

DATE: 13/06/2024
DESIGNER: James Duffin BA (Hons) IEng MILP
PROJECT No: EVO20024963-AC-003-B
PROJECT NAME: Lower Acre Private Footpaths & Parking Areas

ENERVEO

Lower Acre Private Footpaths & Parking Areas
Parcel 1.2

Footpaths Lighting Class - P5 / P6
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
Senior Lighting Designer
Enerveo
Unit 34
Palmerston Business Park
Fareham
Hampshire
PO14 1DJ
e-mail: james.duffin@enerveo.com

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 - Footpath Plots 34...	448955.41	116444.37	33.00	6.00	1.50	0.33
2	Grid 2 - Footpath Plots 36...	448781.00	116486.41	63.00	27.00	0.50	0.50
3	Grid 3 - Vertical Plots 34...	448983.00	116434.56	23.36	5.00	1.46	1.25
4	Grid 4 - Vertical Plots 372...	448806.00	116501.35	23.28	5.00	1.46	1.25
5	Grid 5 - Vertical Plot 371	448823.25	116493.75	8.31	5.00	1.39	1.25
6	Grid 6 - Parking Plots 372-...	448785.69	116454.35	54.00	30.00	2.16	1.20
7	Grid 7 - Vertical Plot 376	448804.84	116457.08	5.88	5.00	1.47	1.25
8	Grid 8 - Footpath Plots 36...	448831.81	116436.46	12.00	24.00	0.86	0.50
9	Grid 9 - Parking Plots 363...	448859.95	116417.94	21.00	33.00	1.50	1.50
10	Grid 10 - Central footpath...	448859.52	116355.27	24.00	96.00	0.50	0.50
11	Grid 11 - Parking 333-352	448890.72	116374.91	30.00	21.00	1.20	0.84
12	Grid 12 - Vertical 350-351	448900.96	116392.03	6.63	5.00	1.33	1.25
13	Grid 13 - Vertical Plot 35...	448911.05	116381.58	10.92	5.00	1.37	1.25
14	Grid 14 - Vertical Plot 33...	448917.73	116369.38	11.00	5.00	1.38	1.25
15	Grid 15 - Parking Plots 34...	448915.22	116398.24	18.00	21.00	1.50	1.50
16	Grid 16 - Vertical Plot 35...	448922.83	116412.97	14.74	5.00	1.47	1.25
17	Grid 17 - Parking Plots 34...	448944.74	116410.75	33.00	18.00	1.50	1.50
18	Grid 18 - Vertical Plot 34...	448970.01	116400.99	11.61	5.00	1.45	1.25
19	Grid 19 - Vertical Plot 34...	448943.49	116425.33	11.41	5.00	1.43	1.25

Luminaires

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 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 ...
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	449019.85	116187.73	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	448859.85	116094.58	6.00	47.00	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

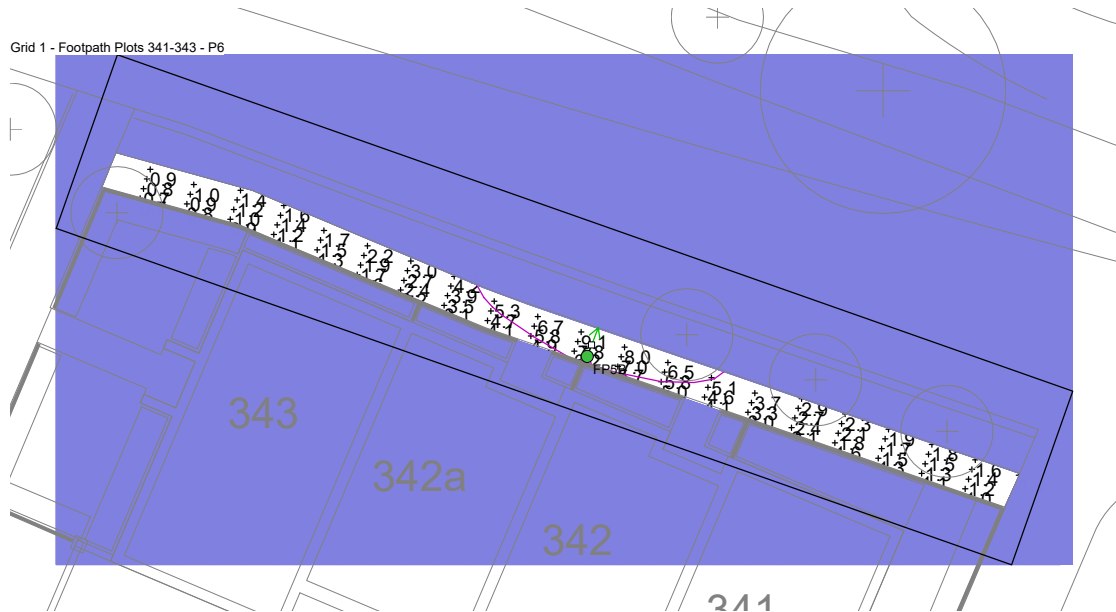
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
FP6	B	448840.42	116488.69	6.00	68.00	0.00	0.00	0.40			
FP7	B	448814.07	116500.20	6.00	67.00	0.00	0.00	0.40			
FP8	B	448794.21	116500.31	6.00	107.00	0.00	0.00	0.40			
FP9	C	448843.96	116444.75	6.00	157.00	0.00	0.00	0.40			
P1-PR1	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 - Footpath Plots 341-343 - P6



