DATE:	**8 July 2026**
DESIGNER:	**J.K**
PROJECT No:	**0002473378**
PROJECT NAME:	**Bearwood Park**

Outdoor Lighting Report

This design drawing/information is for a lighting scheme which has been prepared for the client in collaboration with the client and other stakeholders and is based upon the pre-construction information provided. The lighting scheme should only be installed and maintained by competent persons and in accordance with the design drawing/information, application installation instructions and all applicable laws. No changes should be made to the design of the lighting scheme without formal written approval in advance from ZG Lighting (UK) limited, to ensure that any risks to health, safety and welfare from any proposed changes can be identified and properly assessed.

PREPARED BY:

ZG Lighting (UK) Limited
Durhamgate
Spennymoor
County Durham
DL16 6HL

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 - Central Parking	123.22	78.98	47.72	56.38	1.36	1.45
2	Grid 2 - South Parking	97.21	39.88	69.37	39.27	1.48	1.45
3	Grid 3 - Remote Footways	76.52	15.81	131.17	166.05	1.47	1.50

Luminaires

Luminaire B Data

Supplier	
Type	D-CO LED BOLLARD 1000 30L50 830 CL1
Lamp(s)	LED_507 14W
LampFlux(klm)/Colour	0.51 3000/
File Name	96262100_(STD).LDT
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	114.6, 111.4, 104.5
No. in Project	35

Luminaire C Data

Supplier	
Type	HOLLY CONE ROUND DOWN IP65 300 830
Lamp(s)	LED-TE438 5W
LampFlux(klm)/Colour	0.30 Unknown/80
File Name	HOLLY CONE ROUND DOWN IP65 300 83 0 96633683_(STD).LDT
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	6.9, 0.9, 1.6
No. in Project	27

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	B	138.58	108.81	1.00	181.00	0.00	0.00	0.00			
2	B	145.52	108.92	1.00	358.00	0.00	0.00	0.00			
3	B	138.62	102.14	1.00	179.00	0.00	0.00	0.00			
4	B	145.63	102.14	1.00	1.00	0.00	0.00	0.00			
5	B	153.94	124.17	1.00	2.00	0.00	0.00	0.00			
6	B	136.90	74.44	1.00	1.00	0.00	0.00	0.00			
7	B	117.36	69.73	1.00	272.00	0.00	0.00	0.00			
8	B	117.47	51.26	1.00	88.00	0.00	0.00	0.00			
9	B	141.27	53.52	1.00	0.00	0.00	0.00	0.00			
10	B	100.35	164.00	1.00	180.41	0.00	0.00	0.00			
11	B	100.70	155.31	1.00	180.41	0.00	0.00	0.00			
12	B	101.04	148.69	1.00	180.41	0.00	0.00	0.00			
13	B	101.46	140.77	1.00	180.41	0.00	0.00	0.00			
14	B	101.66	132.91	1.00	180.41	0.00	0.00	0.00			
15	B	120.31	123.12	1.00	180.41	0.00	0.00	0.00			
16	B	120.43	115.28	1.00	180.41	0.00	0.00	0.00			
17	B	120.34	106.15	1.00	180.41	0.00	0.00	0.00			
18	B	120.46	97.78	1.00	180.41	0.00	0.00	0.00			

