

DATE: 17 October 2024
DESIGNER: Daniel McDonnell
PROJECT No: SHB5/2972
PROJECT NAME: Development at Ballymun

**LIGHTING
REALITY**

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	Development at Ballymun	390.88	155.50	234.61	280.49	1.49	1.50
2	Lower Block & Main Road	534.25	155.52	91.20	137.38	1.50	1.49
3	Upper Block & Balbutcher L...	391.25	316.57	95.69	119.42	1.50	1.49
4	Central Communal Area	490.60	300.77	38.02	39.45	1.46	1.46

Luminaires

Luminaire A Data



Supplier	Urbis Schreder
Type	AXIA 2.1 5167 Integrated lenses 16 OSLO N SQUARE GIANT@600mA
Lamp(s)	16 OSLO SQUARE GIANT@600mA NW 740 230V 00-36-648
LampFlux(klm)/Colour	4.28 NW 3000K/70
File Name	AXIA 2.1 5167 16 OSLO SQUARE GIANT 600mA NW 740 31W 434362 Integrated le...
Maintenance Factor	0.84
Imax70,80,90(cd/klm)	1162.3, 202.9, 3.0
No. in Project	28

Luminaire B Data



Supplier	Urbis Schreder
Type	FLEXIA TOP 5304 Deep shape PC 20 LH3 51C@300mA NW 740 230V
Lamp(s)	20 LH351C@300mA NW 740 230V
LampFlux(klm)/Colour	2.79 NW 3000K/70
File Name	FLEXIA TOP 5304 20 LH351C 300mA NW 740 19.6W 445412 Deep shape PC 230V ...
Maintenance Factor	0.84
Imax70,80,90(cd/klm)	329.1, 124.0, 39.1
No. in Project	19

Luminaire C Data



Supplier	Urbis Schreder
Type	AXIA 2.1 5167 Integrated lenses 16 OSLO N SQUARE GIANT@300mA
Lamp(s)	16 OSLO SQUARE GIANT@300mA NW 740 230V 00-36-648
LampFlux(klm)/Colour	2.31 NW 3000K/70
File Name	AXIA 2.1 5167 16 OSLO SQUARE GIANT 300mA NW 740 16W 434362 Integrated le...
Maintenance Factor	0.84
Imax70,80,90(cd/klm)	1162.3, 202.9, 3.0
No. in Project	7

