

DATE: 31 October 2024
DESIGNER: Michael Lannon
PROJECT No: 3261
PROJECT NAME: Castlemartyr LRD

**LIGHTING
REALITY**

Lighting class Design to EN13201 / BS 5489

Grid 1 (Roadway & Footpath) - Lighting Class P4
Grid 2 (Site Entrance Junction) - Lighting Class C3
Grid 3 (Roadway & Footpath) - Lighting Class P4
Grid 4 (Footpath) - Lighting Class P4

Note: All Lighting Columns are to be at the back of footpaths

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	596640.17	573127.27	367.46	291.97	1.50	1.50
2	Grid 2	596793.90	573520.48	23.97	19.90	1.50	1.42
3	Grid 3	596786.27	573417.41	71.54	115.36	1.49	1.50
4	Grid 4	596750.03	573387.81	36.02	115.36	1.44	1.50

Luminaires

Luminaire A Data



Supplier	C U Phosco
Type	P852K-12-P4-WW-CA0650-25W
Lamp(s)	730C WW
Lamp Flux (klm)	2.95
File Name	P852K-12-P4-WW-CA0650-25W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	730.4, 161.4, 0.8
No. in Project	31

Luminaire B Data



Supplier	C U Phosco
Type	P852K-12-F2-WW-CA0650-25W
Lamp(s)	730C WW
Lamp Flux (klm)	2.89
File Name	P852K-12-F2-WW-CA0650-25W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	750.5, 280.0, 34.0
No. in Project	19

Luminaire C Data



Supplier	C U Phosco
Type	P863-128-F2B-730-W3-500-65W
Lamp(s)	730SS
Lamp Flux (klm)	8.81
File Name	P863-128-F2B-730-W3-500-65W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	461.8, 61.8, 0.8
No. in Project	2

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
3	B	596710.62	573189.69	6.00	24.00	0.00	0.00	0.40			
4	B	596695.59	573214.75	6.00	27.00	0.00	0.00	0.40			
5	B	596683.92	573234.17	6.00	27.00	0.00	0.00	0.40			
6	B	596672.63	573252.93	6.00	27.00	0.00	0.00	0.40			
7	B	596657.83	573253.26	6.00	124.00	0.00	0.00	0.40			
8	B	596696.79	573270.82	6.00	124.00	0.00	0.00	0.40			
9	B	596716.37	573282.52	6.00	124.00	0.00	0.00	0.40			

Layout Continued

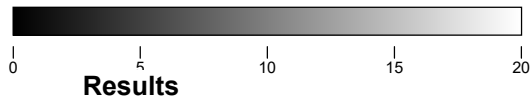
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
10	B	596731.26	573301.82	6.00	304.00	0.00	0.00	0.40			
11	B	596754.34	573315.76	6.00	304.00	0.00	0.00	0.40			
12	B	596779.65	573326.22	6.00	276.00	0.00	0.00	0.40			
15	A	596719.95	573225.33	6.00	297.00	0.00	0.00	0.40			
16	A	596778.40	573295.54	6.00	121.00	0.00	0.00	0.40			
17	A	596747.30	573276.83	6.00	121.00	0.00	0.00	0.40			
18	A	596739.47	573237.05	6.00	297.00	0.00	0.00	0.40			
19	A	596803.34	573323.53	6.00	208.00	0.00	0.00	0.40			
20	A	596816.94	573297.70	6.00	199.00	0.00	0.00	0.40			
21	A	596827.28	573278.09	6.00	208.00	0.00	0.00	0.40			
22	B	596786.46	573351.70	6.00	348.00	0.00	0.00	0.40			
23	B	596798.40	573385.15	6.00	336.00	0.00	0.00	0.40			
24	B	596808.89	573412.99	6.00	336.00	0.00	0.00	0.40			
25	A	596764.94	573227.22	6.00	213.00	0.00	0.00	0.40			
26	A	596786.27	573225.16	6.00	126.00	0.00	0.00	0.40			
27	A	596810.86	573243.68	6.00	133.00	0.00	0.00	0.40			
28	A	596825.29	573437.39	6.00	297.00	0.00	0.00	0.40			
29	A	596835.35	573455.22	6.00	6.00	0.00	0.00	0.40			
30	A	596821.06	573484.33	6.00	28.00	0.00	0.00	0.40			
31	A	596804.59	573515.44	6.00	27.00	0.00	0.00	0.40			
32	B	596859.10	573268.46	6.00	298.00	0.00	0.00	0.40			
33	B	596837.52	573257.14	6.00	288.00	0.00	0.00	0.40			
34	B	596874.47	573280.32	6.00	329.00	0.00	0.00	0.40			
40	A	596808.90	573359.24	6.00	76.00	0.00	0.00	0.40			
41	A	596829.68	573364.09	6.00	118.00	0.00	0.00	0.40			
42	A	596842.57	573354.99	6.00	26.00	0.00	0.00	0.40			
43	A	596858.16	573325.39	6.00	26.00	0.00	0.00	0.40			
44	A	596870.73	573301.54	6.00	26.00	0.00	0.00	0.40			
45	A	596890.52	573314.09	6.00	299.00	0.00	0.00	0.40			
46	A	596913.19	573330.49	6.00	299.00	0.00	0.00	0.40			
47	A	596939.04	573344.07	6.00	299.00	0.00	0.00	0.40			
48	A	596966.79	573356.94	6.00	207.00	0.00	0.00	0.40			
49	A	596953.24	573382.70	6.00	207.00	0.00	0.00	0.40			
50	A	596943.59	573401.12	6.00	207.00	0.00	0.00	0.40			
51	A	596864.76	573360.76	6.00	119.00	0.00	0.00	0.40			
52	A	596889.37	573378.20	6.00	119.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
53	A	596921.66	573395.16	6.00	119.00	0.00	0.00	0.40			
54	C	596794.66	573523.98	8.00	119.00	0.00	0.00	0.40			
55	C	596812.04	573532.28	8.00	119.00	0.00	0.00	0.40			
56	B	596785.77	573399.75	6.00	251.00	0.00	0.00	0.40			
57	B	596757.47	573388.93	6.00	28.00	0.00	0.00	0.40			
58	A	596743.12	573433.91	6.00	30.00	0.00	0.00	0.40			
59	A	596727.71	573456.02	6.00	209.00	0.00	0.00	0.40			
60	B	596746.21	573409.66	6.00	36.00	0.00	0.00	0.40			
52	A	596718.31	573482.20	6.00	30.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

