

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



Location: Ickleford Mill
Environmental Zone: E2
Design Class: P5
Eave: 3.00 - 4.50 Lux
Emin: 0.60 Lux
Lighting classes as per BS5489-1:2020, the lighting levels for which
are taken from EN 13201-2:2015

4460-DFL-HLG-XX-CA-EO-13001-S3-P02

PREPARED BY: Connor MacDonald BA (HONS) IEng MIET
Senior Lighting Engineer
+44 (0)1962 855080
17/18 City Business Centre,
Winchester Hants,
SO23 7TA.
e-mail: connor.macdonald@dfi-uk.com
website: www.dfi-uk.com

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 - P5	518288.37	231217.23	89.35	119.10	1.49	1.49
2	Grid 2 - P5	518196.44	231300.10	79.63	67.94	1.47	1.48
3	Grid 3 - P5	518117.41	231226.48	135.89	20.35	1.49	1.45
4	Grid 4 - P5	518198.52	231248.16	20.43	32.95	1.46	1.50
5	Grid 5 - P5	518161.13	231210.26	25.81	40.51	1.43	1.45
6	Grid 6 - For Wayfinding & ...	518203.01	231165.94	118.41	69.61	0.50	0.50
7	Grid 7 - For Wayfinding & ...	518298.50	231259.28	17.33	51.87	0.50	0.50

Luminaires

Luminaire A Data



Supplier	Urbis Schreder
Type	AXIA 3.1 5384 Integrated lenses Back Light 1 6 OSLO SQUARE GI
Lamp(s)	16 OSLO 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 OSLO SQUARE GIANT 3 00mA WW 727 16.1W 487532 Integrated le...
Maintenance Factor	0.76
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	0.59
Imax70,80,90(cd/klm)	611.9, 139.2, 0.0
No. in Project	17

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	518262.09	231276.33	5.00	43.00	0.00	0.00	0.40			
3	A	518243.86	231294.90	5.00	33.00	0.00	0.00	0.40			
4	A	518225.51	231318.13	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	518282.18	231312.38	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	518221.30	231364.40	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	518134.99	231252.85	5.00	309.00	0.00	0.00	0.40			
14	A	518197.11	231265.32	5.00	29.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
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			

Horizontal Illuminance (lux)

Grid 1 - P5



Results

Eav	3.10
Emin	0.61
Emax	5.85
Emin/Emax	0.10
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 2 - P5



Results

Eav	3.16
Emin	0.70
E _{max}	5.07
Emin/E _{max}	0.14
Emin/Eav	0.22

Horizontal Illuminance (lux)

