

DATE: 12 April 2022
DESIGNER: Alex Naper
PROJECT No: SES 11121 Rev F
PROJECT NAME: Mooretown Phase 3 - Gerard Gannon Properties



Residential area designed in accordance with EN13201-2:2015 Category P4.

Rev A: Columns removed from green areas as per request.
Rev B: Updated site layout.
Rev D: Circuit Layout added.
Rev E: Updated site layout.
Rev F: Client name updated.

Outdoor Lighting Report

PREPARED BY: Sabre Electrical Services Ltd.
Unit 11,
Bellview Industrial Estate,
Tolka Valley Road,
Dublin 11
Phone Number: 01 8110875
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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	715892.84	747647.88	240.00	148.26	1.50	1.50
2	Grid 2	715796.31	747382.27	337.00	267.00	1.50	1.50
3	Grid 3	715748.90	747223.81	259.00	159.00	1.50	1.50
4	Grid 4	716133.30	747382.12	226.28	302.00	1.50	1.50

Luminaires

Luminaire A Data



Supplier	C U Phosco
Type	P852-12-P4-NW-CB0450-18W
Lamp(s)	740C NW
Lamp Flux (klm)	2.28
File Name	P852-12-P4-NW-CB0450-18W.ies
Maintenance Factor	0.86
Imax70,80,90(cd/klm)	760.6, 161.3, 0.8
No. in Project	108

Luminaire B Data



Supplier	C U Phosco
Type	P852-12-P4-WW-CA0200-9W
Lamp(s)	730C WW
Lamp Flux (klm)	1.03
File Name	P852-12-P4-WW-CA0200-9W.ies
Maintenance Factor	0.86
Imax70,80,90(cd/klm)	730.4, 161.4, 0.8
No. in Project	1

Luminaire C Data



Supplier	C U Phosco
Type	P852-12-P4-NW-CB0200-9W
Lamp(s)	740C NW
Lamp Flux (klm)	1.09
File Name	P852-12-P4-NW-CB0200-9W.ies
Maintenance Factor	0.86
Imax70,80,90(cd/klm)	760.6, 161.3, 0.8
No. in Project	26

Luminaire D Data



Supplier	C U Phosco
Type	P852-12-F2-NW-CB0450-18W
Lamp(s)	740C NW
Lamp Flux (klm)	2.24
File Name	P852-12-F2-NW-CB0450-18W.ies
Maintenance Factor	0.86
Imax70,80,90(cd/klm)	761.9, 260.5, 34.9
No. in Project	44

Luminaire E Data



Supplier	Urbis Schreder
Type	INDU WALL PACK 1 6550 Integrated lenses 24 LM302D@88mA NW 8
Lamp(s)	24 LM302D@88mA NW 840 230V
LampFlux(klm)/Colour	1.87 NW 4000K/80
File Name	INDU WALL PACK 1 6550 24 LM302D 88mA NW 840 15W 450172 Integrated lenses ...
Maintenance Factor	0.86
Imax70,80,90(cd/klm)	301.4, 52.3, 7.4
No. in Project	1

Luminaire H Data



Supplier	C U Phosco
Type	P862-32-P3-NW-B0850-83W
Lamp(s)	740P NW
Lamp Flux (klm)	8.52
File Name	P862-32-P3-NW-B0850-83W.ies
Maintenance Factor	0.86
Imax70,80,90(cd/klm)	868.8, 322.9, 0.0
No. in Project	11

