

DATE: 18 February 2025
DESIGNER: SHD Lighting Consultancy Ltd
PROJECT No: SHD1812
PROJECT NAME: Buxton Road, BESS



It is assumed that the luminaires are to be angled at 0° tilt to the horizontal plane and shall be switched using motion sensors, activated only when vehicles or pedestrians are detected.

Isolux contour lines shown represent a 'day one' worst-case scenario with a maintenance factor of 1.0, as this demonstrates the maximum lumen output not taking into consideration any LED degradation, driver deterioration or weather grime and lens dirt which will occur during the lifespan of the lighting installation.

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: Whole Area	407325.63	376535.78	175.00	175.00	1.00	1.00
2	Grid 2: North vertical gri...	407362.56	376703.74	140.00	10.00	1.00	1.00
3	Grid 3: East vertical grid	407496.37	376669.00	140.00	10.00	1.00	1.00
4	Grid 4: South vertical gri...	407463.75	376534.59	140.00	10.00	1.00	1.00
5	Grid 5: West vertical grid	407326.92	376572.95	140.00	10.00	1.00	1.00

Luminares

Luminaire A Data

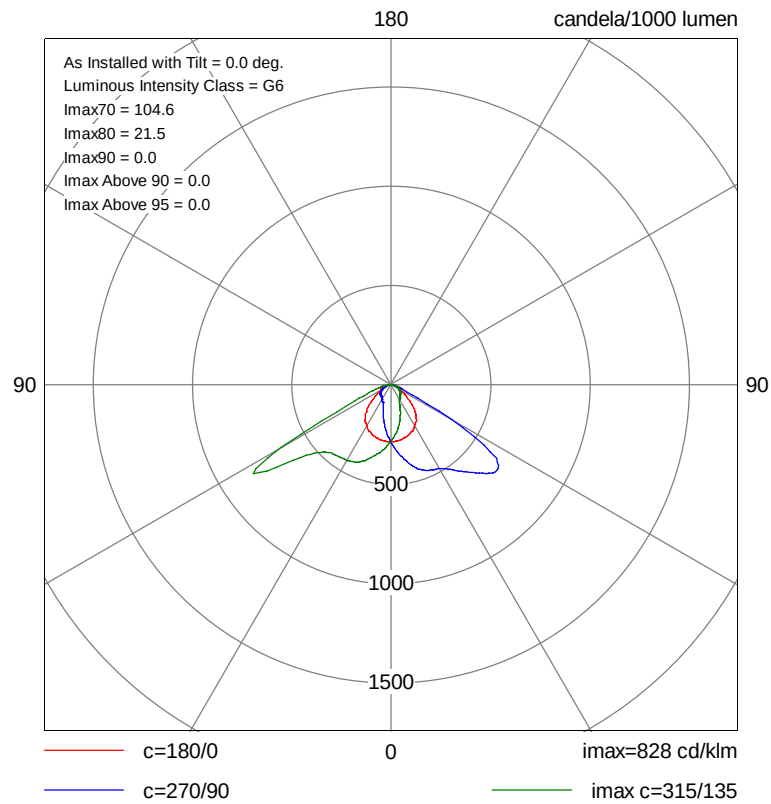
Supplier	Thorn Lighting UK & Ireland
Type	AFP2 S 24L35-740 A4 CL1 GY
Lamp(s)	AFP24L35-740A4_N 26W
LampFlux(klm)/Colour	4.40 4000/70
File Name	96635899_(STD).LDT
Maintenance Factor	1.00
Lum. Int. Class	G6
No. in Project	9

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	407387.92	376584.86	4.00	45.00	0.00	0.00	0.40			
2	A	407420.95	376578.28	4.00	136.00	0.00	0.00	0.40			
3	A	407396.48	376658.38	4.00	315.00	0.00	0.00	0.40			
4	A	407438.20	376644.37	4.00	227.00	0.00	0.00	0.40			
5	A	407438.08	376621.60	4.00	3.00	0.00	0.00	0.40			
6	A	407436.46	376598.27	4.00	6.00	0.00	0.00	0.40			
7	A	407389.85	376615.82	4.00	355.00	0.00	0.00	0.40			
8	A	407420.10	376619.35	4.00	177.00	0.00	0.00	0.40			
9	A	407421.39	376651.62	4.00	260.00	0.00	0.00	0.40			

