DATE:	**9 November 2026**
DESIGNER:	**Alex Naper**
PROJECT No:	**SES 07726 Rev C**
PROJECT NAME:	**Confey, Leixlip - Waterman Moylan**

Sabre ELECTRICAL SERVICES LTD.

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
Contact: Alex Naper or Robbie Wilson
eMail: design@sabrelighting.ie or robbie@sabrelighting.ie

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-LP-L33-727-C0550-14W
Lamp(s)	727N
Lamp Flux (klm)	2.28
File Name	E950-28-LP-L33-727-C0550-14W.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	714.9, 133.2, 3.9
No. in Project	23



Luminaire C Data

Supplier	C U Phosco
Type	E950-28-R3A-727-C450-11W
Lamp(s)	727N
Lamp Flux (klm)	1.72
File Name	E950-28-R3A-727-C0450-11W.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 louvres 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 l...
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	1370.54	136.72	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	1363.97	109.75	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	86.00	0.00	0.00	0.40			
6	B	1402.47	118.21	6.00	271.00	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	1364.88	42.01	6.00	264.00	0.00	0.00	0.40			
12	B	1398.56	31.66	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	354.00	0.00	0.00	0.40			
15	E	1486.18	117.13	6.00	176.00	0.00	0.00	0.40			
16	C	1409.20	89.72	6.00	355.00	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	1537.54	87.23	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	1511.57	41.66	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	1632.47	42.37	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	1576.94	58.54	6.00	329.00	0.00	0.00	0.40			
34	B	1595.87	71.36	6.00	159.00	0.00	0.00	0.40			
35	A	1402.66	118.32	6.00	349.00	0.00	0.00	0.40			
36	C	1462.91	85.50	6.00	351.00	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	6.00	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	1327.20	98.81	5.00	264.00	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	1635.76	49.48	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	1451.94	127.29	5.00	83.00	0.00	0.00	0.40			
80	D	1424.51	130.21	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	1370.54	136.98	6.00	80.00	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			
86	B	1393.59	106.93	6.00	82.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1



Results

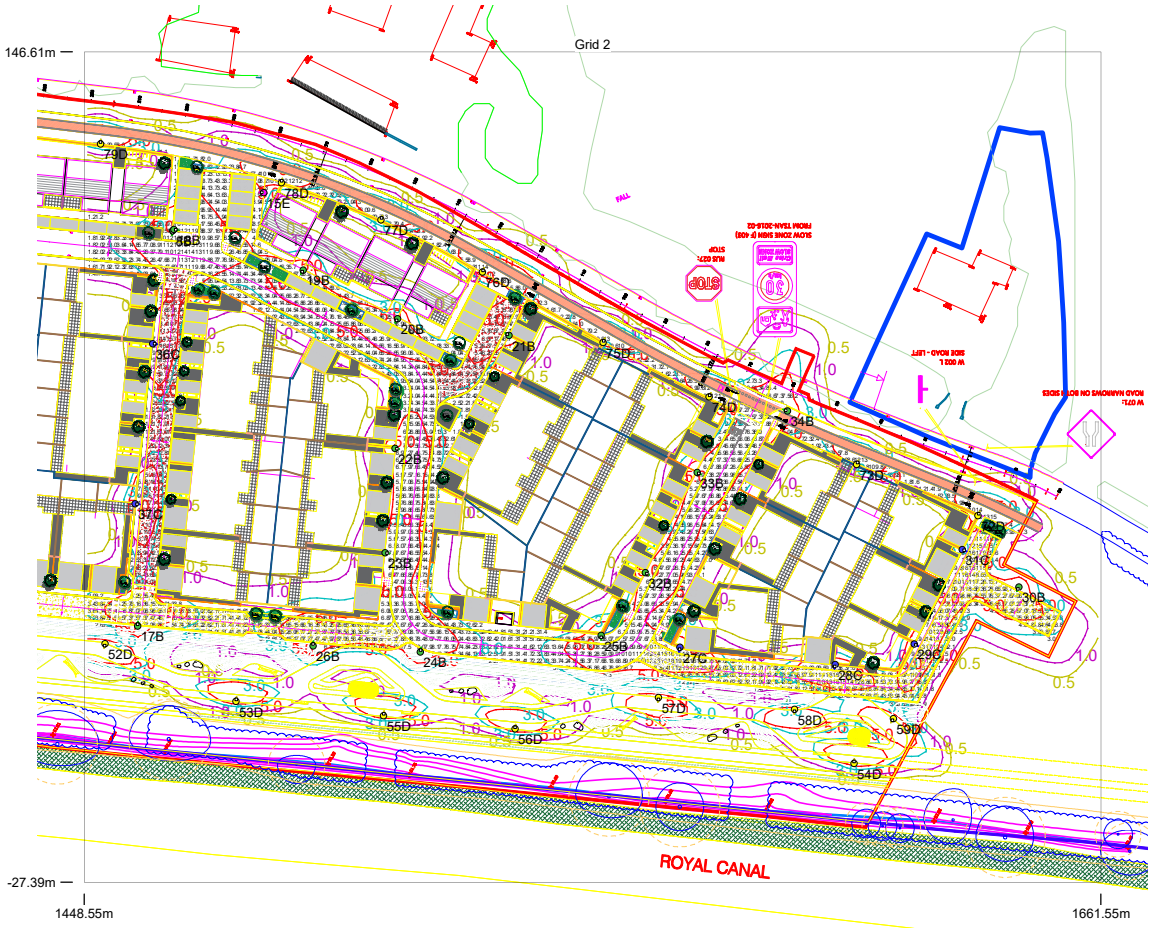
Eav	5.99
Emin	1.17
Emax	18.64
Emin/Emax	0.06
Emin/Eav	0.20

