

DATE: 18 February 2026
DESIGNER: WB
PROJECT No: OP57710LSS12850 West Hoathly Road
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Urbis Schröder | Design


Designed to BS5489-1:2020
Road: Category P5
0.6lux minimum illuminance & 3-4.5lux average illuminance.
Parking: Table 4. Low traffic flow
5lux average illuminance & 25% Overall uniformity

Maintenance Factor calculated to BS5489, TS22012 & GN11
fLF = Luminous flux factor for 100,000hours - 100%
fS = Survival factor - 0.97% (representing 3% failures)
fLM = Mounting height: 6m or less, Cleaning frequency - 72
months, Environmental zone – E1/E2 - 0.92
fSM = Surface factor - 1 (Exterior Lighting only)
Overall fM = 0.89 (CLO N/A)

Outdoor Lighting Report

This design has been prepared in accordance with the HEA/HEMSA Guidance Note - CDM2015 Regulations, Issue 1.1 dated 09/04/15 - Procedure 2 for an outline design. The information in this report does not account for installation considerations, site conditions or provide any form of risk assessment. Urbis' design service is advisory only and it is the responsibility of the recipient of this information to verify that the design is suitable for the intended application. No account is taken for the blocking effect caused by buildings, trees etc. The calculation shown assumes that the whole area considered is in the same plane.

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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 - Road	67.00	24.00	220.00	211.00	1.50	1.50
2	Grid 2 - Vertical Buffer G...	213.21	85.88	52.00	6.00	1.00	1.00
3	Grid 3	175.82	187.34	11.31	24.26	1.41	1.43
4	Grid 4	202.89	171.28	10.96	22.75	1.37	1.42

Luminaires

Luminaire A Data



Supplier	Urbis
Type	AXIA 3.1 5266 Integrated lenses 8 OSLO N SQUARE GIANT@400mA W
Lamp(s)	8 OSLO N 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 OSLO N SQUARE GIANT 4 00mA WW 727 11W 429092 Integrated le...
Maintenance Factor	0.89
Imax70,80,90(cd/klm)	1142.4, 192.6, 0.0
No. in Project	12

Luminaire B Data



Supplier	Urbis
Type	AXIA 3.1 5266 Integrated lenses Rear louve rs 8 OSLO N SQUARE G
Lamp(s)	8 OSLO N SQUARE GIANT@400mA WW 7 27 230V 01-37-041
LampFlux(klm)/Colour	1.03 WW 2700K/70
File Name	AXIA 3.1 5266 8 OSLO N SQUARE GIANT 4 00mA WW 727 11W 457662 Integrated le...
Maintenance Factor	0.89
Imax70,80,90(cd/klm)	1216.3, 169.4, 0.0
No. in Project	1

Luminaire C Data



Supplier	Urbis
Type	AXIA 3.1 5267 Integrated lenses 16 OSLO N SQUARE GIANT@500mA
Lamp(s)	16 OSLO N SQUARE GIANT@500mA WW 727 230V 01-37-043
LampFlux(klm)/Colour	3.13 WW 2700K/70
File Name	AXIA 3.1 5267 16 OSLO N SQUARE GIANT 500mA WW 727 25.5W 429102 Integrated ...
Maintenance Factor	0.89
Imax70,80,90(cd/klm)	985.2, 145.1, 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	160.40	188.11	6.00	229.00	0.00	0.00	0.40			
2	A	177.73	162.34	6.00	57.00	0.00	0.00	0.40			
3	A	179.28	135.16	6.00	319.00	0.00	0.00	0.40			
4	A	226.53	147.76	6.00	229.00	0.00	0.00	0.40			
5	A	163.17	107.19	6.00	336.00	0.00	0.00	0.40			
6	A	126.20	117.17	6.00	243.00	0.00	0.00	0.40			
7	A	119.29	129.76	6.00	154.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
8	A	133.08	153.02	6.00	146.00	0.00	0.00	0.40			
9	A	148.51	169.21	6.00	125.00	0.00	0.00	0.40			
10	A	234.86	121.81	6.00	322.00	0.00	0.00	0.40			
11	B	218.90	94.86	6.00	130.00	0.00	0.00	0.40			
12	A	196.09	158.76	6.00	226.00	0.00	0.00	0.40			
13	A	149.59	105.19	6.00	243.00	0.00	0.00	0.40			
14	C	191.60	187.21	6.00	136.00	0.00	0.00	0.40			
15	C	208.98	177.00	6.00	312.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1 - Road

