

DATE: 18 August 2026
DESIGNER: MMA Lighting Consultancy Ltd
PROJECT No: MMA20261
PROJECT NAME: Varteg Road, Bryn, Port Talbot



MMA20261 - Varteg Road, Bryn, Port Talbot - S278 Lighting - Area Calculation - R1

6m Neath Port Talbot County Council road lighting columns with a 0.2m hockeystick bracket and side entry Thorn Isaro Pro LED lanterns.

Lighting class P5 selected in accordance with BS5489-1:2020.

Results Required

Eav = 3.00 to 4.50 Lux

Emin = 0.60 Lux

Emin / Eav = 0.20

Base used GHY-ENT-02-Xref-02 - Proposed site v6a3

Outdoor Lighting Report

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Layout Report

General Data

Dimensions in Metres Angles in Degrees
Grid Origin 281100.5m x 191778.0m
Area 159.0m x 161.8m
Sample Spacing 1.50m x 1.50m

Luminaires



Luminaire A Data

Supplier	Thorn Lighting UK & Ireland
Type	Isaro Pro Small 12LED 350mA WSC optic
Lamp(s)	LED 3000K CRI 70
LampFlux(klm)/Colour	1.86 3000/70
File Name	IP12L35WSC730.LDT
Maintenance Factor	0.76
Lum. Int. Class	G3
No. in Project	9



Luminaire B Data

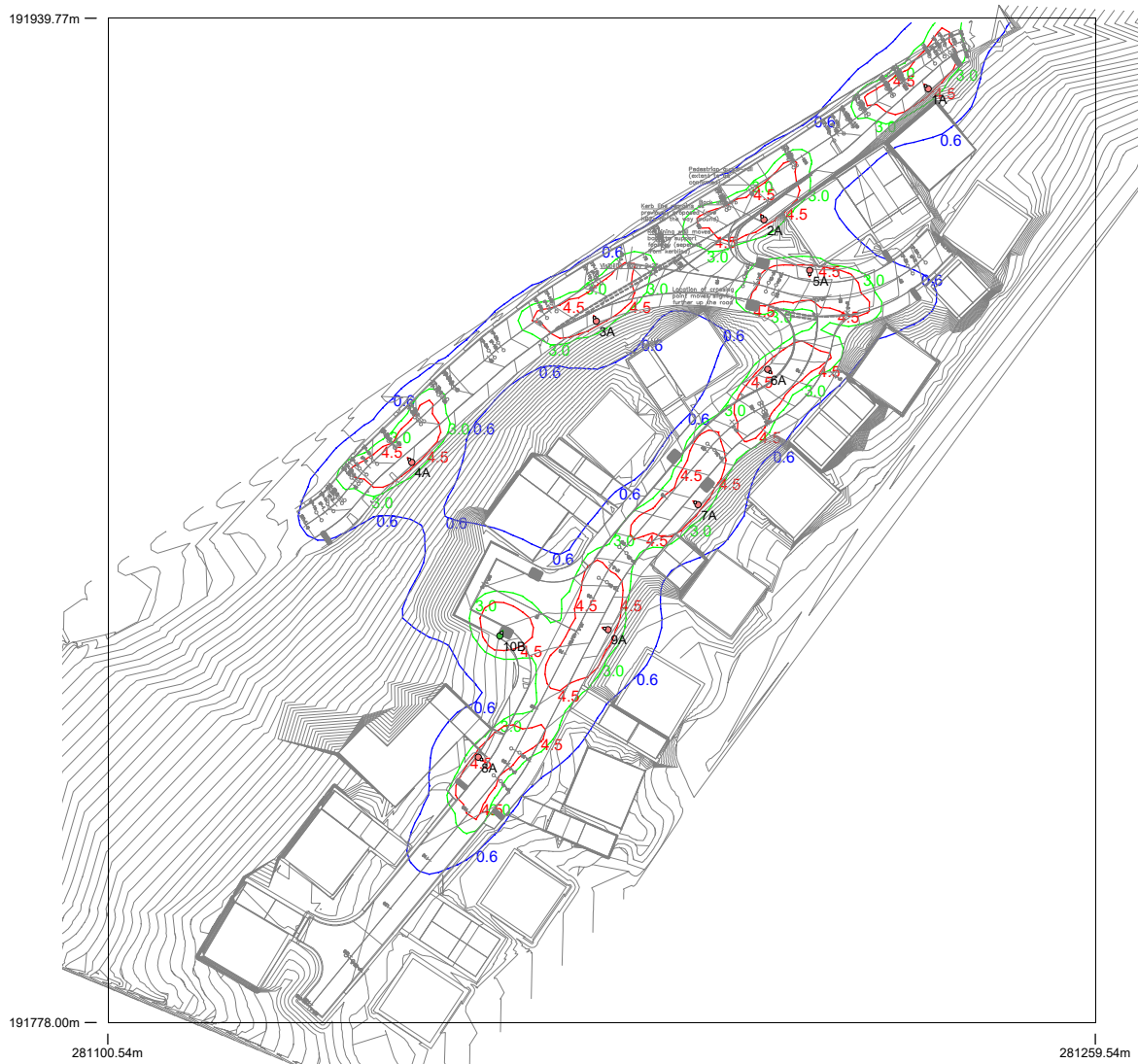
Supplier	Thorn Lighting UK & Ireland
Type	Isaro Pro Small 12LED 350mA EWR optic
Lamp(s)	LED 3000K CRI 70
LampFlux(klm)/Colour	1.87 3000/70
File Name	IP12L35EWR730.LDT
Maintenance Factor	0.76
Lum. Int. Class	G3
No. in Project	1

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	281232.61	191928.40	6.00	132.00	0.00	0.00	0.60			
2	A	281206.16	191907.30	6.00	122.00	0.00	0.00	0.60			
3	A	281179.16	191890.99	6.00	118.00	0.00	0.00	0.60			
4	A	281149.45	191868.26	6.00	132.00	0.00	0.00	0.60			
5	A	281213.54	191899.14	6.00	266.00	0.00	0.00	0.60			
6	A	281206.75	191883.22	6.00	315.00	0.00	0.00	0.60			
7	A	281195.55	191861.46	6.00	143.00	0.00	0.00	0.60			
8	A	281160.19	191820.80	6.00	322.00	0.00	0.00	0.60			
9	A	281181.08	191841.34	6.00	161.00	0.00	0.00	0.60			
10	B	281163.65	191840.29	6.00	62.00	0.00	0.00	0.60			

Horizontal Illuminance (lux)

Grid 1



Results

Eav	3.97
Emin	0.78
Emax	9.01
Emin/Emax	0.09
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 1

