

DATE: 23 July 2026
DESIGNER: Alex Naper
PROJECT No: SES 07726 Rev B
PROJECT NAME: Confey, Leixlip - Waterman Moylan



MF derived from: 0.92 x 0.91 or 0.95 x 0.99 (LMF (Low pollution environment & 72 month cleaning cycle) x LLMF x LSF) LLMF & LSF values @ 100,000 hours & 25 degrees C Ta.

Residential area designed in accordance with EN13201-2:2015 Category P4.

Rev A: Updated Site Layout.

Rev B: Updated site layout and as per comments

Outdoor Lighting Report

PREPARED BY: Sabre Electrical Services Ltd.
Unit 11,
Bellview Industrial Estate,
Tolka Valley Road,
Dublin 11
D11 VN59
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	1277.27	-1.77	171.00	174.00	1.50	1.50
2	Grid 2	1448.55	-27.39	213.00	174.00	1.50	1.50
3	Grid 3	1282.14	-2.46	69.00	159.00	1.50	1.50
4	Grid 4	1347.58	6.34	280.00	40.50	1.50	1.50
5	Grid 5	1011.48	-4.17	273.61	68.80	1.50	1.50

Luminaires

Luminaire A Data



Supplier	C U Phosco
Type	E950-28-F2A-727-C600-15W
Lamp(s)	727N
Lamp Flux (klm)	2.23
File Name	E950-28-F2A-727-C0600-15W.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	623.6, 113.9, 0.3
No. in Project	2

Luminaire B Data



Supplier	C U Phosco
Type	E950-28-L33-727-C0600-15W
Lamp(s)	
Lamp Flux (klm)	2.20
File Name	E950-28-L33-727-C0600-15W.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	753.4, 174.0, 25.7
No. in Project	22

Luminaire C Data



Supplier	C U Phosco
Type	E950-28-R3A-727-C400-10W
Lamp(s)	727N
Lamp Flux (klm)	1.55
File Name	E950-28-R3A-727-C0400-10W.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	716.7, 30.5, 0.3
No. in Project	12

Luminaire D Data



Supplier	C U Phosco
Type	E950-28-R3A-727-B2-C0250-7W
Lamp(s)	727N
Lamp Flux (klm)	0.84
File Name	E950-28-R3A-727-B2-C0250-7W.ies
Maintenance Factor	0.87
Imax70,80,90(cd/klm)	748.7, 23.8, 0.3
No. in Project	31

Luminaire E Data



Supplier	C U Phosco
Type	E950-28-F2A-727-B2-C0250-7W
Lamp(s)	727N
Lamp Flux (klm)	0.80
File Name	E950-28-F2A-727-B2-C0250-7W.ies
Maintenance Factor	0.87
Imax70,80,90(cd/klm)	708.0, 79.8, 0.4
No. in Project	3

Luminaire F Data



Supplier	C U Phosco
Type	E950-28-P4A-727-B2-C0250-7W
Lamp(s)	727N
Lamp Flux (klm)	0.83
File Name	E950-28-P4A-727-B2-C0250-7W.ies
Maintenance Factor	0.87
Imax70,80,90(cd/klm)	709.7, 142.6, 0.4
No. in Project	3

Luminaires



Luminaire G Data

Supplier	Urbis Schreder
Type	AXIA 2.1 5165 Integrated lenses Front-Rear louvers 8 OSLON S
Lamp(s)	8 OSLON SQUARE GIANT@350mA WW 7 27 230V 00-36-648
LampFlux(klm)/Colour	0.71 WW 2700K/70
File Name	AXIA 2.1 5165 8 OSLON SQUARE GIANT 3 50mA WW 727 10.3W 434272 Integrated I...
Maintenance Factor	0.88
Imax70,80,90(cd/klm)	1551.2, 151.5, 3.2
No. in Project	12

