

**DATE:** 5 July 2023  
**DESIGNER:** RONAN MEALLY  
**PROJECT No:** 22K179  
**PROJECT NAME:** OLDCASTLE PUBLIC REALM



# Outdoor Lighting Report

LIGHTING DESIGNED TO IS EN 13201:2015 CLASS C3

**PREPARED BY:** Ronan Meally Consulting Engineers  
1 Clty Wall  
James Street  
Kilkenny

## 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	-78.28	-98.68	150.00	180.00	1.50	1.50
2	Grid 2	-21.63	-85.41	32.78	20.79	1.49	1.48
3	Grid 3	-3.41	-24.16	34.41	28.59	1.50	1.43

### Luminaires



#### Luminaire A Data

Supplier	Philips
Type	BSP641 PCO T25 DW10 LED91/- NO
Lamp(s)	LED91-4S/830
Lamp Flux (klm)	9.20
File Name	BSP641 PCO T25 1 xLED91-4S_830 DW10.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	148.4, 110.0, 74.5
No. in Project	25

#### Luminaire D Data

Supplier	
Type	BBP342 LED1200WW 12W 20D
Lamp(s)	LED
Lamp Flux (klm)	1.20
File Name	BBP342 LED1200WW 12W 20D 100-240V.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	2.9, 0.7, 0.2
No. in Project	8



#### Luminaire E Data

Supplier	Philips
Type	BSP641 FG T25 DX10 LED91/- NO
Lamp(s)	LED91-4S/830
Lamp Flux (klm)	9.20
File Name	BSP641 FG T25 1 xLED91-4S_830 DX10.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	335.2, 62.9, 0.0
No. in Project	10

