

**DATE:** 29 April 2026  
**DESIGNER:** Petro Lozenko  
**PROJECT No:** 3359  
**PROJECT NAME:** Mooretown Phase 2

**LIGHTING  
REALITY**

Lighting class Design to EN13201 / BS 5489  
Grid 1-3 (Roadway & 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	716524.16	747833.93	153.80	194.13	1.49	1.49
2	Grid 2	716528.45	747561.12	247.18	233.16	1.50	1.49
3	Grid 3	716341.82	747331.33	307.70	324.51	1.49	1.50

### Luminaires

#### Luminaire A Data



Supplier	C U Phosco
Type	P852K-12-P4-NW-CB0700-27W
Lamp(s)	740C
Lamp Flux (klm)	3.51
File Name	P852K-12-P4-NW-CB0700-27W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	747.2, 125.8, 0.0
No. in Project	29

#### Luminaire B Data



Supplier	C U Phosco
Type	P852K-12-F2-NW-CB0800-31W
Lamp(s)	740C
Lamp Flux (klm)	3.84
File Name	P852K-12-F2-NW-CB0800-31W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	761.9, 260.5, 34.9
No. in Project	61

#### Luminaire C Data



Supplier	C U Phosco
Type	P852K-12-P4-NW-CB0700-27W
Lamp(s)	740C
Lamp Flux (klm)	3.51
File Name	P852K-12-P4-NW-CB0700-27W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	747.2, 125.8, 0.0
No. in Project	11

#### Luminaire D Data



Supplier	C U Phosco
Type	P852K-12-F2-NW-CB0800-31W
Lamp(s)	740C
Lamp Flux (klm)	3.84
File Name	P852K-12-F2-NW-CB0800-31W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	761.9, 260.5, 34.9
No. in Project	13

### Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	716594.36	748007.38	6.00	151.00	0.00	0.00	0.40			
2	A	716578.05	747979.65	6.00	152.00	0.00	0.00	0.40			
3	A	716624.92	748007.69	6.00	61.00	0.00	0.00	0.40			
4	A	716637.99	747981.76	6.00	0.00	0.00	0.00	0.40			
5	B	716624.65	747969.03	6.00	309.00	0.00	0.00	0.40			
6	B	716603.08	747956.04	6.00	297.00	0.00	0.00	0.40			
7	B	716588.05	747950.11	6.00	248.00	0.00	0.00	0.40			
8	B	716569.20	747953.82	6.00	319.00	0.00	0.00	0.40			

**Layout Continued**

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
9	B	716548.43	747938.22	6.00	118.00	0.00	0.00	0.40			
10	A	716534.08	747909.66	6.00	172.00	0.00	0.00	0.40			
11	B	716540.62	747888.71	6.00	273.00	0.00	0.00	0.40			
12	B	716583.82	747916.75	6.00	7.00	0.00	0.00	0.40			
13	B	716568.80	747889.16	6.00	270.00	0.00	0.00	0.40			
14	B	716584.29	747892.02	6.00	0.00	0.00	0.00	0.40			
15	B	716613.46	747889.97	6.00	268.00	0.00	0.00	0.40			
16	B	716643.27	747890.48	6.00	274.00	0.00	0.00	0.40			
17	A	716561.65	747852.60	6.00	1.00	0.00	0.00	0.40			
18	B	716650.11	747926.81	6.00	356.00	0.00	0.00	0.40			
19	B	716654.49	747905.38	6.00	359.00	0.00	0.00	0.40			
20	B	716638.54	747945.65	6.00	61.00	0.00	0.00	0.40			
21	B	716767.81	747783.21	6.00	233.00	0.00	0.00	0.40			
22	B	716734.37	747778.17	6.00	244.00	0.00	0.00	0.40			
23	B	716755.12	747756.40	6.00	53.00	0.00	0.00	0.40			
24	A	716721.75	747736.76	6.00	330.00	0.00	0.00	0.40			
25	A	716704.54	747705.76	6.00	330.00	0.00	0.00	0.40			
26	B	716686.34	747672.94	6.00	330.00	0.00	0.00	0.40			
27	B	716675.46	747675.93	6.00	243.00	0.00	0.00	0.40			
28	B	716650.50	747689.88	6.00	243.00	0.00	0.00	0.40			
29	B	716644.22	747656.85	6.00	286.00	0.00	0.00	0.40			
30	B	716682.29	747643.38	6.00	137.00	0.00	0.00	0.40			
31	B	716614.30	747650.19	6.00	286.00	0.00	0.00	0.40			
32	B	716696.24	747713.46	6.00	55.00	0.00	0.00	0.40			
33	B	716675.66	747724.77	6.00	55.00	0.00	0.00	0.40			
34	A	716688.58	747761.11	6.00	150.00	0.00	0.00	0.40			
35	B	716706.76	747780.25	6.00	240.00	0.00	0.00	0.40			
36	A	716661.02	747709.84	6.00	153.00	0.00	0.00	0.40			
38	A	716571.72	747650.05	6.00	14.00	0.00	0.00	0.40			
39	B	716615.45	747673.66	6.00	109.00	0.00	0.00	0.40			
40	B	716582.91	747670.66	6.00	94.00	0.00	0.00	0.40			
41	A	716547.85	747656.84	6.00	117.00	0.00	0.00	0.40			
42	A	716516.65	747638.03	6.00	120.00	0.00	0.00	0.40			
43	B	716491.23	747609.04	6.00	124.00	0.00	0.00	0.40			
44	A	716456.71	747600.86	6.00	121.00	0.00	0.00	0.40			
45	B	716497.47	747592.49	6.00	206.00	0.00	0.00	0.40			

