

DATE: 13/06/2024
DESIGNER: James Duffin BA (Hons) IEng MILP
PROJECT No: EVO20024963-AC-002-B
PROJECT NAME: Lower Acre Private Footpaths & Parking Areas

ENERVEO

Lower Acre Private Footpaths & Parking Areas
Parcel 1.1 South

Footpaths Lighting Class - P5
Car Parks - Small Carpark (5 lux, 25% Uo)

Lantern - Urbis Schreder Axia 3.1
Colour Temperature - 2700K
Maintenance Factor - 0.85

Outdoor Lighting Report

PREPARED BY: James Duffin BA (Hons) IEng MILP
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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 - Parking Area Plot...	448912.93	116171.16	12.00	108.00	0.50	0.50
2	Grid 2 - Cyclepath - P5	448932.67	116149.41	120.00	21.00	1.50	1.00
3	Grid 3 - Vertical Plot 186...	448915.08	116174.83	11.83	5.00	1.48	1.25
4	Grid 4 - Vertical Plot 192	448934.59	116207.34	6.01	5.00	1.50	1.25
5	Grid 5 - Vertical Plot 193	448937.13	116214.56	5.83	5.00	1.46	1.25
6	Grid 6 - Vertical Plots 19...	448954.02	116241.02	11.87	5.00	1.48	1.25
7	Grid 7 - Parking Plots162-...	448850.10	116141.19	48.00	60.00	1.50	1.50
8	Grid 8 - Vertical Plot 160...	448880.27	116145.67	7.21	5.00	1.44	1.25
9	Grid 9 - Vertical Plot 160	448880.24	116152.96	12.70	5.00	1.41	1.25
10	Grid 10 - Vertical Block B	448855.98	116152.81	18.59	5.00	1.43	1.25
11	Grid 11 - Parking 126-155	448846.35	116078.03	54.00	57.00	1.50	1.50
12	Grid 12 - Vertical Block A...	448865.61	116122.11	8.21	5.00	1.37	1.25
13	Grid 13 - Vertical Block A...	448856.85	116122.16	8.91	5.00	1.48	1.25
14	Grid 14 - Vertical Block A...	448873.23	116092.69	7.13	5.00	1.43	1.25
15	Grid 15 - Vertical Block A...	448856.84	116106.62	15.66	5.00	1.42	1.25
16	Grid 16 - Parking Plots 10...	448912.58	116120.19	36.00	24.00	1.50	1.50
17	Grid 17 - Vertical Block A...	448902.74	116084.19	15.39	5.00	1.40	1.25
18	Grid 18 - Parking Plots 96...	448931.92	116092.20	30.47	23.32	1.45	1.46
19	Grid 19 - Vertical Block A...	448908.56	116102.89	14.17	5.00	1.42	1.25
20	Grid 20 - Vertical Plot 99	448945.36	116100.08	8.36	5.00	1.39	1.25

Luminaire

Luminaire A Data

Supplier	Urbis Schreder
Type	AXIA 3.1 5267 Integrated lenses Rear louvers 16 OSLO SQUARE
Lamp(s)	16 OSLO SQUARE GIANT@480mA WW 727 230V 01-37-041
LampFlux(klm)/Colour	3.45 WW 2700K/70
File Name	AXIA 3.1 5267 16 OSLO SQUARE GIANT T 480mA WW 727 25.5W 457672 Integrated ...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	812.8, 110.7, 0.0
No. in Project	18

Luminaire B Data

Supplier	Urbis Schreder
Type	AXIA 3.1 5296 Integrated lenses Rear louvers 8 OSLO SQUARE G
Lamp(s)	8 OSLO SQUARE GIANT@300mA WW 727 230V 01-37-041
LampFlux(klm)/Colour	1.13 WW 2700K/70
File Name	AXIA 3.1 5296 8 OSLO SQUARE GIANT 300mA WW 727 8.4W 457602 Integrated ...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	893.6, 19.6, 0.0
No. in Project	20

Luminaire C Data

Supplier	Urbis Schreder
Type	AXIA 3.1 5295 Integrated lenses Rear louvers 8 OSLO SQUARE G
Lamp(s)	8 OSLO SQUARE GIANT@300mA WW 727 230V 01-37-041
LampFlux(klm)/Colour	1.13 WW 2700K/70
File Name	AXIA 3.1 5295 8 OSLO SQUARE GIANT 300mA WW 727 8.4W 457592 Integrated ...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	567.7, 8.0, 0.0
No. in Project	9

Luminaire D Data

Supplier	Urbis Schreder
Type	AXIA 3.1 5267 Integrated lenses Rear louvers 8 OSLO SQUARE G
Lamp(s)	8 OSLO SQUARE GIANT@400mA WW 727 230V 01-37-041
LampFlux(klm)/Colour	1.47 WW 2700K/70
File Name	AXIA 3.1 5267 8 OSLO SQUARE GIANT 400mA WW 727 11W 457672 Integrated I...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	812.8, 110.7, 0.0
No. in Project	20

Luminaires**Luminaire E Data**

Supplier	Urbis Schreder
Type	AXIA 3.1 5267 Integrated lenses Rear louvers 8 OSLON SQUARE G
Lamp(s)	8 OSLON SQUARE GIANT@600mA WW 727 230V 01-37-041
LampFlux(klm)/Colour	2.09 WW 2700K/70
File Name	AXIA 3.1 5267 8 OSLON SQUARE GIANT 600mA WW 727 16.6W 457672 Integrated...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	812.8, 110.7, 0.0
No. in Project	6

Luminaire F Data

Supplier	Urbis Schreder
Type	AXIA 3.1 5267 Integrated lenses 8 OSLON SQUARE GIANT@850mA W
Lamp(s)	8 OSLON SQUARE GIANT@850mA WW 727 230V 00-53-394
LampFlux(klm)/Colour	2.76 WW 2700K/70
File Name	AXIA 3.1 5267 8 OSLON SQUARE GIANT 850mA WW 727 22.8W 429102 Integrated...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	862.5, 127.0, 0.0
No. in Project	1

Luminaire G Data

Supplier	Urbis Schreder
Type	AXIA 3.1 5267 Integrated lenses 8 OSLON SQUARE GIANT@600mA W
Lamp(s)	8 OSLON SQUARE GIANT@600mA WW 727 230V 01-37-041
LampFlux(klm)/Colour	2.09 WW 2700K/70
File Name	AXIA 3.1 5267 8 OSLON SQUARE GIANT 600mA WW 727 16.6W 429102 Integrated...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	862.5, 127.0, 0.0
No. in Project	2

Luminaire X Data

Supplier	Urbis Schreder
Type	AXIA 3.1 5295 Integrated lenses Rear louvers 8 OSLON SQUARE G
Lamp(s)	8 OSLON SQUARE GIANT@850mA WW 730 230V 00-53-394
LampFlux(klm)/Colour	1.94 WW 3000K/70
File Name	AXIA 3.1 5295 8 OSLON SQUARE GIANT 850mA WW 730 22.8W 457592 Integrated...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	842.8, 11.9, 0.0
No. in Project	15

Luminaire Y Data

Supplier	Urbis Schreder
Type	AXIA 3.1 5295 Integrated lenses Rear louvers 16 OSLON SQUARE
Lamp(s)	16 OSLON SQUARE GIANT@300mA WW 730 230V 01-37-041
LampFlux(klm)/Colour	1.59 WW 3000K/70
File Name	AXIA 3.1 5295 16 OSLON SQUARE GIANT 300mA WW 730 16.1W 457592 Integrat...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	842.8, 11.9, 0.0
No. in Project	21