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	B	1368.84	139.20	6.00	172.00	0.00	0.00	0.40			
2	B	1355.40	130.29	6.00	356.00	0.00	0.00	0.40			
3	B	1363.72	109.58	6.00	170.00	0.00	0.00	0.40			
4	E	1345.55	86.80	6.00	76.00	0.00	0.00	0.40			
5	B	1364.00	109.78	6.00	85.00	0.00	0.00	0.40			
6	B	1404.07	117.77	6.00	266.00	0.00	0.00	0.40			
7	B	1432.29	112.39	6.00	267.00	0.00	0.00	0.40			
8	B	1467.03	109.15	6.00	264.00	0.00	0.00	0.40			
9	C	1360.77	82.00	6.00	174.00	0.00	0.00	0.40			
10	C	1358.12	55.44	6.00	174.00	0.00	0.00	0.40			
11	C	1364.76	41.96	6.00	267.00	0.00	0.00	0.40			
12	B	1398.92	31.72	6.00	89.00	0.00	0.00	0.40			
13	C	1426.25	35.85	6.00	261.00	0.00	0.00	0.40			
14	C	1406.12	57.12	6.00	353.00	0.00	0.00	0.40			
15	E	1486.18	117.13	6.00	176.00	0.00	0.00	0.40			
16	C	1409.32	90.36	6.00	354.00	0.00	0.00	0.40			
17	B	1459.73	26.32	6.00	84.00	0.00	0.00	0.40			
18	B	1467.35	109.37	6.00	355.00	0.00	0.00	0.40			
19	B	1494.43	100.88	6.00	236.00	0.00	0.00	0.40			
20	B	1514.16	90.68	6.00	239.00	0.00	0.00	0.40			
21	B	1537.31	86.85	6.00	147.00	0.00	0.00	0.40			
22	B	1513.62	63.54	6.00	354.00	0.00	0.00	0.40			
23	B	1511.42	40.76	6.00	354.00	0.00	0.00	0.40			
24	B	1518.93	20.92	6.00	79.00	0.00	0.00	0.40			
25	B	1556.85	24.39	6.00	269.00	0.00	0.00	0.40			
26	B	1496.46	22.18	6.00	86.00	0.00	0.00	0.40			
27	C	1573.30	21.91	6.00	260.00	0.00	0.00	0.40			
28	C	1605.82	18.31	6.00	262.00	0.00	0.00	0.40			
29	C	1622.40	22.57	6.00	334.00	0.00	0.00	0.40			
30	B	1644.30	34.48	6.00	242.00	0.00	0.00	0.40			
31	C	1632.27	41.49	6.00	333.00	0.00	0.00	0.40			
32	B	1566.06	37.53	6.00	331.00	0.00	0.00	0.40			
33	B	1576.18	57.34	6.00	329.00	0.00	0.00	0.40			
34	B	1592.64	70.25	6.00	159.00	0.00	0.00	0.40			
35	A	1404.23	117.76	6.00	349.00	0.00	0.00	0.40			
36	C	1462.91	85.50	6.00	352.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
37	C	1459.22	51.91	6.00	353.00	0.00	0.00	0.40			
38	D	1296.55	140.87	5.00	13.00	0.00	0.00	0.40			
39	D	1302.52	114.16	5.00	13.00	0.00	0.00	0.40			
40	D	1308.19	88.85	5.00	13.00	0.00	0.00	0.40			
41	D	1314.76	65.26	5.00	30.00	0.00	0.00	0.40			
42	D	1330.60	51.02	5.00	51.00	0.00	0.00	0.40			