DATE: 9 November 2026 DESIGNER: Alex Naper

PROJECT No: SES 07726 Rev C PROJECT NAME: Confey, Leixlip - Waterman Moylan

Horizontal Illuminance (lux)

Grid 2

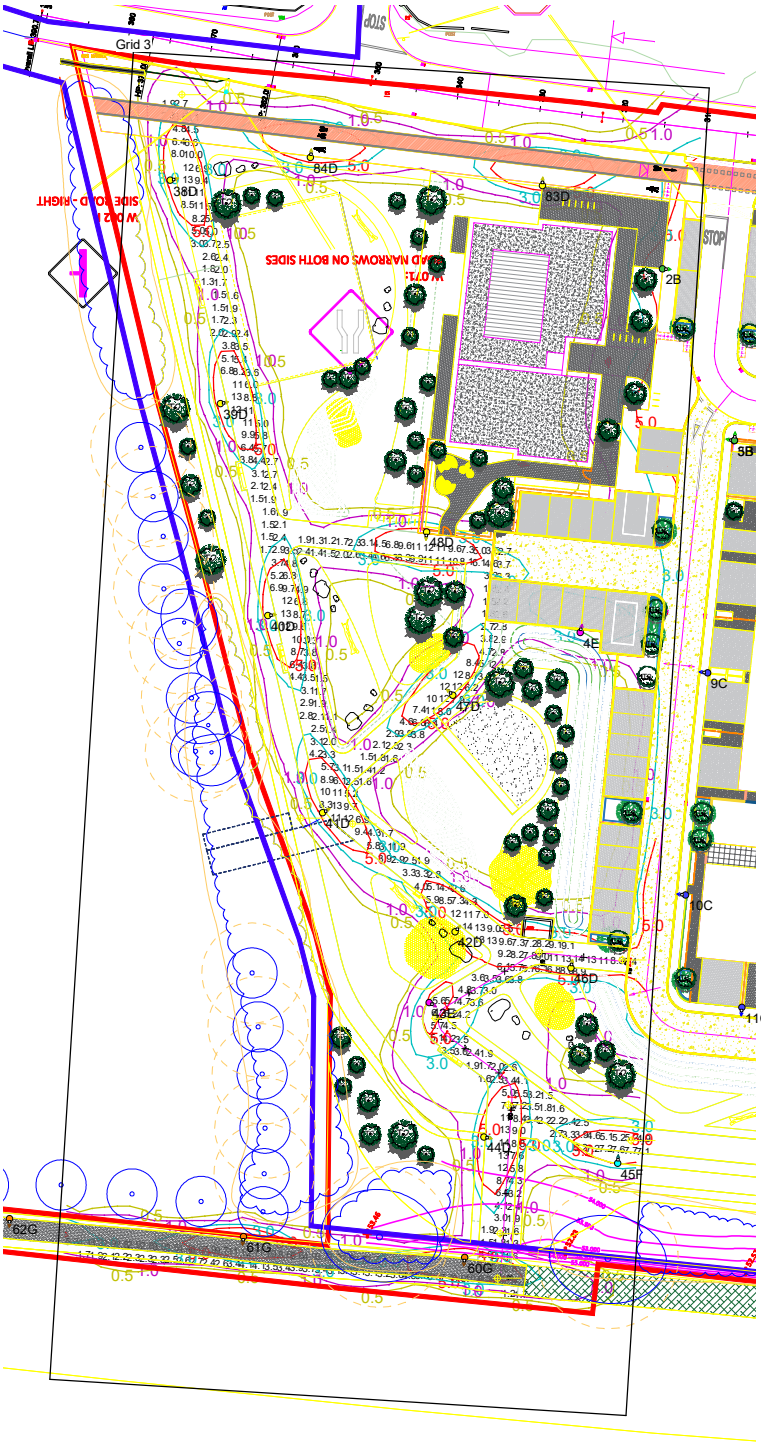


Results

Eav	5.56
Emin	1.11
Emax	19.12
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 3

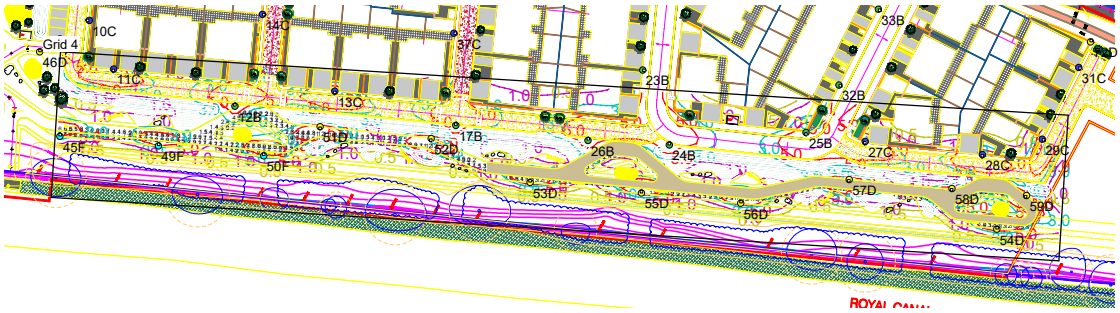


Results

Eav	5.31
