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APPENDIX 6-4

OUTDOOR LIGHTING REPORT

DATE: 7 July 2026

DESIGNER: Dan Staunton

PROJECT No: 26-06-23-01A

PROJECT NAME: Knocknacarra WEST, Co. Galway

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Residential Development at Knocknacarra WEST, Co. Galway

IS EN 13201-2:2015 / BS 5489-1:2020
Primary Roads & Paths - Class P3
Secondary Paths / Cycle Lanes - Class P4

Outdoor Lighting Report

Based on:
Lumen Output at 100,000 hours
Spot Lamp Replacement
Normal Environment
6 Year Cleaning Cycle
Ground is Level

PREPARED BY: Dan Staunton
Veelite Lighting Ltd
Waterford, Ireland
+353 (0)51 875399
design@veelite.com
www.veelite.ie

Layout Report

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General Data

Dimensions in Metres Angles in Degrees

Calculation Grids

ID	Grid Name	X	Y	X' Length	Y' Length	X' Spacing	Y' Spacing
1	Primary Roads & Paths [P3]...	526494.38	724471.42	193.09	350.23	1.50	1.50
2	Secondary Paths / Cycle La...	526494.38	724471.42	193.09	350.23	1.50	1.50

Luminaires

Luminaire A Data

Supplier	
Type	Veelite Civic Streetlight 27w LED Forward Thr ow A Optic
Lamp(s)	12 LED 3000K G4 700mA
Lamp Flux (klm)	3.39
File Name	5MTA10LGA-FTA-3K.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	401.3, 47.0, 0.5
No. in Project	8

Luminaire B Data

Supplier	
Type	Veelite Civic Streetlight 27w LED Street Optic R03
Lamp(s)	12 LED 3000K G4 700mA
Lamp Flux (klm)	3.40
File Name	5MTA10LGA-R03-3K.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	537.8, 56.5, 0.3
No. in Project	21

Luminaire D Data

Supplier	
Type	Veelite Civic Streetlight 14w LED Street Optic R01
Lamp(s)	8 LED 3000K G4 500mA
Lamp Flux (klm)	1.57
File Name	5MTA08LGB-R01-3K.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	680.3, 387.6, 0.6
No. in Project	13

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	B	526582.46	724771.82	6.00	167.00	0.00	0.00	0.50			
2	B	526566.46	724739.82	6.00	345.00	0.00	0.00	0.50			
3	B	526571.55	724705.90	6.00	168.00	0.00	0.00	0.50			
4	B	526559.79	724670.08	6.00	354.00	0.00	0.00	0.50			
5	B	526569.05	724637.97	6.00	167.00	0.00	0.00	0.50			
6	B	526554.22	724634.62	6.00	357.00	0.00	0.00	0.50			
7	B	526554.88	724600.89	6.00	353.00	0.00	0.00	0.50			
8	B	526569.76	724567.44	6.00	186.00	5.00	0.00	0.50			
9	B	526558.08	724538.92	6.00	353.00	0.00	0.00	0.50			