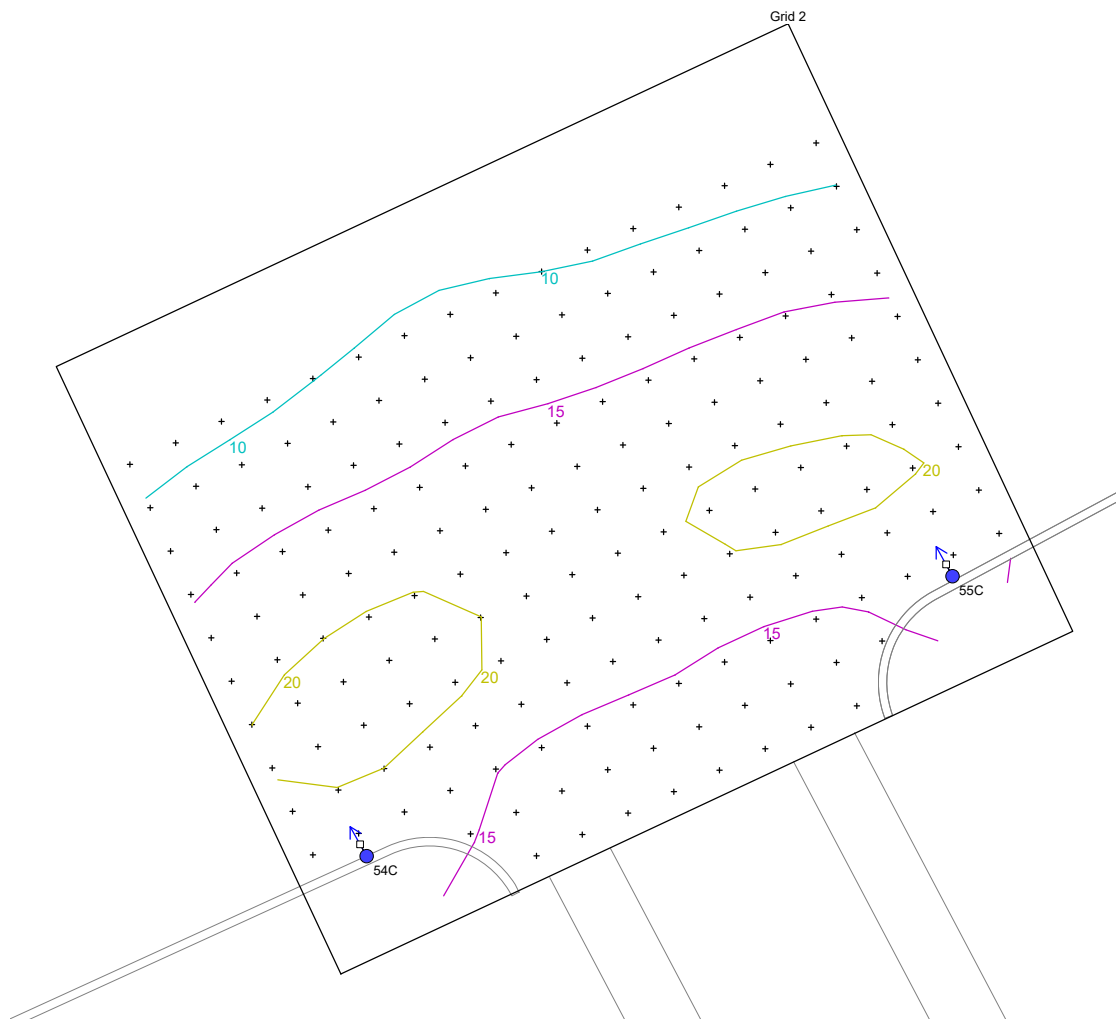
Grid 1



Eav	5.64
Emin	1.21
Emax	20.17
Emin/Emax	0.06
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 2