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	407.88	341.81	6.00	268.00	0.00	0.00	0.60			
2	A	430.31	340.58	6.00	268.00	0.00	0.00	0.60			
3	A	452.74	339.16	6.00	268.00	0.00	0.00	0.60			
5	A	469.10	346.51	6.00	349.00	0.00	0.00	0.60			
6	A	472.22	369.49	6.00	349.00	0.00	0.00	0.60			
8	A	398.65	349.86	6.00	170.00	0.00	0.00	0.60			
10	A	402.26	374.47	6.00	170.00	0.00	0.00	0.60			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
11	A	404.54	398.92	6.00	181.00	0.00	0.00	0.60			
13	A	405.11	422.04	6.00	180.00	0.00	0.00	0.60			
18	A	475.05	395.35	6.00	354.00	0.00	0.00	0.60			
19	A	600.77	171.40	6.00	270.00	0.00	0.00	0.60			
20	A	585.39	172.93	6.00	270.00	0.00	0.00	0.60			
21	A	557.37	173.68	6.00	270.00	0.00	0.00	0.60			
22	A	572.08	173.68	6.00	270.00	0.00	0.00	0.60			
23	A	511.80	192.05	6.00	248.00	0.00	0.00	0.60			
24	A	524.62	187.26	6.00	249.00	0.00	0.00	0.60			
25	A	492.13	212.09	6.00	336.00	0.00	0.00	0.60			
26	A	497.57	226.03	6.00	344.00	0.00	0.00	0.60			
27	A	546.33	200.55	6.00	180.00	0.00	0.00	0.60			
28	A	546.96	215.22	6.00	180.00	0.00	0.00	0.60			
29	A	547.67	229.56	6.00	180.00	0.00	0.00	0.60			
30	A	542.98	160.60	6.00	145.00	0.00	0.00	0.60			
31	A	548.64	254.25	6.00	180.00	0.00	0.00	0.60			
32	B	516.30	322.68	6.00	200.00	0.00	0.00	0.00			
33	B	515.62	307.92	6.00	180.00	0.00	0.00	0.00			
34	B	502.60	335.60	6.00	180.00	0.00	0.00	0.00			
36	B	438.77	393.84	6.00	180.00	0.00	0.00	0.00			
37	B	438.43	379.65	6.00	180.00	0.00	0.00	0.00			
39	B	433.61	367.77	6.00	180.00	0.00	0.00	0.00			
40	C	456.93	373.17	6.00	84.00	0.00	0.00	0.60			
41	A	473.12	322.52	6.00	175.00	0.00	0.00	0.60			
44	A	496.03	284.26	6.00	251.00	0.00	0.00	0.60			
45	A	516.02	279.31	6.00	250.00	0.00	0.00	0.60			
46	A	535.45	271.58	6.00	250.00	0.00	0.00	0.60			
47	B	522.91	251.67	6.00	180.00	0.00	0.00	0.00			
48	B	529.02	236.42	6.00	180.00	0.00	0.00	0.00			
49	B	508.84	232.48	6.00	180.00	0.00	0.00	0.00			
50	B	582.11	246.98	6.00	180.00	0.00	0.00	0.00			
51	B	586.20	230.55	6.00	180.00	0.00	0.00	0.00			
52	B	578.26	217.90	6.00	180.00	0.00	0.00	0.00			
41	B	605.11	264.63	6.00	270.00	0.00	0.00	0.00			
54	C	563.10	245.00	6.00	269.00	0.00	0.00	0.60			
55	A	545.63	183.69	6.00	180.00	0.00	0.00	0.60			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
56	B	549.65	286.50	6.00	180.00	0.00	0.00	0.00			
57	B	601.54	287.33	6.00	270.00	0.00	0.00	0.00			
58	C	538.67	293.57	6.00	250.00	0.00	0.00	0.60			
47	B	577.83	275.19	6.00	270.00	0.00	0.00	0.00			
48	C	592.24	272.98	6.00	270.00	0.00	0.00	0.50			
61	B	574.52	288.30	6.00	270.00	0.00	0.00	0.00			
62	C	560.61	282.69	6.00	272.00	0.00	0.00	0.60			
51	C	588.94	202.32	6.00	200.00	0.00	0.00	0.50			
52	C	573.55	203.44	6.00	326.00	0.00	0.00	0.50			
68	B	480.29	310.02	6.00	358.00	0.00	0.00	0.00			
69	B	489.96	294.44	6.00	0.00	0.00	0.00	0.00			

Horizontal Illuminance (lux)

