

DATE: 5 June 2026
DESIGNER: DFL-UK
PROJECT No: 4460
PROJECT NAME: Ickleford Mill



Location: Ickleford Mill
Environmental Zone: E2
GN08: 0.4lx Maximum Vertical Illuminance
Lighting parameters taken from ILP Guidance documents
GN08.2023 - Bats and Artificial Lighting at Night.

4460-DFL-HLG-XX-CA-EO-13004-S3-P02

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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	PSER 001 - Boundary Trees	518235.62	231378.58	14.84	6.00	0.49	0.50
2	PSER 002 - Boundary Trees	518293.30	231342.71	20.09	6.00	0.50	0.50
3	PSER 003 - Boundary Trees	518303.47	231323.38	51.86	6.00	0.50	0.50
4	PSER 004 - Boundary Trees	518310.50	231255.56	40.11	6.00	0.50	0.50
5	PSER 005 - Boundary Trees	518120.00	231265.87	31.89	6.00	0.72	0.50
6	PSER 006 - Boundary Trees	518163.84	231352.77	29.99	6.00	0.50	0.50
7	PSER 007 - River Oughton	518150.75	231188.13	54.98	6.00	0.50	0.50
8	PSER 007 - River Oughton	518196.23	231227.94	31.04	6.00	0.50	0.50
9	PSER 007 - River Oughton	518220.28	231248.25	44.40	6.00	0.50	0.50
10	PSER 007 - River Oughton	518154.62	231183.79	53.35	6.00	0.50	0.50
11	PSER 007 - River Oughton	518206.18	231222.47	71.28	6.00	0.50	0.50
12	PSER 007 - River Oughton	518300.04	231324.52	26.94	5.00	0.50	0.42
13	PSER 007 - River Oughton	518275.44	231278.22	16.64	6.00	0.49	0.50
14	PSER 007 - River Oughton	518293.13	231283.17	17.88	6.00	0.50	0.50
15	PSER 006 - Trees Beside Ri...	518270.62	231246.67	64.87	6.00	0.50	0.50

Luminaires

Luminaire A Data



Supplier	Urbis Schreder
Type	AXIA 3.1 5384 Integrated lenses Back Light 16 OSLON SQUARE GI
Lamp(s)	16 OSLON SQUARE GIANT@300mA WW 72 7 230V 01-37-041
LampFlux(klm)/Colour	2.26 WW 2700K/70
File Name	AXIA 3.1 5384 16 OSLON SQUARE GIANT 3 00mA WW 727 16.1W 487532 Integrated le...
Maintenance Factor	1.00
Imax70,80,90(cd/klm)	849.7, 184.2, 0.0
No. in Project	15

Luminaire B Data



Supplier	D W Windsor
Type	Pharola DS 2.7k 700mA shielded
Lamp(s)	9x 2.7k LED
Lamp Flux (klm)	0.70
File Name	Pharola DS 2.7k 700mA UMSUG 42 0020 00 00 100 Shielded.ies
Maintenance Factor	1.00
Imax70,80,90(cd/klm)	611.9, 139.2, 0.0
No. in Project	17

Luminaire C Data

Supplier	Ligman
Type	GI-31591-W27
Lamp(s)	1 COB LED 2700K
Lamp Flux (klm)	0.20
File Name	GI-31591-W27.IES
Maintenance Factor	1.00
Imax70,80,90(cd/klm)	61.8, 25.0, 1.0
No. in Project	100