**Layout Continued**

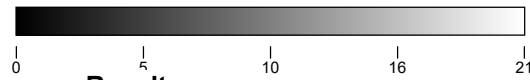
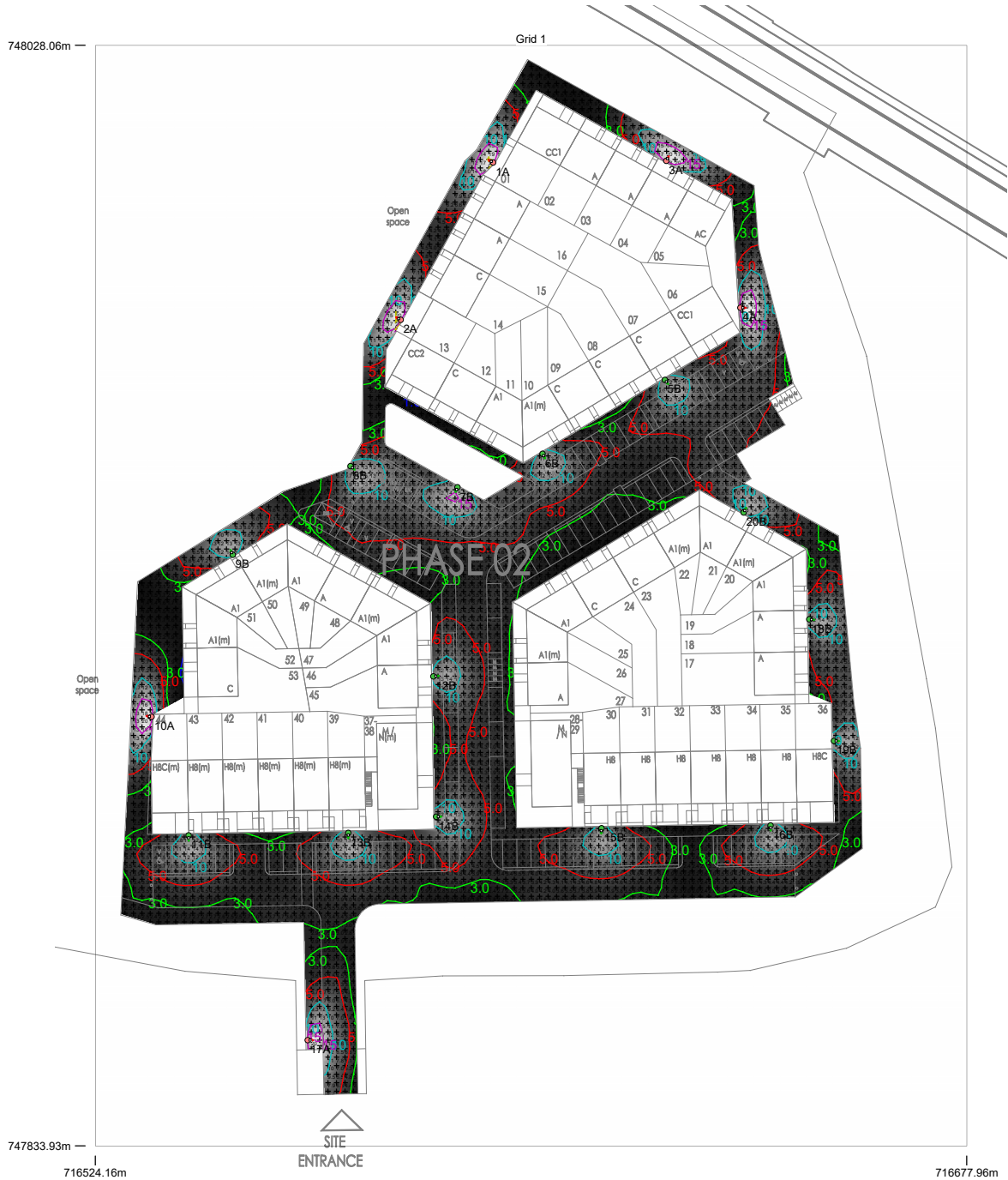
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
46	B	716502.75	747562.91	6.00	175.00	0.00	0.00	0.40			
47	B	716504.48	747535.70	6.00	214.00	0.00	0.00	0.40			
48	A	716525.58	747519.67	6.00	63.00	0.00	0.00	0.40			
49	B	716556.53	747513.20	6.00	242.00	0.00	0.00	0.40			
50	A	716589.78	747498.87	6.00	242.00	0.00	0.00	0.40			
51	A	716627.71	747482.27	6.00	245.00	0.00	0.00	0.40			
53	A	716606.68	747459.31	6.00	154.00	0.00	0.00	0.40			
54	A	716592.56	747426.82	6.00	154.00	0.00	0.00	0.40			
55	A	716577.59	747392.46	6.00	154.00	0.00	0.00	0.40			
56	B	716553.66	747345.58	6.00	62.00	0.00	0.00	0.40			
57	A	716566.75	747367.31	6.00	154.00	0.00	0.00	0.40			
58	B	716533.82	747395.09	6.00	64.00	0.00	0.00	0.40			
59	B	716513.29	747404.01	6.00	64.00	0.00	0.00	0.40			
60	B	716488.21	747414.95	6.00	64.00	0.00	0.00	0.40			
61	B	716464.56	747425.11	6.00	81.00	0.00	0.00	0.40			
62	A	716433.98	747425.27	6.00	90.00	0.00	0.00	0.40			
63	A	716402.04	747424.86	6.00	91.00	0.00	0.00	0.40			