Development at Ballymun



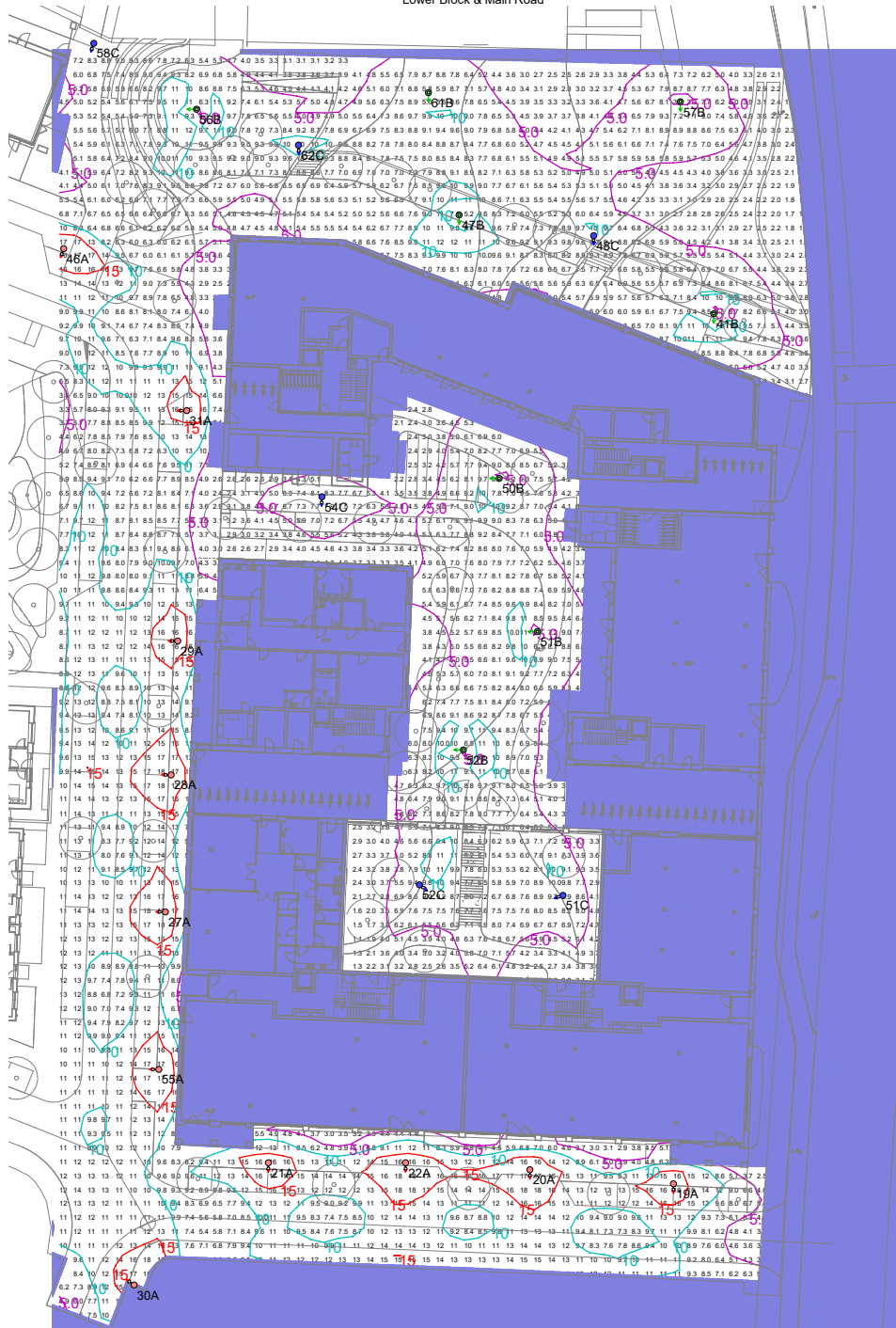
Results

Eav	7.37
Emin	1.06
Emax	18.67
Emin/Emax	0.06
Emin/Eav	0.14

Horizontal Illuminance (lux)

