

DATE: 28 July 2026
DESIGNER: SHD Lighting Consultancy Limited
PROJECT No: SHD2326
PROJECT NAME: Glen Dimplex



CAD layout reference: 25053-VIM_2026-07-23

Lighting classification: P4 (BS 5489-1: 2020, Table A.5)

Minimum maintained average illuminance (Eav): >5.00 lux <7.50 lux

Minimum illuminance (Emin): >1.00 lux

Lighting uniformity (Emin/Eav): >0.20 (20%)

Designed to P3, using CMS dimming to achieve class P4

Outdoor Lighting Report

PREPARED BY: SHD Lighting Consultancy Ltd
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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: Whole Area	347835.88	391384.44	359.30	280.35	1.50	1.50
2	Grid 2: Lighting Class P4	347844.36	391540.31	27.00	120.00	1.50	1.50
3	Grid 3: Lighting Class P4	347882.67	391588.83	289.00	30.00	1.50	1.50
4	Grid 4: Lighting Class P4	347860.19	391531.54	289.00	30.00	1.50	1.50
5	Grid 5: Lighting Class P4	348116.60	391409.11	27.00	120.00	1.50	1.50
6	Grid 6: Lighting Class P4	347998.32	391613.37	150.00	30.00	1.50	1.50
7	Grid 7: Lighting Class P4	347927.58	391597.99	22.50	51.00	1.50	1.50
8	Grid 8: Lighting Class P4	347990.26	391509.11	22.00	33.00	1.00	1.00
9	Grid 9: Lighting Class P4	348022.24	391495.76	22.00	33.00	1.00	1.00

Luminaires

Luminaire A Data

Supplier	Knowsley Council
Type	[A] ISARO PRO S - 24 x WW 3000K LED CR I70 700mA - EWR Optic
Lamp(s)	LEDs
LampFlux(klm)/Colour	6.74 3000/70
File Name	A IP24L70EWR730G36_DC.LDT
Maintenance Factor	0.84
Lum. Int. Class	G3
No. in Project	31

Luminaire B Data

Supplier	Knowsley Council
Type	[A] ISARO PRO S - 24 x WW 3000K LED CR I70 700mA - EWR Optic
Lamp(s)	LEDs
LampFlux(klm)/Colour	6.74 3000/70
File Name	A IP24L70EWR730G36_DC.LDT
Maintenance Factor	0.84
Lum. Int. Class	G3
No. in Project	2

Layout

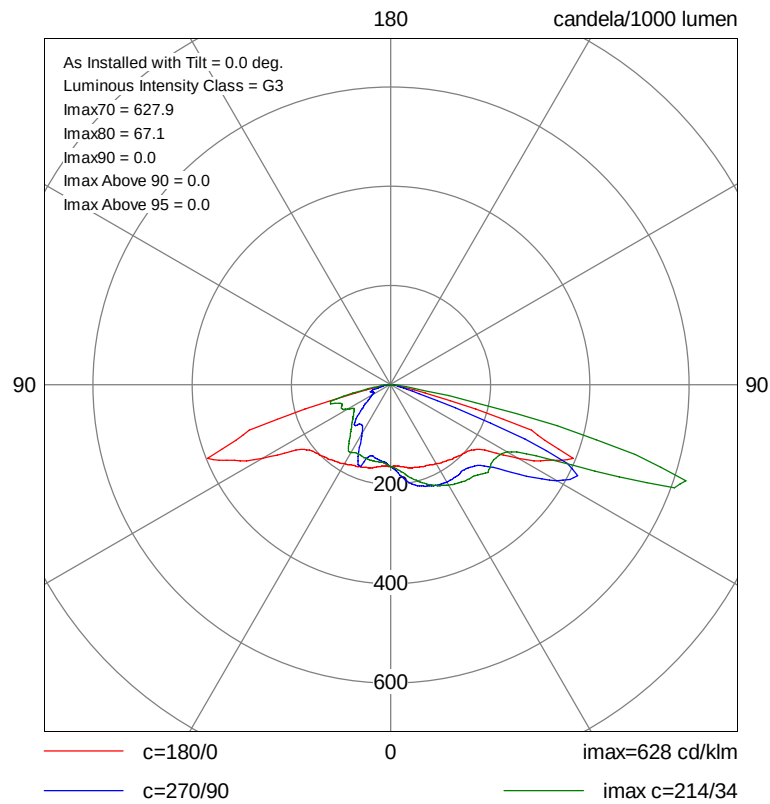
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
1	A	347880.49	391641.60	6.00	351.00	0.00	0.00	0.40	60%			
2	A	347872.91	391611.13	6.00	345.00	0.00	0.00	0.40	60%			
3	A	347863.09	391582.20	6.00	338.00	0.00	0.00	0.40	60%			
4	A	347885.07	391598.39	6.00	66.00	0.00	0.00	0.40	60%			
5	A	347854.32	391546.73	6.00	38.00	0.00	0.00	0.40	60%			
6	A	347923.54	391592.64	6.00	249.00	0.00	0.00	0.40	60%			
7	A	347962.31	391577.04	6.00	250.00	0.00	0.00	0.40	60%			
8	A	347991.87	391555.36	6.00	69.00	0.00	0.00	0.40	60%			
9	A	348027.41	391540.97	6.00	69.00	0.00	0.00	0.40	60%			
10	A	348065.62	391535.21	6.00	247.00	0.00	0.00	0.40	60%			
11	A	348099.24	391512.02	6.00	73.00	0.00	0.00	0.40	60%			
12	A	348134.31	391507.58	6.00	250.00	0.00	0.00	0.40	60%			

