

DATE: 21/08/2022
DESIGNER: James Duffin IEng MILP BA (Hons)
PROJECT No: SSE296001-AC-001-G
PROJECT NAME: Horton Heath, Segment 3

ENERVEO

Horton Heath Segment 3
Southern section adjacent to Lower Acre

Lighting Class - P2, P4, C3

Lantern - Urbis Schreder Axia 3.1
Urbis Schreder Axia 3.2
Colour Temperature - 3000K
Maintenance Factor - 0.85

This site has ecological issues and limitations on lighting for details see "Technical Note OHH Street Lighting and Ecology July22 (002).pdf" (this section is unaffected)

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 - Tie in to SSE2641...	448812.98	116051.86	51.00	181.50	1.50	1.50
2	Grid 2 - Major Housing Est...	448819.30	116229.89	75.00	114.00	1.50	1.50
3	Grid 3 - Cycle/Footpath - ...	448833.97	116163.66	12.00	120.00	1.50	1.50
4	Grid 4 - Footpath - P4	448813.46	116165.34	18.00	137.98	1.50	1.50
5	Grid 5 - Vertical plots 21...	448854.32	116260.43	23.11	5.00	1.44	1.25
6	Grid 6 - Vertical plots 21...	448852.06	116236.19	23.32	5.00	1.46	1.25
7	Grid 7 - Vertical plots 21...	448849.17	116211.88	23.19	5.00	1.45	1.25
8	Grid 8 - Footpath - P4	448819.78	116297.11	15.00	94.50	1.50	1.50
9	Grid 9 - Footpath - P4	448840.84	116287.91	21.00	180.00	1.50	1.50
10	Grid 10 - Footpath - P4	448765.81	116415.54	24.00	114.00	1.50	1.50
11	Grid 11 - Footpath - P4	448784.06	116458.56	15.00	57.00	1.00	1.00
12	Grid 12 - Vertical plots 3...	448813.91	116402.79	30.49	5.00	1.45	1.25
13	Grid 13 - Vertical plots 3...	448793.22	116458.69	35.56	5.00	1.48	1.25
14	Grid 14 - Vertical plots 3...	448834.02	116355.71	23.10	5.00	1.44	1.25
15	Grid 15 - Vertical plots 3...	448806.22	116424.00	11.75	5.00	1.47	1.25
16	Grid 16 - Spine Road - P2	448778.66	116330.31	75.00	192.00	1.50	1.50
17	Grid 17 - Footpath - P4	448820.10	116090.50	10.00	90.00	1.00	1.00
18	Grid 18 - Footpath - P4	448832.84	116093.05	15.00	39.00	1.00	1.34

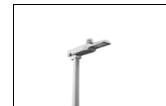
Luminaires

Luminaire A Data



Supplier	Urbis Schreder
Type	AXIA 3.2 5279 Integrated lenses 24 OSLO N SQUARE GIANT@1000m
Lamp(s)	24 OSLO N SQUARE GIANT@1000mA W W 730 230V
LampFlux(klm)/Colour	8.49 WW 3000K/70
File Name	AXIA 3.2 5279 24 OSLO N SQUARE GIANT T 1000mA WW 730 76W 430122 Integrated...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	758.9, 149.6, 0.0
Lamp S/P Ratio	1.37
No. in Project	1

Luminaire B Data



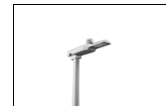
Supplier	Urbis Schreder
Type	AXIA 3.2 5295 Integrated lenses 32 OSLO N SQUARE GIANT@800mA
Lamp(s)	32 OSLO N SQUARE GIANT@800mA WW 730 230V
LampFlux(klm)/Colour	9.85 WW 3000K/70
File Name	AXIA 3.2 5295 32 OSLO N SQUARE GIANT T 800mA WW 730 78W 441022 Integrated...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	753.3, 15.9, 0.0
Lamp S/P Ratio	1.37
No. in Project	1

Luminaire C Data



Supplier	Urbis Schreder
Type	AXIA 3.2 5295 Integrated lenses Rear louvers 32 OSLO N SQUARE
Lamp(s)	32 OSLO N SQUARE GIANT@800mA WW 730 230V 00-49-490
LampFlux(klm)/Colour	7.96 WW 3000K/70
File Name	AXIA 3.2 5295 32 OSLO N SQUARE GIANT T 800mA WW 730 78W 479062 Integrated...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	723.7, 21.7, 0.0
Lamp S/P Ratio	0.00
No. in Project	3

Luminaire D Data



Supplier	Urbis Schreder
Type	AXIA 3.2 5267 Integrated lenses - 32 OSLO N SQUARE GIANT@800m
Lamp(s)	32 OSLO N SQUARE GIANT@800mA WW 730 230V 00-49-490
LampFlux(klm)/Colour	9.61 WW 3000K/70
File Name	AXIA 3.2 5267 32 OSLO N SQUARE GIANT T 800mA WW 730 78W 430092 Integrated...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	1001.2, 151.3, 0.0
Lamp S/P Ratio	1.37
No. in Project	4