Results

Eav	2.85
Emin	0.67
E _{max}	9.05
Emin/E _{max}	0.07
Emin/Eav	0.23

Horizontal Illuminance (lux)

Grid 2 - Footpath Plots 369-375 - P5



Results

Eav	4.01
Emin	0.71
Emax	10.34
Emin/Emax	0.07
Emin/Eav	0.18

Illuminance (lux)

Grid 3 - Vertical Plots 341-343

0.0	0.0	0.0	0.0	0.1	0.1	0.4	1.2	1.2	0.4	0.2	0.4	0.1	0.0	0.0	0.0
0.0	0.1	0.2	0.3	0.2	0.2	0.3	0.5	0.5	0.3	0.2	0.6	0.5	0.4	0.3	0.1
0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.3	0.3	0.3	0.4	0.5	0.4	0.3	0.3	0.3
0.1	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.5	0.4	0.4	0.3	0.2	0.2

Results

Eav	0.28
Emin	0.00
Emax	1.16
Emin/Emax	0.00
Emin/Eav	0.02

Illuminance (lux)

Grid 4 - Verical Plots 372-375

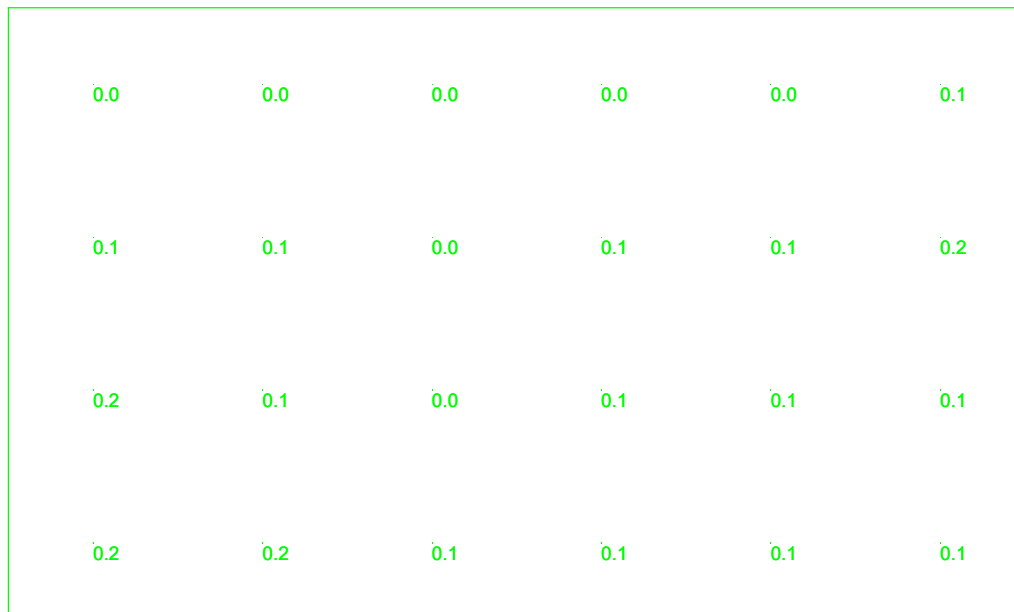
0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.1	0.0	0.0	0.1	0.1	0.2	0.4	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0
0.2	0.1	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.2	0.1	0.1	0.0	0.0	0.0	0.0
0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.0	0.0	0.0	0.0

Results

Eav	0.09
Emin	0.00
Emax	0.37
Emin/Emax	0.01
Emin/Eav	0.06

Illuminance (lux)

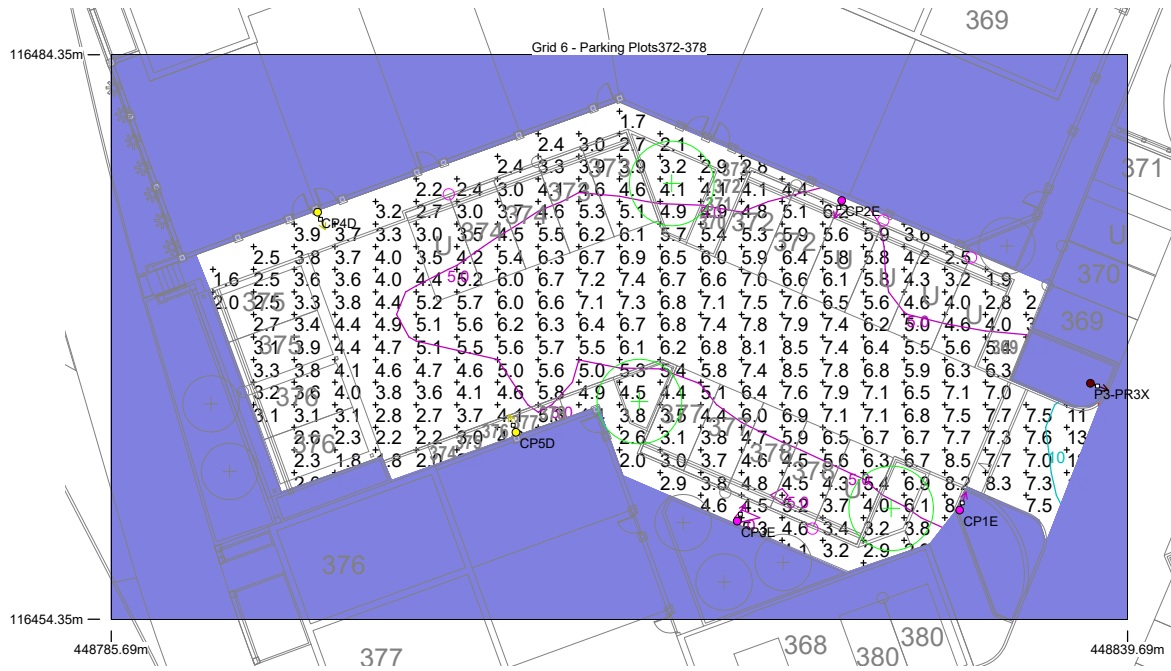
Grid 5 - Vertical Plot 371

**Results**

Eav	0.08
Emin	0.01
Emax	0.19
Emin/Emax	0.04
Emin/Eav	0.10

Horizontal Illuminance (lux)

