlux(klm)/Colour	4.46 NW 4000K/70
File Name	AMPERA MINI 5141 16 OSLO N SQUARE GIANT 700mA NW 740 36.1W 404642 Flat...
Maintenance Factor	0.75
Imax70,80,90(cd/klm)	595.3, 66.0, 0.0
No. in Project	1

Luminaire C Data



Supplier	Urbis Schreder
Type	AMPERA MIDI 5141 Flat glass 48 OSLO N SQUARE GIANT @700mA NW
Lamp(s)	48 OSLO N SQUARE GIANT @700mA NW 740 230V
LampFlux(klm)/Colour	13.25 NW 4000K/70
File Name	AMPERA MIDI 5141 48 OSLO N SQUARE GIANT 700mA NW 740 100W 403272 Flat...
Maintenance Factor	0.82
Imax70,80,90(cd/klm)	544.5, 55.5, 0.0
No. in Project	1

Luminaire D Data



Supplier	ASD Lighting
Type	HWD2-#3K16 700-M1-CLO Gen 5
Lamp(s)	LED 3000K
LampFlux(klm)/Colour	3.62 3000/72
File Name	HWD2-#3K16 700-M1-CLO (34W).ldt
Maintenance Factor	0.84
Imax70,80,90(cd/klm)	646.8, 131.8, 1.0
No. in Project	13

Luminaire G Data



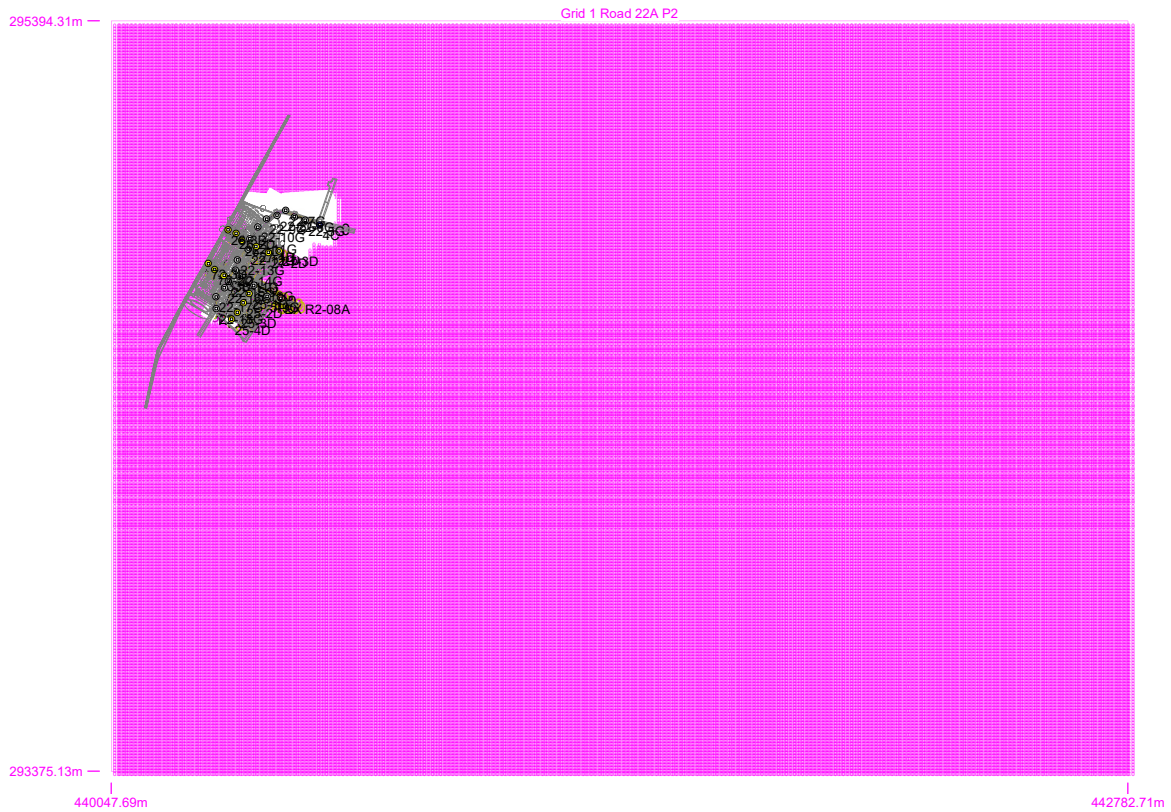
Supplier	TRT Lighting
Type	AS32_LED_59W_CLO_GR8_3000K_FG
Lamp(s)	42 0059 000 100
Lamp Flux (klm)	7.52
File Name	AS32_LED_59W_CLO_GR8_3000K_FG.ies
Maintenance Factor	0.92
Imax70,80,90(cd/klm)	790.5, 66.5, 0.0
No. in Project	17