Luminaires**Luminaire E Data**

Supplier	Urbis Schreder
Type	AXIA 3.2 5279 Integrated lenses Rear louvers 32 OSLO SQUARE
Lamp(s)	32 OSLO SQUARE GIANT@600mA WW 730 230V 00-49-490
LampFlux(klm)/Colour	6.10 WW 3000K/70
File Name	AXIA 3.2 5279 32 OSLO SQUARE GIANT T 600mA WW 730 59W 478812 Integrated...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	878.0, 147.2, 0.0
Lamp S/P Ratio	1.37
No. in Project	3

Luminaire F Data

Supplier	Urbis Schreder
Type	AXIA 3.2 5279 Integrated lenses 24 OSLO SQUARE GIANT@700mA
Lamp(s)	24 OSLO SQUARE GIANT@700mA WW 730 230V
LampFlux(klm)/Colour	6.53 WW 3000K/70
File Name	AXIA 3.2 5279 24 OSLO SQUARE GIANT T 700mA WW 730 52.5W 430122 Integrated...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	758.9, 149.6, 0.0
Lamp S/P Ratio	1.37
No. in Project	3

Luminaire G Data

Supplier	Urbis Schreder
Type	AXIA 3.1 5266 Integrated lenses Rear louvers 8 OSLO SQUARE G
Lamp(s)	8 OSLO SQUARE GIANT@700mA WW 730 230V 01-37-041
LampFlux(klm)/Colour	1.74 WW 3000K/70
File Name	AXIA 3.1 5266 8 OSLO SQUARE GIANT 700mA WW 730 19.4W 457662 Integrated...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	1216.3, 169.4, 0.0
Lamp S/P Ratio	0.00
No. in Project	45

Luminaire H Data

Supplier	Urbis Schreder
Type	AXIA 3.2 5266 Integrated lenses Rear louvers 24 OSLO SQUARE
Lamp(s)	24 OSLO SQUARE GIANT@800mA WW 730 230V 00-49-490
LampFlux(klm)/Colour	5.81 WW 3000K/70
File Name	AXIA 3.2 5266 24 OSLO SQUARE GIANT T 800mA WW 730 60.5W 478612 Integrated...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	1284.3, 145.1, 0.0
Lamp S/P Ratio	1.37
No. in Project	41

Luminaire X Data

Supplier	Philips
Type	BGP621 DW50
Lamp(s)	LED-HB 5.1S
Lamp Flux (klm)	9.50
File Name	Luma Mini_BGP621_DW50_9500_40LED_5.1S_CLO_L90_NW.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	616.7, 39.5, 0.0
Lamp S/P Ratio	1.61
No. in Project	2

Luminaire Y Data

Supplier	Philips
Type	BGP621 DM10 BL1
Lamp(s)	LED-HB 5.1S
Lamp Flux (klm)	7.00
File Name	Luma Mini_BGP621_DM10 BL1_7000_40LED_5.1S_CLO_L90_NW.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	529.5, 53.6, 0.0
Lamp S/P Ratio	1.61
No. in Project	1

Luminaire Z Data

Supplier	Philips
Type	BGP703 DX10
Lamp(s)	LED-HB 5.2S 730
Lamp Flux (klm)	9.50
File Name	Luma Gen2 Mini_BGP703_DX10_9500_40LED_5.2S_CLO_L90_730.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	522.9, 97.5, 0.0
Lamp S/P Ratio	1.30
No. in Project	1

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
264130_1	Z	448829.64	116091.74	8.00	25.00	0.00	0.00	0.40			
2	D	448824.48	116134.57	8.00	354.00	0.00	0.00	0.40			
3	D	448838.83	116162.93	8.00	179.00	0.00	0.00	0.40			
5	D	448836.29	116197.32	8.00	178.00	0.00	0.00	0.40			
8	C	448839.32	116232.05	8.00	169.00	0.00	0.00	0.40			
10	C	448847.56	116261.65	8.00	164.00	0.00	0.00	0.40			
12	C	448836.56	116288.36	8.00	13.00	0.00	0.00	0.40			
1_SR1	D	448855.80	116295.81	8.00	279.00	0.00	0.00	0.40			
14	B	448829.79	116309.23	8.00	14.00	0.00	0.00	0.40			
16	E	448830.17	116344.84	8.00	202.00	0.00	0.00	0.40			
18	E	448814.96	116377.29	8.00	207.00	0.00	0.00	0.40			
20	F	448793.09	116401.08	8.00	14.00	0.00	0.00	0.40			
22	F	448786.85	116429.81	8.00	16.00	0.00	0.00	0.40			
24	E	448785.60	116458.81	8.00	207.00	0.00	0.00	0.40			
27	F	448769.19	116492.15	8.00	355.00	0.00	0.00	0.40			
29	A	448780.51	116523.33	8.00	179.00	0.00	0.00	0.40			
26	G	448785.39	116476.93	6.00	194.00	0.00	0.00	0.40			
21	G	448805.24	116423.37	6.00	201.00	0.00	0.00	0.40			
1_SR2	G	448805.24	116410.66	6.00	293.00	0.00	0.00	0.40			
13	G	448848.62	116317.82	6.00	204.00	0.00	0.00	0.40			
19	G	448816.53	116388.88	6.00	199.00	0.00	0.00	0.40			
15	G	448818.20	116326.76	6.00	53.00	0.00	0.00	0.40			
17	G	448805.76	116354.23	6.00	17.00	0.00	0.00	0.40			
25	G	448764.95	116464.50	6.00	6.00	0.00	0.00	0.40			
28	G	448764.33	116498.93	6.00	352.00	0.00	0.00	0.40			
4	G	448843.57	116187.50	6.00	169.00	0.00	0.00	0.40			
7	G	448848.70	116229.54	6.00	178.00	0.00	0.00	0.40			
11	G	448825.24	116268.39	6.00	339.00	0.00	0.00	0.40			
9	G	448817.89	116236.22	6.00	3.00	0.00	0.00	0.40			
6	G	448819.01	116205.04	6.00	4.00	0.00	0.00	0.40			
30	H	448779.15	116555.98	8.00	192.00	0.00	0.00	0.40			
31	H	448765.00	116587.16	8.00	215.00	0.00	0.00	0.40			
32	H	448739.04	116612.85	8.00	225.00	0.00	0.00	0.40			
33	H	448719.71	116629.84	8.00	223.00	0.00	0.00	0.40			
34	H	448699.71	116654.74	8.00	215.00	0.00	0.00	0.40			
35	H	448682.81	116683.11	8.00	207.00	0.00	0.00	0.40			

