

RECEIVED: 16/10/2025



APPENDIX 6-4

OUTDOOR LIGHTING REPORT

DATE: 5 October 2025
DESIGNER: N.Grealish
PROJECT No: R3
PROJECT NAME: Knocknacarra LRD



Outdoor Lighting Report

The lighting design has achieved the following Lighting Standards:
IS

EN 13201- 2:2015 / BS5489-1:2020
P4 - 5 Lux Ave & 0.2 Uo

Up to 6m = fm(Overall MF)=(flf 98% x fs .987% x flm 0.84 (E3/E4) x fsm
1 = 0.83

Above 6m = fm(Overall MF)=(flf 98% x fs .987% x flm 0.92 (E3/E4) x
fsm 1 = 0.91

“Electric Skyline confirms that this Design complies with relevant Lighting Standards. However as the Design was prepared on a Desktop basis, Electric Skyline assumes no

PREPARED BY: Electric Skyline Ltd
CRF House,
Dalton St,
Claremorris,
Co. Mayo,
F12 N2Y2
e-mail: info@electricskyline.ie
website: www.electricskyline.ie

Layout Report

RECEIVED: 23/10/2025

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	526634.13	724723.13	339.55	235.34	1.50	1.50
2	Grid 2	526594.32	724432.04	233.06	291.56	1.49	1.50

Luminaires

Luminaire A Data



Supplier	Urbis Schreder
Type	AXIA 3 EVO 1 5266 16 OSLO SQUARE GIANT@500mA WW 730 230V 02-53
Lamp(s)	16 OSLO SQUARE GIANT@500mA WW 730 230V 02-53-573 [CJOIO4STDA]
Lamp Flux (klm)	3.28
File Name	AXIA 3 EVO 1 5266 16 OSLO SQUARE GIANT 500mA WW 730 25W 7x4 III-Medium...
Maintenance Factor	0.87
Imax70,80,90(cd/klm)	1081.8, 207.1, 0.0
No. in Project	5

Luminaire B Data



Supplier	Urbis Schreder
Type	AXIA 3 EVO 1 5267 16 OSLO SQUARE GIANT@500mA WW 730 230V 02-53
Lamp(s)	16 OSLO SQUARE GIANT@500mA WW 730 230V 02-53-573 [CJOIO4STDA]
Lamp Flux (klm)	3.21
File Name	AXIA 3 EVO 1 5267 16 OSLO SQUARE GIANT 500mA WW 730 25W 7x5 III-Medium...
Maintenance Factor	0.87
Imax70,80,90(cd/klm)	950.2, 150.2, 0.0
No. in Project	66

Luminaire C Data



Supplier	Urbis Schreder
Type	AXIA 3 EVO 1 5267 16 OSLO SQUARE GIANT@700mA WW 730 230V 02-53
Lamp(s)	16 OSLO SQUARE GIANT@700mA WW 730 230V 02-53-573 [CJOIO4STDA]
Lamp Flux (klm)	4.25
File Name	AXIA 3 EVO 1 5267 16 OSLO SQUARE GIANT 700mA WW 730 35.9W 7x5 III-Medi...
Maintenance Factor	0.87
Imax70,80,90(cd/klm)	950.2, 150.2, 0.0
No. in Project	9

Luminaire D Data



Supplier	Urbis Schreder
Type	AXIA 3 EVO 1 5296 16 OSLO SQUARE GIANT@350mA WW 730 230V 00-53
Lamp(s)	16 OSLO SQUARE GIANT@350mA WW 730 230V 00-53-397 [CJOIO4STDA]
Lamp Flux (klm)	2.36
File Name	AXIA 3 EVO 1 5296 16 OSLO SQUARE GIANT 350mA WW 730 18.2W 7x4 II-Mediu...
Maintenance Factor	0.87
Imax70,80,90(cd/klm)	1173.7, 48.4, 0.0
No. in Project	20