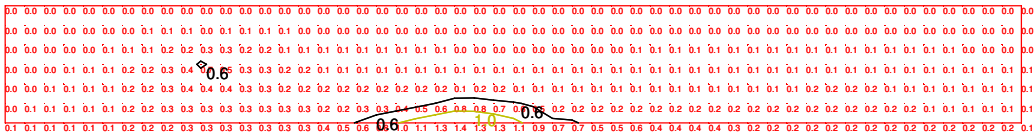


Results

Eav	3.56
Emin	0.67
Emax	12.26
Emin/Emax	0.06
Emin/Eav	0.19

Illuminance (lux)

Grid 2 - Vertical Buffer Grid

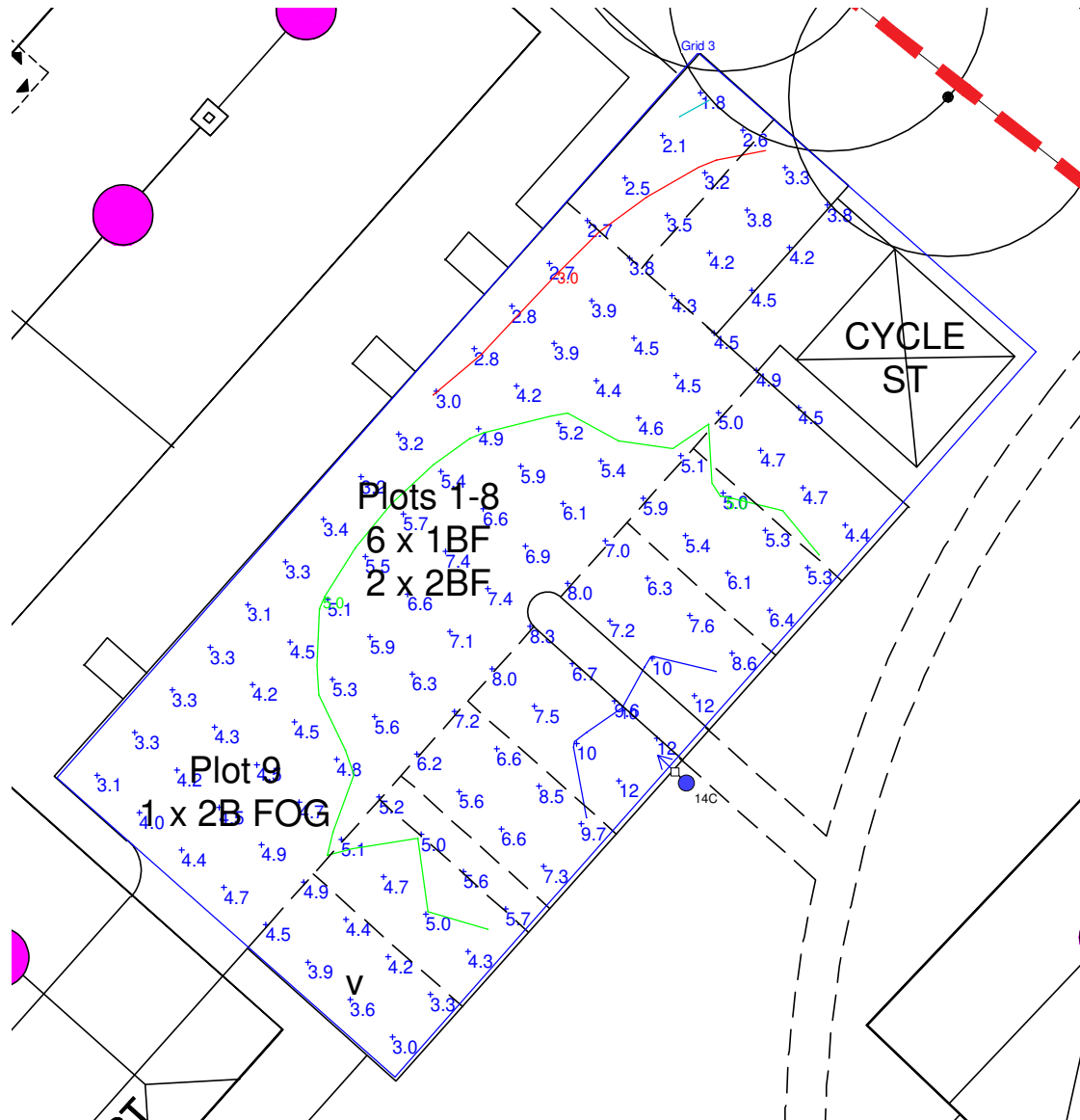


Results

Eav	0.16
Emin	0.00
Emax	1.36
Emin/Emax	0.00
Emin/Eav	0.00

Horizontal Illuminance (lux)

