

DATE: 10 December 2023
DESIGNER: Lorraine Calcott IEng FILP MSLL IALD
PROJECT No: 208-01-NAD-LO-C
PROJECT NAME: Scott's Yard, 59 Nine Mile Ride



Wall lights around the perimeter of each property are chosen for their controllability, the ease of dimming, the distribution of light (all downward) and the minimalist style. On key boundaries the lights of plot one are dimmed to only 5% output to keep the hedgerow as protected as possible whilst still lighting to a useable levels for human activities and safety.

Lights for the front doors have some forward throw to aid with facial recognition and safety. Lights are located under the porch area so upward light is not a concern.

Pillar lights to plot four are directed downward and provide wayfinding for entry and exit to the property. Their sideways through is minimal and doesn't provide any light above their mounting height of 0.6m

On site non adoptable lighting

PREPARED BY: it does Lighting Ltd
The Cube
13 Stone Hill
Two Mile Ash
Milton Keynes
Bucks
MK8 8DN

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 - overview	478318.71	164617.86	201.63	262.77	1.49	1.49
2	Grid 2 - entrance tree	478447.50	164636.70	12.29	6.00	0.20	0.20
3	Grid 3 - second big tree	478442.94	164697.23	19.75	6.00	0.20	0.20
4	Grid 4 - third big tree	478435.18	164739.30	17.93	6.00	0.20	0.20
5	Grid 5 - northern tree lin...	478432.91	164772.37	44.37	6.00	0.20	0.20
6	Grid 6 - top big tree	478438.42	164778.91	12.84	6.00	0.20	0.20
7	Grid 7 - No57 boundary	478422.75	164639.03	44.83	6.00	0.20	0.20
8	Grid 8 - Plot one garden	478421.22	164635.34	20.49	48.53	0.50	0.50
9	Grid 9 - plot two garden	478386.05	164680.32	48.85	27.30	0.50	0.50
10	Grid 10 - plot three garde...	478381.36	164707.20	50.98	26.39	0.50	0.50
11	Grid 11 - Plot 4 garden	478377.29	164733.68	61.13	38.83	0.50	0.50
12	Grid 12 - tree line plot t...	478401.89	164709.66	26.47	6.00	0.20	0.20
13	Grid 13 - plot three tree ...	478402.37	164736.95	26.02	6.00	0.20	0.20
14	Grid 14 - Plot four tree l...	478395.06	164775.37	38.45	6.00	0.20	0.20

Luminaires

Luminaire A Data

Supplier	
Type	8408-60-_-_-B2-W
Lamp(s)	LED 4,5W
Lamp Flux (klm)	0.34
File Name	8408-60-_-_-B2-W.IES
Maintenance Factor	0.79
Lum. Int. Class	undefined
No. in Project	3

Luminaire B Data

Supplier	
Type	22203K3
Lamp(s)	9 lm,2 W
Lamp Flux (klm)	0.01
File Name	BE_22203K3.IES
Maintenance Factor	0.82
Lum. Int. Class	None
No. in Project	4

Luminaire C Data

Supplier	
Type	SA42+X799.01_H38A
Lamp(s)	LED 2700K CR180
Lamp Flux (klm)	0.75
File Name	SA42-01_X799-01_H38A.IES
Maintenance Factor	0.80
Lum. Int. Class	G5
No. in Project	29