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	518294.32	231258.26	5.00	97.00	0.00	0.00	0.40			
2	A	518262.10	231276.34	5.00	47.00	0.00	0.00	0.40			
3	A	518243.86	231294.90	5.00	33.00	0.00	0.00	0.40			
4	A	518225.52	231318.09	5.00	33.00	0.00	0.00	0.40			
5	A	518258.20	231310.36	5.00	309.00	0.00	0.00	0.40			
6	A	518282.26	231312.44	5.00	218.00	0.00	0.00	0.40			
7	A	518217.48	231344.41	5.00	209.00	0.00	0.00	0.40			
8	A	518221.03	231364.26	5.00	135.00	0.00	0.00	0.40			
9	A	518194.00	231343.16	5.00	117.00	0.00	0.00	0.40			
10	A	518219.11	231295.03	5.00	123.00	0.00	0.00	0.40			
11	A	518189.11	231290.07	5.00	291.00	0.00	0.00	0.40			
12	A	518170.12	231271.40	5.00	125.00	0.00	0.00	0.40			
13	A	518135.54	231253.31	5.00	309.00	0.00	0.00	0.40			
14	A	518197.02	231265.53	5.00	29.00	0.00	0.00	0.40			
15	A	518161.52	231236.51	5.00	218.00	0.00	0.00	0.40			
16	B	518173.00	231219.17	1.00	220.00	0.00	0.00	0.00			
17	B	518182.16	231220.14	1.00	125.00	0.00	0.00	0.00			
18	B	518189.86	231231.02	1.00	310.00	0.00	0.00	0.00			
19	B	518202.10	231237.44	1.00	130.00	0.00	0.00	0.00			
20	B	518212.46	231246.53	1.00	120.00	0.00	0.00	0.00			
21	B	518225.26	231254.43	1.00	120.00	0.00	0.00	0.00			
22	B	518237.69	231263.02	1.00	120.00	0.00	0.00	0.00			
23	B	518250.57	231270.60	1.00	120.00	0.00	0.00	0.00			
24	B	518204.19	231221.44	1.00	265.00	0.00	0.00	0.00			
25	B	518219.08	231223.88	1.00	115.00	0.00	0.00	0.00			
26	B	518232.88	231230.30	1.00	115.00	0.00	0.00	0.00			
27	B	518246.33	231237.04	1.00	115.00	0.00	0.00	0.00			
28	B	518259.72	231243.85	1.00	115.00	0.00	0.00	0.00			
29	B	518272.13	231253.03	1.00	155.00	0.00	0.00	0.00			
30	B	518285.95	231302.73	1.00	215.00	0.00	0.00	0.00			
31	B	518297.12	231289.48	1.00	220.00	0.00	0.00	0.00			
32	B	518303.01	231275.70	1.00	20.00	0.00	0.00	0.00			
1	C	518120.29	231228.48	1.80	127.00	0.00	0.00	0.00			
2	C	518126.30	231222.29	1.80	310.00	0.00	0.00	0.00			
3	C	518171.34	231226.44	1.80	220.00	0.00	0.00	0.00			
4	C	518139.08	231243.29	1.80	127.00	0.00	0.00	0.00			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
5	C	518142.56	231234.24	1.80	310.00	0.00	0.00	0.00			
6	C	518154.96	231205.49	1.80	310.00	0.00	0.00	0.00			
7	C	518150.05	231212.69	1.80	127.00	0.00	0.00	0.00			
8	C	518178.14	231231.99	1.80	40.00	0.00	0.00	0.00			
9	C	518161.77	231244.40	1.80	220.00	0.00	0.00	0.00			
10	C	518156.39	231250.61	1.80	220.00	0.00	0.00	0.00			
11	C	518171.49	231251.30	1.80	40.00	0.00	0.00	0.00			
12	C	518164.86	231259.13	1.80	40.00	0.00	0.00	0.00			
13	C	518203.70	231252.30	1.80	25.00	0.00	0.00	0.00			
14	C	518195.55	231248.64	1.80	210.00	0.00	0.00	0.00			
15	C	518184.97	231265.18	1.80	210.00	0.00	0.00	0.00			
16	C	518180.07	231271.03	1.80	210.00	0.00	0.00	0.00			
17	C	518194.69	231267.49	1.80	30.00	0.00	0.00	0.00			
18	C	518187.32	231275.09	1.80	30.00	0.00	0.00	0.00			
19	C	518208.73	231281.85	1.80	30.00	0.00	0.00	0.00			
20	C	518215.43	231268.64	1.80	30.00	0.00	0.00	0.00			
21	C	518199.32	231279.61	1.80	210.00	0.00	0.00	0.00			
22	C	518210.02	231262.17	1.80	210.00	0.00	0.00	0.00			
23	C	518236.44	231298.41	1.80	25.00	0.00	0.00	0.00			
24	C	518240.71	231288.27	1.80	25.00	0.00	0.00	0.00			
25	C	518245.25	231280.29	1.80	25.00	0.00	0.00	0.00			
26	C	518230.04	231282.78	1.80	210.00	0.00	0.00	0.00			
27	C	518235.29	231274.03	1.80	210.00	0.00	0.00	0.00			
28	C	518227.47	231292.99	1.80	210.00	0.00	0.00	0.00			
29	C	518259.63	231291.57	1.80	210.00	0.00	0.00	0.00			
30	C	518268.33	231300.46	1.80	130.00	0.00	0.00	0.00			
31	C	518279.26	231302.96	1.80	40.00	0.00	0.00	0.00			
32	C	518271.79	231292.71	1.80	320.00	0.00	0.00	0.00			
33	C	518246.74	231307.12	1.80	220.00	0.00	0.00	0.00			
34	C	518242.90	231311.63	1.80	220.00	0.00	0.00	0.00			
35	C	518233.87	231322.07	1.80	220.00	0.00	0.00	0.00			
36	C	518231.17	231325.25	1.80	220.00	0.00	0.00	0.00			
37	C	518254.46	231312.85	1.80	40.00	0.00	0.00	0.00			
38	C	518249.86	231318.43	1.80	40.00	0.00	0.00	0.00			
39	C	518241.74	231327.48	1.80	40.00	0.00	0.00	0.00			
40	C	518237.25	231333.07	1.80	40.00	0.00	0.00	0.00			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
41	C	518262.48	231331.01	1.80	130.00	0.00	0.00	0.00			
42	C	518269.18	231336.42	1.80	130.00	0.00	0.00	0.00			
43	C	518268.70	231325.60	1.80	310.00	0.00	0.00	0.00			
44	C	518273.11	231329.25	1.80	310.00	0.00	0.00	0.00			
45	C	518290.37	231345.33	1.80	25.00	0.00	0.00	0.00			
46	C	518288.13	231349.60	1.80	25.00	0.00	0.00	0.00			
47	C	518279.85	231346.32	1.80	210.00	0.00	0.00	0.00			
48	C	518282.50	231341.32	1.80	210.00	0.00	0.00	0.00			
49	C	518222.18	231338.69	1.80	210.00	0.00	0.00	0.00			
50	C	518219.56	231343.07	1.80	210.00	0.00	0.00	0.00			
51	C	518232.16	231342.22	1.80	30.00	0.00	0.00	0.00			
52	C	518227.27	231350.38	1.80	30.00	0.00	0.00	0.00			
53	C	518225.16	231358.98	1.80	30.00	0.00	0.00	0.00			
54	C	518216.15	231353.55	1.80	210.00	0.00	0.00	0.00			
55	C	518205.52	231344.87	1.80	30.00	0.00	0.00	0.00			
56	C	518201.18	231339.97	1.80	210.00	0.00	0.00	0.00			
57	C	518229.30	231383.75	1.80	220.00	0.00	0.00	0.00			
58	C	518234.88	231387.50	1.80	35.00	0.00	0.00	0.00			
59	C	518223.49	231382.81	1.80	310.00	0.00	0.00	0.00			
60	C	518218.05	231378.50	1.80	310.00	0.00	0.00	0.00			
61	C	518213.57	231374.94	1.80	310.00	0.00	0.00	0.00			
62	C	518207.36	231369.93	1.80	310.00	0.00	0.00	0.00			
63	C	518203.34	231366.76	1.80	310.00	0.00	0.00	0.00			
64	C	518197.08	231361.85	1.80	310.00	0.00	0.00	0.00			
65	C	518194.02	231354.04	1.80	310.00	0.00	0.00	0.00			
66	C	518217.78	231388.68	1.80	130.00	0.00	0.00	0.00			
67	C	518214.72	231386.20	1.80	130.00	0.00	0.00	0.00			
68	C	518207.60	231380.49	1.80	130.00	0.00	0.00	0.00			
69	C	518204.46	231378.06	1.80	130.00	0.00	0.00	0.00			
70	C	518197.34	231372.33	1.80	130.00	0.00	0.00	0.00			
71	C	518194.13	231369.79	1.80	130.00	0.00	0.00	0.00			
72	C	518191.98	231360.11	1.80	130.00	0.00	0.00	0.00			
73	C	518180.74	231347.00	1.80	290.00	0.00	0.00	0.00			
74	C	518176.09	231351.13	1.80	110.00	0.00	0.00	0.00			
75	C	518181.96	231332.17	1.80	110.00	0.00	0.00	0.00			
76	C	518188.82	231334.95	1.80	110.00	0.00	0.00	0.00			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
77	C	518185.47	231324.61	1.80	290.00	0.00	0.00	0.00			
78	C	518192.76	231327.49	1.80	290.00	0.00	0.00	0.00			
79	C	518206.23	231327.32	1.80	210.00	0.00	0.00	0.00			
80	C	518209.47	231321.90	1.80	210.00	0.00	0.00	0.00			
81	C	518215.38	231330.56	1.80	30.00	0.00	0.00	0.00			
82	C	518216.71	231328.48	1.80	30.00	0.00	0.00	0.00			
83	C	518224.16	231315.64	1.80	30.00	0.00	0.00	0.00			
84	C	518214.70	231312.95	1.80	210.00	0.00	0.00	0.00			
85	C	518198.59	231308.38	1.80	115.00	0.00	0.00	0.00			
86	C	518195.06	231307.02	1.80	115.00	0.00	0.00	0.00			
87	C	518189.70	231304.81	1.80	115.00	0.00	0.00	0.00			
88	C	518191.43	231296.81	1.80	290.00	0.00	0.00	0.00			
89	C	518195.87	231298.42	1.80	290.00	0.00	0.00	0.00			
90	C	518201.13	231300.55	1.80	290.00	0.00	0.00	0.00			
91	C	518184.01	231289.32	1.80	290.00	0.00	0.00	0.00			
92	C	518179.69	231297.93	1.80	115.00	0.00	0.00	0.00			
93	C	518169.06	231291.93	1.80	120.00	0.00	0.00	0.00			
94	C	518163.17	231288.68	1.80	120.00	0.00	0.00	0.00			
95	C	518165.58	231279.05	1.80	300.00	0.00	0.00	0.00			
96	C	518174.73	231284.30	1.80	300.00	0.00	0.00	0.00			
97	C	518152.10	231268.15	1.80	315.00	0.00	0.00	0.00			
98	C	518137.77	231256.57	1.80	315.00	0.00	0.00	0.00			
99	C	518132.01	231262.90	1.80	130.00	0.00	0.00	0.00			
100	C	518149.95	231277.83	1.80	130.00	0.00	0.00	0.00			

Illuminance (lux)

PSER 001 - Boundary Trees

[illegible]