Luminaire Z Data

Supplier	Urbis Schreder
Type	AXIA 3.1 5295 Integrated lenses Rear louvers 16 OSLON SQUARE
Lamp(s)	16 OSLON SQUARE GIANT@200mA WW 730 230V 01-37-041
LampFlux(klm)/Colour	1.09 WW 3000K/70
File Name	AXIA 3.1 5295 16 OSLON SQUARE GIANT 200mA WW 730 11.2W 457592 Integrat...
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	842.8, 11.9, 0.0
No. in Project	13

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
CP1	E	448830.76	116460.16	6.00	70.00	0.00	0.00	0.40			
CP10	E	448907.99	116388.48	6.00	248.00	0.00	0.00	0.40			
CP11	E	448900.45	116372.70	6.00	66.00	0.00	0.00	0.40			
CP12	G	448968.66	116416.27	6.00	247.00	0.00	0.00	0.40			
CP13	G	448958.33	116420.71	6.00	247.00	0.00	0.00	0.40			
CP14	A	449003.00	116404.34	6.00	245.00	0.00	0.00	0.40			
CP15	C	449014.53	116397.25	6.00	158.00	0.00	0.00	0.40			
CP16	A	449031.48	116416.25	6.00	246.00	0.00	0.00	0.40			
CP17	C	448984.89	116378.49	6.00	66.00	0.00	0.00	0.40			
CP18	A	449052.78	116407.92	6.00	246.00	0.00	0.00	0.40			
CP19	C	449001.67	116371.15	6.00	66.00	0.00	0.00	0.40			
CP20	C	449007.12	116382.75	6.00	340.00	0.00	0.00	0.40			
CP21	A	449024.83	116377.08	6.00	158.00	0.00	0.00	0.40			
CP2	E	448824.49	116476.60	6.00	248.00	0.00	0.00	0.40			
CP22	D	448999.41	116365.36	6.00	337.00	0.00	0.00	0.40			
CP23	A	449014.53	116353.70	6.00	159.00	0.00	0.00	0.40			
CP24	A	449022.59	116341.67	6.00	247.00	0.00	0.00	0.40			
CP25	C	449005.38	116335.00	6.00	68.00	0.00	0.00	0.40			
CP26	D	448996.61	116287.94	6.00	63.00	0.00	0.00	0.40			
CP27	D	449001.31	116303.35	6.00	242.00	0.00	0.00	0.40			
CP28	A	448983.64	116308.96	6.00	22.00	0.00	0.00	0.40			
CP29	D	448997.54	116314.04	6.00	156.00	0.00	0.00	0.40			
CP30	D	448983.49	116326.03	6.00	340.00	0.00	0.00	0.40			
CP31	B	449003.03	116326.90	6.00	158.00	0.00	0.00	0.40			
CP3	E	448818.94	116459.57	6.00	65.00	0.00	0.00	0.40			
CP32	A	449124.56	116352.96	6.00	150.00	0.00	0.00	0.40			
CP33	D	449101.53	116345.97	6.00	324.00	0.00	0.00	0.40			
CP34	A	449109.62	116328.00	6.00	149.00	0.00	0.00	0.40			
CP35	A	449021.19	116189.92	6.00	152.00	0.00	0.00	0.40			
CP36	A	449009.35	116206.00	6.00	330.00	0.00	0.00	0.40			
CP37	D	448934.94	116115.73	6.00	287.00	0.00	0.00	0.40			
CP38	E	448949.73	116110.40	6.00	197.00	0.00	0.00	0.40			
CP39	D	448938.72	116099.35	6.00	107.00	0.00	0.00	0.40			
CP40	D	448920.63	116088.74	6.00	107.00	0.00	0.00	0.40			
CP41	D	448908.21	116091.28	6.00	12.00	0.00	0.00	0.40			
CP4	D	448796.65	116475.98	6.00	293.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
CP42	A	448922.77	116107.55	6.00	163.00	0.00	0.00	0.40			
CP43	D	448866.76	116127.48	6.00	0.00	0.00	0.00	0.40			
CP44	D	448878.49	116129.76	6.00	269.00	0.00	0.00	0.40			
CP45	A	448897.23	116114.82	6.00	162.00	0.00	0.00	0.40			
CP46	A	448878.11	116112.22	6.00	341.00	0.00	0.00	0.40			
CP47	A	448893.12	116101.30	6.00	163.00	0.00	0.00	0.40			
CP48	D	448874.95	116102.52	6.00	254.00	0.00	0.00	0.40			
CP49	D	448857.16	116112.03	6.00	0.00	0.00	0.00	0.40			
CP51	A	448863.32	116191.23	6.00	349.00	0.00	0.00	0.40			
CP50	D	448876.13	116112.95	6.00	181.00	0.00	0.00	0.40			
CP52	A	448878.33	116173.56	6.00	169.00	0.00	0.00	0.40			
CP5	D	448807.19	116464.29	6.00	111.00	0.00	0.00	0.40			
CP53	D	448876.13	116164.97	6.00	272.00	0.00	0.00	0.40			
CP54	D	448887.15	116156.51	6.00	185.00	0.00	0.00	0.40			
CP55	D	448858.82	116160.53	6.00	0.00	0.00	0.00	0.40			
CP6	C	448878.90	116423.51	6.00	156.00	0.00	0.00	0.40			
CP7	A	448871.42	116437.81	6.00	338.00	0.00	0.00	0.40			
CP8	F	448924.04	116398.36	6.00	65.00	0.00	0.00	0.40			
CP9	B	448920.57	116376.42	6.00	245.00	0.00	0.00	0.40			
FP1	B	449139.57	116369.81	6.00	66.00	0.00	0.00	0.40			
FP10	B	448901.09	116418.21	6.00	152.00	0.00	0.00	0.40			
FP11	C	448880.37	116398.64	6.00	338.00	0.00	0.00	0.40			
FP12	C	448899.16	116392.74	6.00	161.00	0.00	0.00	0.40			
FP13	B	448880.33	116369.48	6.00	156.00	0.00	0.00	0.40			
FP14	B	448957.81	116245.73	6.00	331.00	0.00	0.00	0.40			
FP15	B	448938.45	116212.11	6.00	332.00	0.00	0.00	0.40			
FP16	B	448919.46	116178.94	6.00	338.00	0.00	0.00	0.40			
FP17	B	448975.60	116247.04	6.00	294.00	0.00	0.00	0.40			
FP18	B	448955.88	116222.29	6.00	151.00	0.00	0.00	0.40			
FP19	B	448937.42	116190.26	6.00	151.00	0.00	0.00	0.40			
FP2	B	449110.94	116381.89	6.00	67.00	0.00	0.00	0.40			
FP20	B	448922.71	116164.12	6.00	344.00	0.00	0.00	0.40			
FP21	B	448978.29	116351.69	6.00	247.00	0.00	0.00	0.40			
FP3	B	449081.51	116394.59	6.00	66.00	0.00	0.00	0.40			
FP4	B	449006.13	116426.01	6.00	67.00	0.00	0.00	0.40			
FP5	B	448972.71	116440.20	6.00	69.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
FP6	B	448840.42	116488.69	6.00	68.00	0.00	0.00	0.40			
FP7	B	448814.07	116500.20	6.00	67.00	0.00	0.00	0.40			
FP8	B	448794.21	116500.31	6.00	107.00	0.00	0.00	0.40			
FP9	C	448843.96	116444.75	6.00	157.00	0.00	0.00	0.40			
P1-PR1	Y	448931.20	116377.18	6.00	155.00	0.00	0.00	0.40			
P1-PR2	X	448909.15	116336.72	6.00	106.00	0.00	0.00	0.40			
P1-PR3	X	448838.58	116430.26	6.00	194.00	0.00	0.00	0.40			
P1-PR4	Z	448853.41	116415.97	6.00	66.00	0.00	0.00	0.40			
P1-R1	X	448948.59	116272.82	6.00	108.00	0.00	0.00	0.40			
P1-R2	Y	448897.48	116191.75	6.00	147.00	0.00	0.00	0.40			
P1-R3	Y	448937.04	116129.61	6.00	150.00	0.00	0.00	0.40			
P1-R4	Z	448952.11	116132.38	6.00	57.00	0.00	0.00	0.40			
P1-R5	Y	448975.32	116189.04	6.00	241.00	0.00	0.00	0.40			
P1-R6	Z	448993.14	116220.20	6.00	59.00	0.00	0.00	0.40			
P1-R7	Z	449017.11	116272.65	6.00	60.00	0.00	0.00	0.40			
P1-R8	Y	449041.85	116323.25	6.00	60.00	0.00	0.00	0.40			
P1-R9	Y	449065.82	116375.87	6.00	246.00	0.00	0.00	0.40			
P2-PR1	Y	448941.10	116401.05	6.00	155.00	0.00	0.00	0.40			
P2-PR2	X	448875.87	116337.71	6.00	68.00	0.00	0.00	0.40			
P2-PR3	Z	448825.26	116441.78	6.00	106.00	0.00	0.00	0.40			
P2-PR4	Y	448877.17	116413.41	6.00	246.00	0.00	0.00	0.40			
P2-R1	X	448918.33	116264.17	6.00	112.00	0.00	0.00	0.40			
P2-R2	Y	448901.71	116213.99	6.00	326.00	0.00	0.00	0.40			
P2-R3	Y	448923.61	116105.31	6.00	0.00	0.00	0.00	0.40			
P2-R4	Z	448973.79	116127.82	6.00	239.00	0.00	0.00	0.40			
P2-R5	Y	448997.60	116166.95	6.00	59.00	0.00	0.00	0.40			
P2-R6	Z	449012.46	116209.36	6.00	59.00	0.00	0.00	0.40			
P2-R7	X	449048.35	116262.36	6.00	241.00	0.00	0.00	0.40			
P2-R8	Y	449073.71	116312.34	6.00	239.00	0.00	0.00	0.40			
P2-R9	Y	449088.99	116366.03	6.00	244.00	0.00	0.00	0.40			
P3-PR2	Y	448856.52	116357.28	6.00	21.00	0.00	0.00	0.40			
P3-PR3	X	448837.71	116466.89	6.00	339.00	0.00	0.00	0.40			
P3-R1	X	448887.74	116251.12	6.00	328.00	0.00	0.00	0.40			
P3-R2	Y	448921.99	116229.19	6.00	151.00	0.00	0.00	0.40			
P3-R3	Z	448935.31	116087.93	6.00	198.00	0.00	0.00	0.40			
P3-R4	Z	448985.53	116113.21	6.00	60.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
P3-R5	Y	449014.53	116153.94	6.00	63.00	0.00	0.00	0.40			
P3-R6	Z	449026.36	116201.27	6.00	59.00	0.00	0.00	0.40			
P3-R7	X	449067.29	116250.20	6.00	241.00	0.00	0.00	0.40			
P3-R8	X	449098.13	116299.74	6.00	237.00	0.00	0.00	0.40			
P3-R9	X	449103.58	116350.95	6.00	66.00	0.00	0.00	0.40			
P4-PR2	Y	448847.71	116381.40	6.00	21.00	0.00	0.00	0.40			
P4-PR3	Y	448864.27	116480.07	6.00	248.00	0.00	0.00	0.40			
P4-R1	X	448875.85	116227.16	6.00	348.00	0.00	0.00	0.40			
P4-R2	Y	448931.74	116257.83	6.00	189.00	0.00	0.00	0.40			
P4-R6	Z	449049.08	116197.59	6.00	243.00	0.00	0.00	0.40			
P5-PR3	Y	448889.96	116469.25	6.00	247.00	0.00	0.00	0.40			
P5-R1	X	448878.43	116200.33	6.00	170.00	0.00	0.00	0.40			
P6-PR3	Y	448916.03	116459.24	6.00	248.00	0.00	0.00	0.40			
P6-R1	X	448878.71	116186.49	6.00	59.00	0.00	0.00	0.40			
P7-PR3	Z	448935.80	116449.59	6.00	248.00	0.00	0.00	0.40			
P7-R1	X	448910.29	116176.25	6.00	241.00	0.00	0.00	0.40			
P8-PR3	Z	448913.53	116437.81	6.00	154.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