Grid 3

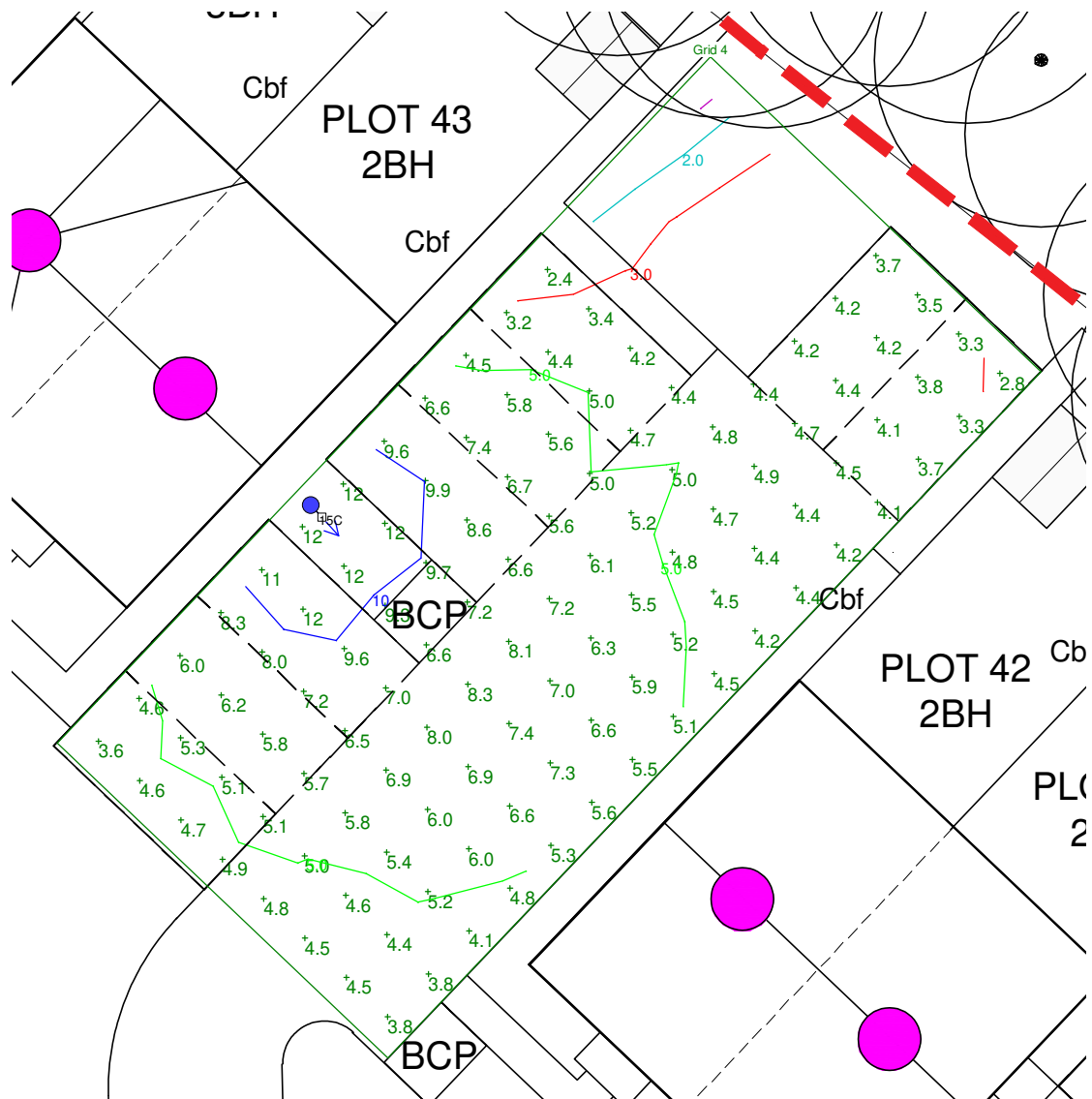


Results

Eav	5.26
Emin	1.84
Emax	11.93
Emin/Emax	0.15
Emin/Eav	0.35

Horizontal Illuminance (lux)

Grid 4

**Results**

Eav	5.82
Emin	2.39
Emax	11.96
Emin/Emax	0.20
Emin/Eav	0.41