Layout Continued

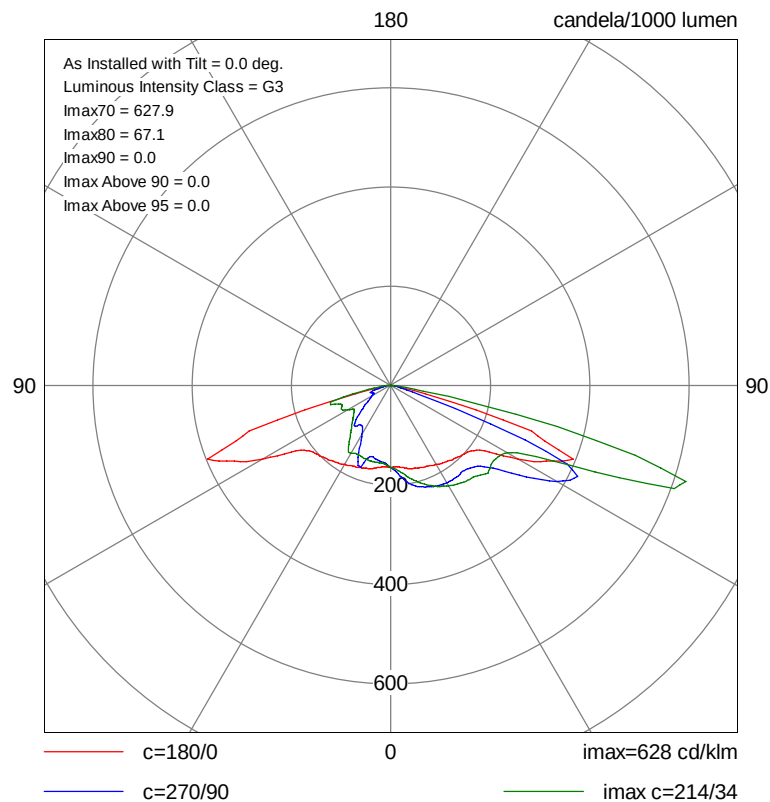
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Dimmed to	Target X	Target Y	Target Z
13	A	348034.66	391612.28	6.00	258.00	0.00	0.00	0.40	60%			
14	A	347881.84	391533.00	6.00	68.00	0.00	0.00	0.40	60%			
15	A	347916.98	391518.64	6.00	69.00	0.00	0.00	0.40	60%			
16	A	347950.00	391515.11	6.00	244.00	0.00	0.00	0.40	60%			
17	A	347978.99	391493.63	6.00	70.00	0.00	0.00	0.40	60%			
18	A	348007.25	391482.09	6.00	67.00	0.00	0.00	0.40	60%			
19	A	348042.55	391467.94	6.00	69.00	0.00	0.00	0.40	60%			
20	A	348073.49	391455.41	6.00	70.00	0.00	0.00	0.40	60%			
21	A	348106.61	391442.18	6.00	67.00	0.00	0.00	0.40	60%			
22	A	348139.31	391440.01	6.00	292.00	0.00	0.00	0.40	60%			
23	A	348162.64	391498.41	6.00	297.00	0.00	0.00	0.40	60%			
24	A	348150.97	391468.04	6.00	341.00	0.00	0.00	0.40	60%			
25	A	348131.87	391412.62	6.00	338.00	0.00	0.00	0.40	60%			
26	A	347951.59	391635.64	6.00	261.00	0.00	0.00	0.40	60%			
27	A	348013.80	391622.06	6.00	4.00	0.00	0.00	0.40	60%			
28	A	348064.07	391593.21	6.00	70.00	0.00	0.00	0.40	60%			
29	A	348119.50	391581.39	6.00	214.00	0.00	0.00	0.40	60%			
30	A	348094.63	391580.85	6.00	69.00	0.00	0.00	0.40	60%			
31	A	347943.87	391601.28	6.00	156.00	0.00	0.00	0.40	60%			
32	B	348007.31	391520.20	6.00	335.00	0.00	0.00	0.40	50%			
33	B	348040.72	391506.90	6.00	158.00	0.00	0.00	0.40	50%			