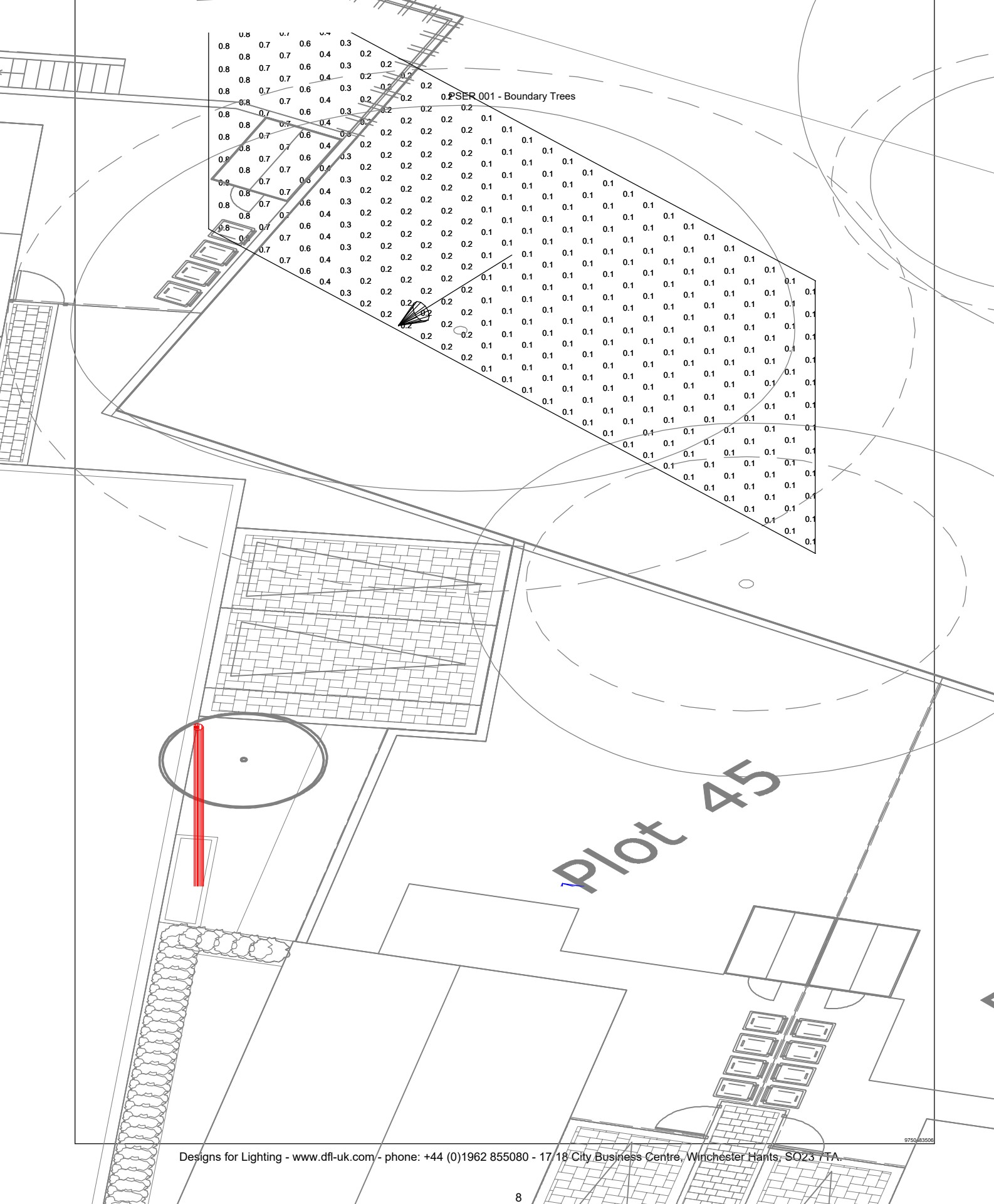
Results

Eav	0.03
Emin	0.00
Emax	0.39
Emin/Emax	0.00
Emin/Eav	0.00

Vertical Illuminance (lux)

Observer direction = 0 deg. Height = 0.00

PSER 001 - Boundary Trees

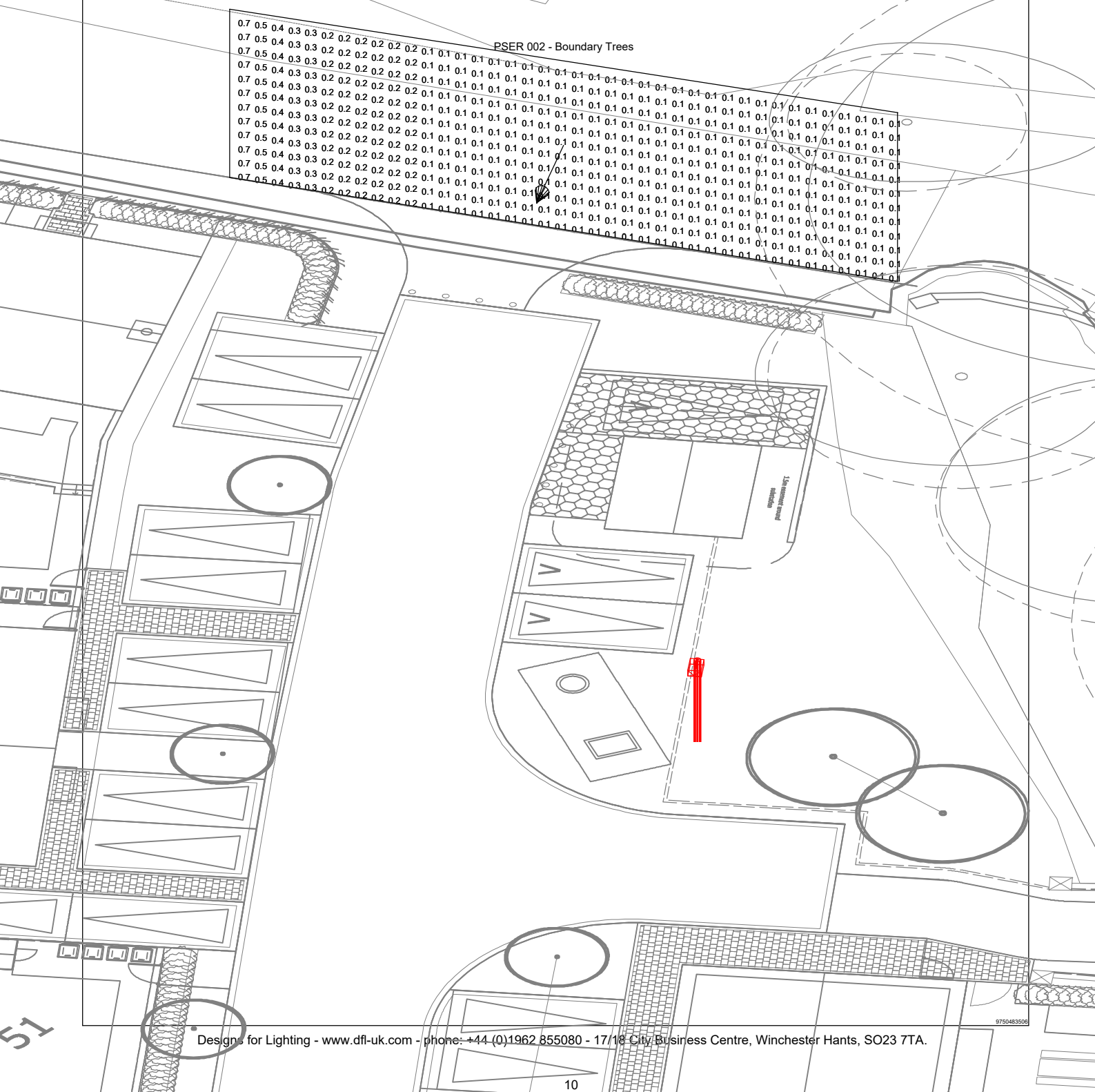


PSER 002 - Boundary Trees

[illegible]

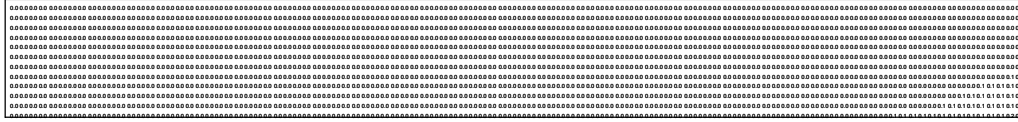
Eav	0.01
Emin	0.00
Emax	0.05
Emin/Emax	0.00
Emin/Eav	0.00

PSER 002 - Boundary Trees



Illuminance (lux)