64	B	716370.19	747424.49	6.00	91.00	0.00	0.00	0.40			
65	B	716372.57	747453.44	6.00	177.00	0.00	0.00	0.40			
66	B	716554.28	747386.24	6.00	66.00	0.00	0.00	0.40			
67	B	716378.47	747490.01	6.00	268.00	0.00	0.00	0.40			
68	B	716409.50	747490.42	6.00	268.00	0.00	0.00	0.40			
69	B	716442.61	747481.94	6.00	96.00	0.00	0.00	0.40			
70	B	716469.35	747493.64	6.00	282.00	0.00	0.00	0.40			
71	A	716362.11	747499.61	6.00	0.00	0.00	0.00	0.40			
72	B	716464.88	747455.21	6.00	359.00	0.00	0.00	0.40			
73	B	716487.56	747470.73	6.00	152.00	0.00	0.00	0.40			
74	B	716509.70	747477.38	6.00	248.00	0.00	0.00	0.40			
75	B	716361.82	747525.53	6.00	0.00	0.00	0.00	0.40			
76	B	716396.41	747528.68	6.00	95.00	0.00	0.00	0.40			
77	B	716366.23	747552.91	6.00	16.00	0.00	0.00	0.40			
78	B	716419.73	747529.04	6.00	87.00	0.00	0.00	0.40			
79	A	716368.25	747591.11	6.00	351.00	0.00	0.00	0.40			
80	B	716392.16	747589.36	6.00	87.00	0.00	0.00	0.40			
81	A	716413.78	747589.66	6.00	82.00	0.00	0.00	0.40			
82	B	716417.29	747568.63	6.00	349.00	0.00	0.00	0.40			