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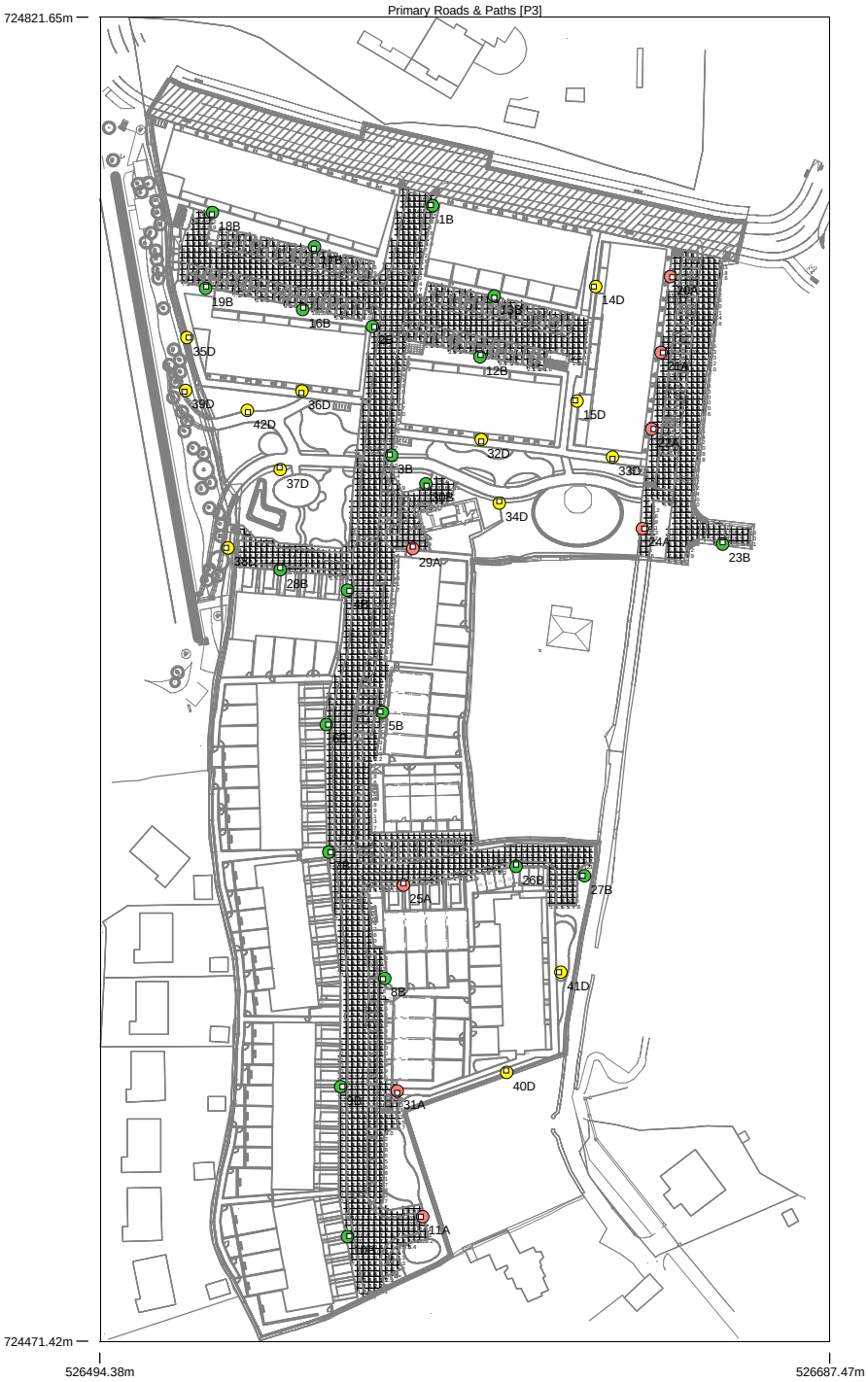
Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
10	B	526559.78	724499.26	6.00	9.00	0.00	0.00	0.50			
11	A	526579.84	724504.49	6.00	186.00	0.00	0.00	0.50			
12	B	526594.89	724731.87	6.00	77.00	0.00	0.00	0.50			
13	B	526598.75	724747.93	6.00	260.00	0.00	0.00	0.50			
14	D	526625.50	724750.39	5.00	168.00	0.00	0.00	0.50			
15	D	526620.59	724720.19	5.00	168.00	0.00	0.00	0.50			
16	B	526548.08	724744.37	6.00	76.00	0.00	0.00	0.50			
17	B	526551.17	724760.96	6.00	253.00	0.00	0.00	0.50			
18	B	526524.16	724769.98	6.00	259.00	0.00	0.00	0.50			
19	B	526522.29	724749.87	6.00	74.00	0.00	0.00	0.50			
20	A	526645.24	724753.04	6.00	346.00	0.00	0.00	0.50			
21	A	526642.84	724732.99	6.00	351.00	0.00	0.00	0.50			
22	A	526640.36	724712.81	6.00	351.00	0.00	0.00	0.50			
23	B	526659.05	724682.39	6.00	81.00	0.00	0.00	0.50			
24	A	526637.76	724686.43	6.00	351.00	0.00	0.00	0.50			
25	A	526574.72	724592.21	6.00	94.00	0.00	0.00	0.50			
26	B	526604.46	724597.16	6.00	98.00	0.00	0.00	0.50			
27	B	526622.49	724594.69	6.00	183.00	0.00	0.00	0.50			
28	B	526542.06	724675.58	6.00	80.00	0.00	0.00	0.50			
29	A	526577.12	724681.15	6.00	88.00	0.00	0.00	0.50			
30	B	526580.52	724698.22	6.00	304.00	0.00	0.00	0.50			
31	A	526573.00	724537.79	6.00	274.00	0.00	0.00	0.50			
32	D	526595.26	724709.88	5.00	259.00	0.00	0.00	0.50			
33	D	526629.86	724705.41	5.00	270.00	0.00	0.00	0.50			
34	D	526600.06	724693.23	5.00	92.00	0.00	0.00	0.50			
35	D	526517.34	724736.86	5.00	12.00	0.00	0.00	0.50			
36	D	526547.81	724722.85	5.00	260.00	0.00	0.00	0.50			
37	D	526542.10	724701.99	5.00	102.00	0.00	0.00	0.50			
38	D	526528.28	724681.30	5.00	169.00	0.00	0.00	0.50			
39	D	526517.08	724722.91	5.00	227.00	0.00	0.00	0.50			
40	D	526601.93	724542.59	5.00	106.00	0.00	0.00	0.50			
41	D	526616.24	724569.19	5.00	178.00	0.00	0.00	0.50			
42	D	526533.39	724717.69	5.00	278.00	0.00	0.00	0.50			