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Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
19	B	120.04	91.18	1.00	180.41	0.00	0.00	0.00			
20	B	130.50	129.36	1.00	2.00	0.00	0.00	0.00			
21	B	139.60	129.54	1.00	2.00	0.00	0.00	0.00			
22	B	148.89	129.66	1.00	2.00	0.00	0.00	0.00			
23	B	165.56	145.67	1.00	274.00	0.00	0.00	0.00			
24	B	161.11	139.50	1.00	0.00	0.00	0.00	0.00			
25	C	109.50	165.33	2.50	182.00	0.00	0.00	0.00			
26	C	109.81	156.65	2.50	182.00	0.00	0.00	0.00			
27	C	109.78	150.16	1.00	182.00	0.00	0.00	0.00			
28	C	109.84	142.13	1.00	180.00	0.00	0.00	0.00			
29	C	110.11	134.38	1.00	179.00	0.00	0.00	0.00			
30	C	110.36	106.62	1.00	180.00	0.00	0.00	0.00			
31	C	110.02	118.22	1.00	180.00	0.00	0.00	0.00			
32	C	110.51	90.50	1.00	180.00	0.00	0.00	0.00			
33	B	138.89	94.82	1.00	181.00	0.00	0.00	0.00			
34	B	145.79	94.86	1.00	359.00	0.00	0.00	0.00			
37	B	158.12	111.49	1.00	181.00	0.00	0.00	0.00			
38	B	158.28	98.62	1.00	181.00	0.00	0.00	0.00			
39	B	158.39	85.86	1.00	181.00	0.00	0.00	0.00			
40	B	146.02	79.12	1.00	181.00	0.00	0.00	0.00			
41	B	126.17	69.77	1.00	265.00	0.00	0.00	0.00			
42	B	135.14	69.84	1.00	271.00	0.00	0.00	0.00			
43	B	140.15	62.10	1.00	19.00	0.00	0.00	0.00			
44	B	146.28	68.73	1.00	178.00	0.00	0.00	0.00			
45	B	163.12	126.97	1.00	181.00	0.00	0.00	0.00			
44	C	117.24	162.83	2.50	182.00	0.00	0.00	0.00			
45	C	117.45	155.73	2.50	182.00	0.00	0.00	0.00			
46	C	117.59	148.28	2.50	182.00	0.00	0.00	0.00			
47	C	117.52	140.56	2.50	182.00	0.00	0.00	0.00			
48	C	117.80	131.73	2.50	182.00	0.00	0.00	0.00			
49	C	115.24	78.37	2.50	182.00	0.00	0.00	0.00			
50	C	134.82	78.30	2.50	182.00	0.00	0.00	0.00			
51	C	134.89	86.58	2.50	182.00	0.00	0.00	0.00			
52	C	163.78	86.44	2.50	182.00	0.00	0.00	0.00			
53	C	163.50	97.13	2.50	182.00	0.00	0.00	0.00			
54	C	163.57	109.88	2.50	182.00	0.00	0.00	0.00			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
55	C	130.34	116.91	2.50	182.00	0.00	0.00	0.00			
56	C	139.65	117.12	2.50	182.00	0.00	0.00	0.00			
57	C	148.41	117.12	2.50	182.00	0.00	0.00	0.00			
58	C	163.16	135.73	2.50	182.00	0.00	0.00	0.00			
59	C	169.57	135.59	2.50	182.00	0.00	0.00	0.00			
60	C	131.72	127.12	2.50	182.00	0.00	0.00	0.00			
61	C	141.24	127.39	2.50	182.00	0.00	0.00	0.00			
62	C	150.40	127.39	2.50	182.00	0.00	0.00	0.00			