Lower Block & Main Road

Lower Block & Main Road



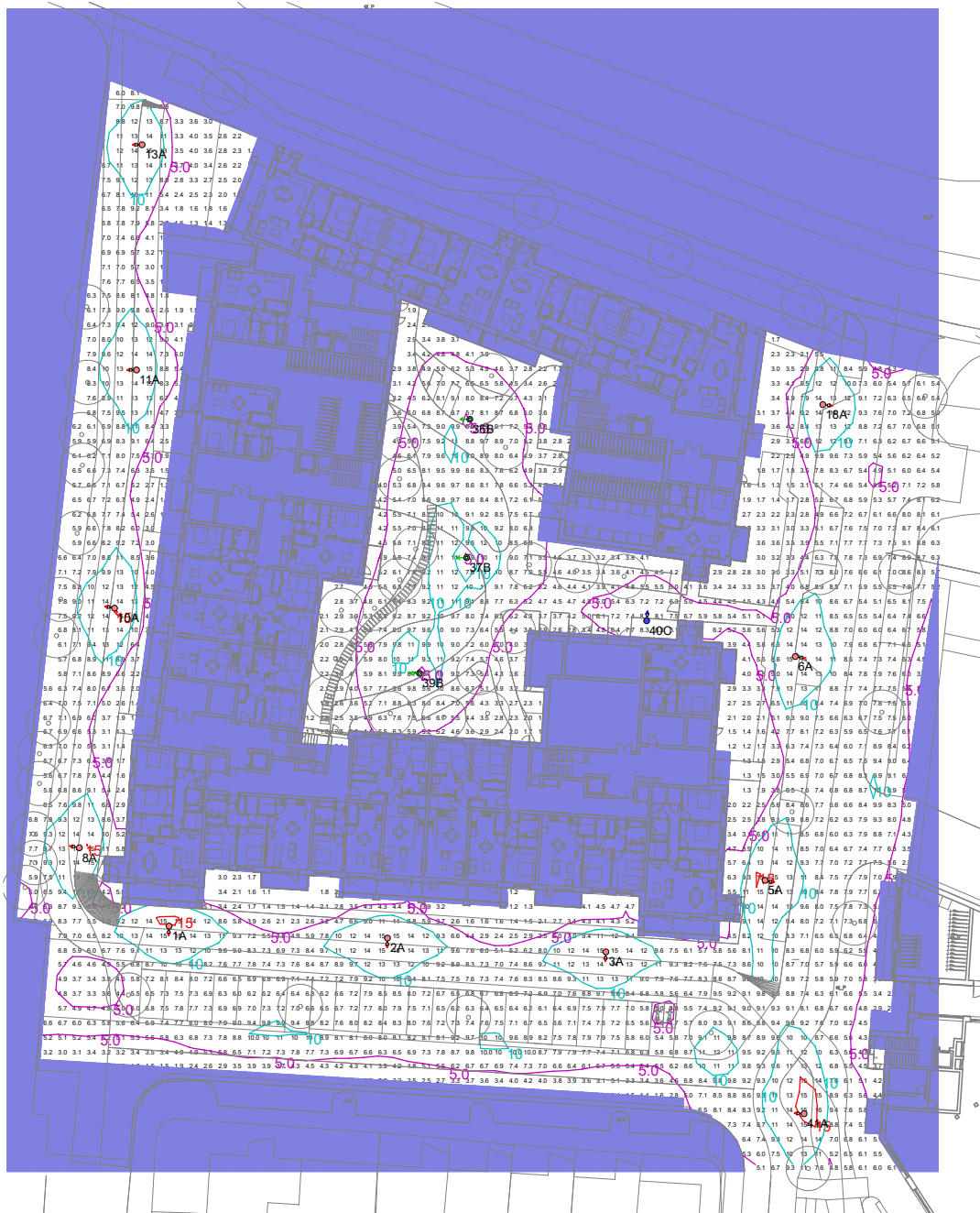
Results

Eav	8.16
Emin	1.12
Emax	18.43
Emin/Emax	0.06
Emin/Eav	0.14

Horizontal Illuminance (lux)

