

DATE: 26 May 2021
DESIGNER: M Bray
PROJECT No: GC/3907-1301-P01
PROJECT NAME: Aldi Neath Abbey Road - Thorn Lighting

**LIGHTING
REALITY**

Design layout complies with BS 5489-1:2020 & BS EN 13201:2015

Class P3 for the Access Road
Class C3 for the Junction conflict area

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	Grid 1	274474.61	197609.13	39.83	128.10	1.48	1.49
2	Grid 2	274527.03	197655.50	162.56	31.01	1.49	1.48

Luminaires

Luminaire A Data



Supplier	Thorn
Type	ISARO PRO L - 60 x Neutral White 4000K L ED CRI70 350mA - TR O
Lamp(s)	LED_4000K
LampFlux(klm)/Colour	10.00 4000/70
File Name	IP60L35TR740G36_DC.LDT
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	668.9, 69.9, 0.0
No. in Project	5

Luminaire B Data



Supplier	Thorn
Type	ISARO PRO S - 12 x Neutral White 4000K L ED CRI70 1050mA - ES
Lamp(s)	LED_4000K
LampFlux(klm)/Colour	5.13 4000/70
File Name	IP12L105ES740G36_DC.LDT
Maintenance Factor	0.76
Imax70,80,90(cd/klm)	573.3, 193.4, 0.0
No. in Project	3

Luminaire E Data



Supplier	Holophane Europe
Type	VMX.2.LA064.V1.L2L4.W052
Lamp(s)	LED C.6000 Lumens
Lamp Flux (klm)	7.32
File Name	VMX.2.LA064.V1.L2L4.W052.IES
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	616.4, 33.6, 0.0
No. in Project	2

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
374-PCN-	E	274513.25	197636.04	10.00	117.00	0.00	0.00	1.30			
377-WPD-	A	274428.44	197605.43	10.00	104.00	0.00	0.00	1.30			
376-PCN-	A	274462.77	197615.10	10.00	110.00	0.00	0.00	1.30			
4	A	274455.52	197604.20	10.00	192.00	0.00	0.00	1.30			
375-PCN-FP-	A	274486.71	197625.28	10.00	111.00	0.00	0.00	1.30			
378-WPD-	A	274393.99	197599.24	10.00	98.00	0.00	0.00	1.30			
379	E	274357.20	197592.49	10.00	98.00	0.00	0.00	1.30			
8	B	274464.04	197576.06	6.00	197.00	0.00	0.00	0.30			
9	B	274486.58	197509.48	6.00	198.00	0.00	0.00	0.30			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
10	B	274474.04	197542.28	6.00	194.00	0.00	0.00	0.30			

Horizontal Illuminance (lux)

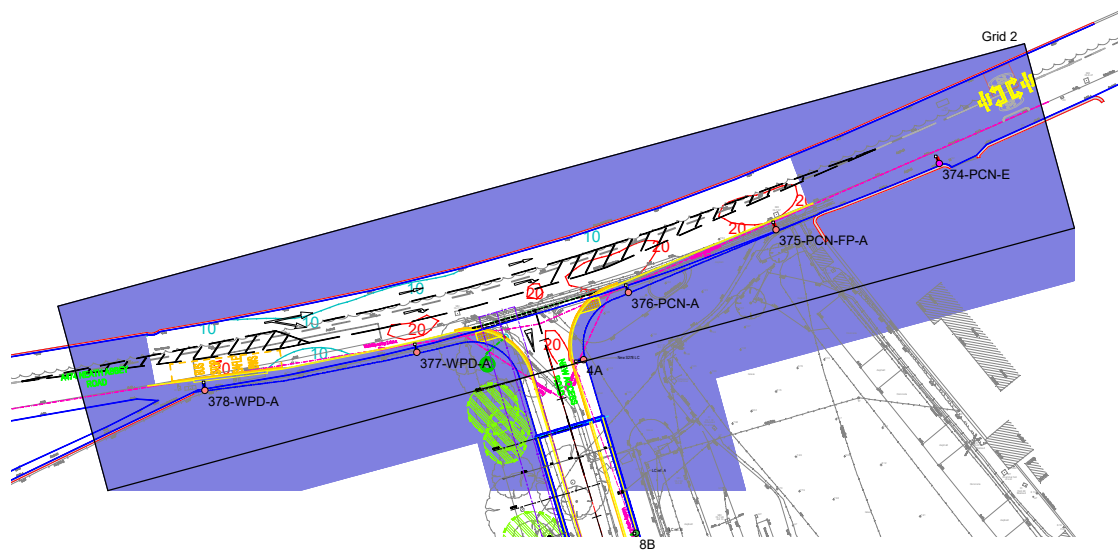
Grid 1

**Results**

Eav	7.94
Emin	1.60
Emax	25.06
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 2



Results

Eav	16.12
Emin	7.36
Emax	22.29
Emin/Emax	0.33
Emin/Eav	0.46