

DATE: 23 July 2022
DESIGNER: SHD Lighting Consultancy Ltd
PROJECT No: SHD629
PROJECT NAME: Flosch Meadows, Cleator, Phase 2



CAD layout reference: 1842 - 32 - Section 38

Lighting classification: P5 (BS 5489-1:2020, Table A.5)

Minimum maintained average illuminance (Eav): >3.00 lux <4.50 lux

Minimum illuminance (Emin): >0.60 lux

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

Outdoor Lighting Report

PREPARED BY: SHD Lighting Consultancy Ltd
Contact: info@shdlighting.co.uk
Phone: 07834 490 192
Website: www.shdlighting.co.uk

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 Site	301659.65	513953.31	193.38	224.69	1.50	1.50
2	Grid 2: Lighting Class P5	301761.74	514018.15	84.00	144.00	1.50	1.50
3	Grid 3: Lighting Class P5	301668.06	513991.15	84.00	144.00	1.50	1.50

Luminaires



Luminaire A Data

Supplier	Thorn Lighting UK & Ireland
Type	R2L2 Small 12LED 350mA EWC optic
Lamp(s)	LED 3000K CRI 70
LampFlux(klm)/Colour	1.80 3000/70
File Name	RS12L35EWC730.LDT
Maintenance Factor	0.83
Lum. Int. Class	G3
No. in Project	10

Luminaire B Data

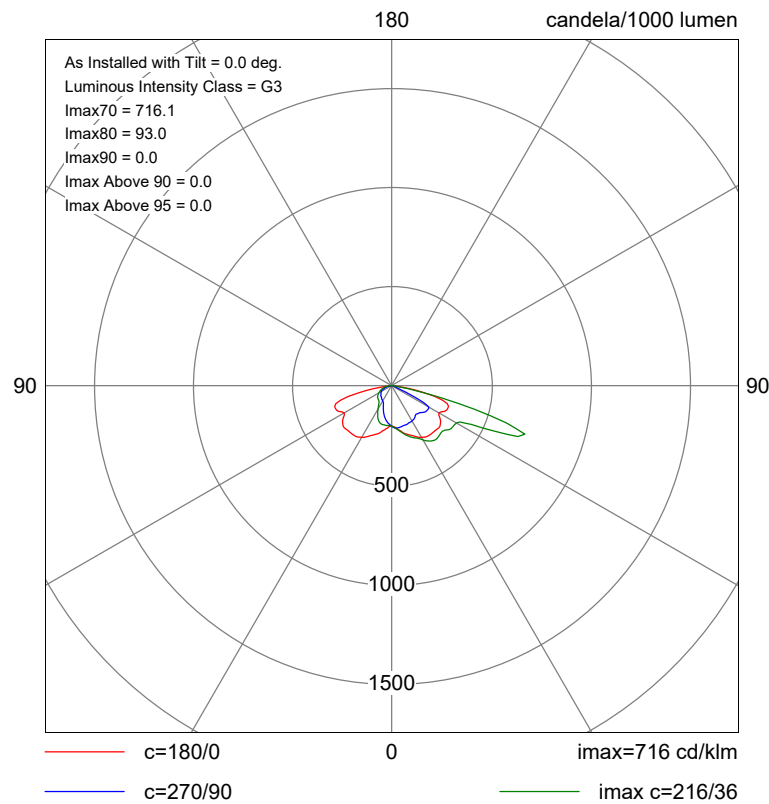
Supplier	
Type	R2L2 S - 12 x Warm White 3000K LED CRI 70 350mA - EWC Optic
Lamp(s)	LED_3000K
LampFlux(klm)/Colour	1.80 3000/70
File Name	RS12L35EWC730G36_DC.LDT
Maintenance Factor	0.83
Lum. Int. Class	G3
No. in Project	2

Layout

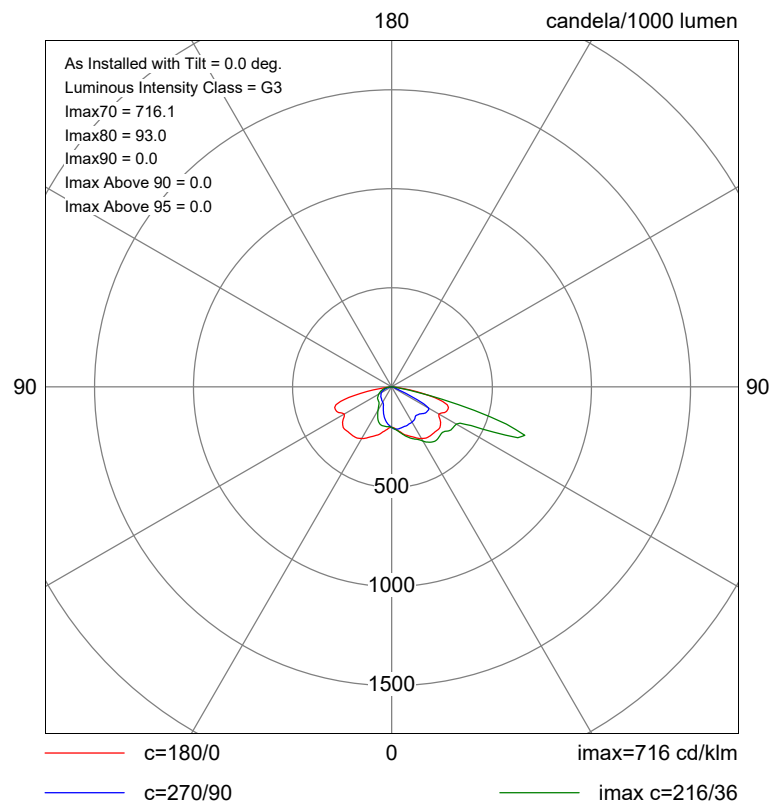
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	B	301827.66	514032.05	6.00	177.00	0.00	0.00	0.40			
2	B	301740.78	513995.52	6.00	28.00	0.00	0.00	0.40			
3	A	301679.01	514115.64	6.00	28.00	0.00	0.00	0.40			
4	A	301695.01	514084.54	6.00	28.00	0.00	0.00	0.40			
5	A	301710.84	514053.90	6.00	27.00	0.00	0.00	0.40			
6	A	301726.21	514023.77	6.00	27.00	0.00	0.00	0.40			
7	A	301692.20	514125.68	6.00	299.00	0.00	0.00	0.40			
8	A	301781.77	514149.56	6.00	210.00	0.00	0.00	0.40			
9	A	301794.08	514115.70	6.00	31.00	0.00	0.00	0.40			
10	A	301814.81	514087.86	6.00	201.00	0.00	0.00	0.40			
11	A	301824.70	514061.27	6.00	200.00	0.00	0.00	0.40			
12	A	301777.18	514131.25	6.00	120.00	0.00	0.00	0.40			

