

DATE: 9 September 2025
DESIGNER: DFL - UK
PROJECT No: 4074
PROJECT NAME: FOLDERS GROVE PHASE 2



Location: Folders Grove Phase 2
Environmental Zone: E2
GN01: 1.0lx Maximum
GN08: 0.4lx Maximum
Lighting parameters taken from ILP Guidance documents
GN01.2021 - The reduction of Obtrusive Light and GN08.2023 - Bats
and Artificial Lighting at Night.

This calculation is showing all luminaires at 100% output with a
maintenance factor of the light source set to 1.0 to show the worst
case horizontal and vertical light spill.

4074-DFL-HLG-XX-CA-EO-13002-S3-P02

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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	PSER 001	730.69	18.19	33.33	6.00	0.25	0.25
2	PSER 002	722.25	-15.50	24.58	6.00	0.25	0.25
3	PSER 003	722.20	-41.54	48.37	6.00	0.25	0.30
4	PSER 004	724.70	-92.10	38.11	6.00	0.24	0.25
5	PSER 005	670.46	-135.10	49.47	6.00	0.25	0.24
6	PSER 006	661.91	-126.64	60.43	6.00	0.25	0.25
7	PSER 007	642.95	-39.56	17.85	6.00	0.25	0.25
8	PSER 008	617.72	-24.12	17.17	6.00	0.25	0.25
9	PSER 009	624.31	-20.46	37.89	6.00	0.25	0.25
10	PSER 0010	599.49	37.28	39.81	6.00	0.25	0.25
11	PHAR 001 - (Outside Plot 1...	698.36	-30.27	3.54	6.00	0.25	0.25
12	PHAR 002 - (Outside Plot 3...	709.02	-71.97	5.63	6.00	0.24	0.25
13	PHAR 003 - (Outside Plot 3...	670.62	-80.00	5.34	6.00	0.25	0.25
14	PHAR 004 - (Outside Plot 1...	697.60	18.12	2.61	6.00	0.24	0.25

Luminaires

Luminaire B Data

Supplier	Urbis Schreder
Type	ALBANY GEN2 MIDI 5305 [Deep shape PC], [Lum. shape-related, P
Lamp(s)	20 LH351C@200mA WW 727 230V 01-37-043
LampFlux(klm)/Colour	2.04 WW 2700K/70
File Name	13.2W 548552 [Deep shape PC], [Lum. shap e-related, Plastic, White] BL 230V EF .ldt
Maintenance Factor	1.00
Lum. Int. Class	G1
No. in Project	19

Luminaire C Data

Supplier	Urbis Schreder
Type	ALBANY GEN2 MIDI 5366 [Deep shape PC], [Lum. shape-related, P
Lamp(s)	20 LH351C@200mA WW 727 230V 01-37-043
LampFlux(klm)/Colour	2.04 WW 2700K/70
File Name	13.2W 548672 [Deep shape PC], [Lum. shap e-related, Plastic, White] BL 230V EF .ldt
Maintenance Factor	1.00
Lum. Int. Class	G3
No. in Project	1

Layout

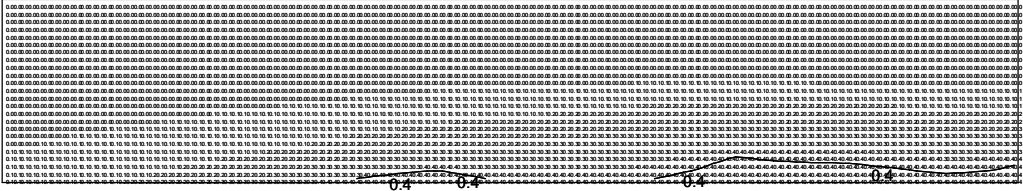
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	B	710.79	-77.78	6.00	7.00	0.00	0.00	0.50			
2	B	607.18	-36.66	6.00	248.00	0.00	0.00	0.50			
3	B	655.69	-36.59	6.00	204.00	0.00	0.00	0.50			
4	B	670.95	-37.45	6.00	291.00	0.00	0.00	0.50			
5	B	698.57	-33.21	6.00	273.00	0.00	0.00	0.50			
6	B	707.53	-48.40	6.00	0.00	0.00	0.00	0.50			
7	B	710.26	-115.84	6.00	358.00	0.00	0.00	0.50			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
8	B	690.84	-123.88	6.00	264.00	0.00	0.00	0.50			
9	B	672.88	-108.68	6.00	192.00	0.00	0.00	0.50			
10	B	666.37	-83.03	6.00	197.00	0.00	0.00	0.50			
11	B	635.36	-34.69	6.00	110.00	0.00	0.00	0.50			
12	B	658.42	-60.10	6.00	194.00	0.00	0.00	0.50			
13	B	710.60	-24.34	6.00	0.00	0.00	0.00	0.50			
14	B	660.97	-2.73	6.00	169.00	0.00	0.00	0.50			
15	B	664.88	16.24	6.00	270.00	0.00	0.00	0.50			
16	B	699.31	16.05	6.00	268.00	0.00	0.00	0.50			
17	B	711.08	-0.31	6.00	0.00	0.00	0.00	0.50			
18	B	648.64	30.85	6.00	191.00	0.00	0.00	0.50			
19	C	631.91	66.90	6.00	265.00	0.00	0.00	0.50			
20	B	639.47	50.13	6.00	355.00	0.00	0.00	0.50			

Illuminance (lux)

PSER 001



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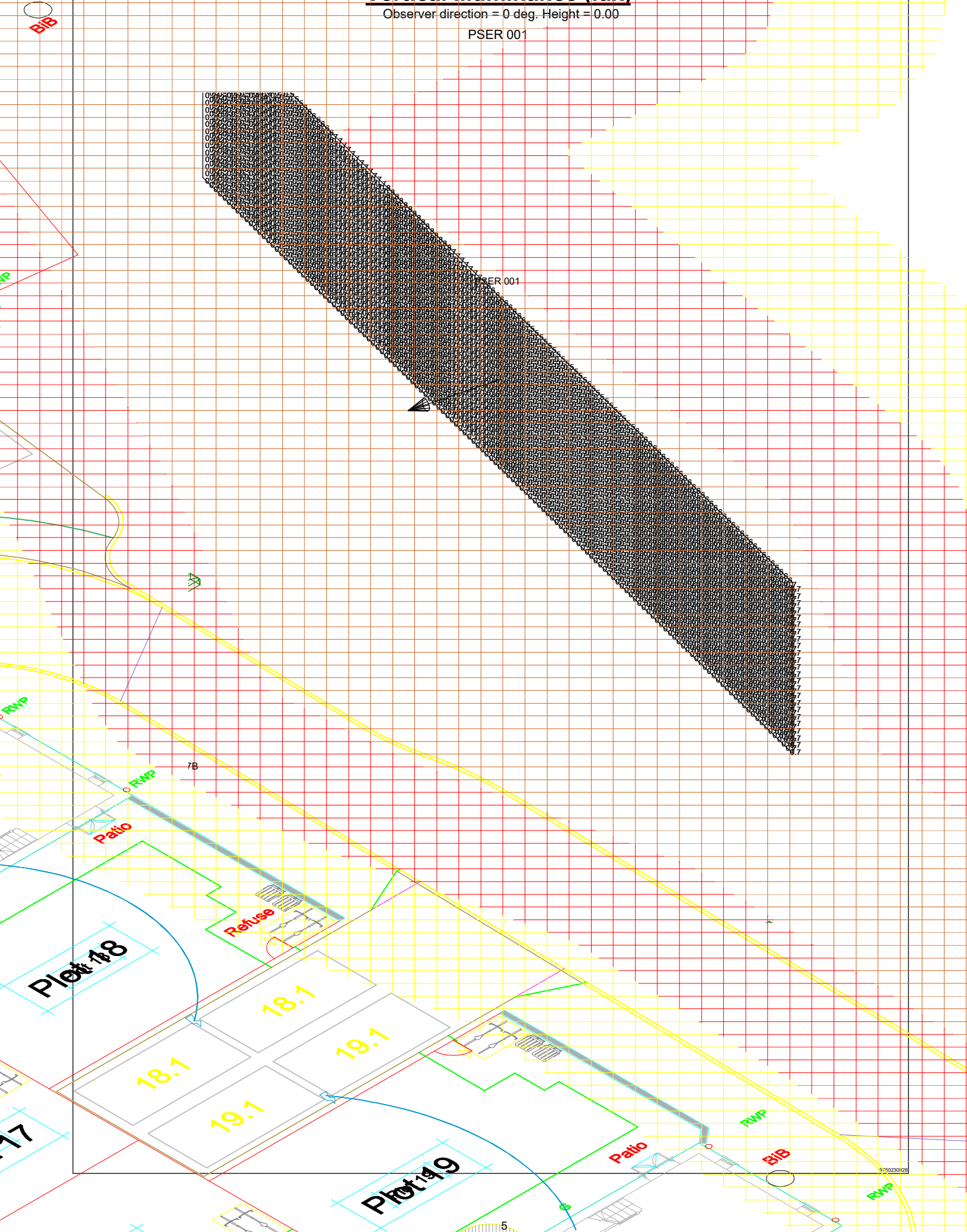
DESIGNER: DFL - UK
PROJECT NAME: FOLDERS GROVE PHASE 2