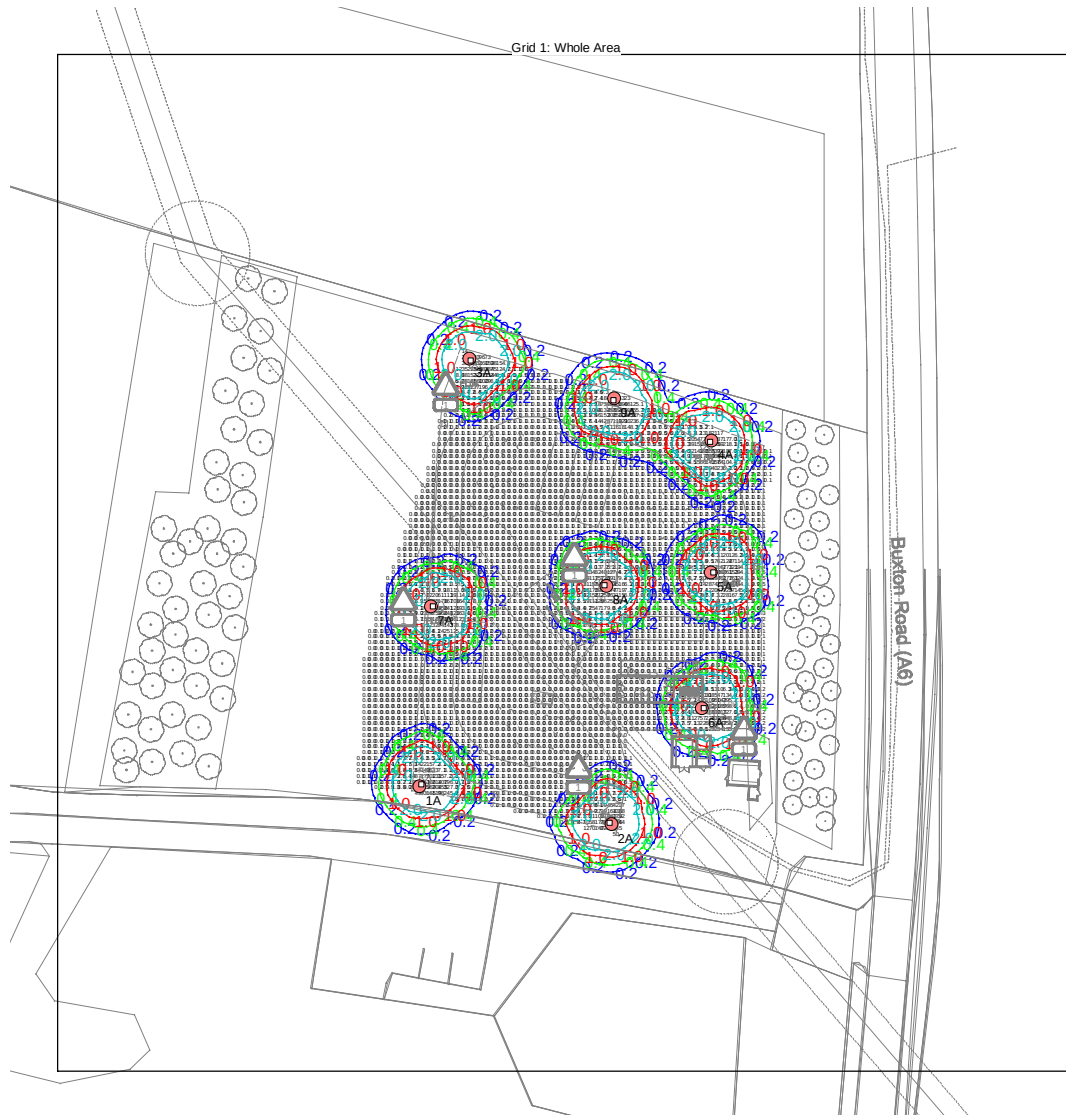
Polar Diagram

Luminaire A AFP2 S 24L35-740 A4 CL1 GY



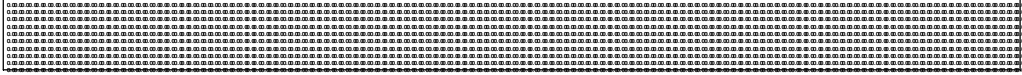
Horizontal Illuminance (lux)

Grid 1: Whole Area



Illuminance (lux)

Grid 2: North vertical grid

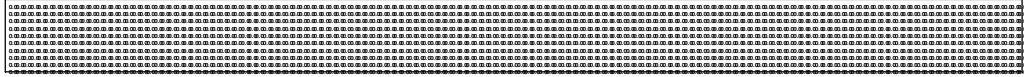


Results

Eav	0.00
Emin	0.00
Emax	0.02
Emin/Emax	0.00
Emin/Eav	0.00

Illuminance (lux)

Grid 3: East vertical grid

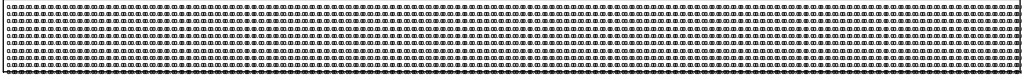


Results

Eav	0.00
Emin	0.00
Emax	0.02
Emin/Emax	0.00
Emin/Eav	0.00

Illuminance (lux)

Grid 4: South vertical grid

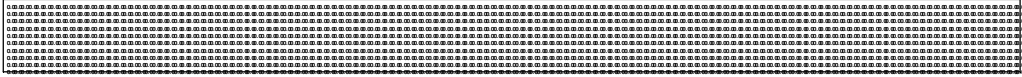


Results

Eav	0.00
Emin	0.00
Emax	0.03
Emin/Emax	0.00
Emin/Eav	0.00

Illuminance (lux)

Grid 5: West vertical grid



Results

Eav	0.00
Emin	0.00
Emax	0.01
Emin/Emax	0.00
Emin/Eav	0.00