Grid 6 - Parking Plots 372-378

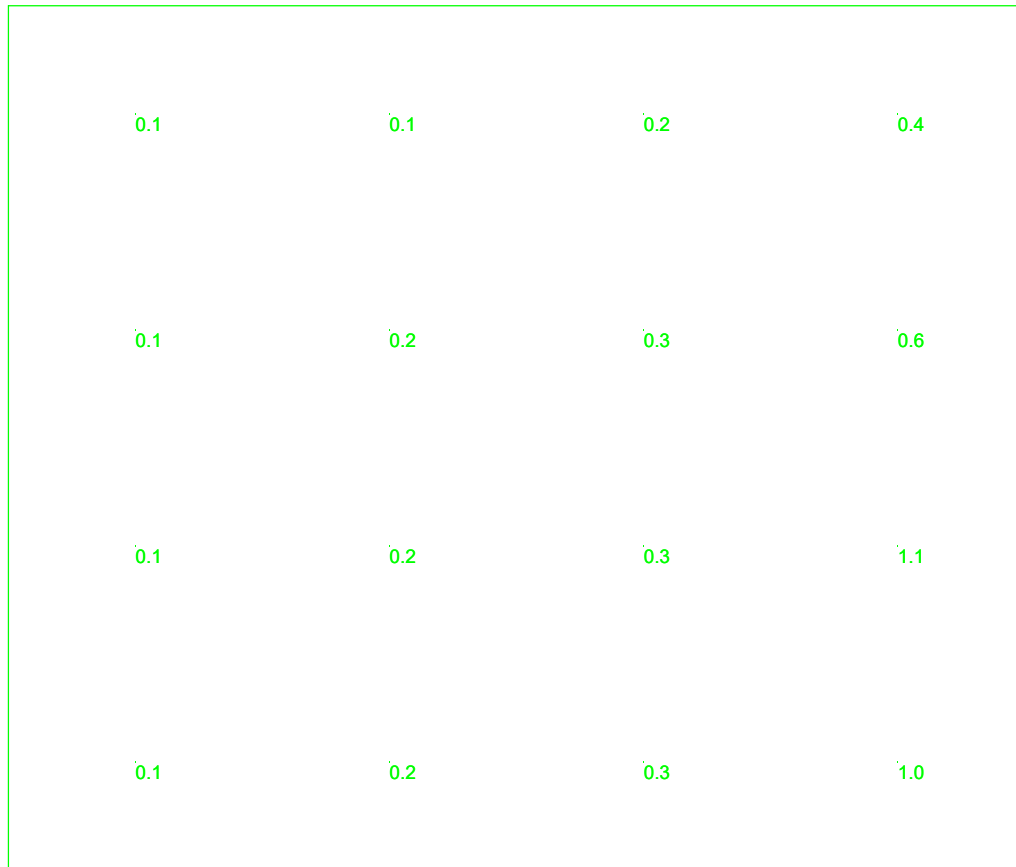


Results

Eav	5.01
Emin	1.31
Emax	12.62
Emin/Emax	0.10
Emin/Eav	0.26

Illuminance (lux)

