

DATE: 27 May 2026
DESIGNER: MMA Lighting Consultancy Ltd
PROJECT No: MMA20014
PROJECT NAME: Parcel 4 Mowbray Phase 1, Horsham



Proposed Private Lighting Strategy – R1

6m Columns with Urbis Axia 3.1 2700K LED Luminaires

A maintenance factor of 1.0 has been used as an example in order to present a worst case scenario perspective.

Base drawing number used in this calculation 'SL 01 A'

Outdoor Lighting Report

PREPARED BY: MMA Lighting Consultancy Ltd
99 Old Bath Road
Summer Field House
Charvil
Reading
Berkshire
RG10 9QN
Email: info@mma-consultancy.co.uk
Web: www.mma-consultancy.co.uk

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	518556.62	134141.37	104.71	30.00	1.50	1.50
2	Grid 2	518580.04	134059.31	87.00	30.00	1.50	1.50
3	Grid 3	518577.77	134084.43	82.41	30.00	1.50	1.50
4	Grid 4	518630.66	134086.62	60.00	30.00	1.50	1.50
5	Grid 5	518627.89	134058.08	84.00	30.00	1.50	1.50
6	Grid 6	518550.26	134088.09	48.00	57.00	1.50	1.50
7	Grid 7	518587.36	134035.86	48.00	51.00	1.50	1.50
8	Contour Grid	518677.33	134186.14	171.22	216.22	1.50	1.50

Luminaires

Luminaire A Data



Supplier	Urbis Schreder
Type	AXIA 3.1 5385 Integrated lenses 8 OSLON SQUARE GIANT@700mA W
Lamp(s)	8 OSLON SQUARE GIANT@700mA WW 7 27 230V 01-37-041
LampFlux(klm)/Colour	2.13 WW 2700K/70
File Name	AXIA 3.1 5385 8 OSLON SQUARE GIANT 7 00mA WW 727 19.4W 487512 Integrated I...
Maintenance Factor	1.00
Lum. Int. Class	G1
No. in Project	1

Luminaire B Data



Supplier	Urbis Schreder
Type	AXIA 3.1 5316 Integrated lenses 8 OSLON SQUARE GIANT LED@700
Lamp(s)	8 OSLON SQUARE GIANT@700mA WW 7 27 230V 01-11-802
LampFlux(klm)/Colour	2.19 WW 2700K/70
File Name	AXIA 3.1 5316 8 OSLON SQUARE GIANT Drv 700mA WW 727 18.3W 505112 Integr...
Maintenance Factor	1.00
Lum. Int. Class	G1
No. in Project	11

Luminaire C Data



Supplier	Urbis Schreder
Type	AXIA 3.1 5266 Integrated lenses 8 OSLON SQUARE GIANT@400mA W
Lamp(s)	8 OSLON SQUARE GIANT@400mA WW 7 27 230V 01-37-041
LampFlux(klm)/Colour	1.31 WW 2700K/70
File Name	AXIA 3.1 5266 8 OSLON SQUARE GIANT 4 00mA WW 727 11W 429092 Integrated le...
Maintenance Factor	1.00
Lum. Int. Class	G1
No. in Project	2