PSER 003 - Boundary Trees



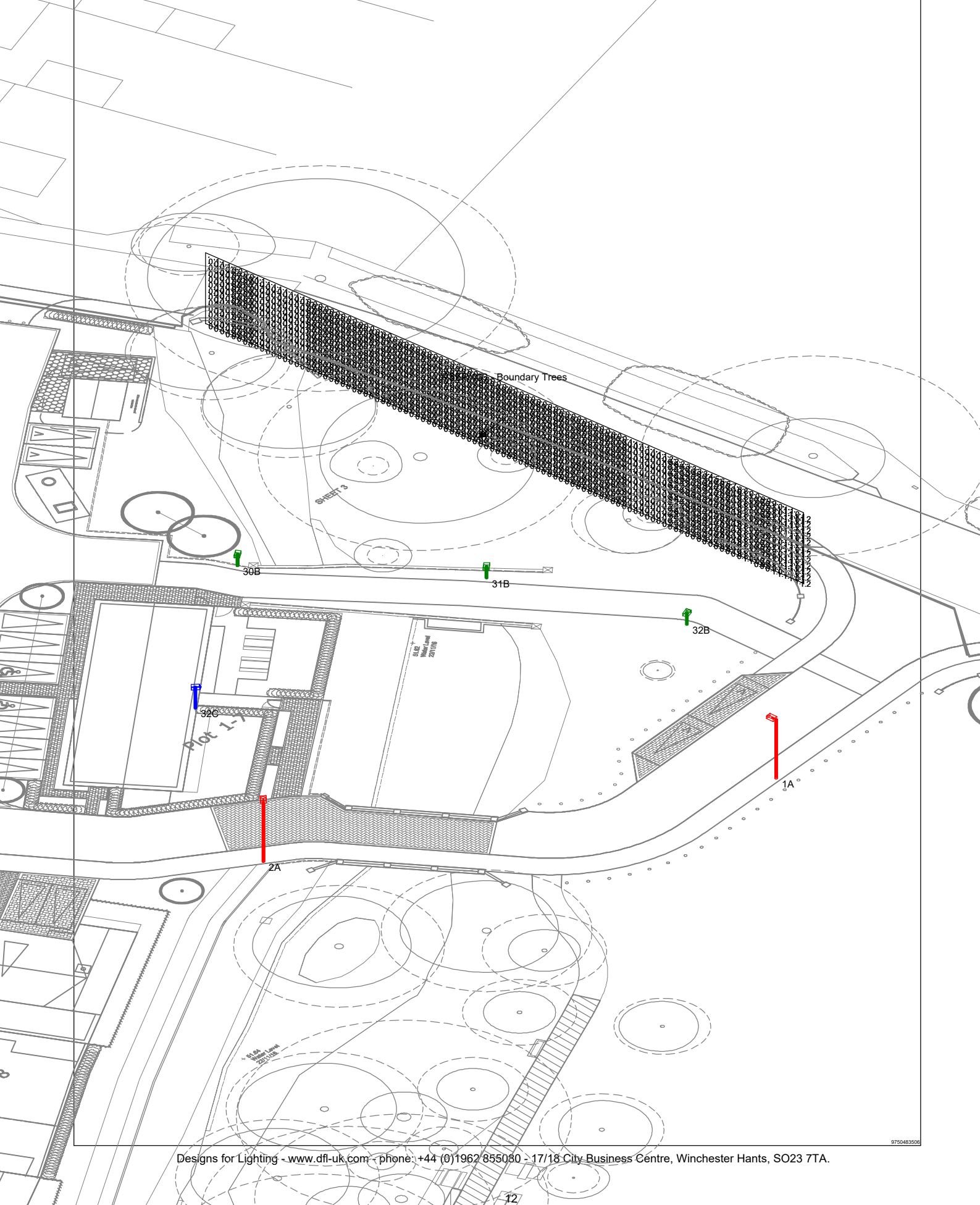
Results

Eav	0.01
Emin	0.00
Emax	0.20
Emin/Emax	0.00
Emin/Eav	0.00

Vertical Illuminance (lux)

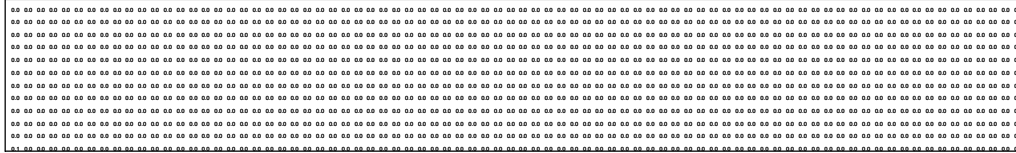
Observer direction = 0 deg. Height = 0.00

PSER 003 - Boundary Trees



Illuminance (lux)

PSER 004 - Boundary Trees



Results

Eav	0.01
Emin	0.00
Emax	0.05
Emin/Emax	0.00
Emin/Eav	0.00

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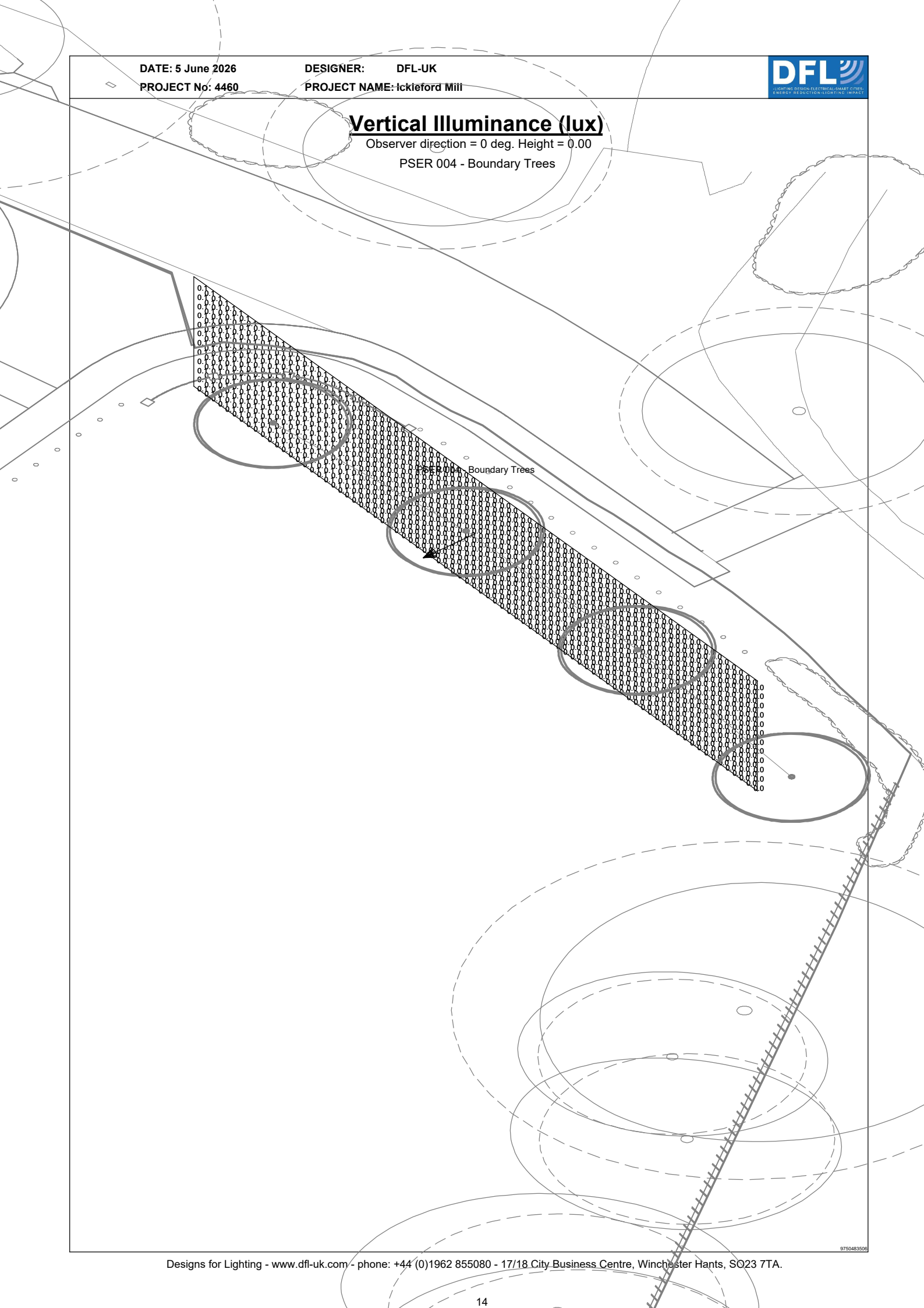
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Vertical Illuminance (lux)

Observer direction = 0 deg. Height = 0.00

PSER 004 - Boundary Trees



Illuminance (lux)

PSER 005 - Boundary Trees

[illegible]

