

DATE: 14 March 2025
DESIGNER: WLC
PROJECT No: WLC1233
PROJECT NAME: Land at Bridge Farm, Twyford



CALCULATION FOR PLANNING PURPOSES ONLY.

THE PROPOSALS HAVE BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE FOLLOWING TARGET LIGHTING CLASS(ES): P4 (SPINE ROAD) P5 (MINOR ROADS) IN ACCORDANCE WITH BS 5489:2020

LEVELS ACHIEVED:
REFER TO INDIVIDUAL GRID WITHIN REPORT.

WLC1233-LC-AC-001 R1

PREPARED BY: Williams Lighting Consultants Ltd.
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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	478200.69	176688.91	240.00	102.00	1.50	1.50
2	Grid 2	478300.43	176733.52	42.00	105.00	1.50	1.50
3	Grid 3	478230.89	176710.44	45.00	117.00	1.50	1.50
4	Grid 4	478289.59	176776.90	136.25	126.00	1.50	1.50
5	Grid 5	478375.10	176535.01	132.00	160.00	1.50	1.50
6	Grid 6	478410.95	176479.10	129.00	91.42	1.50	1.50
7	Grid 7	478145.26	176650.12	102.00	87.00	1.50	1.50

Luminaires

Luminaire A Data



Supplier	D W Windsor
Type	Lancaster Street-32LED-3k- C2 200mA UM SUG 42 0022 0000 100
Lamp(s)	32 x 3k LED
Lamp Flux (klm)	2.51
File Name	Lancaster Street-32LED-3k- C2_200mA UM SUG 42 0022 0000 100.ies
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	941.9, 124.4, 31.9
No. in Project	10

Luminaire B Data



Supplier	D W Windsor
Type	Lancaster Street-32LED-3k- C2 400mA UM SUG 42 0041 0000 100
Lamp(s)	32 x 3k LED
Lamp Flux (klm)	4.78
File Name	Lancaster Street-32LED-3k- C2_400mA UM SUG 42 0041 0000 100.ies
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	941.8, 124.4, 31.9
No. in Project	8

Luminaire C Data



Supplier	D W Windsor
Type	Lancaster 16LED 3k A2 500mA UMSUG 42 0022 0000 100
Lamp(s)	16x3k
Lamp Flux (klm)	1.62
File Name	Lancaster 16LED 3k A2_500mA UMSUG 4 2 0022 0000 100.ies
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	644.0, 113.7, 38.5
No. in Project	32

Luminaire D Data



Supplier	D W Windsor
Type	Lancaster 16LED 3k A2 400mA UMSUG 42 0017 0000 100
Lamp(s)	16x3k
Lamp Flux (klm)	1.34
File Name	Lancaster 16LED 3k A2_400mA UMSUG 4 2 0017 0000 100.ies
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	644.2, 113.8, 38.5
No. in Project	6

Luminaires



Luminaire E Data

Supplier	D W Windsor
Type	Lancaster 16LED 3k A2 800mA UMSUG 42 0035 0000 100
Lamp(s)	16x3k
Lamp Flux (klm)	2.36
File Name	Lancaster 16LED 3k A2_800mA UMSUG 4 2 0035 0000 100.ies
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	644.1, 113.7, 38.5
No. in Project	3