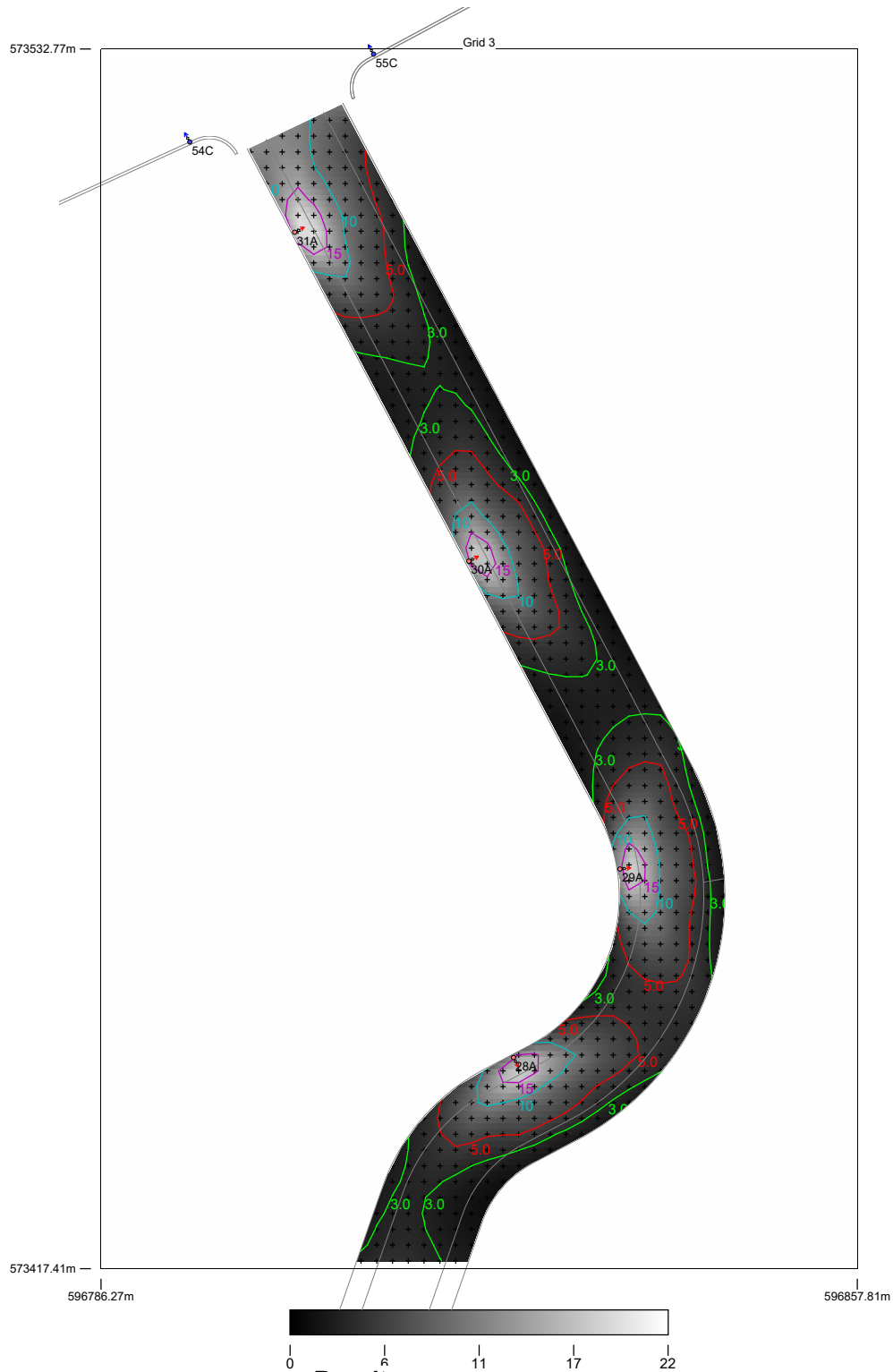


Results

Eav	15.65
Emin	7.71
Emax	21.98
Emin/Emax	0.35
Emin/Eav	0.49

Horizontal Illuminance (lux)