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	715971.97	747665.62	6.00	9.00	0.00	0.00	0.40			
2	A	715983.87	747689.09	6.00	187.00	0.00	0.00	0.40			
3	A	715973.82	747712.49	6.00	357.00	0.00	0.00	0.40			
4	A	715983.67	747735.20	6.00	182.00	0.00	0.00	0.40			
5	D	716030.21	747628.13	6.00	184.00	0.00	0.00	0.40			
6	A	715963.24	747737.57	6.00	93.00	0.00	0.00	0.40			
7	A	715927.83	747736.64	6.00	91.00	0.00	0.00	0.40			
8	A	716043.44	747669.39	6.00	0.00	0.00	0.00	0.40			
9	A	716058.35	747688.88	6.00	185.00	0.00	0.00	0.40			
10	D	716015.97	747600.51	6.00	353.00	0.00	0.00	0.40			
11	D	716091.02	747705.06	6.00	192.00	0.00	0.00	0.40			
12	A	716074.77	747708.94	6.00	100.00	0.00	0.00	0.40			
13	A	716058.71	747716.71	6.00	187.00	0.00	0.00	0.40			
14	A	716044.70	747704.22	6.00	354.00	0.00	0.00	0.40			
15	A	716045.54	747723.52	6.00	346.00	0.00	0.00	0.40			
16	A	716068.55	747668.42	6.00	273.00	0.00	0.00	0.40			
17	A	716086.83	747658.01	6.00	186.00	0.00	0.00	0.40			
18	H	715935.27	747650.09	8.00	271.00	0.00	0.00	0.40			
19	H	715971.21	747651.31	8.00	271.00	0.00	0.00	0.40			
20	H	716011.74	747639.50	8.00	103.00	0.00	0.00	0.40			
21	H	716052.43	747643.82	8.00	97.00	0.00	0.00	0.40			
22	H	716086.69	747643.19	8.00	271.00	0.00	0.00	0.40			
23	H	716123.69	747644.77	8.00	271.00	0.00	0.00	0.40			
24	H	716169.17	747645.88	8.00	271.00	0.00	0.00	0.40			
25	H	716216.50	747640.08	8.00	258.00	0.00	0.00	0.40			
26	H	716258.88	747631.75	8.00	257.00	0.00	0.00	0.40			
27	D	716027.48	747585.28	6.00	173.00	0.00	0.00	0.40			
28	D	716014.57	747565.40	6.00	352.00	0.00	0.00	0.40			
29	A	716042.53	747565.06	6.00	265.00	0.00	0.00	0.40			
30	D	716020.11	747542.40	6.00	164.00	0.00	0.00	0.40			
31	D	716011.79	747517.29	6.00	161.00	0.00	0.00	0.40			
32	D	716000.34	747554.93	6.00	262.00	0.00	0.00	0.40			
33	D	715945.83	747564.85	6.00	260.00	0.00	0.00	0.40			
34	D	715968.63	747560.76	6.00	263.00	0.00	0.00	0.40			
35	C	715917.48	747568.14	5.00	263.00	0.00	0.00	0.40			
36	D	715914.79	747540.65	6.00	339.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
37	D	715931.97	747570.92	6.00	347.00	0.00	0.00	0.40			
38	C	715891.11	747518.58	5.00	59.00	0.00	0.00	0.40			
39	A	715889.48	747488.95	6.00	76.00	0.00	0.00	0.40			
40	A	715863.47	747497.86	6.00	51.00	0.00	0.00	0.40			
41	A	715875.58	747480.42	6.00	163.00	0.00	0.00	0.40			
42	A	715868.95	747451.82	6.00	160.00	0.00	0.00	0.40			
43	A	715862.19	747422.77	6.00	164.00	0.00	0.00	0.40			
44	A	715856.63	747398.36	6.00	165.00	0.00	0.00	0.40			
45	A	715851.10	747374.46	6.00	166.00	0.00	0.00	0.40			
46	A	715876.90	747431.81	6.00	258.00	0.00	0.00	0.40			
47	A	715900.30	747427.60	6.00	261.00	0.00	0.00	0.40			
48	A	715919.44	747423.08	6.00	261.00	0.00	0.00	0.40			
49	A	715957.63	747414.39	6.00	255.00	0.00	0.00	0.40			
50	A	715976.31	747408.31	6.00	177.00	0.00	0.00	0.40			
51	D	715984.78	747462.05	6.00	166.00	0.00	0.00	0.40			
52	D	715999.30	747489.76	6.00	150.00	0.00	0.00	0.40			
53	A	716046.07	747439.48	6.00	179.00	0.00	0.00	0.40			
54	D	715914.10	747515.58	6.00	84.00	0.00	0.00	0.40			
55	A	716051.38	747467.60	6.00	137.00	0.00	0.00	0.40			
56	A	716053.68	747491.82	6.00	181.00	0.00	0.00	0.40			
57	A	716052.81	747515.80	6.00	184.00	0.00	0.00	0.40			
58	D	716074.05	747483.48	6.00	267.00	0.00	0.00	0.40			
59	D	716101.39	747483.53	6.00	270.00	0.00	0.00	0.40			
60	E	716296.53	747561.60	3.00	173.00	0.00	0.00	0.40			
61	A	716114.21	747491.99	6.00	4.00	0.00	0.00	0.40			
62	D	716114.74	747442.91	6.00	0.00	0.00	0.00	0.40			
63	A	716137.13	747483.98	6.00	274.00	0.00	0.00	0.40			
64	A	716126.71	747509.14	6.00	184.00	0.00	0.00	0.40			