43	E	1327.47	42.58	5.00	331.00	0.00	0.00	0.40			
44	D	1334.02	26.50	5.00	350.00	0.00	0.00	0.40			
45	F	1350.02	23.37	5.00	85.00	0.00	0.00	0.40			
46	D	1344.42	46.72	5.00	77.00	0.00	0.00	0.40			
47	D	1330.33	79.31	5.00	137.00	0.00	0.00	0.40			
48	D	1324.27	98.89	5.00	261.00	0.00	0.00	0.40			
49	F	1377.33	20.67	5.00	83.00	0.00	0.00	0.40			
50	F	1406.49	17.94	5.00	83.00	0.00	0.00	0.40			
51	D	1422.16	25.96	5.00	267.00	0.00	0.00	0.40			
52	D	1452.93	22.67	5.00	258.00	0.00	0.00	0.40			
53	D	1480.35	10.56	5.00	85.00	0.00	0.00	0.40			
54	D	1609.78	-2.42	5.00	84.00	0.00	0.00	0.40			
55	D	1511.26	7.58	5.00	85.00	0.00	0.00	0.40			
56	D	1538.77	4.78	5.00	82.00	0.00	0.00	0.40			
57	D	1568.85	11.37	5.00	263.00	0.00	0.00	0.40			
58	D	1597.31	8.88	5.00	267.00	0.00	0.00	0.40			
59	D	1618.01	6.94	5.00	239.00	0.00	0.00	0.40			
60	G	1331.73	12.12	5.00	264.00	0.00	0.00	0.40			
61	G	1305.28	14.61	5.00	265.00	0.00	0.00	0.40			
62	G	1277.33	16.75	5.00	268.00	0.00	0.00	0.40			
63	G	1249.45	19.63	5.00	266.00	0.00	0.00	0.40			
64	G	1221.61	22.44	5.00	265.00	0.00	0.00	0.40			
65	G	1193.71	24.81	5.00	265.00	0.00	0.00	0.40			
66	G	1165.83	27.73	5.00	265.00	0.00	0.00	0.40			
67	G	1138.11	30.50	5.00	265.00	0.00	0.00	0.40			
68	G	1110.37	33.25	5.00	267.00	0.00	0.00	0.40			
69	G	1082.56	36.55	5.00	265.00	0.00	0.00	0.40			
70	G	1054.39	39.27	5.00	265.00	0.00	0.00	0.40			
71	G	1027.59	45.28	5.00	260.00	0.00	0.00	0.40			
72	D	1635.68	49.14	5.00	67.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
73	D	1610.34	60.22	5.00	67.00	0.00	0.00	0.40			
74	D	1579.42	74.31	5.00	67.00	0.00	0.00	0.40			
75	D	1557.22	85.73	5.00	67.00	0.00	0.00	0.40			
76	D	1531.93	100.47	5.00	67.00	0.00	0.00	0.40			
77	D	1510.69	111.42	5.00	69.00	0.00	0.00	0.40			
78	D	1489.85	119.18	5.00	77.00	0.00	0.00	0.40			
79	D	1452.01	126.37	5.00	83.00	0.00	0.00	0.40			
80	D	1424.43	130.39	5.00	80.00	0.00	0.00	0.40			
81	D	1398.94	133.42	5.00	87.00	0.00	0.00	0.40			
82	D	1369.03	139.20	6.00	265.00	0.00	0.00	0.40			
83	D	1341.02	140.23	5.00	87.00	0.00	0.00	0.40			
84	D	1313.30	143.60	5.00	83.00	0.00	0.00	0.40			
85	A	1422.81	127.14	6.00	177.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1