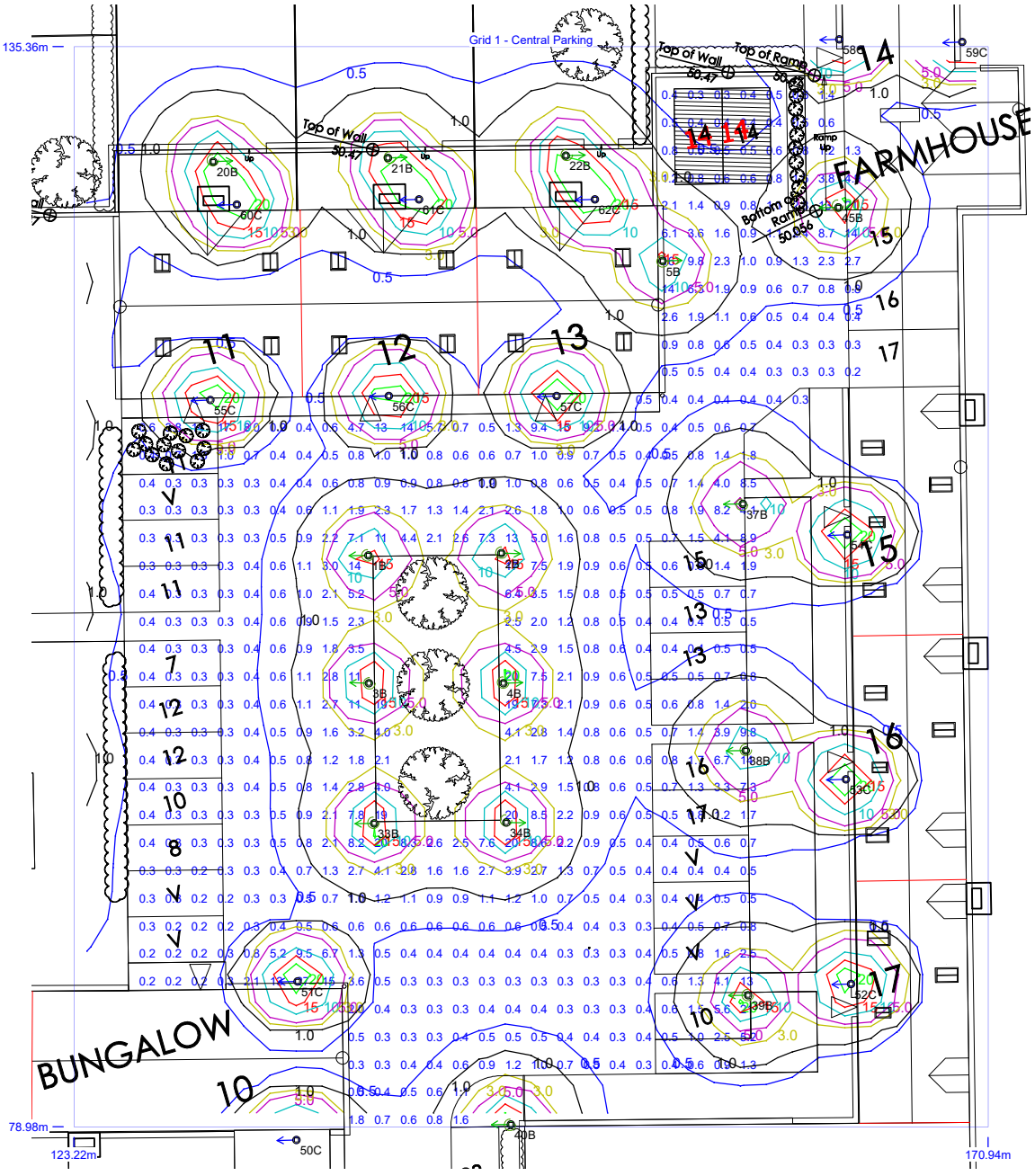
DATE: 8 July 2026 DESIGNER: J.K

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THORN LIGHTING

Horizontal Illuminance (lux)

Grid 1 - Central Parking



Results

Eav	1.99
Emin	0.19
Emax	26.51
Emin/Emax	0.01
Emin/Eav	0.10

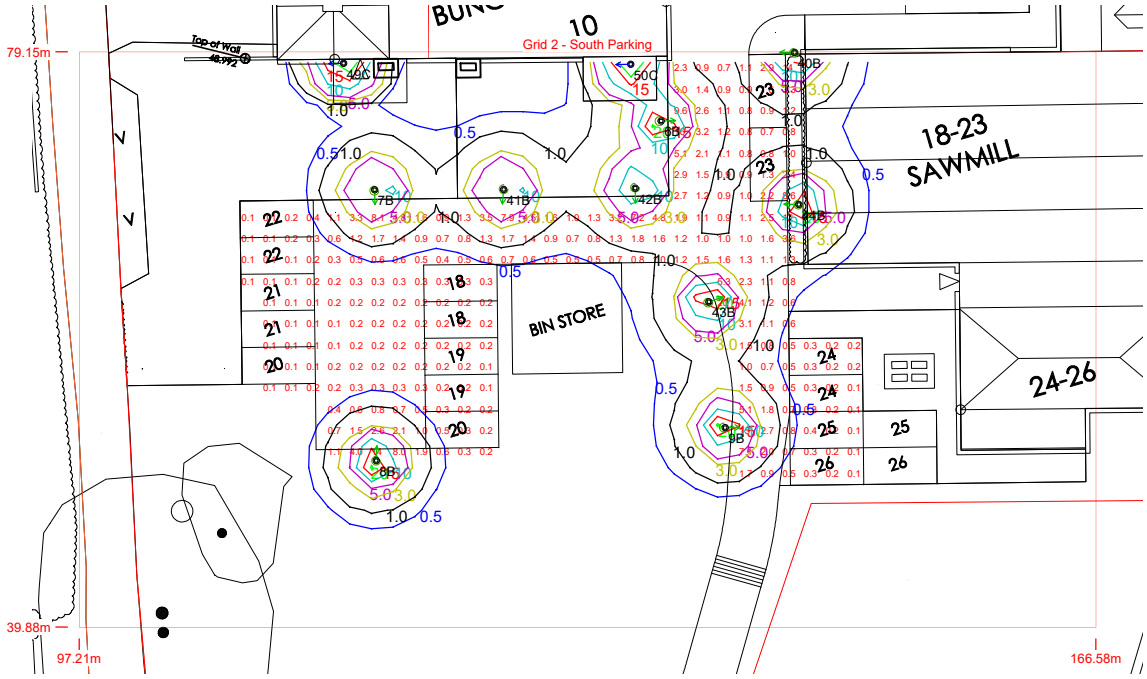
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Horizontal Illuminance (lux)

