

DATE: 14 October 2025
DESIGNER: Michael Lannon
PROJECT No: 3260
PROJECT NAME: Ballymastone Phase 3

**LIGHTING
REALITY**

Lighting class Design to EN13201 / BS 5489

Grid 1 (Roadway & Footpath) - Lighting Class P4
Grid 2 (Roadway & Footpath) - Lighting Class P4
Grid 3 (Footpath) - Lighting Class P6
Grid 4 (Footpath) - Lighting Class P6
Grid 5 (Footpath) - Lighting Class P6

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	723410.45	750295.16	374.40	364.93	1.50	1.50
2	Grid 2	723780.34	750344.78	282.83	315.31	1.50	1.49
3	Grid 3	723785.34	750349.78	113.96	313.39	1.50	1.50
4	Grid 4	723703.36	750237.49	211.60	177.32	1.49	1.49
5	Grid 5	723403.20	750392.31	169.01	114.15	1.50	1.48

Luminaires

Luminaire A Data



Supplier	C U Phosco
Type	P852K-12-P4-NW-CB0750-29W
Lamp(s)	740C
Lamp Flux (klm)	3.70
File Name	P852K-12-P4-NW-CB0750-29W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	747.2, 125.8, 0.0
No. in Project	30

Luminaire B Data



Supplier	C U Phosco
Type	P852K-12-F2-NW-CB0750-29W
Lamp(s)	740C
Lamp Flux (klm)	3.63
File Name	P852K-12-F2-NW-CB0750-29W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	761.9, 260.5, 34.9
No. in Project	55

Luminaire C Data



Supplier	C U Phosco
Type	P852K-12-F2-NW-CB0200-9W
Lamp(s)	740C
Lamp Flux (klm)	1.12
File Name	P852K-12-F2-NW-CB0200-9W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	761.9, 260.5, 34.9
No. in Project	10

Luminaire D Data



Supplier	C U Phosco
Type	P852K-12-P4-NW-CB0200-9W
Lamp(s)	740C NW
Lamp Flux (klm)	1.09
File Name	P852K-12-P4-NW-CB0200-9W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	760.6, 161.3, 0.8
No. in Project	13

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	B	723584.83	750567.82	6.00	257.00	0.00	0.00	0.40			
2	A	723578.32	750522.39	6.00	163.00	0.00	0.00	0.40			
3	B	723563.48	750472.59	6.00	350.00	0.00	0.00	0.40			
4	B	723584.89	750467.41	6.00	74.00	0.00	0.00	0.40			
5	A	723565.47	750440.81	6.00	168.00	0.00	0.00	0.40			
6	B	723559.34	750413.44	6.00	162.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
7	D	723525.70	750463.83	6.00	85.00	0.00	0.00	0.40			
9	D	723446.43	750480.34	6.00	71.00	0.00	0.00	0.40			
10	D	723419.57	750485.89	6.00	78.00	0.00	0.00	0.40			
11	A	723505.62	750401.17	6.00	74.00	0.00	0.00	0.40			
12	B	723469.40	750409.94	6.00	76.00	0.00	0.00	0.40			
13	B	723439.46	750418.50	6.00	69.00	0.00	0.00	0.40			
14	A	723537.19	750394.62	6.00	74.00	0.00	0.00	0.40			
15	B	723492.09	750434.30	6.00	171.00	0.00	0.00	0.40			
16	B	723487.03	750470.21	6.00	275.00	0.00	0.00	0.40			
17	A	723437.18	750359.81	6.00	78.00	0.00	0.00	0.40			
18	A	723476.32	750350.53	6.00	75.00	0.00	0.00	0.40			
19	B	723508.48	750341.83	6.00	120.00	0.00	0.00	0.40			
20	B	723551.74	750381.59	6.00	163.00	0.00	0.00	0.40			
21	B	723545.28	750353.06	6.00	163.00	0.00	0.00	0.40			
22	B	723523.70	750326.28	6.00	359.00	0.00	0.00	0.40			
23	A	723574.26	750396.50	6.00	258.00	0.00	0.00	0.40			
24	B	723602.90	750320.68	6.00	346.00	0.00	0.00	0.40			
25	B	723608.31	750345.05	6.00	346.00	0.00	0.00	0.40			
26	B	723612.67	750364.85	6.00	346.00	0.00	0.00	0.40			
27	B	723620.48	750400.79	6.00	346.00	0.00	0.00	0.40			
28	B	723624.03	750416.64	6.00	346.00	0.00	0.00	0.40			
29	B	723630.33	750439.22	6.00	346.00	0.00	0.00	0.40			
30	B	723610.17	750462.32	6.00	74.00	0.00	0.00	0.40			
31	B	723669.99	750440.37	6.00	259.00	0.00	0.00	0.40			
32	B	723701.43	750434.50	6.00	259.00	0.00	0.00	0.40			
33	B	723638.14	750466.47	6.00	259.00	0.00	0.00	0.40			
34	B	723661.79	750461.73	6.00	259.00	0.00	0.00	0.40			
35	B	723687.10	750456.63	6.00	259.00	0.00	0.00	0.40			
36	A	723643.14	750495.05	6.00	168.00	0.00	0.00	0.40			
37	A	723652.36	750535.36	6.00	164.00	0.00	0.00	0.40			
38	A	723669.12	750554.35	6.00	255.00	0.00	0.00	0.40			
39	A	723702.38	750547.96	6.00	255.00	0.00	0.00	0.40			
40	A	723714.64	750521.65	6.00	2.00	0.00	0.00	0.40			
41	A	723716.17	750475.45	6.00	5.00	0.00	0.00	0.40			
42	B	723709.05	750452.34	6.00	259.00	0.00	0.00	0.40			
43	B	723734.28	750428.59	6.00	259.00	0.00	0.00	0.40			