Grid 3 - P5



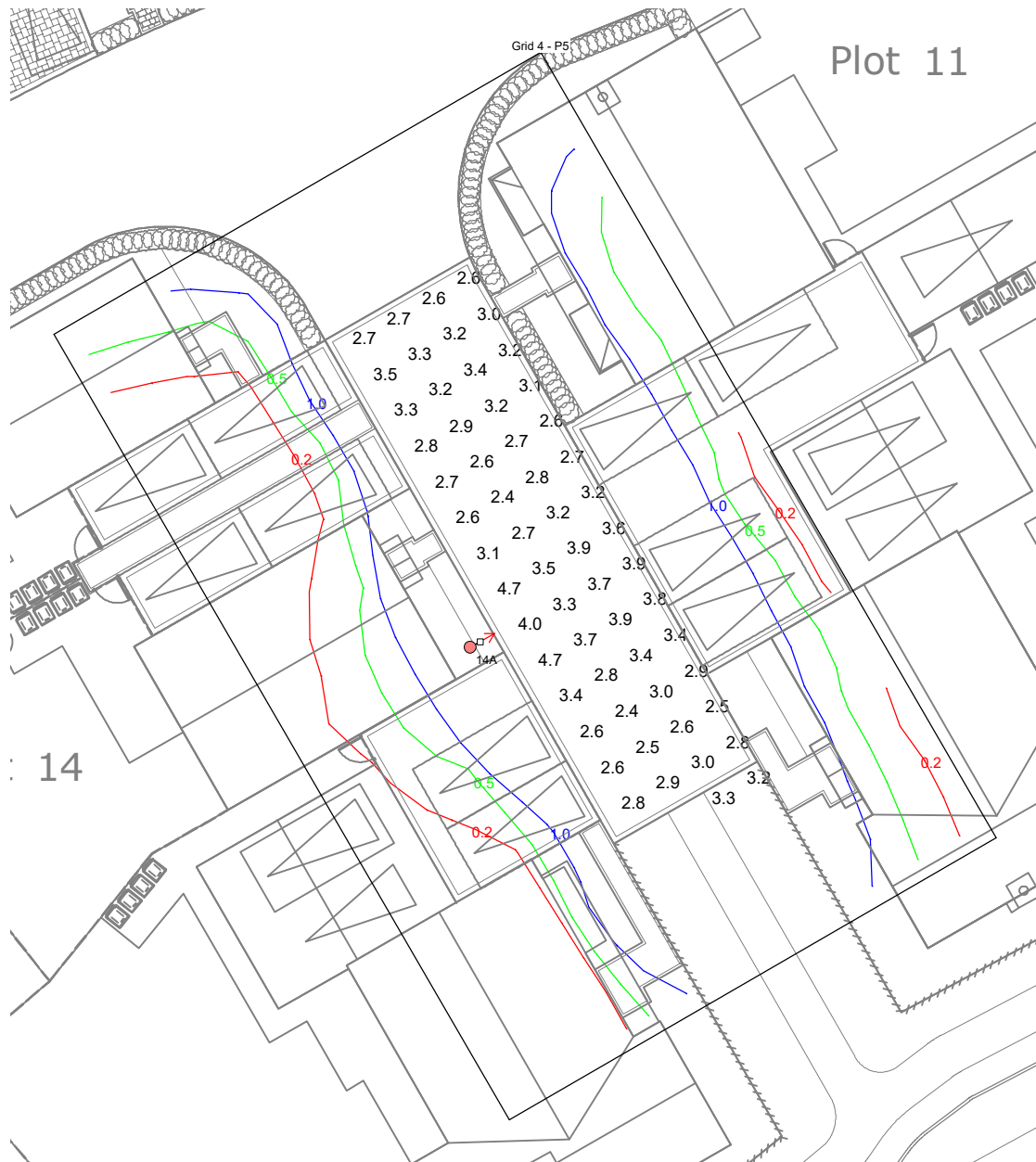
Results

Eav	3.01
Emin	0.63
Emax	4.85
Emin/Emax	0.13
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 4 - P5

Plot 11

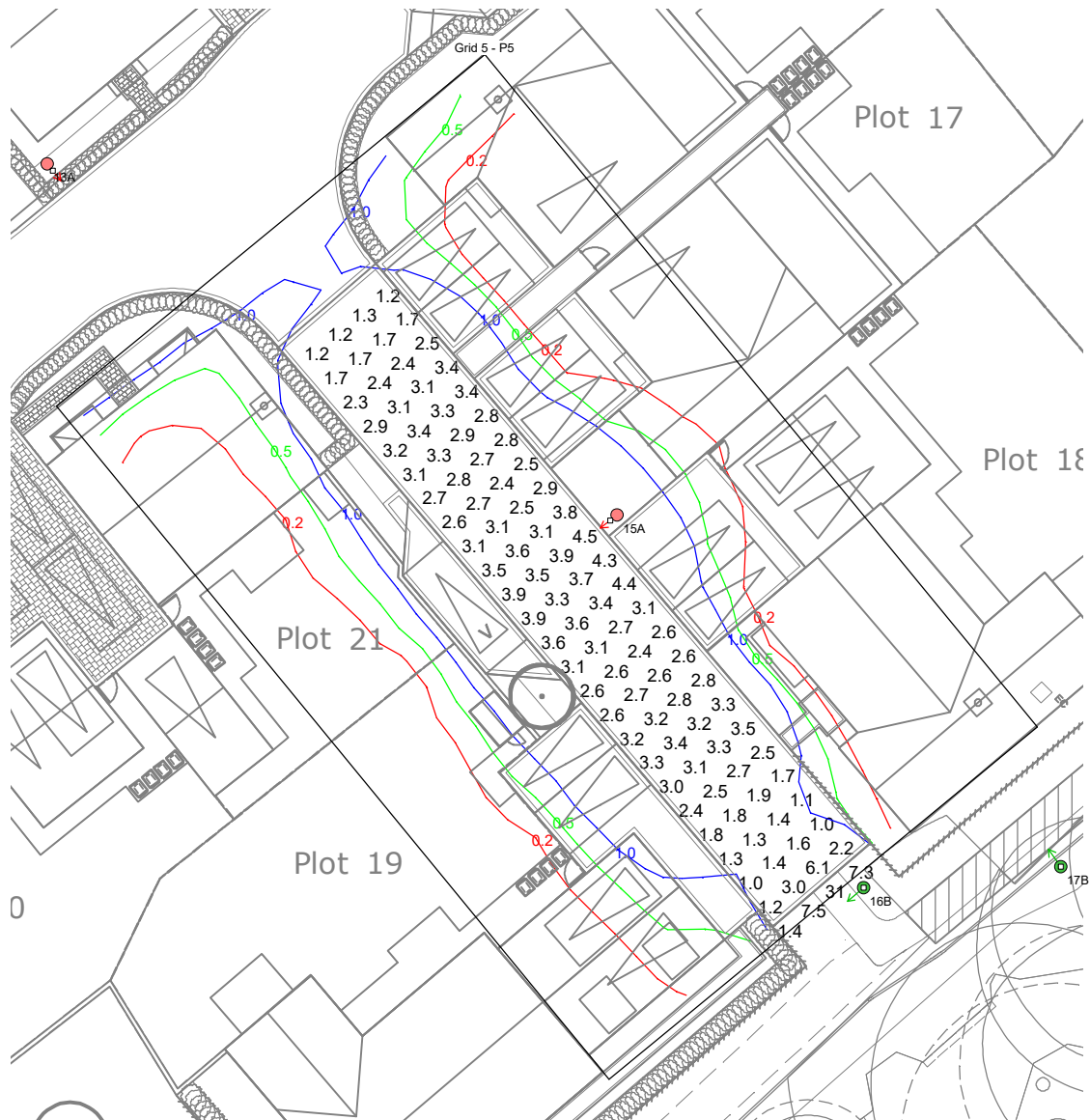


Results

Eav	3.12
Emin	2.41
Emax	4.73
Emin/Emax	0.51
Emin/Eav	0.77

Horizontal Illuminance (lux)