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	478322.43	176758.47	5.00	203.00	0.00	0.00	0.00			
2	A	478311.37	176784.44	5.00	203.00	0.00	0.00	0.00			
3	A	478288.26	176803.36	5.00	26.00	0.00	0.00	0.00			
4	D	478282.93	176828.23	5.00	298.00	0.00	0.00	0.00			
5	D	478262.43	176808.10	5.00	121.00	0.00	0.00	0.00			
6	C	478309.18	176833.70	5.00	125.00	0.00	0.00	0.00			
7	D	478246.77	176796.42	5.00	148.00	0.00	0.00	0.00			
8	D	478243.60	176776.96	5.00	203.00	0.00	0.00	0.00			
9	D	478252.89	176754.69	5.00	203.00	0.00	0.00	0.00			
10	D	478262.15	176732.83	5.00	203.00	0.00	0.00	0.00			
11	C	478331.36	176848.15	5.00	125.00	0.00	0.00	0.00			
12	C	478356.16	176863.95	5.00	124.00	0.00	0.00	0.00			
13	C	478372.56	176884.67	5.00	292.00	0.00	0.00	0.00			
14	C	478388.96	176865.13	5.00	27.00	0.00	0.00	0.00			
15	C	478400.54	176837.62	5.00	23.00	0.00	0.00	0.00			
16	C	478410.82	176811.60	5.00	22.00	0.00	0.00	0.00			
17	A	478413.21	176789.51	5.00	173.00	0.00	0.00	0.00			
18	C	478212.18	176691.20	5.00	296.00	0.00	0.00	0.00			
19	C	478179.89	176672.67	5.00	116.00	0.00	0.00	0.00			
20	C	478155.31	176668.79	5.00	68.00	0.00	0.00	0.00			
21	C	478142.14	176697.80	5.00	9.00	0.00	0.00	0.00			
22	C	478136.41	176720.52	5.00	5.00	0.00	0.00	0.00			
23	C	478155.98	176736.75	5.00	296.00	0.00	0.00	0.00			
24	C	478440.08	176715.65	5.00	196.00	0.00	0.00	0.00			
25	C	478446.10	176691.79	5.00	198.00	0.00	0.00	0.00			
26	C	478446.49	176659.70	5.00	13.00	0.00	0.00	0.00			
27	C	478459.77	176638.62	5.00	195.00	0.00	0.00	0.00			
28	C	478466.74	176611.89	5.00	197.00	0.00	0.00	0.00			
29	C	478462.14	176586.88	5.00	327.00	0.00	0.00	0.00			
30	E	478411.86	176708.01	5.00	294.00	0.00	0.00	0.00			
31	E	478383.72	176696.16	5.00	294.00	0.00	0.00	0.00			
32	E	478356.77	176685.07	5.00	292.00	0.00	0.00	0.00			
33	A	478360.49	176668.02	5.00	201.00	0.00	0.00	0.00			
34	A	478371.73	176641.81	5.00	201.00	0.00	0.00	0.00			
35	A	478368.19	176612.87	5.00	20.00	0.00	0.00	0.00			
36	A	478388.77	176563.91	5.00	24.00	0.00	0.00	0.00			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
37	C	478414.84	176555.58	5.00	111.00	0.00	0.00	0.00			
38	C	478447.44	176569.39	5.00	114.00	0.00	0.00	0.00			
39	C	478399.35	176538.77	5.00	21.00	0.00	0.00	0.00			
40	C	478414.09	176507.57	5.00	46.00	0.00	0.00	0.00			
41	C	478444.74	176514.63	5.00	292.00	0.00	0.00	0.00			
42	C	478473.59	176518.54	5.00	270.00	0.00	0.00	0.00			
43	C	478500.16	176507.65	5.00	72.00	0.00	0.00	0.00			
44	C	478480.33	176538.22	5.00	7.00	0.00	0.00	0.00			
45	C	478473.66	176564.40	5.00	16.00	0.00	0.00	0.00			
46	B	478409.02	176766.01	5.00	116.00	0.00	0.00	0.00			
47	B	478376.03	176766.07	5.00	291.00	0.00	0.00	0.00			
48	B	478353.84	176742.69	5.00	113.00	0.00	0.00	0.00			
49	B	478319.71	176744.58	5.00	293.00	0.00	0.00	0.00			
50	B	478292.41	176732.75	5.00	292.00	0.00	0.00	0.00			
51	B	478269.69	176710.64	5.00	114.00	0.00	0.00	0.00			
52	B	478245.12	176700.67	5.00	111.00	0.00	0.00	0.00			
53	B	478213.34	176704.43	5.00	33.00	0.00	0.00	0.00			
55	C	478424.31	176765.10	5.00	221.00	0.00	0.00	0.00			
56	C	478433.52	176741.19	5.00	195.00	0.00	0.00	0.00			
56	A	478391.36	176594.45	5.00	201.00	0.00	0.00	0.00			
57	C	478380.75	176829.64	5.00	294.00	0.00	0.00	0.00			
58	A	478359.67	176819.51	5.00	294.00	0.00	0.00	0.00			
59	C	478344.82	176806.95	5.00	294.00	0.00	0.00	0.00			

