

DATE: 15 March 2022
DESIGNER: Alex Naper
PROJECT No: SES 17121 Rev D
PROJECT NAME: SES 17121 Coolagad - Cairn



Residential area designed in accordance with EN13201-2:2015 Category P4.
Distributor Road - designed in accordance with EN13201-2:2015 Category P3.
Access Junction designed in accordance with EN13201-2:2015 Category C4
Step section designed in accordance with I.S.EN17210-2021 with illuminance levels as per the recommendations of BS8300-1:2018 Table 5 Stairways and ramps (open) in the external environment.
MF derived from: $0.92 \times 0.953 \times 0.99$ (LMF (Low pollution environment & 72 month cleaning cycle) $\times$ LLMF $\times$ LSF) LLMF & LSF values @ 100,000 hours.
Rev A: Updated site layout.
Rev B: Updated site layout
Rev C: Updated site layout
Rev D: Updated as per comments.

Outdoor Lighting Report

PREPARED BY: Sabre Electrical Services Ltd.
Unit 11,
Bellview Industrial Estate,
Tolka Valley Road,
Dublin 11
Phone Number: 01 8110875
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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	728242.00	713246.00	60.00	69.00	1.50	1.50
2	Grid 2	728187.00	713216.00	45.00	63.00	1.50	1.50
3	Grid 3	728159.86	713287.04	75.00	54.00	1.50	1.50
4	Grid 4	727866.08	713248.57	373.31	75.00	1.50	1.50
5	Grid 5	727492.77	713264.09	373.31	45.00	1.50	1.50
6	Grid 6	727644.78	713030.82	249.75	259.00	1.50	1.50
7	Grid 7	727643.73	712923.90	147.00	144.00	1.50	1.50
8	Grid 8	727521.07	712741.15	330.86	217.00	1.50	1.50
9	Grid 9	727621.04	712575.97	284.70	178.00	1.50	1.50
10	Grid 10	727510.26	713044.50	132.00	223.00	1.50	1.50
11	Grid 11	727723.89	712605.50	21.00	9.00	1.50	1.50
12	Grid 12	727755.37	712853.85	13.90	6.87	0.56	0.27

Luminaires

Luminaire A Data



Supplier	Urbis Schreder
Type	AXIA 2.2 5187 Integrated lenses 48 OSLO N SQUARE GIANT@300mA
Lamp(s)	48 OSLO SQUARE GIANT@300mA WW 722 230V
LampFlux(klm)/Colour	6.49 WW 2200K/70
File Name	AXIA 2.2 5187 48 OSLO SQUARE GIANT 300mA WW 722 42.5W 442012 Integrated ...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	656.1, 86.9, 0.0
No. in Project	8

Luminaire B Data



Supplier	Urbis Schreder
Type	AXIA 2.2 5166 Integrated lenses Rear louve rs 48 OSLO SQUARE
Lamp(s)	48 OSLO SQUARE GIANT@300mA WW 722 230V
LampFlux(klm)/Colour	6.49 WW 2200K/70
File Name	AXIA 2.2 5166 48 OSLO SQUARE GIANT 300mA WW 722 42.5W 491132 Integrated ...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	843.7, 115.7, 0.0
No. in Project	19

Luminaire C Data



Supplier	Urbis Schreder
Type	AXIA 2.1 5241 Integrated lenses Rear louve rs 24 OSLO SQUARE
Lamp(s)	24 OSLO SQUARE GIANT@300mA WW 722 230V
LampFlux(klm)/Colour	3.25 WW 2200K/70
File Name	AXIA 2.1 5241 24 OSLO SQUARE GIANT 300mA WW 722 22.4W 434782 Integrated ...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	635.8, 43.3, 1.7
No. in Project	13

Luminaire D Data



Supplier	Urbis Schreder
Type	AXIA 2.1 5166 Integrated lenses Rear louve rs 24 OSLO SQUARE
Lamp(s)	24 OSLO SQUARE GIANT@300mA WW 722 230V
LampFlux(klm)/Colour	3.25 WW 2200K/70
File Name	AXIA 2.1 5166 24 OSLO SQUARE GIANT 300mA WW 722 22.4W 434302 Integrated ...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	854.2, 129.6, 2.0
No. in Project	67

Luminaires

Luminaire E Data



Supplier	Urbis Schreder
Type	AXIA 2.1 5165 Integrated lenses Front-Rear louvers 4 OSLO SQ
Lamp(s)	4 OSLO SQUARE GIANT@350mA WW 7 22 230V
LampFlux(klm)/Colour	0.62 WW 2200K/70
File Name	AXIA 2.1 5165 4 OSLO SQUARE GIANT 3 50mA WW 722 5.7W 434272 Integrated le...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	846.0, 82.7, 1.7
No. in Project	20

Luminaire F Data



Supplier	Urbis Schreder
Type	AXIA 2.1 5166 Integrated lenses 24 OSLO SQUARE GIANT@200mA
Lamp(s)	24 OSLO SQUARE GIANT@200mA WW 722 230V
LampFlux(klm)/Colour	2.23 WW 2200K/70
File Name	AXIA 2.1 5166 24 OSLO SQUARE GIANT 200mA WW 722 15.3W 464222 Integrated ...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	991.6, 137.8, 1.1
No. in Project	11