Polar Diagrams

Luminaire A R2L2 Small 12LED 350mA EWC optic

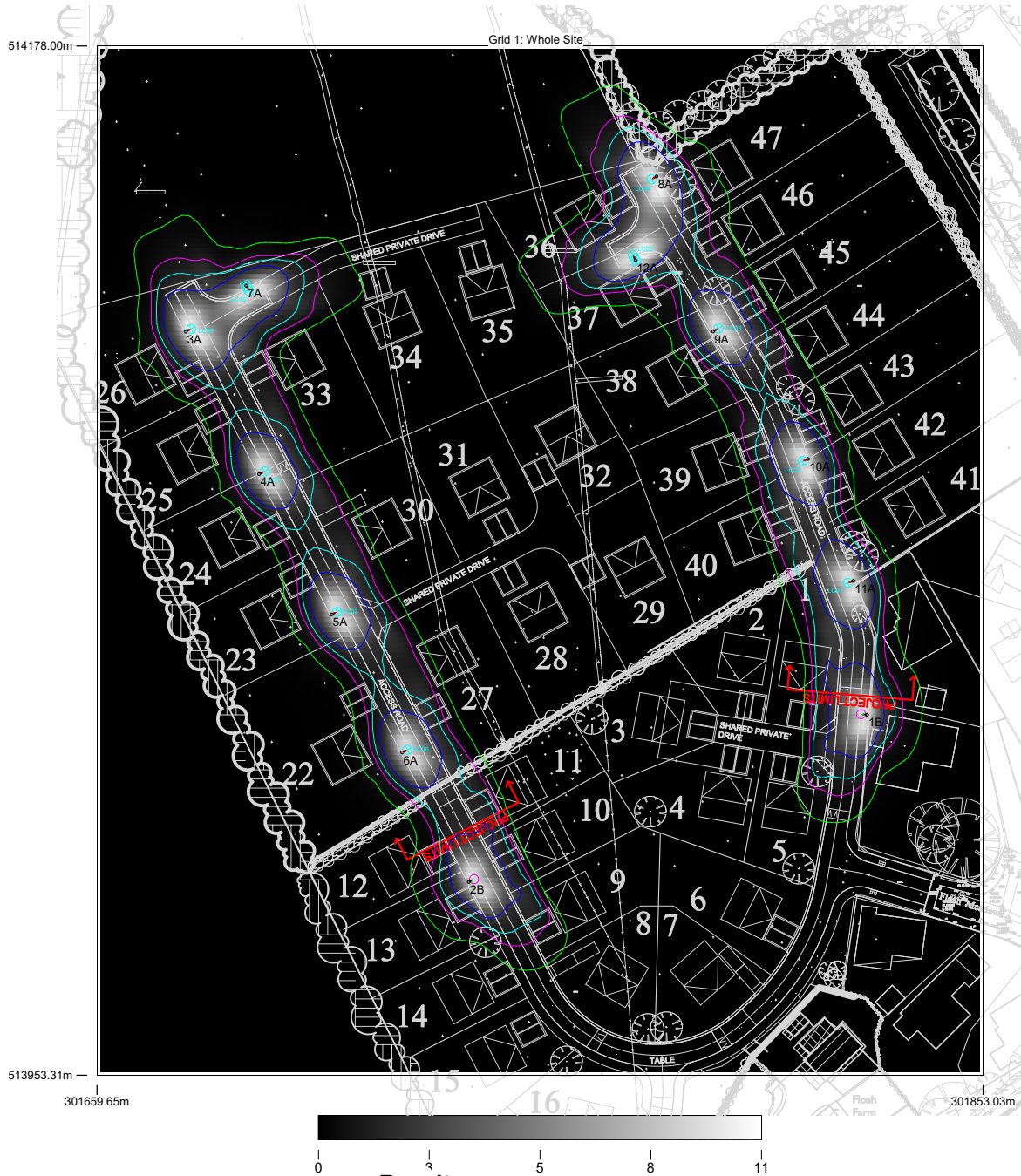


Luminaire B R2L2 S - 12 x Warm White 3000K LED CRI70 350mA - EWC Optic



Horizontal Illuminance (lux)

