

DATE:

21 September 2021

PROJECT NAME: Social Housing Bundle 3

Residential Development at Fortbarrington Road, Athy

Designed to:

P3

Eav - 7.50 to 11.25 lux

Emin - 1.5 lux

6m Columns

PT

0 degree inclination

fLF = Luminous flux factor for 100,000hours - 98%

fS = Survival factor - 0.97% (representing 3% failures)

fLM = Mounting height: 6m or less, Cleaning frequency - 72 months,

Environmental zone – E3/E4

fSM = Surface factor - 1 (Exterior Lighting only)

Overall fM = 0.81 (CLO N/A)

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Layout Report

General Data

Dimensions in Metres Angles in Degrees
 Grid Origin 63.0m x 59.4m
 Area 220.0m x 180.7m
 Sample Spacing 1.50m x 1.49m

Luminaires



Luminaire A Data

Supplier	Urbis Schreder
Type	AXIA 3.1 5267 Integrated lenses 16 OSLO N SQUARE GIANT@870mA
Lamp(s)	16 OSLO N SQUARE GIANT@870mA WW 730 230V
LampFlux(klm)/Colour	5.13 WW 3000K/70
File Name	AXIA 3.1 5267 16 OSLO N SQUARE GIANT 870mA WW 730 44W 429102 Integrated I...
Maintenance Factor	0.81
Imax70,80,90(cd/klm)	985.2, 145.1, 0.0
No. in Project	26



Luminaire B Data

Supplier	Urbis Schreder
Type	AXIA 3.1 5296 Integrated lenses 16 OSLO N SQUARE GIANT@480mA
Lamp(s)	16 OSLO N SQUARE GIANT@480mA WW 730 230V
LampFlux(klm)/Colour	3.17 WW 3000K/70
File Name	AXIA 3.1 5296 16 OSLO N SQUARE GIANT 480mA WW 730 25.1W 436952 Integrated ...
Maintenance Factor	0.81
Imax70,80,90(cd/klm)	1243.8, 38.3, 0.0
No. in Project	4

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	91.95	215.68	6.00	181.00	0.00	0.00	0.45			
2	A	69.98	227.30	6.00	1.00	0.00	0.00	0.45			
3	A	91.83	183.48	6.00	179.00	0.00	0.00	0.45			
4	A	91.92	139.28	6.00	179.00	0.00	0.00	0.45			
5	A	78.71	171.48	6.00	313.00	0.00	0.00	0.45			
6	A	91.95	110.71	6.00	179.00	0.00	0.00	0.45			
7	A	91.85	83.50	6.00	179.00	0.00	0.00	0.45			
8	B	117.13	173.48	6.00	270.00	0.00	0.00	0.45			
9	A	126.33	154.60	6.00	88.00	0.00	0.00	0.45			
10	A	168.41	224.49	6.00	180.00	0.00	0.00	0.45			
11	A	145.15	199.31	6.00	0.00	0.00	0.00	0.45			
12	A	145.05	175.98	6.00	0.00	0.00	0.00	0.45			
13	A	211.88	210.04	6.00	177.00	0.00	0.00	0.45			
14	A	211.99	181.22	6.00	171.00	0.00	0.00	0.45			
16	A	210.48	154.45	6.00	90.00	0.00	0.00	0.45			
17	A	248.28	154.60	6.00	91.00	0.00	0.00	0.45			
18	A	266.37	202.99	6.00	6.00	0.00	0.00	0.45			
19	A	266.50	176.48	6.00	4.00	0.00	0.00	0.45			
20	A	228.33	167.49	6.00	274.00	0.00	0.00	0.45			
21	A	255.98	167.26	6.00	270.00	0.00	0.00	0.45			

