

DATE: 8 November 2022
DESIGNER: Daniel Evans
PROJECT No: ASD-SL-IR-2022-2023-013
PROJECT NAME: Kingscourt, County Cavan

**LIGHTING
REALITY**

CarPark Designed to P4 in line with BS5489_2020:

Eav = 5.00 to 7.50
Emin = 1.00
Uo = 25%

Junction and road designed to C4 in line with BS5489_2020:

Eav = 10.00 to 15.00
Uo = 40%

Outdoor Lighting Report

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	678277.38	795768.00	250.00	90.00	1.50	1.50
2	Grid 2	678465.00	795700.00	120.00	234.00	1.50	1.50

Luminaires

Luminaire A Data

Supplier	
Type	HWD2-#4K16 500-M2-CLO Gen7
Lamp(s)	LED
LampFlux(klm)/Colour	2.92 4000/72
File Name	HWD2-#4K16 500-M2-CLO (24W).ldt
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	890.8, 275.9, 1.4
No. in Project	18

Luminaire B Data

Supplier	
Type	HWD4-#4K32 400-F0-CLO Gen7
Lamp(s)	LED
LampFlux(klm)/Colour	5.22 4000/72
File Name	HWD4-#4K32 400-F0-CLO (37W).ldt
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	849.5, 49.8, 0.2
No. in Project	21

Luminaire C Data

Supplier	
Type	HWD4-#4K28 500-M1-CLO Gen7
Lamp(s)	LED
LampFlux(klm)/Colour	5.62 4000/72
File Name	HWD4-#4K28 500-M1-CLO (40W).ldt
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	651.8, 196.1, 0.4
No. in Project	2

Luminaire O Data

Supplier	
Type	HWD4-#4K28 400-F0-CLO Gen7
Lamp(s)	LED
LampFlux(klm)/Colour	4.58 4000/72
File Name	HWD4-#4K28 400-F0-CLO (33W).ldt
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	839.3, 51.4, 0.3
No. in Project	2