Layout Continued

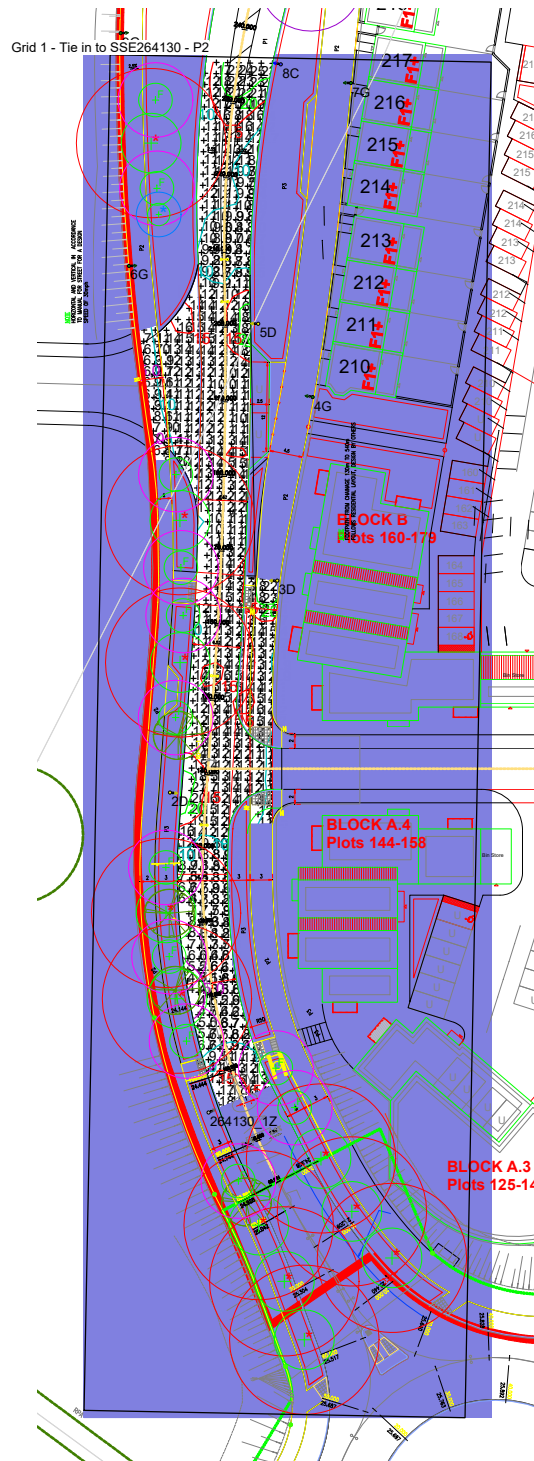
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
36	H	448666.05	116711.50	8.00	211.00	0.00	0.00	0.40			
37	H	448650.72	116740.63	8.00	195.00	0.00	0.00	0.40			
38	H	448644.85	116773.16	8.00	185.00	0.00	0.00	0.40			
39	H	448637.83	116805.31	8.00	197.00	0.00	0.00	0.40			
40	H	448626.87	116836.38	8.00	197.00	0.00	0.00	0.40			
41	H	448602.77	116859.36	8.00	40.00	0.00	0.00	0.40			
100	H	448444.76	117750.38	8.00	218.00	0.00	0.00	0.40			
66_264127	Y	448432.30	117765.59	8.00	215.00	0.00	0.00	0.40			
67_264127	X	448397.51	117763.47	8.00	114.00	0.00	0.00	0.40			
68	X	448420.85	117783.40	8.00	204.00	0.00	0.00	0.40			
23	G	448778.59	116437.93	6.00	30.00	0.00	0.00	0.40			
42	H	448589.05	116891.00	8.00	223.00	0.00	0.00	0.40			
43	H	448556.58	116898.37	8.00	59.00	0.00	0.00	0.40			
45	H	448534.01	116915.75	8.00	41.00	0.00	0.00	0.40			
47	H	448521.90	116993.64	8.00	197.00	0.00	0.00	0.40			
48	H	448510.26	117013.21	8.00	215.00	0.00	0.00	0.40			
44	G	448563.73	116911.20	6.00	244.00	0.00	0.00	0.40			
46	G	448544.20	116923.60	6.00	220.00	0.00	0.00	0.40			
49	G	448516.36	117019.74	6.00	200.00	0.00	0.00	0.40			
50	H	448485.12	117035.29	8.00	32.00	0.00	0.00	0.40			
52	H	448472.13	117065.63	8.00	15.00	0.00	0.00	0.40			
54	H	448469.35	117098.00	8.00	356.00	0.00	0.00	0.40			
56	H	448474.41	117131.99	8.00	190.00	0.00	0.00	0.40			
58	H	448462.36	117157.47	8.00	352.00	0.00	0.00	0.40			
60	H	448467.78	117180.72	8.00	339.00	0.00	0.00	0.40			
62	H	448483.62	117192.26	8.00	158.00	0.00	0.00	0.40			
66	H	448477.54	117256.11	8.00	206.00	0.00	0.00	0.40			
68	H	448449.79	117270.72	8.00	61.00	0.00	0.00	0.40			
70	H	448424.36	117292.75	8.00	36.00	0.00	0.00	0.40			
72	H	448409.35	117322.11	8.00	19.00	0.00	0.00	0.40			
74	H	448406.25	117356.08	8.00	352.00	0.00	0.00	0.40			
51	G	448504.47	117046.20	8.00	203.00	0.00	0.00	0.40			
53	G	448494.96	117071.47	6.00	195.00	0.00	0.00	0.40			
55	G	448492.53	117094.99	6.00	182.00	0.00	0.00	0.40			