Grid 1: Whole Site

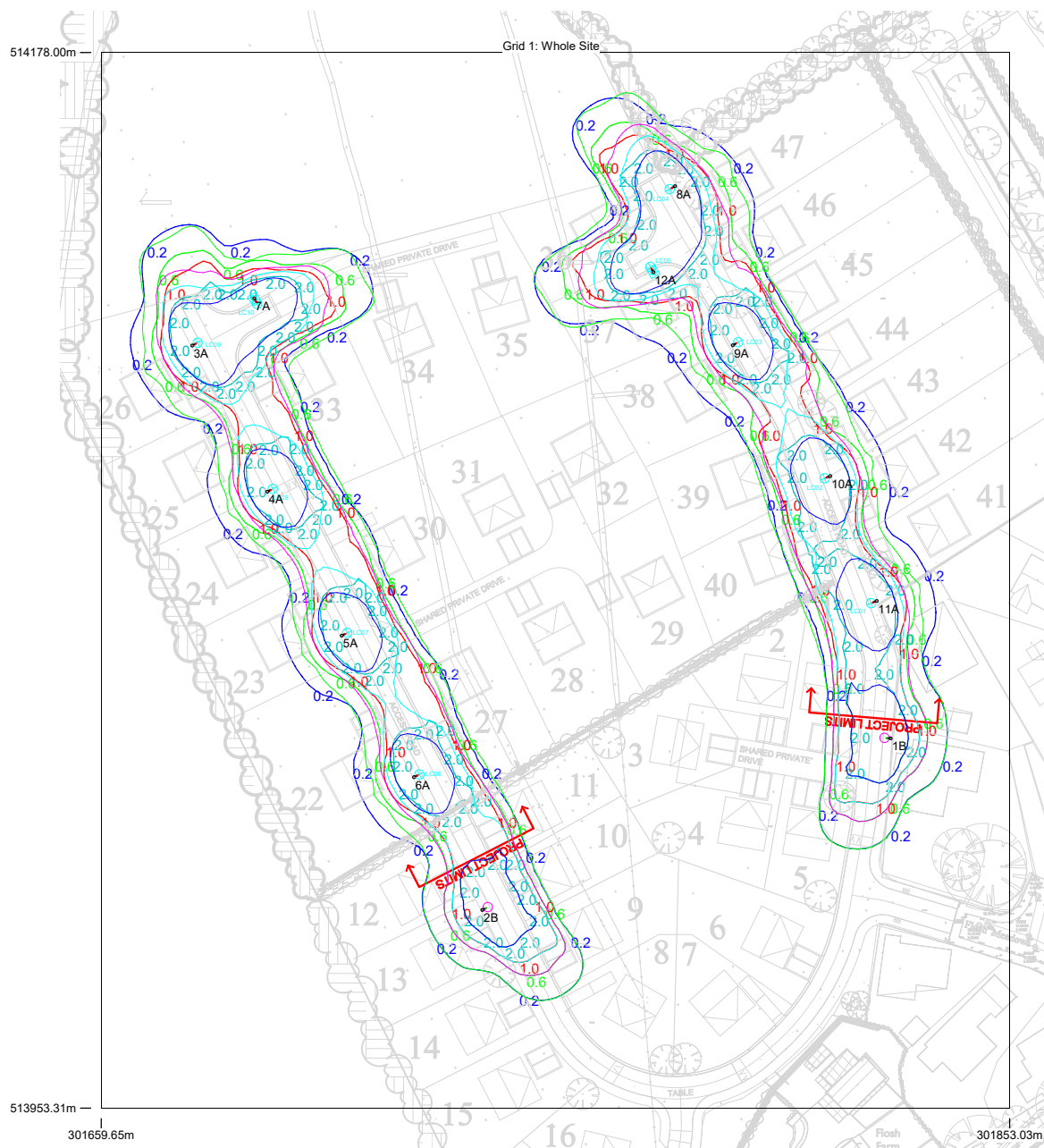


Results

Eav	3.90
Emin	0.81
Emax	10.51
Emin/Emax	0.08
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 1: Whole Site