Layout

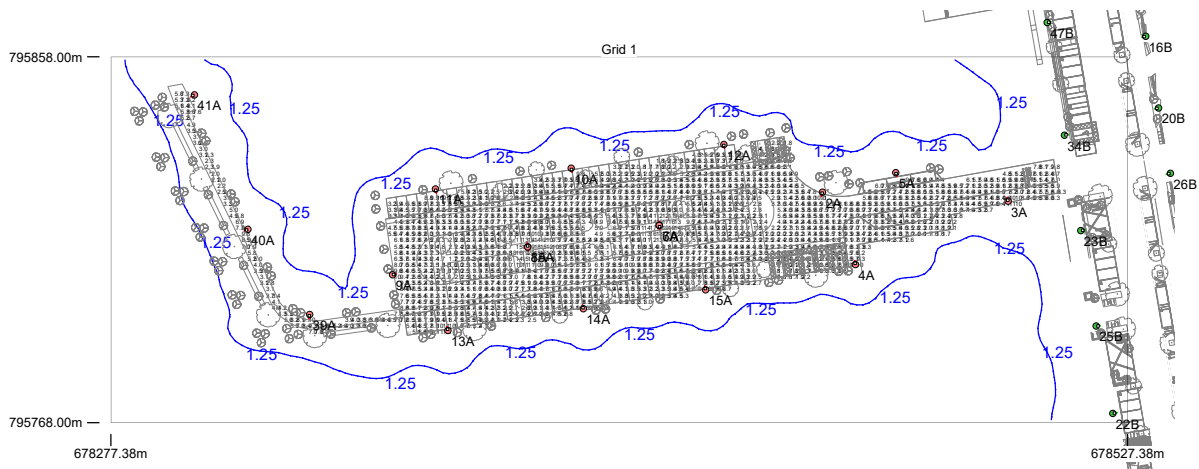
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
2	A	678452.33	795824.74	6.00	252.00	0.00	0.00	0.30			
3	A	678497.96	795822.48	6.00	104.00	0.00	0.00	0.30			
4	A	678460.43	795806.93	6.00	102.00	0.00	0.00	0.30			
5	A	678470.35	795829.55	6.00	283.00	0.00	0.00	0.30			
6	A	678412.16	795816.58	6.00	99.00	0.00	0.00	0.30			
7	A	678412.20	795816.54	6.00	279.00	0.00	0.00	0.30			
8	A	678379.85	795811.29	6.00	280.00	0.00	0.00	0.30			
9	A	678346.61	795804.42	6.00	13.00	0.00	0.00	0.30			
10	A	678390.55	795830.58	6.00	281.00	0.00	0.00	0.30			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
11	A	678357.20	795825.47	6.00	283.00	0.00	0.00	0.30			
12	A	678428.04	795836.46	6.00	281.00	0.00	0.00	0.30			
13	A	678360.23	795790.70	6.00	102.00	0.00	0.00	0.30			
14	A	678393.52	795796.03	6.00	102.00	0.00	0.00	0.30			
15	A	678423.58	795800.70	6.00	101.00	0.00	0.00	0.30			
15	A	678379.85	795811.23	6.00	101.00	0.00	0.00	0.30			
16	B	678531.80	795863.02	10.00	189.00	0.00	0.00	0.40			
17	B	678542.03	795806.49	10.00	191.00	0.00	0.00	0.40			
18	C	678481.97	795878.11	10.00	102.00	0.00	0.00	0.40			
19	B	678490.95	795869.50	10.00	98.00	0.00	0.00	0.40			
20	B	678534.92	795845.40	10.00	190.00	0.00	0.00	0.40			
21	B	678472.54	795897.62	10.00	7.00	0.00	0.00	0.40			
22	B	678523.68	795770.35	10.00	10.00	0.00	0.00	0.40			
23	B	678515.85	795815.31	10.00	5.00	0.00	0.00	0.40			
25	B	678519.63	795791.80	10.00	7.00	0.00	0.00	0.40			
26	B	678537.81	795829.34	10.00	192.00	0.00	0.00	0.40			
27	B	678546.17	795783.91	10.00	188.00	0.00	0.00	0.40			
28	B	678526.79	795752.56	10.00	8.00	0.00	0.00	0.40			
29	B	678561.47	795716.67	10.00	190.00	0.00	0.00	0.40			
31	B	678531.45	795712.08	10.00	8.00	0.00	0.00	0.40			
32	B	678551.26	795758.42	10.00	189.00	0.00	0.00	0.40			
33	B	678517.61	795729.10	10.00	283.00	0.00	0.00	0.40			
34	B	678511.79	795838.73	10.00	7.00	0.00	0.00	0.40			
35	O	678565.59	795739.75	9.00	277.00	0.00	0.00	0.40			
36	B	678524.08	795906.47	10.00	194.00	0.00	0.00	0.40			
37	B	678496.27	795901.00	10.00	280.00	0.00	0.00	0.40			
39	A	678326.27	795794.64	6.00	256.00	0.00	0.00	0.30			
40	A	678311.09	795815.61	6.00	205.00	0.00	0.00	0.40			
41	A	678297.91	795848.65	6.00	210.00	0.00	0.00	0.40			
43	B	678530.57	795891.35	10.00	195.00	0.00	0.00	0.40			
44	C	678533.03	795737.37	10.00	315.00	0.00	0.00	0.40			
46	B	678511.93	795879.72	10.00	5.00	0.00	0.00	0.40			
47	B	678507.53	795866.45	10.00	8.00	0.00	0.00	0.40			
45	O	678560.98	795723.84	7.00	101.00	0.00	0.00	0.90			

Horizontal Illuminance (lux)