Polar Diagrams

Luminaire A [A] ISARO PRO S - 24 x WW 3000K LED CRI70 700mA - EWR Optic



Luminaire B [A] ISARO PRO S - 24 x WW 3000K LED CRI70 700mA - EWR Optic



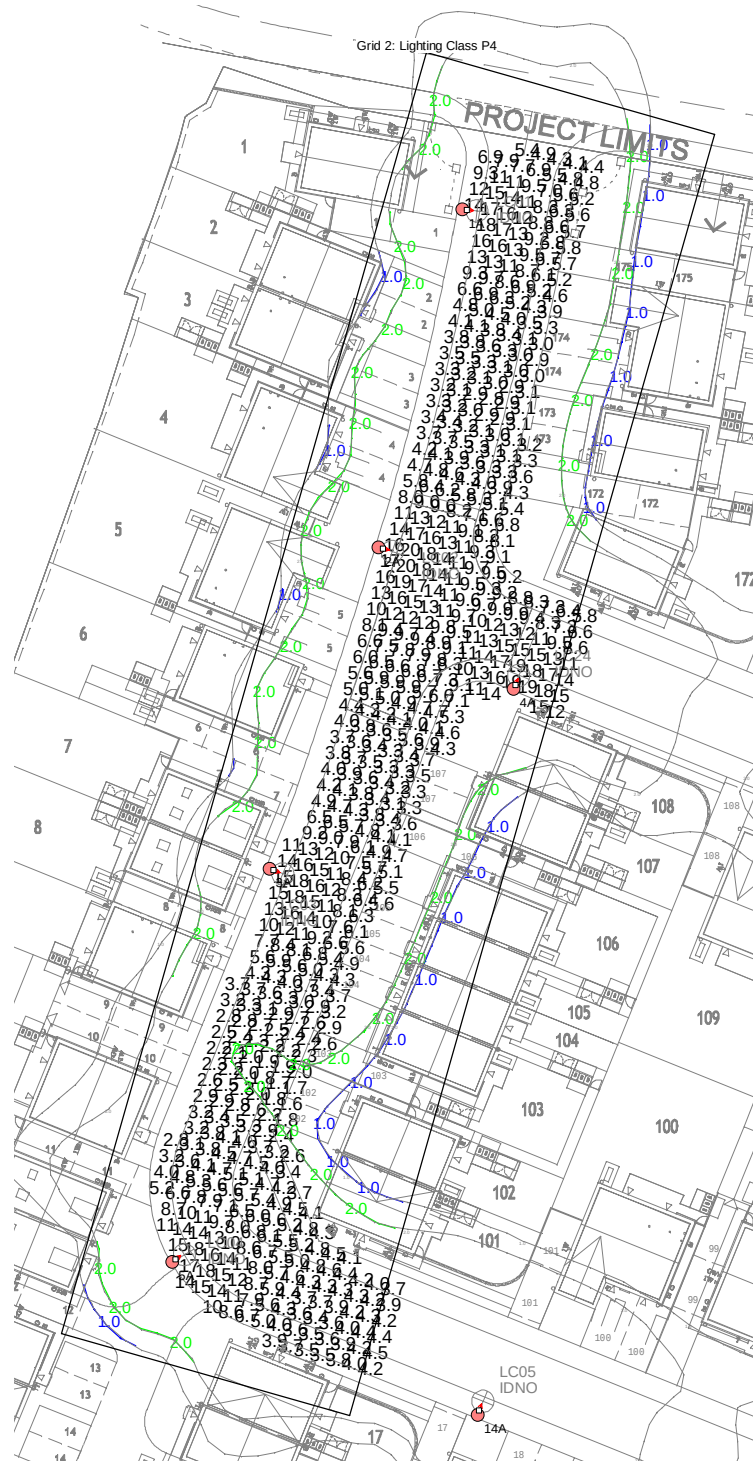
Horizontal Illuminance (lux)