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
2	C	478424.16	164662.88	3.00	98.00	0.00	0.00	0.00	25%			
3	C	478428.26	164664.15	3.00	98.00	0.00	0.00	0.00	25%			
4	C	478436.70	164663.74	2.80	98.00	0.00	0.00	0.00	25%			
5	C	478432.03	164663.67	3.00	98.00	0.00	0.00	0.00	25%			
6	C	478423.18	164654.11	3.00	189.00	0.00	0.00	0.00	5%			
7	C	478422.34	164659.58	3.00	190.00	0.00	0.00	0.00	5%			
8	A	478431.17	164654.01	2.20	279.00	0.00	0.00	0.00	100%			
9	C	478411.88	164703.70	3.00	189.00	0.00	0.00	0.00	25%			
10	C	478412.48	164699.46	3.00	189.00	0.00	0.00	0.00	25%			
11	C	478415.39	164692.02	3.00	189.00	0.00	0.00	0.00	25%			
12	C	478419.40	164690.09	3.00	282.00	0.00	0.00	0.00	25%			
13	C	478422.57	164692.72	3.00	9.00	0.00	0.00	0.00	25%			
14	C	478416.93	164706.95	3.00	99.00	0.00	0.00	0.00	25%			
15	A	478423.61	164701.42	2.20	8.00	0.00	0.00	0.00	100%			
16	C	478424.27	164695.96	2.20	8.00	0.00	0.00	0.00	75%			
17	C	478417.41	164718.31	3.00	281.00	0.00	0.00	0.00	25%			
18	C	478411.59	164719.55	3.00	189.00	0.00	0.00	0.00	25%			
19	C	478410.93	164723.77	3.00	189.00	0.00	0.00	0.00	25%			
20	C	478411.64	164731.29	3.00	190.00	0.00	0.00	0.00	25%			
21	C	478414.59	164734.79	3.00	101.00	0.00	0.00	0.00	10%			
22	C	478418.25	164733.52	3.00	5.00	0.00	0.00	0.00	25%			
23	C	478421.09	164730.63	2.20	6.00	0.00	0.00	0.00	75%			
24	A	478422.00	164725.65	2.20	10.00	0.00	0.00	0.00	100%			
25	C	478417.37	164757.28	3.50	8.00	0.00	0.00	0.00	25%			
26	C	478417.81	164765.84	3.00	8.00	0.00	0.00	0.00	25%			
27	C	478419.53	164748.82	3.00	8.00	0.00	0.00	0.00	25%			
28	C	478406.71	164757.04	3.00	281.00	0.00	0.00	0.00	25%			
29	C	478403.77	164761.04	3.00	190.00	0.00	0.00	0.00	10%			
30	C	478407.86	164749.98	3.00	192.00	0.00	0.00	0.00	25%			
31	C	478415.09	164767.01	3.00	101.00	0.00	0.00	0.00	10%			
32	C	478406.46	164765.61	3.00	99.00	0.00	0.00	0.00	10%			
33	C	478413.76	164746.46	3.00	280.00	0.00	0.00	0.00	10%			
34	B	478429.81	164741.10	0.60	281.00	0.00	0.00	0.00	100%			
35	B	478434.31	164741.73	0.60	281.00	0.00	0.00	0.00	100%			
36	B	478429.79	164741.73	0.60	98.00	0.00	0.00	0.00	100%			
37	B	478434.25	164742.32	0.60	99.00	0.00	0.00	0.00	100%			

Horizontal Illuminance (lux)

Grid 1 - overview

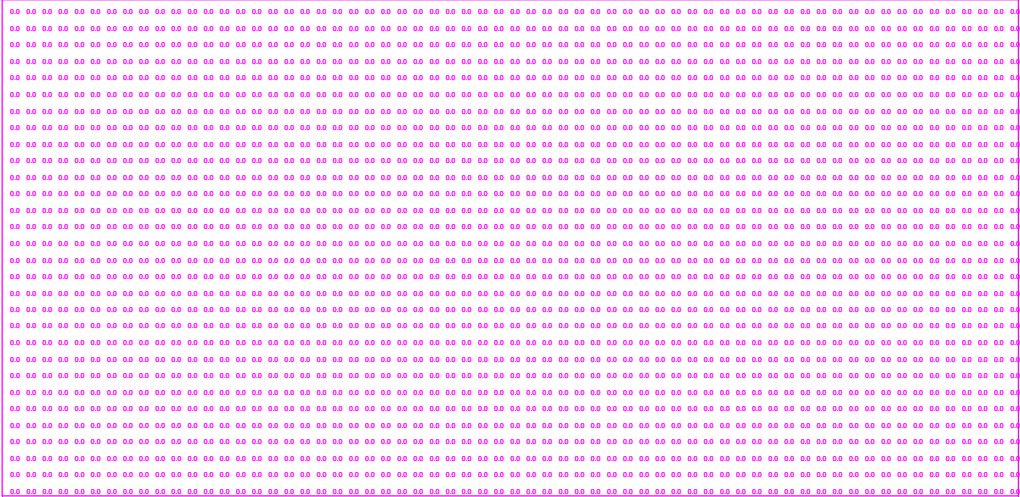


Results

Eav	0.17
Emin	0.00
Emax	7.07
Emin/Emax	0.00
Emin/Eav	0.01

Illuminance (lux)