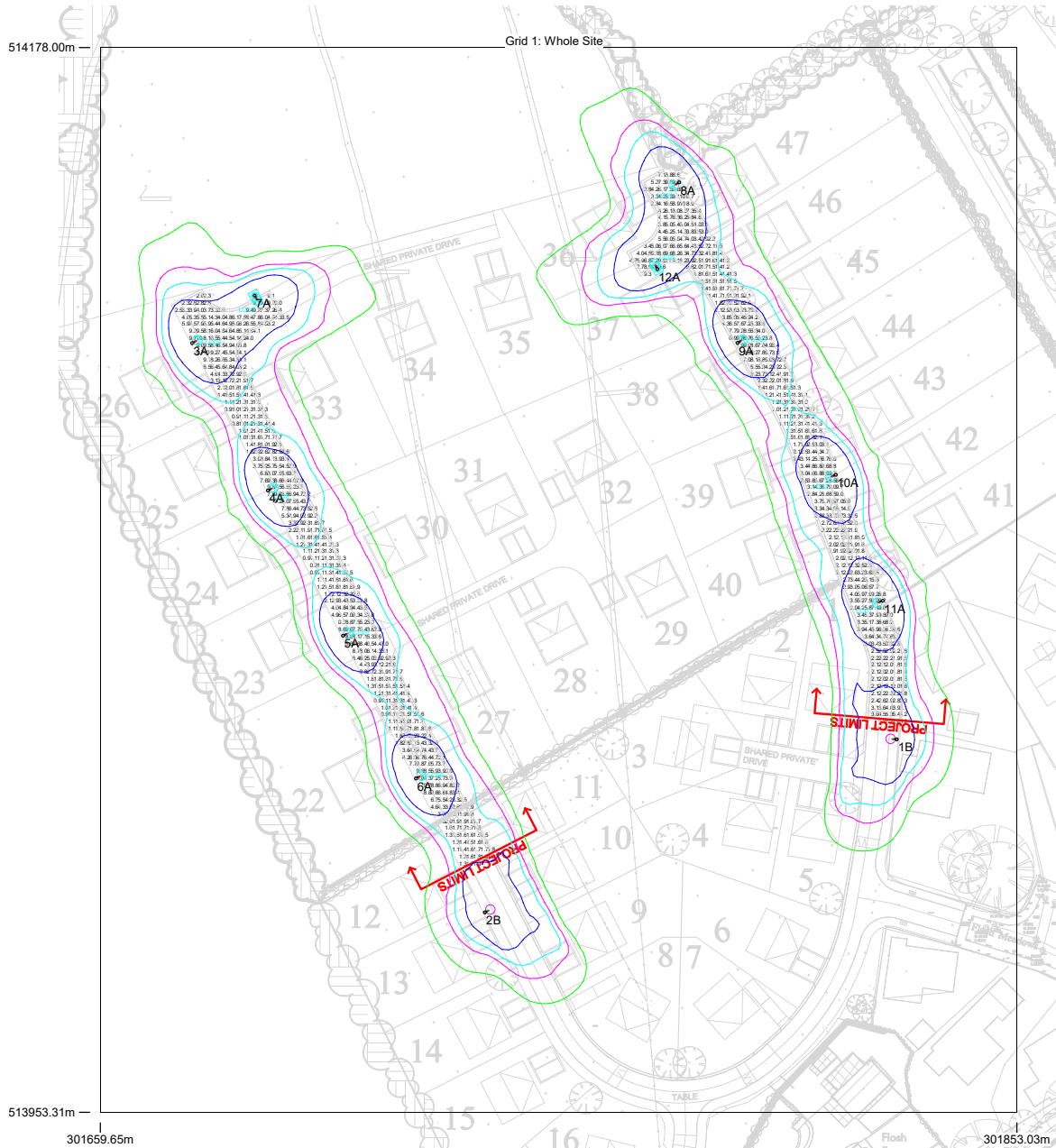


Results

Eav	3.90
Emin	0.81
E _{max}	10.51
Emin/E _{max}	0.08
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 1: Whole Site

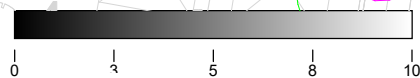
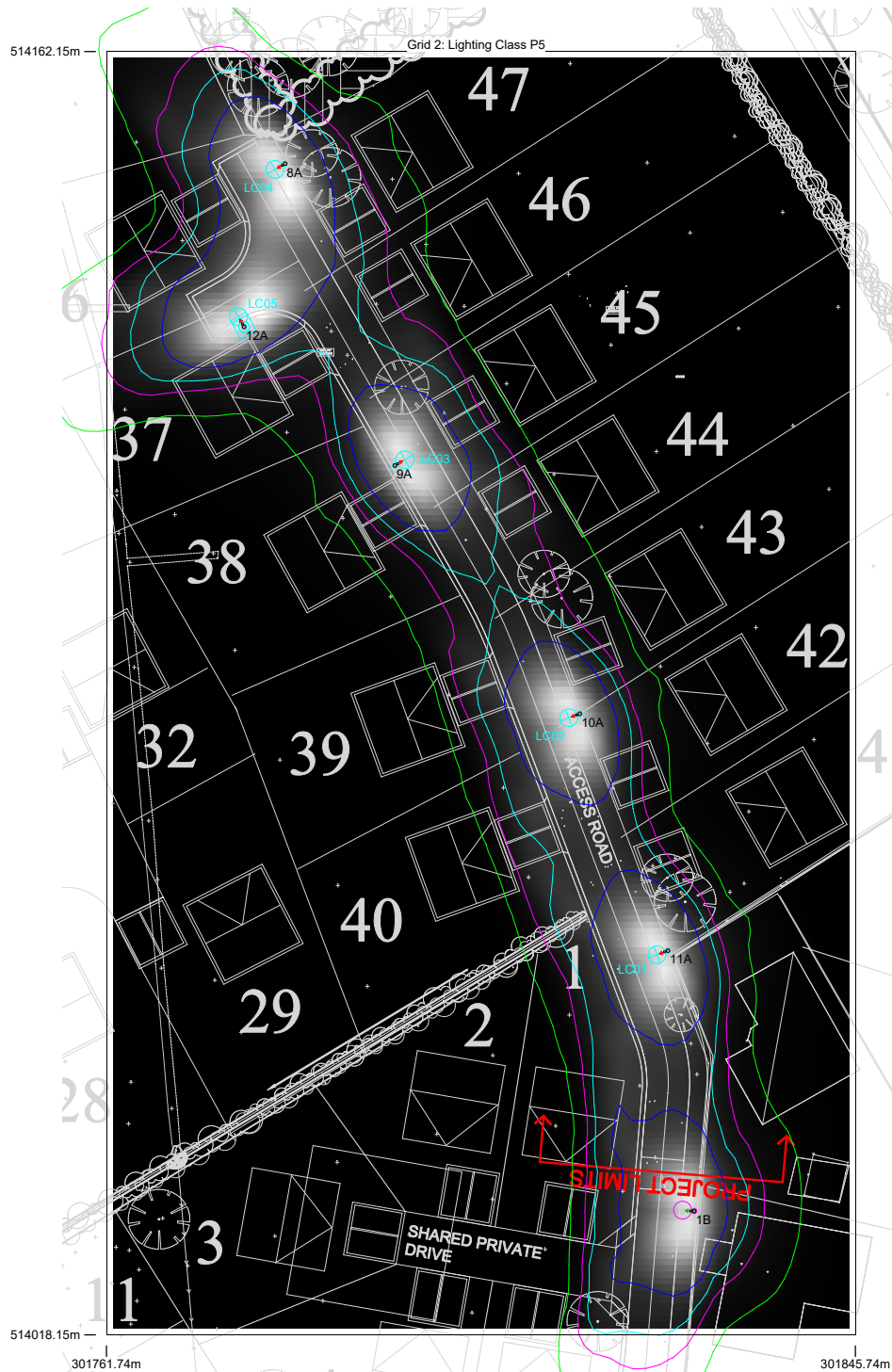