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
4	C	440607.90	294845.21	8.00	77.00	0.00	0.00	0.40	100%			
22-5	G	440568.97	294857.58	8.00	75.00	0.00	0.00	0.50	80%			
22-6	G	440540.18	294866.81	8.00	72.00	0.00	0.00	0.50	80%			
22-7	G	440517.09	294885.00	8.00	261.00	0.00	0.00	0.50	80%			
22-8	G	440493.96	294871.02	8.00	117.00	0.00	0.00	0.50	80%			
22-9	G	440465.46	294861.11	8.00	314.00	0.00	0.00	0.50	80%			
22-10	G	440441.72	294839.56	8.00	315.00	0.00	0.00	0.50	80%			
22-11	G	440420.29	294807.97	8.00	329.00	0.00	0.00	0.50	60%			
22-12	G	440416.34	294780.02	8.00	145.00	0.00	0.00	0.50	60%			
22-13	G	440387.06	294751.46	8.00	327.00	0.00	0.00	0.50	60%			
22-14	G	440381.50	294723.62	8.00	152.00	0.00	0.00	0.50	70%			
22-15	G	440363.07	294693.85	8.00	157.00	0.00	0.00	0.50	60%			
22-16	G	440352.29	294676.44	8.00	146.00	0.00	0.00	0.50	60%			
22-17	G	440329.17	294651.92	8.00	343.00	0.00	0.00	0.50	60%			
22-18	G	440330.18	294620.38	8.00	158.00	0.00	0.00	0.50	60%			
EX R2-08	A	440504.48	294648.18	8.00	251.00	0.00	0.00	0.40	80%			
5-9	G	440467.08	294652.83	8.00	65.00	0.00	0.00	0.50	85%			
5-10	G	440431.26	294682.83	8.00	234.00	0.00	0.00	0.50	85%			
5-11	G	440392.01	294707.39	8.00	235.00	0.00	0.00	0.50	85%			
25-1	D	440418.46	294660.77	6.00	149.00	0.00	0.00	0.40	70%			
25-2	D	440402.97	294635.86	6.00	149.00	0.00	0.00	0.40	70%			
25-3	D	440387.05	294609.65	6.00	146.00	0.00	0.00	0.40	70%			
25-4	D	440371.43	294591.96	6.00	56.00	0.00	0.00	0.40	70%			
26-1	D	440398.76	294803.99	6.00	59.00	0.00	0.00	0.40	40%			
26-2	D	440383.72	294822.86	6.00	241.00	0.00	0.00	0.40	40%			
26-3	D	440361.56	294832.16	6.00	331.00	0.00	0.00	0.40	40%			
27-1	D	440437.39	294787.58	6.00	241.00	0.00	0.00	0.40	55%			
27-2	D	440470.38	294771.42	6.00	89.00	0.00	0.00	0.40	55%			
27-3	D	440499.43	294775.48	6.00	183.00	0.00	0.00	0.40	55%			
72-2	D	440325.69	294725.40	6.00	60.00	0.00	0.00	0.40	50%			
72-3	D	440308.74	294741.41	6.00	323.00	0.00	0.00	0.40	50%			
33	D	440351.14	294709.36	6.00	65.00	0.00	0.00	0.40	50%			