Grid 1: Whole Area



Horizontal Illuminance (lux)

Grid 2: Lighting Class P4



Results

Eav	6.94
Emin	1.61
Emax	20.09
Emin/Emax	0.08
Emin/Eav	0.23

Horizontal Illuminance (lux)

Grid 3: Lighting Class P4

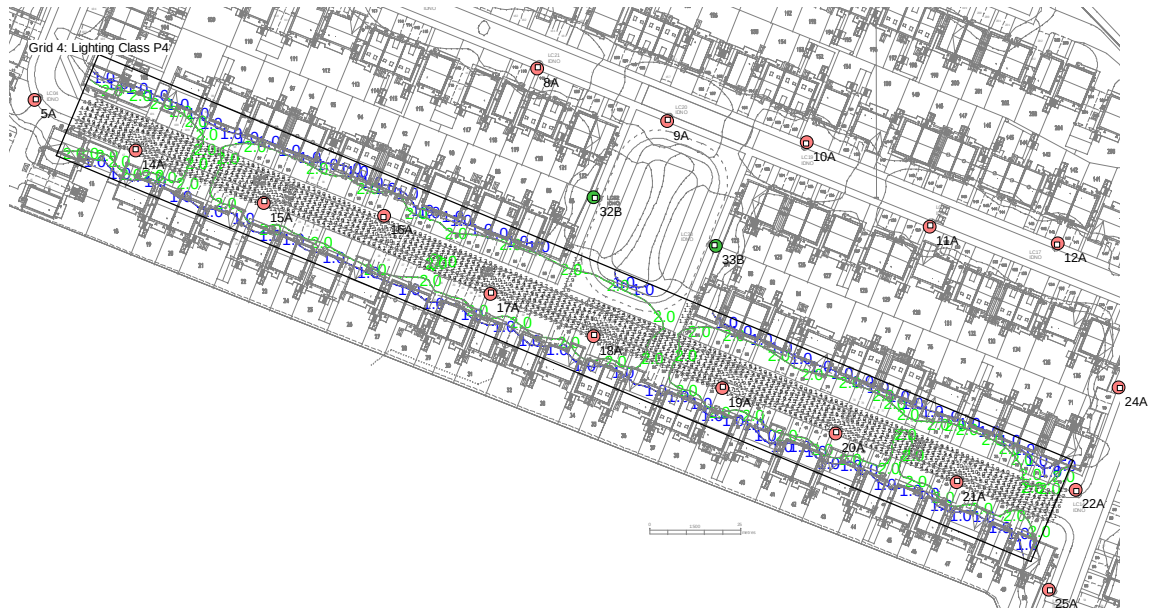


Results

Eav	5.00
Emin	1.06
Emax	18.50
Emin/Emax	0.06
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 4: Lighting Class P4