Horizontal Illuminance (lux)

Grid 1

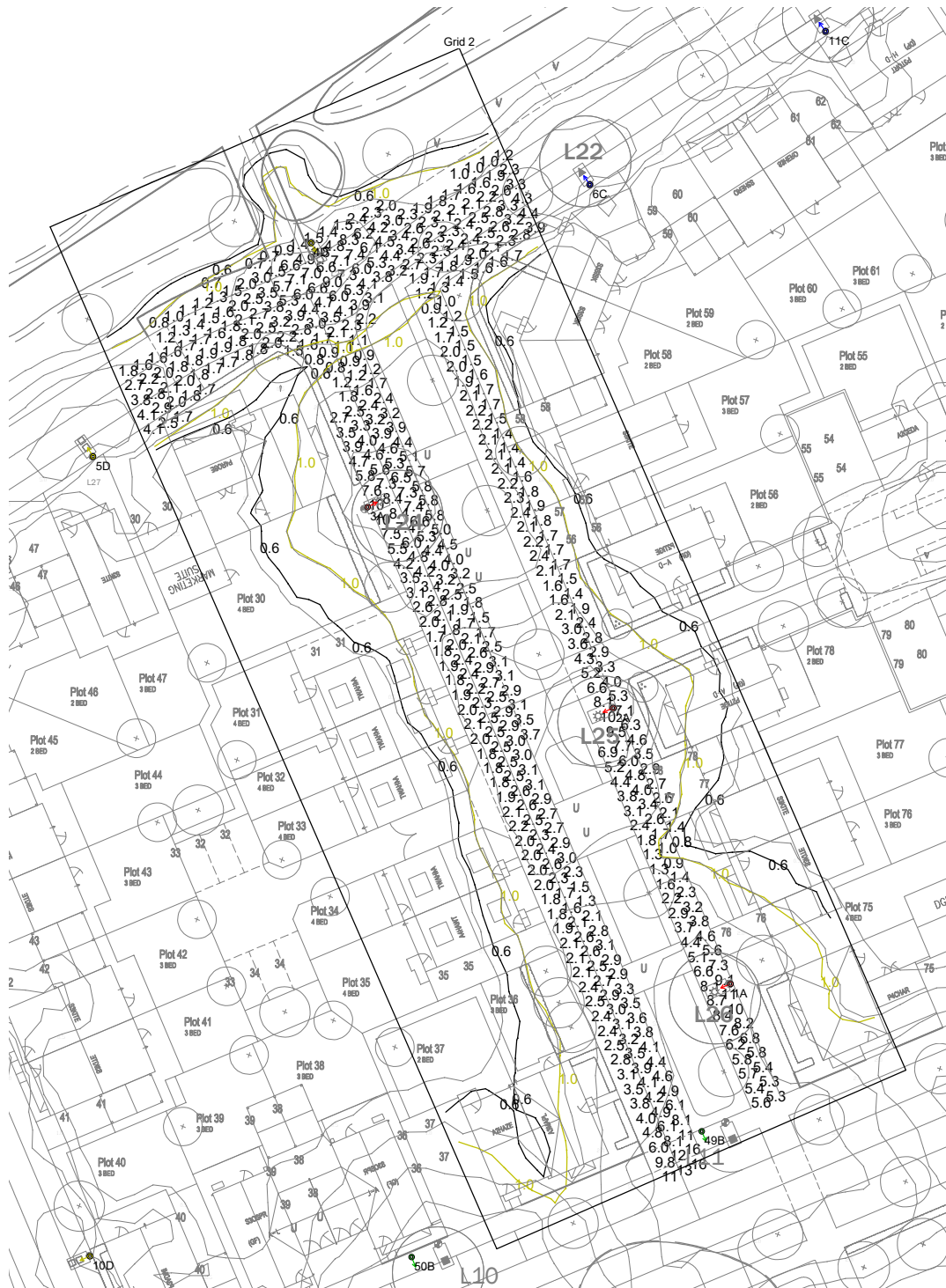


Results

Eav	5.79
Emin	1.03
Emax	21.56
Emin/Emax	0.05
Emin/Eav	0.18

Horizontal Illuminance (lux)