57	G	448489.45	117126.83	6.00	188.00	0.00	0.00	0.40			
59	G	448484.07	117154.34	6.00	194.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
61	G	448483.94	117171.48	6.00	170.00	0.00	0.00	0.40			
63	G	448489.25	117188.26	6.00	154.00	0.00	0.00	0.40			
64	G	448496.26	117199.00	6.00	150.00	0.00	0.00	0.40			
65	G	448493.02	117248.52	6.00	212.00	0.00	0.00	0.40			
67	G	448470.54	117274.07	6.00	227.00	0.00	0.00	0.40			
69	G	448446.65	117290.95	6.00	230.00	0.00	0.00	0.40			
71	G	448430.19	117311.18	6.00	204.00	0.00	0.00	0.40			
76	H	448413.75	117387.44	8.00	346.00	0.00	0.00	0.40			
80	H	448428.33	117418.65	8.00	172.00	0.00	0.00	0.40			
82	H	448431.90	117451.42	8.00	179.00	0.00	0.00	0.40			
84	H	448416.71	117481.16	8.00	1.00	0.00	0.00	0.40			
87	H	448422.38	117513.72	8.00	343.00	0.00	0.00	0.40			
89	H	448444.35	117538.60	8.00	155.00	0.00	0.00	0.40			
90	H	448455.48	117570.87	8.00	162.00	0.00	0.00	0.40			
92	H	448462.65	117604.16	8.00	178.00	0.00	0.00	0.40			
94	H	448450.61	117629.75	8.00	7.00	0.00	0.00	0.40			
96	H	448449.03	117647.77	8.00	352.00	0.00	0.00	0.40			
99	H	448455.97	117733.47	8.00	209.00	0.00	0.00	0.40			
78	G	448413.15	117406.64	8.00	356.00	0.00	0.00	0.40			
81	G	448412.08	117431.41	8.00	4.00	0.00	0.00	0.40			
73	G	448422.03	117335.30	6.00	187.00	0.00	0.00	0.40			
75	G	448423.19	117356.29	6.00	170.00	0.00	0.00	0.40			
77	G	448429.52	117381.02	6.00	170.00	0.00	0.00	0.40			
79	G	448437.31	117405.16	6.00	170.00	0.00	0.00	0.40			
83	G	448410.21	117458.42	6.00	10.00	0.00	0.00	0.40			
86	G	448410.62	117497.31	6.00	349.00	0.00	0.00	0.40			
88	G	448439.81	117516.74	6.00	157.00	0.00	0.00	0.40			
85	G	448432.66	117493.98	6.00	174.00	0.00	0.00	0.40			
98	G	448478.89	117678.61	6.00	136.00	0.00	0.00	0.40			
97	G	448469.56	117670.04	6.00	142.00	0.00	0.00	0.40			
95	G	448463.68	117655.48	6.00	172.00	0.00	0.00	0.40			
93	G	448466.12	117628.40	6.00	194.00	0.00	0.00	0.40			
91	G	448471.16	117599.02	6.00	163.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1 - Tie in to SSE264130 - P2