Grid 7 - Vertical Plot 376

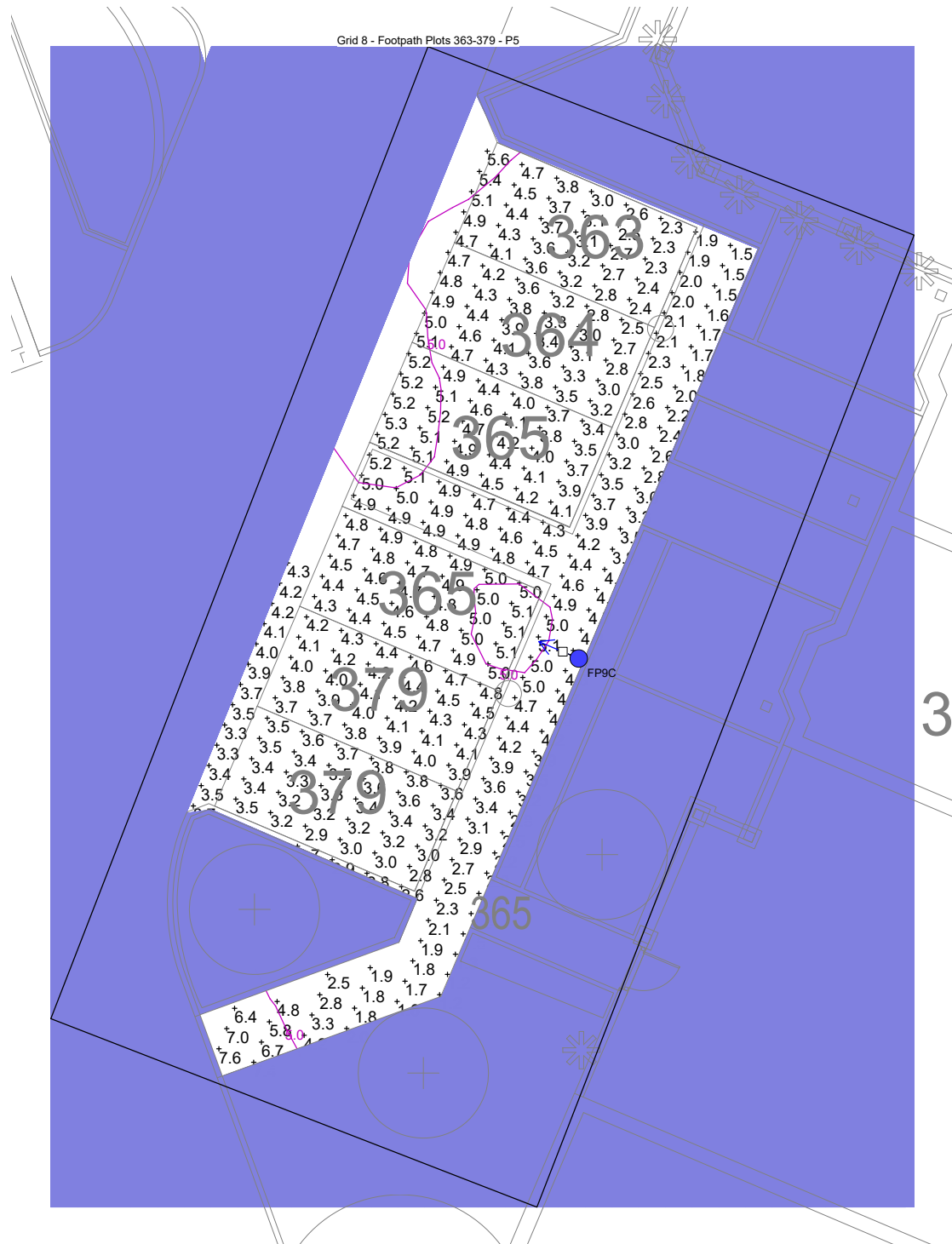


Results

Eav	0.33
Emin	0.05
Emax	1.14
Emin/Emax	0.04
Emin/Eav	0.15

Horizontal Illuminance (lux)

