

**DATE:** 13 April 2022  
**DESIGNER:** Niall Beggan  
**PROJECT No:** 2746  
**PROJECT NAME:** PPP SHB3, Collins Avenue, Whitehall, Dublin 9

**LIGHTING  
REALITY**

Design Criteria  
Street & Car Parking P3  
Park Area P4  
Service road P4

6m Columns  
0 degree inclination  
4000k

## 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	Street & Car parking	238565.08	-18819.76	57.30	166.08	1.47	1.50
2	Park Area	238520.62	-18808.71	63.99	163.74	1.49	1.49
3	Service Road	238593.78	-18786.30	15.93	129.42	1.45	1.49

### Luminaires

#### Luminaire A Data

Supplier	Urbis Schreder
Type	AXIA 3.1 5267 Integrated lenses 16 OSLO N SQUARE GIANT@600mA
Lamp(s)	16 OSLO N SQUARE GIANT@600mA NW 740 230V 01-37-043
LampFlux(klm)/Colour	4.09 NW 4000K/70
File Name	AXIA 3.1 5267 16 OSLO N SQUARE GIANT 600mA NW 740 30.8W 429102 Integrated ...
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	985.2, 145.1, 0.0
No. in Project	8

#### Luminaire B Data

Supplier	Urbis Schreder
Type	AXIA 3.1 5296 Integrated lenses 8 OSLO N SQUARE GIANT@400mA N
Lamp(s)	8 OSLO N SQUARE GIANT@400mA NW 740 230V 01-37-041
LampFlux(klm)/Colour	1.45 NW 4000K/70
File Name	AXIA 3.1 5296 8 OSLO N SQUARE GIANT 400mA NW 740 11W 436952 Integrated len...
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	1243.8, 38.3, 0.0
No. in Project	12

### Layout

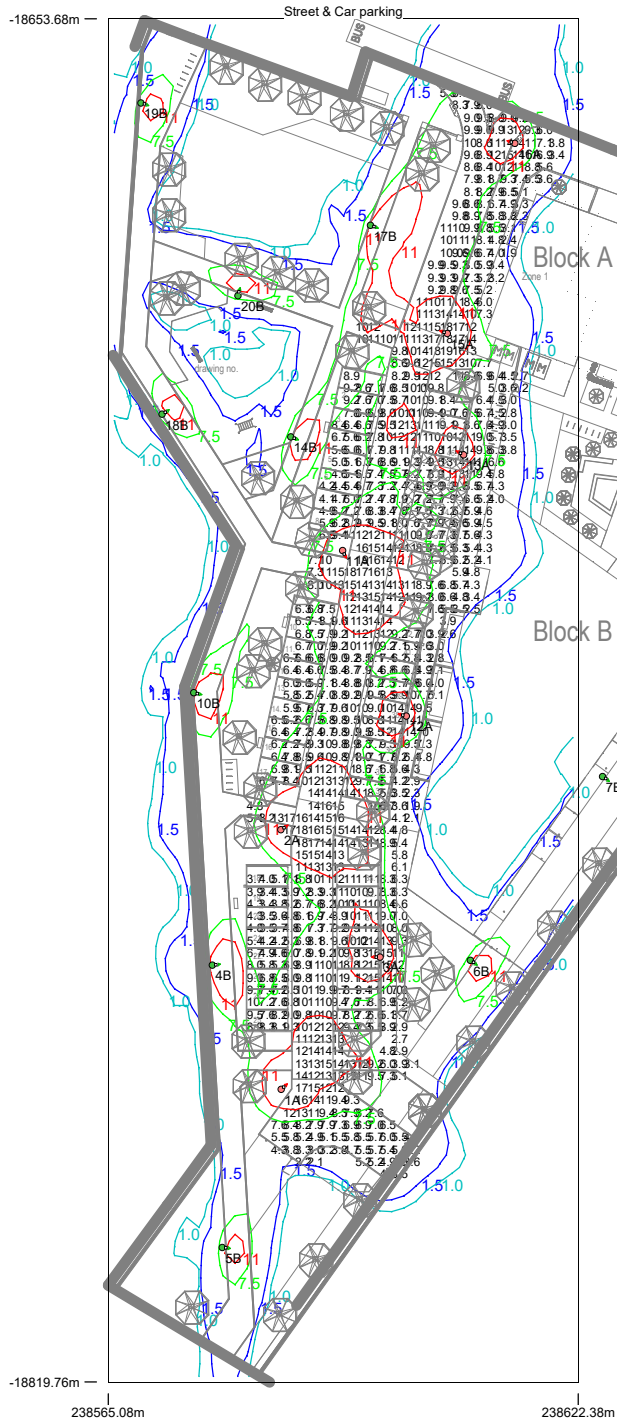
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	238586.12	-18784.08	6.00	40.00	0.00	0.00	0.45			
2	A	238586.10	-18752.44	6.00	32.00	0.00	0.00	0.45			
3	A	238598.17	-18767.97	6.00	180.00	0.00	0.00	0.45			
4	B	238577.74	-18768.95	6.00	6.00	0.00	0.00	0.45			
5	B	238578.96	-18803.33	6.00	352.00	0.00	0.00	0.45			
6	B	238609.19	-18768.35	6.00	324.00	0.00	0.00	0.45			
7	B	238625.30	-18745.97	6.00	324.00	0.00	0.00	0.45			
8	B	238642.59	-18721.66	6.00	324.00	0.00	0.00	0.45			
9	B	238659.73	-18698.38	6.00	324.00	0.00	0.00	0.45			
10	B	238575.50	-18735.75	6.00	345.00	0.00	0.00	0.45			
11	A	238593.63	-18718.47	6.00	298.00	0.00	0.00	0.45			
12	A	238601.38	-18738.59	6.00	166.00	0.00	0.00	0.45			
13	A	238608.37	-18706.79	6.00	153.00	0.00	0.00	0.45			
14	B	238587.30	-18704.61	6.00	339.00	0.00	0.00	0.45			
15	A	238606.39	-18692.02	6.00	159.00	0.00	0.00	0.45			
16	A	238614.60	-18668.84	6.00	162.00	0.00	0.00	0.45			
17	B	238597.04	-18678.83	6.00	339.00	0.00	0.00	0.45			
18	B	238571.65	-18701.83	6.00	31.00	0.00	0.00	0.45			

