

DATE: 14 May 2026
DESIGNER: Petro Lozenko
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 P5
Grid 4 (Footpath) - Lighting Class P5
Grid 5 (Footpath) - Lighting Class P5

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	723387.72	750294.87	374.40	364.76	1.50	1.49
2	Grid 2	723760.49	750327.38	292.30	332.31	1.50	1.50
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	723392.33	750392.31	179.88	174.84	1.50	1.49

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	34

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	54

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	12

Luminaire D Data



Supplier	C U Phosco
Type	P852K-12-P4-NW-CB0200-9W
Lamp(s)	740C
Lamp Flux (klm)	1.14
File Name	P852K-12-P4-NW-CB0200-9W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	747.2, 125.8, 0.0
No. in Project	22

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	B	723585.40	750555.23	6.00	167.00	0.00	0.00	0.40			
2	A	723578.37	750522.38	6.00	161.00	0.00	0.00	0.40			
3	B	723587.74	750477.57	6.00	256.00	0.00	0.00	0.40			
4	A	723565.48	750440.89	6.00	168.00	0.00	0.00	0.40			
5	B	723559.34	750413.44	6.00	180.00	0.00	0.00	0.40			
6	C	723447.76	750479.89	6.00	71.00	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	A	723420.54	750476.99	6.00	205.00	0.00	0.00	0.40			
8	A	723505.62	750401.17	6.00	74.00	0.00	0.00	0.40			
9	B	723468.50	750410.19	6.00	72.00	0.00	0.00	0.40			
10	B	723439.46	750418.50	6.00	69.00	0.00	0.00	0.40			
11	A	723537.00	750394.04	6.00	74.00	0.00	0.00	0.40			
12	B	723493.44	750439.97	6.00	154.00	0.00	0.00	0.40			
13	B	723487.23	750471.69	6.00	273.00	0.00	0.00	0.40			
14	A	723441.67	750365.88	6.00	250.00	0.00	0.00	0.40			
15	A	723478.94	750357.01	6.00	254.00	0.00	0.00	0.40			
16	B	723503.61	750351.10	6.00	251.00	0.00	0.00	0.40			
17	B	723552.63	750385.59	6.00	163.00	0.00	0.00	0.40			
18	B	723550.64	750334.88	6.00	163.00	0.00	0.00	0.40			
19	B	723523.73	750328.23	6.00	356.00	0.00	0.00	0.40			
20	A	723574.26	750396.50	6.00	258.00	0.00	0.00	0.40			
21	B	723613.08	750304.32	6.00	2.00	0.00	0.00	0.40			
22	A	723612.78	750365.04	6.00	346.00	0.00	0.00	0.40			
23	B	723620.48	750400.79	6.00	346.00	0.00	0.00	0.40			
24	B	723624.03	750416.64	6.00	346.00	0.00	0.00	0.40			
25	B	723630.33	750439.22	6.00	346.00	0.00	0.00	0.40			
26	B	723613.14	750471.71	6.00	253.00	0.00	0.00	0.40			
27	B	723657.61	750431.46	6.00	75.00	0.00	0.00	0.40			
28	A	723696.11	750424.23	6.00	79.00	0.00	0.00	0.40			
29	B	723638.14	750466.47	6.00	259.00	0.00	0.00	0.40			
30	B	723661.79	750461.73	6.00	259.00	0.00	0.00	0.40			
31	B	723687.10	750456.63	6.00	259.00	0.00	0.00	0.40			
32	A	723643.14	750495.05	6.00	168.00	0.00	0.00	0.40			
33	A	723652.36	750535.36	6.00	171.00	0.00	0.00	0.40			
34	A	723673.48	750544.42	6.00	77.00	0.00	0.00	0.40			
35	A	723703.58	750538.70	6.00	80.00	0.00	0.00	0.40			
36	A	723714.64	750521.65	6.00	2.00	0.00	0.00	0.40			
37	A	723716.17	750475.45	6.00	5.00	0.00	0.00	0.40			
38	B	723709.05	750452.34	6.00	259.00	0.00	0.00	0.40			
39	B	723737.37	750411.14	6.00	128.00	0.00	0.00	0.40			
40	B	723637.84	750311.31	6.00	136.00	0.00	0.00	0.40			
41	B	723651.52	750327.97	6.00	139.00	0.00	0.00	0.40			
42	B	723676.69	750358.42	6.00	134.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
43	B	723697.77	750379.18	6.00	131.00	0.00	0.00	0.40			
44	B	723721.47	750399.44	6.00	120.00	0.00	0.00	0.40			
45	C	723654.80	750380.25	6.00	132.00	0.00	0.00	0.40			
46	C	723630.00	750371.87	6.00	322.00	0.00	0.00	0.40			
47	D	723679.74	750400.09	6.00	118.00	0.00	0.00	0.40			
48	C	723692.94	750339.81	6.00	40.00	0.00	0.00	0.40			
49	B	723717.21	750371.79	6.00	40.00	0.00	0.00	0.40			
50	B	723762.44	750350.30	6.00	205.00	0.00	0.00	0.40			
51	B	723746.66	750368.47	6.00	211.00	0.00	0.00	0.40			
52	B	723751.52	750417.72	6.00	68.00	0.00	0.00	0.40			
53	B	723786.03	750416.29	6.00	91.00	0.00	0.00	0.40			
54	B	723813.53	750384.16	6.00	13.00	0.00	0.00	0.40			
55	B	723809.65	750413.35	6.00	19.00	0.00	0.00	0.40			
56	D	723843.16	750461.14	6.00	29.00	0.00	0.00	0.40			
57	B	723850.74	750406.56	6.00	215.00	0.00	0.00	0.40			
58	B	723846.10	750422.05	6.00	125.00	0.00	0.00	0.40			
59	A	723887.19	750460.31	6.00	135.00	0.00	0.00	0.40			
60	A	723846.74	750506.88	6.00	131.00	0.00	0.00	0.40			
61	A	723879.13	750503.05	6.00	222.00	0.00	0.00	0.40			
62	B	723899.41	750469.32	6.00	47.00	0.00	0.00	0.40			
63	A	723922.10	750446.50	6.00	44.00	0.00	0.00	0.40			
64	B	723948.89	750421.43	6.00	66.00	0.00	0.00	0.40			
65	A	723979.37	750446.83	6.00	319.00	0.00	0.00	0.40			
66	B	724003.75	750471.18	6.00	328.00	0.00	0.00	0.40			
67	A	723990.99	750494.98	6.00	46.00	0.00	0.00	0.40			
68	A	723949.94	750497.24	6.00	128.00	0.00	0.00	0.40			
69	A	723925.43	750477.03	6.00	133.00	0.00	0.00	0.40			
70	B	723933.22	750526.66	6.00	325.00	0.00	0.00	0.40			
71	B	723918.01	750512.25	6.00	313.00	0.00	0.00	0.40			
72	B	723903.37	750498.52	6.00	313.00	0.00	0.00	0.40			
73	A	723924.55	750550.77	6.00	44.00	0.00	0.00	0.40			
74	A	723899.50	750577.29	6.00	47.00	0.00	0.00	0.40			
75	B	723873.29	750596.60	6.00	82.00	0.00	0.00	0.40			
76	A	723849.96	750579.40	6.00	134.00	0.00	0.00	0.40			
77	B	723836.19	750555.85	6.00	183.00	0.00	0.00	0.40			
78	D	723827.26	750499.94	6.00	8.00	0.00	0.00	0.40			