Luminaire G Data



Supplier	Urbis Schreder
Type	AXIA 2.1 5165 Integrated lenses Rear louvers 24 OSLO SQUARE
Lamp(s)	24 OSLO SQUARE GIANT@300mA WW 722 230V
LampFlux(klm)/Colour	3.25 WW 2200K/70
File Name	AXIA 2.1 5165 24 OSLO SQUARE GIANT 300mA WW 722 22.4W 434262 Integrated ...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	1250.5, 121.8, 2.3
No. in Project	22

Luminaire H Data



Supplier	Urbis Schreder
Type	AXIA 2.1 5165 Integrated lenses 4 OSLO SQUARE GIANT@300mA W
Lamp(s)	4 OSLO SQUARE GIANT@300mA WW 7 22 230V
LampFlux(klm)/Colour	0.54 WW 2200K/70
File Name	AXIA 2.1 5165 4 OSLO SQUARE GIANT 3 00mA WW 722 5W 464212 Integrated len...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	1436.6, 149.2, 1.1
No. in Project	4

Luminaire I Data



Supplier	Urbis Schreder
Type	AXIA 2.1 5165 Integrated lenses Front-Rear louvers 24 OSLO S
Lamp(s)	24 OSLO SQUARE GIANT@540mA WW 722 230V
LampFlux(klm)/Colour	5.49 WW 2200K/70
File Name	AXIA 2.1 5165 24 OSLO SQUARE GIANT 540mA WW 722 40.5W 434272 Integrated ...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	846.0, 82.7, 1.7
No. in Project	3

Luminaire J Data

Supplier	
Type	FLEXIA FG MIDI 5300 [Flat glass], [Lum. shape-related, Plast
Lamp(s)	10 XP-G3@300mA FW 722 230V 01-37-03 7
LampFlux(klm)/Colour	1.24 FW 2200K/70
File Name	FLEXIA FG MIDI 5300 10 XP-G3 300mA F W 722 10.5W 447932 [Flat glass], [Lum. s...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	991.9, 57.3, 0.0
No. in Project	11

Luminaire K Data

Supplier	
Type	FLEXIA FG MIDI 5304 [Flat glass], [Lum. shape-related, Plast
Lamp(s)	20 XP-G3@200mA FW 722 230V 01-37-04 3
LampFlux(klm)/Colour	1.70 FW 2200K/70
File Name	FLEXIA FG MIDI 5304 20 XP-G3 200mA F W 722 13.3W 44797S [Flat glass], [Lum. s...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	207.8, 54.5, 0.0
No. in Project	3

