

DATE: 29 August 2025
DESIGNER: Thomas McCormack / Ross Traynor
PROJECT No: 25018-E-PL-100
PROJECT NAME: Rathmullan

**LIGHTING
REALITY**

Designed in accordance with ISEN 13201-2:2015 Class P4 & in accordance with Louth County Councils " Standard Generic Public Lighting Conditions".

Public Lighting Report

PREPARED BY: McElligott Consulting Engineers
D4 Riverview Business Park,
Nangor Road,
Dublin 12

Layout Report

General Data

Dimensions in Metres Angles in Degrees
Grid Origin 706002.7m x 775071.5m
Area 364.6m x 355.6m
Sample Spacing 1.48m x 1.48m

Luminaires



Luminaire A Data

Supplier	C U Phosco
Type	E950-28-P4A-730-C550-14W
Lamp(s)	730N
Lamp Flux (klm)	2.08
File Name	E950-28-P4A-730-C0550-14W.ies
Maintenance Factor	0.82
Imax70,80,90(cd/klm)	659.3, 183.1, 0.3
No. in Project	64



Luminaire B Data

Supplier	C U Phosco
Type	E950-28-R3A-730-C250-7W
Lamp(s)	730N
Lamp Flux (klm)	1.00
File Name	E950-28-R3A-730-C0250-7W.ies
Maintenance Factor	0.82
Imax70,80,90(cd/klm)	716.7, 30.5, 0.3
No. in Project	34