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	C	526622.78	724527.38	6.00	192.00	0.00	0.00	0.35			
2	C	526622.02	724542.69	6.00	336.00	0.00	0.00	0.35			
3	B	526855.05	724837.07	6.00	344.00	0.00	0.00	0.35			
4	B	526862.49	724855.91	6.00	340.00	0.00	0.00	0.35			
5	C	526841.73	724837.53	6.00	246.00	0.00	0.00	0.35			
6	C	526824.63	724847.53	6.00	213.00	0.00	0.00	0.35			
7	B	526738.10	724818.74	6.00	328.00	0.00	0.00	0.35			
8	D	526700.54	724786.72	6.00	157.00	0.00	0.00	0.35			
9	D	526709.01	724805.39	6.00	162.00	0.00	0.00	0.35			

Layout Continued

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ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
10	B	526690.08	724764.58	6.00	160.00	0.00	0.00	0.35			
11	C	526657.44	724769.43	6.00	261.00	5.00	0.00	0.35			
12	C	526678.67	724776.49	6.00	328.00	5.00	0.00	0.35			
13	B	526661.52	724725.66	6.00	172.00	0.00	0.00	0.35			
14	B	526822.62	724856.82	6.00	134.00	0.00	0.00	0.35			
15	B	526846.66	724878.42	6.00	135.00	0.00	0.00	0.35			
16	B	526945.79	724874.70	6.00	75.00	0.00	0.00	0.35			
17	B	526908.31	724886.69	6.00	65.00	0.00	0.00	0.35			
18	B	526880.45	724895.20	6.00	71.00	0.00	0.00	0.35			
19	B	526691.76	724754.93	6.00	250.00	0.00	0.00	0.35			
20	B	526720.20	724744.48	6.00	248.00	0.00	0.00	0.35			
21	B	526745.38	724742.38	6.00	305.00	5.00	0.00	0.35			
22	B	526754.10	724763.24	6.00	338.00	5.00	0.00	0.35			
23	B	526766.36	724800.96	6.00	252.00	0.00	0.00	0.35			
24	B	526778.42	724817.25	6.00	334.00	0.00	0.00	0.35			
25	B	526792.08	724844.75	6.00	333.00	0.00	0.00	0.35			
26	B	526813.01	724868.23	6.00	315.00	0.00	0.00	0.35			
27	B	526835.97	724888.75	6.00	309.00	0.00	0.00	0.35			
28	B	526858.72	724909.69	6.00	308.00	0.00	0.00	0.35			
29	B	526885.05	724910.38	6.00	252.00	5.00	0.00	0.35			
30	B	526912.77	724901.34	6.00	253.00	5.00	0.00	0.35			
31	B	526949.04	724891.13	6.00	253.00	5.00	0.00	0.35			
32	B	526941.41	724897.92	6.00	161.00	5.00	0.00	0.35			
33	B	526930.17	724914.14	6.00	343.00	5.00	0.00	0.35			
34	D	526878.49	724930.41	6.00	342.00	0.00	0.00	0.35			
35	D	526890.35	724871.55	6.00	162.00	0.00	0.00	0.35			
36	B	526876.21	724834.40	6.00	161.00	0.00	0.00	0.35			
37	D	526839.77	724827.98	6.00	72.00	0.00	0.00	0.35			
38	D	526814.13	724839.86	6.00	48.00	0.00	0.00	0.35			
39	A	526785.72	724862.69	6.00	66.00	0.00	0.00	0.35			
40	B	526751.82	724876.85	6.00	57.00	0.00	0.00	0.35			
41	D	526738.94	724873.31	6.00	160.00	0.00	0.00	0.35			
42	D	526726.54	724846.12	6.00	162.00	0.00	0.00	0.35			
43	B	526760.27	724781.19	6.00	155.00	5.00	0.00	0.70			
44	B	526737.00	724772.87	6.00	69.00	5.00	0.00	0.35			
45	B	526730.15	724796.37	6.00	341.00	5.00	0.00	0.35			