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
1	A	728238.88	713299.12	8.00	10.00	0.00	0.00	0.50	100%			
2	A	728265.03	713254.59	8.00	182.00	5.00	0.00	1.00	100%			
3	A	728252.78	713343.28	8.00	184.00	0.00	0.00	0.50	100%			
4	A	728257.83	713283.20	8.00	189.00	0.00	0.00	0.50	100%			
5	A	728241.48	713260.43	8.00	8.00	0.00	0.00	0.50	100%			
6	A	728227.16	713274.77	8.00	98.00	0.00	0.00	0.50	100%			
7	A	728253.60	713320.83	8.00	187.00	0.00	0.00	0.50	100%			
8	A	728205.26	713292.41	8.00	252.00	0.00	0.00	0.50	100%			
9	B	728177.70	713305.63	8.00	250.00	0.00	0.00	0.40	100%			
10	B	728153.23	713301.69	6.00	75.00	0.00	0.00	0.40	100%			
11	B	728119.52	713300.73	8.00	99.00	0.00	0.00	0.40	100%			
12	B	728083.88	713294.38	8.00	98.00	0.00	0.00	0.40	100%			
13	C	728196.28	713240.71	6.00	0.00	0.00	0.00	0.40	85%			
14	C	728215.79	713241.87	6.00	193.00	0.00	0.00	0.40	85%			
15	C	728194.68	713270.56	6.00	0.00	0.00	0.00	0.40	85%			
16	C	728214.34	713262.78	6.00	186.00	0.00	0.00	0.40	85%			
17	C	728171.25	713320.23	6.00	286.00	0.00	0.00	0.40	100%			
18	C	728202.67	713325.40	6.00	275.00	0.00	0.00	0.40	100%			
19	E	727745.69	712853.38	5.00	114.00	0.00	0.00	0.40	100%			
20	D	727849.13	713268.59	6.00	175.00	0.00	0.00	0.40	100%			
21	D	727851.82	713230.66	6.00	196.00	0.00	0.00	0.40	100%			
22	F	727838.26	713201.29	6.00	118.00	0.00	0.00	0.40	100%			
23	E	727859.27	713204.55	5.00	205.00	0.00	0.00	0.40	100%			
24	E	727866.73	713178.91	5.00	193.00	0.00	0.00	0.40	100%			
25	E	727872.76	713155.89	5.00	195.00	0.00	0.00	0.40	100%			
26	F	727806.54	713196.99	6.00	115.00	0.00	0.00	0.40	100%			
27	F	727836.90	713214.65	6.00	297.00	0.00	0.00	0.40	100%			
28	F	727802.28	713180.87	6.00	123.00	0.00	0.00	0.40	100%			
29	G	727767.98	713189.61	6.00	291.00	0.00	0.00	0.40	100%			
30	G	727736.52	713182.03	6.00	278.00	0.00	0.00	0.40	100%			
31	D	727790.21	713171.14	6.00	183.00	0.00	0.00	0.40	100%			
32	D	727793.39	713144.86	6.00	184.00	0.00	0.00	0.40	100%			
33	D	727797.97	713118.85	6.00	190.00	0.00	0.00	0.40	100%			
34	D	727820.38	713112.42	6.00	115.00	0.00	0.00	0.40	100%			
35	D	727856.05	713132.68	6.00	123.00	0.00	0.00	0.40	100%			
36	D	727794.28	713092.37	6.00	147.00	0.00	0.00	0.40	100%			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
37	D	727769.91	713074.60	6.00	139.00	0.00	0.00	0.40	100%			
38	D	727738.47	713066.28	6.00	63.00	0.00	0.00	0.40	100%			
39	D	727762.11	713046.66	6.00	188.00	0.00	0.00	0.40	100%			
40	G	727718.18	713074.57	6.00	284.00	0.00	0.00	0.40	100%			
41	G	727692.48	713068.85	6.00	293.00	0.00	0.00	0.40	100%			
42	G	727661.12	713081.61	6.00	222.00	0.00	0.00	0.40	100%			
43	D	727682.79	713052.87	6.00	203.00	0.00	0.00	0.40	100%			
44	D	727685.64	713019.06	6.00	182.00	0.00	0.00	0.40	100%			
45	G	727650.76	713101.53	6.00	192.00	0.00	0.00	0.40	100%			
46	G	727647.59	713129.99	6.00	181.00	0.00	0.00	0.40	100%			
47	G	727645.27	713159.89	6.00	185.00	0.00	0.00	0.40	100%			
48	C	727640.83	713188.19	6.00	201.00	0.00	0.00	0.40	100%			