**Layout Continued**

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
83	B	716420.54	747512.56	6.00	358.00	0.00	0.00	0.40			
84	B	716450.82	747549.32	6.00	274.00	0.00	0.00	0.40			
85	B	716494.16	747507.98	6.00	161.00	0.00	0.00	0.40			
86	B	716470.94	747559.09	6.00	298.00	0.00	0.00	0.40			
87	B	716478.43	747529.83	6.00	26.00	0.00	0.00	0.40			
88	B	716535.22	747482.14	6.00	339.00	0.00	0.00	0.40			
89	A	716526.92	747441.67	6.00	339.00	0.00	0.00	0.40			
90	A	716532.10	747457.86	6.00	65.00	0.00	0.00	0.40			
91	A	716579.13	747447.13	6.00	243.00	0.00	0.00	0.40			
90	C	716404.62	747605.72	6.00	262.00	0.00	0.00	0.40			
91	C	716435.10	747605.32	6.00	292.00	0.00	0.00	0.40			
92	D	716463.16	747630.91	6.00	298.00	0.00	0.00	0.40			
93	D	716491.78	747648.02	6.00	296.00	0.00	0.00	0.40			
94	D	716516.88	747663.15	6.00	296.00	0.00	0.00	0.40			
95	B	716604.76	747638.07	6.00	194.00	0.00	0.00	0.40			
96	D	716543.74	747679.24	6.00	298.00	0.00	0.00	0.40			
97	D	716569.65	747691.43	6.00	281.00	0.00	0.00	0.40			
98	D	716602.89	747697.75	6.00	281.00	0.00	0.00	0.40			
99	D	716625.09	747711.06	6.00	297.00	0.00	0.00	0.40			
100	C	716641.13	747703.45	6.00	326.00	0.00	0.00	0.40			
101	D	716647.59	747729.54	6.00	337.00	0.00	0.00	0.40			
102	D	716657.34	747749.01	6.00	51.00	0.00	0.00	0.40			
103	D	716673.23	747775.78	6.00	337.00	0.00	0.00	0.40			
104	D	716691.66	747810.37	6.00	267.00	0.00	0.00	0.40			
105	D	716707.57	747793.70	6.00	157.00	0.00	0.00	0.40			
106	C	716706.24	747828.60	6.00	320.00	0.00	0.00	0.40			
107	C	716723.95	747816.59	6.00	144.00	0.00	0.00	0.40			
108	C	716722.14	747852.67	6.00	354.00	0.00	0.00	0.40			
109	C	716741.85	747843.04	6.00	164.00	0.00	0.00	0.40			
110	C	716721.75	747881.59	6.00	357.00	0.00	0.00	0.40			
111	C	716743.15	747884.21	6.00	174.00	0.00	0.00	0.40			
112	C	716722.42	747936.35	6.00	351.00	0.00	0.00	0.40			
113	C	716742.66	747918.20	6.00	178.00	0.00	0.00	0.40			
114	D	716749.51	747945.56	6.00	160.00	0.00	0.00	0.40			

## Horizontal Illuminance (lux)

Grid 1

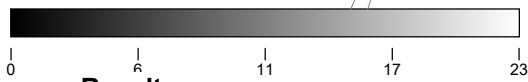


### Results

Eav	5.64
Emin	1.14
Emax	20.67
Emin/Emax	0.06
Emin/Eav	0.20

## Horizontal Illuminance (lux)

Grid 2

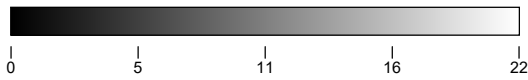


### Results

Eav	5.69
Emin	1.16
Emax	22.22
Emin/Emax	0.05
Emin/Eav	0.20

# Horizontal Illuminance (lux)

Grid 3



Grid 3