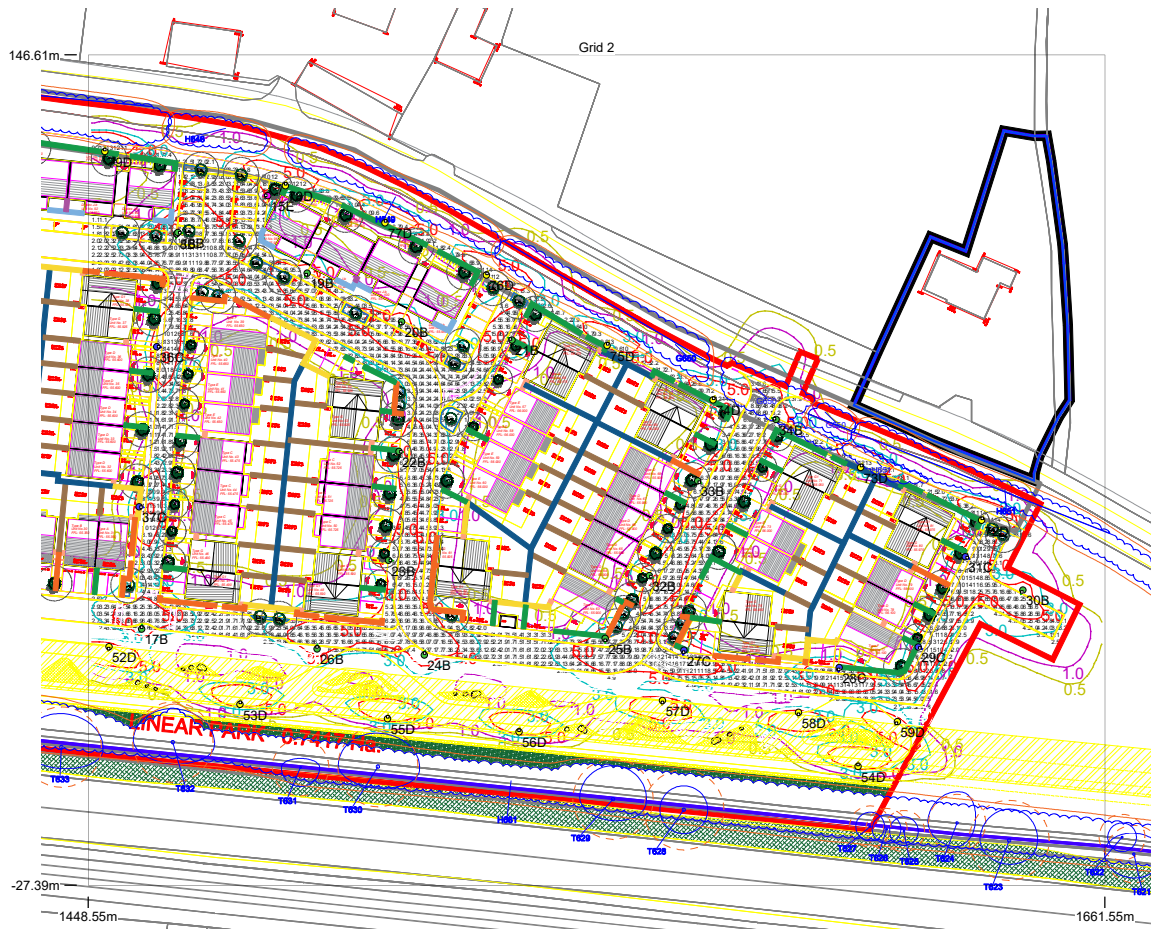


Results

Eav	5.29
Emin	1.03
Emax	18.21
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 2