Upper Block & Balbutcher Lane

Upper Block & Balbutcher Lane

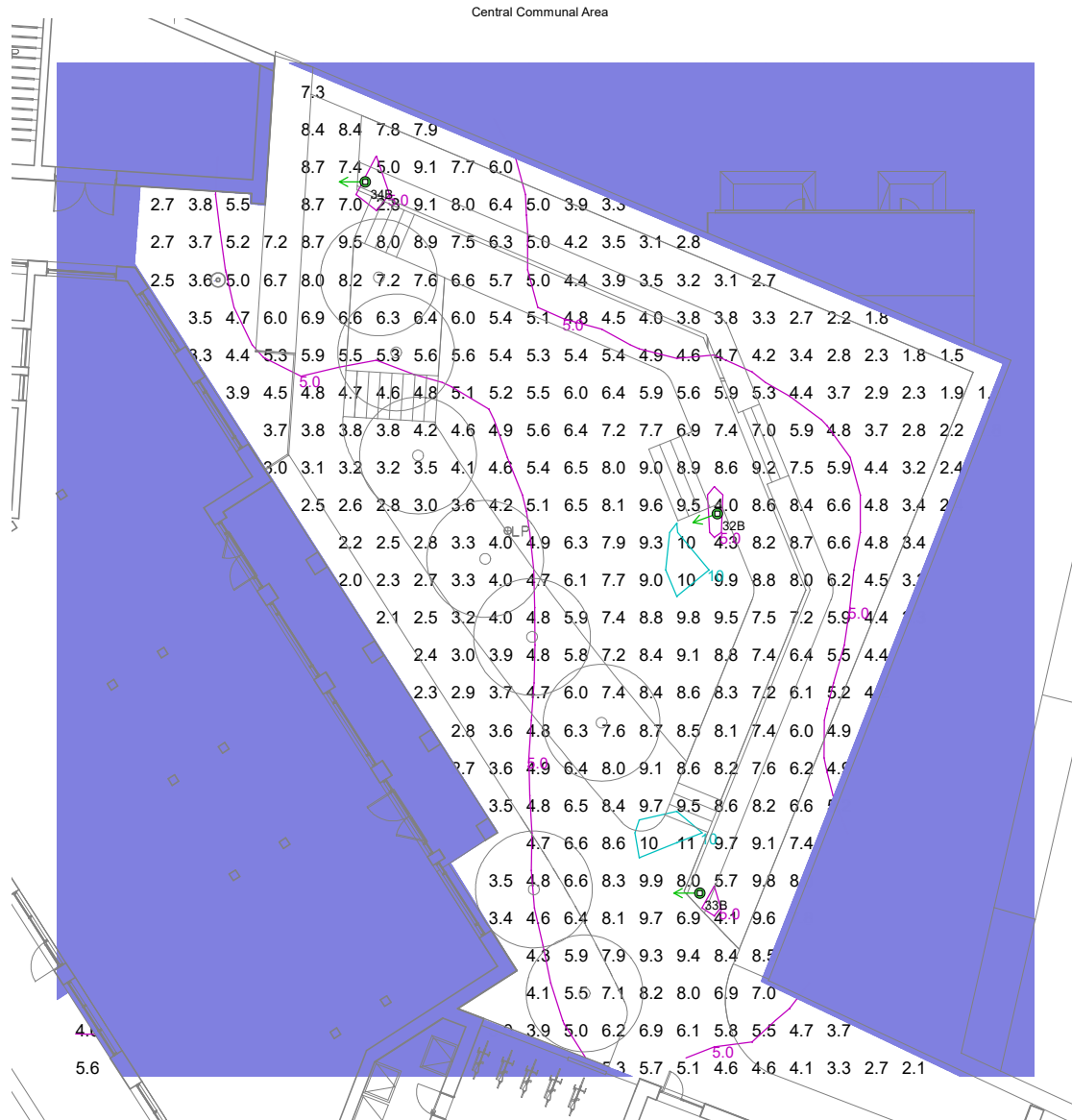


Results

Eav	6.84
Emin	1.00
Emax	16.09
Emin/Emax	0.06
Emin/Eav	0.15

Horizontal Illuminance (lux)

Central Communal Area



Results

Eav	5.66
Emin	1.48
Emax	10.71
Emin/Emax	0.14
Emin/Eav	0.26