

**DATE:** 10 February 2026  
**DESIGNER:** M Buckley CEng MIEI MCIBSE  
**PROJECT No:** 1617  
**PROJECT NAME:** Blarney Housing



Main Spine Road P3  
Residential Estate Class P4  
Entrance Conflict zone C3  
Having consulted ILP GN08/23 (Bats & Artificial Lighting), the following mitigation measures have been included in the design:  
Rear louver to be fitted to all fittings along the hedgerows as noted on drawing (RL) (not possible to show this on lux contours)  
3000K Light fittings used typically  
2700K Light Fittings used on Western and southern boundry Lights and southern pedestrian areas reduced to 4m in height  
U14 Dimming Profile photocells to be fitted on all streetlight  
Luminaires 83A,10B,86B,84A to be LED version of Urbis Kensington (Ldt files not currently available)  
Any Lights outside of taking in charge area to be metered separetly via dedicated micropillars.

## **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	Work Area	560596.55	575613.29	301.68	240.18	1.21	0.96
2	Work Area	560821.16	575808.11	16.73	12.99	1.39	1.44
3	Grid 3	560616.64	575743.69	231.81	58.80	1.50	1.47
4	Grid 4	560650.31	575632.70	13.65	109.26	1.36	1.50
5	Grid 5	560767.37	575651.39	14.21	106.85	1.42	1.48

### Luminaires

#### Luminaire A Data

Supplier	
Type	LumiStreet gen2 Eco
Lamp(s)	LED20 L96@100kh /740 T25
Lamp Flux (klm)	2.00
File Name	BGS010 T25 FP LED20 L96@100kh-740 D W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	689.8, 26.2, 0.0
No. in Project	49

#### Luminaire B Data

Supplier	
Type	LumiStreet gen2 Eco
Lamp(s)	LED74 L94@100kh /730 T25
Lamp Flux (klm)	7.40
File Name	BGS010 T25 FP LED74 L94@100kh-730 D W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	675.8, 25.6, 0.0
No. in Project	2

#### Luminaire C Data

Supplier	
Type	LumiStreet gen2 Eco
Lamp(s)	LED30 L96@100kh /730 T25
Lamp Flux (klm)	3.00
File Name	BGS010 T25 FP LED30 L96@100kh-730 D W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	689.8, 26.2, 0.0
No. in Project	14

#### Luminaire D Data

Supplier	Cree Lighting
Type	TRSA-02-ARS-4L27828W
Lamp(s)	8lu4L28W27K
Lamp Flux (klm)	3.43
File Name	TRSA-02-ARS-4L-278 28W-203-QL21-S05. IES
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	235.0, 18.4, 0.0
No. in Project	5



### Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
RL-1	A	560632.13	575827.61	6.00	282.00	0.00	0.00	0.50			
3	C	560674.44	575816.01	6.00	279.00	0.00	0.00	0.50			
4	C	560703.39	575820.90	6.00	279.00	0.00	0.00	0.50			
RL-5	A	560717.93	575841.65	6.00	302.00	0.00	0.00	0.50			
6	A	560673.06	575795.74	6.00	192.00	0.00	0.00	0.50			
HINGED 7	A	560740.27	575818.56	6.00	283.00	0.00	0.00	0.50			