Grid 2 - entrance tree



Results

Eav	0.00
Emin	0.00
Emax	0.03
Emin/Emax	0.00
Emin/Eav	0.00

Illuminance (lux)

Grid 3 - second big tree

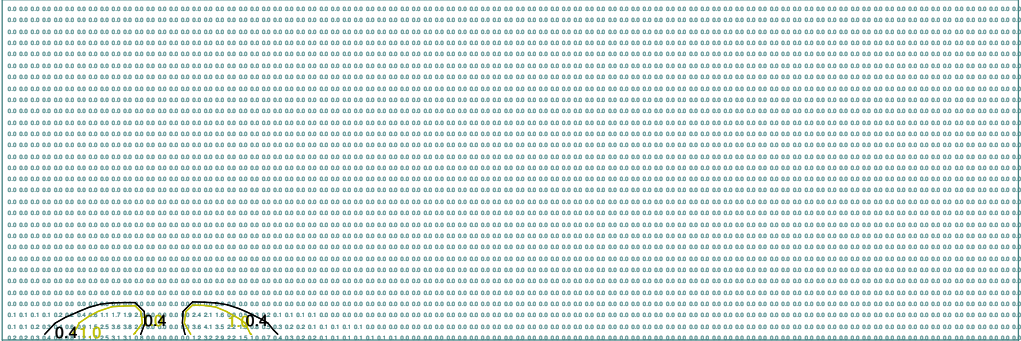


Results

Eav	0.01
Emin	0.00
Emax	0.03
Emin/Emax	0.00
Emin/Eav	0.00

Illuminance (lux)

Grid 4 - third big tree

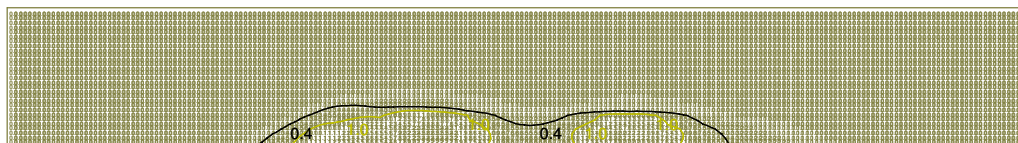


Results

Eav	0.03
Emin	0.00
Emax	4.12
Emin/Emax	0.00
Emin/Eav	0.00

Illuminance (lux)

Grid 5 - northern tree line

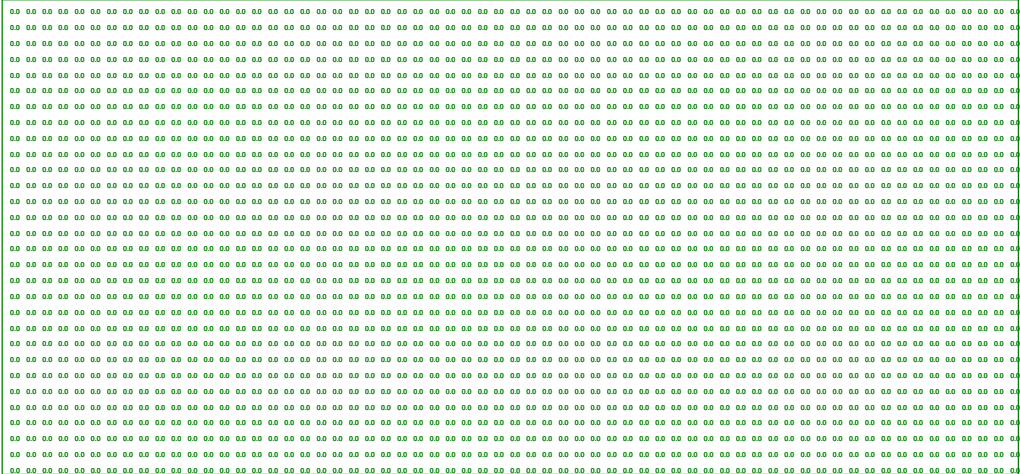


Results

Eav	0.14
Emin	0.00
E _{max}	2.59
Emin/E _{max}	0.00
Emin/Eav	0.00

Illuminance (lux)