Vertical Illuminance (lux)

Observer direction = 0 deg. Height = 0.00

PSER 001



Illuminance (lux)

PSER 002

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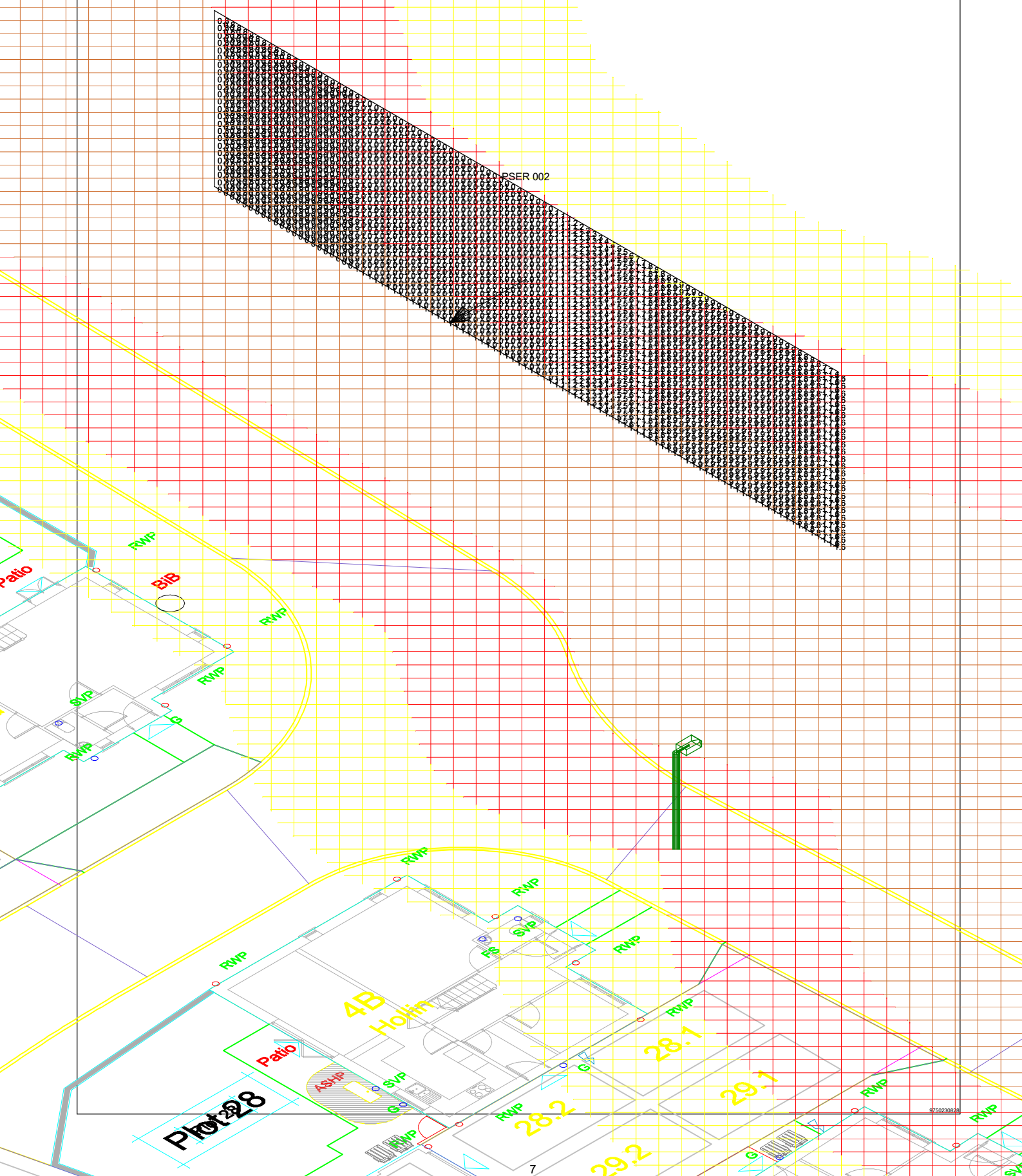
Results

Eav	0.26
Emin	0.01
E _{max}	1.01
Emin/E _{max}	0.01
Emin/Eav	0.06

Vertical Illuminance (lux)

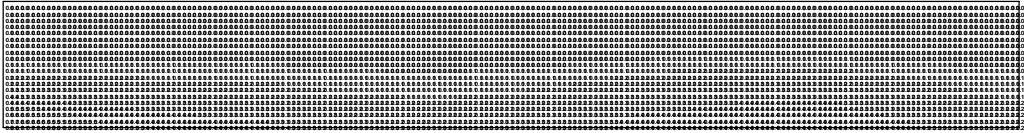
Observer direction = 0 deg. Height = 0.00

PSER 002



Illuminance (lux)

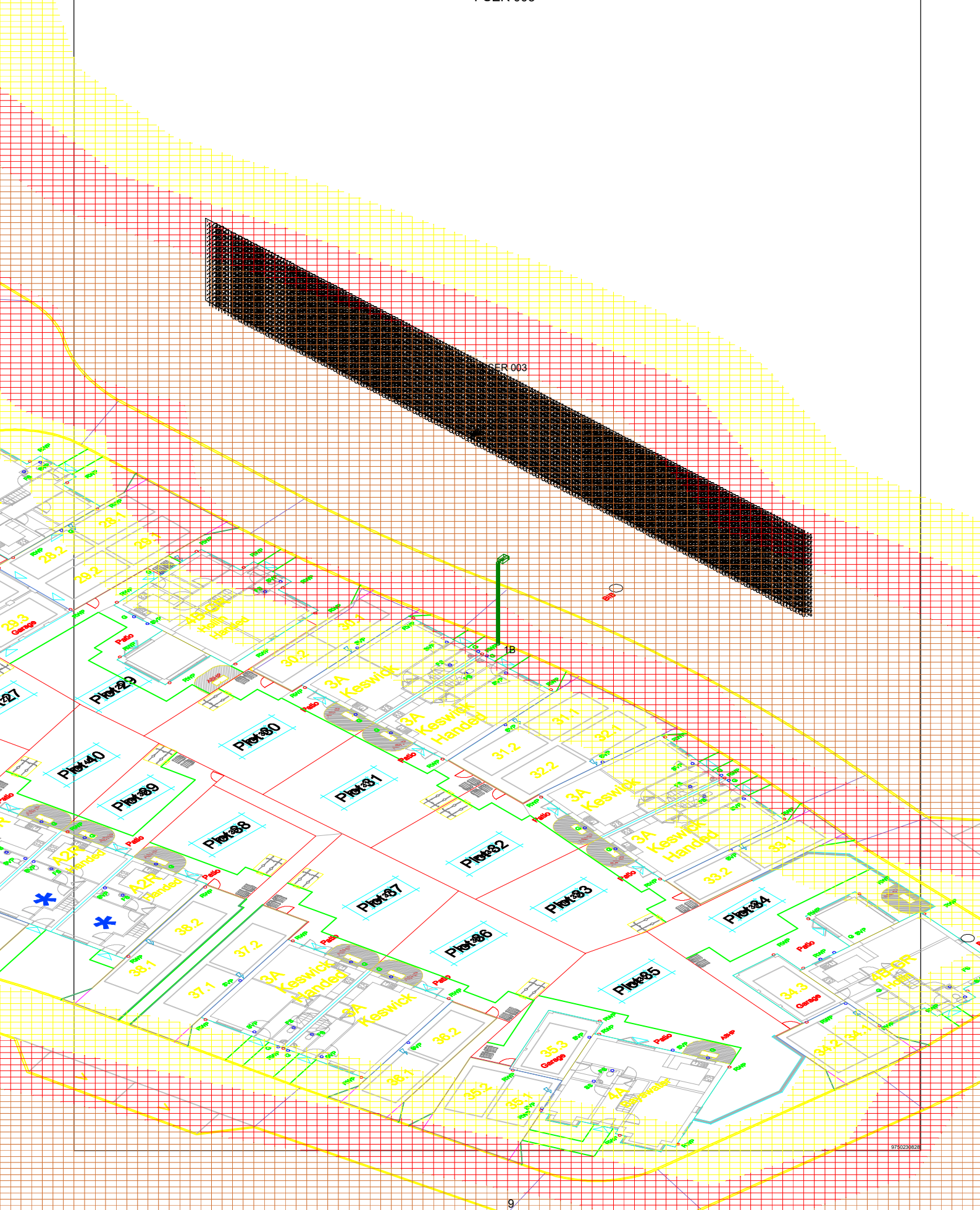
PSER 003



Results

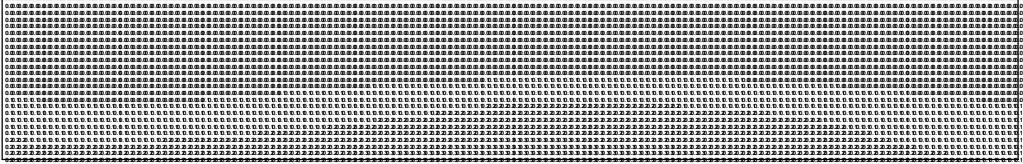
Eav	0.14
Emin	0.01
Emax	0.78
Emin/Emax	0.01
Emin/Eav	0.07