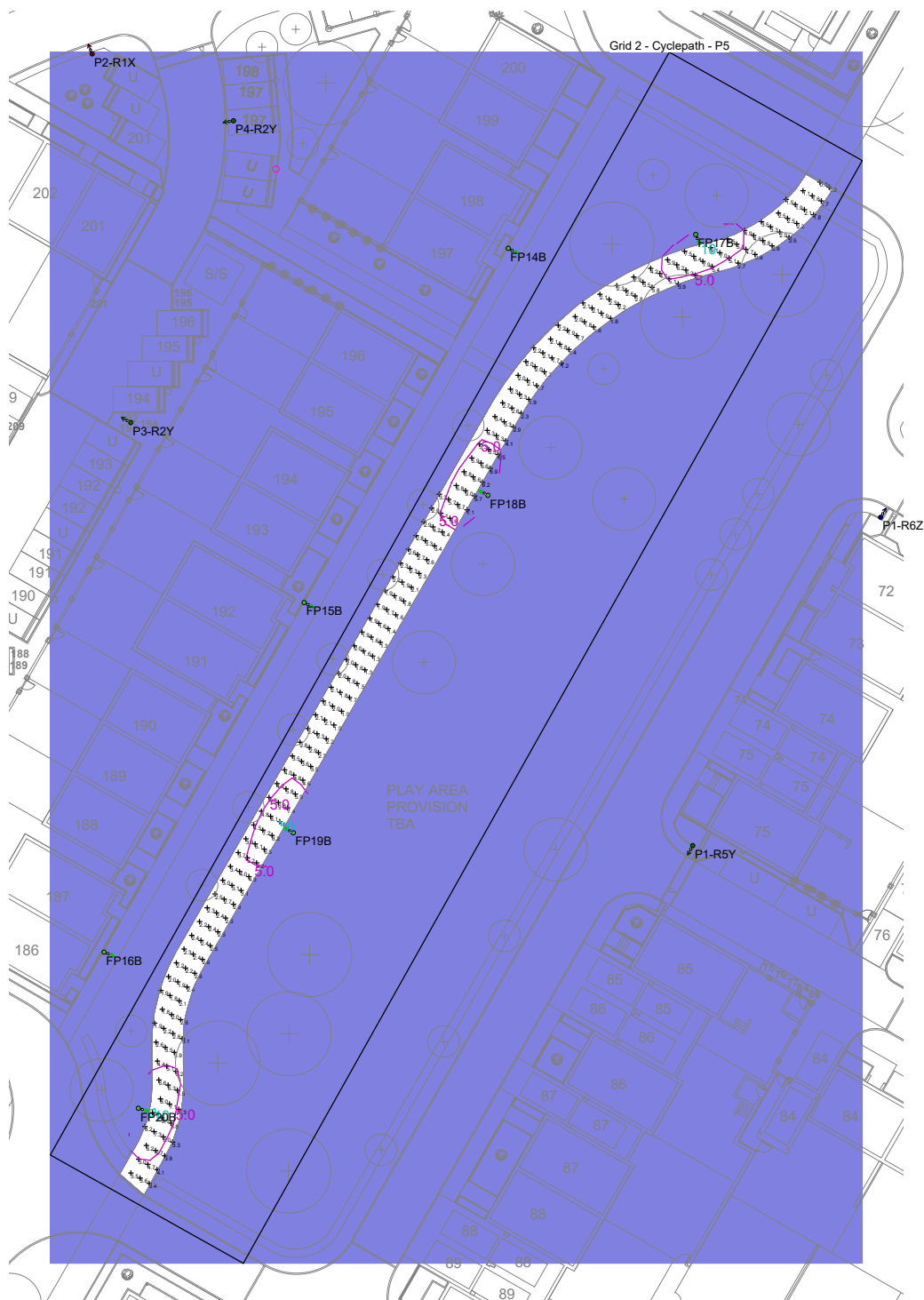
Grid 1 - Parking Area Plots 271-276

**Results**

Eav	3.10
Emin	0.56
Emax	10.56
Emin/Emax	0.05
Emin/Eav	0.18

Horizontal Illuminance (lux)