Results

Eav	3.90
Emin	0.81
Emax	10.51
Emin/Emax	0.08
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 2: Lighting Class P5

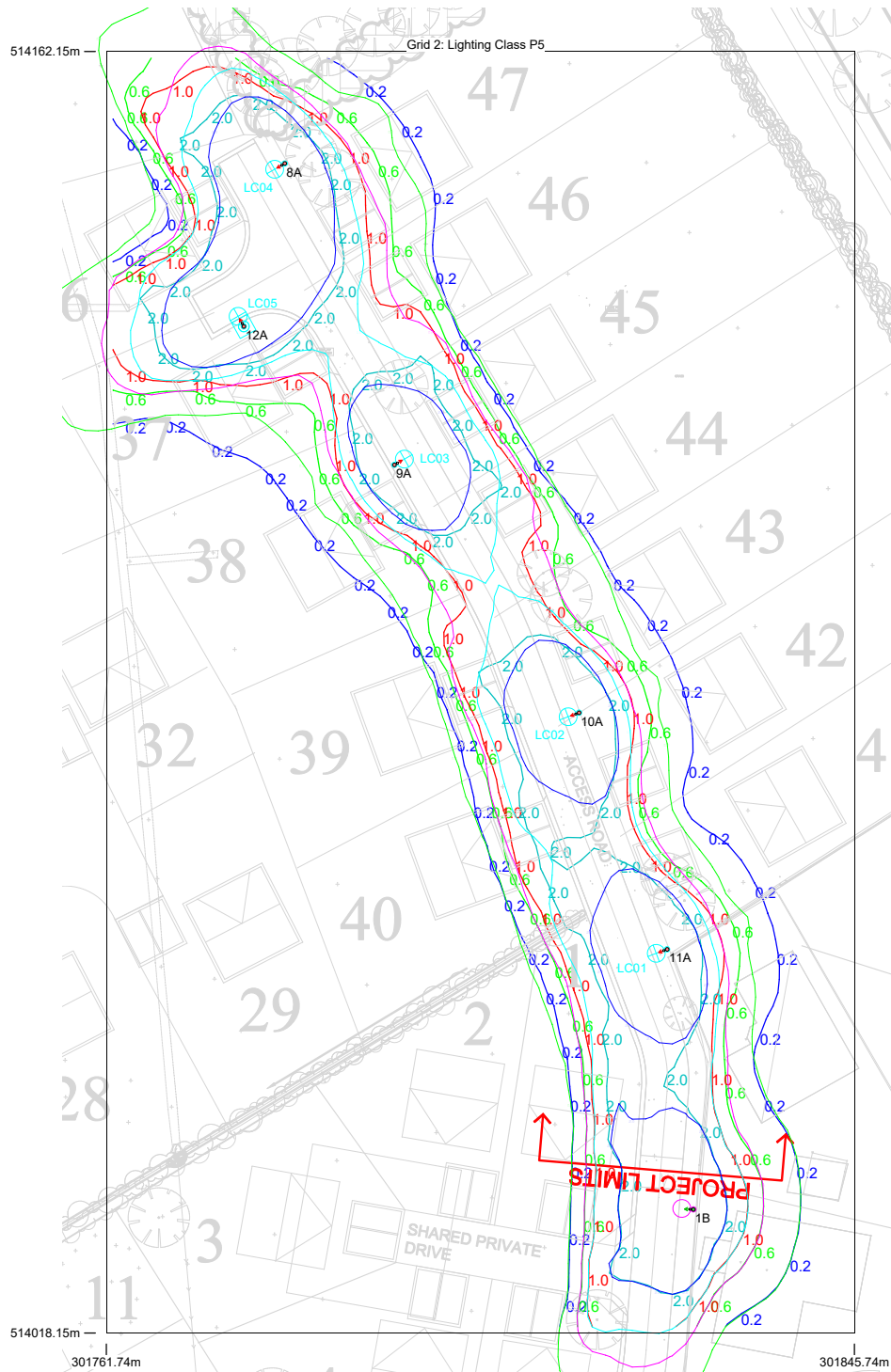


Results

Eav	4.11
Emin	0.98
Emax	10.34
Emin/Emax	0.09
Emin/Eav	0.24

Horizontal Illuminance (lux)