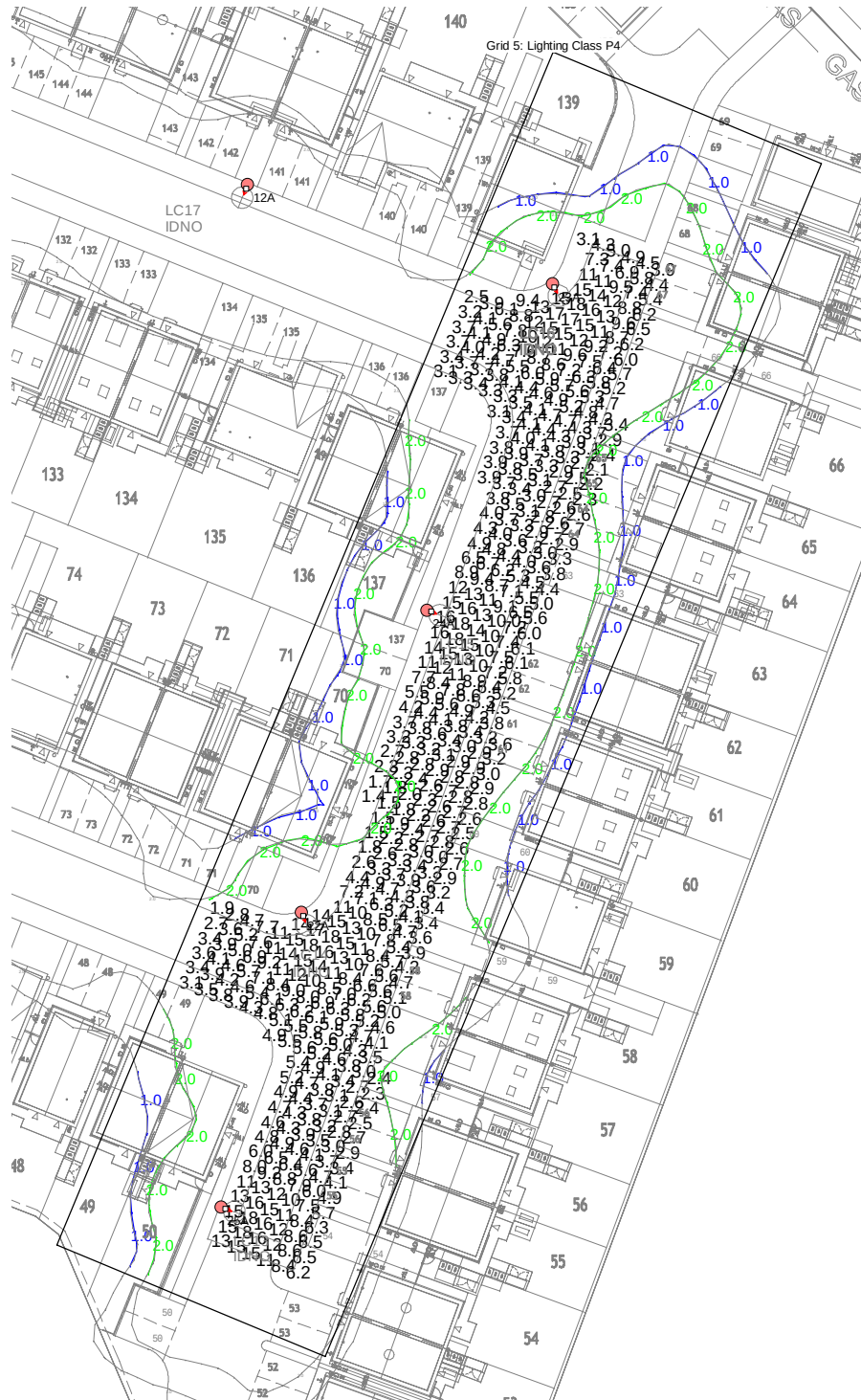


Results

Eav	5.39
Emin	1.09
Emax	18.15
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 5: Lighting Class P4

