

DATE: 23 August 2026
DESIGNER: Lorraine Calcott IEng FILP MSLL IALD CLD
PROJECT No: 03-24-S38-LO-D
PROJECT NAME: S38 Adoptable lighting



Lighting designed to P5 and can be dimmed by 6% initially to ensure lux levels on the horizontal and vertical surfaces/receptor locations are sufficiently low to not cause negative impacts and to comply with Natural Englands aspirations for the route. British Standards and the LPA's requirements for lighting must also be met as once something is going to be lit it must be lit to a level of recognised compliance. Type B are our choice of luminaire and shows front and back louvres, Light levels are at the lowest possible for this type of application. Both Front and back light reduction is shown and vertical grid demonstrates impacts up to 5m high in locations shown and this improves on the options allowed by the councils standard specification.

Linear Park Phase 3, Arborfield

PREPARED BY: it does Lighting Ltd
The Cube
1 Bowmere
Boulmer
Alnwick
Northumberland
NE66 3DA
Social Impact Consulting, Lighting design, Light and Health
research
Bringing Ideas to Light!
Call us now 0345 034 2026

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 - P5	477135.04	165343.41	121.36	428.06	1.21	1.71
2	Grid 2 - Vertical Grid 1	477266.83	165447.56	242.68	6.00	1.00	0.50
3	Grid 3 - Vertical Grid 2	477357.16	165662.50	64.34	6.00	0.50	0.50
4	Grid 4 - Vertical Grid 3	477314.13	165581.70	53.16	6.00	0.50	0.50

Luminaires

Luminaire B Data

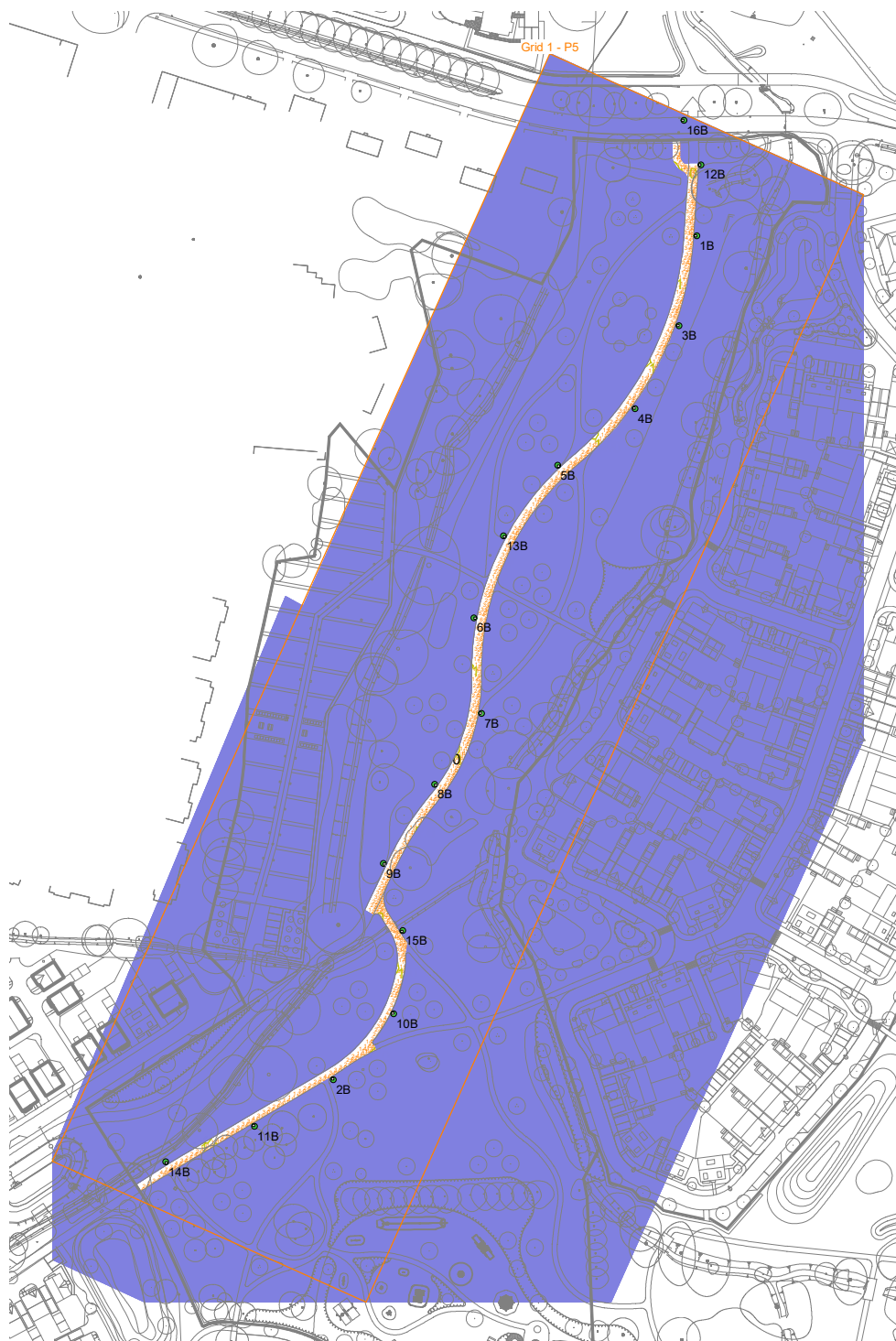
Supplier	
Type	AXIA 3.1 5267 Integrated lenses Front-Rear louvers 16 OSLO S
Lamp(s)	16 OSLO SQUARE GIANT@200mA WW 730 230V 01-37-041
LampFlux(klm)/Colour	0.88 WW 3000K/70
File Name	AXIA 3.1 5267 16 OSLO SQUARE GIANT 200mA WW 730 11.2W 432072 Integrated ...
Maintenance Factor	0.85
Lum. Int. Class	G1
No. in Project	16