Layout

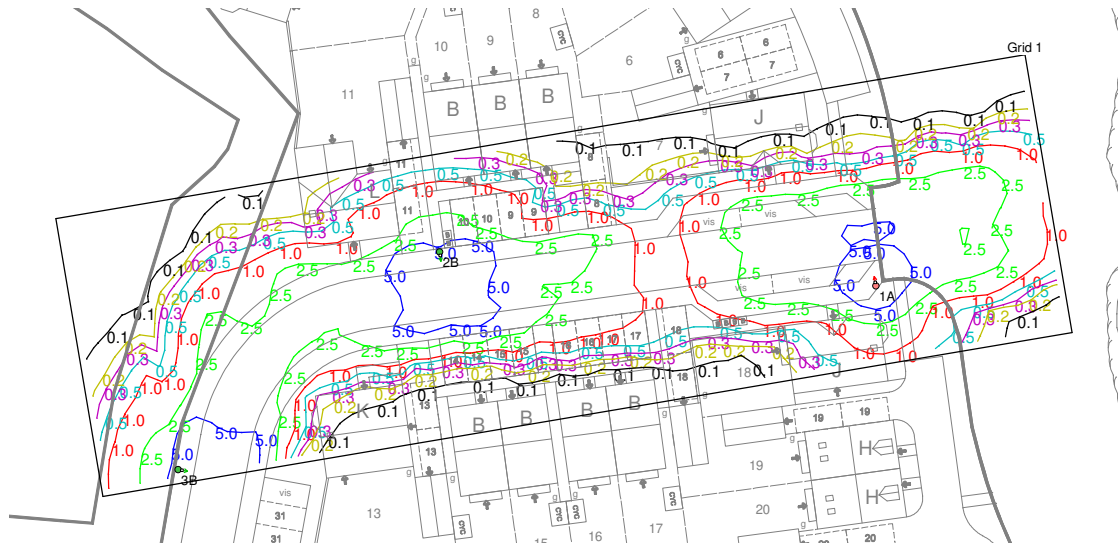
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	518638.95	134163.78	6.00	98.00	0.00	0.00	0.40			
2	B	518592.51	134167.42	6.00	277.00	0.00	0.00	0.40			
3	B	518564.65	134144.22	6.00	350.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
4	B	518560.45	134067.24	6.00	0.00	0.00	0.00	0.40			
5	B	518560.63	134105.65	6.00	0.00	0.00	0.00	0.40			
6	B	518594.49	134104.26	6.00	262.00	0.00	0.00	0.40			
7	B	518638.77	134100.86	6.00	269.00	0.00	0.00	0.40			
8	B	518646.07	134070.94	6.00	348.00	0.00	0.00	0.40			
9	B	518630.96	134039.83	6.00	88.00	0.00	0.00	0.40			
10	B	518589.78	134042.46	6.00	83.00	0.00	0.00	0.40			
11	B	518566.96	134026.78	6.00	166.00	0.00	0.00	0.40			
12	B	518539.86	134059.36	6.00	256.00	0.00	0.00	0.40			
13	C	518508.29	134063.11	6.00	355.00	0.00	0.00	0.40			
14	C	518559.26	133997.24	6.00	83.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1

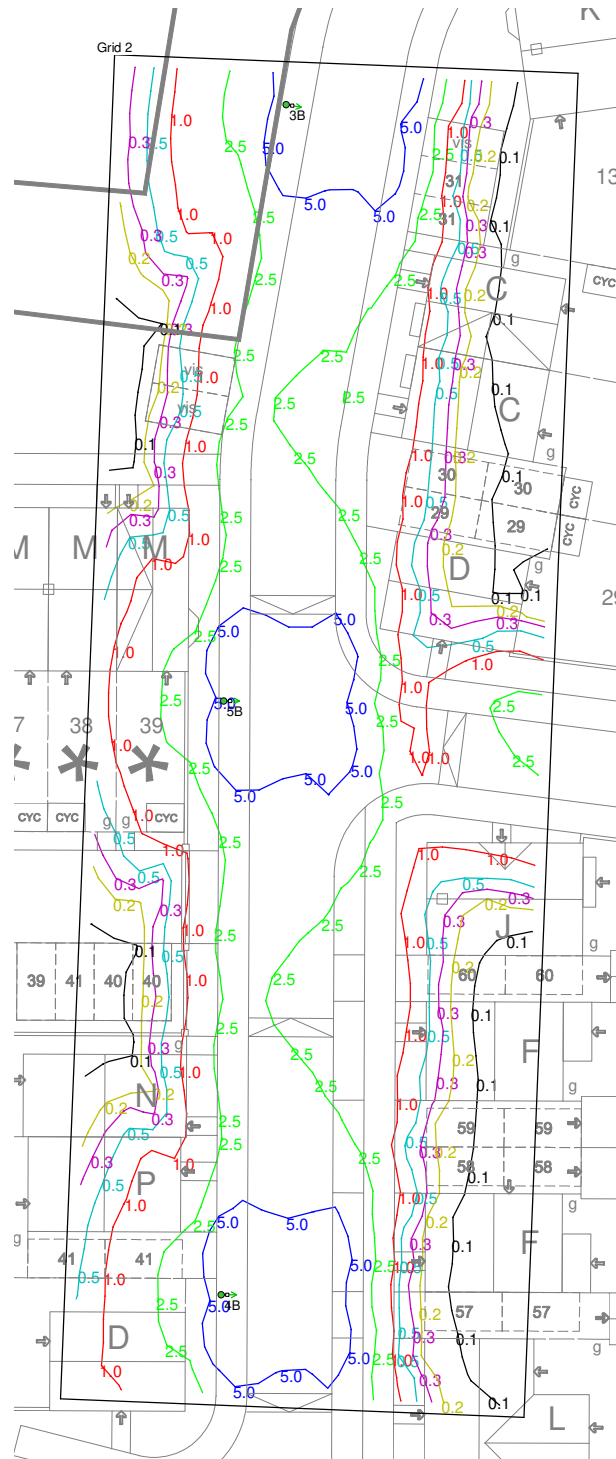


Results

Eav	3.67
Emin	0.72
Emax	13.28
Emin/Emax	0.05
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 2