Layout Continued

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ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
46	B	526761.98	724808.43	6.00	160.00	5.00	0.00	0.35			
47	B	526646.54	724742.24	6.00	351.00	0.00	0.00	0.35			
48	B	526663.36	724748.97	6.00	179.00	0.00	0.00	0.35			
49	B	526643.56	724722.23	6.00	353.00	5.00	0.00	0.35			
50	B	526658.23	724706.82	6.00	166.00	5.00	0.00	0.35			
51	B	526662.75	724685.58	6.00	267.00	0.00	0.00	0.35			
52	B	526689.43	724688.74	6.00	288.00	0.00	0.00	0.35			
53	B	526713.04	724692.69	6.00	277.00	0.00	0.00	0.35			
54	B	526735.00	724706.15	6.00	280.00	0.00	0.00	0.35			
55	B	526759.76	724709.45	6.00	274.00	0.00	0.00	0.35			
56	B	526783.80	724689.54	6.00	205.00	0.00	0.00	0.35			
57	B	526794.11	724666.09	6.00	199.00	5.00	0.00	0.35			
58	B	526789.95	724638.28	6.00	7.00	0.00	0.00	0.35			
59	B	526765.80	724666.00	6.00	98.00	0.00	0.00	0.35			
60	B	526740.31	724662.56	6.00	96.00	0.00	0.00	0.35			
61	A	526733.44	724680.33	6.00	182.00	0.00	0.00	0.35			
62	B	526741.54	724644.47	6.00	182.00	5.00	0.00	0.35			
63	A	526725.12	724618.94	6.00	111.00	0.00	0.00	0.35			
64	B	526700.60	724604.84	6.00	6.00	0.00	0.00	0.35			
65	B	526705.56	724574.13	6.00	5.00	0.00	0.00	0.35			
66	B	526698.51	724554.63	6.00	110.00	0.00	0.00	0.35			
67	B	526677.13	724548.74	6.00	102.00	0.00	0.00	0.35			
68	B	526641.41	724542.85	6.00	77.00	0.00	0.00	0.35			
69	B	526636.82	724568.38	6.00	169.00	0.00	0.00	0.35			
70	B	526642.41	724601.78	6.00	174.00	0.00	0.00	0.35			
71	B	526645.84	724631.32	6.00	172.00	0.00	0.00	0.35			
72	B	526650.42	724657.87	6.00	174.00	0.00	0.00	0.35			
73	B	526864.69	724895.45	6.00	135.00	0.00	0.00	0.35			
89	C	526635.18	724507.46	6.00	227.00	0.00	0.00	0.35			
90	C	526653.78	724484.07	6.00	223.00	0.00	0.00	0.35			
91	C	526674.24	724460.36	6.00	225.00	0.00	0.00	0.35			
106	A	526723.42	724819.40	6.00	240.00	0.00	0.00	0.35			
107	B	526682.29	724737.55	6.00	354.00	5.00	0.00	0.35			
108	B	526686.81	724612.06	6.00	97.00	0.00	0.00	0.35			
109	B	526655.85	724608.63	6.00	92.00	0.00	0.00	0.35			
110	A	526684.40	724634.89	6.00	5.00	0.00	0.00	0.35			

