DATE: **2 September 2026**

DESIGNER: **WB**

PROJECT No: **OP60661LSS23038 Deerpark Development, Killarney**

PROJECT NAME: **OP60661LSS23038 Deerpark Development, Killarney**

Designed to BS5489

- Spine Road: Category, P3
1.5lux minimum illuminance & between 7.50-11.25lux average illuminance

- Minor Road: Category, P4
1lux minimum illuminance & between 5-7.5lux average illuminance

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 - Minor Roads - P4	497101.00	591097.52	186.00	334.34	1.50	1.50
2	Grid 2 - Pine Road - P3	497183.00	591113.00	28.18	182.81	1.48	1.50
3	Grid 3 - Parking	497188.36	591329.31	24.91	16.18	1.47	1.47

Luminaires

Luminaire A Data

Supplier	Schreder
Type	AXIA 3.1 5296 Integrated lenses Rear louvers 16 OSLON SQUARE
Lamp(s)	16 OSLON SQUARE GIANT@160mA WW 727 230V 1x04-16-057 - DRIVER_
LampFlux(klm)/Colour	0.89 2700K/70
File Name	AXIA 3.1 5296 16 OSLON SQUARE GIANT Drv 160mA WW 727 9W 457602 Integrate...
Maintenance Factor	0.81
Imax70,80,90(cd/klm)	1285.9, 28.2, 0.0
No. in Project	3

Luminaire B Data

Supplier	Schreder
Type	AXIA 3.1 5267 Integrated lenses Rear louvers 16 OSLON SQUARE
Lamp(s)	16 OSLON SQUARE GIANT@550mA WW 727 230V 1x01-11-814 - DRIVER_
LampFlux(klm)/Colour	2.54 2700K/70
File Name	AXIA 3.1 5267 16 OSLON SQUARE GIANT Drv 550mA WW 727 28W 457672 Integrat...
Maintenance Factor	0.81
Imax70,80,90(cd/klm)	1281.8, 174.5, 0.0
No. in Project	9

Luminaire C Data

Supplier	Schreder
Type	AXIA 3.1 5266 Integrated lenses Rear louvers 16 OSLON SQUARE
Lamp(s)	16 OSLON SQUARE GIANT@380mA WW 727 230V 1x04-16-057 - DRIVER_
LampFlux(klm)/Colour	2.04 2700K/70
File Name	AXIA 3.1 5266 16 OSLON SQUARE GIANT Drv 380mA WW 727 19W 457662 Integrat...
Maintenance Factor	0.81
Imax70,80,90(cd/klm)	1216.3, 169.4, 0.0
No. in Project	25

Luminaire E Data

Supplier	Schreder
Type	AXIA 3.2 5267 Integrated lenses Rear louvers 32 OSLON SQUARE
Lamp(s)	32 OSLON SQUARE GIANT@720mA WW 727 230V 1x02-58-000 - DRIVER_
LampFlux(klm)/Colour	6.81 2700K/70
File Name	AXIA 3.2 5267 32 OSLON SQUARE GIANT Drv 720mA WW 727 71W 478662 Integrat...
Maintenance Factor	0.89
Imax70,80,90(cd/klm)	1154.2, 141.4, 0.0
No. in Project	6

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	B	497160.70	591120.28	6.00	196.00	0.00	0.00	0.50			
2	C	497152.76	591143.64	6.00	180.00	0.00	0.00	0.50			
3	C	497156.31	591180.19	6.00	170.00	0.00	0.00	0.50			
4	C	497161.92	591162.06	6.00	254.00	0.00	0.00	0.50			
5	E	497207.74	591176.35	8.00	343.00	0.00	0.00	0.50			
6	E	497190.41	591118.91	8.00	345.00	0.00	0.00	0.50			
7	C	497191.11	591155.45	6.00	254.00	0.00	0.00	0.50			
8	C	497161.84	591209.92	6.00	171.00	0.00	0.00	0.50			

