

DATE: 29 January 2026
DESIGNER: WB
PROJECT No: OP45811LSS12278 Station Road
PROJECT NAME: OP45811LSS12278 Station Road

Urbis Schröder | Design


Designed to BS54891-:2020,
- Roads - Category P5.
0.6lux minimum illuminance & between 3-4.5lux average illuminance.
- Parking - Table 4, Medium Car Park in Rural Location
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 - Access Road	163.00	134.00	201.00	164.00	1.50	1.49
2	Grid 2 - Minor Road	178.00	187.00	131.00	105.00	1.49	1.50
3	Grid 3 - Minor Road	185.00	148.00	56.00	26.00	1.47	1.44
4	Grid 4 - School Parking	221.00	92.00	100.00	46.00	1.49	1.48

Luminaires

Luminaire A Data



Supplier	Urbis
Type	AXIA 3.1 5266 Integrated lenses 8 OSLO SQUARE GIANT@400mA W
Lamp(s)	8 OSLO 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 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	5

Luminaire B Data



Supplier	Urbis
Type	AXIA 3.1 5266 Integrated lenses 8 OSLO SQUARE GIANT@400mA W
Lamp(s)	8 OSLO 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 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	10

Luminaire C Data



Supplier	Urbis
Type	AXIA 3.1 5384 Integrated lenses 8 OSLO SQUARE GIANT@700mA W
Lamp(s)	8 OSLO SQUARE GIANT@700mA WW 7 27 230V 01-37-041
LampFlux(klm)/Colour	2.08 WW 2700K/70
File Name	AXIA 3.1 5384 8 OSLO SQUARE GIANT 7 00mA WW 727 19.4W 487502 Integrated I...
Maintenance Factor	0.89
Imax70,80,90(cd/klm)	1031.6, 225.6, 0.0
No. in Project	4

Luminaire D Data



Supplier	Urbis
Type	AXIA 3.1 5384 Integrated lenses Back Light 8 OSLO SQUARE GIA
Lamp(s)	8 OSLO SQUARE GIANT@850mA WW 7 27 230V 03-58-802
LampFlux(klm)/Colour	1.68 WW 2700K/70
File Name	AXIA 3.1 5384 8 OSLO SQUARE GIANT 8 50mA WW 727 24.2W 487532 Integrated I...
Maintenance Factor	0.89
Imax70,80,90(cd/klm)	1399.9, 303.5, 0.0
No. in Project	4

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	307.24	221.30	6.00	320.00	0.00	0.00	0.40			
2	A	281.54	199.76	6.00	294.00	0.00	0.00	0.40			
3	A	252.41	182.37	6.00	328.00	0.00	0.00	0.40			
4	A	248.03	140.73	6.00	173.00	0.00	0.00	0.40			
5	A	231.29	165.20	6.00	238.00	0.00	0.00	0.40			
6	B	205.99	155.14	6.00	2.00	0.00	0.00	0.40			
7	B	199.58	170.95	6.00	267.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
9	B	261.08	256.44	6.00	230.00	0.00	0.00	0.40			
10	B	222.30	280.76	6.00	241.00	0.00	0.00	0.40			
11	B	231.36	241.44	6.00	148.00	0.00	0.00	0.40			
12	B	197.55	229.83	6.00	63.00	0.00	0.00	0.40			
13	B	221.13	214.23	6.00	56.00	0.00	0.00	0.40			
14	B	249.04	203.53	6.00	225.00	0.00	0.00	0.40			
15	B	287.90	234.62	6.00	229.00	0.00	0.00	0.40			
17	B	319.94	209.25	6.00	110.00	0.00	0.00	0.40			
18	C	264.24	108.31	6.00	87.00	0.00	0.00	0.40			
19	C	295.96	105.16	6.00	86.00	0.00	0.00	0.40			
20	C	264.24	108.31	6.00	265.00	0.00	0.00	0.40			
21	C	295.94	105.12	6.00	264.00	0.00	0.00	0.40			
22	D	240.10	117.39	6.00	180.00	0.00	0.00	0.40			
23	D	251.96	125.61	6.00	245.00	0.00	0.00	0.40			
24	D	283.33	122.94	6.00	267.00	0.00	0.00	0.40			
25	D	315.90	109.72	6.00	177.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1 - Access Road



Results

Eav	3.13
Emin	0.65
E _{max}	10.37
E _{min} /E _{max}	0.06
E _{min} /E _{av}	0.21

Horizontal Illuminance (lux)