PSER 003



Illuminance (lux)

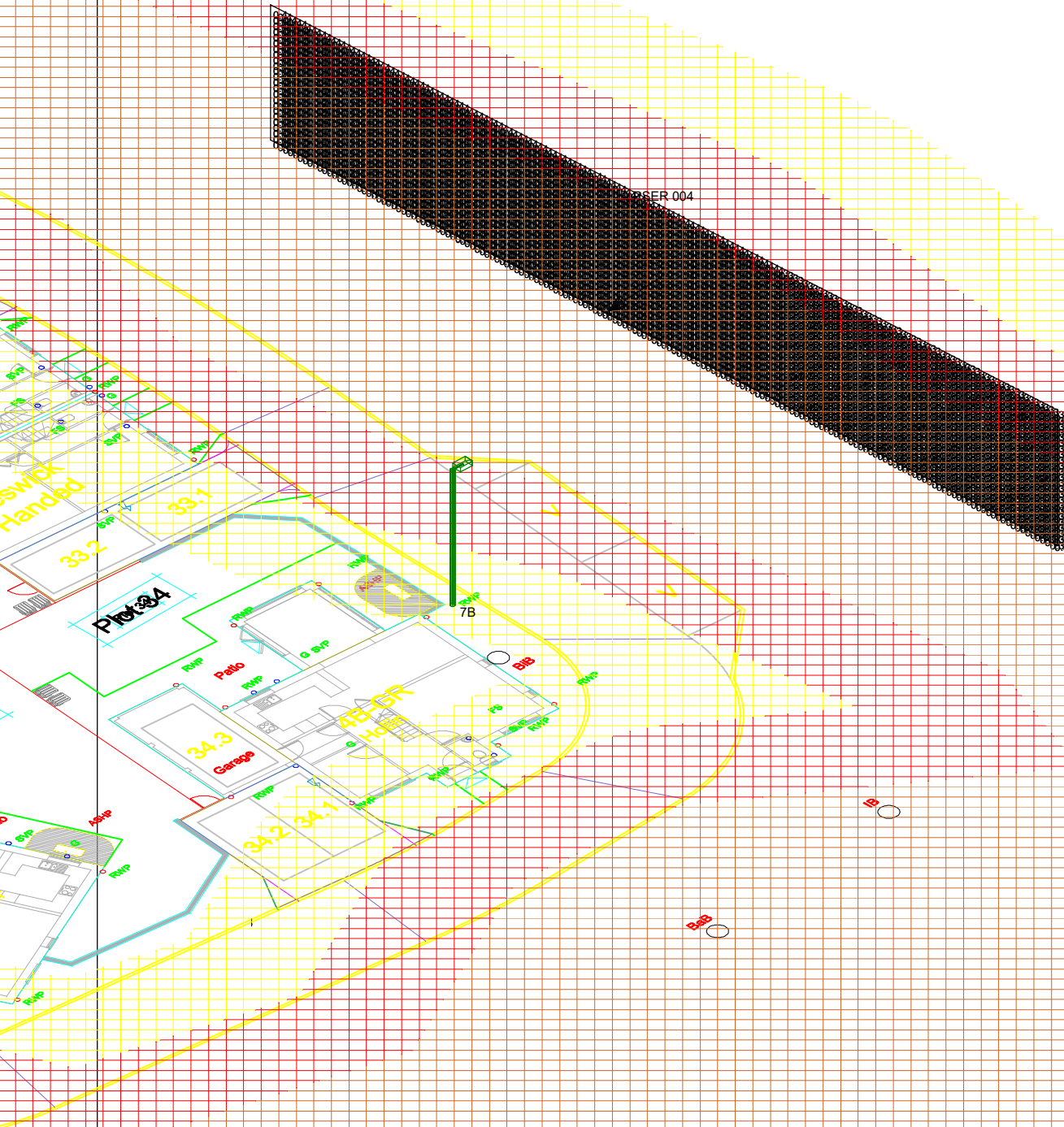
PSER 004



Results

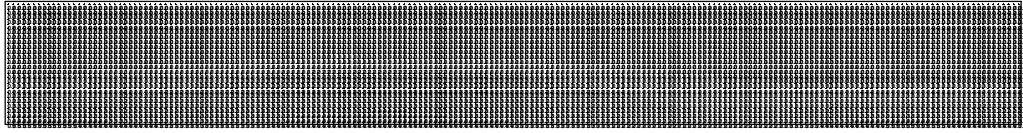
Eav	0.08
Emin	0.00
Emax	0.31
Emin/Emax	0.02
Emin/Eav	0.06

PSER 004



Illuminance (lux)

PSER 005



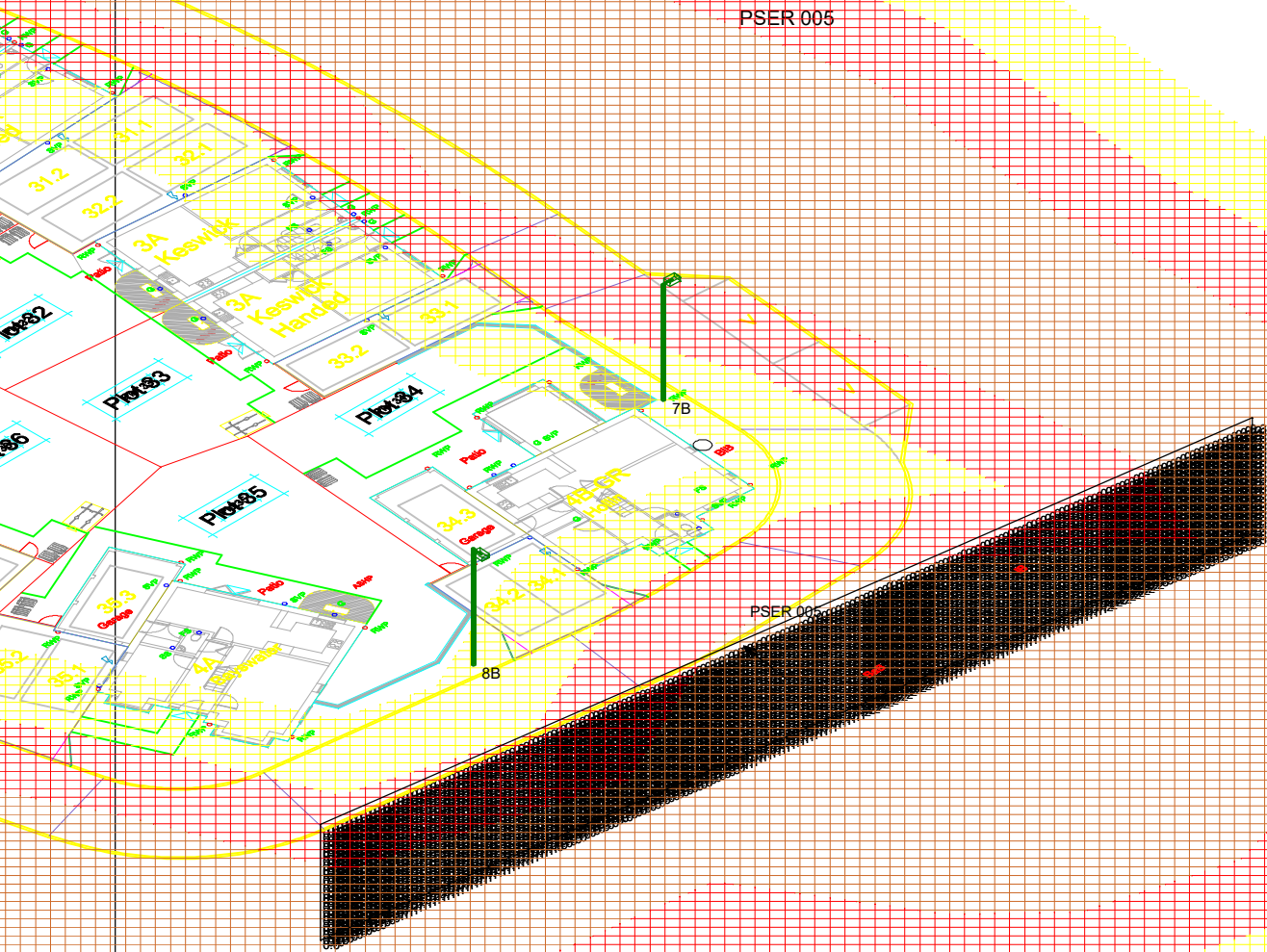
Results

Eav	0.11
Emin	0.01
E _{max}	0.52
Emin/E _{max}	0.01
Emin/Eav	0.05

Vertical Illuminance (lux)