Horizontal Illuminance (lux)

Grid 1 Road 22A P2

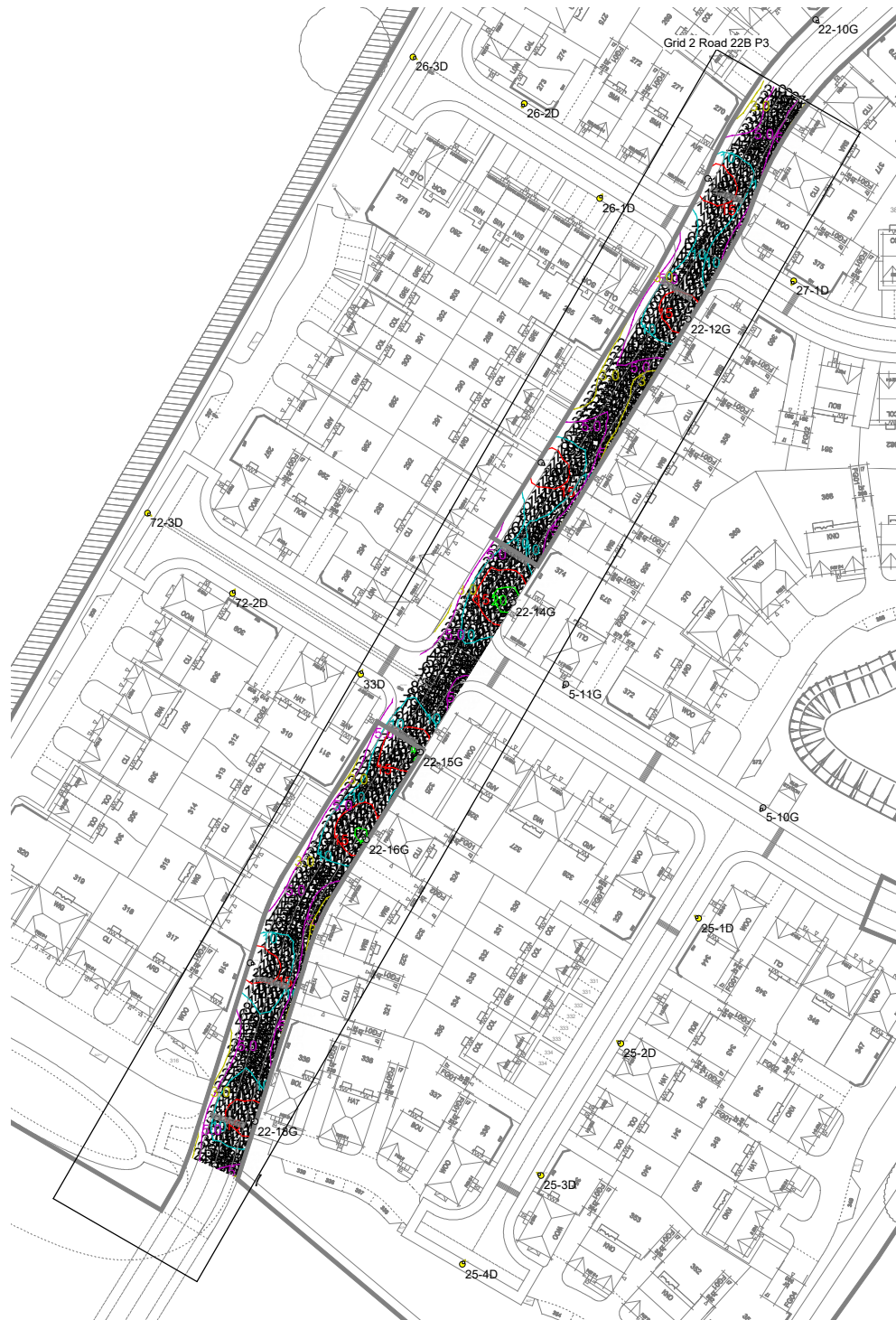


Results

Eav	0.01
Emin	0.00
Emax	23.90
Emin/Emax	0.00
Emin/Eav	0.00

Horizontal Illuminance (lux)