65	A	716112.47	747527.16	6.00	1.00	0.00	0.00	0.40			
66	A	716124.61	747542.27	6.00	183.00	0.00	0.00	0.40			
67	A	716086.45	747558.73	6.00	270.00	0.00	0.00	0.40			
68	A	716051.30	747548.42	6.00	184.00	0.00	0.00	0.40			
69	A	716065.41	747553.26	6.00	86.00	0.00	0.00	0.40			
70	A	716104.98	747549.09	6.00	95.00	0.00	0.00	0.40			
71	A	716111.08	747561.79	6.00	358.00	0.00	0.00	0.40			
72	A	716140.04	747555.19	6.00	270.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
73	A	716122.30	747580.67	6.00	196.00	0.00	0.00	0.40			
74	A	716109.28	747607.74	6.00	357.00	0.00	0.00	0.40			
75	A	716063.45	747597.87	6.00	356.00	0.00	0.00	0.40			
76	A	716139.43	747616.75	6.00	273.00	0.00	0.00	0.40			
77	A	716093.78	747603.29	6.00	267.00	0.00	0.00	0.40			
78	D	716113.32	747469.56	6.00	1.00	0.00	0.00	0.40			
79	A	716121.64	747423.82	6.00	91.00	0.00	0.00	0.40			
80	A	716105.00	747435.49	6.00	270.00	0.00	0.00	0.40			
81	A	716077.82	747422.92	6.00	96.00	0.00	0.00	0.40			
82	A	716058.12	747434.84	6.00	274.00	0.00	0.00	0.40			
83	A	716021.86	747430.90	6.00	267.00	0.00	0.00	0.40			
84	A	715991.37	747430.70	6.00	270.00	0.00	0.00	0.40			
85	A	715963.91	747384.44	6.00	352.00	0.00	0.00	0.40			
86	A	715973.80	747369.90	6.00	175.00	0.00	0.00	0.40			
87	A	715910.78	747493.62	6.00	261.00	0.00	0.00	0.40			
88	A	715932.97	747481.08	6.00	78.00	0.00	0.00	0.40			
89	A	715957.46	747485.12	6.00	260.00	0.00	0.00	0.40			
90	A	715973.81	747471.65	6.00	81.00	0.00	0.00	0.40			
91	D	715979.92	747435.39	6.00	178.00	0.00	0.00	0.40			
92	A	716010.85	747614.26	6.00	263.00	0.00	0.00	0.40			
93	C	715962.40	747619.87	6.00	269.00	0.00	0.00	0.40			
94	C	715968.60	747623.50	5.00	0.00	0.00	0.00	0.40			
95	D	715934.72	747587.24	6.00	349.00	0.00	0.00	0.40			
96	C	715939.82	747608.58	5.00	164.00	0.00	0.00	0.40			
97	D	715985.30	747605.47	6.00	350.00	0.00	0.00	0.40			
98	A	715960.27	747351.87	6.00	356.00	0.00	0.00	0.40			
99	A	715970.48	747337.47	6.00	169.00	0.00	0.00	0.40			
100	A	715957.07	747321.25	6.00	352.00	0.00	0.00	0.40			
101	D	715948.59	747333.75	6.00	81.00	0.00	0.00	0.40			
102	D	715919.86	747338.70	6.00	83.00	0.00	0.00	0.40			
103	A	715910.12	747329.47	6.00	165.00	0.00	0.00	0.40			
104	A	715907.31	747300.72	6.00	176.00	0.00	0.00	0.40			
105	A	715921.71	747282.54	6.00	270.00	0.00	0.00	0.40			
106	A	715944.02	747282.51	6.00	274.00	0.00	0.00	0.40			
107	D	715892.99	747343.58	6.00	77.00	0.00	0.00	0.40			
108	D	715876.26	747358.90	6.00	254.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
109	D	715852.82	747348.06	6.00	86.00	0.00	0.00	0.40			
110	D	715860.31	747327.67	6.00	343.00	0.00	0.00	0.40			
111	D	715828.34	747367.09	6.00	260.00	0.00	0.00	0.40			
112	D	715803.61	747371.80	6.00	259.00	0.00	0.00	0.40			
113	A	715907.21	747254.55	6.00	185.00	0.00	0.00	0.40			
114	D	715869.72	747312.96	6.00	80.00	0.00	0.00	0.40			
115	A	716213.50	747414.43	6.00	180.00	0.00	0.00	0.40			
116	A	716170.89	747424.22	6.00	87.00	0.00	0.00	0.40			
117	A	716198.19	747436.70	6.00	266.00	0.00	0.00	0.40			
118	A	715967.64	747307.77	6.00	176.00	0.00	0.00	0.40			
119	A	715953.63	747293.44	6.00	354.00	0.00	0.00	0.40			
120	C	716158.27	747627.39	5.00	358.00	0.00	0.00	0.40			
121	D	716139.99	747596.38	6.00	357.00	0.00	0.00	0.40			
122	A	716180.33	747615.67	6.00	266.00	0.00	0.00	0.40			
123	D	716187.49	747585.97	6.00	94.00	0.00	0.00	0.40			
124	A	716230.02	747616.54	6.00	168.00	0.00	0.00	0.40			
125	A	716214.53	747600.74	6.00	357.00	0.00	0.00	0.40			
126	C	716233.03	747579.82	5.00	184.00	0.00	0.00	0.40			
127	A	716246.18	747604.19	6.00	259.00	0.00	0.00	0.40			
128	A	716276.59	747598.23	6.00	260.00	0.00	0.00	0.40			
