

DATE: 3 November 2021
DESIGNER: M Bray
PROJECT No: GC/4015 1301-P02
PROJECT NAME: Meadow Road, Neath

**LIGHTING
REALITY**

Design layout complies with BS 5489-1:2020
and BS EN 13201:2015, Class P4
(with relaxation to Class P5 near plots 17-27)

Outdoor Lighting Report

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	S278	275081.74	196222.43	190.88	147.04	1.49	1.49
2	S38	274967.15	196197.87	67.69	26.21	1.47	1.46
3	Private	275082.03	196222.00	190.88	147.04	1.49	1.49
4	P5	275111.25	196076.69	47.33	66.31	1.48	1.47

Luminaires

Luminaire A Data



Supplier	Thorn
Type	ISARO PRO S - 12 x Neutral White 4000K L ED CRI70 700mA - EWC
Lamp(s)	LED_4000K
LampFlux(klm)/Colour	3.71 4000/70
File Name	IP12L70EWC740G36_DC.LDT
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	716.1, 93.0, 0.0
No. in Project	7

Luminaire B Data



Supplier	Thorn
Type	ISARO PRO S - 12 x Neutral White 4000K L ED CRI70 500mA - EWC
Lamp(s)	LED_4000K
LampFlux(klm)/Colour	2.76 4000/70
File Name	IP12L50EWC740G36_DC.LDT
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	716.1, 93.0, 0.0
No. in Project	2

Luminaire C Data



Supplier	Thorn
Type	ISARO PRO S - 12 x Neutral White 4000K L ED CRI70 500mA - NR O
Lamp(s)	LED_4000K
LampFlux(klm)/Colour	2.80 4000/70
File Name	IP12L50NR740G36_DC.LDT
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	602.6, 98.0, 0.0
No. in Project	1

Luminaire D Data



Supplier	Thorn
Type	ISARO PRO S - 12 x Neutral White 4000K L ED CRI70 350mA - EWS
Lamp(s)	LED_4000K
LampFlux(klm)/Colour	1.97 4000/70
File Name	IP12L35EWS740G36_DC.LDT
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	714.5, 193.2, 0.0
No. in Project	1

Luminaire E Data



Supplier	Thorn
Type	ISARO PRO S - 12 x Neutral White 4000K L ED CRI70 350mA - NR O
Lamp(s)	LED_4000K
LampFlux(klm)/Colour	2.03 4000/70
File Name	IP12L35NR740G36_DC.LDT
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	602.6, 98.0, 0.0
No. in Project	2

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	274946.54	196140.15	6.00	24.00	0.00	0.00	0.60			
2	B	274929.99	196159.99	6.00	88.00	0.00	0.00	0.60			
3	B	274955.88	196165.41	6.00	108.00	0.00	0.00	0.60			
4	A	274964.81	196111.11	6.00	178.00	0.00	0.00	0.60			
5	A	274975.13	196083.61	6.00	200.00	0.00	0.00	0.60			
6	A	274991.83	196064.70	6.00	124.00	5.00	0.00	0.60			
7	A	275013.64	196096.53	6.00	327.00	0.00	0.00	0.60			
9	A	275031.09	196120.86	6.00	329.00	0.00	0.00	0.60			
10	A	275059.83	196149.38	6.00	292.00	5.00	0.00	0.60			
11	E	275079.45	196128.57	6.00	24.00	0.00	0.00	0.60			
13	E	275098.31	196107.05	6.00	51.00	0.00	0.00	0.60			
14	C	275027.97	196069.20	6.00	238.00	0.00	0.00	0.60			
15	D	275006.54	196061.96	6.00	210.00	0.00	0.00	0.60			

Horizontal Illuminance (lux)

S278



Results

Eav	5.36
Emin	1.07
Emax	19.33
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

P5



Results

Eav	4.44
Emin	0.98
Emax	8.93
Emin/Emax	0.11
Emin/Eav	0.22