Grid 2 - Cyclepath - P5



Results

Eav	3.61
Emin	0.92
Emax	10.82
Emin/Emax	0.09
Emin/Eav	0.26

Illuminance (lux)

Grid 3 - Vertical Plot 186-187

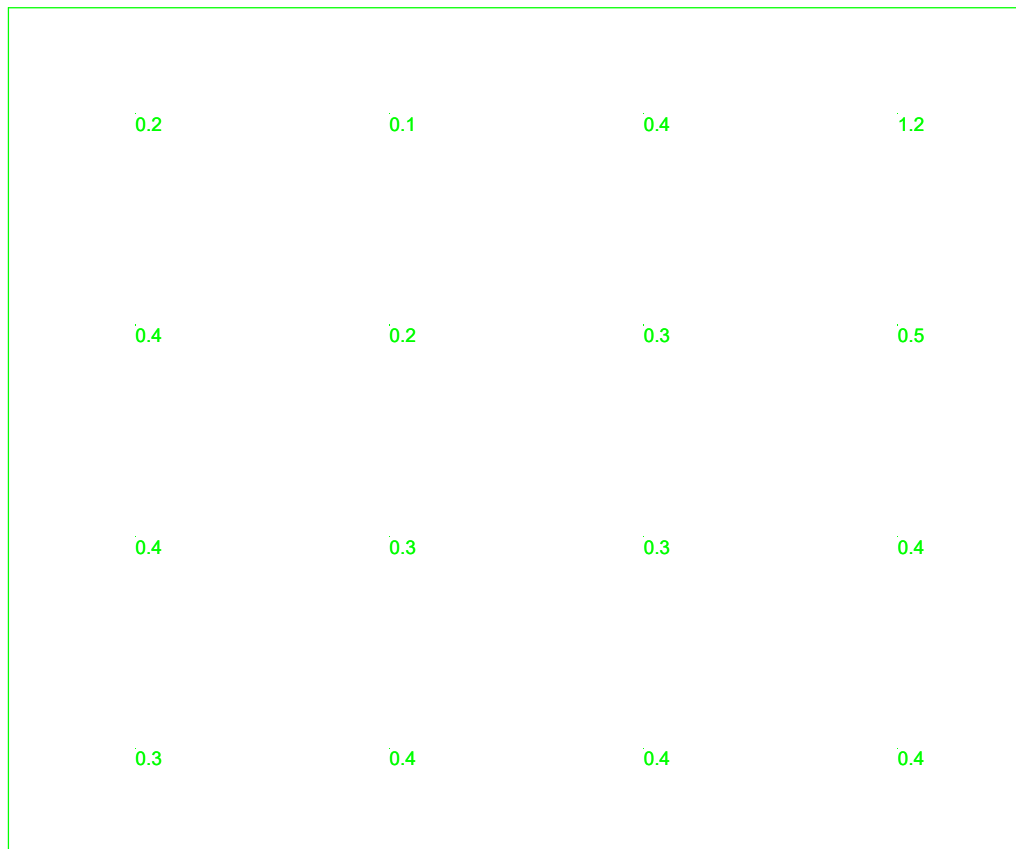
0.0	0.1	0.3	0.9	0.8	0.3	0.2	0.5
0.1	0.1	0.3	0.6	0.5	0.3	0.2	0.8
0.1	0.1	0.2	0.3	0.3	0.3	0.4	0.8
0.1	0.1	0.2	0.2	0.2	0.3	0.5	0.7

Results

Eav	0.34
Emin	0.04
E _{max}	0.87
Emin/E _{max}	0.05
Emin/Eav	0.12

Illuminance (lux)

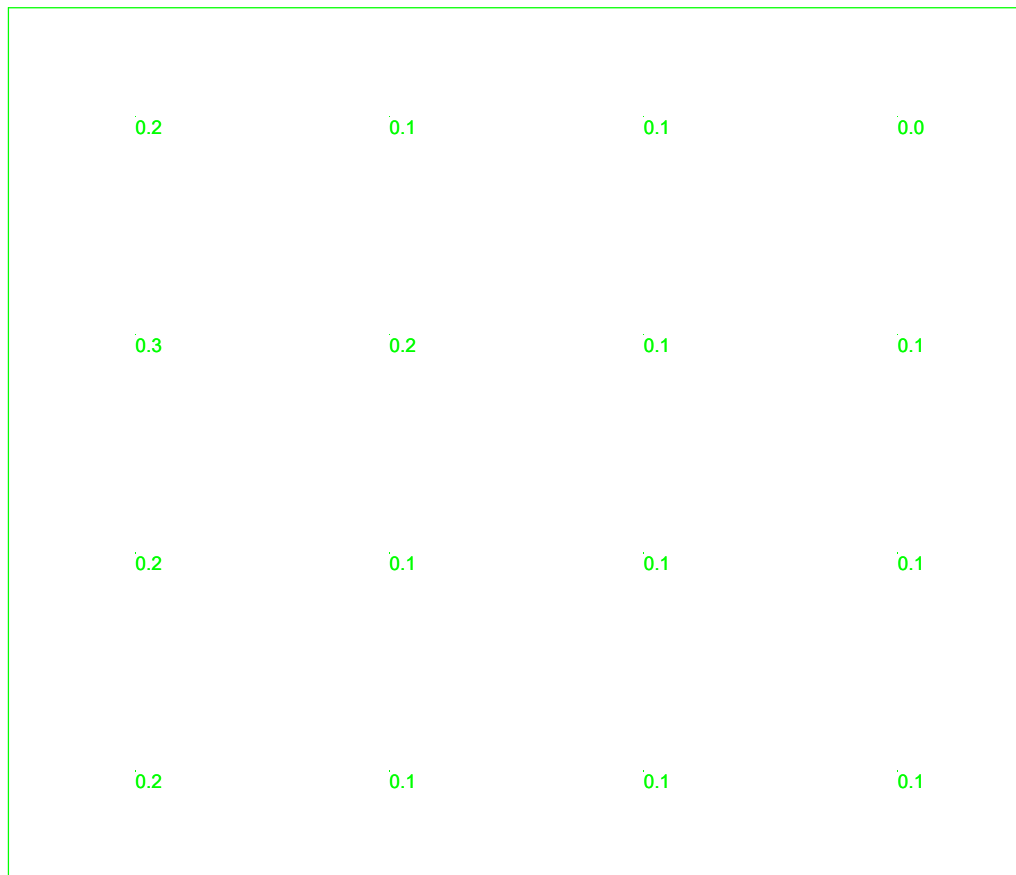
Grid 4 - Vertical Plot 192

**Results**

Eav	0.39
Emin	0.14
Emax	1.21
Emin/Emax	0.12
Emin/Eav	0.36

Illuminance (lux)

Grid 5 - Vertical Plot 193

**Results**

Eav	0.13
Emin	0.03
E _{max}	0.29
Emin/E _{max}	0.12
Emin/Eav	0.25

Illuminance (lux)