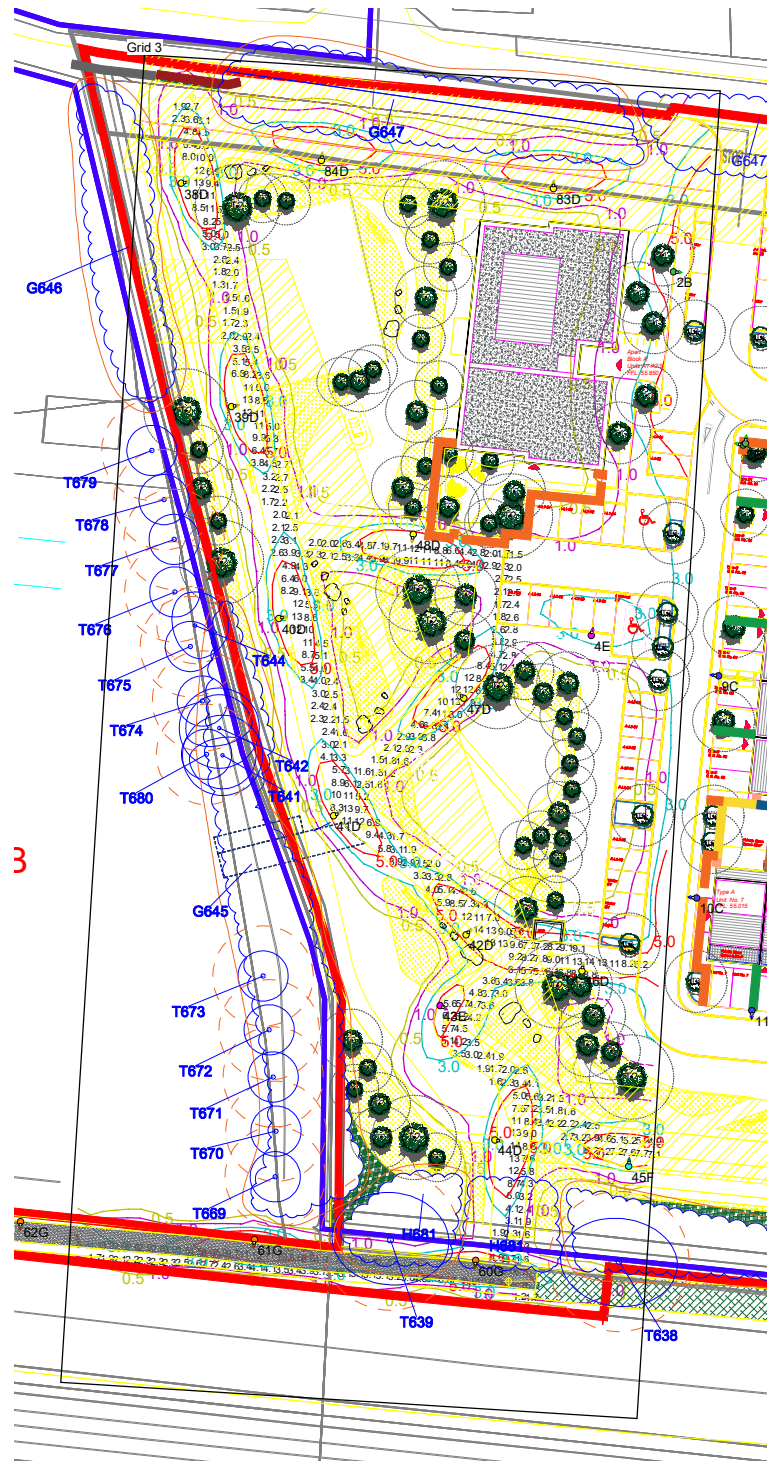


Results

Eav	5.19
Emin	1.04
E _{max}	17.41
Emin/E _{max}	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 3

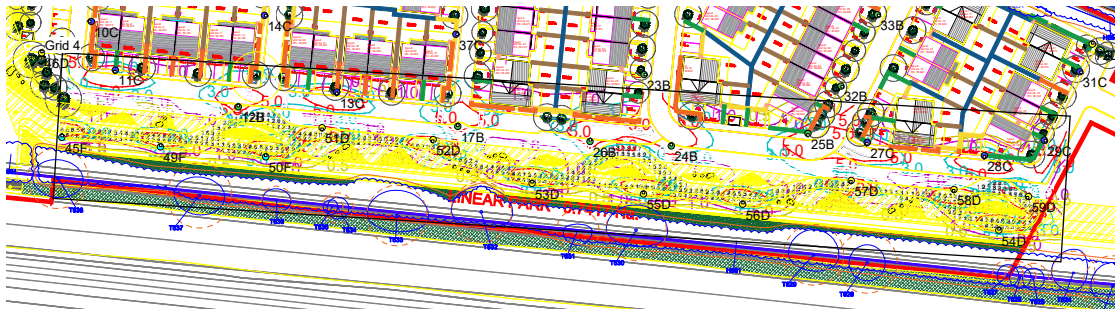


Results

Eav	5.33
Emin	1.22
Emax	14.01
Emin/Emax	0.09
Emin/Eav	0.23

Horizontal Illuminance (lux)

Grid 4



Results

Eav	4.45
Emin	1.00
Emax	13.73
Emin/Emax	0.07
Emin/Eav	0.22

Horizontal Illuminance (lux)

Grid 5



Results

Eav	5.59
Emin	1.80
Emax	11.67
Emin/Emax	0.15
Emin/Eav	0.32