Layout Continued

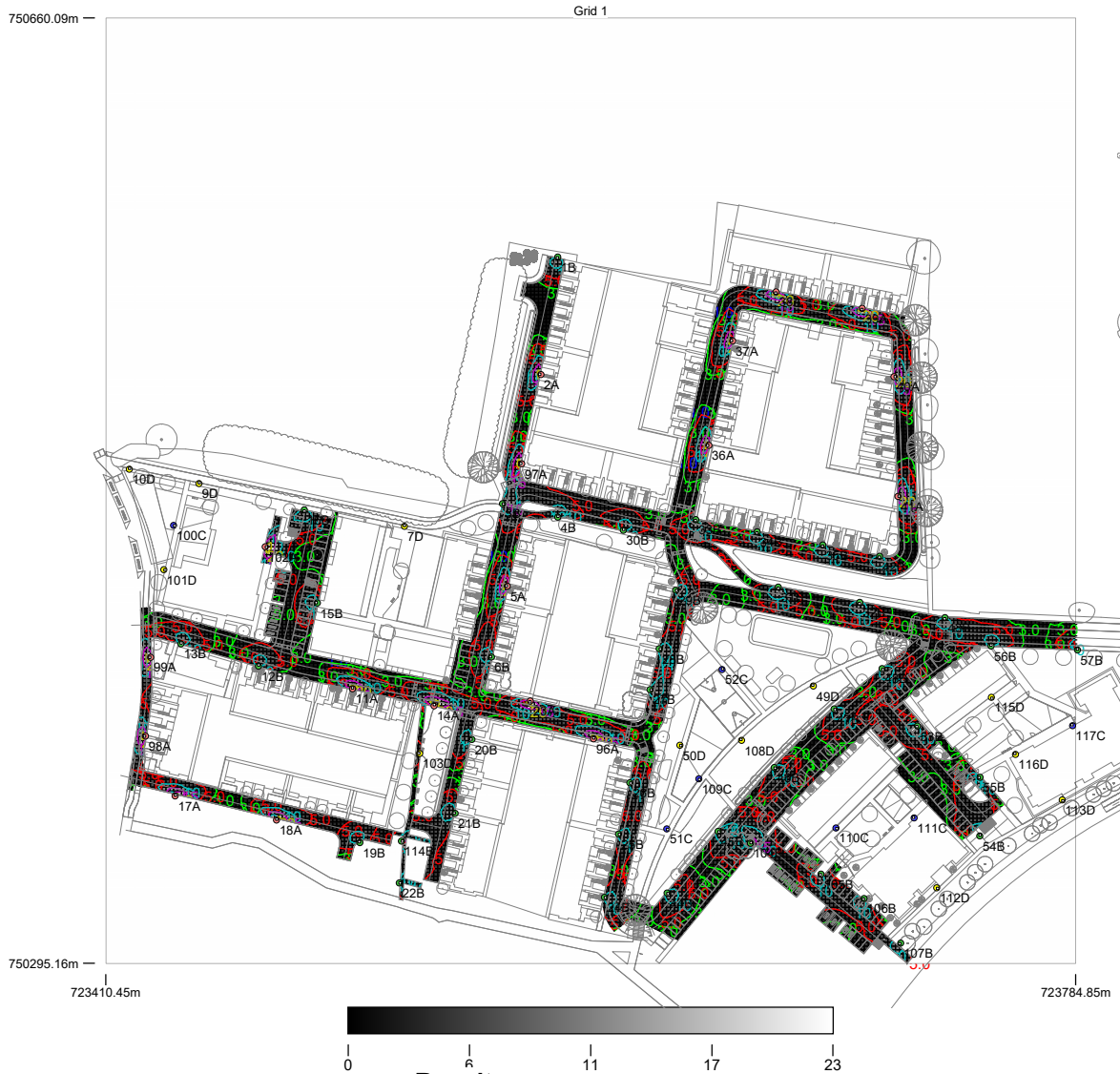
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
44	B	723627.04	750322.36	6.00	330.00	0.00	0.00	0.40			
45	B	723646.70	750346.13	6.00	330.00	0.00	0.00	0.40			
46	B	723668.47	750370.80	6.00	320.00	0.00	0.00	0.40			
47	B	723691.55	750393.41	6.00	311.00	0.00	0.00	0.40			
48	B	723710.07	750408.91	6.00	314.00	0.00	0.00	0.40			
49	D	723683.54	750402.26	6.00	130.00	0.00	0.00	0.40			
50	D	723632.04	750379.40	6.00	336.00	0.00	0.00	0.40			
51	C	723626.97	750347.06	6.00	337.00	0.00	0.00	0.40			
52	C	723648.24	750408.61	6.00	39.00	0.00	0.00	0.40			
53	B	723723.72	750386.84	6.00	230.00	0.00	0.00	0.40			
54	B	723747.71	750344.33	6.00	78.00	0.00	0.00	0.40			
55	B	723747.81	750367.06	6.00	211.00	0.00	0.00	0.40			
56	B	723752.03	750417.64	6.00	77.00	0.00	0.00	0.40			
57	B	723785.47	750416.11	6.00	95.00	0.00	0.00	0.40			
58	B	723813.64	750383.64	6.00	16.00	0.00	0.00	0.40			
59	B	723809.39	750413.58	6.00	24.00	0.00	0.00	0.40			
60	C	723842.29	750460.18	6.00	208.00	0.00	0.00	0.40			
61	B	723840.94	750399.60	6.00	11.00	0.00	0.00	0.40			
62	A	723845.08	750433.47	6.00	312.00	0.00	0.00	0.40			
63	A	723874.40	750461.06	6.00	313.00	0.00	0.00	0.40			
64	B	723832.67	750511.09	6.00	316.00	0.00	0.00	0.40			
65	B	723862.25	750520.96	6.00	212.00	0.00	0.00	0.40			
66	A	723872.88	750496.72	6.00	48.00	0.00	0.00	0.40			
67	B	723899.41	750469.32	6.00	58.00	0.00	0.00	0.40			