Grid 2 Road 22B P3



Results

Eav	9.49
Emin	1.88
Emax	22.38
Emin/Emax	0.08
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 3 Road 5 P3



Results

Eav	8.85
Emin	1.76
Emax	26.52
Emin/Emax	0.07
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 4 Road 25 P4



Results

Eav	6.21
Emin	2.18
E _{max}	23.40
Emin/E _{max}	0.09
Emin/Eav	0.35

Horizontal Illuminance (lux)

Grid 5 Road 26 P5



Results

Eav	3.97
Emin	0.78
E _{max}	13.44
Emin/E _{max}	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 6 Road 27 P5

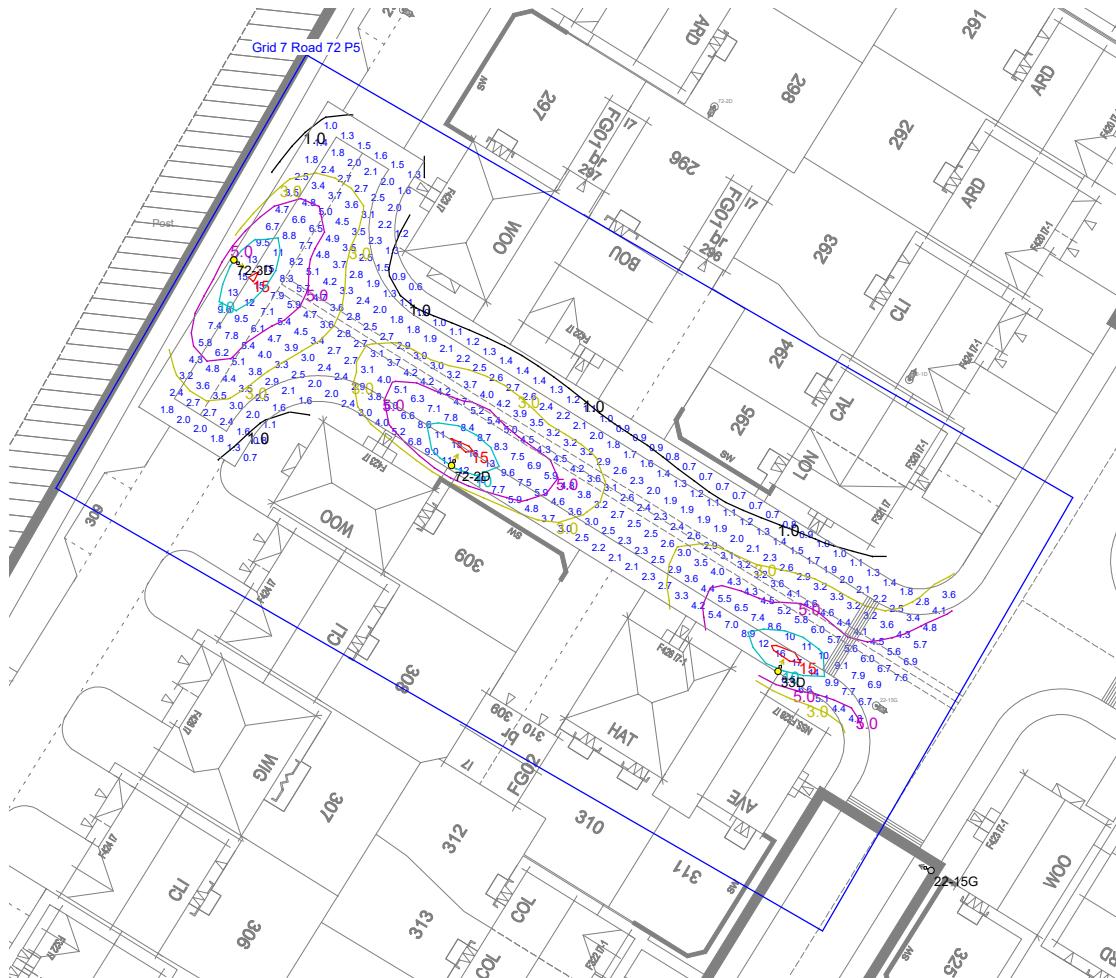


Results

Eav	4.28
Emin	0.89
Emax	18.20
Emin/Emax	0.05
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 7 Road 72 P5



Results

Eav	4.12
Emin	0.60
Emax	16.74
Emin/Emax	0.04
Emin/Eav	0.15

Horizontal Illuminance (lux)