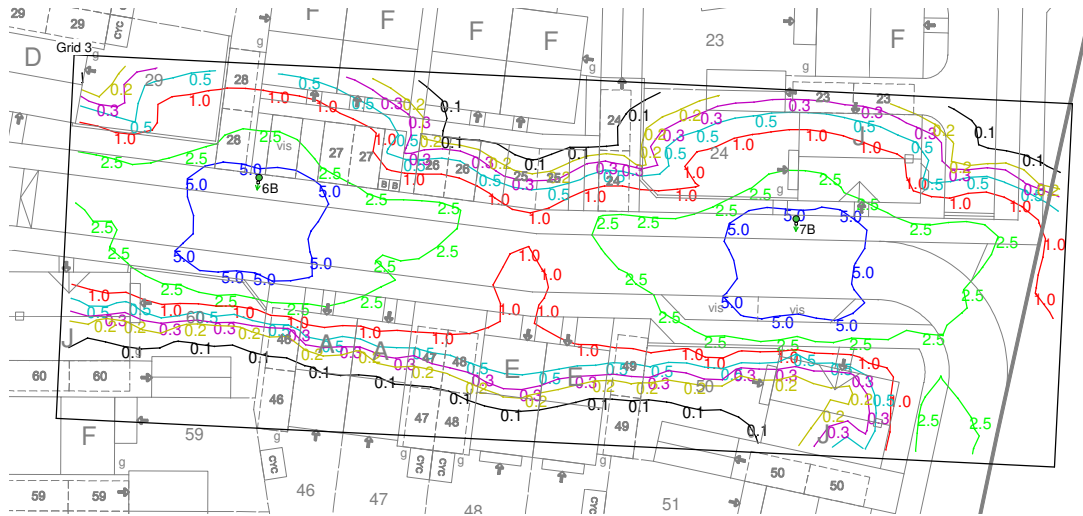


Results

Eav	4.05
Emin	0.86
Emax	13.56
Emin/Emax	0.06
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 3