Grid 2

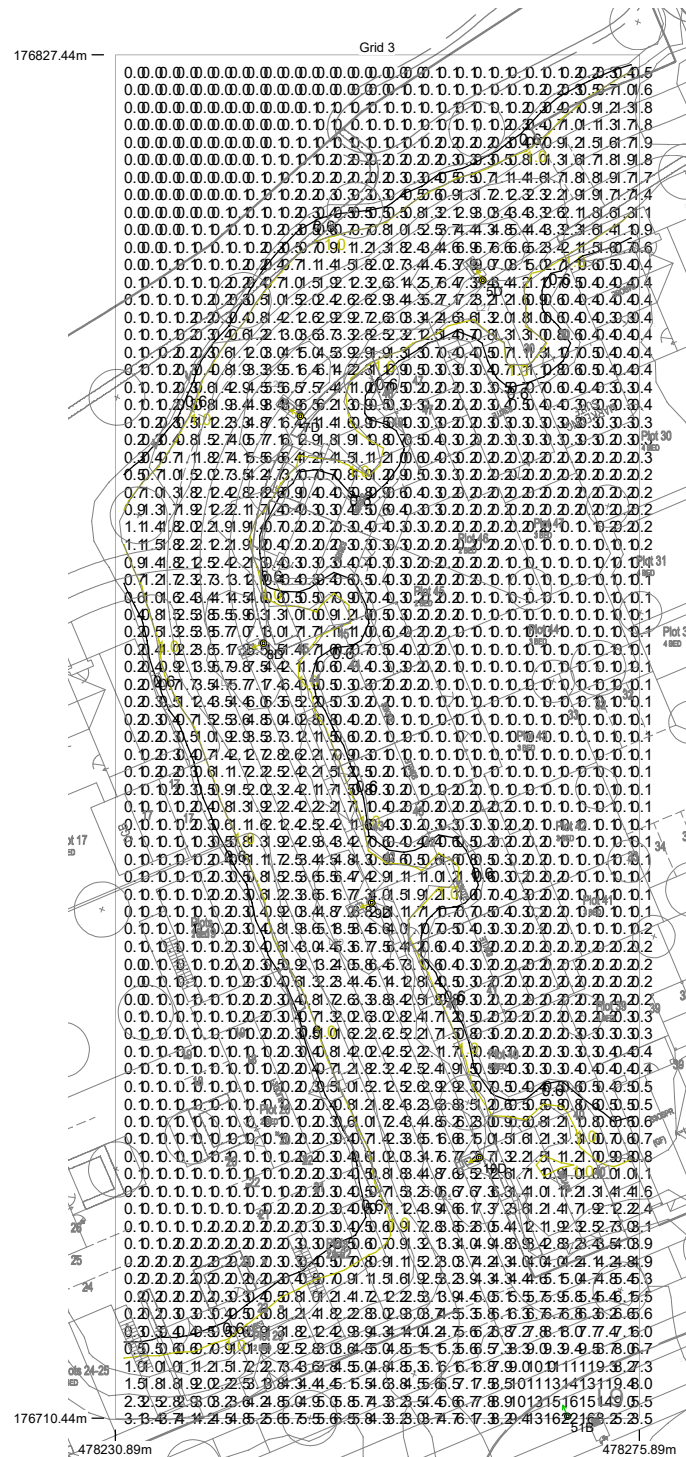


Results

Eav	3.34
Emin	0.61
Emax	15.70
Emin/Emax	0.04
Emin/Eav	0.18

Horizontal Illuminance (lux)

Grid 3



Results

Eav	1.51
Emin	0.01
Emax	21.53
Emin/Emax	0.00
Emin/Eav	0.01

Horizontal Illuminance (lux)

Grid 4



Results

Eav	1.14
Emin	0.02
Emax	17.62
Emin/Emax	0.00
Emin/Eav	0.01

Horizontal Illuminance (lux)

Grid 6



Results

Eav	1.14
Emin	0.02
Emax	17.62
Emin/Emax	0.00
Emin/Eav	0.01