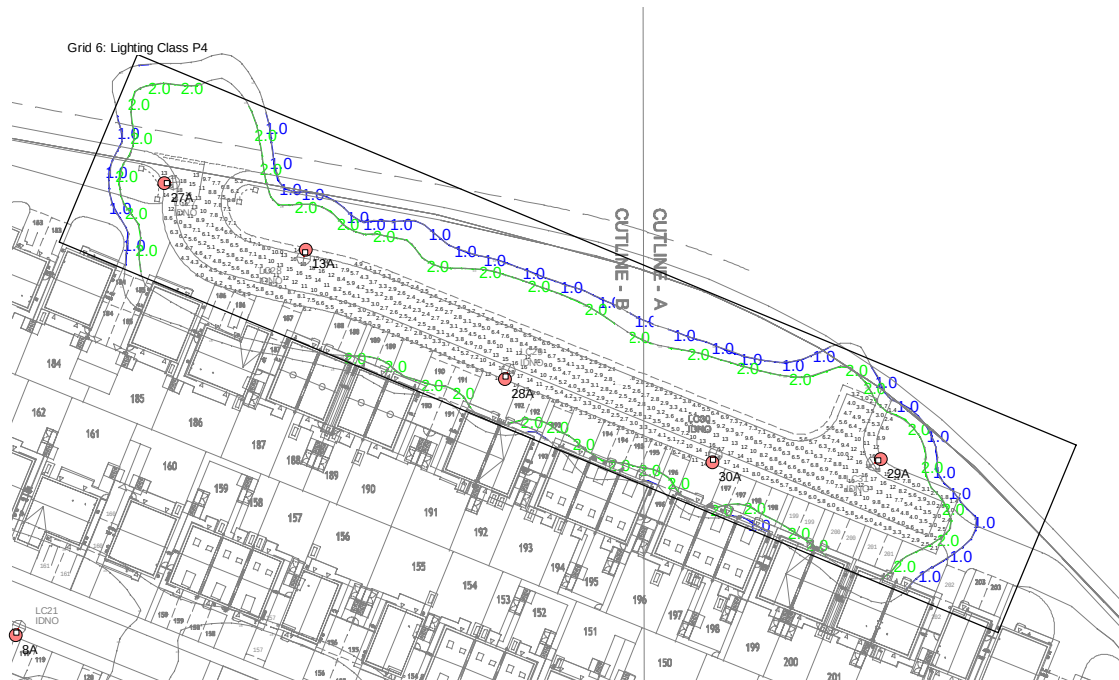


Results

Eav	6.22
Emin	1.37
Emax	17.91
Emin/Emax	0.08
Emin/Eav	0.22

Horizontal Illuminance (lux)

Grid 6: Lighting Class P4

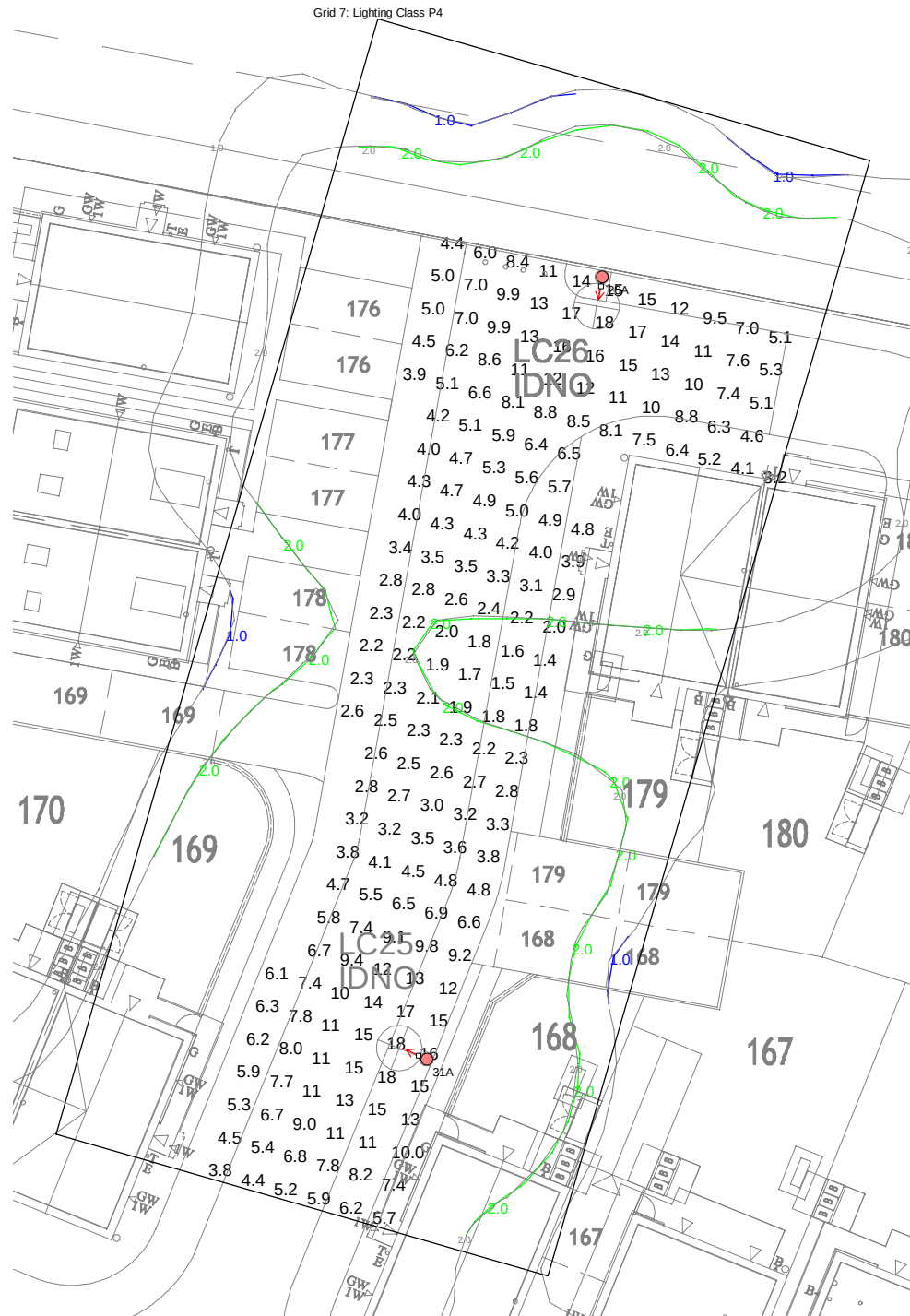


Results

Eav	6.85
Emin	1.36
Emax	18.41
Emin/Emax	0.07
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 7: Lighting Class P4