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	B	477362.35	165669.64	5.00	177.00	0.00	0.00	0.40			
2	B	477234.14	165372.10	5.00	124.00	0.00	0.00	0.40			
3	B	477356.11	165637.92	5.00	161.00	0.00	0.00	0.40			
4	B	477340.57	165608.67	5.00	143.00	0.00	0.00	0.40			
5	B	477313.33	165588.79	5.00	310.00	0.00	0.00	0.40			
6	B	477283.73	165534.92	5.00	352.00	0.00	0.00	0.40			
7	B	477286.43	165501.30	5.00	173.00	0.00	0.00	0.40			
8	B	477269.87	165476.25	5.00	319.00	0.00	0.00	0.40			
9	B	477251.77	165448.30	5.00	332.00	0.00	0.00	0.40			
10	B	477255.47	165395.34	5.00	150.00	0.00	0.00	0.40			
11	B	477206.29	165355.63	5.00	122.00	0.00	0.00	0.40			
12	B	477363.83	165694.72	5.00	181.00	0.00	0.00	0.40			
13	B	477294.16	165563.83	5.00	327.00	0.00	0.00	0.40			
14	B	477175.01	165343.12	5.00	298.00	0.00	0.00	0.40			
15	B	477258.65	165424.65	5.00	214.00	0.00	0.00	0.40			
16	B	477357.80	165710.41	5.00	182.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1 - P5



Results

Eav	3.04
Emin	0.72
E _{max}	7.72
E _{min} /E _{max}	0.09
E _{min} /E _{av}	0.24

Illuminance (lux)

Grid 2 - Vertical Grid 1



Results

Eav	0.04
Emin	0.00
Emax	1.34
Emin/Emax	0.00
Emin/Eav	0.00

Illuminance (lux)

Grid 3 - Vertical Grid 2

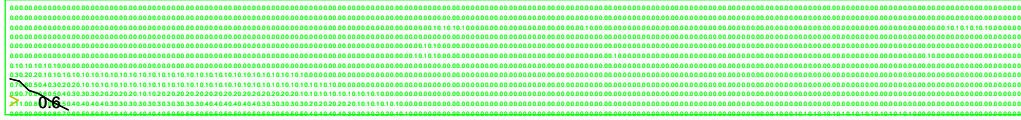


Results

Eav	0.19
Emin	0.00
E _{max}	3.17
Emin/E _{max}	0.00
Emin/Eav	0.00

Illuminance (lux)

Grid 4 - Vertical Grid 3



Results

Eav	0.05
Emin	0.00
Emax	1.12
Emin/Emax	0.00
Emin/Eav	0.00