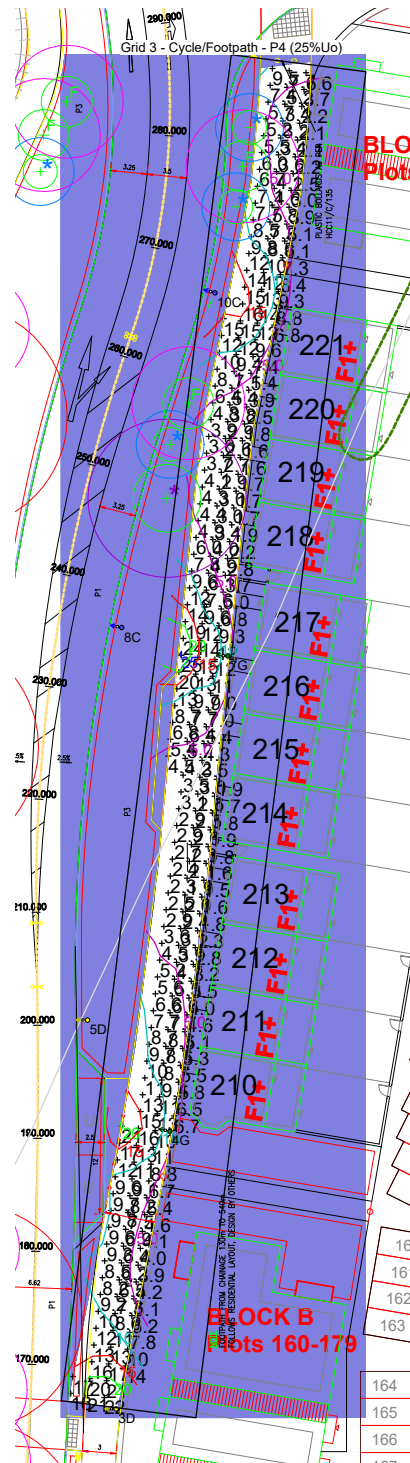


Results

Eav	12.05
Emin	4.38
E _{max}	24.64
E _{min} /E _{max}	0.18
E _{min} /E _{av}	0.36

Horizontal Illuminance (lux)

Grid 3 - Cycle/Footpath - P4 (25%Uo)

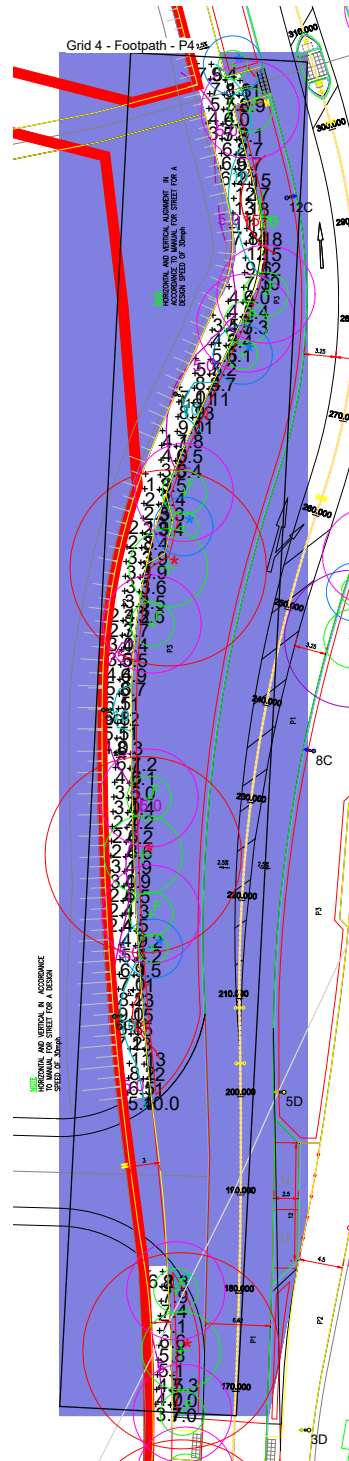


Results

Eav	7.37
Emin	1.48
Emax	25.34
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 4 - Footpath - P4



Results

Eav	6.85
Emin	1.90
Emax	18.04
Emin/Emax	0.11
Emin/Eav	0.28

Illuminance (lux)

Grid 5 - Vertical plots 218-221

0.9	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
2.8	2.1	1.4	0.9	0.6	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3
3.8	3.4	2.7	1.9	1.3	0.9	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4
2.9	2.5	2.1	1.7	1.3	1.1	0.8	0.7	0.6	0.5	0.4	0.4	0.4	0.5	0.6	0.6

Results

Eav	0.78
Emin	0.10
E _{max}	3.83
Emin/E _{max}	0.03
Emin/Eav	0.13

Illuminance (lux)

Grid 6 - Vertical plots 214-217

0.1	0.1	0.2	0.5	1.0	0.9	0.6	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2
0.3	0.3	0.5	0.9	1.3	1.2	0.8	0.5	0.4	0.3	0.3	0.6	0.5	0.3	0.3	0.3
0.4	0.4	0.6	0.8	1.0	1.0	0.8	0.6	0.5	0.4	0.3	0.7	0.9	0.8	0.6	0.5
0.6	0.7	0.9	1.0	1.2	1.1	0.9	0.8	0.6	0.5	0.4	0.6	0.6	0.7	0.8	0.8

Results

Eav	0.57
Emin	0.13
Emax	1.30
Emin/Emax	0.10
Emin/Eav	0.23

Illuminance (lux)

Grid 7 - Vertical plots 210-213

0.3	0.3	0.4	0.5	0.7	0.9	1.1	1.2	1.4	1.6	1.6	1.8	1.8	1.8	1.8	2.1
0.3	0.4	0.5	0.7	0.9	1.0	1.2	1.6	1.9	2.1	2.2	2.2	2.2	2.1	2.0	2.1
0.5	0.5	0.6	0.7	0.9	1.2	1.4	1.7	2.1	2.3	2.4	2.4	2.4	2.3	2.2	2.1
0.7	0.7	0.8	0.9	1.1	1.4	1.6	2.0	2.2	2.5	2.6	2.6	2.6	2.4	2.2	2.0