Grid 8 - Footpath Plots 363-379 - P5

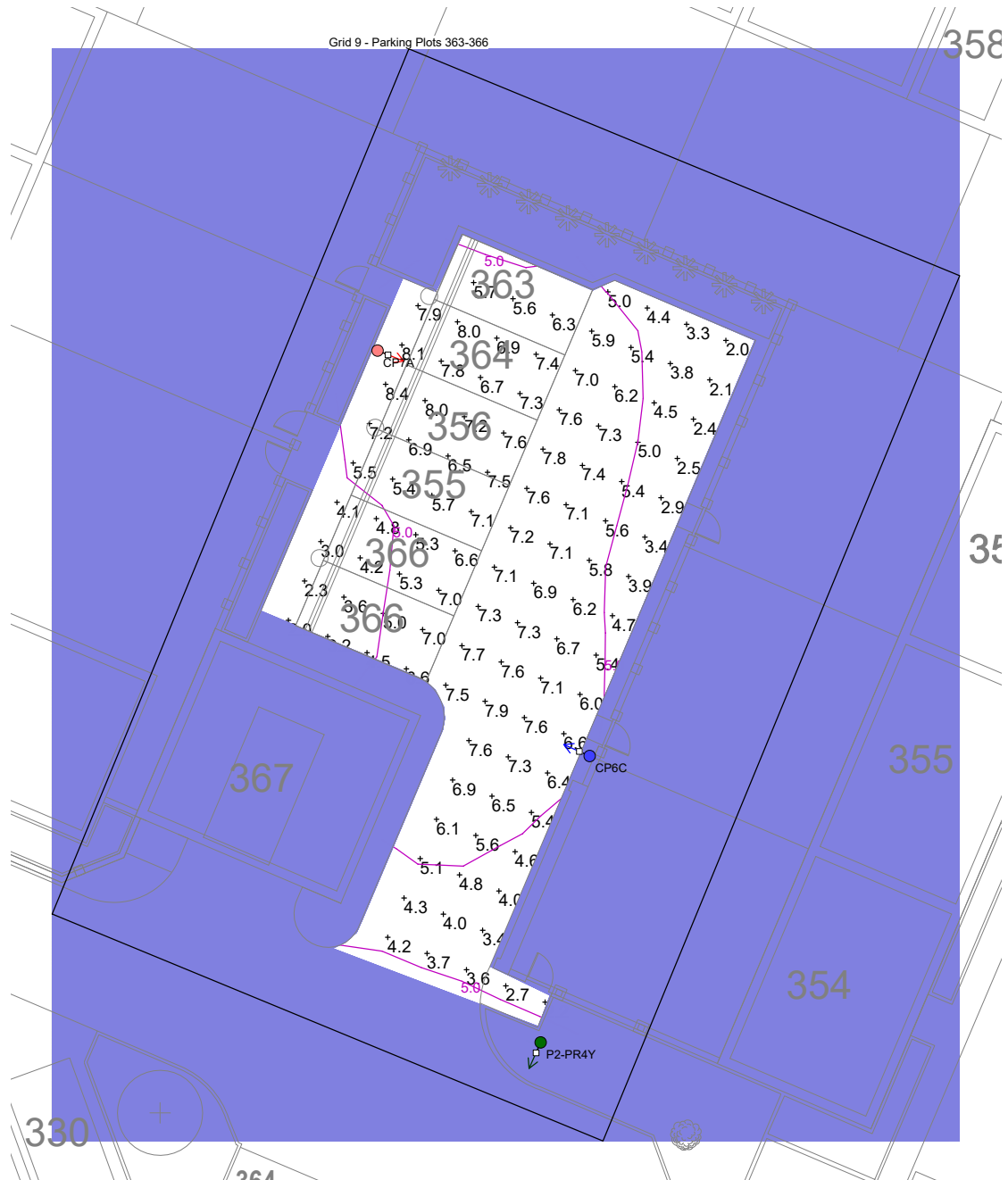


Results

Eav	3.80
Emin	1.16
Emax	7.56
Emin/Emax	0.15
Emin/Eav	0.31

Horizontal Illuminance (lux)

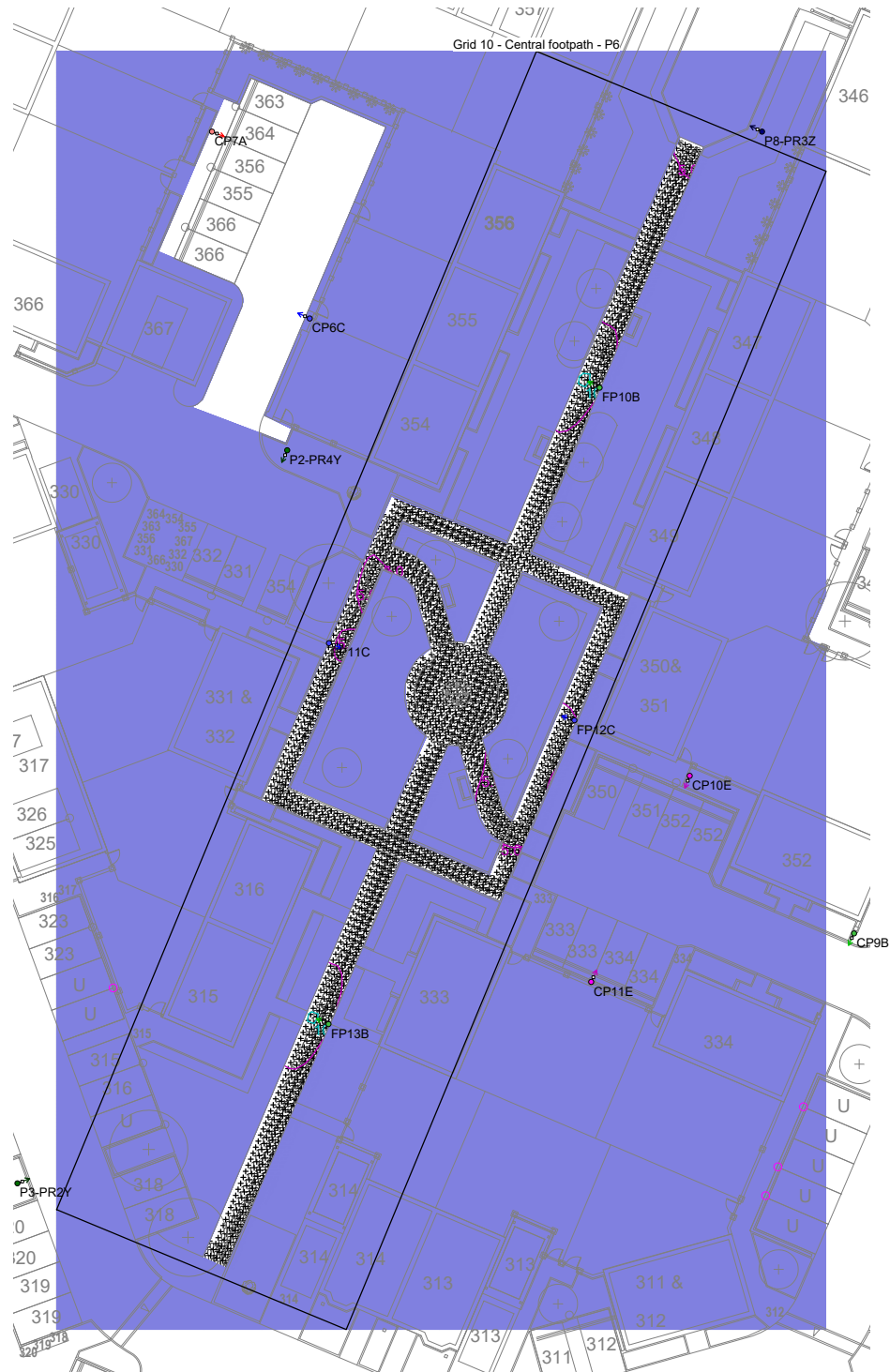
Grid 9 - Parking Plots 363-366

**Results**

Eav	5.72
Emin	1.97
Emax	8.39
Emin/Emax	0.23
Emin/Eav	0.34

Horizontal Illuminance (lux)