**Layout Continued**

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
9	C	560776.46	575779.54	6.00	284.00	0.00	0.00	0.50			
10	C	560819.34	575796.88	6.00	303.00	0.00	0.00	0.50			
10	B	560822.52	575808.23	8.00	54.00	0.00	0.00	0.50			
HINGED 81	A	560692.14	575696.30	6.00	10.00	0.00	0.00	0.50			
HINGED 30	A	560688.59	575716.18	6.00	18.00	0.00	0.00	0.50			
16	A	560752.70	575765.76	6.00	0.00	0.00	0.00	0.50			
17	A	560749.11	575747.76	6.00	16.00	0.00	0.00	0.50			
18	A	560754.91	575731.64	6.00	11.00	0.00	0.00	0.50			
19	A	560750.96	575700.68	6.00	279.00	0.00	0.00	0.50			
20	A	560772.20	575659.22	6.00	8.00	0.00	0.00	0.50			
21	A	560792.85	575656.15	6.00	288.00	0.00	0.00	0.50			
RL 22	A	560771.85	575643.89	6.00	13.00	0.00	0.00	0.50			
RL 23	D	560647.66	575657.53	6.00	17.00	0.00	0.00	0.50			
RL 24	D	560640.27	575699.19	6.00	11.00	0.00	0.00	0.50			
25	A	560645.26	575754.97	6.00	284.00	0.00	0.00	0.50			
RL 26	D	560641.24	575715.56	6.00	0.00	0.00	0.00	0.50			
RL 27	D	560638.94	575731.90	6.00	273.00	0.00	0.00	0.50			
29	A	560688.59	575742.27	6.00	195.00	0.00	0.00	0.50			
HINGED31	A	560700.85	575749.14	6.00	11.00	0.00	0.00	0.50			
HINGED32	A	560738.34	575758.71	6.00	189.00	0.00	0.00	0.50			
RL-HINGED33	A	560671.76	575633.52	4.00	96.00	0.00	0.00	0.50			
RL-HINGED35	A	560691.58	575636.80	4.00	96.00	0.00	0.00	0.50			
RL-HINGED36	A	560733.75	575641.71	4.00	104.00	0.00	0.00	0.50			
HINGED39	A	560711.04	575678.91	6.00	13.00	0.00	0.00	0.50			
HINGED40	A	560715.93	575651.84	6.00	12.00	0.00	0.00	0.50			
41	A	560661.76	575683.86	6.00	276.00	0.00	0.00	0.50			
42	A	560732.38	575691.98	6.00	284.00	0.00	0.00	0.50			
HINGED49	A	560749.48	575806.51	6.00	270.00	0.00	0.00	0.50			
HINGED50	A	560690.76	575771.21	6.00	274.00	0.00	0.00	0.50			
HINGED51	A	560731.41	575777.52	6.00	287.00	0.00	0.00	0.50			
RL 52	D	560644.48	575677.03	6.00	12.00	0.00	0.00	0.50			
53	C	560657.27	575794.10	6.00	95.00	0.00	0.00	0.50			
55	A	560692.87	575684.97	6.00	280.00	0.00	0.00	0.50			
HINGED 57	A	560648.69	575808.37	6.00	190.00	0.00	0.00	0.50			
HINGED 58	A	560739.20	575729.10	6.00	97.00	0.00	0.00	0.50			
60	A	560670.81	575748.08	6.00	108.00	0.00	0.00	0.50			