Grid 6 - top big tree

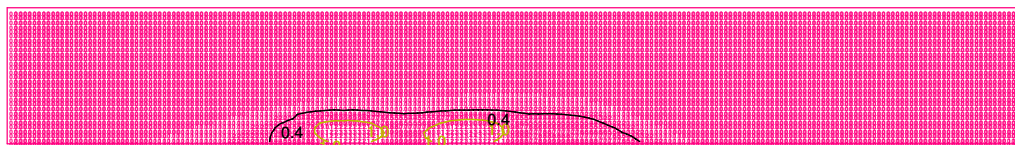


Results

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

Illuminance (lux)

Grid 7 - No57 boundary

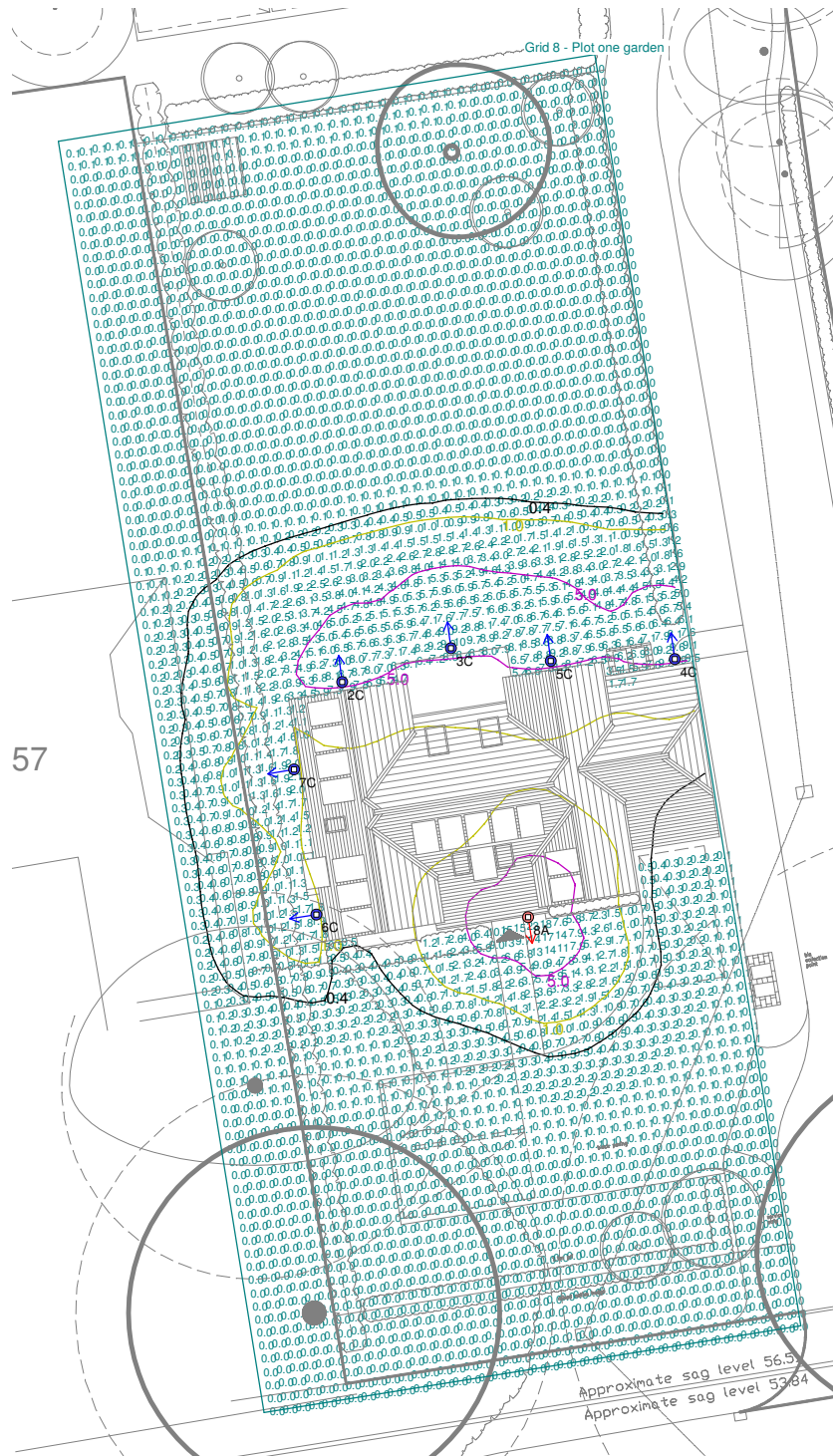


Results

Eav	0.08
Emin	0.00
Emax	1.35
Emin/Emax	0.00
Emin/Eav	0.00

Horizontal Illuminance (lux)

