

DATE: 3 September 2024
DESIGNER: LA
PROJECT No: P1966
PROJECT NAME: MAES MERDDYN STREET LTG REPORT

**LIGHTING
REALITY**

LIGHTING CALCULATIONS: MAES MERDDYN, BRYNSIENCYN
ISSUE 4
DESIGNED TO ACHIEVE:
Roadways and Footpaths
BS5489:2013 CLASSIFICATION P4 (S/P RATIO 1.0)
MF 0.8

MAES MERDDYN STREET LTG REPORT

PREPARED BY: Carpenter Davies Partnership
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Layout Report

General Data

Dimensions in Metres Angles in Degrees
Grid Origin 122.3m x 336.1m
Area 169.4m x 140.3m
Sample Spacing 1.50m x 1.49m

Luminaires



Luminaire A Data

Supplier	Urbis Schreder
Type	AXIA 3 EVO 1 5293 8 OSLON SQUARE GI ANT@1000mA WW 727 230V 00-53
Lamp(s)	8 OSLON SQUARE GIANT@1000mA WW 727 230V 00-53-397 [CJOIO3STDA]
Lamp Flux (klm)	2.77
File Name	AXIA 3 EVO 1 5293 8 OSLON SQUARE GI ANT 1000mA WW 727 27.1W 7x7 III-Ver...
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	560.6, 25.2, 0.0
No. in Project	9

Luminaire B Data

Supplier	
Type	JE-30454-VW-9030
Lamp(s)	1 LED 3000K
Lamp Flux (klm)	0.25
File Name	JE-30454-VW-9030.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	26.0, 6.7, 0.8
No. in Project	40