Grid 1

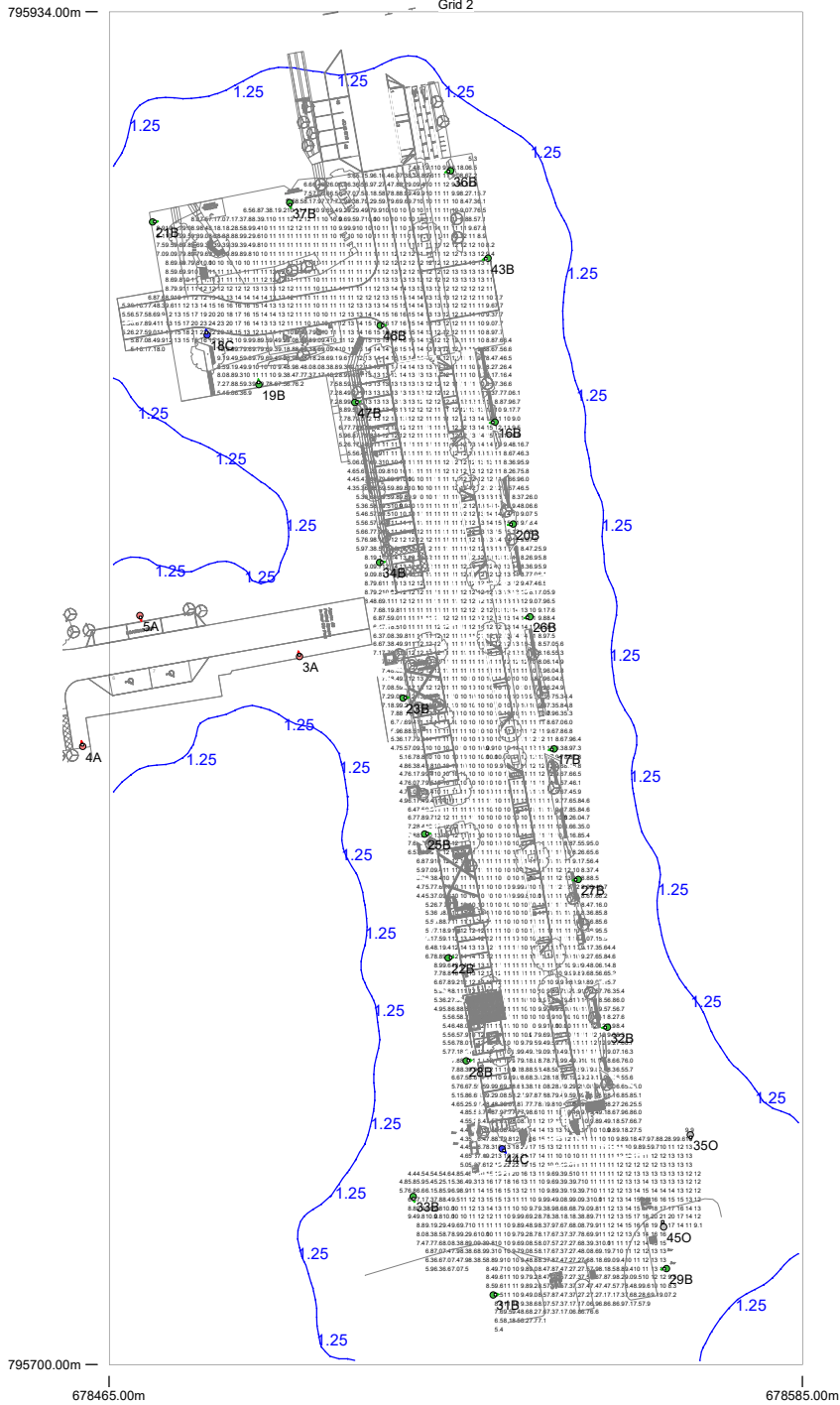


Results

Eav	5.91
Emin	1.51
Emax	19.57
Emin/Emax	0.08
Emin/Eav	0.26

Horizontal Illuminance (lux)

Grid 2



Results

Eav	10.28
Emin	4.33
Emax	23.66
Emin/Emax	0.18
Emin/Eav	0.42