Layout Continued

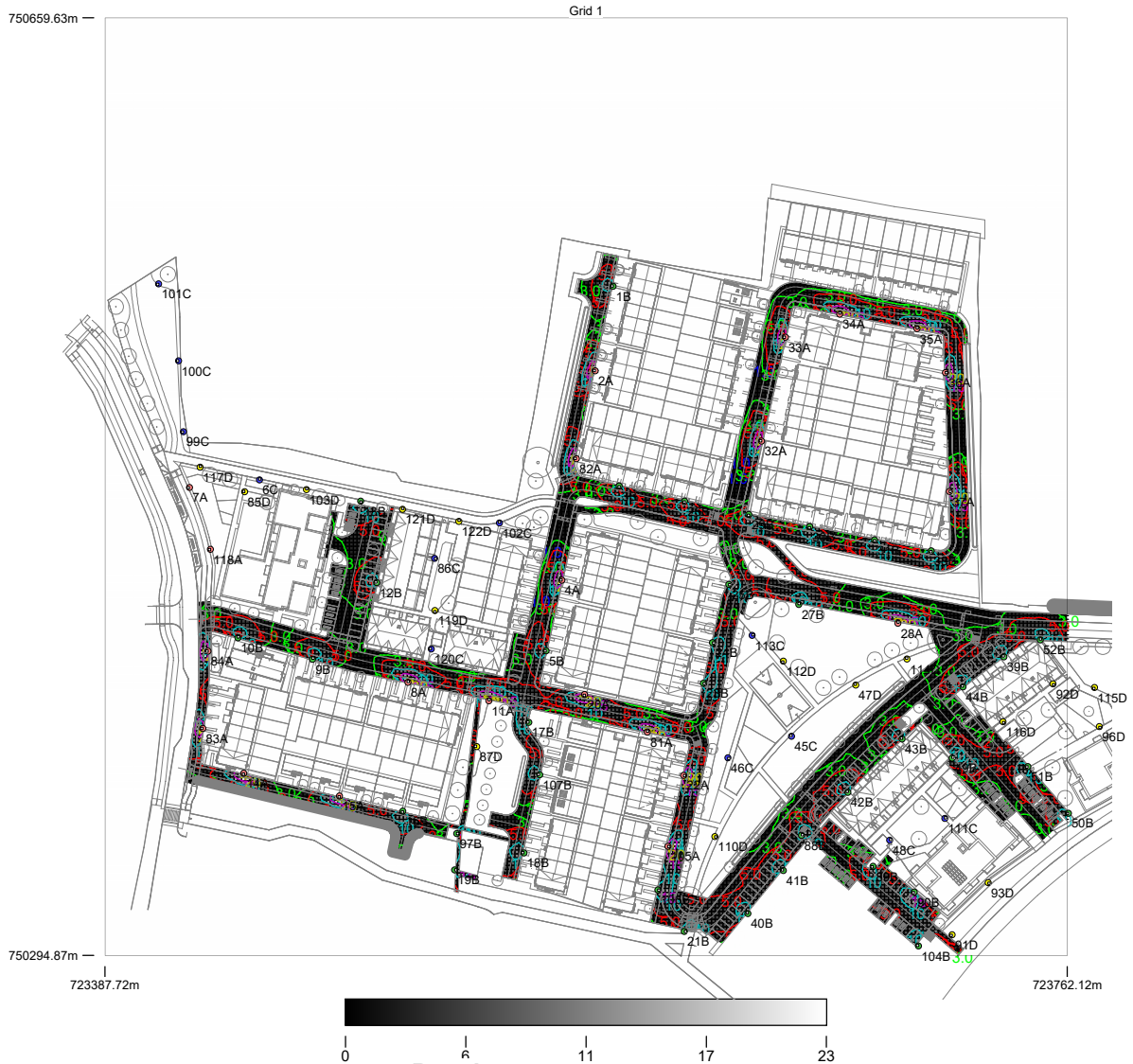
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
79	D	723828.32	750532.59	6.00	13.00	0.00	0.00	0.40			
80	B	723846.79	750537.31	6.00	222.00	0.00	0.00	0.40			
81	A	723598.66	750381.84	6.00	77.00	0.00	0.00	0.40			
82	A	723571.06	750488.20	6.00	167.00	0.00	0.00	0.40			
83	A	723425.80	750383.24	6.00	175.00	0.00	0.00	0.40			
84	A	723427.78	750413.28	6.00	180.00	0.00	0.00	0.40			
85	D	723442.09	750475.34	6.00	159.00	0.00	0.00	0.40			
86	C	723515.89	750449.43	6.00	345.00	0.00	0.00	0.40			
87	D	723532.28	750376.23	6.00	170.00	0.00	0.00	0.40			
88	B	723658.70	750341.68	6.00	46.00	0.00	0.00	0.40			
89	B	723686.43	750329.69	6.00	227.00	0.00	0.00	0.40			
90	B	723702.49	750319.69	6.00	222.00	0.00	0.00	0.40			
91	D	723717.18	750303.04	6.00	227.00	0.00	0.00	0.40			
92	D	723756.48	750400.59	6.00	301.00	0.00	0.00	0.40			
93	D	723731.27	750323.33	6.00	322.00	0.00	0.00	0.40			
94	D	723780.72	750356.68	6.00	303.00	0.00	0.00	0.40			
95	D	723805.41	750370.57	6.00	301.00	0.00	0.00	0.40			
96	D	723774.49	750383.95	6.00	300.00	0.00	0.00	0.40			
97	B	723524.52	750342.43	6.00	359.00	0.00	0.00	0.40			
98	A	723879.93	750396.64	6.00	272.00	0.00	0.00	0.40			
99	C	723418.25	750498.62	6.00	184.00	0.00	0.00	0.40			
100	C	723416.36	750526.26	6.00	180.00	0.00	0.00	0.40			