Grid 2: Lighting Class P5

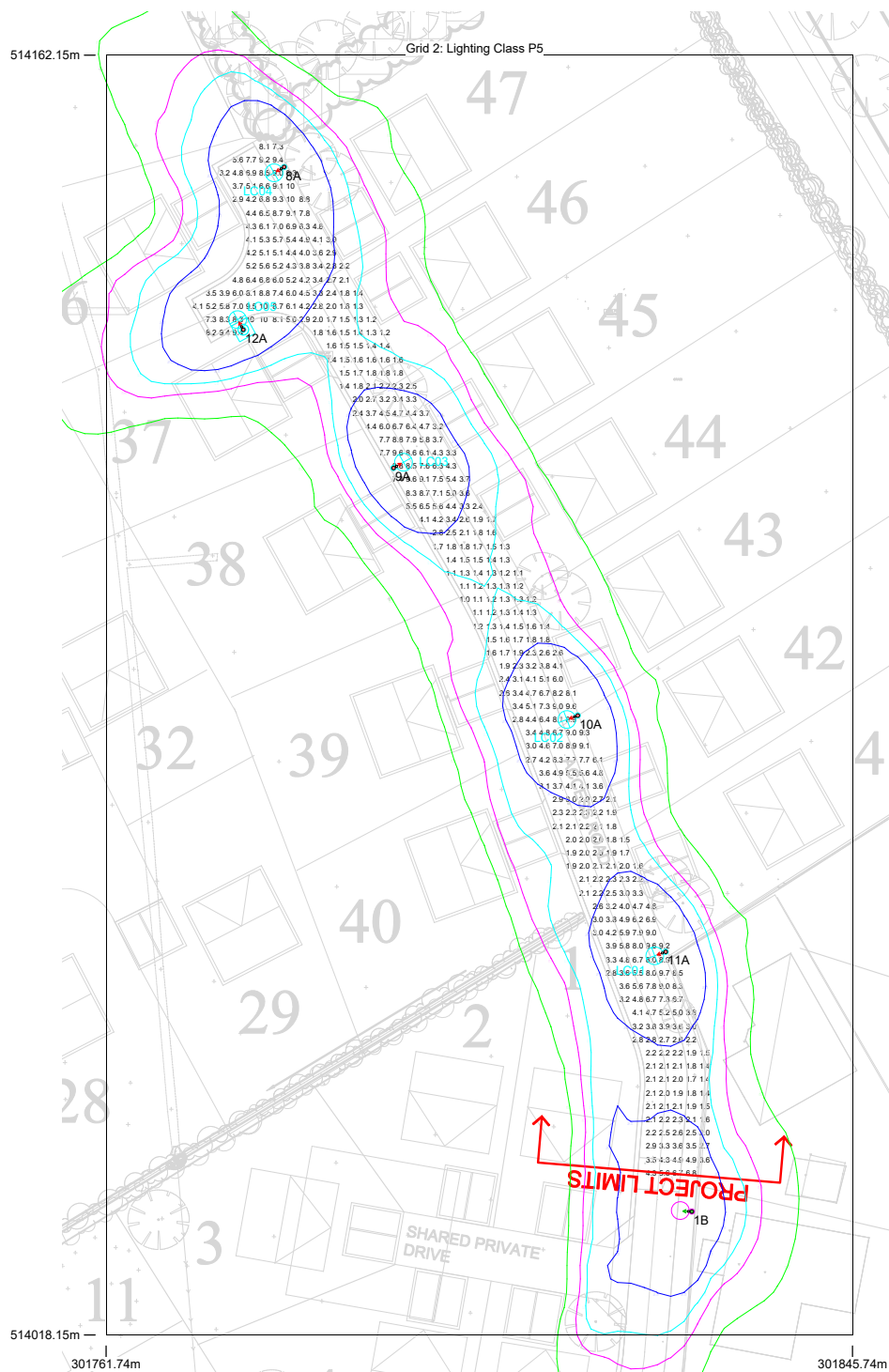


Results

Eav	4.11
Emin	0.98
Emax	10.34
Emin/Emax	0.09
Emin/Eav	0.24

Horizontal Illuminance (lux)