Grid 10 - Central footpath - P6

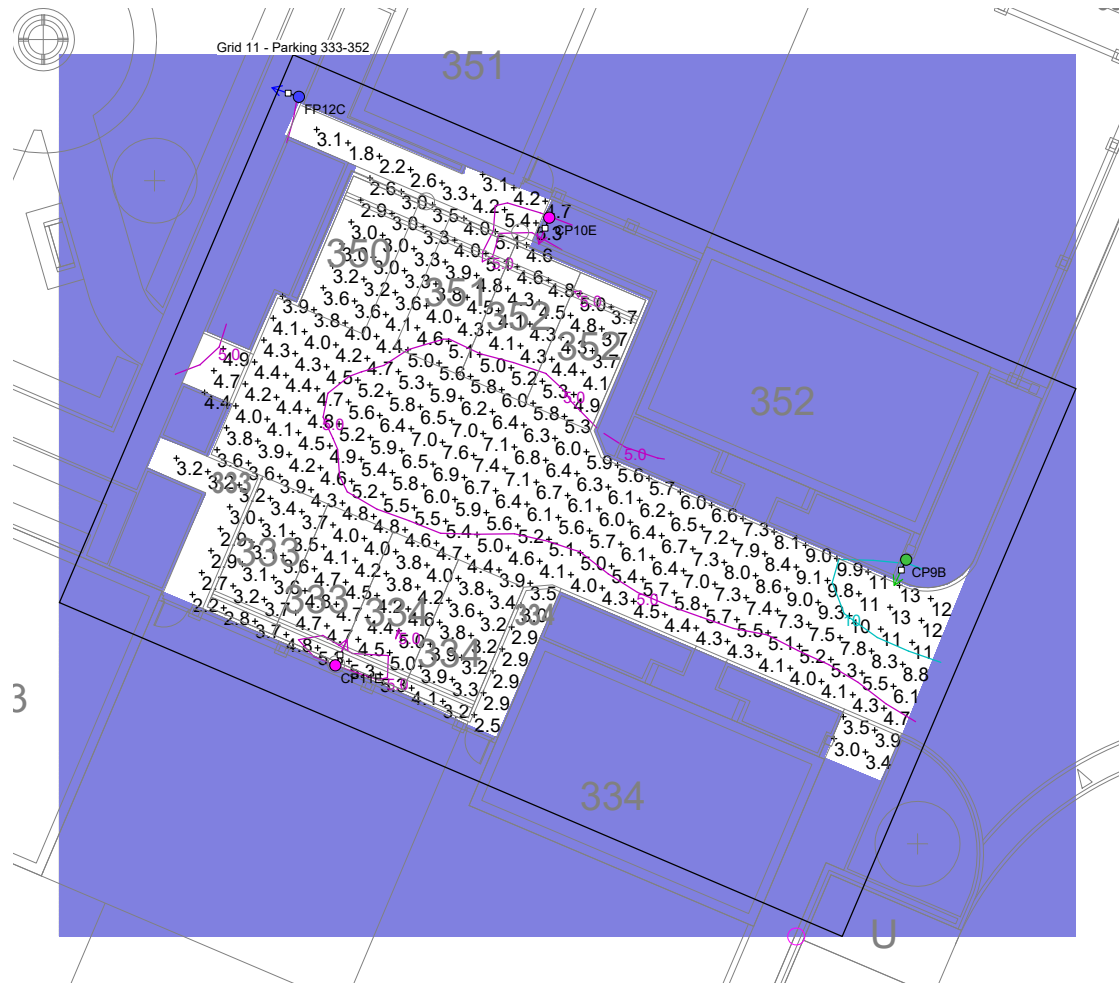


Results

Eav	3.30
Emin	0.47
Emax	10.44
Emin/Emax	0.04
Emin/Eav	0.14

Horizontal Illuminance (lux)