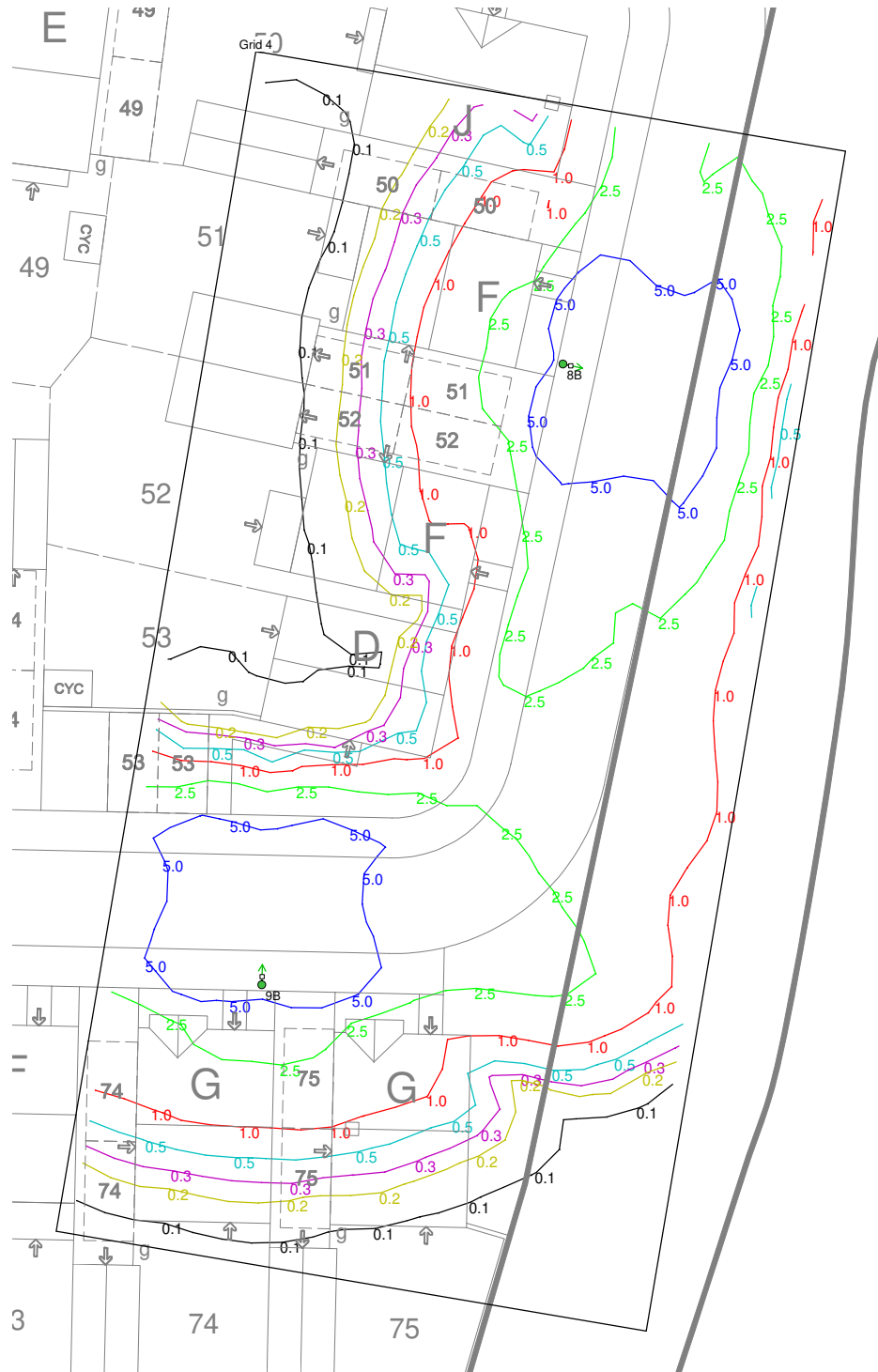


Results

Eav	3.85
Emin	0.81
Emax	11.98
Emin/Emax	0.07
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 4

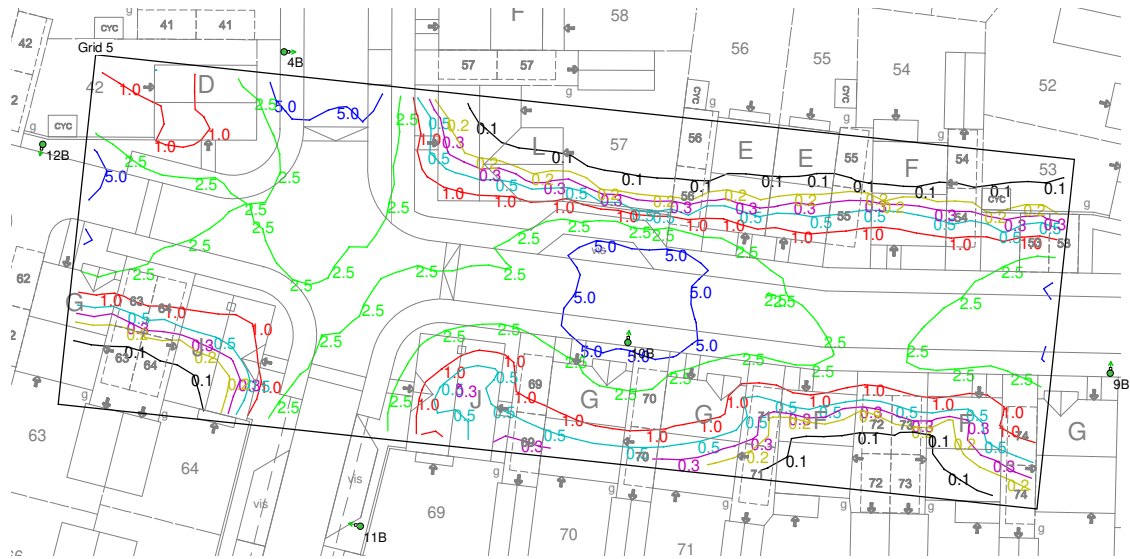


Results

Eav	4.83
Emin	1.59
Emax	12.86
Emin/Emax	0.12
Emin/Eav	0.33

Horizontal Illuminance (lux)