Horizontal Illuminance (lux)

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Primary Roads & Paths [P3]



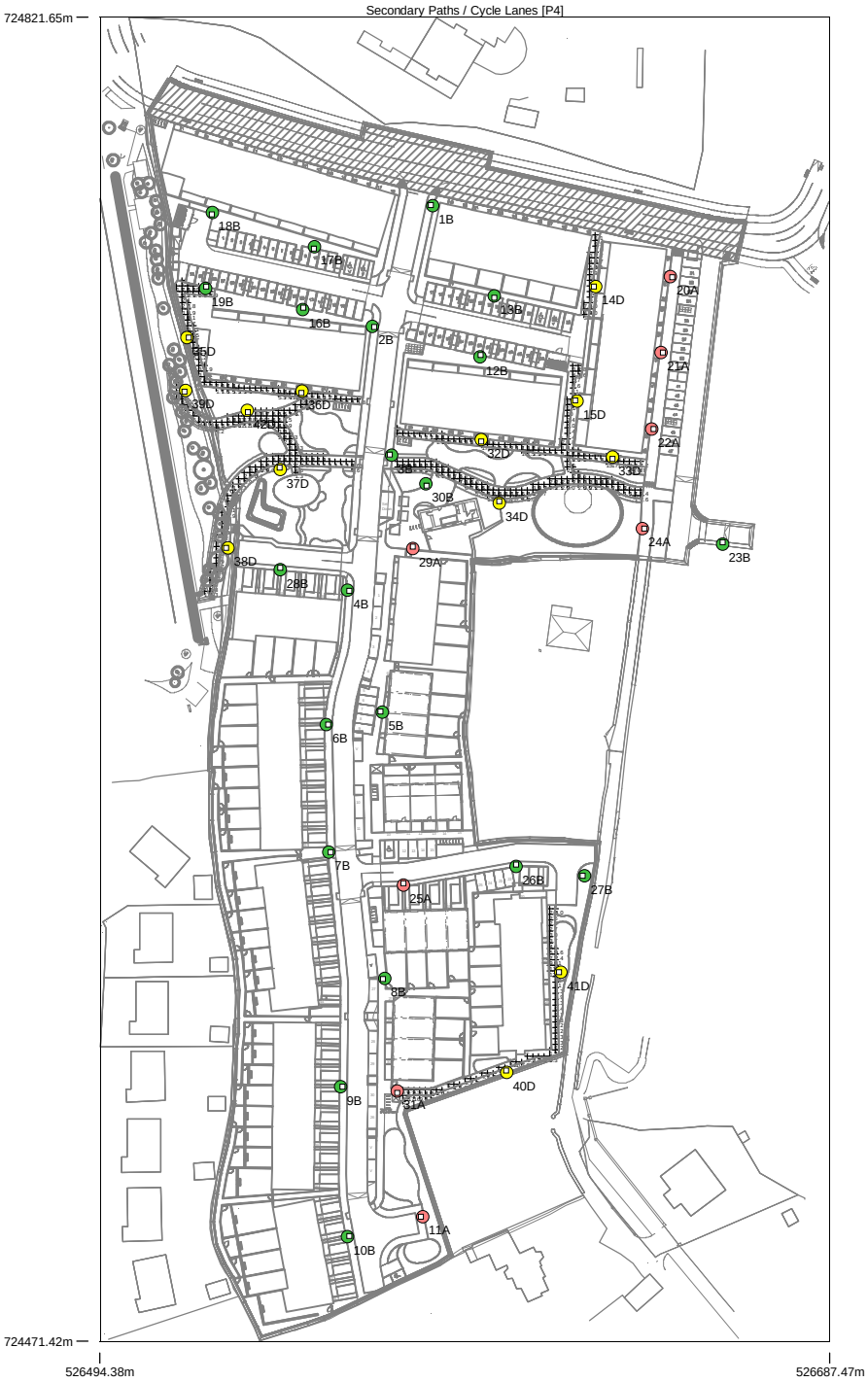
Results

Eav	7.74
Emin	1.51
Emax	23.69
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