Layout

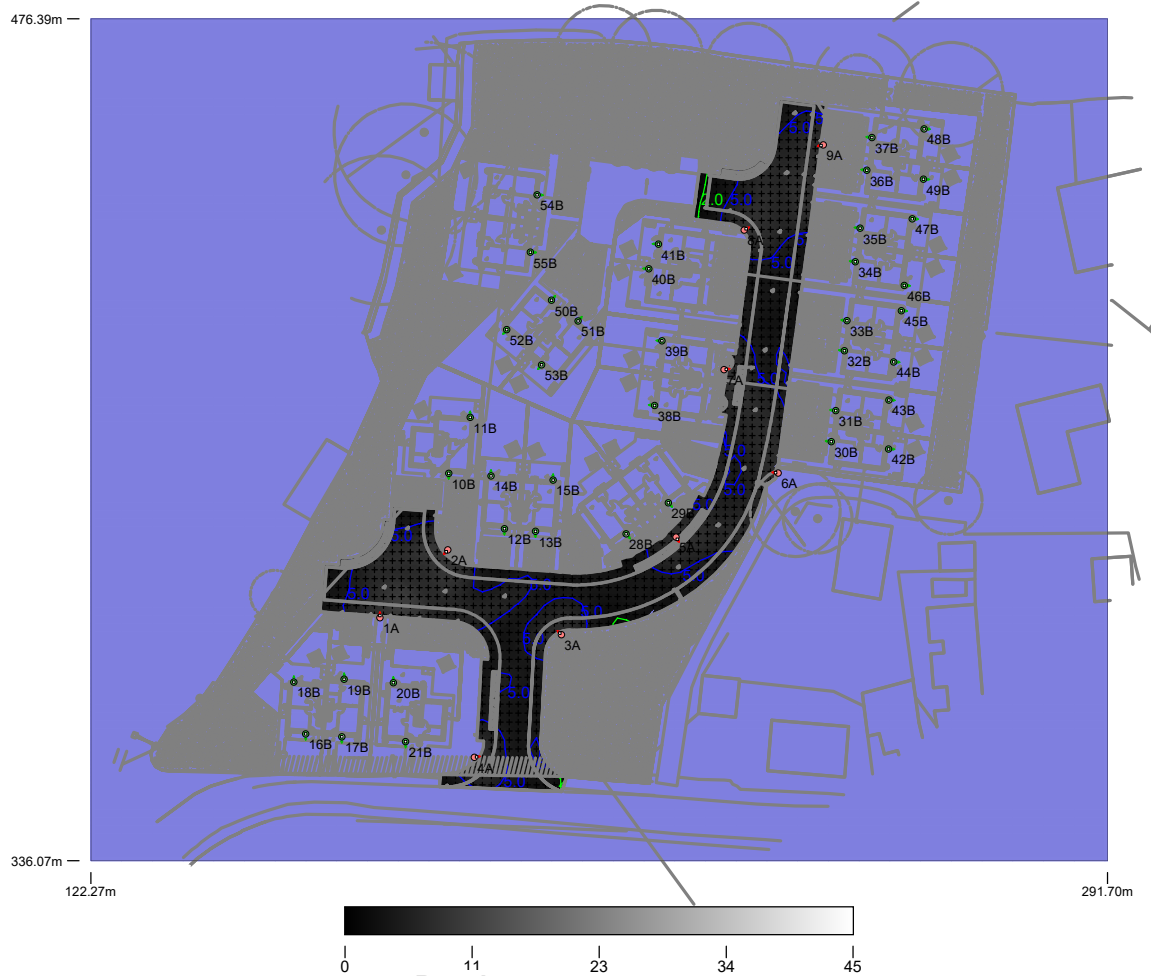
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	170.42	376.59	6.00	90.00	0.00	0.00	0.40			
2	A	181.75	387.91	6.00	226.00	0.00	0.00	0.40			
3	A	200.66	373.78	6.00	135.00	0.00	0.00	0.40			
4	A	186.14	353.37	6.00	8.00	0.00	0.00	0.40			
5	A	219.77	390.03	6.00	302.00	0.00	0.00	0.40			
6	A	236.76	400.73	6.00	176.00	0.00	0.00	0.40			
7	A	227.74	417.93	6.00	9.00	0.00	0.00	0.40			
8	A	231.10	441.21	6.00	28.00	0.00	0.00	0.40			
9	A	244.30	455.37	6.00	191.00	0.00	0.00	0.40			
10	B	181.87	400.69	2.00	270.00	0.00	0.00	0.00			
11	B	185.45	410.02	2.00	89.00	0.00	0.00	0.00			
12	B	191.15	391.41	2.00	270.00	0.00	0.00	0.00			
13	B	196.32	390.98	2.00	270.00	0.00	0.00	0.00			
14	B	188.91	400.26	2.00	90.00	0.00	0.00	0.00			
15	B	199.25	399.57	2.00	90.00	0.00	0.00	0.00			
16	B	158.06	357.23	2.00	270.00	0.00	0.00	0.00			
17	B	164.06	356.76	2.00	270.00	0.00	0.00	0.00			
18	B	156.08	365.89	2.00	90.00	0.00	0.00	0.00			
19	B	164.48	366.36	2.00	90.00	0.00	0.00	0.00			
20	B	172.67	365.79	2.00	90.00	0.00	0.00	0.00			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
21	B	174.70	355.98	2.00	270.00	0.00	0.00	0.00			
28	B	211.46	390.56	2.00	310.00	0.00	0.00	0.00			
29	B	218.50	395.78	2.00	310.00	0.00	0.00	0.00			
30	B	245.64	405.96	2.00	175.00	0.00	0.00	0.00			
31	B	246.38	411.13	2.00	175.00	0.00	0.00	0.00			
32	B	247.82	421.10	2.00	175.00	0.00	0.00	0.00			
33	B	248.25	426.12	2.00	175.00	0.00	0.00	0.00			
34	B	249.64	435.93	2.00	175.00	0.00	0.00	0.00			
35	B	250.43	441.52	2.00	175.00	0.00	0.00	0.00			
36	B	251.55	451.17	2.00	175.00	0.00	0.00	0.00			
37	B	252.41	456.61	2.00	175.00	0.00	0.00	0.00			
38	B	216.18	411.98	2.00	175.00	0.00	0.00	0.00			
39	B	217.44	422.72	2.00	175.00	0.00	0.00	0.00			
40	B	215.24	434.72	2.00	175.00	0.00	0.00	0.00			
41	B	216.81	438.83	2.00	175.00	0.00	0.00	0.00			
42	B	255.18	404.74	2.00	356.00	0.00	0.00	0.00			
43	B	255.23	412.89	2.00	356.00	0.00	0.00	0.00			
44	B	256.03	419.24	2.00	356.00	0.00	0.00	0.00			
45	B	257.31	427.77	2.00	356.00	0.00	0.00	0.00			
46	B	257.79	431.98	2.00	356.00	0.00	0.00	0.00			
47	B	259.12	443.07	2.00	356.00	0.00	0.00	0.00			
48	B	261.10	458.05	2.00	356.00	0.00	0.00	0.00			
49	B	260.99	449.68	2.00	356.00	0.00	0.00	0.00			
50	B	198.99	429.52	2.00	48.00	0.00	0.00	0.00			
51	B	203.42	426.03	2.00	48.00	0.00	0.00	0.00			
52	B	191.56	424.60	2.00	230.00	0.00	0.00	0.00			
53	B	197.38	418.74	2.00	230.00	0.00	0.00	0.00			
54	B	196.62	447.07	2.00	356.00	0.00	0.00	0.00			
55	B	195.50	437.54	2.00	356.00	0.00	0.00	0.00			

Horizontal Illuminance (lux)

Grid 1



Results

Eav	5.62
Emin	1.48
Emax	10.85
Emin/Emax	0.14
Emin/Eav	0.26