Grid 3

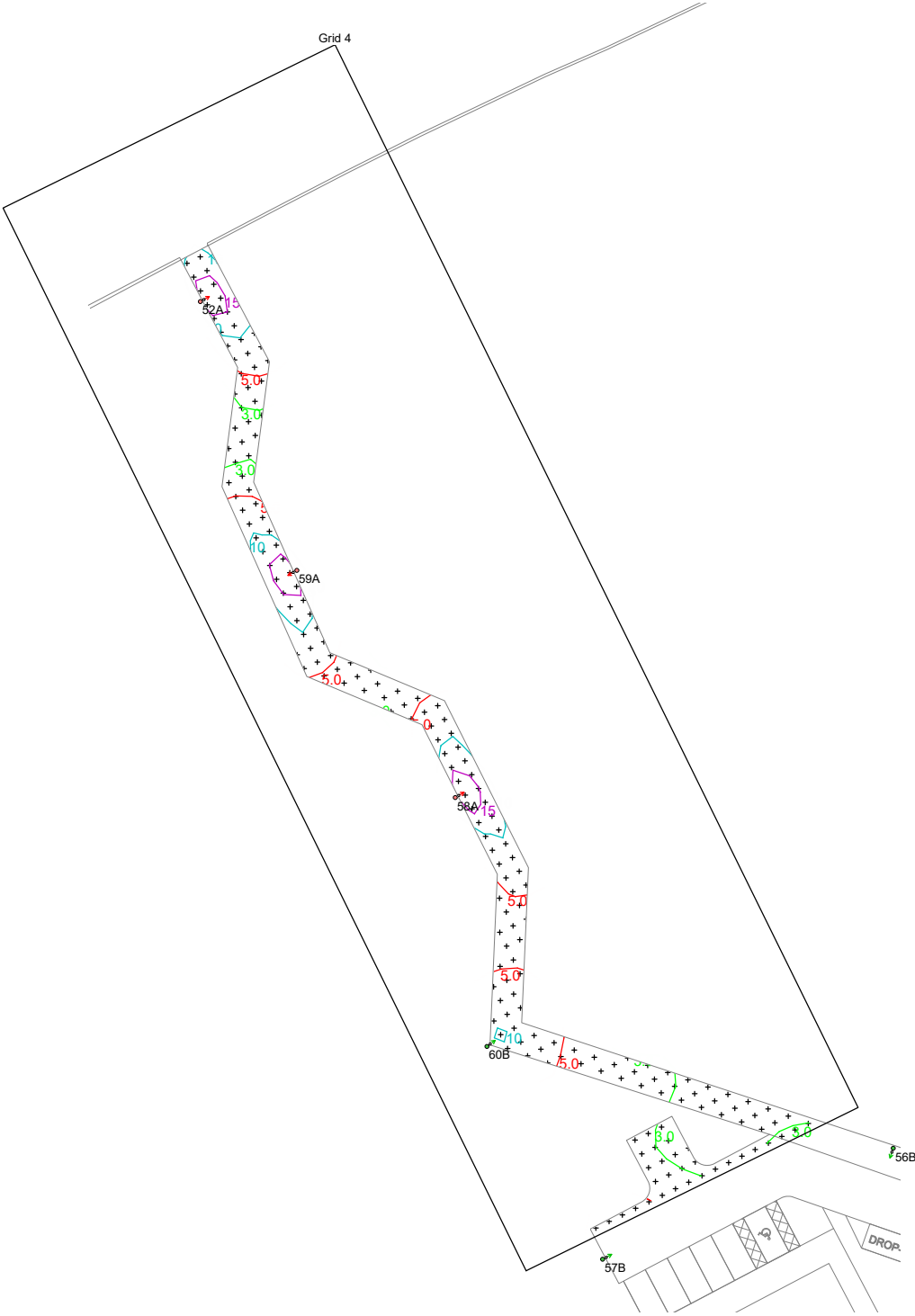


Results

Eav	5.64
Emin	1.18
Emax	19.54
Emin/Emax	0.06
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 4



Results

Eav	6.62
Emin	1.77
Emax	18.71
Emin/Emax	0.09
Emin/Eav	0.27