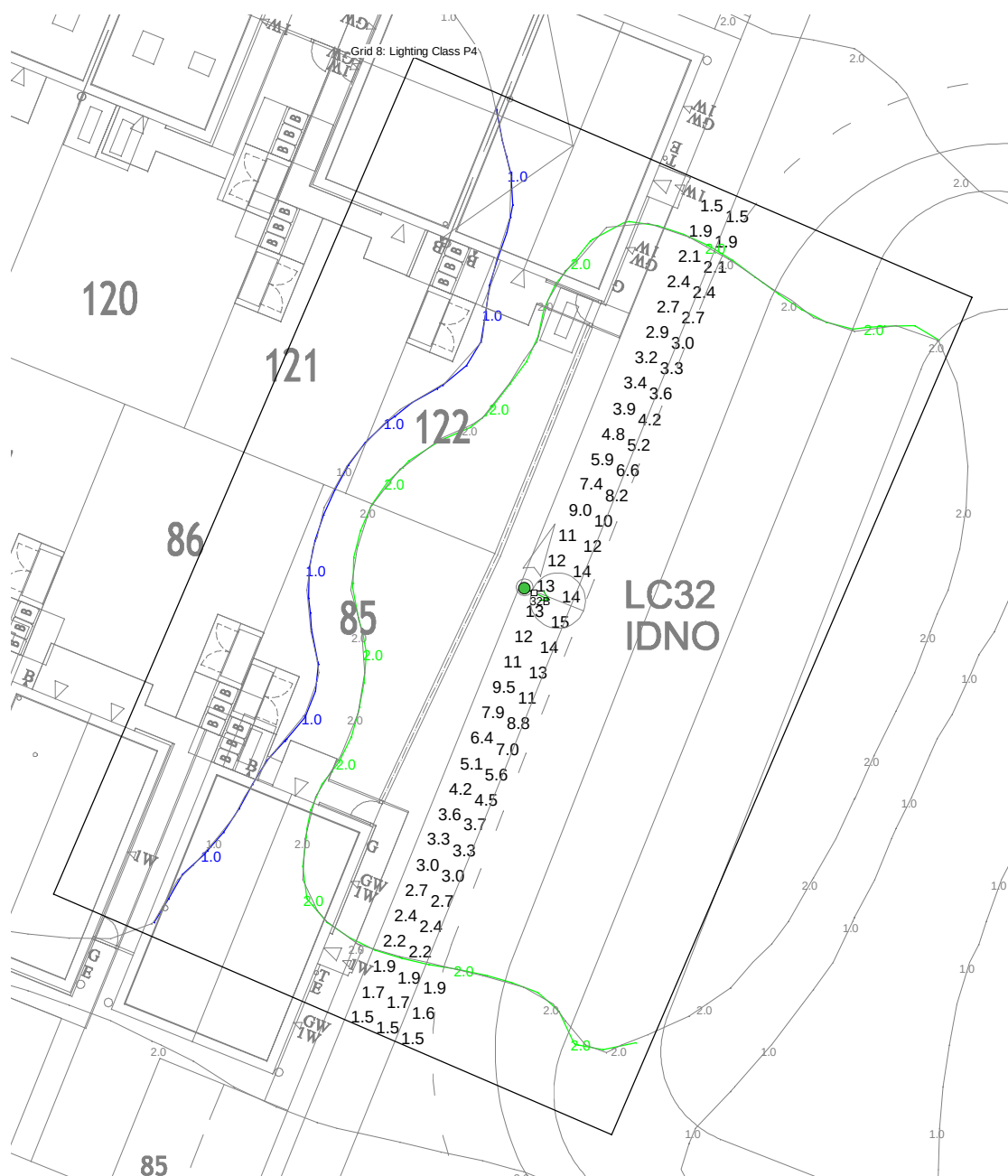


Results

Eav	6.86
Emin	1.42
Emax	18.13
Emin/Emax	0.08
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 8: Lighting Class P4