Grid 2 - Minor Road

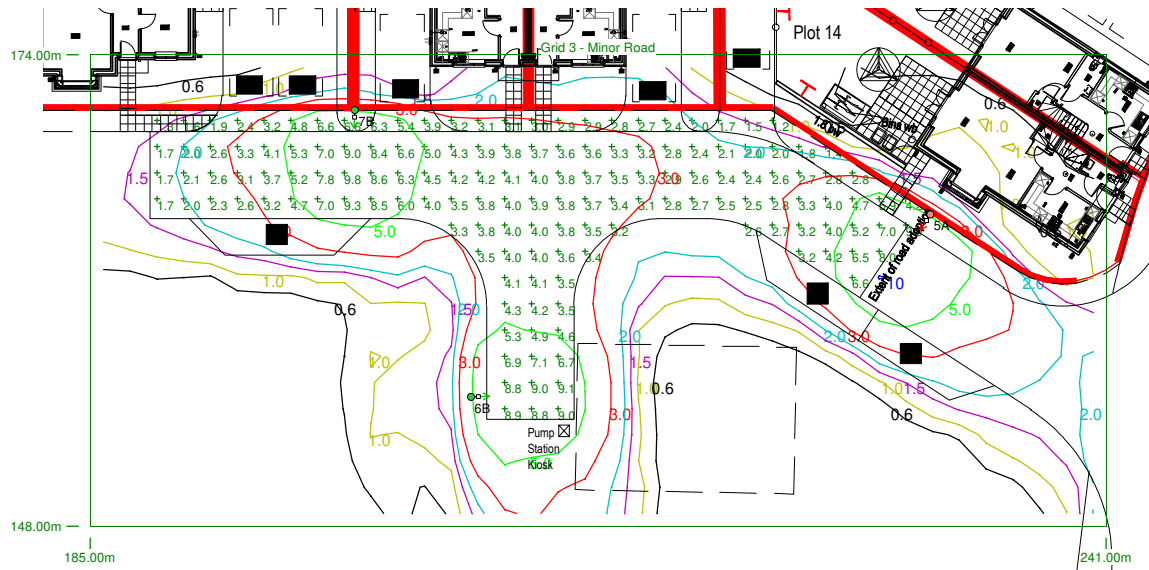


Results

Eav	3.03
Emin	0.66
Emax	11.33
Emin/Emax	0.06
Emin/Eav	0.22

Horizontal Illuminance (lux)

Grid 3 - Minor Road

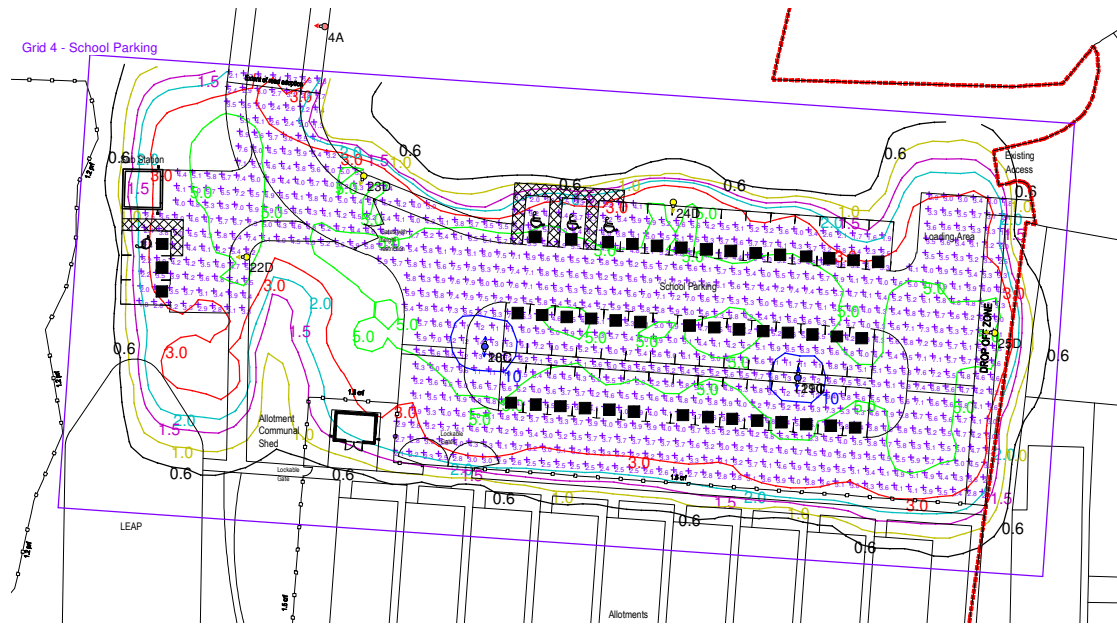


Results

Eav	4.17
Emin	1.23
E _{max}	9.79
E _{min} /E _{max}	0.13
E _{min} /E _{av}	0.29

Horizontal Illuminance (lux)

Grid 4 - School Parking



Results

Eav	5.00
Emin	1.26
Emax	13.80
Emin/Emax	0.09
Emin/Eav	0.25