Grid 6 - Vertical Plots 197-198

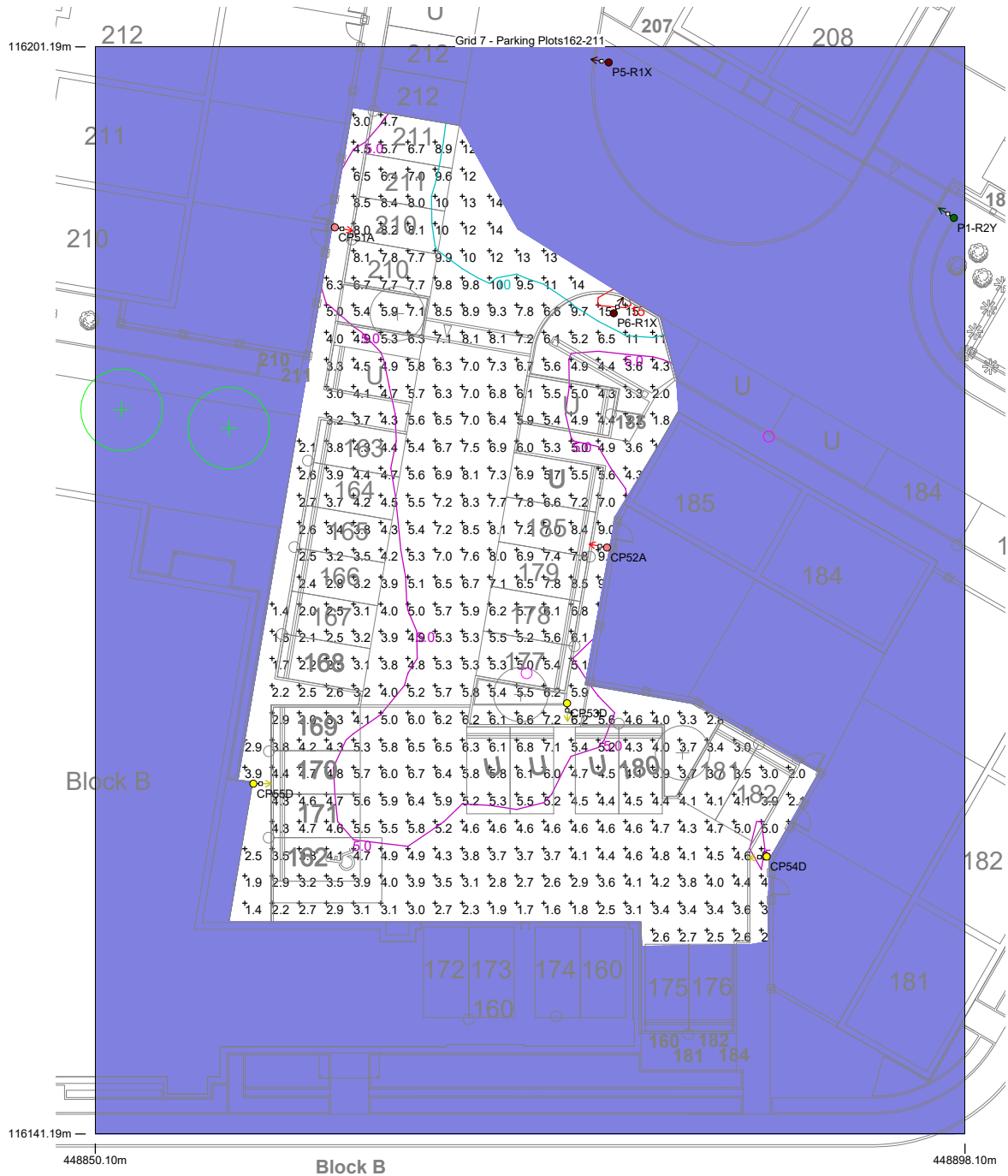
0.3	0.2	0.4	1.3	1.3	0.4	0.5	0.5
0.5	0.2	0.3	0.6	0.6	0.4	0.4	0.6
0.4	0.4	0.3	0.4	0.4	0.3	0.5	0.6
0.4	0.5	0.4	0.4	0.4	0.5	0.6	0.5

Results

Eav	0.48
Emin	0.15
Emax	1.32
Emin/Emax	0.12
Emin/Eav	0.32

Horizontal Illuminance (lux)

Grid 7 - Parking Plots 162-211

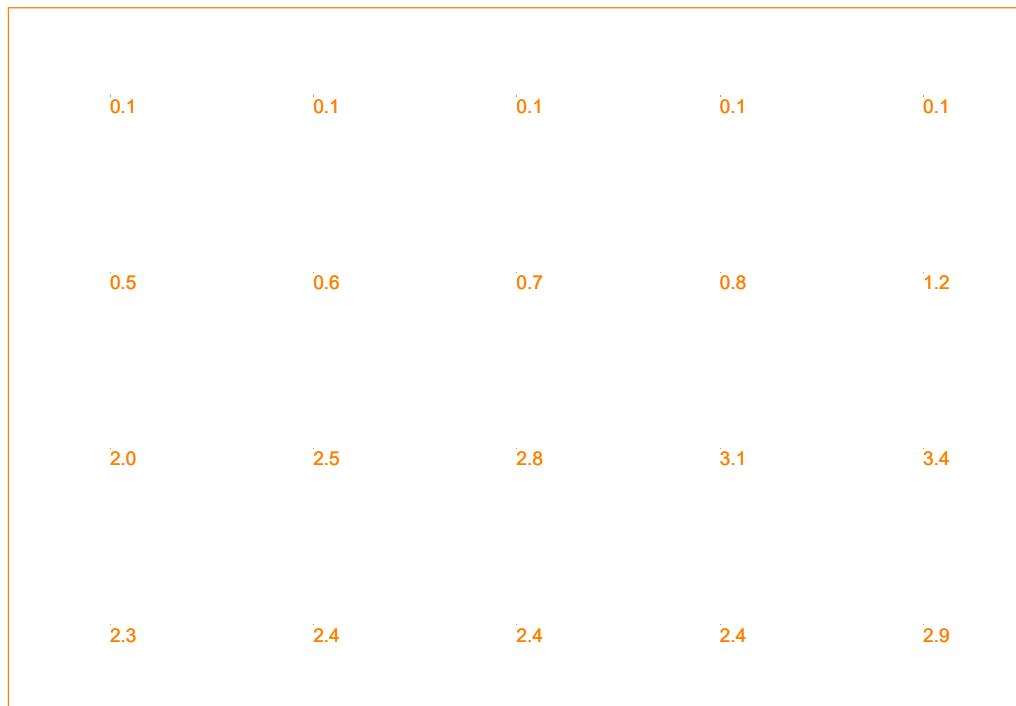


Results

Eav	5.37
Emin	1.41
Emax	15.44
Emin/Emax	0.09
Emin/Eav	0.26

Illuminance (lux)

Grid 8 - Vertical Plot 160 (side)



Results

Eav	1.52
Emin	0.08
Emax	3.36
Emin/Emax	0.02
Emin/Eav	0.05

Illuminance (lux)

Grid 9 - Vertical Plot 160

0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
0.3	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.4
1.3	0.5	0.4	0.6	0.7	0.9	1.0	1.1	1.4
2.1	1.4	1.0	1.3	1.6	2.0	2.5	3.0	3.5

Results

Eav	0.83
Emin	0.09
E _{max}	3.49
Emin/E _{max}	0.03
Emin/Eav	0.11

Illuminance (lux)