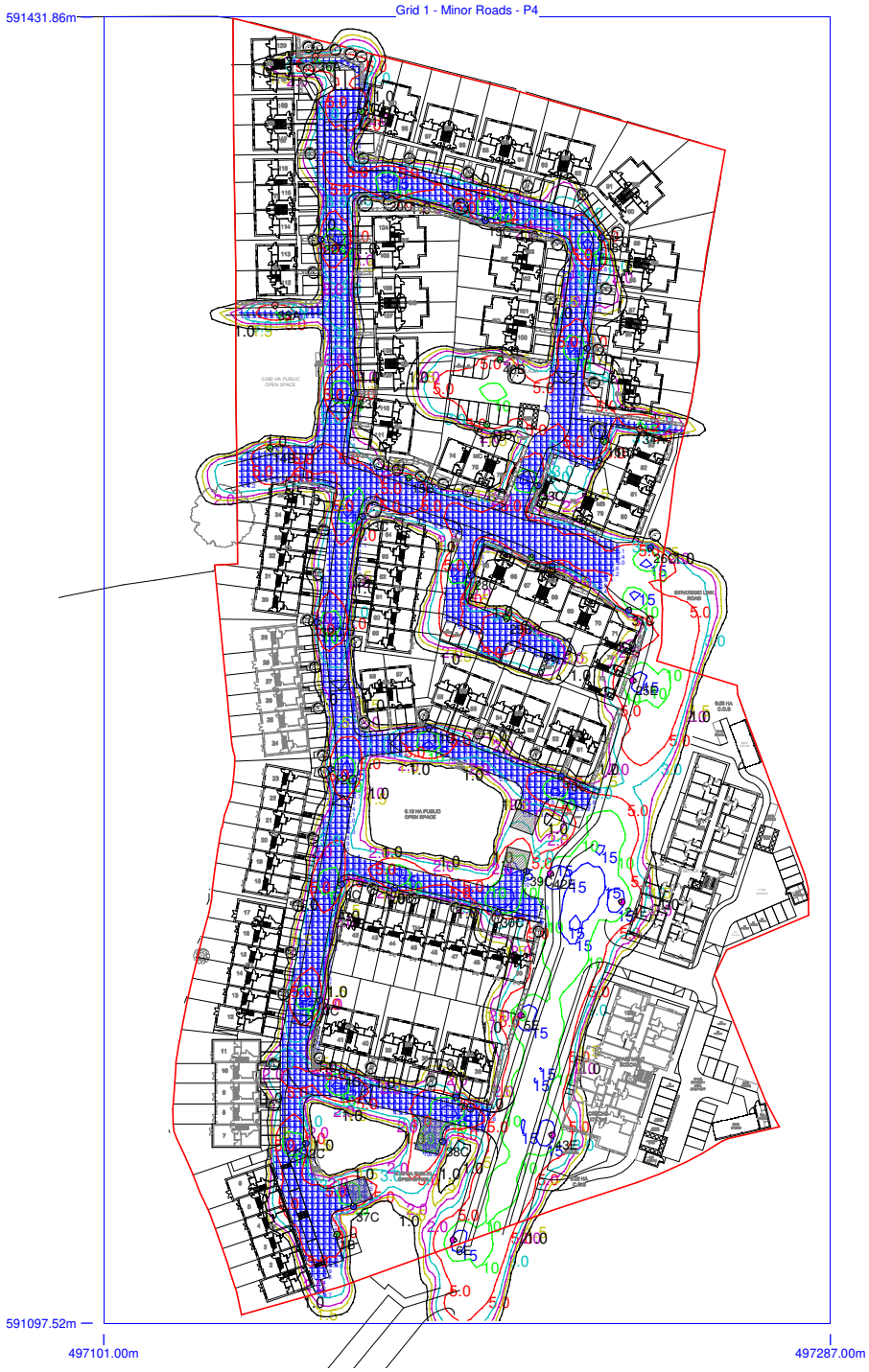
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Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
9	C	497175.44	591208.84	6.00	77.00	0.00	0.00	0.50			
10	C	497218.00	591237.57	6.00	247.00	0.00	0.00	0.50			
11	C	497184.19	591249.90	6.00	267.00	0.00	0.00	0.50			
12	C	497159.09	591239.35	6.00	2.00	0.00	0.00	0.50			
13	C	497167.21	591304.08	6.00	162.00	0.00	0.00	0.50			
14	B	497143.60	591321.59	6.00	280.00	0.00	0.00	0.50			
15	B	497179.08	591313.94	6.00	251.00	0.00	0.00	0.50			
16	B	497229.01	591323.28	6.00	163.00	0.00	0.00	0.50			
17	C	497224.71	591347.07	6.00	175.00	0.00	0.00	0.50			
18	C	497228.38	591375.42	6.00	203.00	0.00	0.00	0.50			
19	C	497198.60	591379.67	6.00	76.00	0.00	0.00	0.50			
20	C	497173.32	591386.09	6.00	85.00	0.00	0.00	0.50			
21	B	497166.95	591407.68	6.00	163.00	0.00	0.00	0.50			
22	C	497156.50	591374.93	6.00	359.00	0.00	0.00	0.50			
23	C	497165.22	591335.59	6.00	175.00	0.00	0.00	0.50			
24	E	497233.57	591205.38	8.00	165.00	0.00	0.00	0.50			