Grid 8 - conflict P2

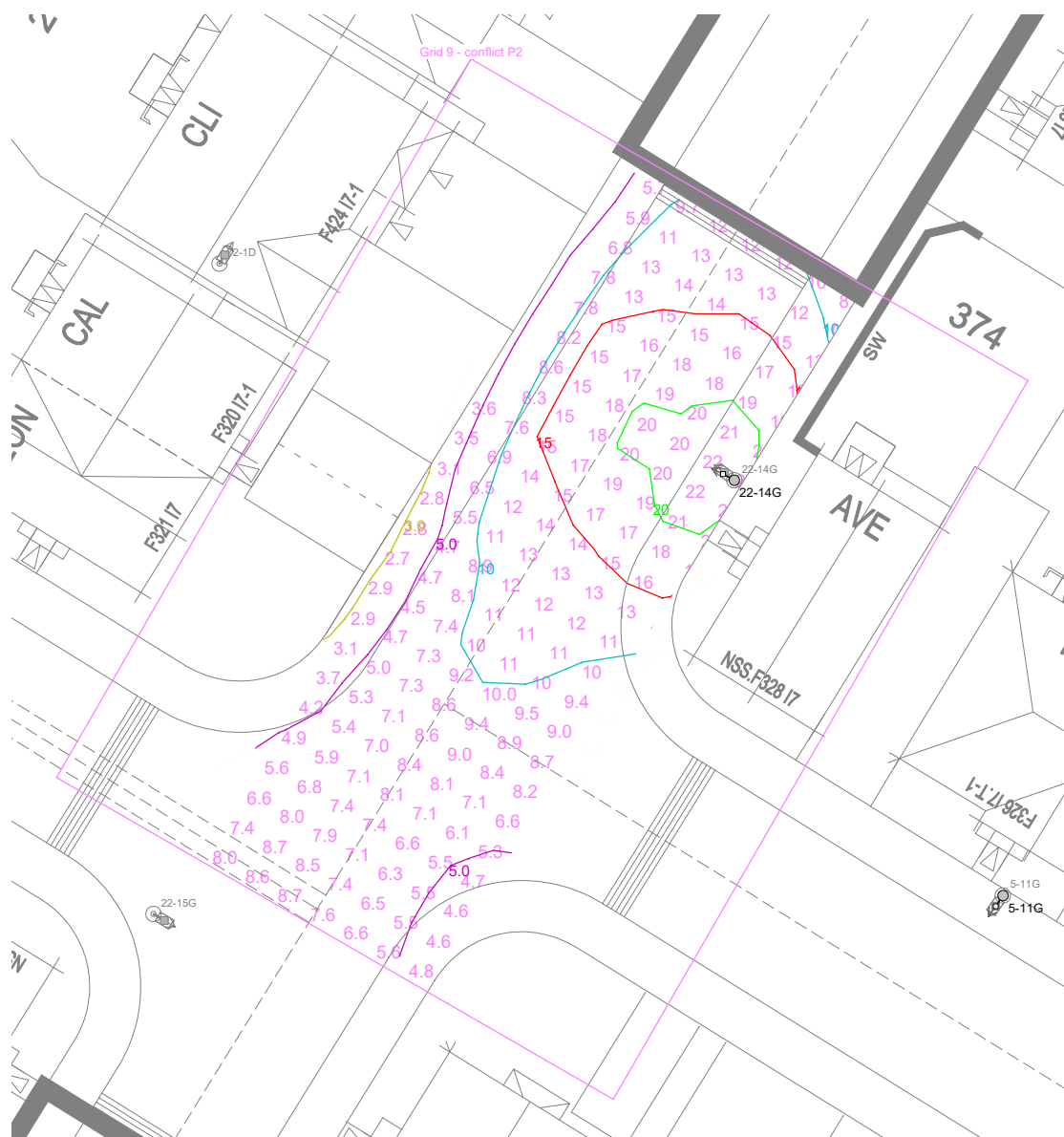


Results

Eav	10.84
Emin	3.70
Emax	18.63
Emin/Emax	0.20
Emin/Eav	0.34

Horizontal Illuminance (lux)