Grid 10 - Vertical Block B

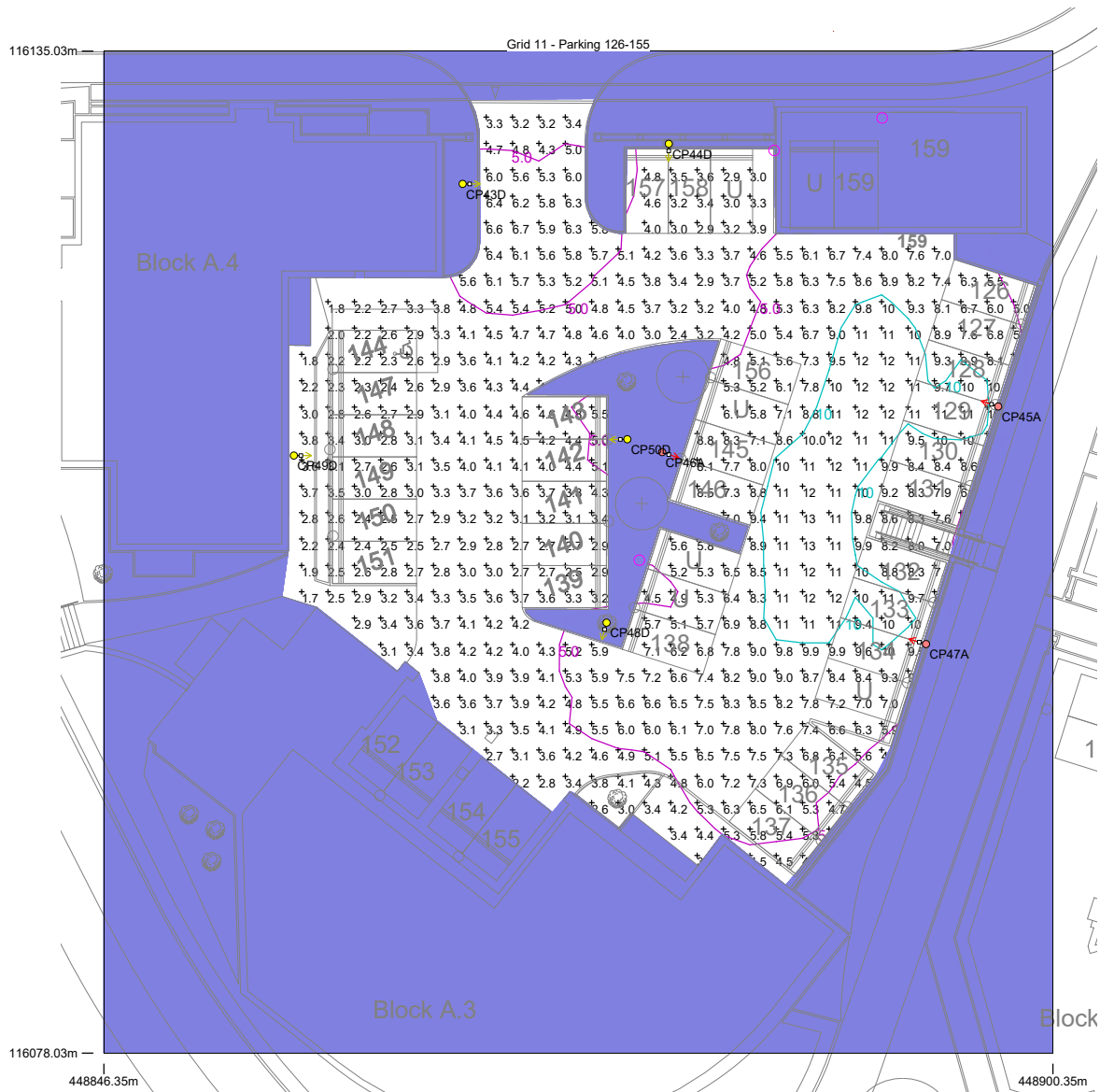
0.1	0.1	0.1	0.3	0.7	1.6	1.1	0.5	0.2	0.2	0.4	0.2	0.1
0.1	0.2	0.3	0.5	0.8	1.2	1.1	0.7	0.5	0.3	0.8	0.7	0.5
0.3	0.4	0.5	0.7	0.9	1.1	1.0	0.9	0.8	0.5	0.4	0.6	0.7
0.7	0.8	0.9	1.1	1.3	1.6	1.6	1.4	1.1	0.7	0.4	0.4	0.4

Results

Eav	0.66
Emin	0.06
E _{max}	1.63
Emin/E _{max}	0.04
Emin/Eav	0.09

Horizontal Illuminance (lux)

Grid 11 - Parking 126-155

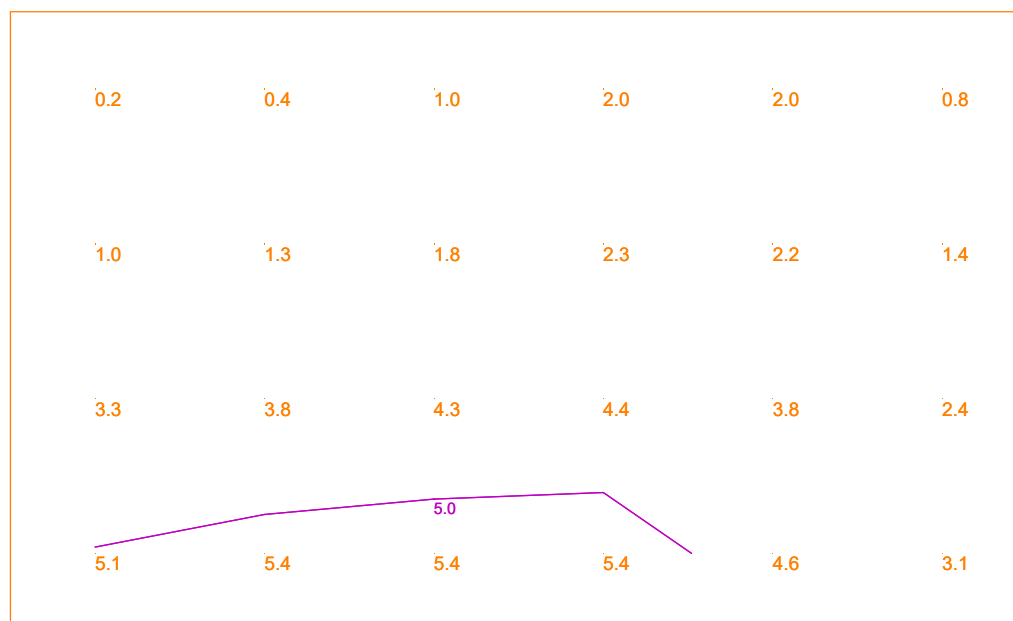


Results

Eav	5.81
Emin	1.74
Emax	12.69
Emin/Emax	0.14
Emin/Eav	0.30

Illuminance (lux)

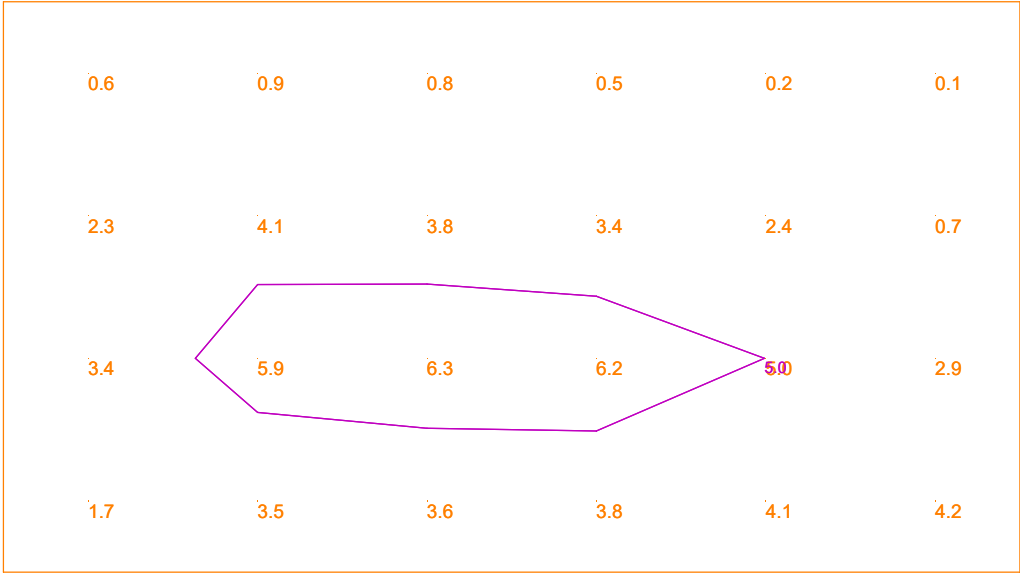
Grid 12 - Vertical Block A.4

**Results**

Eav	2.81
Emin	0.25
Emax	5.41
Emin/Emax	0.05
Emin/Eav	0.09

Illuminance (lux)