Emin	1.10
Emax	14.03
Emin/Emax	0.08
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 4

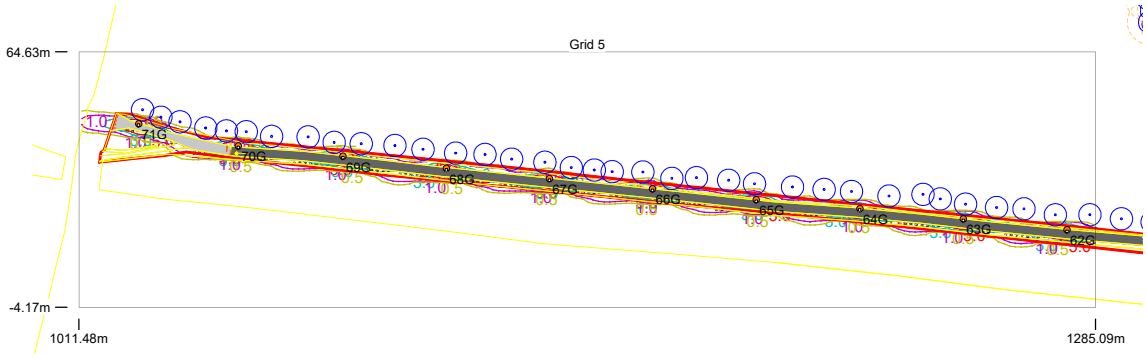


Results

Eav	4.43
Emin	0.87
Emax	13.80
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 5



Results

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

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