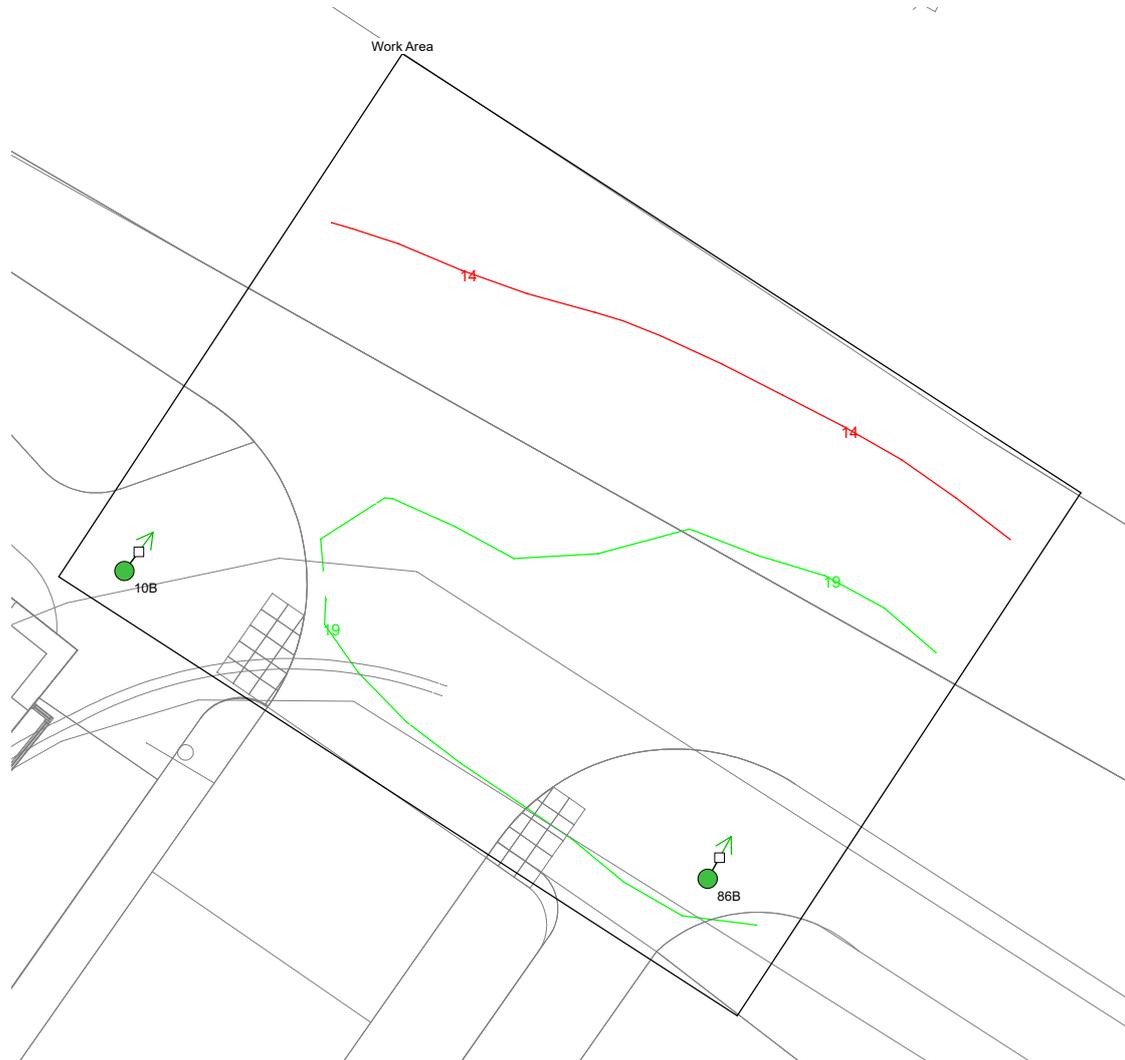


**Layout Continued**

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
RL HINGED 61	A	560755.26	575645.63	4.00	107.00	0.00	0.00	0.50			
62	C	560690.16	575802.95	6.00	102.00	0.00	0.00	0.50			
63	C	560725.52	575817.38	6.00	250.00	0.00	0.00	0.50			
HINGED 43	A	560705.99	575726.02	6.00	286.00	0.00	0.00	0.50			
65	A	560751.84	575688.56	6.00	99.00	0.00	0.00	0.50			
RL 66	A	560795.60	575637.19	6.00	97.00	0.00	0.00	0.50			
HINGED 67	A	560761.60	575790.26	6.00	192.00	0.00	0.00	0.50			
68	A	560758.58	575710.58	6.00	20.00	0.00	0.00	0.50			
RL-69	A	560626.05	575809.65	6.00	3.00	0.00	0.00	0.50			
72	C	560746.04	575777.88	6.00	43.00	0.00	0.00	0.50			
73	C	560802.34	575784.30	6.00	276.00	0.00	0.00	0.50			
74	A	560729.71	575828.40	6.00	186.00	0.00	0.00	0.50			
75	A	560770.53	575680.67	6.00	9.00	0.00	0.00	0.50			
HINGED 76	A	560710.18	575774.70	6.00	277.00	0.00	0.00	0.50			
RL HINGED 79	A	560711.05	575640.47	4.00	41.00	0.00	0.00	0.50			
80	A	560677.04	575772.64	6.00	184.00	0.00	0.00	0.50			
83	A	560673.18	575681.46	6.00	272.00	0.00	0.00	0.50			
HINGED 86	A	560720.33	575755.78	6.00	282.00	0.00	0.00	0.50			
70	C	560636.75	575790.76	6.00	95.00	0.00	0.00	0.50			
71	C	560734.24	575791.60	6.00	43.00	0.00	0.00	0.50			
83	C	560805.12	575818.98	6.00	53.00	0.00	0.00	0.50			
84	C	560844.88	575796.05	6.00	55.00	0.00	0.00	0.50			
86	B	560834.56	575801.83	8.00	61.00	0.00	0.00	0.50			
77	A	560660.34	575646.00	6.00	191.00	0.00	0.00	0.50			
78	C	560707.17	575805.56	6.00	102.00	0.00	0.00	0.50			
HINGED 80	A	560722.64	575722.19	6.00	193.00	0.00	0.00	0.50			
HINGED 82	A	560726.51	575700.48	6.00	189.00	0.00	0.00	0.50			
76	A	560711.73	575694.15	6.00	283.00	0.00	0.00	0.50			

## Horizontal Illuminance (lux)

Work Area



### Results

Eav	17.64
Emin	9.80
E <sub>max</sub>	21.66
E <sub>min</sub> /E <sub>max</sub>	0.45
E <sub>min</sub> /E <sub>av</sub>	0.56