Results

Eav	0.04
Emin	0.00
E _{max}	0.39
Emin/E _{max}	0.00
Emin/Eav	0.00

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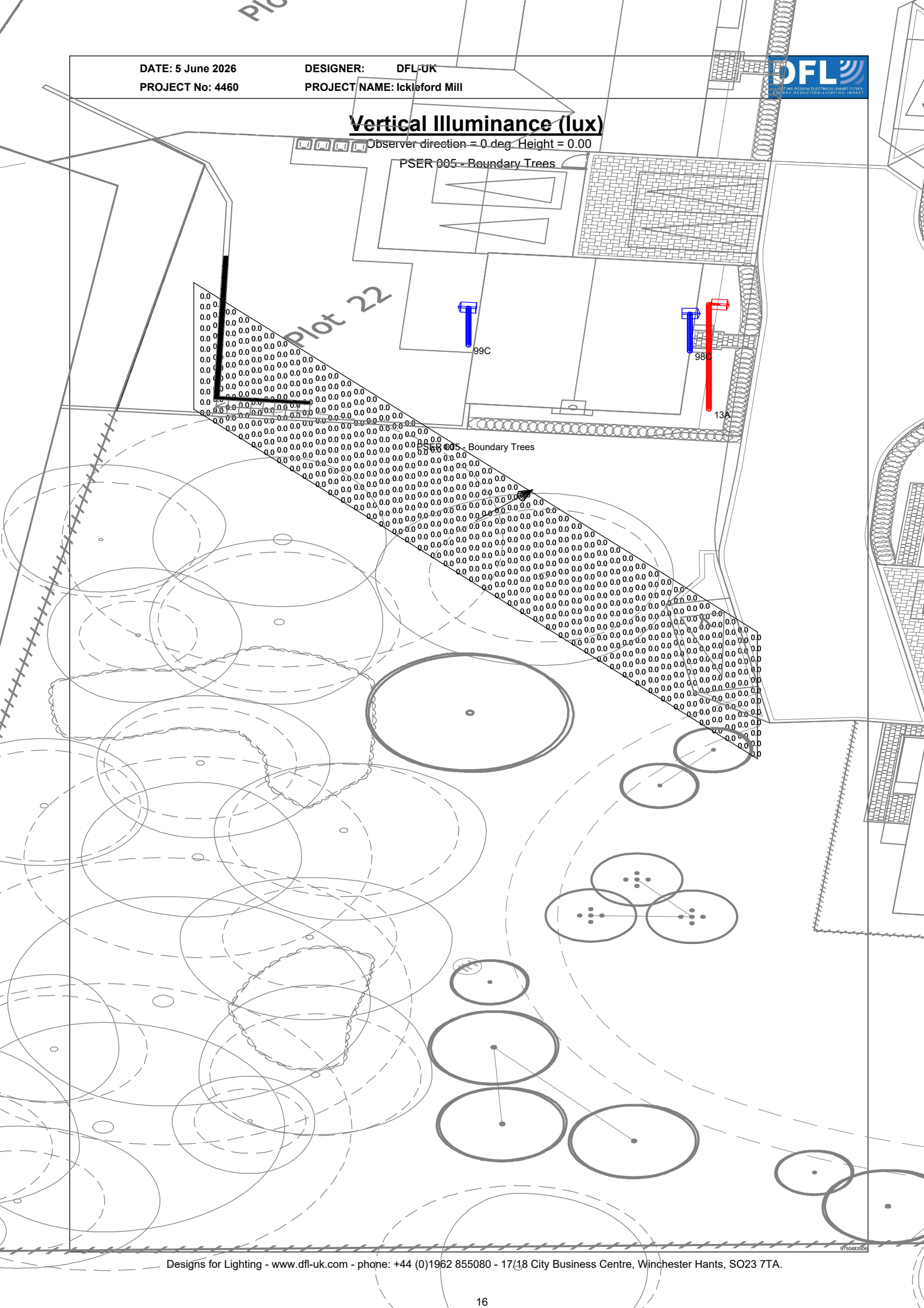
DESIGNER: DFL-UK
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Vertical Illuminance (lux)

Observer direction = 0 deg Height = 0.00

PSER 005 - Boundary Trees



Illuminance (lux)

PSER 006 - Boundary Trees

[illegible]

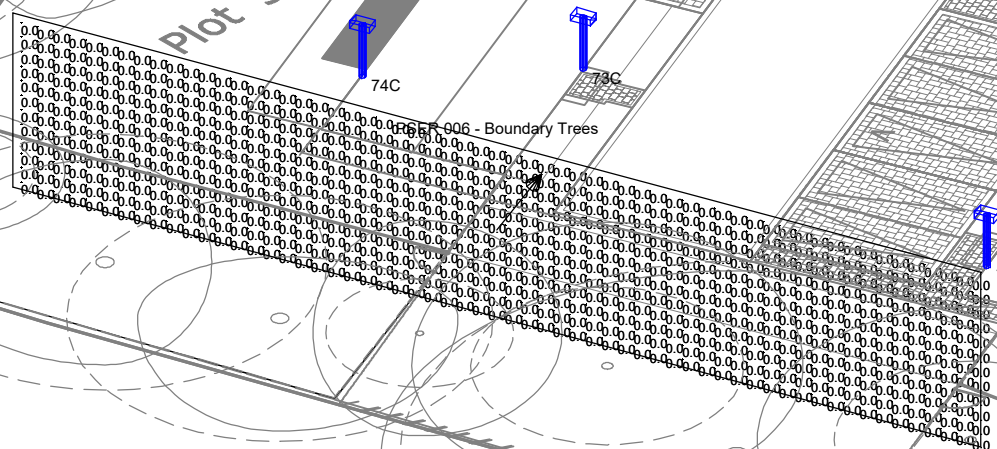
Results

Eav	0.04
Emin	0.00
Emax	0.40
Emin/Emax	0.00
Emin/Eav	0.00

Vertical Illuminance (lux)

Observer direction = 0 deg. Height = 0.00

PSER 006 - Boundary Trees



SHEET 3

Illuminance (lux)

PSER 007 - River Oughton



Results

Eav	0.02
Emin	0.00
Emax	0.23
Emin/Emax	0.00
Emin/Eav	0.00

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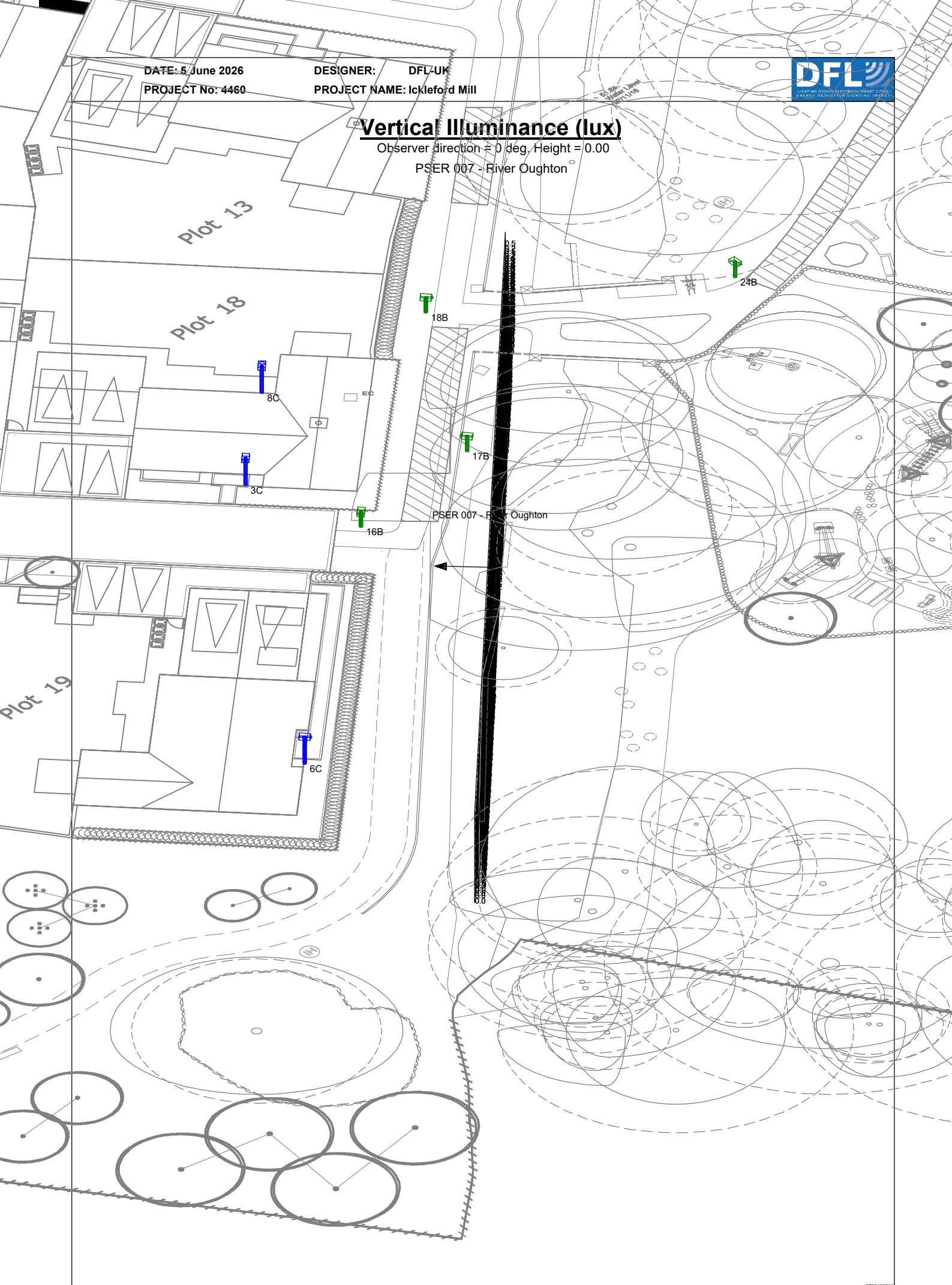
DESIGNER: DFL-UK
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Vertical Illuminance (lux)

Observer direction = 0 deg. Height = 0.00

PSER 007 - River Oughton



Illuminance (lux)

PSER 007 - River Oughton

[illegible]