Grid 5 - P5



Results

Eav	3.10
Emin	1.02
Emax	30.72
Emin/Emax	0.03
Emin/Eav	0.33

Horizontal Illuminance (lux)

Grid 6 - For Wayfinding & Safety Purpose

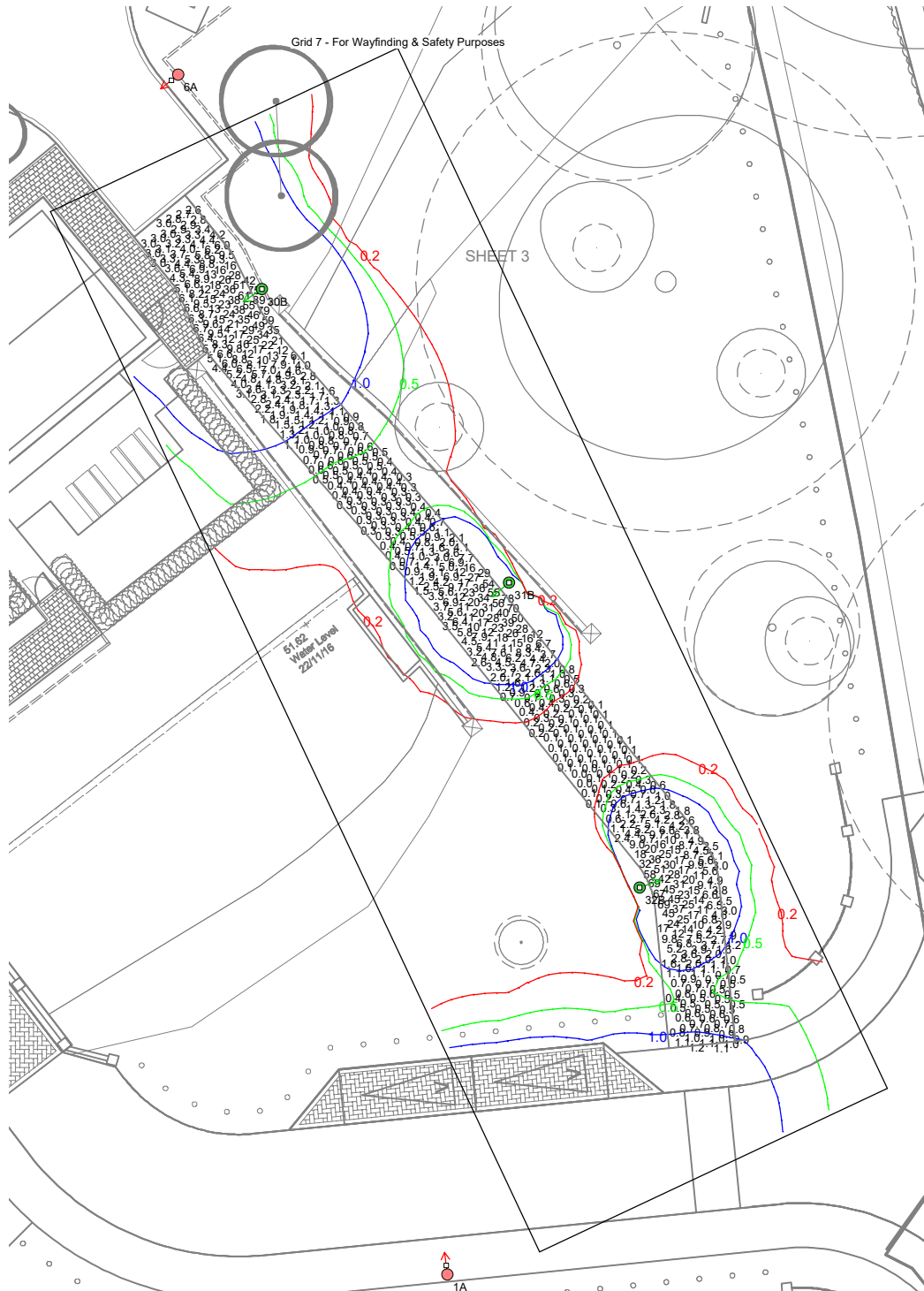


Results

Eav	8.15
Emin	0.00
Emax	81.19
Emin/Emax	0.00
Emin/Eav	0.00

Horizontal Illuminance (lux)

Grid 7 - For Wayfinding & Safety Purposes



Results

Eav	7.78
Emin	0.04
Emax	89.28
Emin/Emax	0.00
Emin/Eav	0.01