Grid 8 - Plot one garden

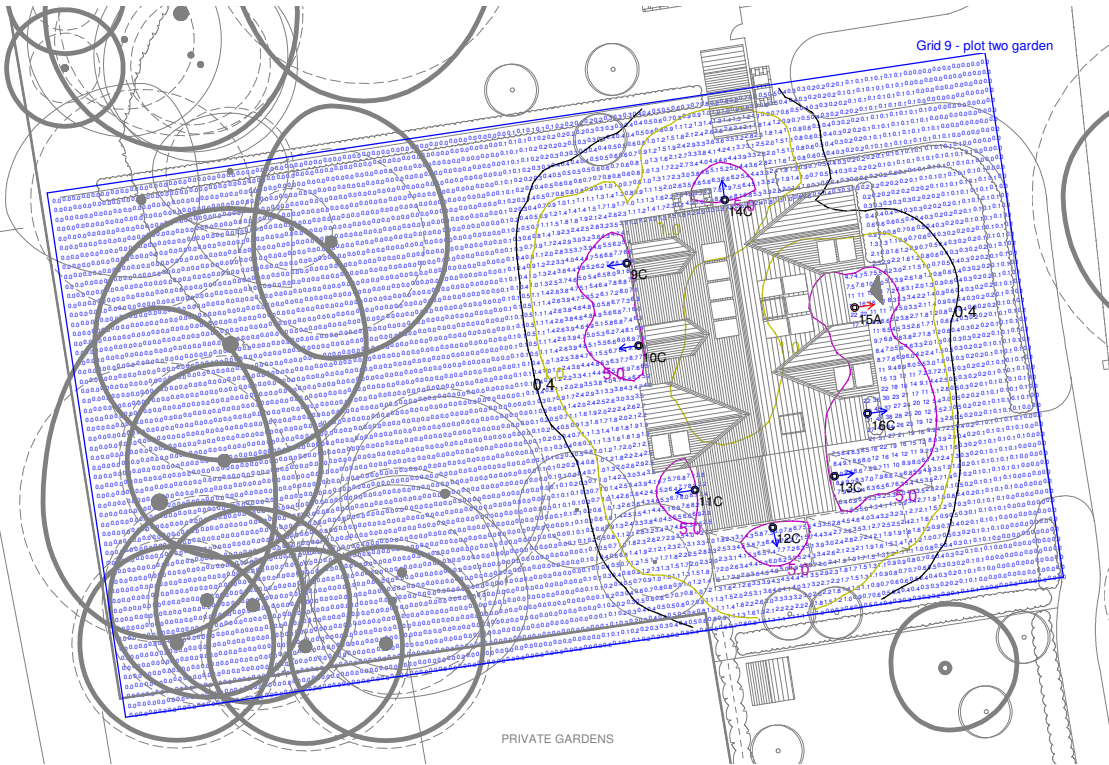


Results

Eav	0.76
Emin	0.00
Emax	23.46
Emin/Emax	0.00
Emin/Eav	0.00

Horizontal Illuminance (lux)