49	C	727633.68	713216.47	6.00	184.00	0.00	0.00	0.40	100%			
50	C	727634.55	713248.38	6.00	182.00	0.00	0.00	0.40	100%			
51	C	727635.61	713279.96	6.00	179.00	0.00	0.00	0.40	100%			
52	G	727661.65	713170.83	6.00	272.00	0.00	0.00	0.40	100%			
53	G	727702.54	713177.12	6.00	279.00	0.00	0.00	0.40	100%			
54	D	727719.51	713092.41	6.00	10.00	0.00	0.00	0.40	100%			
55	D	727716.04	713120.90	6.00	7.00	0.00	0.00	0.40	100%			
56	D	727711.19	713148.83	6.00	15.00	0.00	0.00	0.40	100%			
57	D	727712.94	713197.45	6.00	198.00	0.00	0.00	0.40	100%			
58	D	727708.18	713221.66	6.00	192.00	0.00	0.00	0.40	100%			
59	C	727703.74	713270.77	6.00	270.00	0.00	0.00	0.40	100%			
60	D	727705.82	713247.03	6.00	183.00	0.00	0.00	0.40	100%			
61	D	727782.59	713215.92	6.00	193.00	0.00	0.00	0.40	100%			
62	D	727777.48	713248.11	6.00	190.00	0.00	0.00	0.40	100%			
63	F	727766.86	713257.95	6.00	307.00	0.00	0.00	0.40	100%			
64	D	727680.82	712982.84	6.00	169.00	0.00	0.00	0.40	100%			
65	D	727665.01	712944.72	6.00	357.00	0.00	0.00	0.40	100%			
66	D	727765.69	713013.98	6.00	179.00	0.00	0.00	0.40	100%			
67	D	727766.17	712986.06	6.00	178.00	0.00	0.00	0.40	100%			
68	D	727752.27	712945.09	6.00	354.00	0.00	0.00	0.40	100%			
69	D	727775.44	712926.42	6.00	215.00	0.00	0.00	0.40	100%			
70	D	727730.68	712943.29	6.00	260.00	0.00	0.00	0.40	100%			
71	E	727783.18	712868.48	5.00	292.00	0.00	0.00	0.40	100%			
72	D	727789.53	712895.78	6.00	200.00	0.00	0.00	0.40	100%			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
73	F	727681.34	712915.70	6.00	199.00	0.00	0.00	0.40	100%			
74	F	727692.46	712890.39	6.00	214.00	0.00	0.00	0.40	100%			
75	F	727715.56	712865.86	6.00	232.00	0.00	0.00	0.40	100%			
76	F	727730.42	712845.93	6.00	198.00	0.00	0.00	0.40	100%			
77	D	727691.06	712862.06	6.00	305.00	0.00	0.00	0.40	100%			
78	D	727661.70	712850.60	6.00	284.00	0.00	0.00	0.40	100%			
79	D	727683.29	712826.89	6.00	8.00	0.00	0.00	0.40	100%			
80	D	727687.63	712796.09	6.00	3.00	0.00	0.00	0.40	100%			
81	D	727688.44	712765.22	6.00	0.00	0.00	0.00	0.40	100%			
82	F	727741.34	712776.92	6.00	196.00	0.00	0.00	0.40	100%			
83	D	727696.12	712747.99	6.00	9.00	0.00	0.00	0.40	100%			
85	D	727806.06	712856.09	6.00	195.00	0.00	0.00	0.40	100%			
86	D	727818.42	712823.69	6.00	204.00	0.00	0.00	0.40	100%			
87	D	727831.00	712797.84	6.00	198.00	0.00	0.00	0.40	100%			
88	D	727626.72	712850.36	6.00	190.00	0.00	0.00	0.40	100%			
89	D	727612.06	712816.57	6.00	354.00	0.00	0.00	0.40	100%			
90	D	727633.26	712844.44	6.00	284.00	0.00	0.00	0.40	100%			
91	D	727617.00	712882.31	6.00	214.00	0.00	0.00	0.40	100%			
92	D	727608.14	712911.50	6.00	190.00	0.00	0.00	0.40	100%			
93	D	727602.98	712935.03	6.00	192.00	0.00	0.00	0.40	100%			
94	D	727589.68	712951.46	6.00	282.00	0.00	0.00	0.40	100%			
95	G	727607.98	712803.27	6.00	274.00	0.00	0.00	0.40	100%			
96	G	727580.63	712815.81	6.00	230.00	0.00	0.00	0.40	100%			
97	G	727557.23	712843.48	6.00	216.00	0.00	0.00	0.40	100%			