129	C	716273.93	747571.90	5.00	85.00	0.00	0.00	0.40			
130	C	716251.63	747564.55	5.00	2.00	0.00	0.00	0.40			
131	C	716176.79	747578.26	5.00	352.00	0.00	0.00	0.40			
132	D	716252.52	747582.91	6.00	347.00	0.00	0.00	0.40			
133	A	716242.30	747558.67	6.00	264.00	0.00	0.00	0.40			
134	A	716223.82	747540.00	6.00	6.00	0.00	0.00	0.40			
135	A	716258.90	747541.41	6.00	78.00	0.00	0.00	0.40			
136	A	716288.35	747552.35	6.00	258.00	0.00	0.00	0.40			
137	A	716304.54	747532.83	6.00	82.00	0.00	0.00	0.40			
138	A	716316.78	747548.59	6.00	264.00	0.00	0.00	0.40			
139	A	716322.76	747531.35	6.00	26.00	0.00	0.00	0.40			
140	A	716324.72	747480.72	6.00	352.00	0.00	0.00	0.40			
141	A	716325.98	747511.22	6.00	357.00	0.00	0.00	0.40			
142	A	716323.31	747462.96	6.00	80.00	0.00	0.00	0.40			
143	A	716287.73	747476.78	6.00	263.00	0.00	0.00	0.40			
144	A	716256.05	747478.97	6.00	264.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
145	A	716236.98	747521.07	6.00	182.00	0.00	0.00	0.40			
146	D	716287.87	747581.43	6.00	352.00	0.00	0.00	0.40			
147	A	716204.39	747546.87	6.00	92.00	0.00	0.00	0.40			
148	A	716226.88	747493.93	6.00	0.00	0.00	0.00	0.40			
149	A	716226.41	747456.25	6.00	347.00	0.00	0.00	0.40			
150	A	716215.46	747427.16	6.00	90.00	0.00	0.00	0.40			
151	A	716212.39	747397.74	6.00	88.00	0.00	0.00	0.40			
152	A	716147.14	747436.03	6.00	268.00	0.00	0.00	0.40			
153	A	716181.87	747484.44	6.00	265.00	0.00	0.00	0.40			
154	A	716203.15	747473.69	6.00	95.00	0.00	0.00	0.40			
155	A	716215.67	747485.47	6.00	272.00	0.00	0.00	0.40			
156	D	716328.86	747560.48	6.00	354.00	0.00	0.00	0.40			
157	D	716329.94	747580.95	6.00	349.00	0.00	0.00	0.40			
158	C	716293.17	747604.72	5.00	345.00	0.00	0.00	0.40			
159	C	716195.58	747570.27	5.00	1.00	0.00	0.00	0.40			
160	A	716176.89	747554.19	6.00	269.00	0.00	0.00	0.40			
161	A	716157.25	747546.32	6.00	91.00	0.00	0.00	0.40			
162	C	716205.05	747613.27	5.00	261.00	0.00	0.00	0.40			
163	H	716298.39	747624.34	8.00	257.00	0.00	0.00	0.40			
164	H	716337.46	747616.79	8.00	257.00	0.00	0.00	0.40			
165	A	716119.10	747629.82	6.00	177.00	0.00	0.00	0.40			
166	C	715896.04	747507.00	5.00	345.00	0.00	0.00	0.40			
167	D	715917.87	747561.79	5.00	329.00	0.00	0.00	0.40			
168	D	715980.66	747584.56	6.00	335.00	0.00	0.00	0.40			
169	A	715938.43	747418.80	6.00	258.00	0.00	0.00	0.40			
170	C	715955.93	747581.79	5.00	78.00	0.00	0.00	0.40			
171	C	715987.34	747566.42	5.00	340.00	0.00	0.00	0.40			
172	A	715947.00	747540.82	6.00	175.00	0.00	0.00	0.40			
173	A	715940.18	747504.19	6.00	175.00	0.00	0.00	0.40			
174	C	716169.61	747593.31	5.00	272.00	0.00	0.00	0.40			
175	D	716161.52	747598.33	6.00	185.00	0.00	0.00	0.40			
176	D	716194.62	747606.19	6.00	173.00	0.00	0.00	0.40			
177	A	716157.08	747471.19	6.00	90.00	0.00	0.00	0.40			
178	A	716221.09	747565.76	6.00	0.00	0.00	0.00	0.40			
179	D	716286.42	747507.43	6.00	169.00	0.00	0.00	0.40			
180	C	716303.72	747486.47	5.00	350.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
181	C	716302.29	747516.28	5.00	350.00	0.00	0.00	0.40			
182	C	716274.12	747491.98	5.00	171.00	0.00	0.00	0.40			
183	B	716281.67	747528.58	6.00	176.00	0.00	0.00	0.40			
184	C	716284.87	747496.93	5.00	264.00	0.00	0.00	0.40			
185	C	715931.59	747619.35	6.00	269.00	0.00	0.00	0.40			
186	C	715913.95	747268.65	5.00	90.00	0.00	0.00	0.40			
187	C	715944.99	747268.43	5.00	86.00	0.00	0.00	0.40			
188	C	715971.58	747268.02	5.00	60.00	0.00	0.00	0.40			
189	C	716206.64	747587.34	5.00	268.00	0.00	0.00	0.40			
190	D	716331.10	747601.20	6.00	349.00	0.00	0.00	0.40			
191	D	716301.45	747593.86	6.00	259.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1