Results

Eav	0.03
Emin	0.00
Emax	0.27
Emin/Emax	0.00
Emin/Eav	0.00

Plot 12

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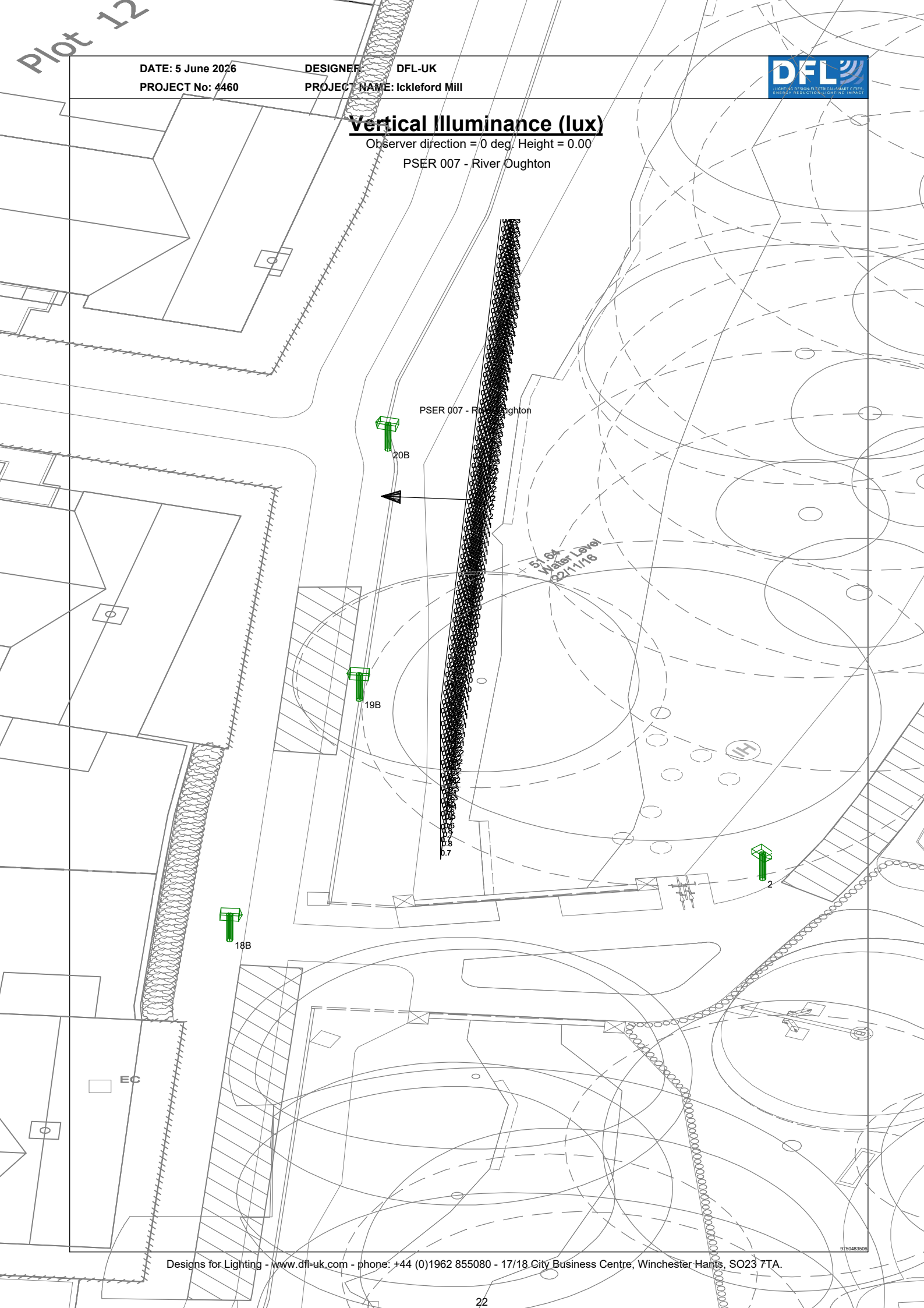
DESIGNER: DFL-UK
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Vertical Illuminance (lux)

Observer direction = 0 deg. Height = 0.00

PSER 007 - River Oughton



Illuminance (lux)

PSER 007 - River Oughton

[illegible]

Results

Eav	0.01
Emin	0.00
E _{max}	0.22
Emin/E _{max}	0.00
Emin/Eav	0.00

DATE: 5 June 2026
PROJECT No: 4460

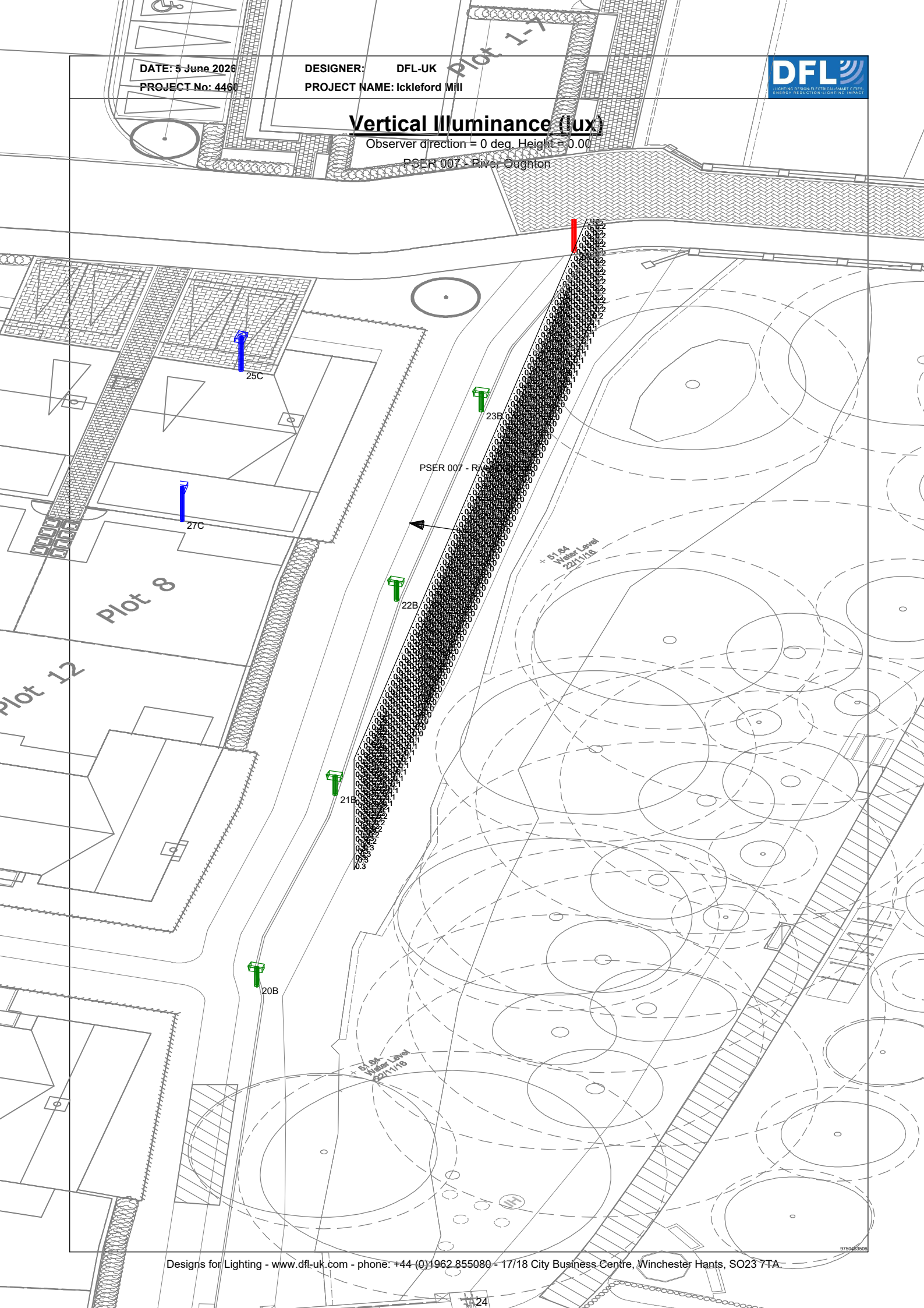
DESIGNER: DFL-UK
PROJECT NAME: Ickleford Mill



Vertical Illuminance (lux)

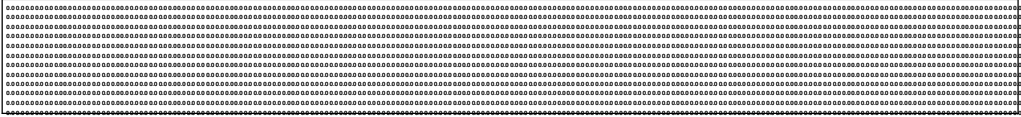
Observer direction = 0 deg. Height = 0.00

PSER 007 - River Oughton



Illuminance (lux)