98	G	727544.74	712869.23	6.00	204.00	0.00	0.00	0.40	100%			
99	G	727534.24	712904.29	6.00	191.00	0.00	0.00	0.40	100%			
100	G	727624.20	712785.85	6.00	176.00	0.00	0.00	0.40	100%			
101	G	727624.13	712757.03	6.00	195.00	0.00	0.00	0.40	100%			
102	F	727734.43	712808.10	6.00	180.00	0.00	0.00	0.40	100%			
103	D	727737.64	712759.07	6.00	309.00	0.00	0.00	0.40	100%			
104	J	727561.49	713225.13	5.00	24.00	0.00	0.00	0.90	100%			
105	D	727716.86	712753.36	6.00	267.00	0.00	0.00	0.40	100%			
106	D	727699.80	712732.81	6.00	156.00	0.00	0.00	0.40	100%			
107	D	727690.18	712703.46	6.00	141.00	0.00	0.00	0.40	100%			
108	G	727660.44	712709.43	6.00	243.00	0.00	0.00	0.40	100%			
109	G	727633.49	712726.88	6.00	224.00	0.00	0.00	0.40	100%			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
110	G	727682.00	712685.84	6.00	189.00	0.00	0.00	0.40	100%			
111	G	727687.35	712655.08	6.00	196.00	0.00	0.00	0.40	100%			
112	G	727697.13	712628.95	6.00	202.00	0.00	0.00	0.40	100%			
113	C	727696.64	712610.92	6.00	81.00	0.00	0.00	0.40	100%			
114	E	727716.32	712606.43	5.00	109.00	0.00	0.00	0.40	100%			
115	E	727753.80	712619.87	5.00	105.00	0.00	0.00	0.40	100%			
116	I	727734.77	712611.19	5.00	104.00	0.00	0.00	0.40	100%			
117	D	727762.04	712751.94	6.00	239.00	0.00	0.00	0.40	100%			
118	D	727788.76	712744.47	6.00	265.00	0.00	0.00	0.40	100%			
119	D	727815.91	712745.78	6.00	276.00	0.00	0.00	0.40	100%			
120	D	727834.79	712739.83	6.00	223.00	0.00	0.00	0.40	100%			
121	D	727838.15	712761.34	6.00	172.00	0.00	0.00	0.40	100%			
122	D	727833.07	712709.43	6.00	5.00	0.00	0.00	0.40	100%			
123	D	727840.32	712683.39	6.00	11.00	0.00	0.00	0.40	100%			
124	D	727859.19	712667.29	6.00	180.10	0.00	0.00	0.40	100%			
125	H	727825.87	712712.86	5.00	268.00	0.00	0.00	0.40	100%			
126	H	727807.93	712704.40	5.00	133.00	0.00	0.00	0.40	100%			
127	H	727795.30	712690.70	5.00	115.00	0.00	0.00	0.40	100%			
128	H	727770.10	712688.18	5.00	277.00	0.00	0.00	0.40	100%			
129	D	727767.05	712729.76	6.00	165.00	0.00	0.00	0.40	100%			
130	D	727752.56	712696.55	6.00	355.00	0.00	0.00	0.40	100%			
131	D	727767.36	712674.81	6.00	191.00	0.00	0.00	0.40	100%			
132	D	727759.12	712656.86	6.00	16.00	0.00	0.00	0.40	100%			
133	D	727777.48	712650.74	6.00	204.00	0.00	0.00	0.40	100%			
134	D	727776.03	712629.16	6.00	102.00	0.00	0.00	0.40	100%			
135	E	727839.19	712657.73	5.00	290.00	0.00	0.00	0.40	100%			
136	D	727853.14	712705.65	6.00	186.00	0.00	0.00	0.40	100%			
137	E	727797.94	712631.32	5.00	102.00	0.00	0.00	0.40	100%			
138	E	727820.46	712638.08	5.00	117.00	0.00	0.00	0.40	100%			
139	E	727841.69	712641.03	5.00	89.00	0.00	0.00	0.40	100%			
140	J	727564.44	713205.53	5.00	349.00	0.00	0.00	0.90	100%			
141	D	727578.17	713264.36	6.00	188.00	0.00	0.00	0.40	100%			
142	D	727563.80	713262.21	6.00	4.00	0.00	0.00	0.40	100%			
143	B	727600.61	713287.33	8.00	93.00	0.00	0.00	0.40	100%			
144	B	728049.16	713288.06	8.00	102.00	0.00	0.00	0.40	100%			
145	B	728014.44	713279.33	8.00	103.00	0.00	0.00	0.40	100%			