## Horizontal Illuminance (lux)

Grid 3

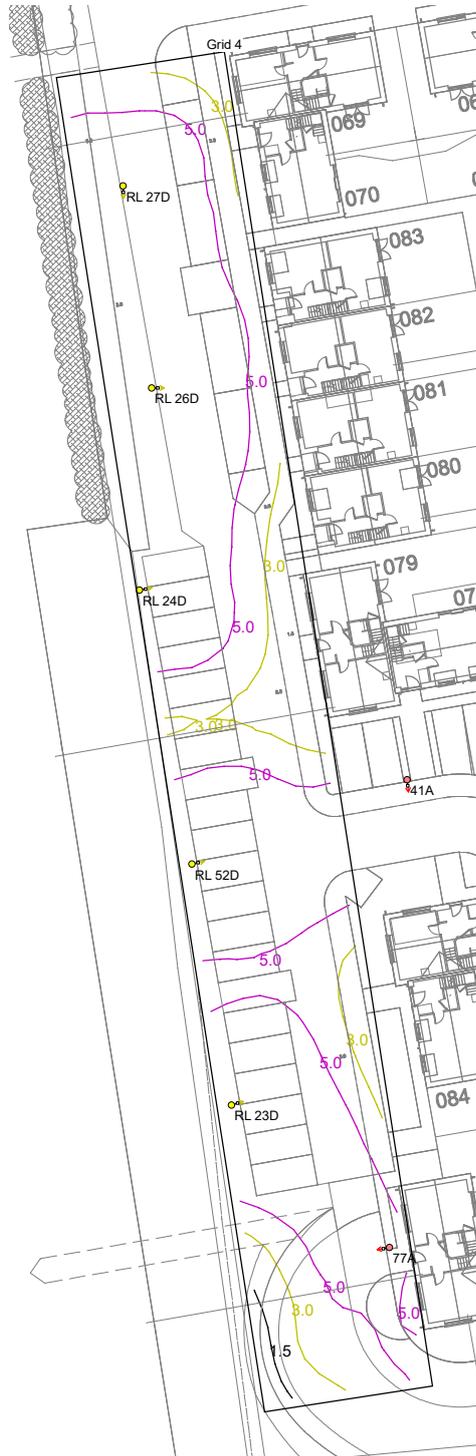


### Results

Eav	8.24
Emin	3.19
Emax	14.44
Emin/Emax	0.22
Emin/Eav	0.39

## Horizontal Illuminance (lux)

Grid 4

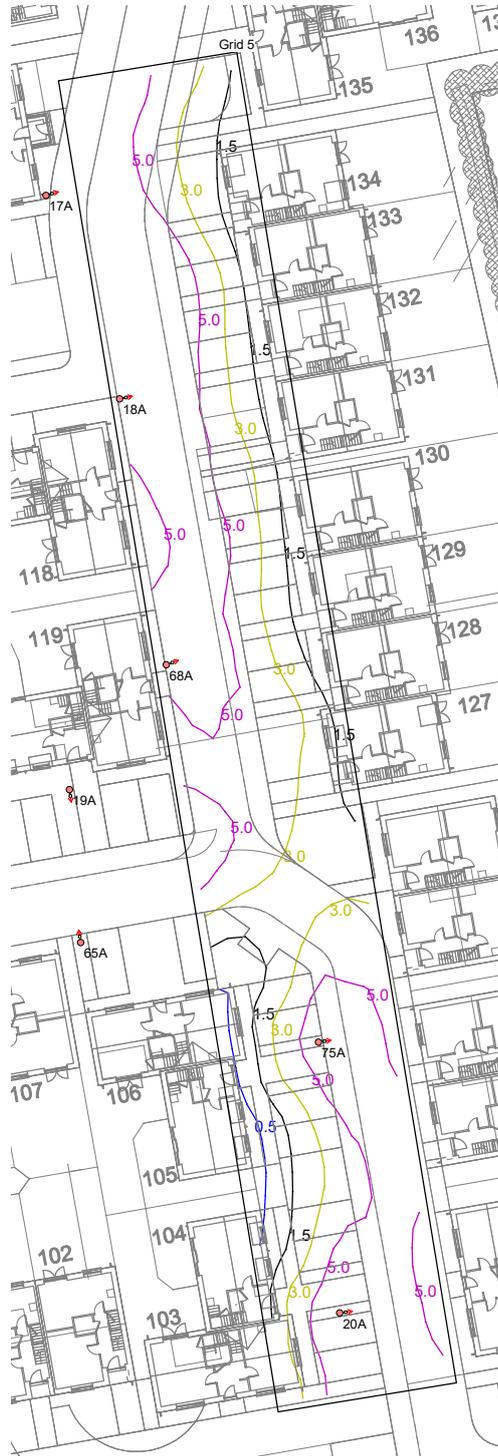


### Results

Eav	5.57
Emin	1.98
Emax	9.18
Emin/Emax	0.22
Emin/Eav	0.36

## Horizontal Illuminance (lux)

Grid 5



### Results

Eav	5.00
Emin	1.43
Emax	8.16
Emin/Emax	0.17
Emin/Eav	0.29

# Horizontal Illuminance (lux)

Work Area