68	A	723922.10	750446.50	6.00	44.00	0.00	0.00	0.40			
70	B	723944.36	750424.30	6.00	35.00	0.00	0.00	0.40			
71	A	723977.44	750445.27	6.00	314.00	0.00	0.00	0.40			
72	A	724002.66	750470.19	6.00	311.00	0.00	0.00	0.40			
74	A	723990.99	750494.98	6.00	52.00	0.00	0.00	0.40			
75	B	723964.49	750515.05	6.00	97.00	0.00	0.00	0.40			
76	A	723935.21	750490.57	6.00	137.00	0.00	0.00	0.40			
77	B	723933.22	750526.66	6.00	325.00	0.00	0.00	0.40			
78	B	723918.01	750512.25	6.00	313.00	0.00	0.00	0.40			
79	B	723903.37	750498.52	6.00	313.00	0.00	0.00	0.40			
80	A	723924.55	750550.77	6.00	44.00	0.00	0.00	0.40			
81	A	723898.40	750578.45	6.00	47.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
82	B	723871.47	750596.36	6.00	96.00	0.00	0.00	0.40			
83	A	723848.02	750577.50	6.00	134.00	0.00	0.00	0.40			
84	B	723836.19	750555.85	6.00	183.00	0.00	0.00	0.40			
89	C	723831.93	750481.81	6.00	208.00	0.00	0.00	0.40			
90	C	723834.26	750522.66	6.00	168.00	0.00	0.00	0.40			
91	B	723846.29	750538.01	6.00	222.00	0.00	0.00	0.40			
96	A	723598.66	750381.84	6.00	77.00	0.00	0.00	0.40			
97	A	723571.01	750488.03	6.00	167.00	0.00	0.00	0.40			
98	A	723425.78	750382.91	6.00	175.00	0.00	0.00	0.40			
99	A	723427.78	750413.28	6.00	180.00	0.00	0.00	0.40			
100	C	723436.62	750464.28	6.00	342.00	0.00	0.00	0.40			
101	D	723432.89	750447.15	6.00	347.00	0.00	0.00	0.40			
102	A	723472.02	750456.03	6.00	344.00	0.00	0.00	0.40			
103	D	723531.62	750376.20	6.00	170.00	0.00	0.00	0.40			