Results

Eav	1.52
Emin	0.27
Emax	2.64
Emin/Emax	0.10
Emin/Eav	0.17

Horizontal Illuminance (lux)

Grid 8 - Footpath - P4

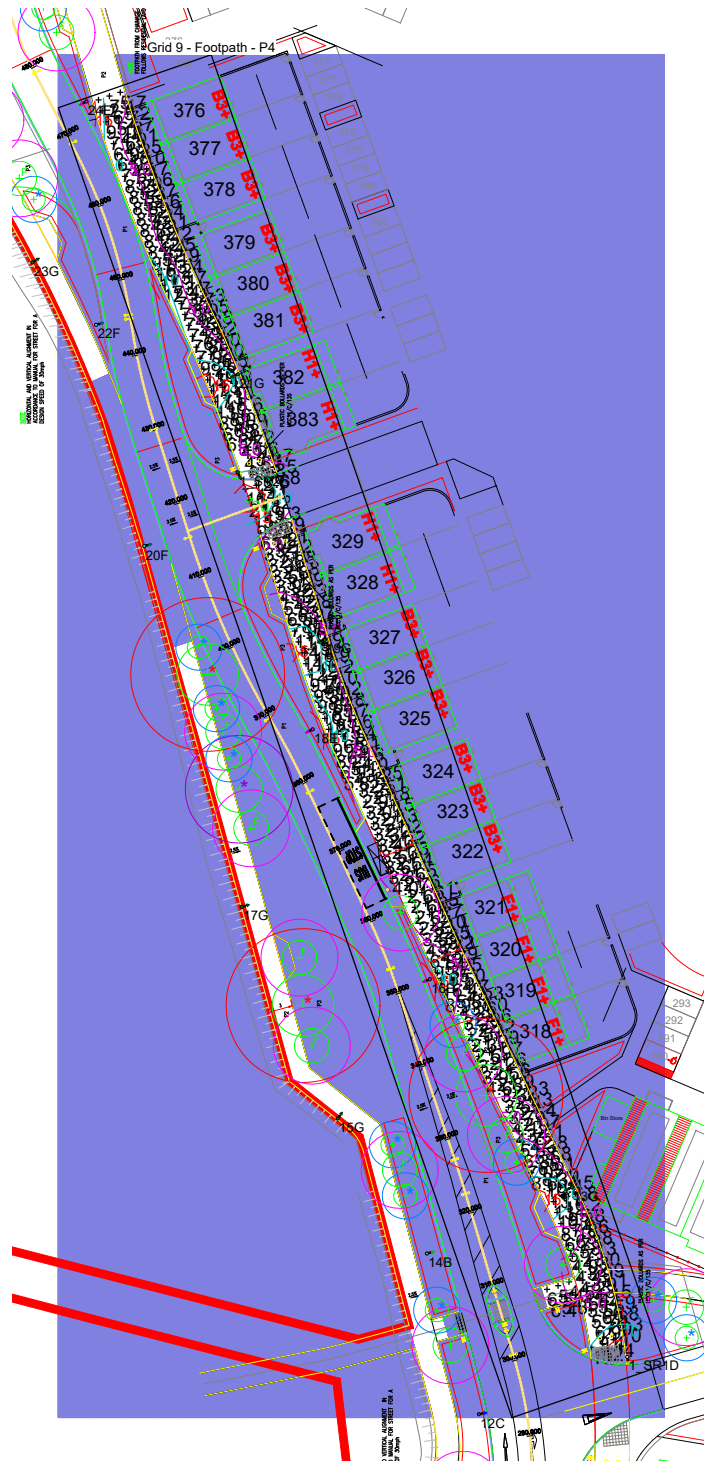


Results

Eav	6.29
Emin	1.72
E _{max}	21.52
E _{min} /E _{max}	0.08
E _{min} /E _{av}	0.27

Horizontal Illuminance (lux)

Grid 9 - Footpath - P4



Results

Eav	5.80
Emin	1.14
Emax	21.05
Emin/Emax	0.05
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 10 - Footpath - P4