101	C	723408.52	750556.13	6.00	215.00	0.00	0.00	0.40			
102	C	723541.17	750463.17	6.00	92.00	0.00	0.00	0.40			
103	D	723466.12	750476.11	6.00	78.00	0.00	0.00	0.40			
104	B	723704.09	750298.67	6.00	140.00	0.00	0.00	0.40			
105	A	723606.64	750337.47	6.00	340.00	0.00	0.00	0.40			
106	B	723602.73	750320.50	6.00	341.00	0.00	0.00	0.40			
107	B	723556.78	750365.30	6.00	168.00	0.00	0.00	0.40			
108	B	723869.21	750443.29	6.00	136.00	0.00	0.00	0.40			
109	B	723968.34	750510.10	6.00	106.00	0.00	0.00	0.40			
110	D	723624.93	750341.26	6.00	330.00	0.00	0.00	0.40			
111	C	723714.39	750348.23	6.00	44.00	0.00	0.00	0.40			
112	D	723651.58	750409.38	6.00	222.00	0.00	0.00	0.40			
113	C	723639.50	750419.51	6.00	32.00	0.00	0.00	0.40			
114	D	723699.72	750410.22	6.00	109.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
115	D	723772.62	750399.22	6.00	240.00	0.00	0.00	0.40			
116	D	723736.98	750385.87	6.00	311.00	0.00	0.00	0.40			
117	D	723424.69	750484.86	6.00	75.00	0.00	0.00	0.40			
118	A	723428.73	750452.95	6.00	198.00	0.00	0.00	0.40			
119	D	723516.06	750429.07	6.00	277.00	0.00	0.00	0.40			
120	C	723514.66	750414.21	6.00	167.00	0.00	0.00	0.40			
121	D	723503.47	750468.50	6.00	73.00	0.00	0.00	0.40			
122	D	723525.35	750463.82	6.00	75.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1