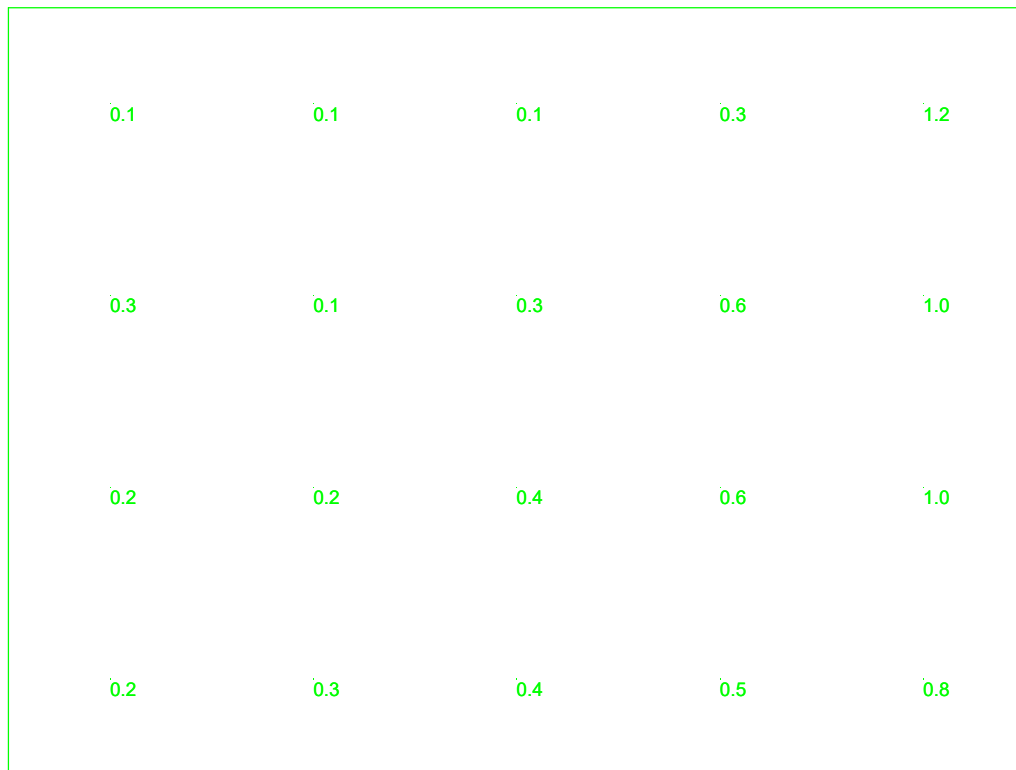
Grid 11 - Parking 333-352

**Results**

Eav	5.05
Emin	1.75
Emax	13.40
Emin/Emax	0.13
Emin/Eav	0.35

Illuminance (lux)

Grid 12 - Vertical 350-351

**Results**

Eav	0.44
Emin	0.08
E _{max}	1.21
Emin/E _{max}	0.07
Emin/Eav	0.19

Illuminance (lux)

Grid 13 - Vertical Plot 352

0.0	0.0	0.1	0.2	0.7	0.2	0.6	1.4
0.3	0.5	0.6	0.6	0.7	0.4	0.5	0.6
0.5	0.5	0.5	0.7	0.8	0.7	0.5	0.5
1.0	1.0	0.9	1.0	1.1	1.1	0.9	0.8

Results

Eav	0.63
Emin	0.04
E _{max}	1.39
Emin/E _{max}	0.03
Emin/Eav	0.07

Illuminance (lux)

Grid 14 - Vertical Plot 334

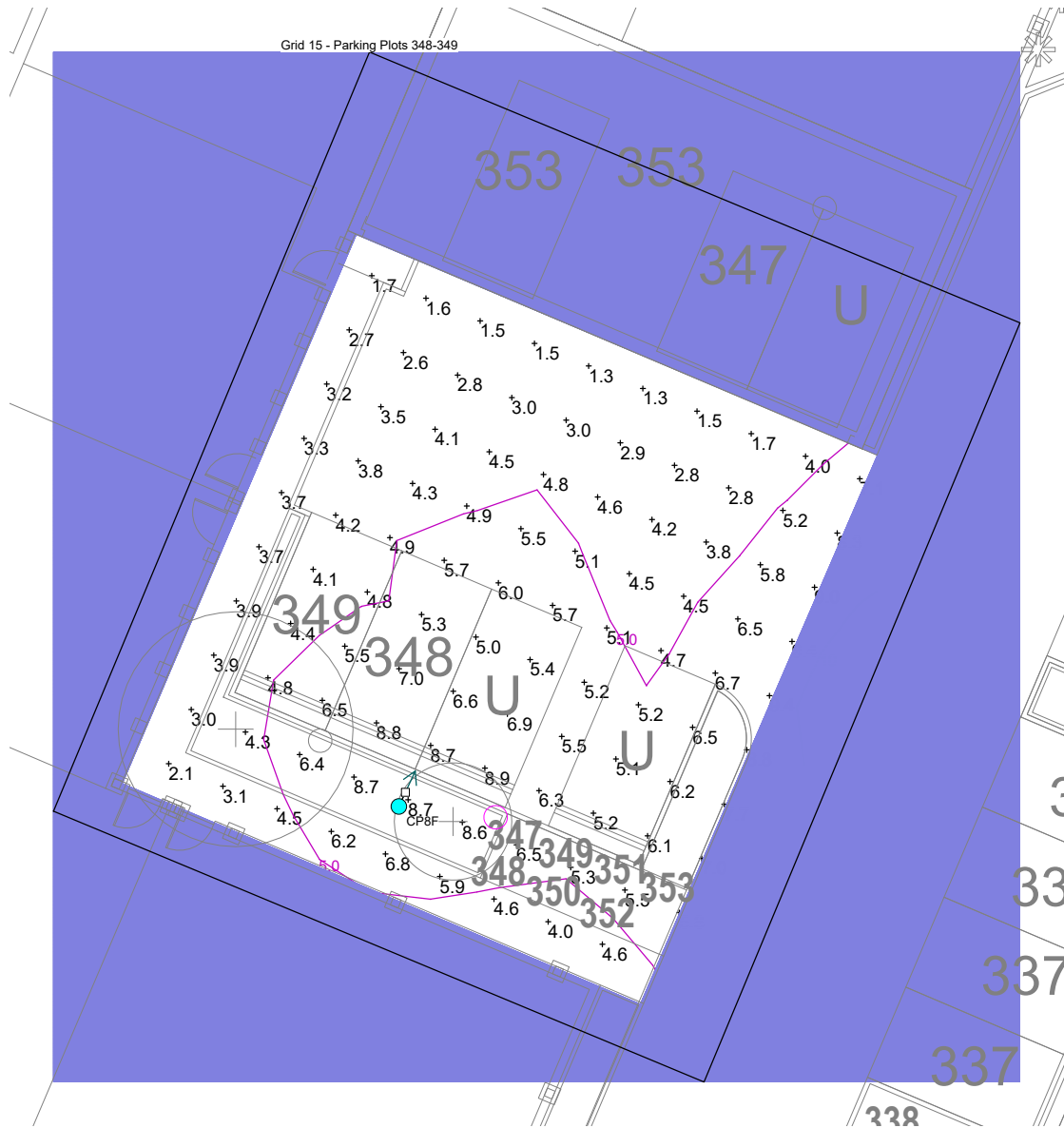
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2
1.1	0.6	0.6	0.4	0.4	0.4	0.5	0.4