PSER 007 - River Oughton



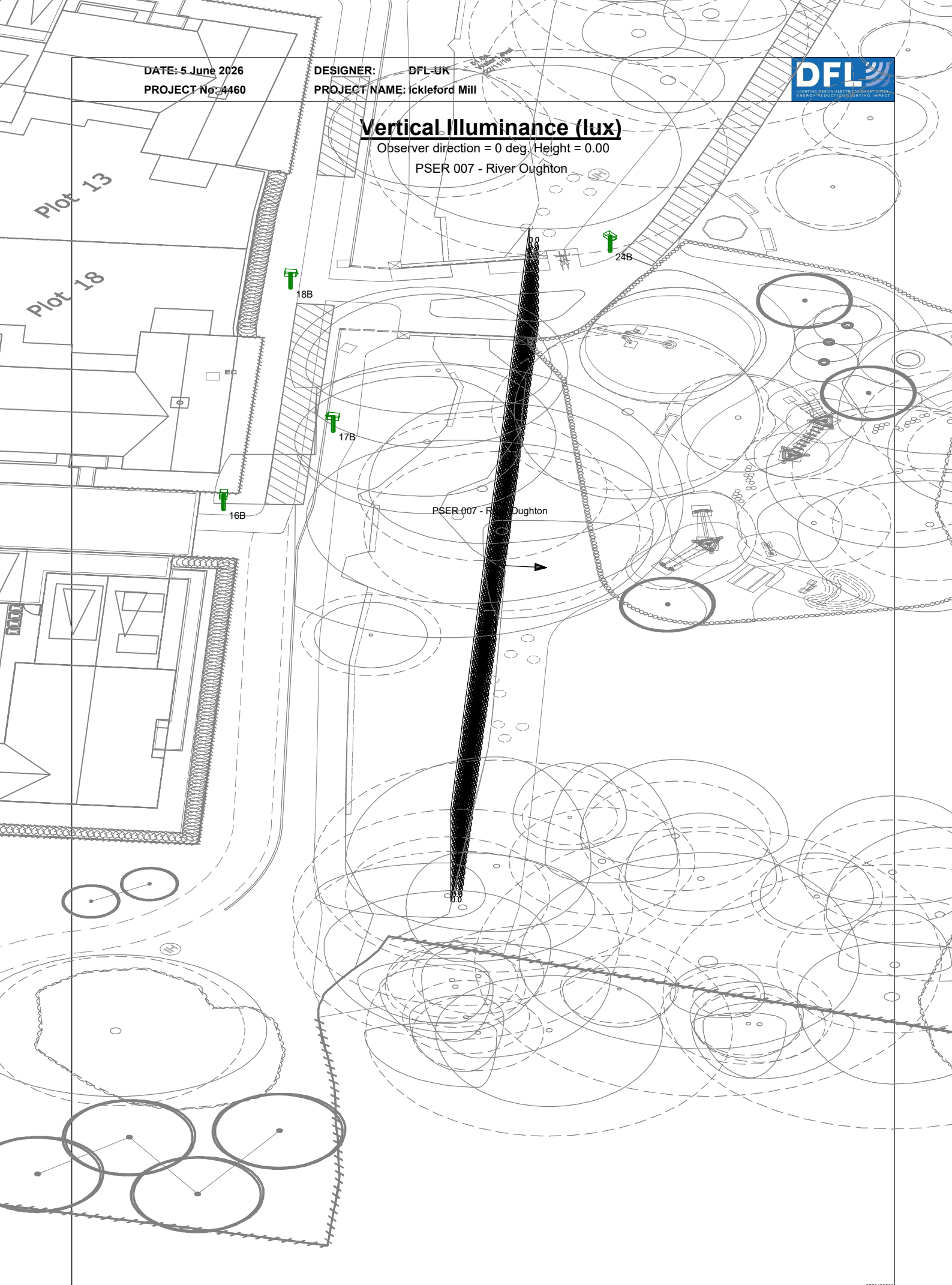
Results

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

Vertical Illuminance (lux)

Observer direction = 0 deg. Height = 0.00

PSER 007 - River Oughton



Illuminance (lux)

PSER 007 - River Oughton



Results

Eav	0.00
Emin	0.00
Emax	0.07
Emin/Emax	0.00
Emin/Eav	0.00

DATE: 5 June 2026
PROJECT No: 4460

DESIGNER: DFL-UK
PROJECT NAME:ickleford Mill



Vertical Illuminance (lux)

Observer direction = 0 deg. Height = 0.00

PSER 007 - River Oughton



Illuminance (lux)

PSER 007 - River Oughton

[illegible]

Results

Eav	0.26
Emin	0.00
Emax	5.75
Emin/Emax	0.00
Emin/Eav	0.00

DATE: 5 June 2026
PROJECT No: 4460

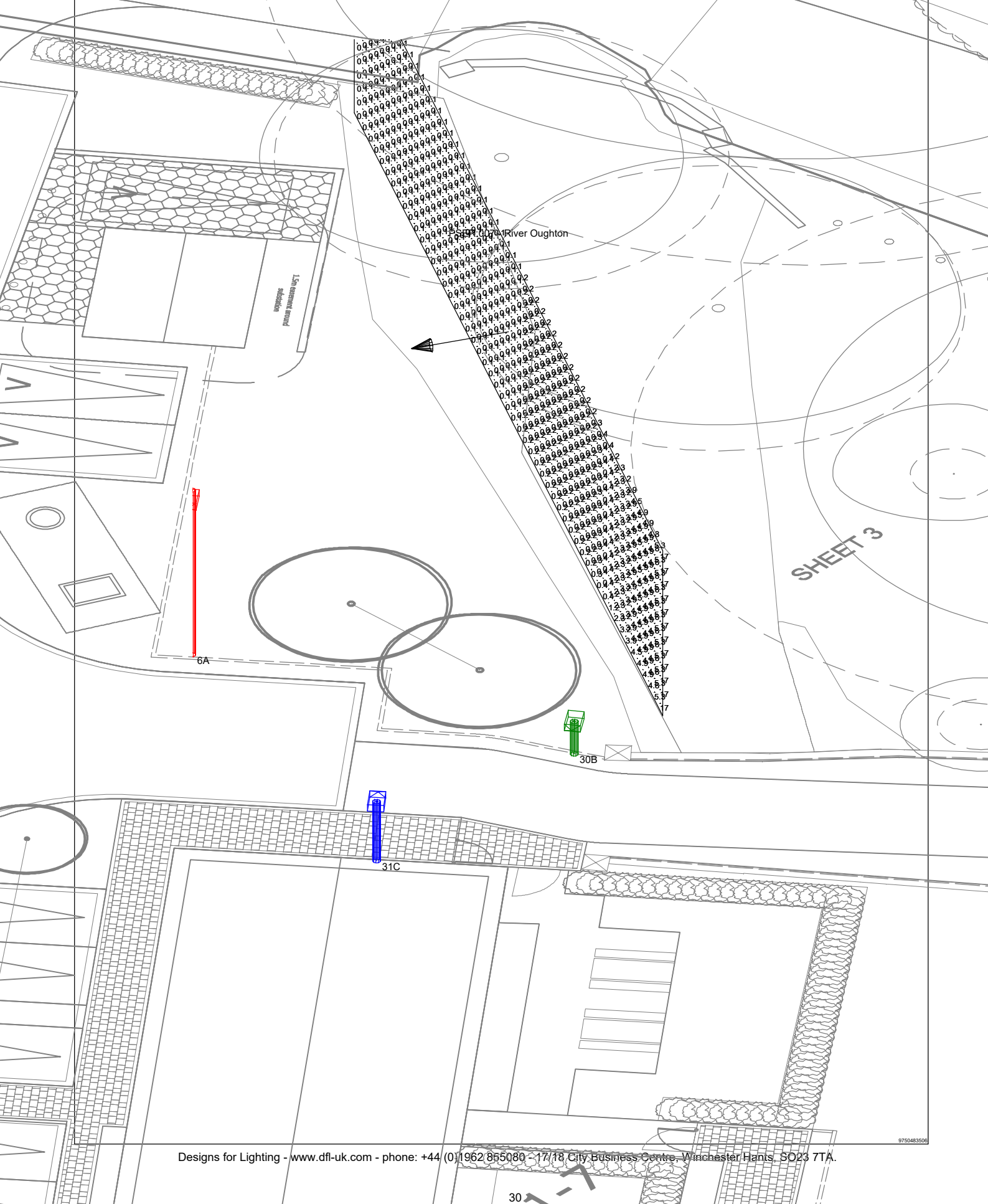
DESIGNER: DFL-UK
PROJECT NAME: Ickleford Mill



Vertical Illuminance (lux)

Observer direction = 0 deg. Height = 0.00

PSER 007 - River Oughton



Illuminance (lux)