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Secondary Paths / Cycle Lanes [P4]



Results

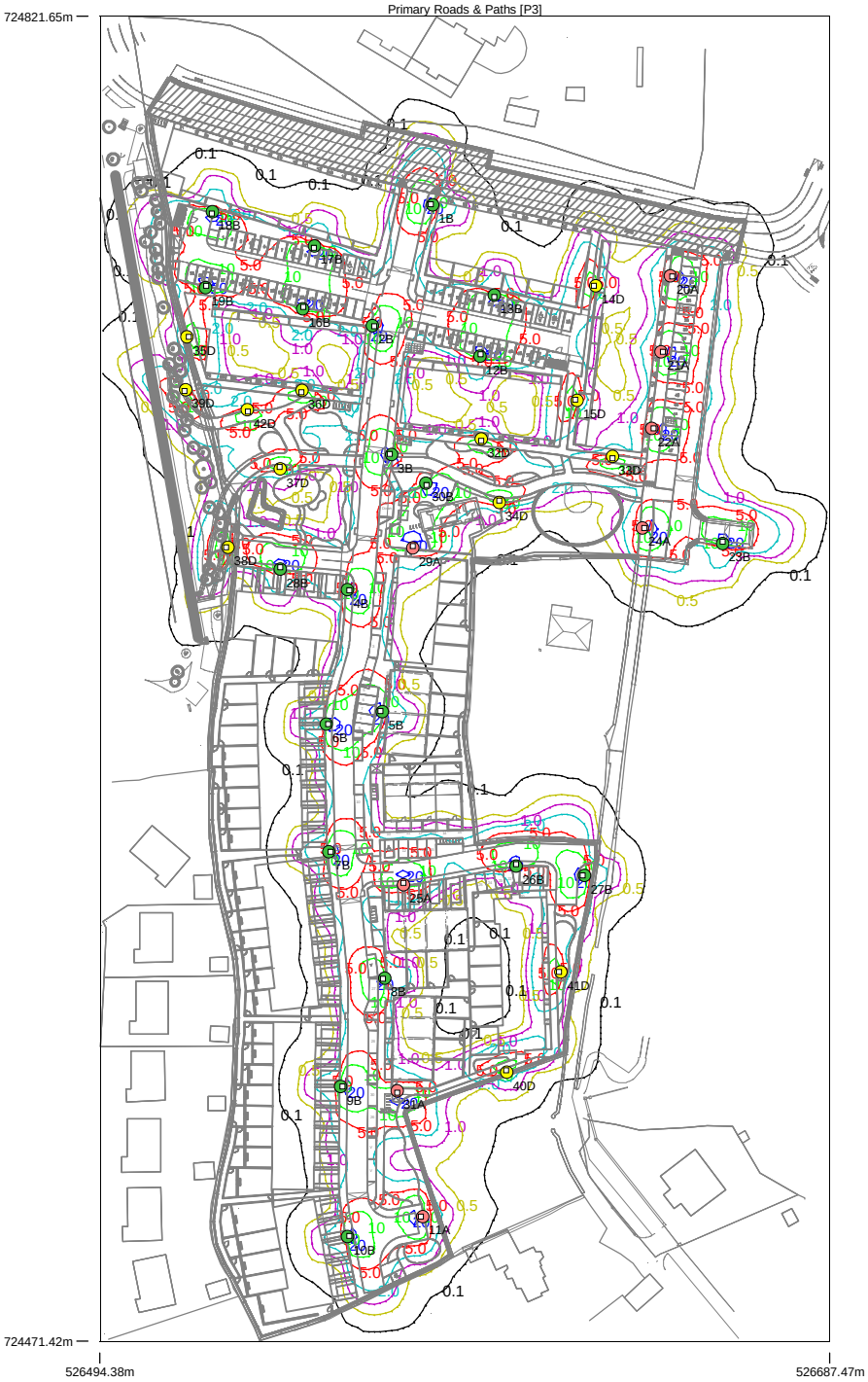
Eav	5.63
Emin	1.11
Emax	21.37
Emin/Emax	0.05
Emin/Eav	0.20

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Horizontal Illuminance (lux)

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Primary Roads & Paths [P3]



Horizontal Illuminance (lux)

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Primary Roads & Paths [P3]