Grid 9 - conflict P2

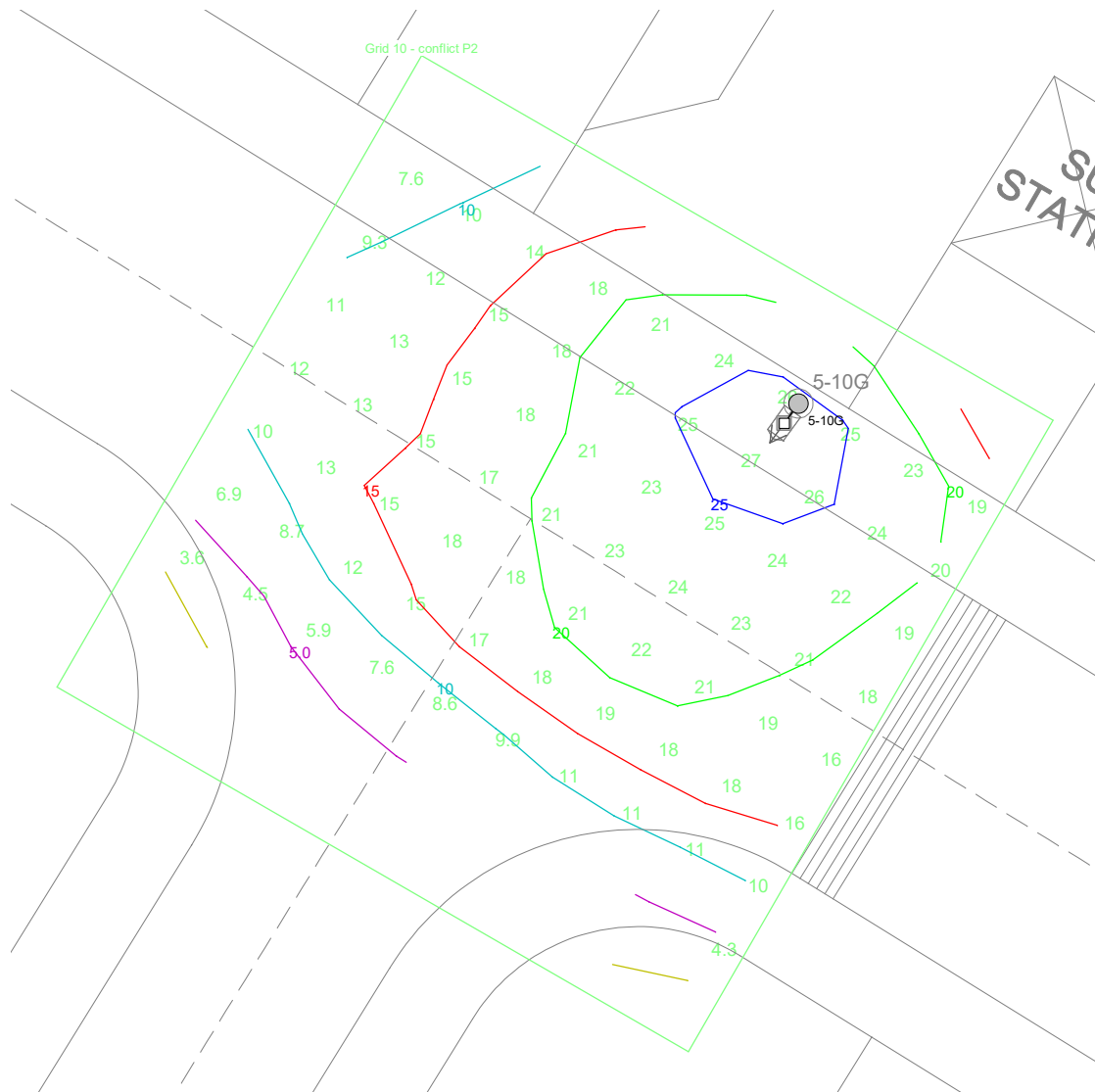


Results

Eav	10.72
Emin	2.66
Emax	22.45
Emin/Emax	0.12
Emin/Eav	0.25

Horizontal Illuminance (lux)