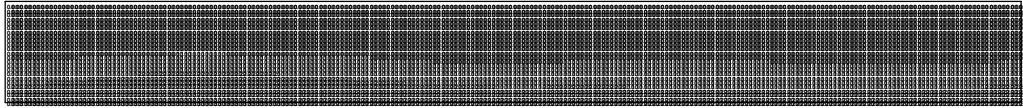
Observer direction = 0 deg. Height = 0.00

PSER 005



Illuminance (lux)

PSER 006



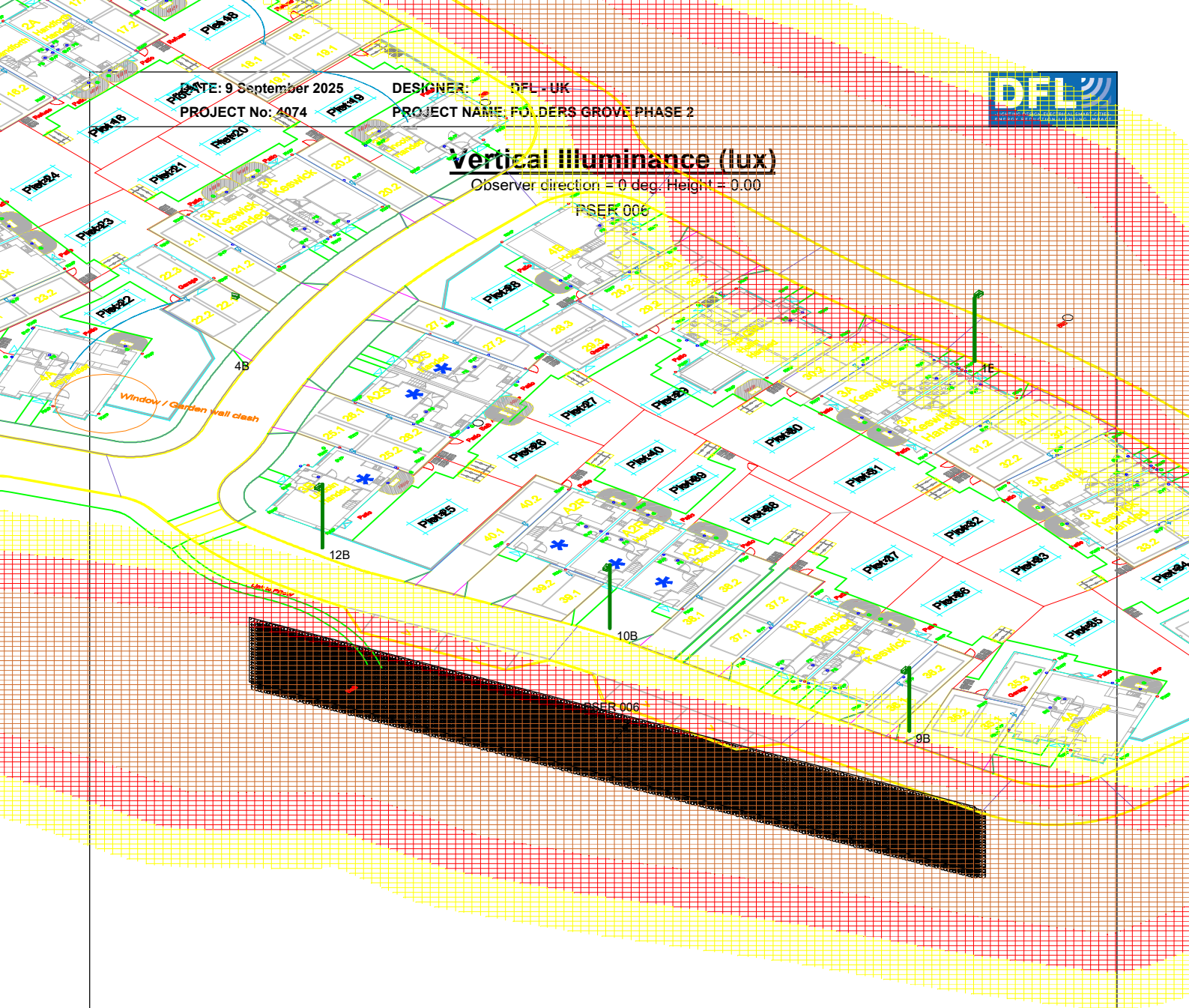
Results

Eav	0.08
Emin	0.01
Emax	0.35
Emin/Emax	0.02
Emin/Eav	0.10



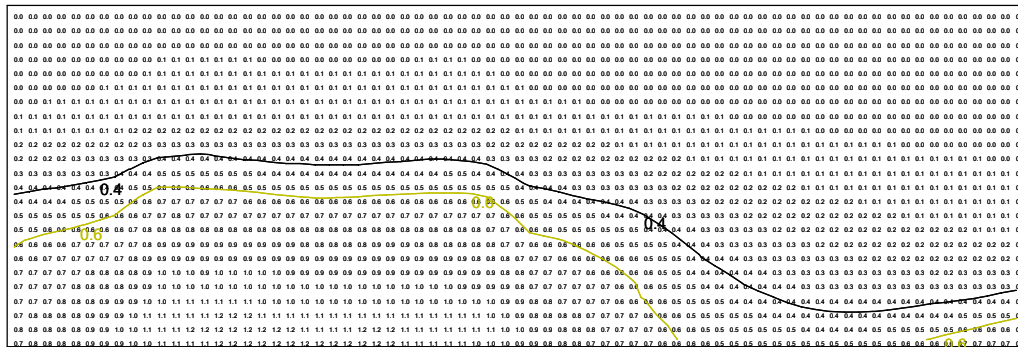
~~Observer direction = 0 deg. Height = 0.00~~

~~Observer direction = 0 deg. Height = 0.00~~



Illuminance (lux)

PSER 007



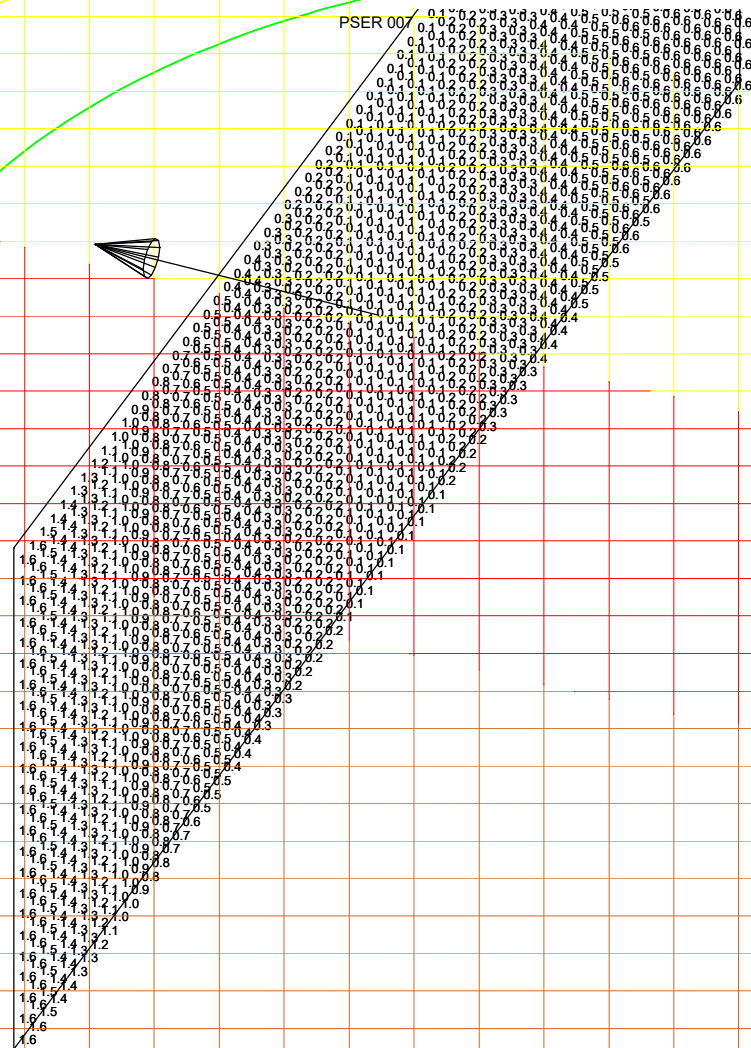
Results

Eav	0.36
Emin	0.01
E _{max}	1.24
Emin/E _{max}	0.00
Emin/Eav	0.02

Vertical Illuminance (lux)