**Layout Continued**

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
19	B	238569.05	-18663.92	6.00	341.00	0.00	0.00	0.45			
20	B	238580.85	-18687.39	6.00	74.00	0.00	0.00	0.45			

## Horizontal Illuminance (lux)

Street & Car parking

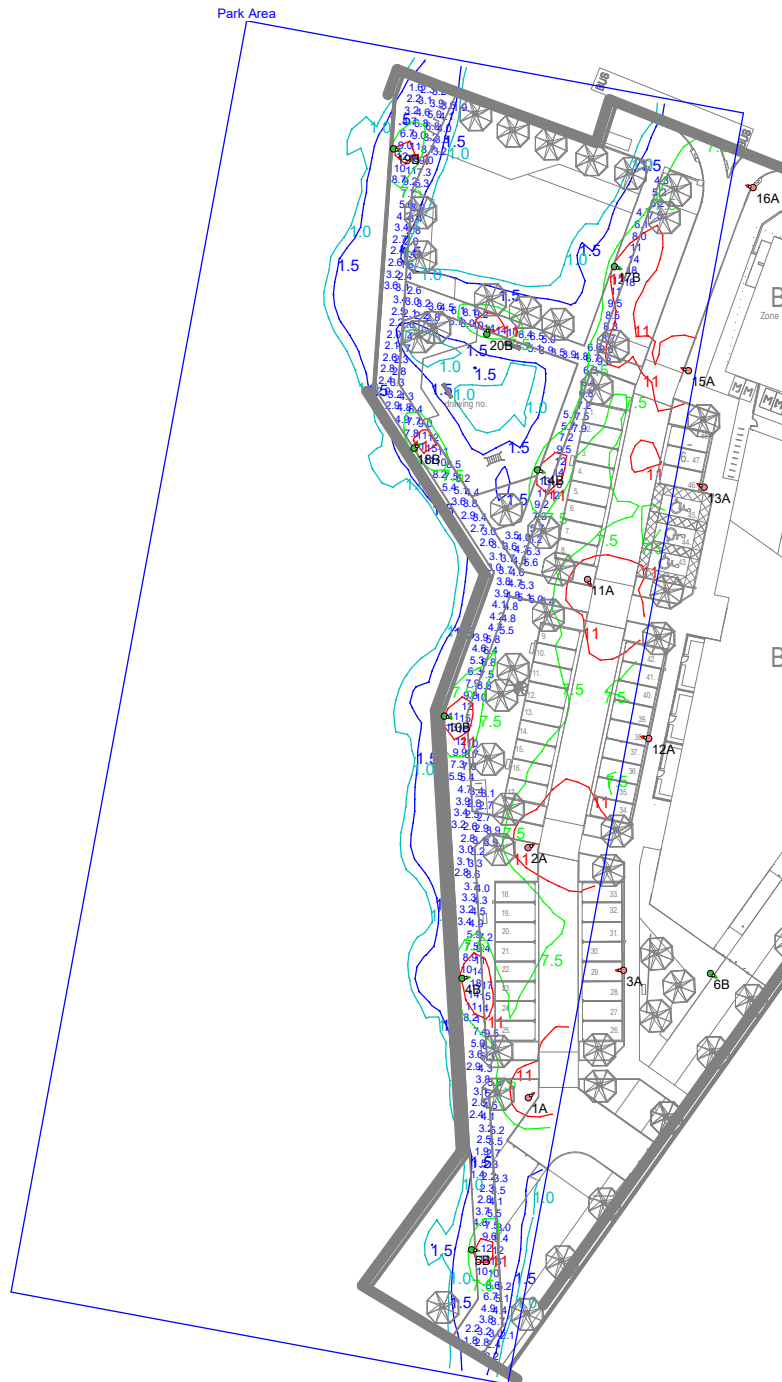


### Results

Eav	8.75
Emin	1.90
Emax	18.92
Emin/Emax	0.10
Emin/Eav	0.22

## Horizontal Illuminance (lux)

Park Area



### Results

Eav	6.06
Emin	1.36
Emax	18.25
Emin/Emax	0.07
Emin/Eav	0.22

## Horizontal Illuminance (lux)



### Results

Eav	5.58
Emin	1.89
Emax	15.18
Emin/Emax	0.12
Emin/Eav	0.34