Layout Continued

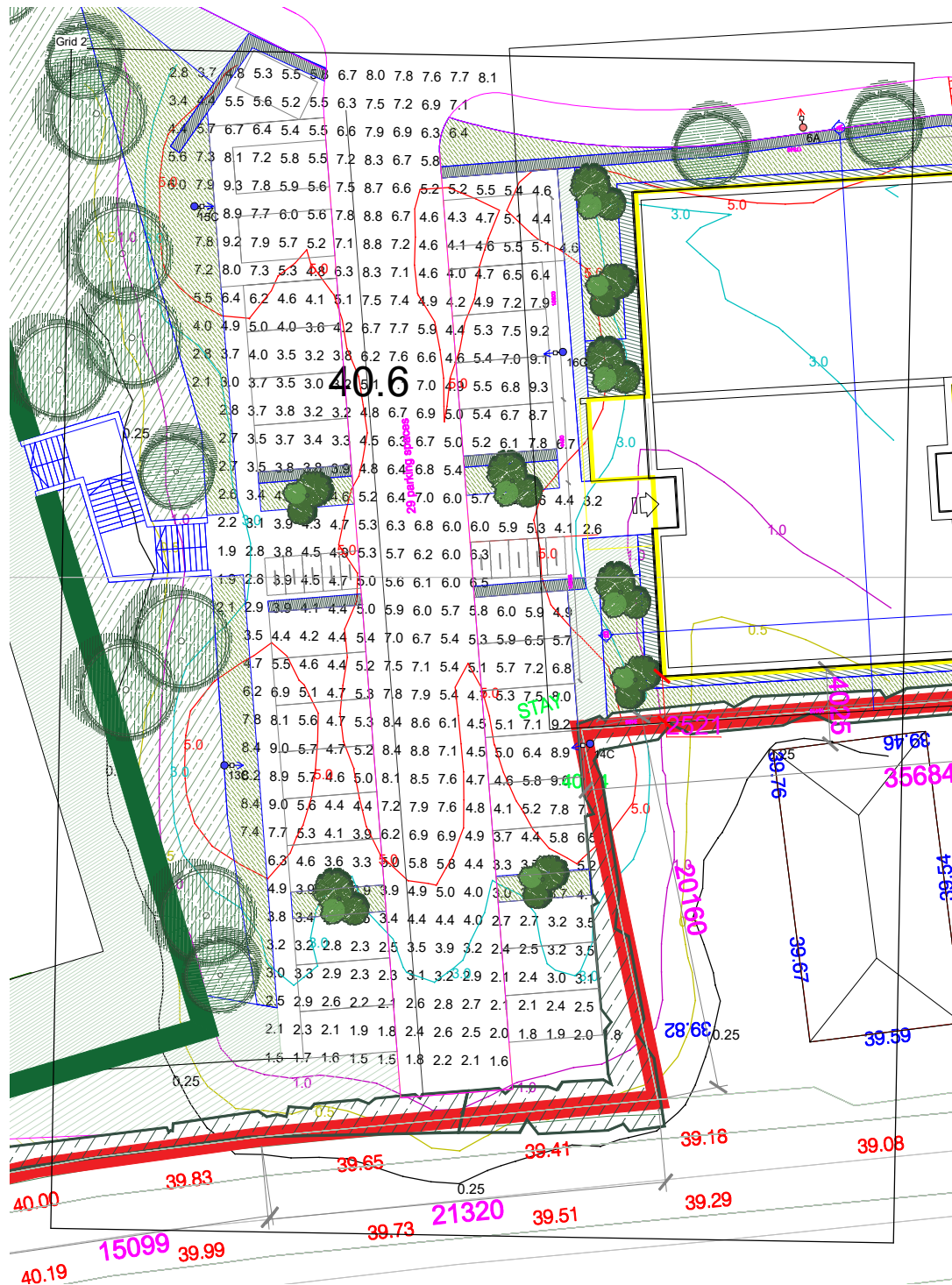
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
146	B	727969.64	713276.09	8.00	85.00	0.00	0.00	0.40	100%			
147	B	727927.64	713284.43	8.00	80.00	0.00	0.00	0.40	100%			
148	B	727895.45	713285.09	8.00	90.00	0.00	0.00	0.40	100%			
149	B	727853.35	713281.86	8.00	97.00	0.00	0.00	0.40	100%			
150	B	727813.05	713272.97	8.00	107.00	0.00	0.00	0.40	100%			
151	B	727772.28	713267.17	8.00	94.00	0.00	0.00	0.40	100%			
152	B	727731.49	713268.79	8.00	85.00	0.00	0.00	0.40	100%			
153	B	727688.59	713274.69	8.00	78.00	0.00	0.00	0.40	100%			
154	B	727650.76	713283.94	8.00	74.00	0.00	0.00	0.40	100%			
155	B	727633.90	713299.59	8.00	262.00	0.00	0.00	1.40	100%			
156	B	727573.37	713280.81	8.00	114.00	0.00	0.00	0.40	100%			
157	B	727546.79	713272.55	8.00	110.00	0.00	0.00	0.40	100%			
158	C	728198.66	713307.77	6.00	5.00	0.00	0.00	0.40	100%			
159	I	727768.43	712857.62	5.00	105.00	0.00	0.00	0.40	100%			
160	I	727759.74	712860.81	5.00	291.00	0.00	0.00	0.40	100%			
161	J	727550.05	713192.06	5.00	101.00	0.00	0.00	0.90	100%			
162	J	727588.06	713191.55	5.00	152.00	0.00	0.00	0.90	100%			
163	J	727571.14	713185.61	5.00	51.00	0.00	0.00	0.90	100%			
164	J	727582.63	713210.27	5.00	199.00	0.00	0.00	0.90	100%			
165	J	727576.36	713228.50	5.00	323.00	0.00	0.00	0.90	100%			
166	D	727550.93	713254.02	6.00	101.00	0.00	0.00	0.40	100%			
167	J	727580.65	713148.01	5.00	3.00	0.00	0.00	0.90	100%			
168	J	727559.29	713128.07	5.00	98.00	0.00	0.00	0.90	100%			
169	J	727580.41	713131.71	5.00	101.00	0.00	0.00	0.90	100%			
170	J	727587.51	713115.33	5.00	10.00	0.00	0.00	0.90	100%			
171	K	727584.39	713102.30	5.00	135.00	0.00	0.00	0.90	100%			
172	K	727594.12	713102.98	5.00	76.00	0.00	0.00	0.90	100%			
173	K	727576.79	713167.40	5.00	15.00	0.00	0.00	0.90	100%			
174	E	727531.17	713240.34	5.00	186.00	0.00	0.00	0.40	100%			
175	E	727533.12	713215.07	5.00	186.00	0.00	0.00	0.40	100%			
176	E	727535.10	713188.45	5.00	186.00	0.00	0.00	0.40	100%			
177	E	727533.22	713257.74	5.00	185.00	0.00	0.00	0.40	100%			
178	E	727539.37	713163.03	5.00	192.00	0.00	0.00	0.40	100%			
179	E	727545.15	713138.70	5.00	194.00	0.00	0.00	0.40	100%			
180	E	727547.09	713118.48	5.00	193.00	0.00	0.00	0.40	100%			
181	E	727548.80	713095.52	5.00	182.00	0.00	0.00	0.40	100%			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out- reach	Dimmed to	Target X	Target Y	Target Z
181	E	727637.97	712830.05	5.00	104.00	0.00	0.00	0.40	100%			

Horizontal Illuminance (lux)