~~Observer direction = 0 deg. Height = 0.00~~

PSER 007



Illuminance (lux)

PSER 008

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Results

Eav	0.10
Emin	0.01
E _{max}	0.37
Emin/E _{max}	0.03
Emin/Eav	0.10

IB

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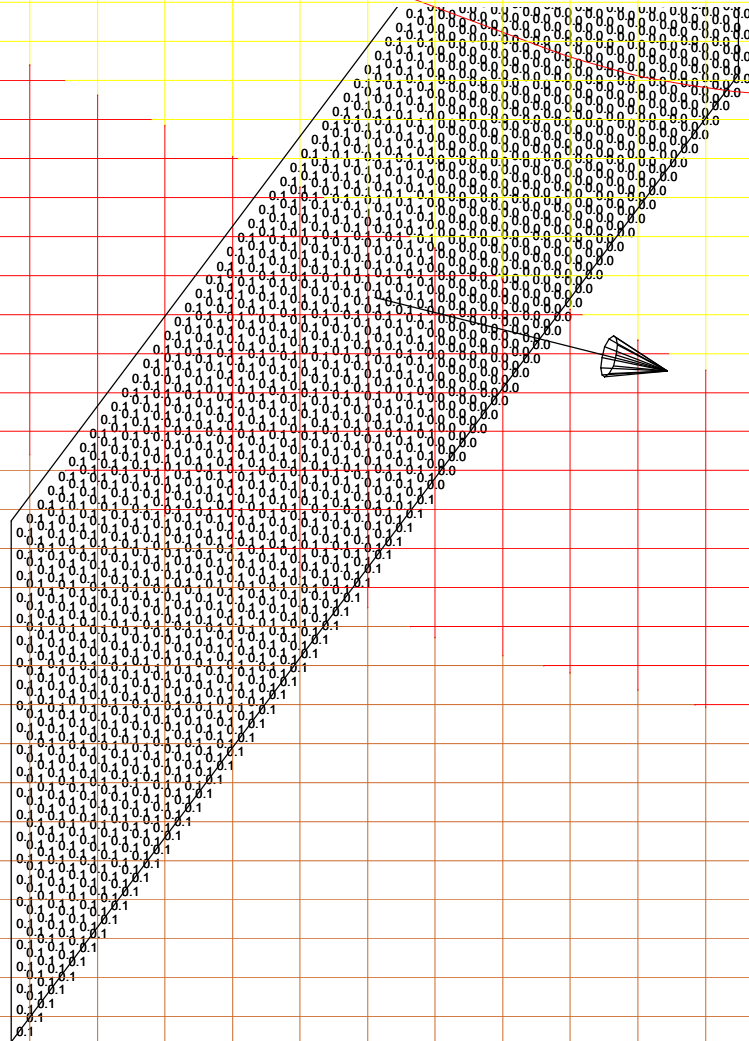
PROJECT NAME: FOLDERS GROVE PHASE 2



Vertical Illuminance (lux)

Observer direction = 0 deg. Height = 0.00

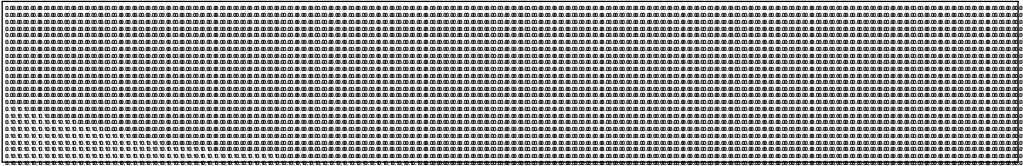
PSER 008



UDs

Illuminance (lux)

PSER 009



Results

Eav	0.02
Emin	0.01
Emax	0.13
Emin/Emax	0.04
Emin/Eav	0.28

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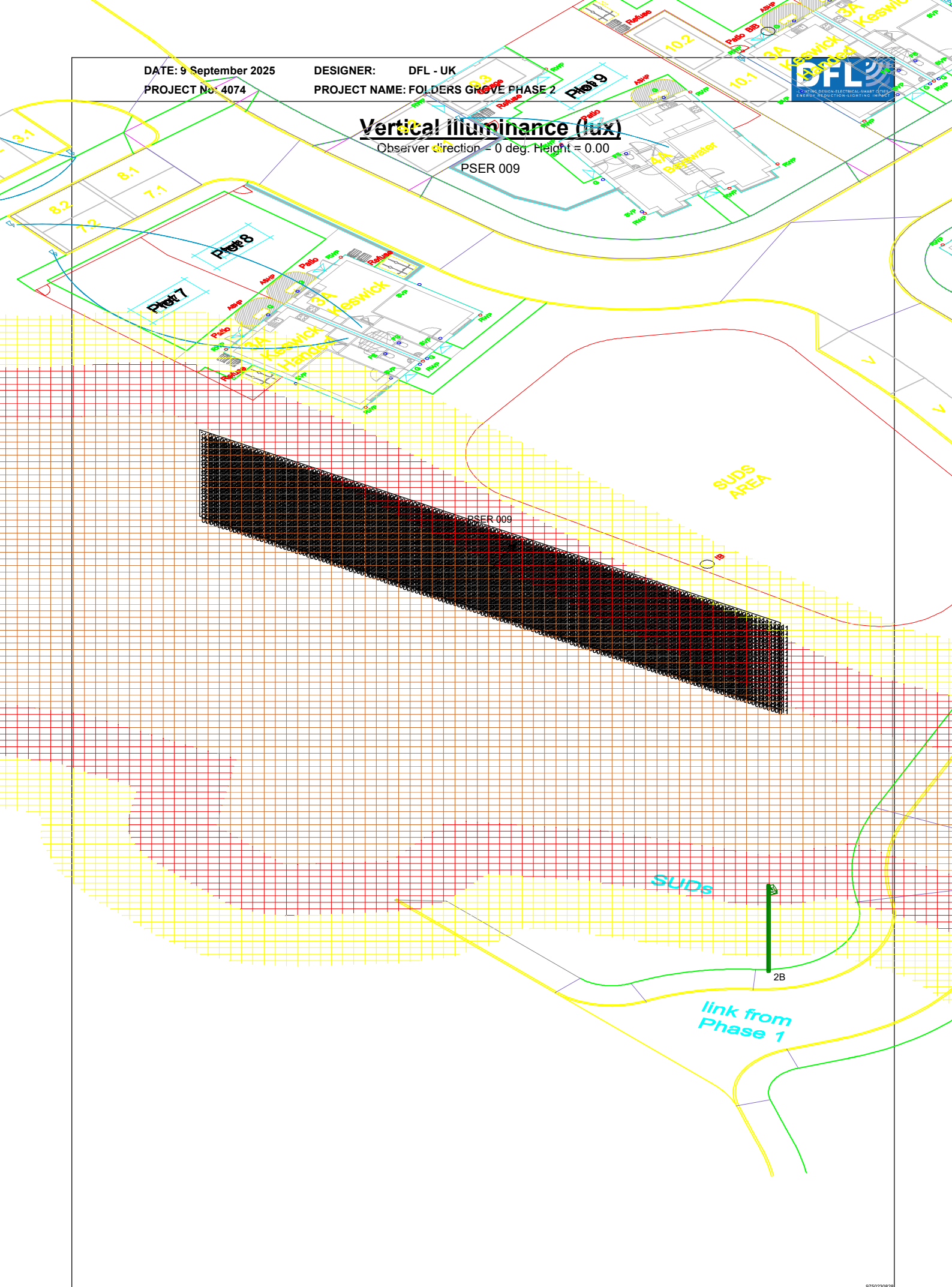
DESIGNER: DFL - UK
PROJECT NAME: FOLDERS GROVE PHASE 2



Vertical Illuminance (lux)