Grid 2: Lighting Class P5

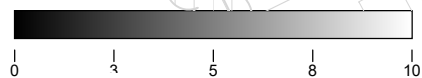
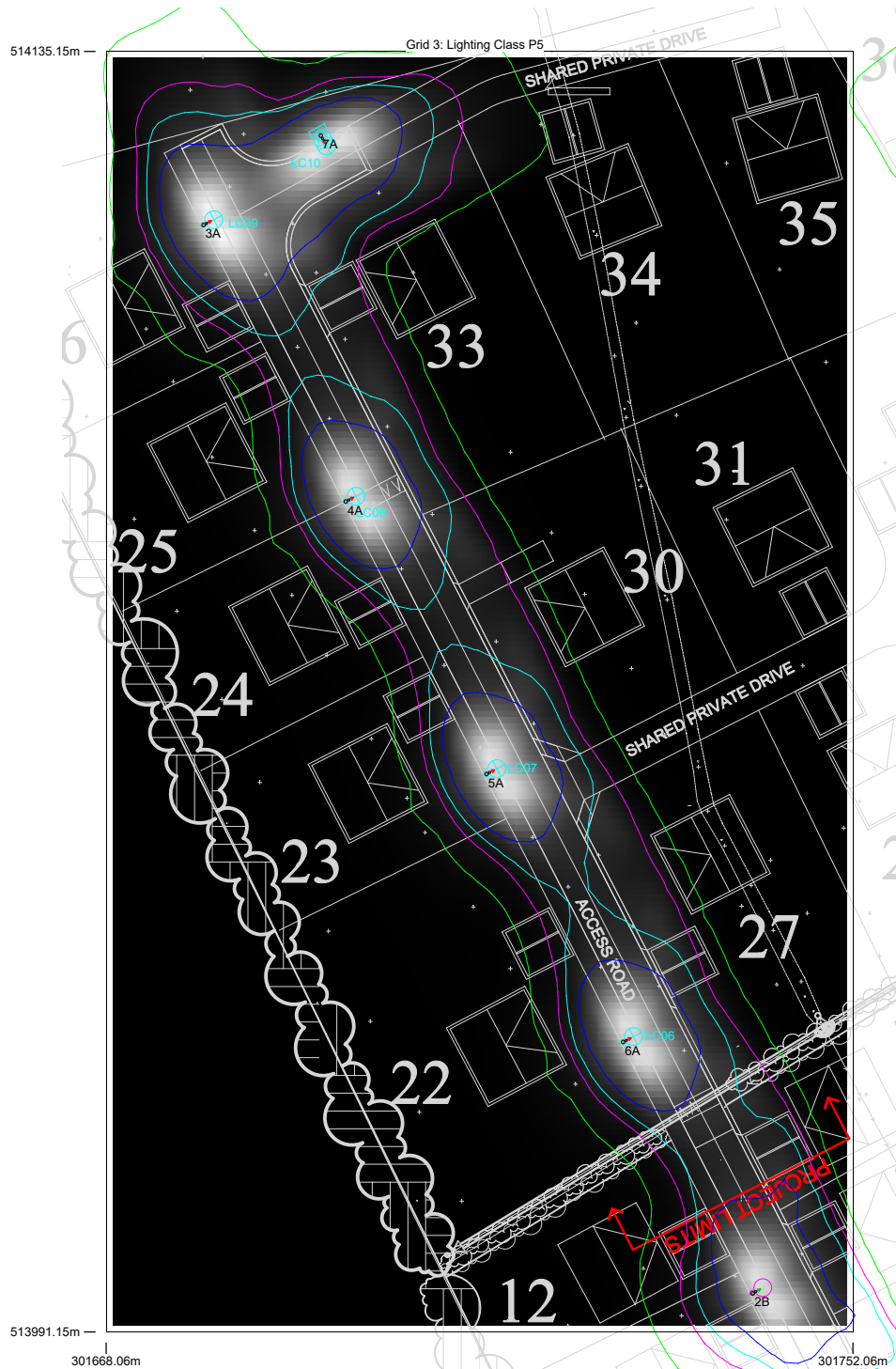


Results

Eav	4.11
Emin	0.98
E _{max}	10.34
Emin/E _{max}	0.09
Emin/Eav	0.24

Horizontal Illuminance (lux)