104	B	723659.21	750341.53	6.00	46.00	0.00	0.00	0.40			
105	B	723686.43	750329.69	6.00	227.00	0.00	0.00	0.40			
106	B	723703.11	750320.27	6.00	222.00	0.00	0.00	0.40			
107	B	723717.18	750303.04	6.00	227.00	0.00	0.00	0.40			
108	D	723655.80	750381.27	6.00	130.00	0.00	0.00	0.40			
109	C	723639.26	750366.37	6.00	323.00	0.00	0.00	0.40			
110	C	723692.27	750347.50	6.00	309.00	0.00	0.00	0.40			
111	C	723722.42	750351.29	6.00	141.00	0.00	0.00	0.40			
112	D	723731.10	750324.32	6.00	322.00	0.00	0.00	0.40			
113	D	723779.59	750358.30	6.00	303.00	0.00	0.00	0.40			
114	D	723804.62	750372.00	6.00	301.00	0.00	0.00	0.40			
115	D	723752.19	750397.92	6.00	300.00	0.00	0.00	0.40			
116	D	723761.47	750375.80	6.00	119.00	0.00	0.00	0.40			
117	C	723783.55	750386.96	6.00	124.00	0.00	0.00	0.40			
114	B	723524.52	750342.43	6.00	359.00	0.00	0.00	0.40			
115	A	723879.44	750397.20	6.00	287.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1



Results

Eav	5.83
Emin	1.15
Emax	22.96
Emin/Emax	0.05
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 2



Results

Eav	5.71
Emin	1.15
Emax	21.73
Emin/Emax	0.05
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 3



Results

Eav	2.80
Emin	0.84
Emax	7.07
Emin/Emax	0.12
Emin/Eav	0.30

Horizontal Illuminance (lux)

Grid 4



Results

Eav	2.77
Emin	0.68
Emax	8.95
Emin/Emax	0.08
Emin/Eav	0.25

Horizontal Illuminance (lux)

Grid 5



Results

Eav	2.66
Emin	0.52
Emax	10.38
Emin/Emax	0.05
Emin/Eav	0.20