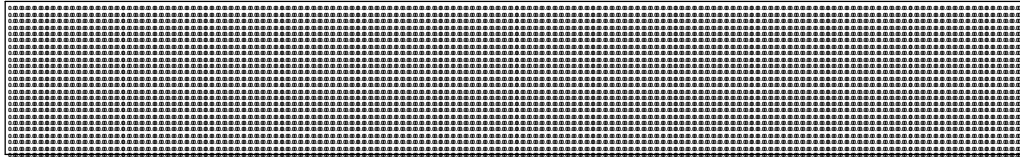
Observer direction = 0 deg. Height = 0.00

PSER 009



Illuminance (lux)

PSER 0010



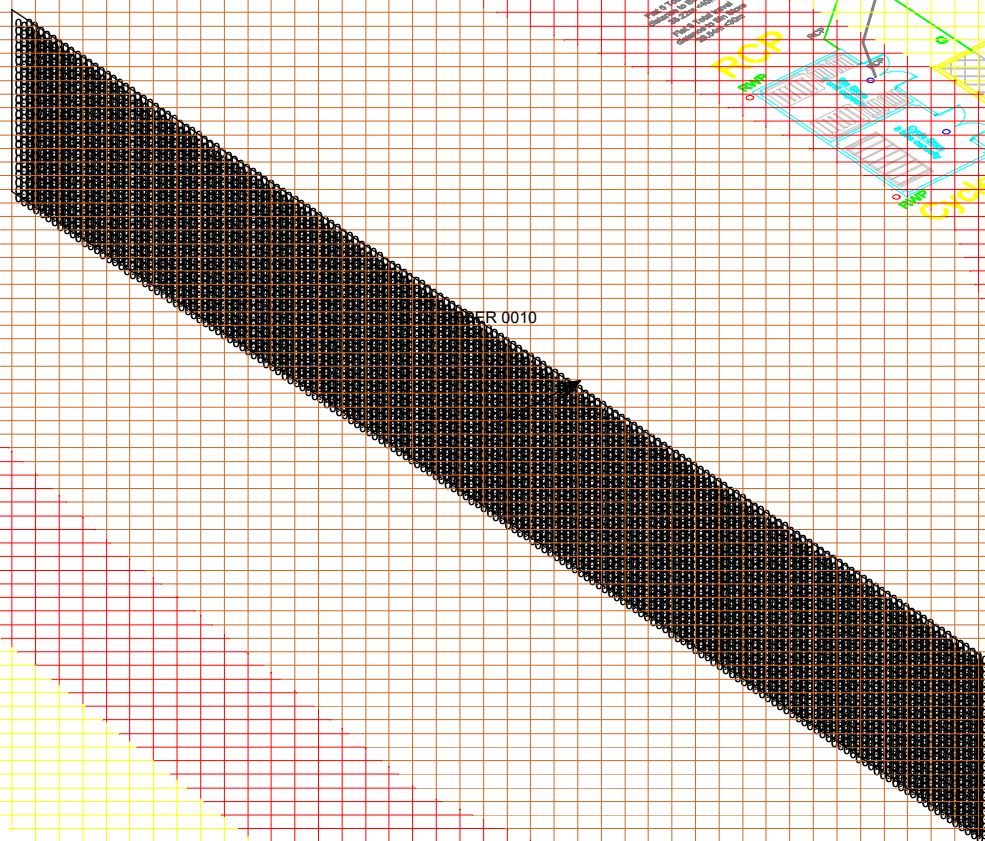
Results

Eav	0.01
Emin	0.00
Emax	0.04
Emin/Emax	0.11
Emin/Eav	0.31

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PSER 0010



Illuminance (lux)

PHAR 001 - (Outside Plot 19)

0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2
1.2	1.2	1.2	1.3	1.3	1.1	0.9	0.9	0.8	0.7	0.6	0.5	0.5	0.4
2.1	2.1	2.3	2.4	2.4	2.2	1.8	1.6	1.5	1.5	1.2	1.1	0.9	0.8
3.1	3.2	3.3	3.5	3.6	3.3	2.7	2.5	2.4	2.2	1.8	1.6	1.4	1.2
4.1	4.1	4.4	4.3	4.3	4.1	3.5	3.3	3.1	3.0	2.4	2.1	1.8	1.6
4.6	4.8	4.9	4.9	4.9	4.7	4.0	3.9	3.7	3.4	2.9	2.5	2.2	2.0
5.0	5.2	5.4	5.5	5.5	5.2	4.6	4.2	3.9	3.6	3.2	2.8	2.6	2.3
5.6	6.1	6.2	6.0	5.8	5.4	5.0	4.4	4.2	4.0	3.4	3.0	2.8	2.5
6.2	5.9	6.0	5.7	5.4	5.1	4.6	4.1	3.8	3.5	3.1	2.9	2.7	2.4
5.7	5.2	5.7	5.3	5.0	4.7	4.3	3.8	3.6	3.4	3.0	2.7	2.5	2.2
4.3	4.6	4.5	4.7	4.4	4.2	4.0	3.5	3.3	3.2	2.8	2.4	2.2	2.1
3.6	3.7	4.0	4.0	4.0	3.9	3.6	3.2	3.2	3.1	2.6	2.3	2.1	1.9
3.0	3.3	3.1	3.4	3.5	3.4	3.3	2.9	2.7	2.9	2.5	2.0	1.9	1.8
3.0	2.8	3.0	2.9	3.0	3.0	2.9	2.5	2.5	2.5	2.1	1.8	1.7	1.6
2.1	2.5	2.4	2.5	2.6	2.6	2.4	2.2	2.4	2.5	1.9	1.7	1.6	1.5
1.9	2.2	2.0	2.1	2.2	2.2	2.3	2.3	2.0	2.1	1.8	1.5	1.5	1.3
1.7	1.9	1.9	1.9	2.0	2.0	1.9	1.8	1.9	1.8	1.6	1.4	1.2	1.3
1.6	1.7	1.7	1.7	1.8	1.8	1.7	1.6	1.7	1.8	1.4	1.3	1.2	1.1
1.4	1.5	1.5	1.5	1.6	1.6	1.5	1.4	1.5	1.7	1.3	1.1	1.1	1.1
1.3	1.3	1.3	1.4	1.5	1.5	1.4	1.3	1.3	1.5	1.3	1.0	1.0	1.0
1.2	1.2	1.2	1.2	1.3	1.4	1.3	1.2	1.2	1.2	1.1	1.0	1.0	0.9

Results

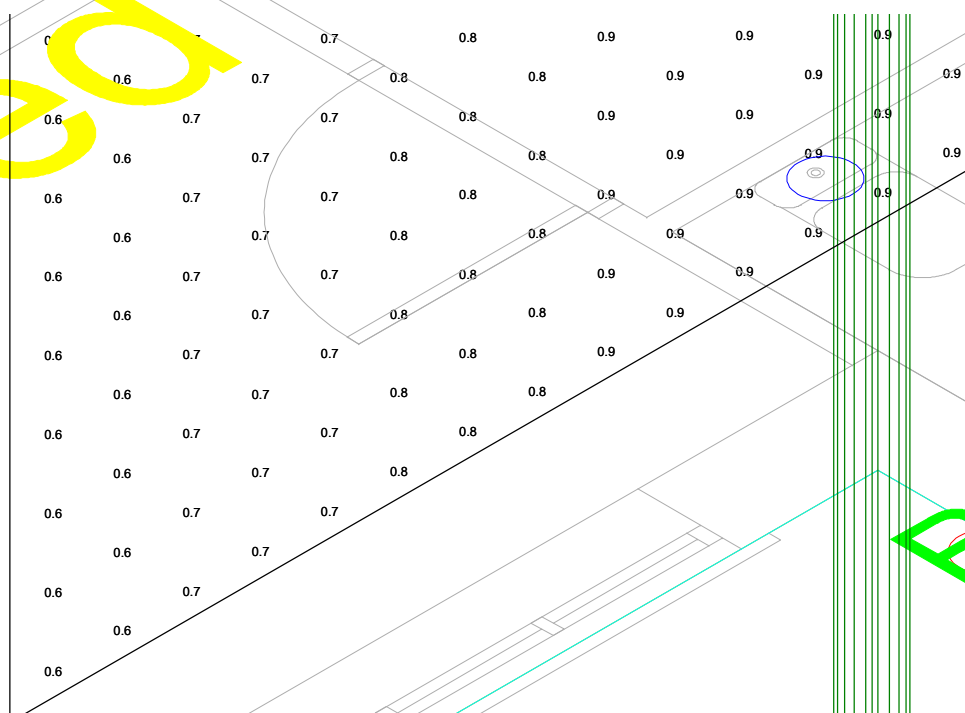
Eav	2.24
Emin	0.05
Emax	6.18
Emin/Emax	0.01
Emin/Eav	0.02

DESIGNER: DFL - UK
PROJECT NAME: FOLDERS GROVE PHASE 2



Observer direction = 0 deg. Height = 0.00

PHAR 001 - (Outside Plot 19)



A 3D perspective diagram of a rectangular prism. A vertical line is drawn on the front face. To the right of this line, there are two columns of numbers. The first column contains the values 0.6, 0.6, 0.6, 0.6, and 0.6 from top to bottom. The second column contains the values 0.7, 0.7, 0.7, 0.7, and 0.7 from top to bottom. The numbers are aligned with the horizontal edges of the prism's faces.