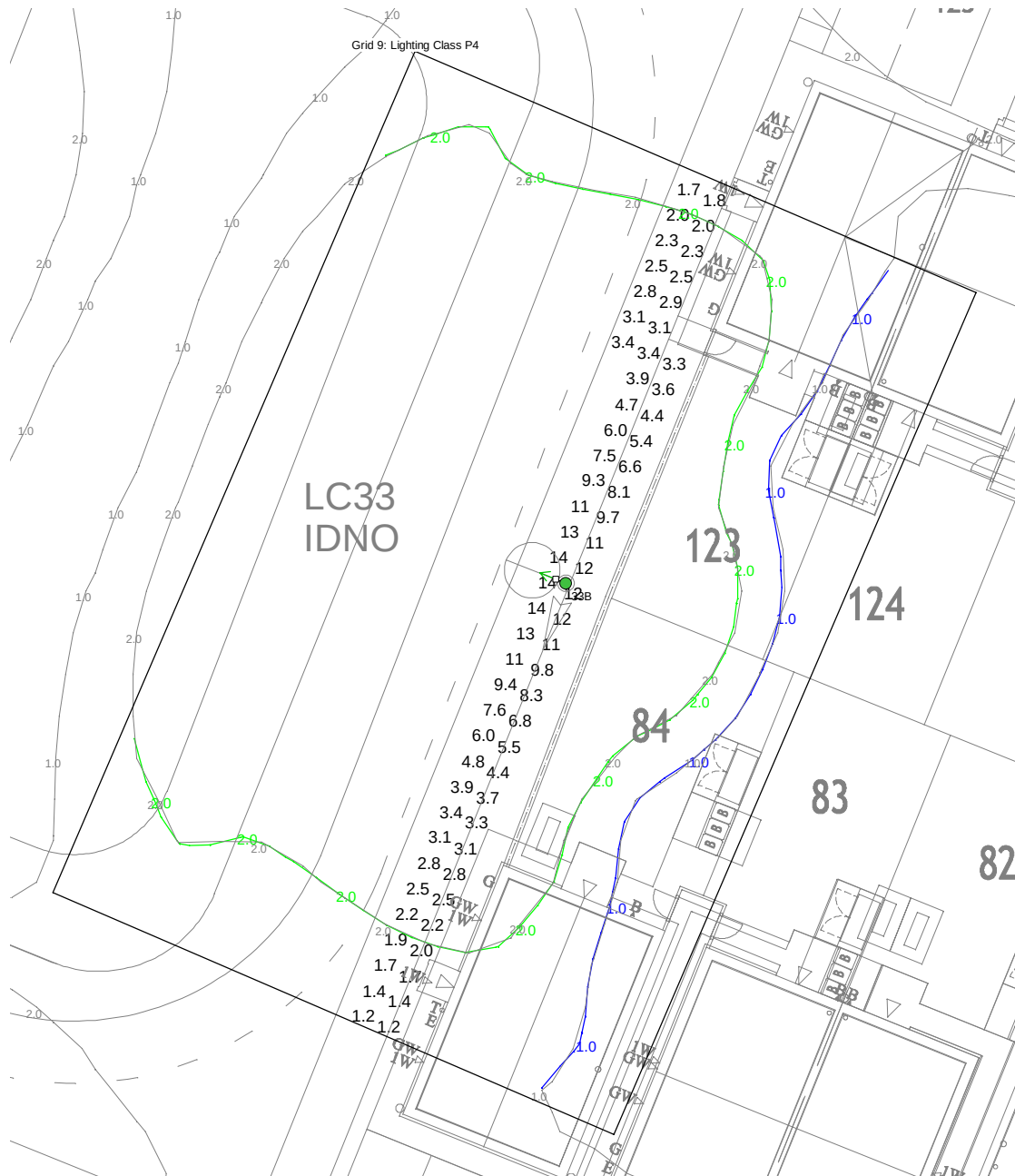


Results

Eav	5.48
Emin	1.45
Emax	14.60
Emin/Emax	0.10
Emin/Eav	0.27

Horizontal Illuminance (lux)

Grid 9: Lighting Class P4



Results

Eav	5.51
Emin	1.21
Emax	14.31
Emin/Emax	0.08
Emin/Eav	0.22