Grid 9 - plot two garden

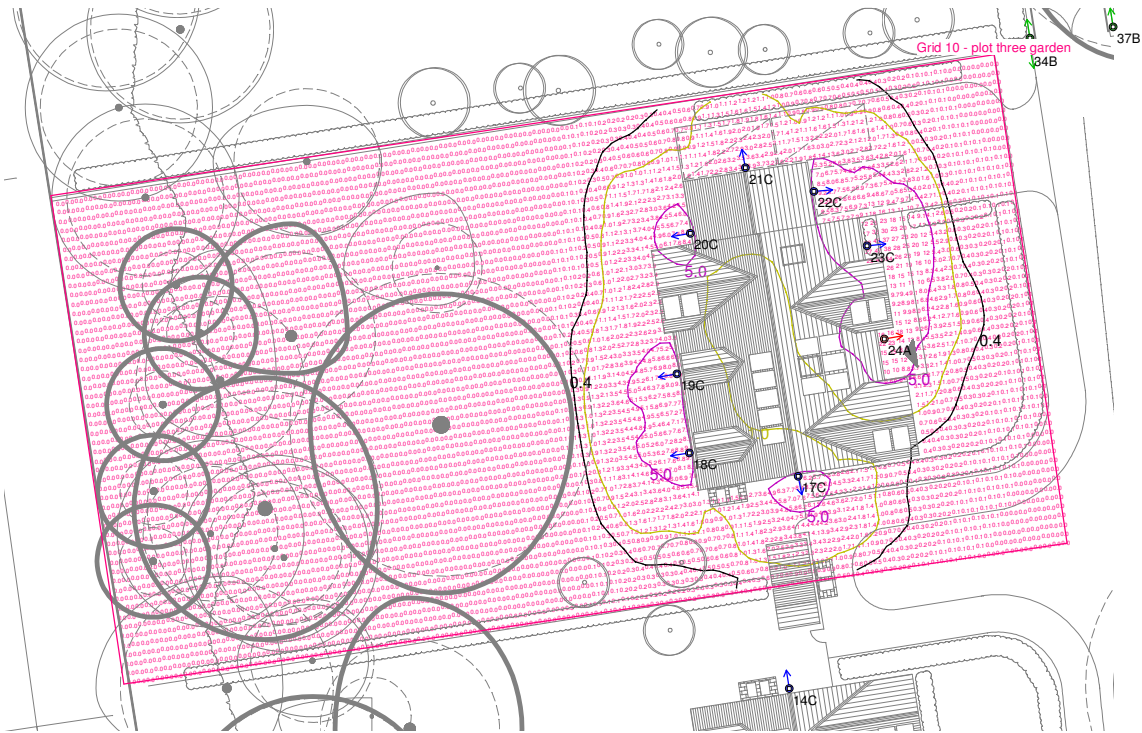


Results

Eav	1.06
Emin	0.00
Emax	47.17
Emin/Emax	0.00
Emin/Eav	0.00

Horizontal Illuminance (lux)