SVA



Illuminance (lux)

PHAR 002 - (Outside Plot 30)

0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.7	0.8
0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	1.0	1.2	1.4	1.8	2.0	
0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.5	0.7	1.0	1.3	1.8	2.4	3.0	3.9	4.8	5.3	7.2	7.4	
0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.5	0.6	0.8	1.0	1.3	1.7	2.2	2.9	3.7	4.5	5.6	7.3	9.2	10	13	13	
0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.9	1.1	1.3	1.7	2.1	2.6	3.2	4.1	5.2	6.4	7.9	9.7	12	13	16	16	
0.4	0.4	0.5	0.6	0.8	0.9	1.1	1.3	1.5	1.8	2.2	2.7	3.3	4.0	4.9	6.0	7.5	8.7	11	12	14	17	18	
0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.5	1.8	2.1	2.5	3.0	3.6	4.3	5.0	5.6	6.6	7.7	9.1	11	12	15	16	
0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.7	1.9	2.2	2.5	2.8	3.2	3.9	4.3	4.9	5.5	6.7	8.0	9.8	11	12	12	
0.8	0.9	1.0	1.1	1.2	1.3	1.5	1.7	1.8	2.0	2.3	2.6	2.8	3.3	3.8	4.3	4.9	5.5	6.7	7.9	8.6	9.5	9.1	
0.8	0.9	1.0	1.1	1.2	1.2	1.3	1.5	1.6	1.8	2.0	2.3	2.6	2.8	3.3	3.4	4.1	4.5	5.5	6.7	6.8	7.2	7.1	
0.8	0.9	0.9	1.0	1.0	1.1	1.2	1.3	1.5	1.7	1.8	2.0	2.1	2.4	2.7	3.0	3.3	3.5	4.4	5.4	5.2	5.6	5.4	
0.7	0.8	0.8	0.9	1.0	1.0	1.1	1.3	1.3	1.4	1.5	1.7	1.9	2.0	2.3	2.4	2.6	2.8	3.5	4.5	4.1	4.5	4.4	
0.7	0.7	0.8	0.9	1.0	1.0	1.0	1.1	1.2	1.2	1.4	1.6	1.6	1.9	1.8	1.9	2.1	2.4	3.0	3.2	3.4	3.8	3.3	
0.7	0.8	0.9	1.0	1.0	1.0	1.0	1.1	1.2	1.2	1.3	1.4	1.3	1.5	1.6	1.8	1.9	2.1	2.4	2.7	2.9	2.9	2.7	
0.8	0.9	1.0	1.0	1.1	1.0	1.1	1.2	1.3	1.2	1.3	1.3	1.4	1.5	1.6	1.7	1.8	2.0	2.1	2.3	2.4	2.4	2.3	
0.9	1.0	1.1	1.1	1.1	1.1	1.2	1.3	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.8	1.9	2.0	2.0	2.1	2.1	2.1	
1.0	1.1	1.1	1.2	1.2	1.3	1.4	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	1.9	
1.1	1.2	1.2	1.3	1.4	1.4	1.4	1.5	1.6	1.6	1.7	1.8	1.9	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	
1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.7	1.8	1.9	1.9	2.0	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.1	2.0	2.0	
1.2	1.3	1.4	1.4	1.4	1.5	1.6	1.7	1.8	1.8	1.9	2.0	2.0	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.0	2.0	1.9	
1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.7	1.8	1.8	1.9	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	1.9	
1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.8	1.9	1.9	2.0	2.0	2.0	2.0	2.1	2.0	2.0	2.0	1.9	1.9	1.8	

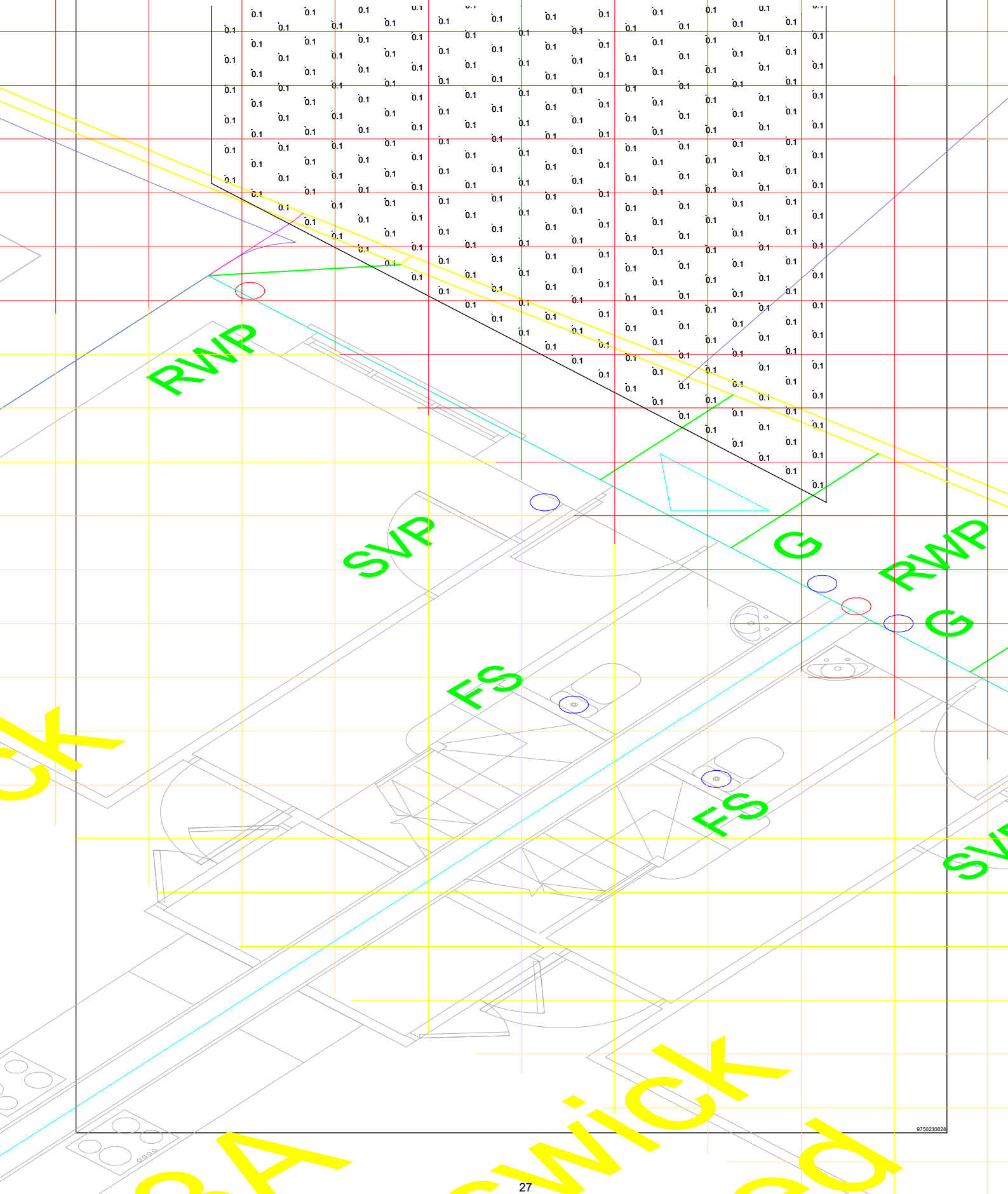
Results

Eav	2.23
Emin	0.01
Emax	18.32
Emin/Emax	0.00
Emin/Eav	0.00

Vertical Illuminance (lux)