Grid 2

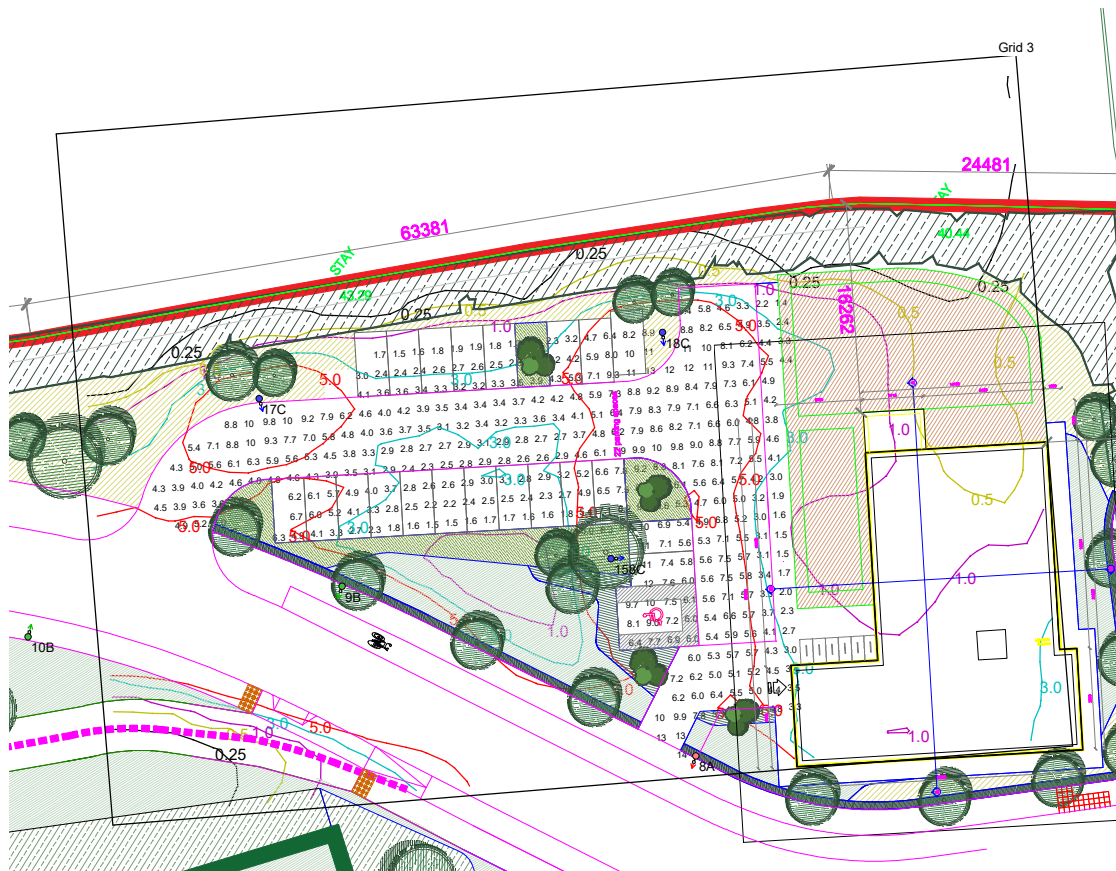


Results

Eav	5.15
Emin	1.53
Emax	9.31
Emin/Emax	0.16
Emin/Eav	0.30

Horizontal Illuminance (lux)

Grid 3



Results

Eav	5.27
Emin	1.38
Emax	13.84
Emin/Emax	0.10
Emin/Eav	0.26

Horizontal Illuminance (lux)

Grid 4

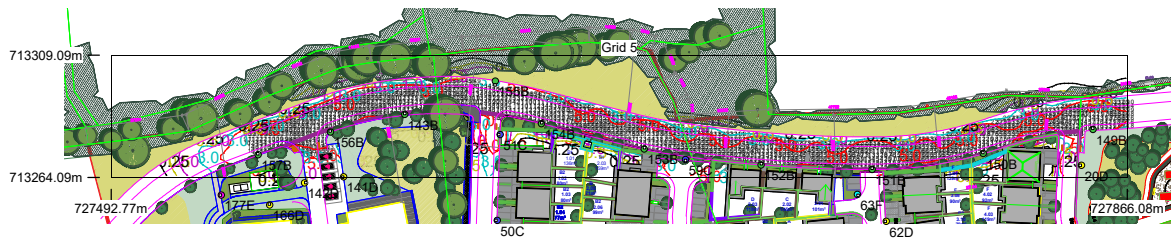


Results

Eav	7.94
Emin	1.56
Emax	32.19
Emin/Emax	0.05
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 5



Results

Eav	8.12
Emin	1.62
E _{max}	22.60
E _{min} /E _{max}	0.07
E _{min} /E _{av}	0.20

Horizontal Illuminance (lux)

Grid 6



Results

Eav	6.12
Emin	1.21
Emax	19.98
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 7



Results

Eav	5.40
Emin	1.06
Emax	15.84
Emin/Emax	0.07
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 8



Results

Eav	5.89
Emin	1.15
Emax	46.12
Emin/Emax	0.02
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 9



Results

Eav	6.53
Emin	1.28
Emax	20.49
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 10