25	E	497236.36	591262.08	8.00	344.00	0.00	0.00	0.50			
26	C	497240.89	591296.04	6.00	251.00	0.00	0.00	0.50			
27	B	497210.37	591293.51	6.00	72.00	0.00	0.00	0.50			
28	C	497195.06	591289.01	6.00	167.00	0.00	0.00	0.50			
29	B	497204.10	591277.94	6.00	250.00	0.00	0.00	0.50			
30	C	497201.84	591202.69	6.00	75.00	0.00	0.00	0.50			
31	C	497235.27	591279.96	6.00	64.00	0.00	0.00	0.50			
32	C	497155.62	591276.99	6.00	358.00	0.00	0.00	0.50			
33	C	497212.12	591311.91	6.00	158.00	0.00	0.00	0.50			
34	A	497238.13	591326.38	6.00	81.00	0.00	0.00	0.50			
35	A	497144.80	591358.13	6.00	270.00	0.00	0.00	0.50			
36	A	497155.23	591421.80	6.00	271.00	0.00	0.00	0.50			
37	C	497164.86	591127.41	6.00	108.00	0.00	0.00	0.50			
38	C	497187.77	591144.03	6.00	168.00	0.00	0.00	0.50			
39	C	497209.24	591213.24	6.00	167.00	0.00	0.00	0.50			
40	B	497202.38	591344.24	6.00	259.00	0.00	0.00	0.50			
41	B	497199.01	591327.53	6.00	82.00	0.00	0.00	0.50			
42	E	497215.25	591212.65	8.00	334.00	0.00	0.00	0.50			
43	E	497215.78	591145.72	8.00	165.00	0.00	0.00	0.50			