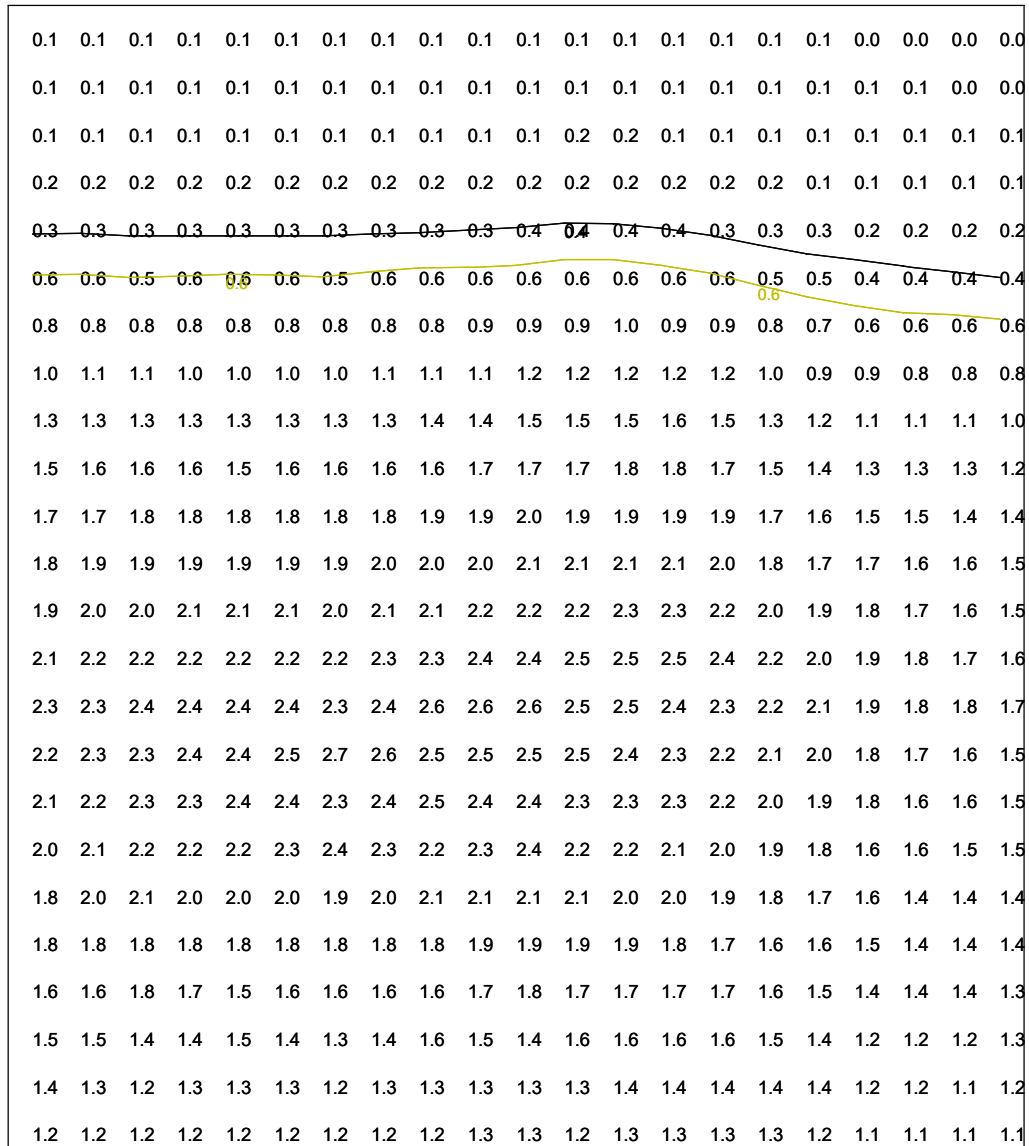
Observer direction = 0 deg. Height = 0.00

PHAR 002 - (Outside Plot 30)



Illuminance (lux)

PHAR 003 - (Outside Plot 38)



Results

Eav	1.32
Emin	0.03
Emax	2.67
Emin/Emax	0.01
Emin/Eav	0.02

DATE: 9 September 2025
PROJECT No: 4074

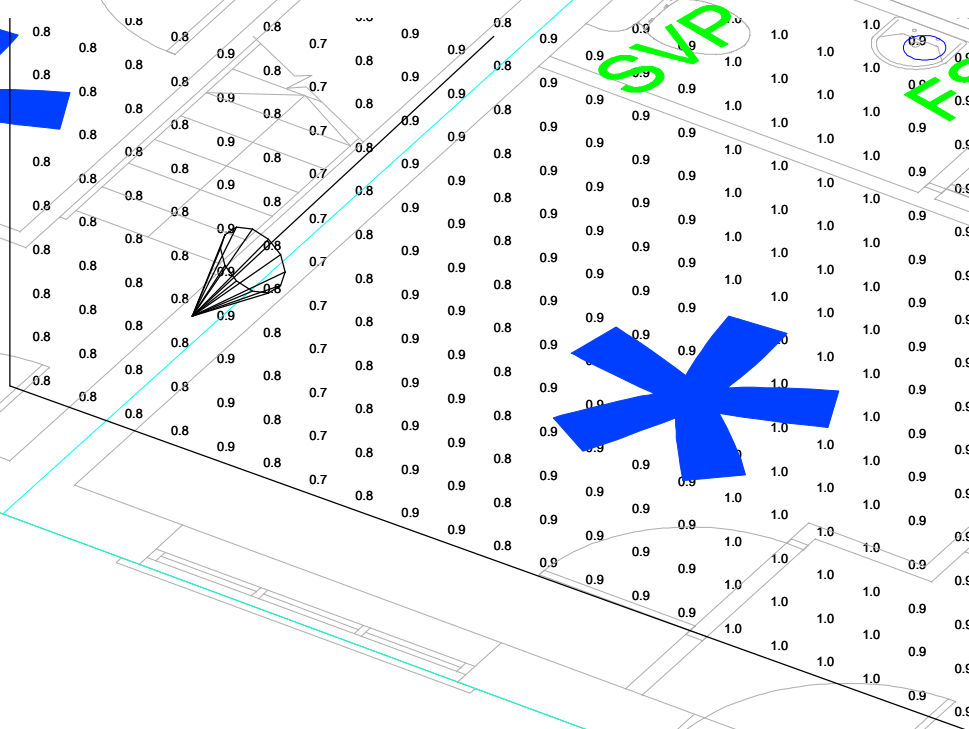
DESIGNER: DFL - UK
PROJECT NAME: FOLDERS GROVE PHASE 2



Vertical Illuminance (lux)

Observer direction = 0 deg. Height = 0.00

PHAR 003 - (Outside Plot 38)



Illuminance (lux)

PHAR 004 - (Outside Plot 12)

0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1
1.5	1.3	1.1	0.9	0.7	0.6	0.5	0.4	0.3	0.2	0.2
3.1	2.4	2.1	1.8	1.6	1.3	1.0	0.8	0.6	0.5	0.4
4.5	3.6	3.1	2.6	2.2	1.9	1.6	1.3	1.1	0.9	0.8
5.5	4.5	4.0	3.4	2.9	2.5	2.0	1.7	1.5	1.2	1.0
6.0	5.2	4.5	3.9	3.3	2.8	2.4	2.1	1.8	1.6	1.3
5.6	4.9	4.4	3.9	3.5	3.1	2.7	2.3	2.0	1.8	1.5
5.0	4.3	4.0	3.6	3.1	2.8	2.6	2.3	2.1	1.9	1.6
4.7	4.0	3.4	3.1	2.8	2.6	2.4	2.2	1.9	1.7	1.6
4.3	3.4	3.1	2.8	2.6	2.3	2.1	1.9	1.8	1.6	1.4
3.5	2.9	2.6	2.4	2.3	2.1	1.9	1.8	1.6	1.4	1.3
3.3	2.5	2.3	2.2	1.9	1.8	1.7	1.6	1.4	1.4	1.2
2.6	2.2	1.9	1.9	1.7	1.7	1.5	1.4	1.3	1.2	1.1
2.3	1.8	1.8	1.6	1.5	1.4	1.3	1.3	1.2	1.1	1.0
2.1	1.5	1.4	1.4	1.3	1.2	1.3	1.1	1.1	1.0	0.9
1.7	1.4	1.3	1.2	1.1	1.1	1.0	1.0	1.0	0.9	0.9
1.5	1.3	1.2	1.1	1.1	1.0	0.9	0.9	0.8	0.9	0.8
1.3	1.2	1.1	1.1	1.0	1.0	0.9	0.8	0.8	0.7	0.8
1.2	1.2	1.1	1.1	1.0	1.0	0.9	0.9	0.8	0.8	0.7
1.2	1.1	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.8	0.8
1.2	1.2	1.1	1.1	1.1	1.0	1.0	1.0	1.0	0.9	0.8

Results

Eav	1.54
Emin	0.03
Emax	6.02
Emin/Emax	0.00
Emin/Eav	0.02

Vertical Illuminance (lux)

Observer direction = 0 deg. Height = 0.00

PHAR 004 - (Outside Plot 12)