Grid 2 - South Parking



Results

Eav	1.44
Emin	0.07
Emax	20.19
Emin/Emax	0.00
Emin/Eav	0.05

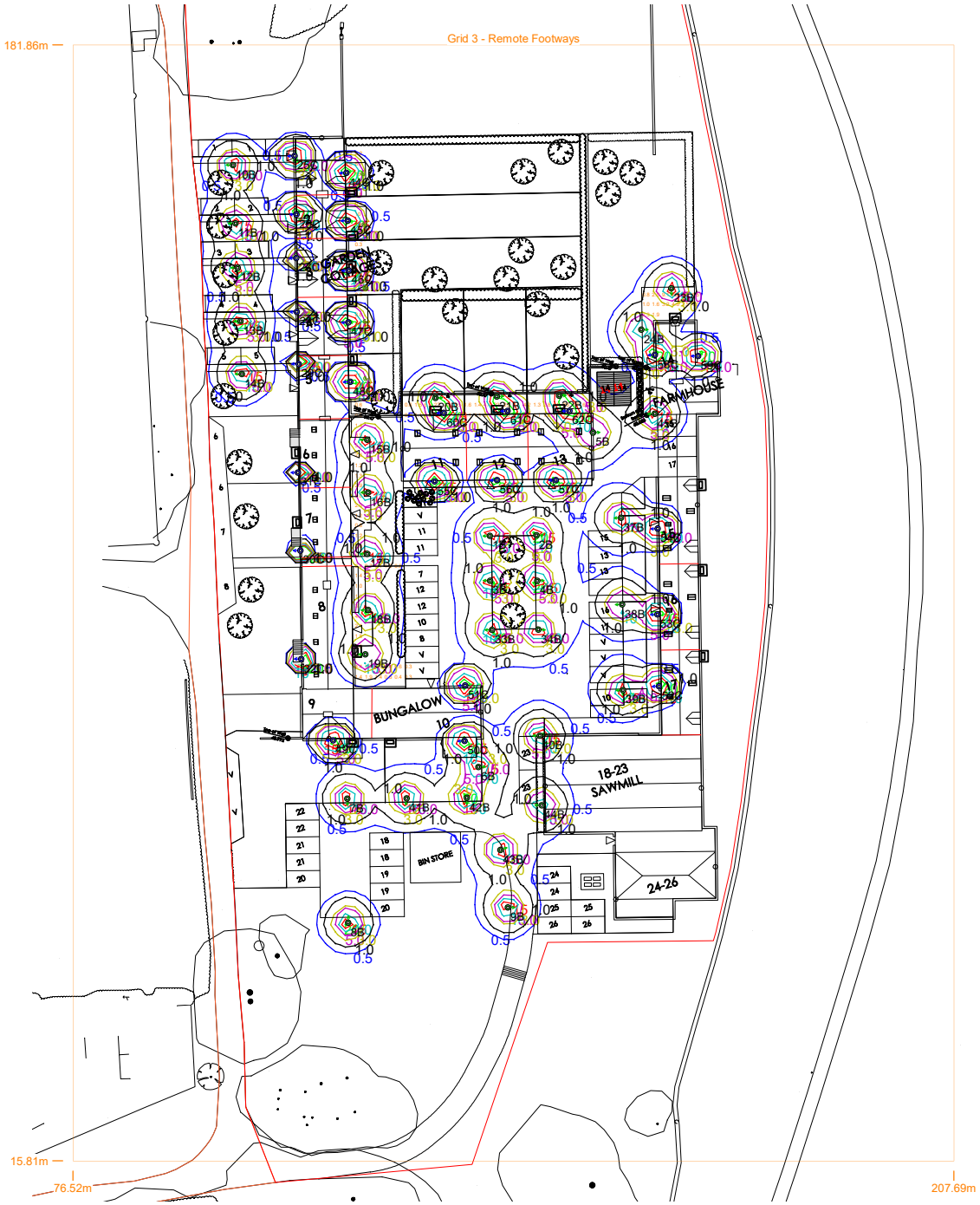
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THORN LIGHTING

Horizontal Illuminance (lux)

Grid 3 - Remote Footways



Results

Eav	6.71
Emin	0.17
Emax	30.75
Emin/Emax	0.01
Emin/Eav	0.03

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