Grid 13 - Vertical Block A.4

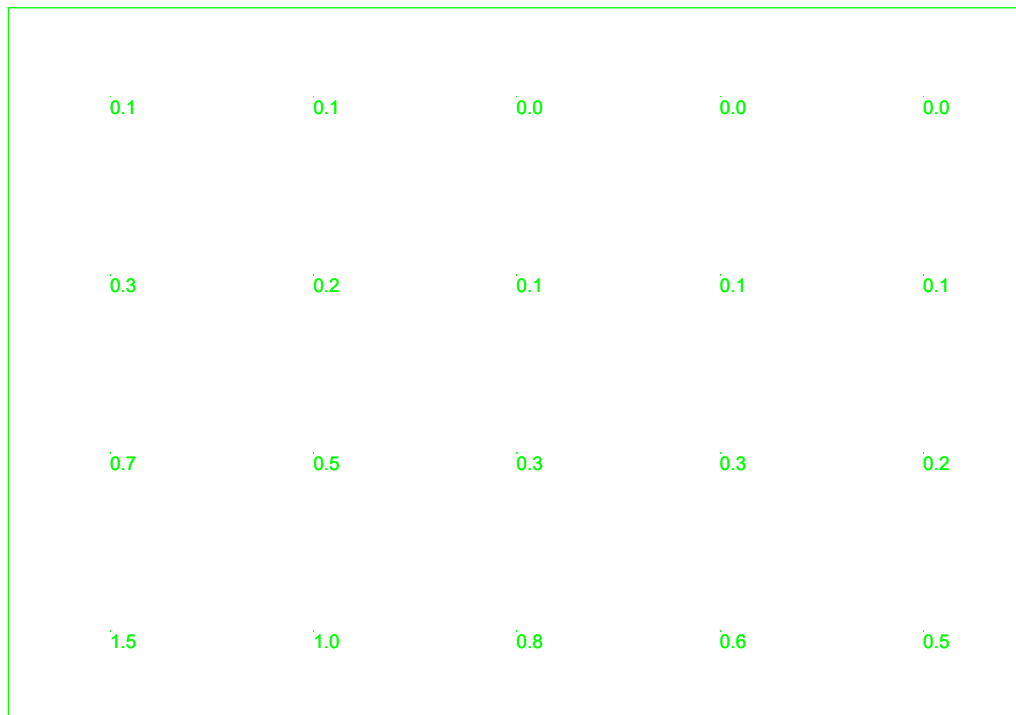


Results

Eav	2.95
Emin	0.13
Emax	6.34
Emin/Emax	0.02
Emin/Eav	0.04

Illuminance (lux)

Grid 14 - Vertical Block A.3

**Results**

Eav	0.37
Emin	0.03
Emax	1.55
Emin/Emax	0.02
Emin/Eav	0.08

Illuminance (lux)

Grid 15 - Vertical Block A.4

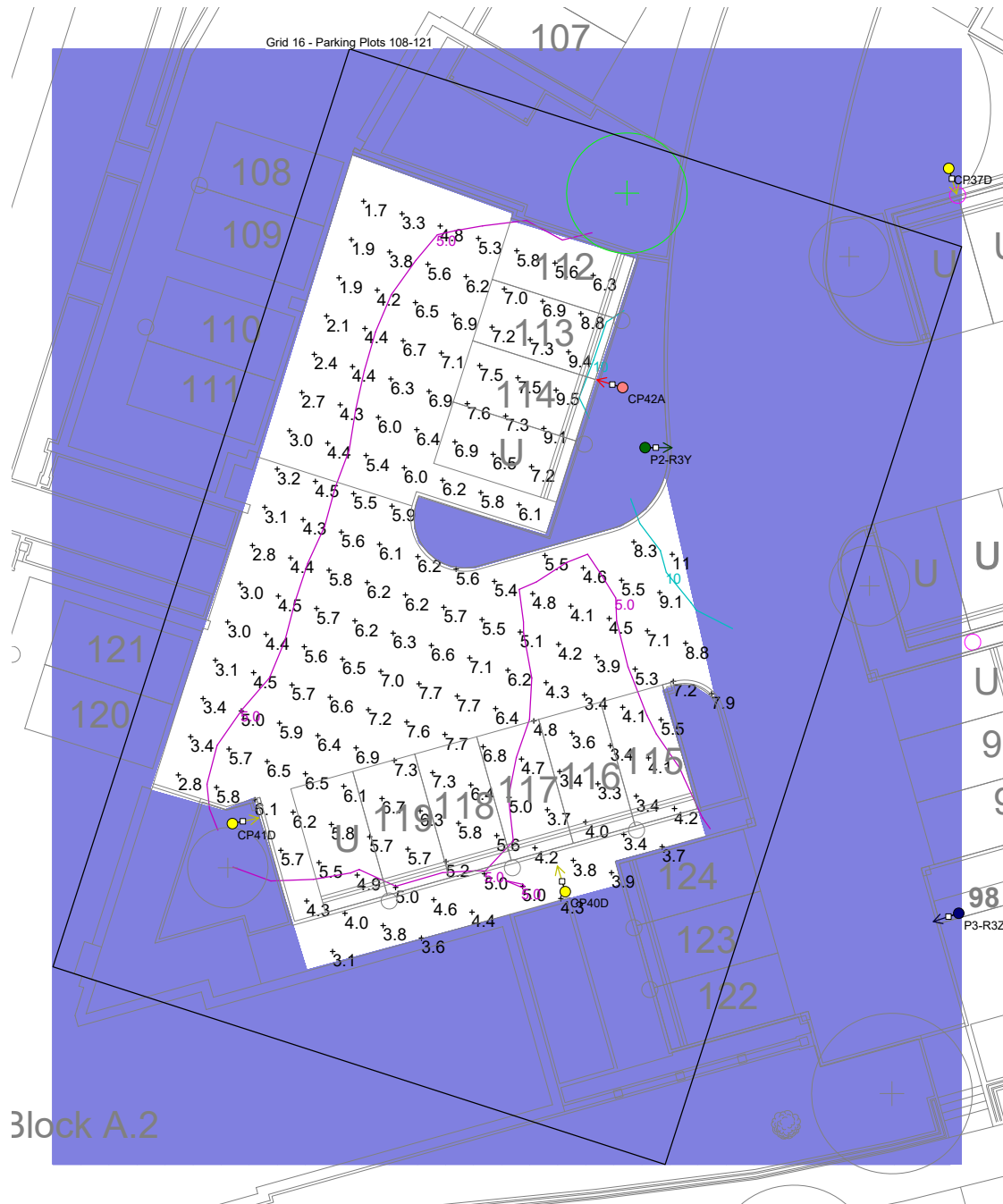
0.4	0.3	0.9	2.8	1.9	0.6	0.2	0.4	0.2	0.1	0.1
0.4	0.7	1.1	2.2	1.7	0.8	0.4	0.3	0.4	0.3	0.3
0.7	0.7	0.9	1.2	1.1	0.7	0.5	0.4	0.4	0.4	0.4
0.9	0.7	0.6	0.7	0.7	0.6	0.5	0.6	0.6	0.7	0.7