Grid 3: Lighting Class P5

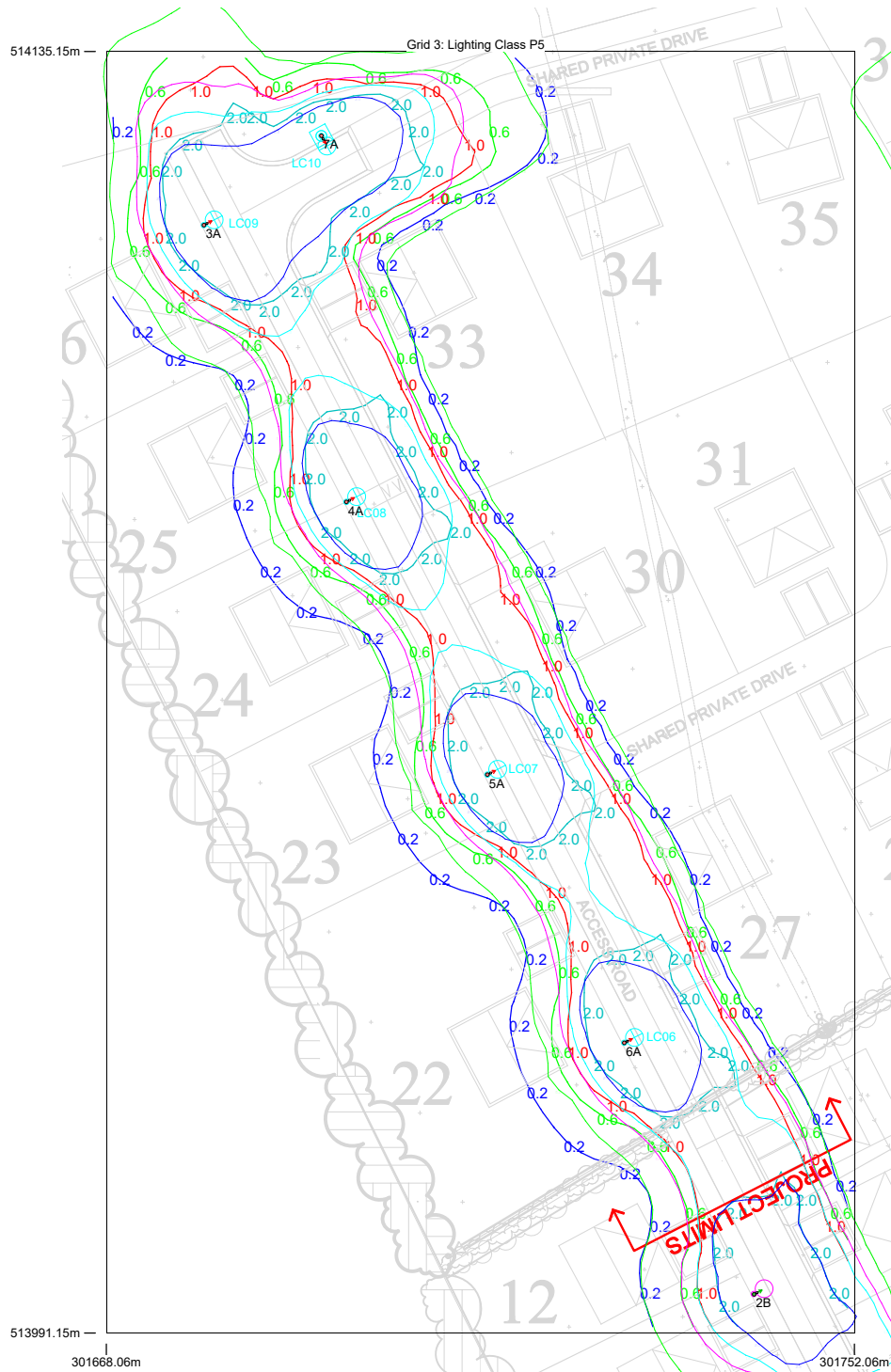


Results

Eav	3.74
Emin	0.80
Emax	10.47
Emin/Emax	0.08
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 3: Lighting Class P5

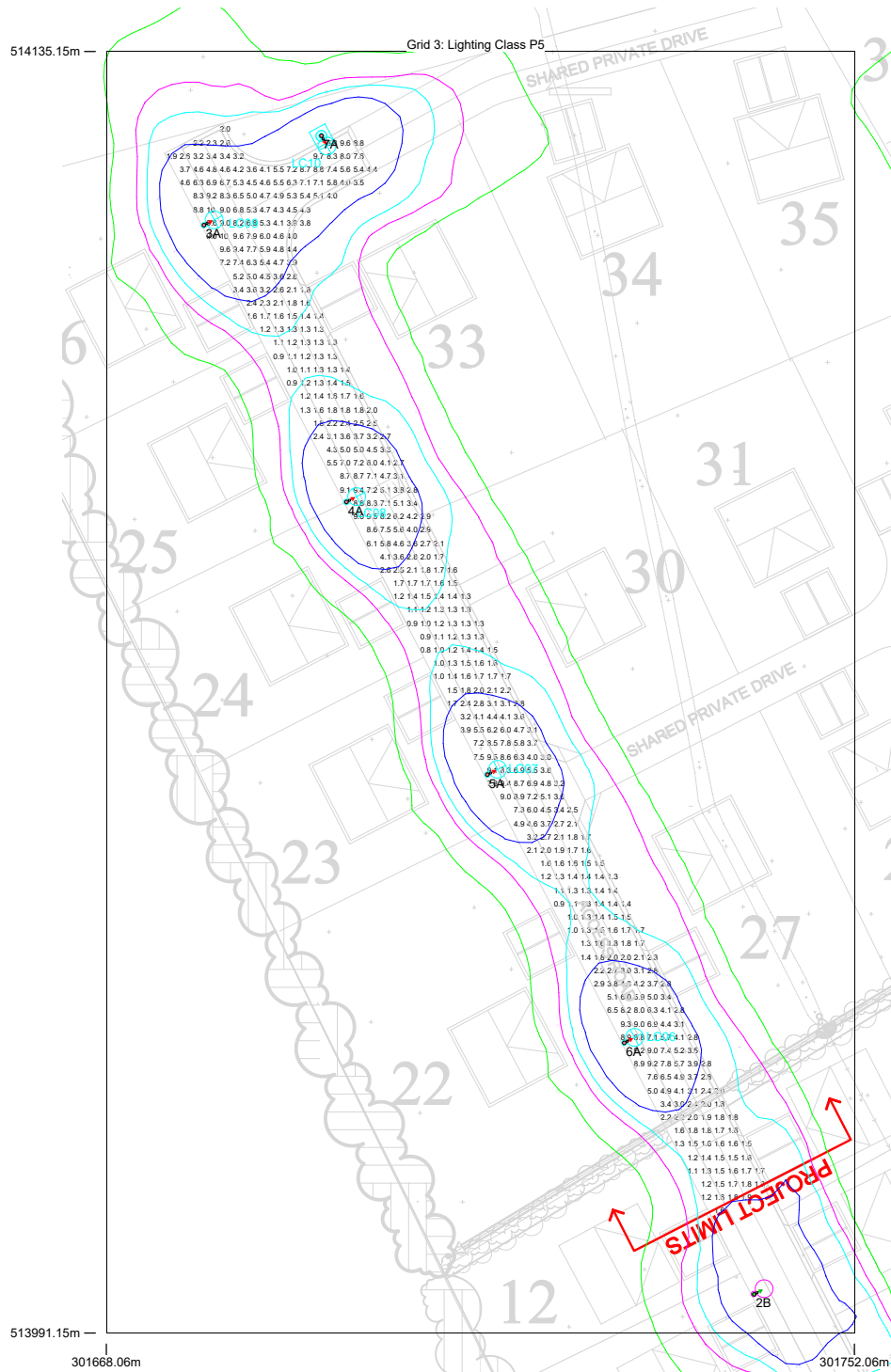


Results

Eav	3.74
Emin	0.80
Emax	10.47
Emin/Emax	0.08
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 3: Lighting Class P5



Results

Eav	3.74
Emin	0.80
Emax	10.47
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Emin/Eav	0.21