Results

Eav	5.90
Emin	1.18
Emax	22.63
Emin/Emax	0.05
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 2

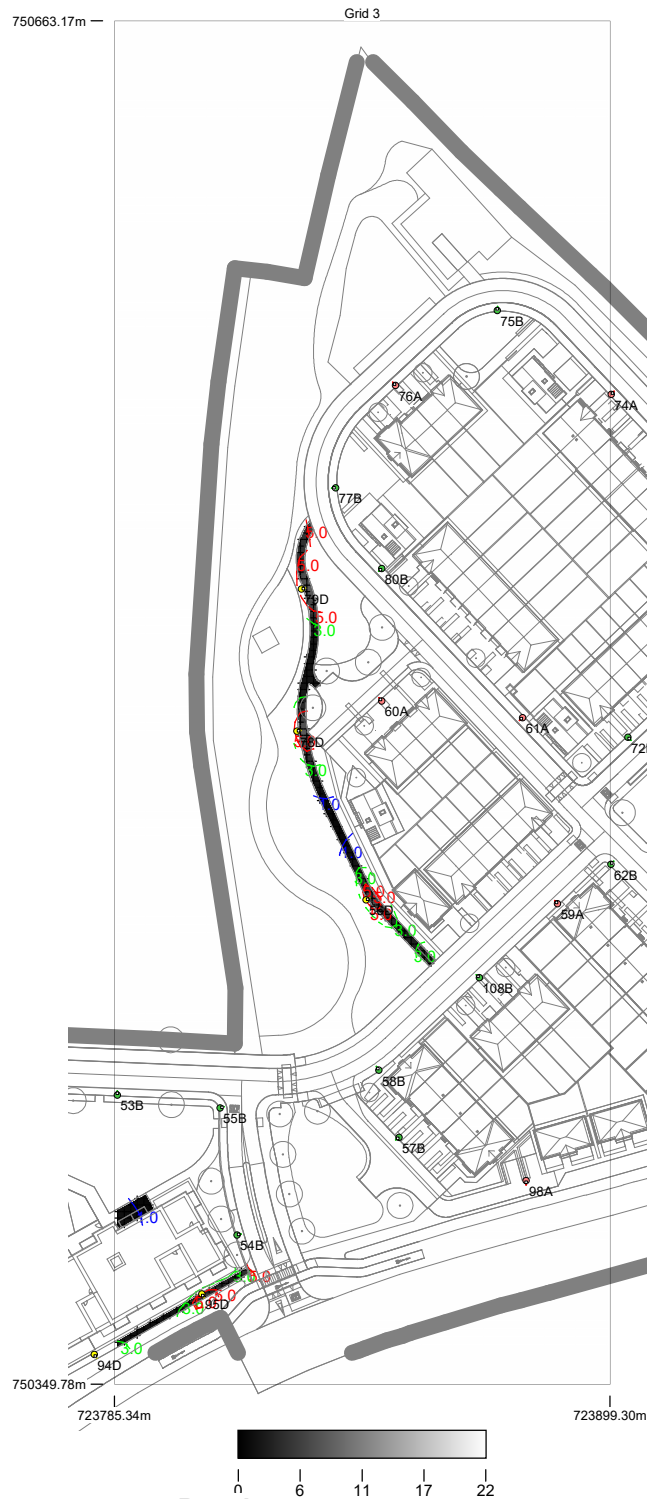


Results

Eav	5.88
Emin	1.20
Emax	22.48
Emin/Emax	0.05
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 3



Results

Eav	3.23
Emin	0.70
Emax	8.49
Emin/Emax	0.08
Emin/Eav	0.22

Horizontal Illuminance (lux)

Grid 4



Results

Eav	3.03
Emin	0.69
Emax	9.10
Emin/Emax	0.08
Emin/Eav	0.23

Horizontal Illuminance (lux)

Grid 5



Results

Eav	4.29
Emin	0.85
Emax	22.36
Emin/Emax	0.04
Emin/Eav	0.20