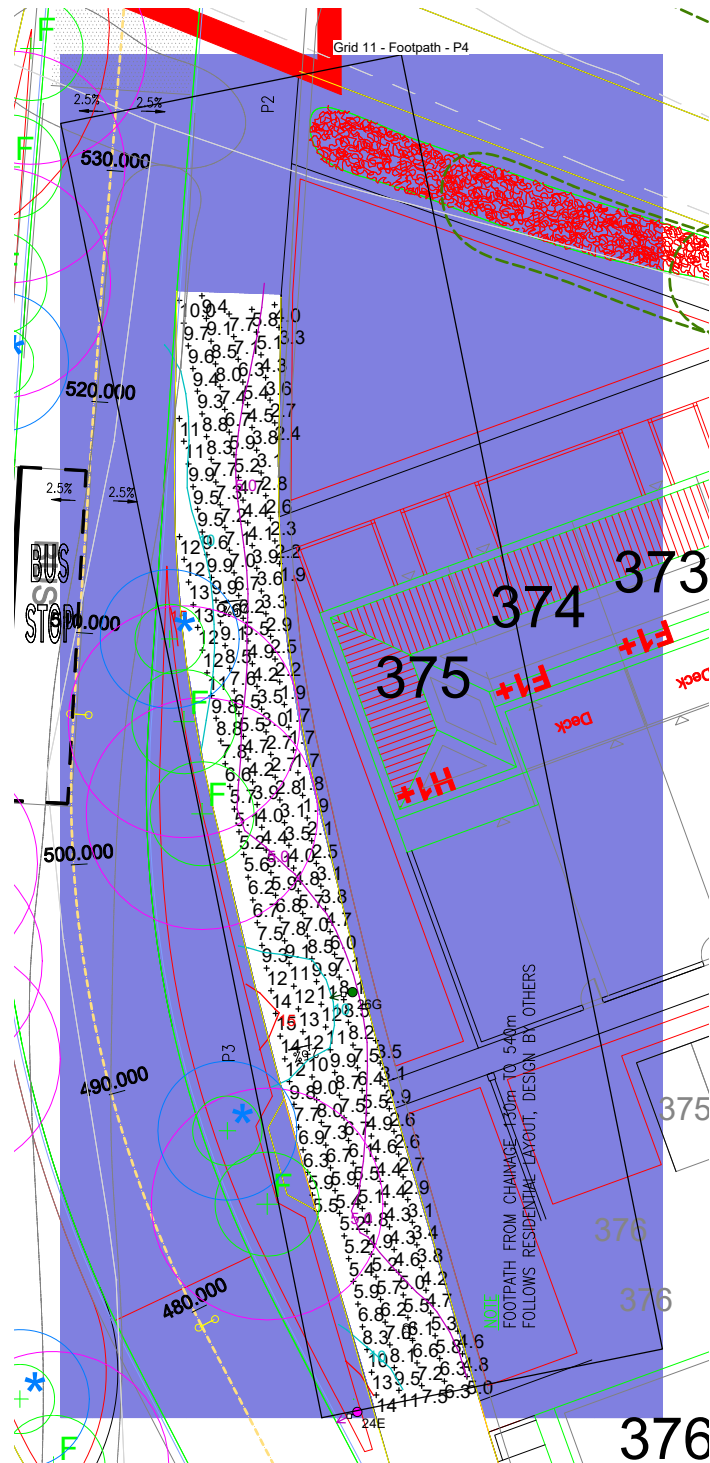


Results

Eav	7.41
Emin	2.44
Emax	16.40
Emin/Emax	0.15
Emin/Eav	0.33

Horizontal Illuminance (lux)

Grid 11 - Footpath - P4



Results

Eav	6.51
Emin	1.67
Emax	15.37
Emin/Emax	0.11
Emin/Eav	0.26

Illuminance (lux)

Grid 12 - Vertical plots 325-329

0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.5	0.4
0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.6	0.9	1.4	1.1	0.9	0.8	0.8	0.8	0.9	1.0	1.0	0.9	0.8	0.7
0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.7	0.9	1.0	1.0	1.0	0.9	1.0	1.1	1.2	1.3	1.3	1.2	1.0	0.8
0.5	0.5	0.4	0.4	0.4	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.0	1.1	1.3	1.4	1.4	1.4	1.3	1.2	1.1

Results

Eav	0.69
Emin	0.19
Emax	1.44
Emin/Emax	0.13
Emin/Eav	0.27

Illuminance (lux)

Grid 13 - Vertical plots 376-381

0.9	0.7	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	1.0
1.4	1.1	0.9	0.7	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.7	0.7	0.5	0.5	0.7	0.9
1.7	1.6	1.5	1.2	0.9	0.7	0.6	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.9	0.9	0.9	0.7	0.7	0.6	0.7	0.8
2.3	2.3	2.2	1.8	1.3	1.0	0.8	0.7	0.7	0.8	0.8	0.9	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.0	0.9	0.8	0.8	0.8

Results

Eav	0.76
Emin	0.26
Emax	2.34
Emin/Emax	0.11
Emin/Eav	0.35

Illuminance (lux)

Grid 14 - Vertical plots 318-221

0.3	0.4	0.5	0.6	0.7	0.7	0.8	0.8	0.7	0.6	0.4	0.3	0.3	0.2	0.2	0.2
0.5	0.6	0.8	1.0	1.1	1.3	1.3	1.2	1.1	0.9	0.7	0.6	0.4	0.3	0.3	0.2
0.6	0.8	1.0	1.2	1.5	1.6	1.6	1.6	1.3	1.1	0.9	0.8	0.6	0.5	0.4	0.4
0.8	1.0	1.2	1.4	1.6	1.8	1.8	1.7	1.6	1.4	1.3	1.2	1.0	0.8	0.6	0.5

Results

Eav	0.86
Emin	0.15
E _{max}	1.85
Emin/E _{max}	0.08
Emin/Eav	0.17

Illuminance (lux)

Grid 15 - Vertical plots 382-383

3.1	1.4	0.6	0.3	0.3	0.3	0.3	0.6
1.7	1.1	0.7	0.5	0.4	0.4	0.7	1.0
1.1	0.8	0.6	0.6	0.5	0.6	0.8	1.2
0.9	0.7	0.6	0.7	0.6	0.6	0.8	1.3

Results

Eav	0.81
Emin	0.27
E _{max}	3.14
Emin/E _{max}	0.09
Emin/Eav	0.34

Horizontal Illuminance (lux)