Layout Continued

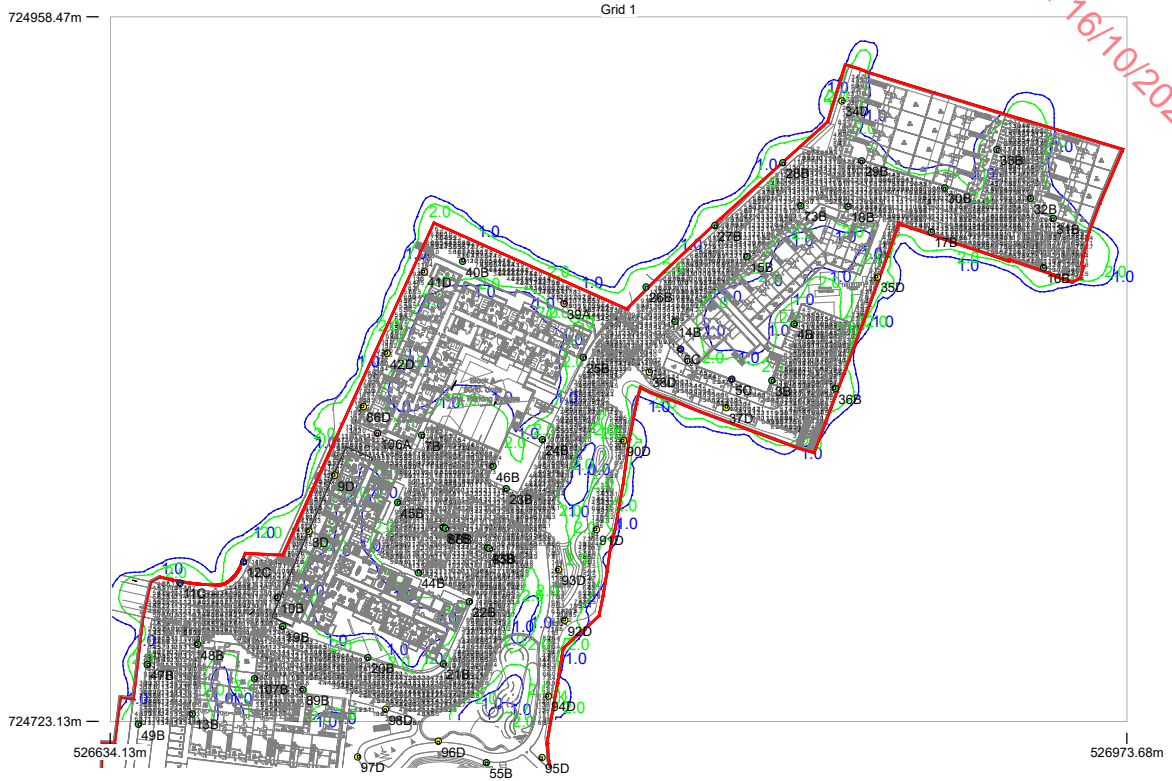
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ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
111	B	526693.27	724658.33	6.00	270.00	0.00	0.00	0.35			
112	B	526695.91	724642.34	6.00	101.00	0.00	0.00	0.35			
113	B	526663.82	724562.10	6.00	201.00	0.00	0.00	0.35			
85	B	526760.69	724780.91	6.00	338.00	0.00	0.00	0.70			
86	D	526718.72	724828.26	6.00	154.00	0.00	0.00	0.35			
87	B	526745.37	724787.99	6.00	159.00	0.00	0.00	0.70			
88	B	526745.99	724787.71	6.00	339.00	0.00	0.00	0.70			
89	B	526698.47	724733.82	6.00	175.00	0.00	0.00	0.35			
90	D	526805.59	724817.01	6.00	182.00	0.00	0.00	0.35			
91	D	526796.45	724787.25	6.00	167.00	0.00	0.00	0.35			
92	D	526785.93	724756.99	6.00	142.00	0.00	0.00	0.35			
93	D	526783.87	724773.88	6.00	180.00	0.00	0.00	0.35			
94	D	526780.43	724731.69	6.00	171.00	0.00	0.00	0.35			
95	D	526778.28	724711.18	6.00	215.00	0.00	0.00	0.35			
96	D	526743.64	724716.56	6.00	275.00	0.00	0.00	0.35			
97	D	526716.72	724711.38	6.00	0.00	0.00	0.00	0.35			
98	D	526726.06	724727.33	6.00	250.00	0.00	0.00	0.35			
99	D	526669.50	724692.00	6.00	86.00	0.00	0.00	0.35			
100	D	526683.21	724702.09	6.00	0.00	0.00	0.00	0.35			

Horizontal Illuminance (lux)

Grid 1

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Results

Eav	9.06
Emin	1.91
Emax	33.80
Emin/Emax	0.06
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 2

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Results

Eav	7.16
Emin	1.65
E _{max}	27.81
E _{min} /E _{max}	0.06
E _{min} /E _{av}	0.23