Grid 5

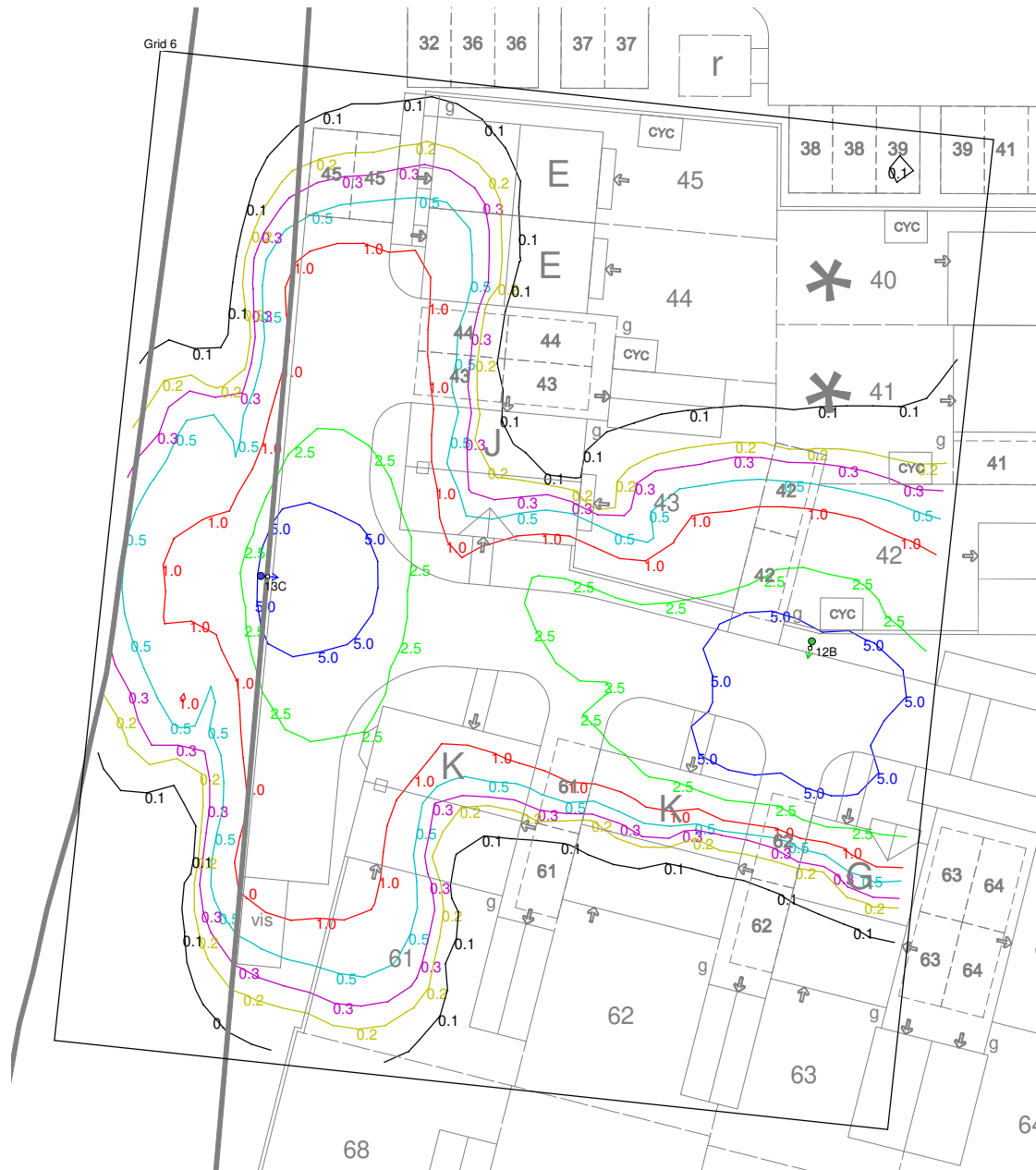


Results

Eav	3.44
Emin	1.20
Emax	12.18
Emin/Emax	0.10
Emin/Eav	0.35

Horizontal Illuminance (lux)

Grid 6



Results

Eav	3.97
Emin	0.79
Emax	13.10
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 7



Results

Eav	3.61
Emin	0.86
Emax	12.45
Emin/Emax	0.07
Emin/Eav	0.24