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Layout Continued

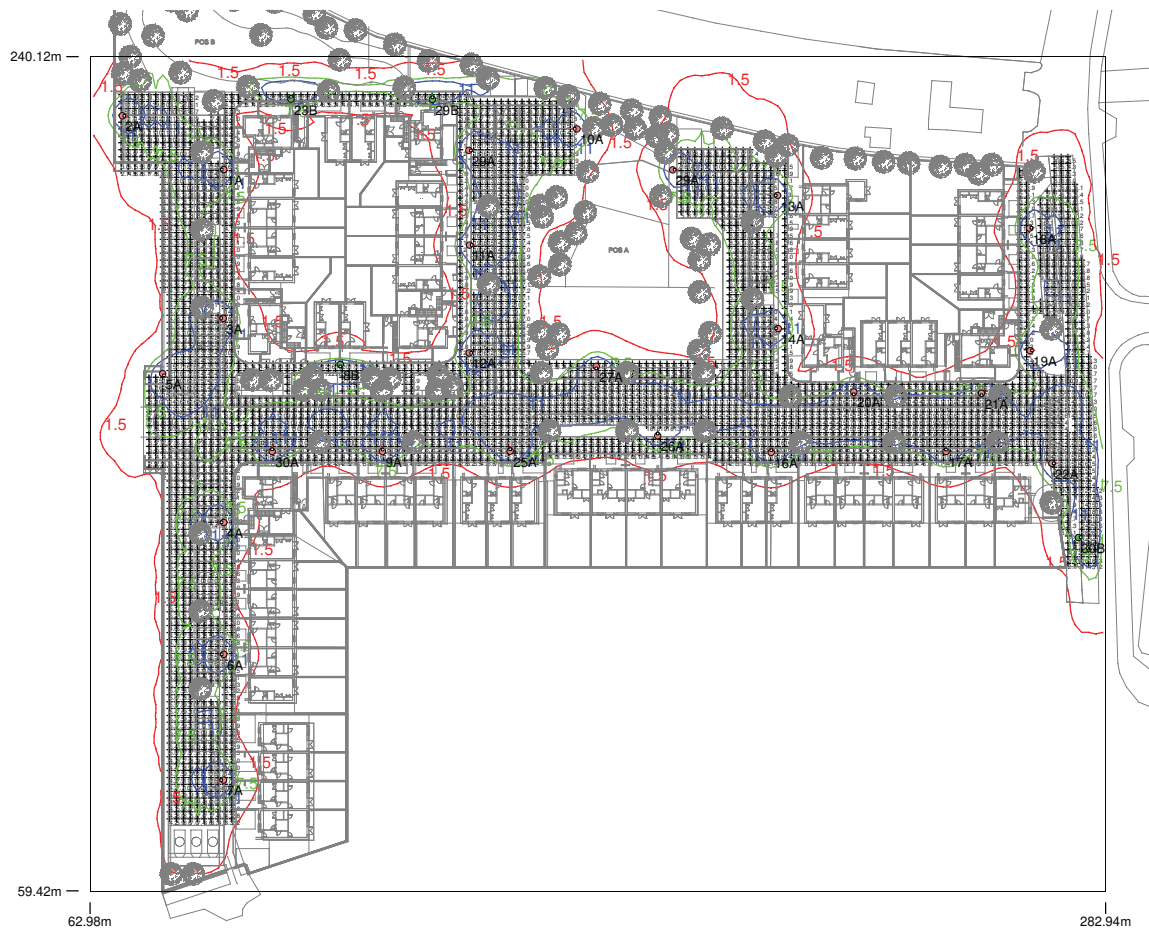
	ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
22		A	271.21	152.07	6.00	2.00	0.00	0.00	0.45			
23		B	106.49	230.94	6.00	90.00	0.00	0.00	0.45			
25		A	153.95	154.69	6.00	88.00	0.00	0.00	0.45			
26		A	185.90	158.06	6.00	91.00	0.00	0.00	0.45			
27		A	172.57	173.06	6.00	275.00	0.00	0.00	0.45			
29		A	189.12	215.62	6.00	358.00	0.00	0.00	0.45			
30		A	102.41	154.64	6.00	92.00	0.00	0.00	0.45			
29		B	137.08	230.87	6.00	91.00	0.00	0.00	0.45			
29		A	144.99	219.82	6.00	0.00	0.00	0.00	0.45			
	30	B	276.99	136.03	6.00	1.00	0.00	0.00	0.45			

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Horizontal Illuminance (lux)

Grid 1



Results

Eav	9.83
Emin	1.92
Emax	34.21
Emin/Emax	0.06
Emin/Eav	0.20