Grid 10 - conflict P2

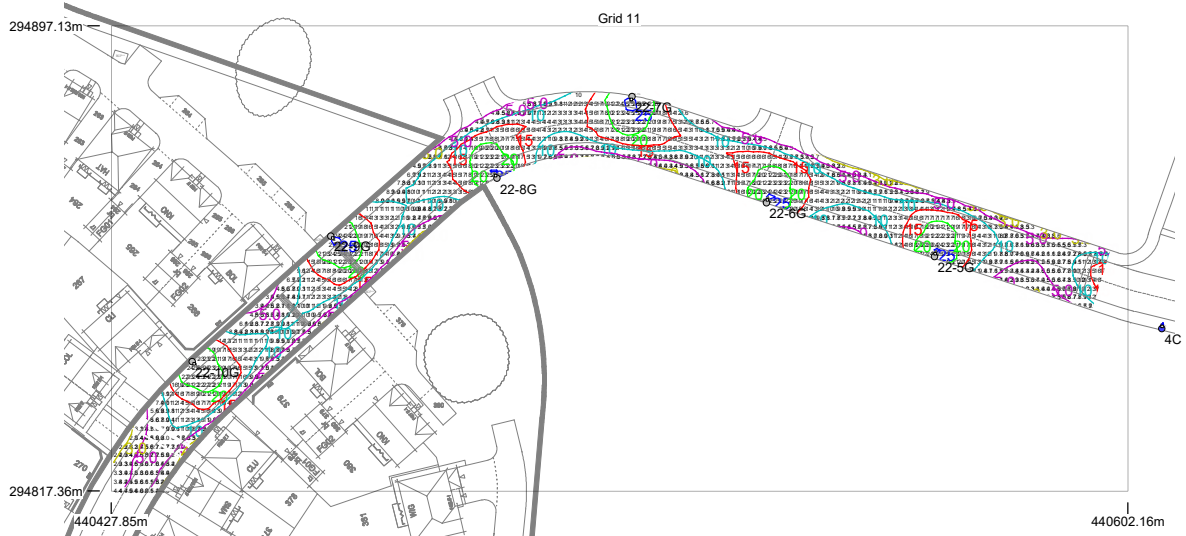


Results

Eav	16.56
Emin	3.56
Emax	26.66
Emin/Emax	0.13
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 11