Results

Eav	5.83
Emin	1.15
Emax	18.03
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 2

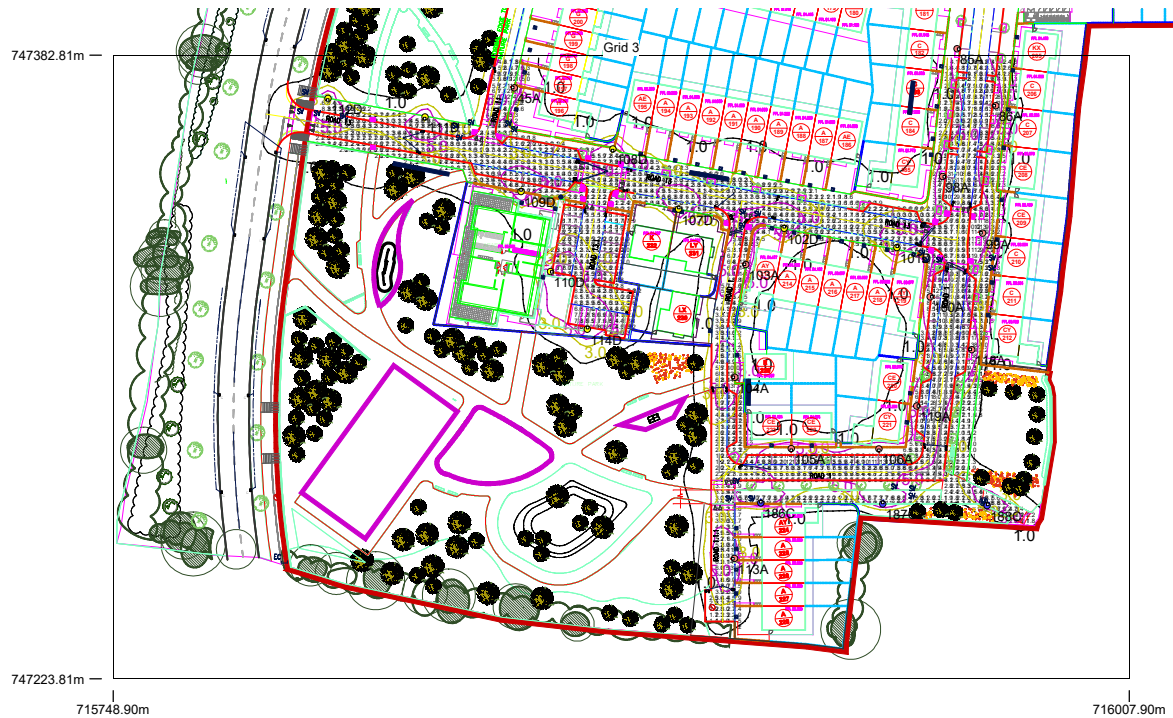


Results

Eav	5.30
Emin	1.04
Emax	18.53
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 3



Results

Eav	5.10
Emin	1.01
Emax	16.01
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 4



Results

Eav	5.42
Emin	1.06
Emax	50.65
Emin/Emax	0.02
Emin/Eav	0.20