Horizontal Illuminance (lux)

Grid 1 - Minor Roads - P4



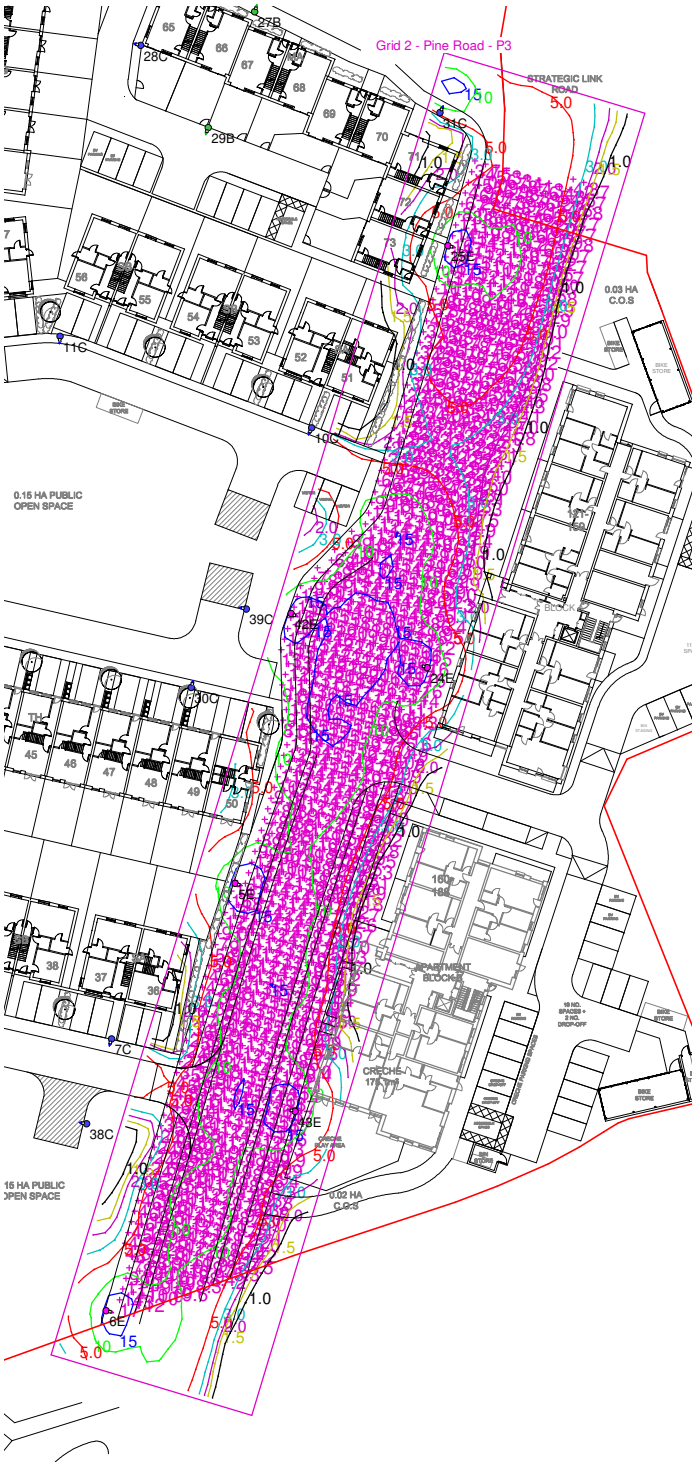
Results

Eav	6.00
Emin	1.07
Emax	21.50
Emin/Emax	0.05
Emin/Eav	0.18

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Horizontal Illuminance (lux)

Grid 2 - Pine Road - P3



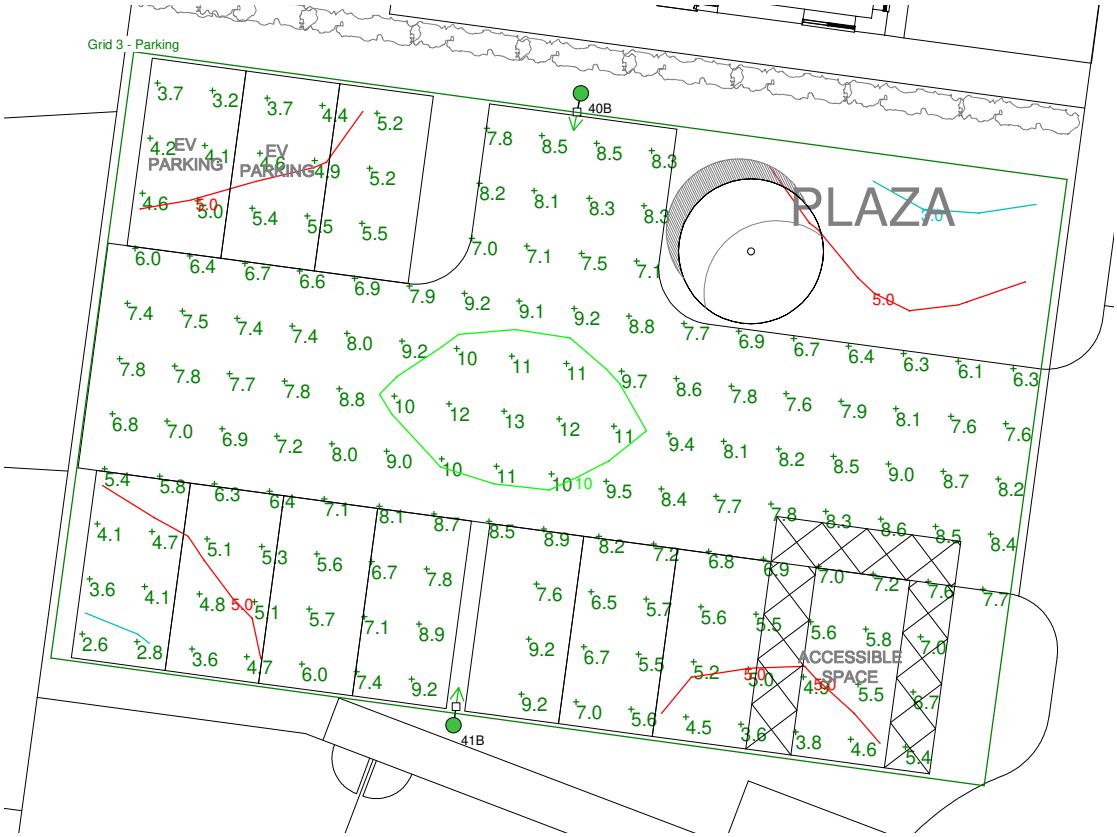
Results

Eav	9.52
Emin	1.60
Emax	21.22
Emin/Emax	0.08
Emin/Eav	0.17

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Horizontal Illuminance (lux)

Grid 3 - Parking



Results

Eav	7.09
Emin	2.59
Emax	13.13
Emin/Emax	0.20
Emin/Eav	0.37

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