Grid 10 - plot three garden

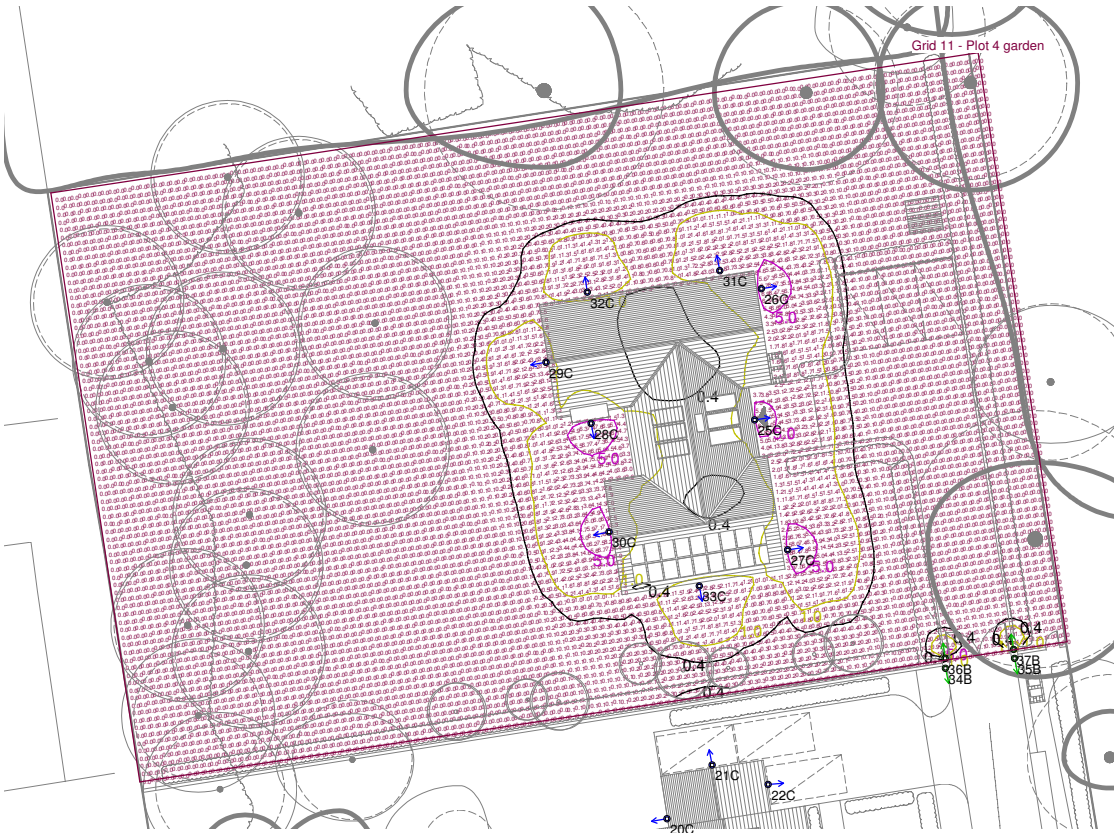


Results

Eav	0.95
Emin	0.00
Emax	47.08
Emin/Emax	0.00
Emin/Eav	0.00

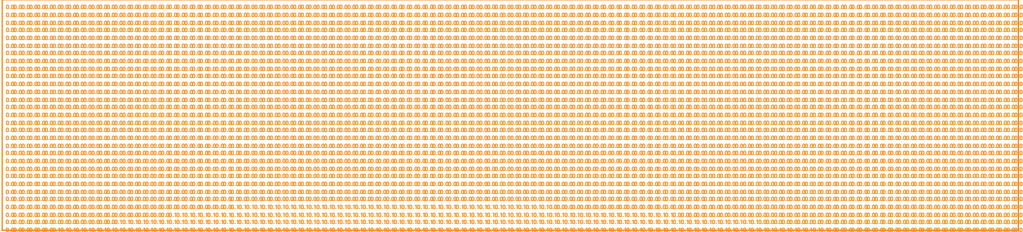
Horizontal Illuminance (lux)

Grid 11 - Plot 4 garden



Illuminance (lux)

Grid 12 - tree line plot two

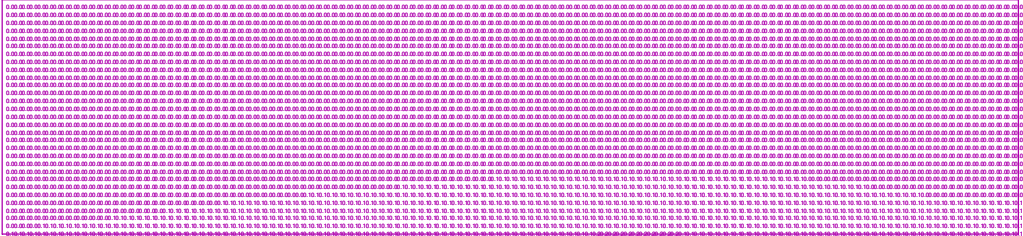


Results

Eav	0.01
Emin	0.00
Emax	0.08
Emin/Emax	0.00
Emin/Eav	0.00

Illuminance (lux)

Grid 13 - plot three tree line

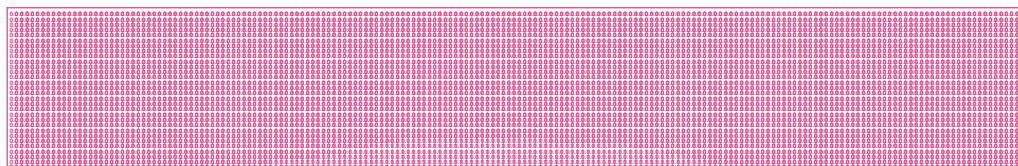


Results

Eav	0.02
Emin	0.00
Emax	0.15
Emin/Emax	0.00
Emin/Eav	0.00

Illuminance (lux)

Grid 14 - Plot four tree line



Results

Eav	0.01
Emin	0.00
E _{max}	0.14
Emin/E _{max}	0.00
Emin/Eav	0.00