Results

Eav	0.25
Emin	0.05
E _{max}	1.14
Emin/E _{max}	0.05
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 15 - Parking Plots 348-349



Results

Eav	5.03
Emin	1.27
Emax	9.39
Emin/Emax	0.14
Emin/Eav	0.25

Illuminance (lux)

Grid 16 - Vertical Plot 353

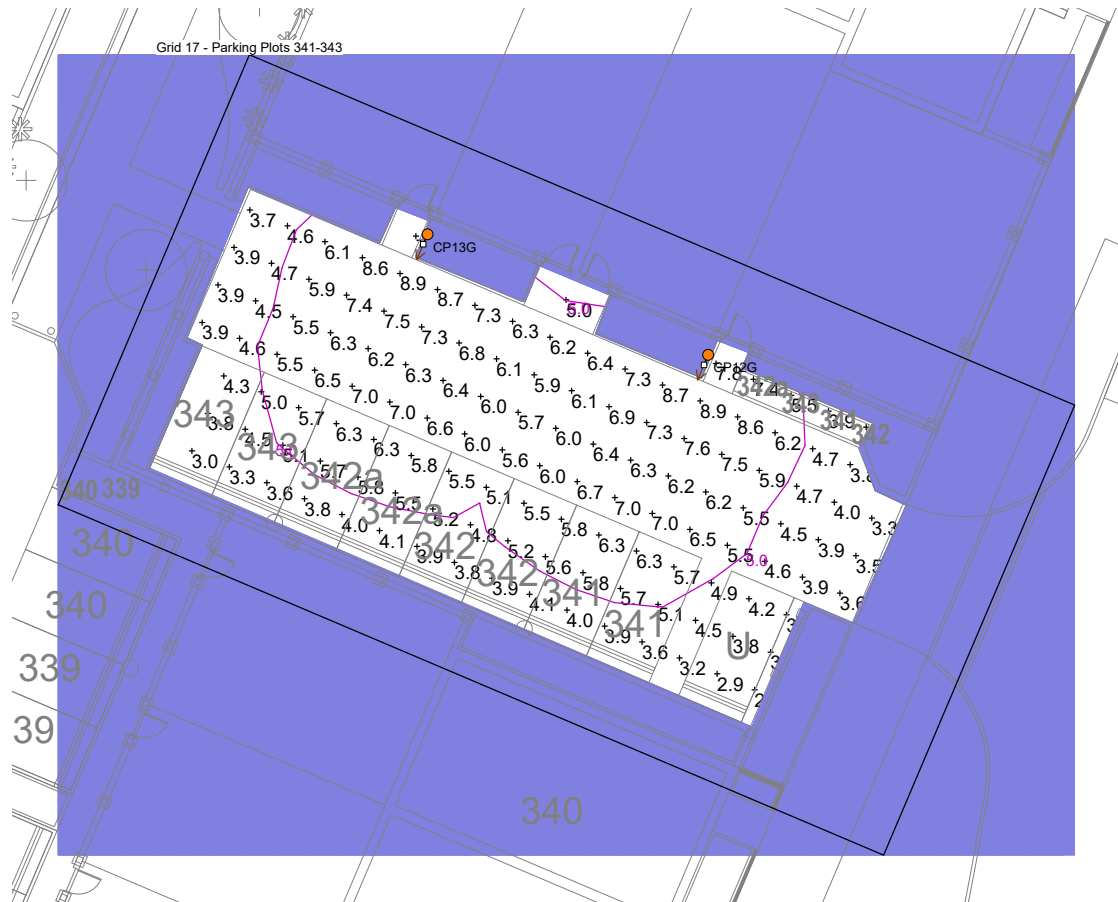
0.4	0.7	0.7	0.5	0.3	0.3	0.5	0.7	0.6	0.4
0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3
0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.5	1.1
2.0	1.2	0.9	0.9	0.8	0.8	0.9	0.9	1.6	4.0

Results

Eav	0.68
Emin	0.22
E _{max}	4.03
E _{min} /E _{max}	0.05
E _{min} /E _{av}	0.32

Horizontal Illuminance (lux)

Grid 17 - Parking Plots 341-343



Results

Eav	5.48
Emin	2.81
Emax	8.90
Emin/Emax	0.32
Emin/Eav	0.51

Illuminance (lux)

Grid 18 - Vertical Plot 340

0.4	0.5	0.5	0.4	0.2	0.2	0.5	0.7
0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3
0.5	0.4	0.5	0.5	0.6	0.5	0.5	0.5
1.6	1.2	1.2	1.3	1.2	1.2	1.4	1.6

Results

Eav	0.63
Emin	0.21
E _{max}	1.58
Emin/E _{max}	0.13
Emin/Eav	0.33

Illuminance (lux)

Grid 19 - Vertical Plot 344

0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1
0.9	0.6	0.2	0.1	0.1	0.1	0.1	0.1
2.1	1.4	0.5	0.2	0.2	0.2	0.1	0.1
3.4	2.1	0.7	0.3	0.2	0.2	0.2	0.1

Results

Eav	0.48
Emin	0.06
Emax	3.42
Emin/Emax	0.02
Emin/Eav	0.13