Results

Eav	0.70
Emin	0.08
E _{max}	2.80
Emin/E _{max}	0.03
Emin/Eav	0.12

Horizontal Illuminance (lux)

Grid 16 - Parking Plots 108-121

**Results**

Eav	5.44
Emin	1.74
Emax	10.76
Emin/Emax	0.16
Emin/Eav	0.32

Illuminance (lux)

Grid 17 - Vertical Block A.2

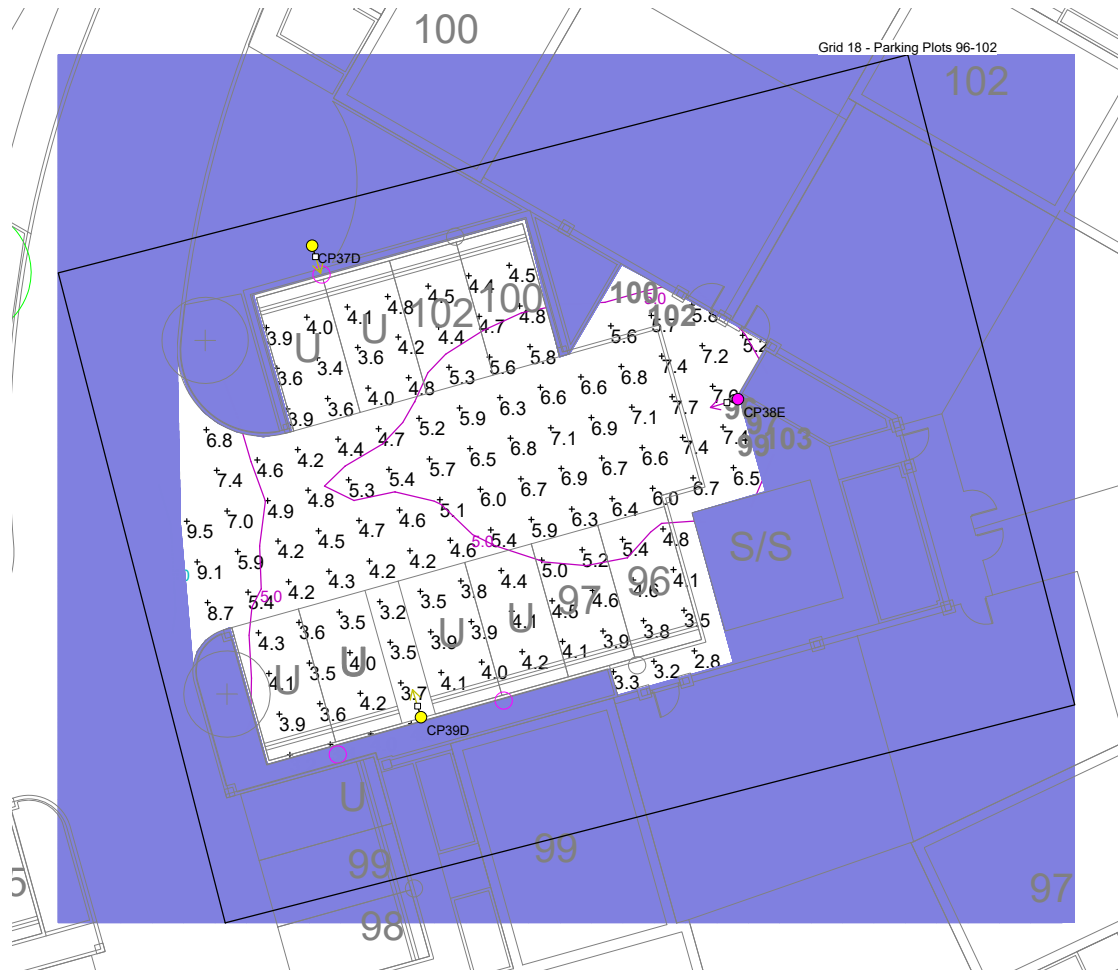
0.1	0.1	0.1	0.2	0.2	0.3	0.5	0.5	0.3	1.4	1.5
0.2	0.4	0.5	0.6	0.8	1.0	1.1	0.8	0.6	1.4	3.5
0.6	0.9	1.2	1.5	2.1	2.6	2.7	1.8	1.4	1.4	1.7
1.1	1.7	2.4	3.0	3.7	4.3	4.3	3.7	3.1	2.7	2.3

Results

Eav	1.51
Emin	0.07
E _{max}	4.33
Emin/E _{max}	0.02
Emin/Eav	0.05

Horizontal Illuminance (lux)

Grid 18 - Parking Plots 96-102

**Results**

Eav	5.07
Emin	2.82
Emax	9.45
Emin/Emax	0.30
Emin/Eav	0.56

Illuminance (lux)

Grid 19 - Vertical Block A.1

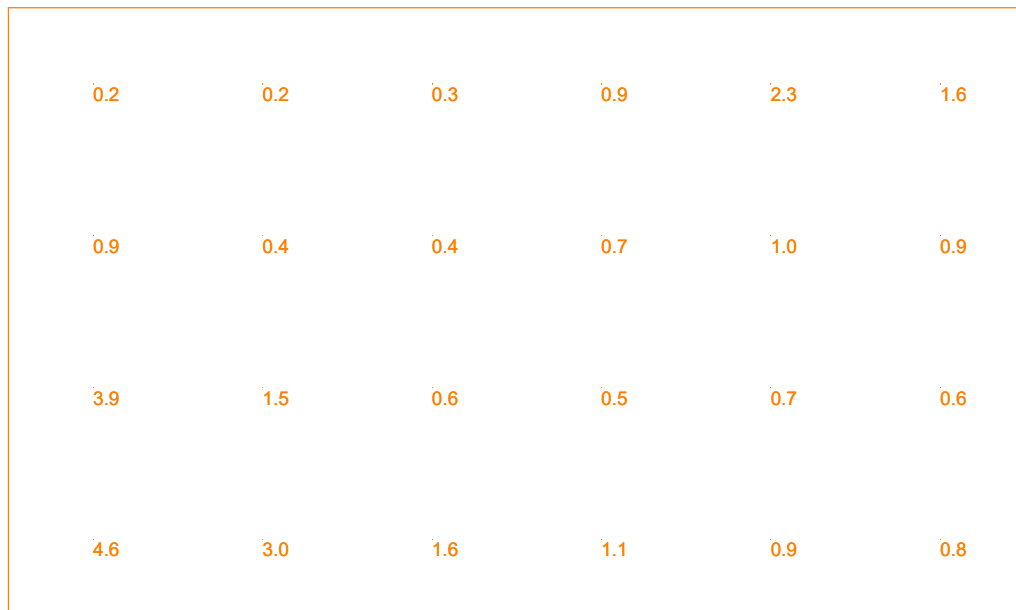
0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
0.7	0.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2
1.7	1.3	0.9	0.7	0.6	0.4	0.4	0.4	0.4	0.4
2.9	2.8	2.2	1.7	1.5	1.1	0.9	1.1	1.1	1.2

Results

Eav	0.69
Emin	0.09
E _{max}	2.86
Emin/E _{max}	0.03
Emin/Eav	0.13

Illuminance (lux)

Grid 20 - Vertical Plot 99

**Results**

Eav	1.24
Emin	0.16
Emax	4.60
Emin/Emax	0.03
Emin/Eav	0.13