Grid 16 - Spine Road - P2

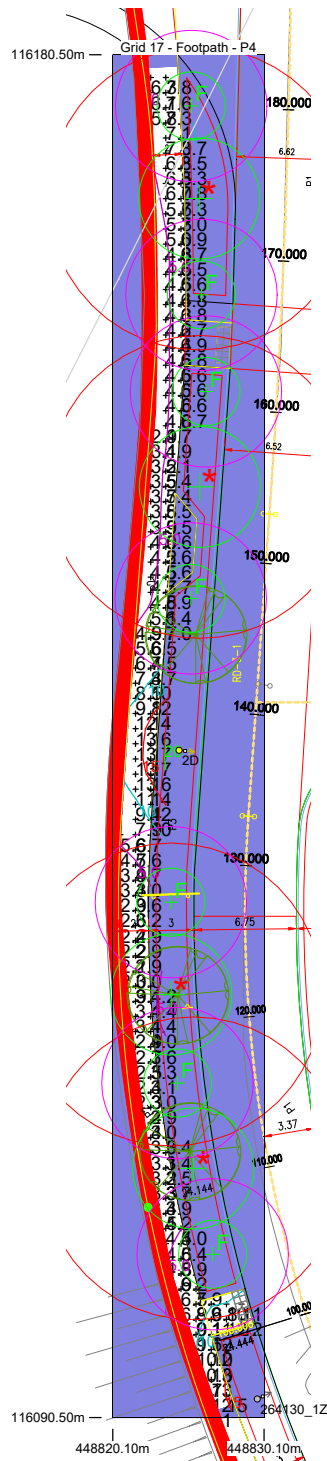


Results

Eav	13.78
Emin	3.33
Emax	33.36
Emin/Emax	0.10
Emin/Eav	0.24

Horizontal Illuminance (lux)

Grid 17 - Footpath - P4

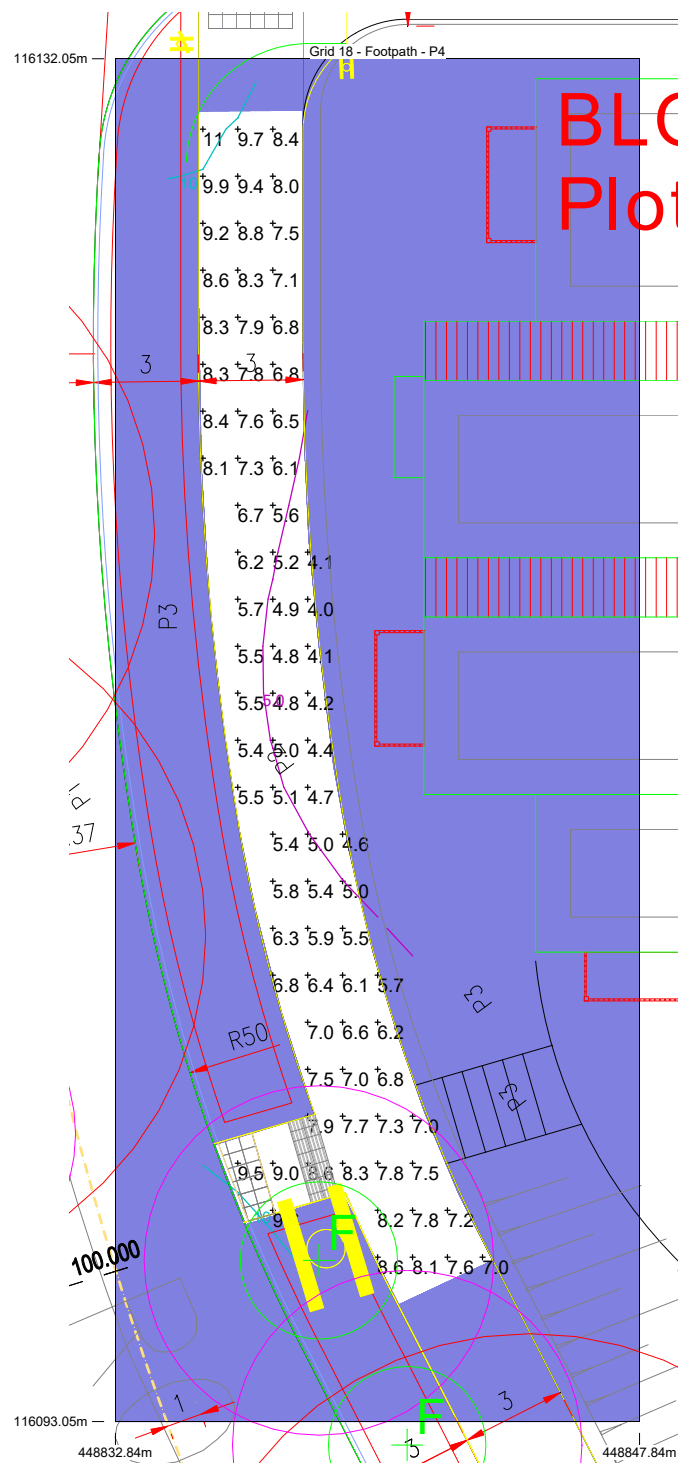


Results

Eav	6.35
Emin	1.90
E _{max}	16.62
E _{min} /E _{max}	0.11
E _{min} /E _{av}	0.30

Horizontal Illuminance (lux)

Grid 18 - Footpath - P4



Results

Eav	6.87
Emin	4.04
E _{max}	10.50
Emin/E _{max}	0.38
Emin/Eav	0.59