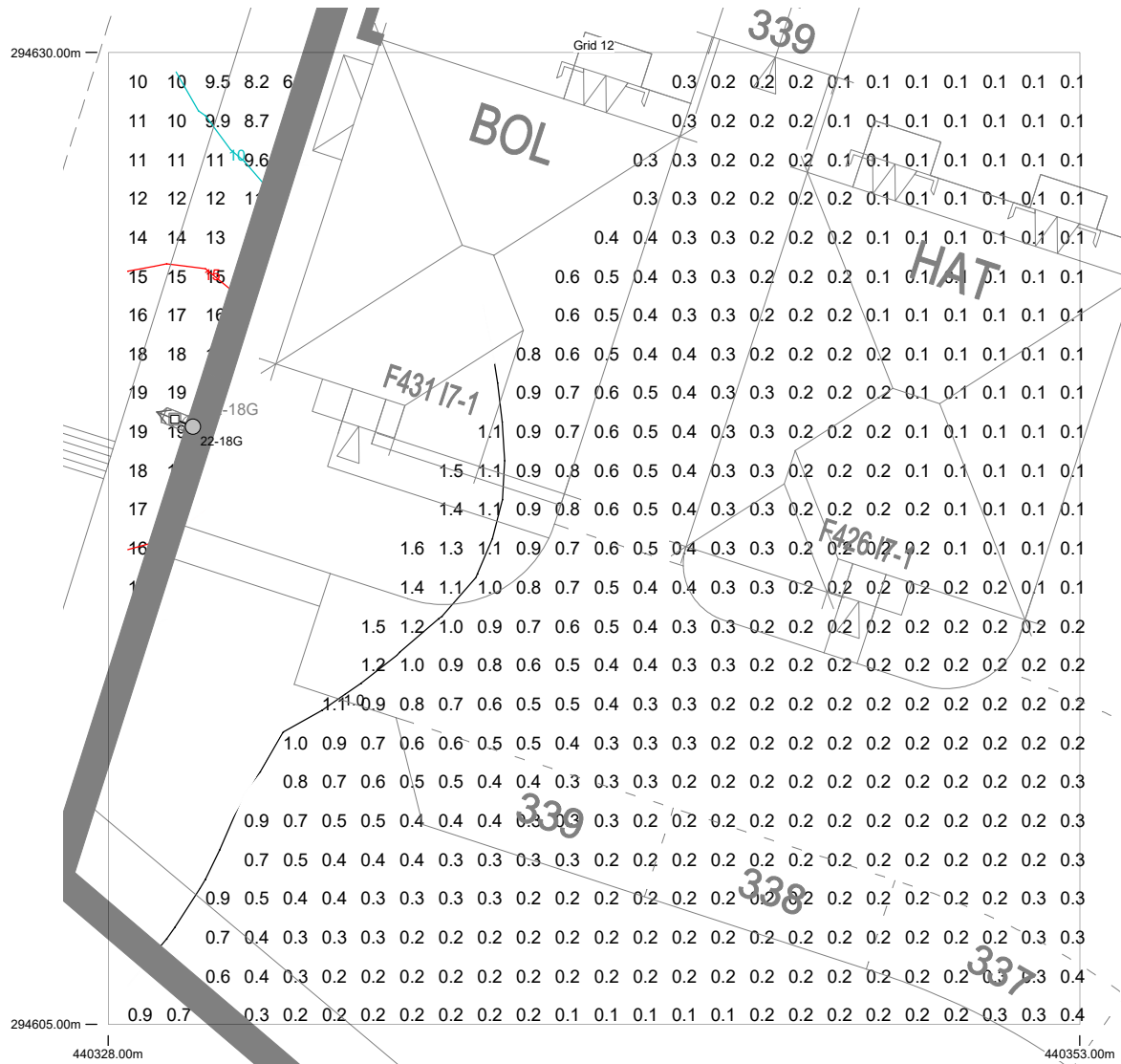


Results

Eav	11.68
Emin	2.21
Emax	25.42
Emin/Emax	0.09
Emin/Eav	0.19

Horizontal Illuminance (lux)

Grid 12



Results

Eav	1.54
Emin	0.06
Emax	18.73
Emin/Emax	0.00
Emin/Eav	0.04