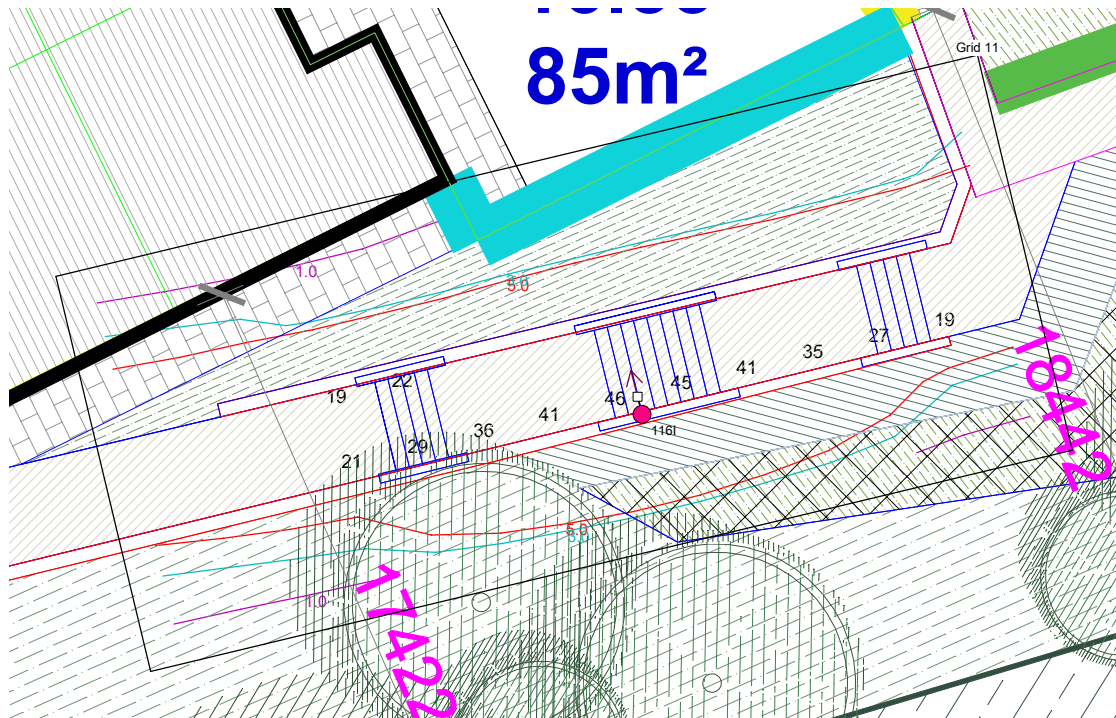


Results

Eav	5.78
Emin	1.15
Emax	17.59
Emin/Emax	0.07
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 11

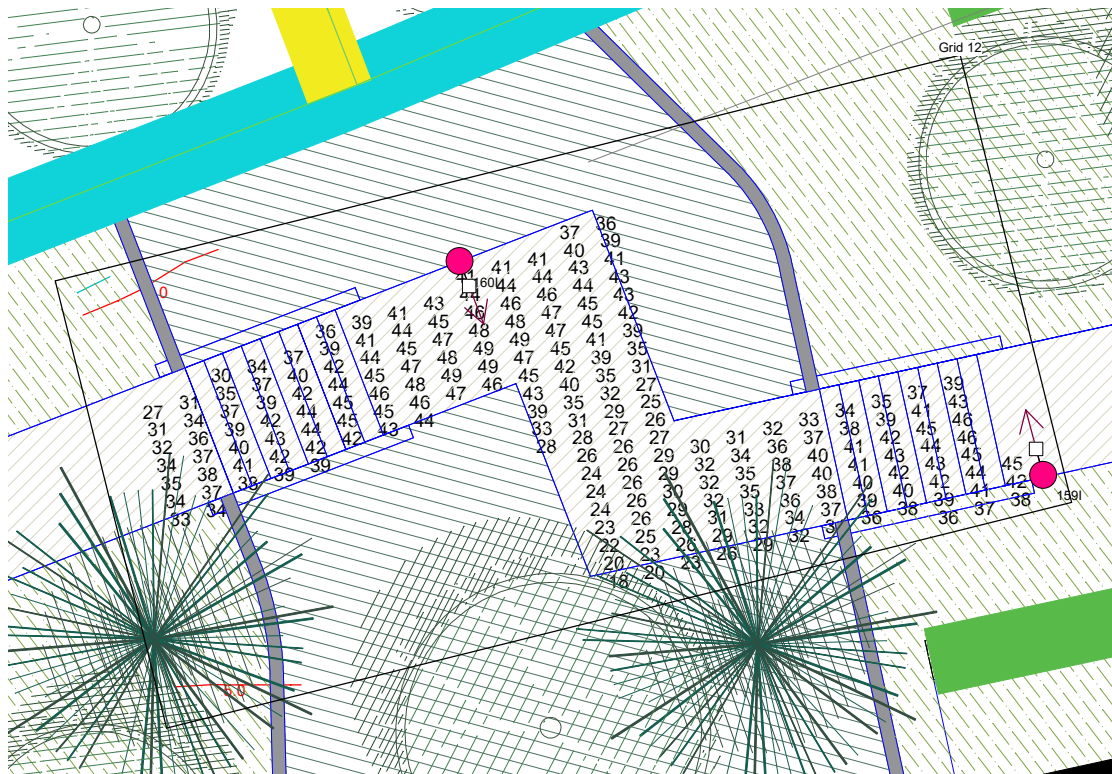


Results

Eav	31.62
Emin	18.62
Emax	45.75
Emin/Emax	0.41
Emin/Eav	0.59

Horizontal Illuminance (lux)

Grid 12



Results

Eav	37.44
Emin	18.10
Emax	49.01
Emin/Emax	0.37
Emin/Eav	0.48