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	706315.60	775088.22	6.00	350.00	0.00	0.00	0.40			
2	A	706312.94	775109.29	6.00	237.00	0.00	0.00	0.40			
3	A	706295.58	775105.58	6.00	55.00	0.00	0.00	0.40			
4	A	706290.15	775124.70	6.00	245.00	0.00	0.00	0.40			
5	A	706262.45	775129.61	6.00	57.00	0.00	0.00	0.40			
6	A	706248.04	775149.54	6.00	242.00	0.00	0.00	0.40			
7	B	706269.58	775110.81	6.00	219.00	0.00	0.00	0.40			
8	A	706227.46	775151.93	6.00	45.00	0.00	0.00	0.40			
9	A	706221.81	775173.60	6.00	221.00	0.00	0.00	0.40			
10	B	706241.56	775136.72	6.00	71.00	0.00	0.00	0.40			
11	A	706201.19	775185.63	6.00	29.00	0.00	0.00	0.40			
12	A	706200.44	775209.12	6.00	214.00	0.00	0.00	0.40			
13	A	706179.18	775223.80	6.00	29.00	0.00	0.00	0.40			
14	A	706167.96	775239.19	6.00	47.00	0.00	0.00	0.40			
15	A	706146.40	775244.74	6.00	104.00	0.00	0.00	0.40			
16	A	706115.92	775244.33	6.00	292.00	0.00	0.00	0.40			
17	A	706127.26	775231.32	6.00	202.00	0.00	0.00	0.40			
18	A	706094.50	775224.92	6.00	105.00	0.00	0.00	0.40			
19	A	706064.99	775240.00	6.00	268.00	0.00	0.00	0.40			
20	A	706058.81	775224.65	6.00	88.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
21	A	706028.46	775239.93	6.00	270.00	0.00	0.00	0.40			
22	A	706019.37	775224.70	6.00	90.00	0.00	0.00	0.40			
23	A	706010.36	775261.49	6.00	176.00	0.00	0.00	0.40			
24	A	706013.09	775196.43	6.00	188.00	0.00	0.00	0.40			
25	A	706079.91	775247.42	6.00	196.00	0.00	0.00	0.40			
26	A	706077.66	775268.97	6.00	179.00	0.00	0.00	0.40			
27	A	706008.67	775295.74	6.00	177.00	0.00	0.00	0.40			
28	B	706023.93	775281.77	6.00	91.00	0.00	0.00	0.40			
29	A	706012.78	775222.15	6.00	180.00	0.00	0.00	0.40			
30	A	706014.20	775178.09	6.00	179.00	0.00	0.00	0.40			
31	A	706031.08	775165.60	6.00	92.00	0.00	0.00	0.40			
32	A	706058.59	775175.38	6.00	269.00	0.00	0.00	0.40			
33	A	706088.65	775165.23	6.00	87.00	0.00	0.00	0.40			
34	A	706106.86	775175.52	6.00	272.00	0.00	0.00	0.40			
35	A	706133.05	775175.70	6.00	112.00	0.00	0.00	0.40			
36	A	706162.26	775187.82	6.00	110.00	0.00	0.00	0.40			
37	A	706130.70	775203.50	6.00	22.00	0.00	0.00	0.40			
38	A	706184.59	775197.10	6.00	115.00	0.00	0.00	0.40			
39	A	706044.57	775151.50	6.00	178.00	0.00	0.00	0.40			
40	A	706044.57	775117.53	6.00	183.00	0.00	0.00	0.40			
41	A	706044.95	775087.56	6.00	180.00	0.00	0.00	0.40			
42	B	706057.46	775090.00	6.00	89.00	0.00	0.00	0.40			
43	B	706077.40	775096.67	6.00	267.00	0.00	0.00	0.40			
44	A	706103.20	775093.48	6.00	182.00	0.00	0.00	0.40			
45	B	706084.67	775084.83	6.00	92.00	0.00	0.00	0.40			
46	B	706057.83	775079.51	6.00	130.00	0.00	0.00	0.40			
47	B	706085.33	775077.51	6.00	79.00	0.00	0.00	0.40			
48	A	706093.53	775124.57	6.00	354.00	0.00	0.00	0.40			
49	A	706093.62	775151.78	6.00	353.00	0.00	0.00	0.40			
50	A	706117.80	775121.98	6.00	269.00	0.00	0.00	0.40			
51	A	706141.34	775126.06	6.00	291.00	0.00	0.00	0.40			
52	B	706148.56	775112.33	6.00	92.00	0.00	0.00	0.40			
53	A	706152.30	775093.10	6.00	356.00	0.00	0.00	0.40			
54	A	706165.51	775136.03	6.00	297.00	0.00	0.00	0.40			
55	A	706190.96	775136.87	6.00	114.00	0.00	0.00	0.40			
56	A	706217.08	775134.58	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
57	A	706178.90	775082.15	6.00	272.00	0.00	0.00	0.40			
58	A	706216.05	775082.23	6.00	267.00	0.00	0.00	0.40			
59	A	706246.86	775082.71	6.00	268.00	0.00	0.00	0.40			
60	A	706261.40	775092.17	6.00	19.00	0.00	0.00	0.40			
61	A	706241.70	775118.80	6.00	46.00	0.00	0.00	0.40			
62	A	706298.29	775141.60	6.00	154.00	0.00	0.00	0.40			
63	A	706305.51	775171.76	6.00	178.00	0.00	0.00	0.40			
64	A	706287.98	775197.99	6.00	236.00	0.00	0.00	0.40			
65	A	706264.20	775221.34	6.00	217.00	0.00	0.00	0.40			
66	A	706249.41	775243.43	6.00	216.00	0.00	0.00	0.40			
67	A	706232.64	775268.82	6.00	216.00	0.00	0.00	0.40			
68	A	706214.83	775290.57	6.00	234.00	0.00	0.00	0.40			
69	A	706186.77	775308.62	6.00	244.00	0.00	0.00	0.40			
70	A	706158.61	775315.58	6.00	271.00	0.00	0.00	0.40			
71	A	706126.32	775316.39	6.00	271.00	0.00	0.00	0.40			
72	A	706088.77	775315.79	6.00	272.00	0.00	0.00	0.40			
73	A	706077.50	775301.11	6.00	179.00	0.00	0.00	0.40			
74	B	706034.46	775294.30	6.00	1.00	0.00	0.00	0.40			
75	B	706035.39	775261.49	6.00	346.00	0.00	0.00	0.40			
76	B	706052.65	775280.03	6.00	88.00	0.00	0.00	0.40			
77	B	706039.37	775245.63	6.00	195.00	0.00	0.00	0.40			
78	B	706283.59	775092.03	6.00	144.00	0.00	0.00	0.40			
79	B	706295.61	775093.52	6.00	59.00	0.00	0.00	0.40			
80	B	706214.35	775151.35	6.00	82.00	0.00	0.00	0.40			
81	B	706208.61	775166.71	6.00	24.00	0.00	0.00	0.40			
82	B	706223.91	775203.81	6.00	123.00	0.00	0.00	0.40			
83	B	706233.41	775219.74	6.00	291.00	0.00	0.00	0.40			
84	B	706157.68	775267.51	6.00	144.00	0.00	0.00	0.40			
85	B	706151.73	775283.82	6.00	14.00	0.00	0.00	0.40			
86	B	706163.05	775297.43	6.00	140.00	0.00	0.00	0.40			
87	B	706032.65	775315.11	6.00	271.00	0.00	0.00	0.40			
88	B	706056.98	775314.83	6.00	269.00	0.00	0.00	0.40			
89	B	706193.01	775179.98	6.00	24.00	0.00	0.00	0.40			
90	B	706201.29	775160.35	6.00	23.00	0.00	0.00	0.40			
91	B	706152.16	775323.95	6.00	250.00	0.00	0.00	0.40			
92	B	706129.24	775335.33	6.00	30.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
93	B	706131.47	775356.64	6.00	294.00	0.00	0.00	0.40			
94	B	706160.80	775357.88	6.00	266.00	0.00	0.00	0.40			
95	B	706184.05	775351.28	6.00	239.00	0.00	0.00	0.40			
96	B	706198.71	775335.45	6.00	224.00	0.00	0.00	0.40			
97	B	706214.13	775321.86	6.00	232.00	0.00	0.00	0.40			
98	B	706176.79	775317.92	6.00	260.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1



Results

Eav	5.06
Emin	1.04
Emax	16.23
Emin/Emax	0.06
Emin/Eav	0.20