

**DATE:** 26 January 2022  
**DESIGNER:** James Molloy MILP  
**PROJECT No:** PL1796  
**PROJECT NAME:** Blarney 2 (rev4)

**LIGHTING  
REALITY**

Lighting Design to BS EN 5489-1: 2020  
Lighting Class P4 (S/P Ratio deemed unsuitable for LED fittings in  
upcoming edition of BS EN 5489)

Eav Sought: 5 lux  
Emin Sought: 1 lux  
UO Sought: 0.2

## Outdoor Lighting Report

## Layout Report

### General Data

Dimensions in Metres Angles in Degrees  
Grid Origin 273039.2m x 129733.3m  
Area 374.7m x 239.1m  
Sample Spacing 1.50m x 1.49m

### Luminaires



#### Luminaire A Data

Supplier	Philips
Type	BGP702 DX10
Lamp(s)	LED-HB 5.2S 730
Lamp Flux (klm)	3.40
File Name	Luma Gen2 Micro_BGP702_DX10_3400_20LED_5.2S_CLO_L90_730.ies
Maintenance Factor	0.77
Imax70,80,90(cd/klm)	522.9, 97.5, 0.0
No. in Project	42



#### Luminaire B Data

Supplier	Philips
Type	BGP702 DW50
Lamp(s)	LED-HB 5.2S 730
Lamp Flux (klm)	2.00
File Name	Luma Gen2 Micro_BGP702_DW50_2000_10LED_5.2S_CLO_L90_730.ies
Maintenance Factor	0.77
Imax70,80,90(cd/klm)	595.5, 51.0, 0.0
No. in Project	17

### Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	273333.89	129755.69	6.00	91.00	0.00	0.00	0.30			
2	A	273306.37	129757.01	6.00	76.00	0.00	0.00	0.30			
3	A	273283.68	129766.97	6.00	50.00	0.00	0.00	0.30			
4	A	273252.34	129787.68	6.00	67.00	0.00	0.00	0.30			
5	A	273279.53	129791.69	6.00	186.00	0.00	0.00	0.30			
6	A	273225.99	129793.79	6.00	85.00	0.00	0.00	0.30			
7	A	273201.57	129793.68	6.00	91.00	0.00	0.00	0.30			
8	A	273188.78	129810.01	6.00	273.00	0.00	0.00	0.30			
9	A	273184.85	129779.94	6.00	128.00	0.00	0.00	0.30			
10	A	273213.76	129817.61	6.00	179.00	0.00	0.00	0.30			
11	A	273213.11	129837.33	6.00	177.00	0.00	0.00	0.30			
12	A	273212.65	129856.67	6.00	184.00	0.00	0.00	0.30			
13	A	273274.83	129820.47	6.00	196.00	0.00	0.00	0.30			
14	A	273280.33	129843.01	6.00	177.00	0.00	0.00	0.30			
15	A	273256.95	129851.70	6.00	0.00	0.00	0.00	0.30			
16	B	273245.57	129817.94	6.00	271.00	0.00	0.00	0.30			
17	B	273230.34	129817.56	6.00	272.00	0.00	0.00	0.30			
18	A	273198.51	129873.43	6.00	281.00	0.00	0.00	0.30			
19	A	273171.67	129858.77	6.00	91.00	0.00	0.00	0.30			
20	A	273139.56	129857.81	6.00	92.00	0.00	0.00	0.30			

**Layout Continued**

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
21	B	273163.56	129885.83	6.00	174.00	0.00	0.00	0.30			
22	B	273140.23	129885.12	6.00	0.00	0.00	0.00	0.30			
23	B	273139.32	129909.62	6.00	0.00	0.00	0.00	0.30			
24	B	273162.82	129910.53	6.00	180.00	0.00	0.00	0.30			
25	A	273108.27	129870.59	6.00	272.00	0.00	0.00	0.30			
26	A	273086.45	129861.22	6.00	0.00	0.00	0.00	0.30			
27	A	273112.88	129847.71	6.00	200.00	0.00	0.00	0.30			
28	A	273100.40	129829.45	6.00	27.00	0.00	0.00	0.30			
29	A	273114.80	129812.35	6.00	105.00	0.00	0.00	0.30			
30	B	273103.23	129790.49	6.00	93.00	0.00	0.00	0.30			
31	B	273127.84	129791.32	6.00	91.00	0.00	0.00	0.30			
32	B	273168.95	129792.65	6.00	95.00	0.00	0.00	0.30			
33	B	273133.71	129779.51	6.00	0.00	0.00	0.00	0.30			
34	B	273133.01	129816.89	6.00	276.00	0.00	0.00	0.30			
35	B	273159.50	129817.68	6.00	277.00	0.00	0.00	0.30			
36	B	273162.97	129837.09	6.00	9.00	0.00	0.00	0.30			
37	B	273287.44	129852.68	6.00	197.00	0.00	0.00	0.30			
38	A	273225.01	129874.47	6.00	272.00	0.00	0.00	0.30			
39	A	273241.11	129860.60	6.00	91.00	0.00	0.00	0.30			
40	A	273259.61	129861.19	6.00	94.00	0.00	0.00	0.30			
41	A	273283.10	129870.61	6.00	128.00	0.00	0.00	0.30			
42	A	273300.19	129890.01	6.00	103.00	0.00	0.00	0.30			
43	A	273326.79	129895.19	6.00	102.00	0.00	0.00	0.30			
44	A	273353.30	129900.42	6.00	99.00	0.00	0.00	0.30			
45	A	273378.55	129905.57	6.00	102.00	0.00	0.00	0.30			
47	A	273280.53	129912.15	6.00	39.00	0.00	0.00	0.30			
48	A	273261.08	129923.67	6.00	85.00	0.00	0.00	0.30			
49	A	273239.88	129923.02	6.00	89.00	0.00	0.00	0.30			
50	A	273210.23	129922.01	6.00	92.00	0.00	0.00	0.30			
51	A	273180.60	129919.66	6.00	91.00	0.00	0.00	0.30			
52	A	273150.55	129923.48	6.00	91.00	0.00	0.00	0.30			
53	A	273121.14	129917.62	6.00	92.00	0.00	0.00	0.30			
54	A	273092.71	129918.21	6.00	91.00	0.00	0.00	0.30			
55	A	273073.73	129917.54	6.00	89.00	0.00	0.00	0.30			
58	A	273257.29	129838.84	6.00	0.00	0.00	0.00	0.30			
59	A	273061.34	129922.06	6.00	17.00	0.00	0.00	0.30			

**Layout Continued**

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
61	B	273150.30	129792.07	6.00	95.00	0.00	0.00	0.30			
58	B	273179.39	129824.68	6.00	184.00	0.00	0.00	0.30			
59	B	273195.23	129839.97	6.00	185.00	0.00	0.00	0.30			

## Horizontal Illuminance (lux)

Grid 1



### Results

Eav	5.26
Emin	1.34
Emax	14.09
Emin/Emax	0.09
Emin/Eav	0.25