PSER 007 - River Oughton

[illegible]

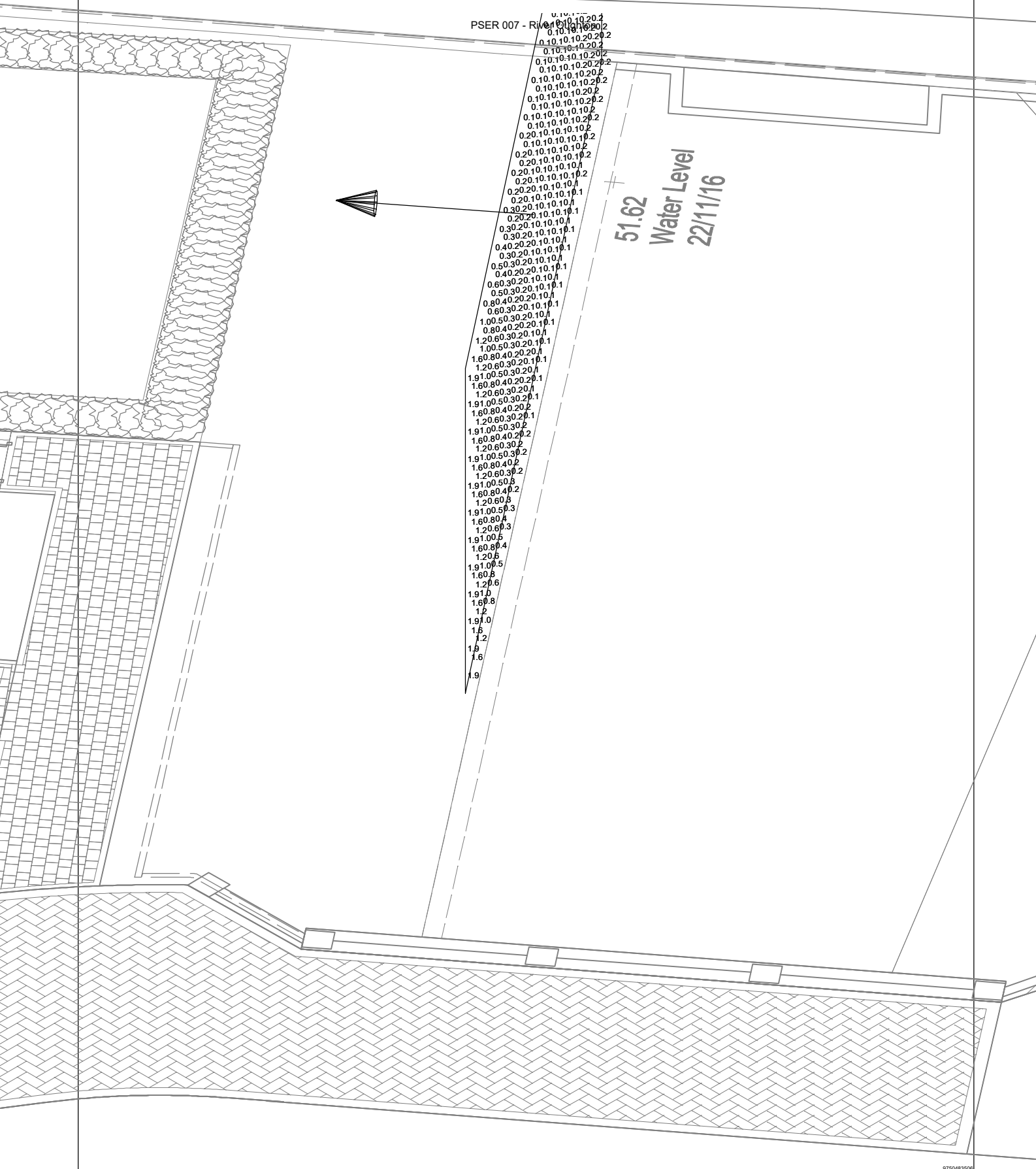
Results

Eav	0.03
Emin	0.00
Emax	0.22
Emin/Emax	0.00
Emin/Eav	0.00

Vertical Illuminance (lux)

Observer direction = 0 deg. Height = 0.00

PSER 007 - River Oughton



Illuminance (lux)

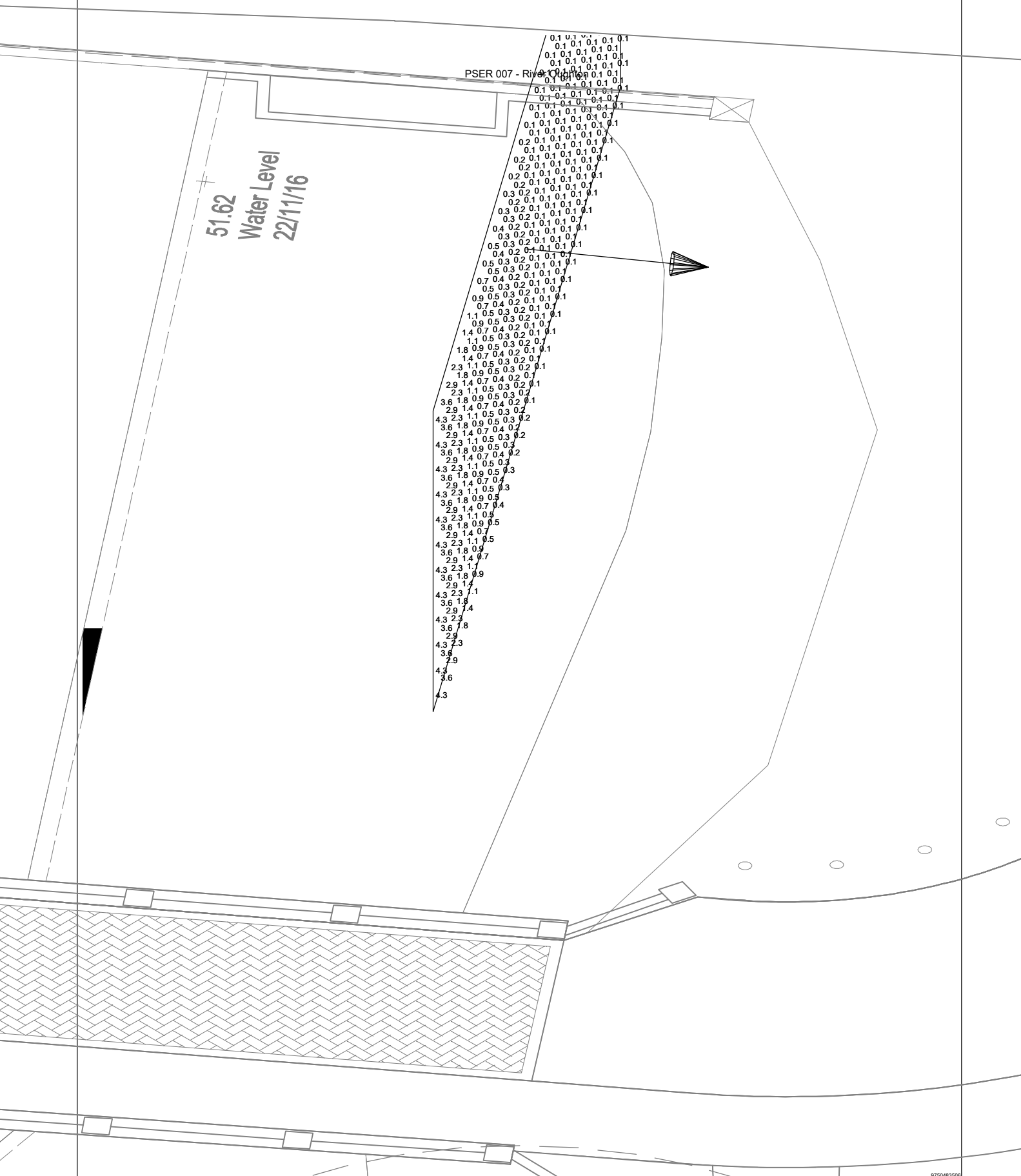
PSER 007 - River Oughton

[illegible]

Results

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

PSER 007 - River Oughton



Illuminance (lux)

PSER 006 - Trees Beside River Oughton



Results

Eav	0.01
Emin	0.00
Emax	0.04
Emin/Emax	0.00
Emin/Eav	0.00

DATE: 5 June 2026
PROJECT NUMBER: 14480

DESIGNER: DFL-UK
PROJECT NAME: Ickleford Mill



Vertical Illuminance (lux)

Observer direction = 0 deg. Height = 0.00

PSER 006 - Trees Beside River Oughton