### Layout

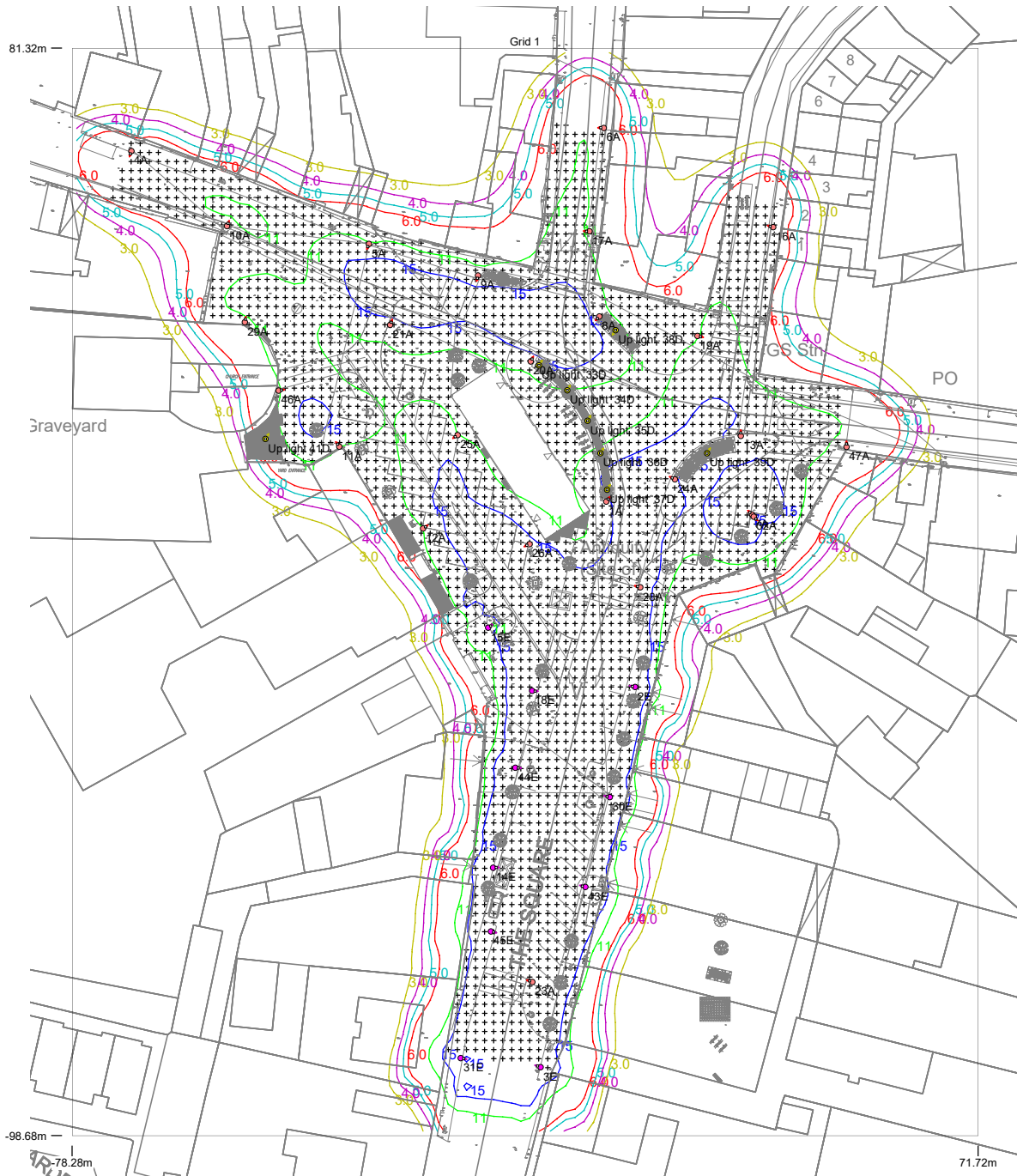
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	10.15	6.26	8.00	54.00	0.00	0.00	0.50			
2	E	14.92	-24.43	8.00	165.00	0.00	0.00	0.50			
3	E	-0.73	-87.30	8.00	163.00	5.00	0.00	0.50			
4	A	-68.48	64.29	8.00	252.00	0.00	0.00	0.50			
5	A	-29.13	48.91	8.00	248.00	0.00	0.00	0.50			
6	A	9.70	68.09	8.00	176.00	0.00	0.00	0.50			
7	A	34.27	4.13	8.00	137.00	0.00	0.00	0.50			
8	A	9.01	36.91	8.00	224.00	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	A	-11.08	43.71	8.00	256.00	0.00	0.00	0.50			
10	A	-52.64	51.86	8.00	68.00	0.00	0.00	0.50			
11	A	-34.05	15.37	8.00	126.00	0.00	0.00	0.50			
12	A	-20.20	1.83	8.00	32.00	0.00	0.00	0.50			
13	A	32.39	17.16	8.00	88.00	5.00	0.00	0.50			
14	E	-8.61	-54.29	8.00	1.00	0.00	0.00	0.50			
15	E	-9.40	-14.61	8.00	39.00	0.00	0.00	0.50			
16	A	37.76	51.70	8.00	166.00	0.00	0.00	0.50			
17	A	7.37	50.99	8.00	178.00	0.00	0.00	0.50			
18	E	-2.15	-25.04	8.00	356.00	0.00	0.00	0.50			
19	A	25.24	33.67	8.00	348.00	0.00	0.00	0.50			
20	A	-2.39	29.44	8.00	62.00	0.00	0.00	0.50			
21	A	-25.64	35.51	8.00	68.00	0.00	0.00	0.50			
23	A	-2.10	-73.23	6.00	160.00	0.00	0.00	0.50			
24	A	21.49	9.96	8.00	154.00	0.00	0.00	0.50			
25	A	-14.47	17.29	8.00	214.00	0.00	0.00	0.50			
26	A	-2.55	-0.75	8.00	205.00	0.00	0.00	0.50			
28	A	15.78	-7.92	6.00	164.00	0.00	0.00	0.50			
29	A	-49.67	35.95	8.00	80.00	0.00	0.00	0.50			
30	E	10.74	-42.66	8.00	165.00	0.00	0.00	0.50			
31	E	-13.95	-85.82	8.00	349.00	5.00	0.00	0.50			
32	A	34.52	3.77	8.00	316.00	0.00	0.00	0.50			
Up light 33	D	-1.00	28.83	0.00	58.00	0.00	0.00	0.00			
Up light 34	D	3.66	24.69	0.00	58.00	0.00	0.00	0.00			
Up light 35	D	7.03	19.64	0.00	58.00	0.00	0.00	0.00			
Up light 36	D	9.16	14.27	0.00	58.00	0.00	0.00	0.00			
Up light 37	D	10.26	8.25	0.00	58.00	0.00	0.00	0.00			
Up light 38	D	11.69	34.65	0.00	237.00	0.00	0.00	0.00			
Up light 39	D	26.82	14.29	0.00	58.00	0.00	0.00	0.00			
Up light 41	D	-46.27	16.64	0.00	58.00	0.00	0.00	0.00			
43	E	6.68	-57.48	8.00	165.00	0.00	0.00	0.50			
44	E	-4.92	-37.77	8.00	356.00	0.00	0.00	0.50			
45	E	-8.98	-64.84	8.00	345.00	0.00	0.00	0.50			
46	A	-44.10	24.65	8.00	9.00	0.00	0.00	0.50			
47	A	49.89	15.31	8.00	88.00	5.00	0.00	0.50			

# Horizontal Illuminance (lux)

Grid 1



## Results

Eav	15.55
Emin	6.57
Emax	34.33
Emin/Emax	0.19
Emin/Eav	0.42



