

DATE: 1 April 2023
DESIGNER: SHD Lighting Consultancy Ltd
PROJECT No: SHD960
PROJECT NAME: Arlecdon Road, Cumbria



CAD layout reference: N. Kay, Arlecdon Road, Arlecdon Site Plan

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 Area	586.96	-41.05	142.13	117.00	1.50	1.50
2	Grid 2: Lighting Class P5	698.19	-29.65	21.00	78.00	1.50	1.50
3	Grid 3: Lighting Class P5	603.66	4.53	27.00	75.00	1.50	1.50

Luminaires



Luminaire A Data

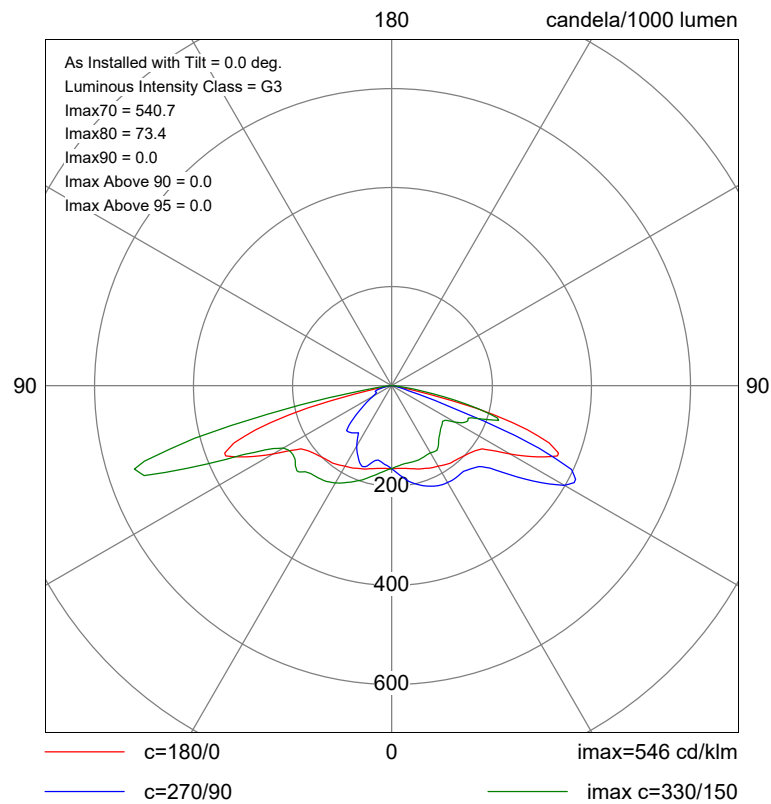
Supplier	Thorn Lighting UK & Ireland
Type	Isaro Pro Small 12LED 350mA EWR optic
Lamp(s)	LED 3000K CRI 70
LampFlux(klm)/Colour	1.87 3000/70
File Name	IP12L35EWR730.LDT
Maintenance Factor	0.84
Lum. Int. Class	G3
No. in Project	6

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	706.68	-15.29	5.00	221.00	0.00	0.00	0.70			
2	A	680.58	2.14	5.00	36.00	0.00	0.00	0.40			
3	A	646.60	49.40	5.00	330.00	0.00	0.00	0.40			
4	A	639.40	24.05	5.00	139.00	0.00	0.00	0.40			
5	A	660.67	26.47	5.00	37.00	0.00	0.00	0.40			
6	A	619.48	0.07	5.00	136.00	0.00	0.00	0.40			

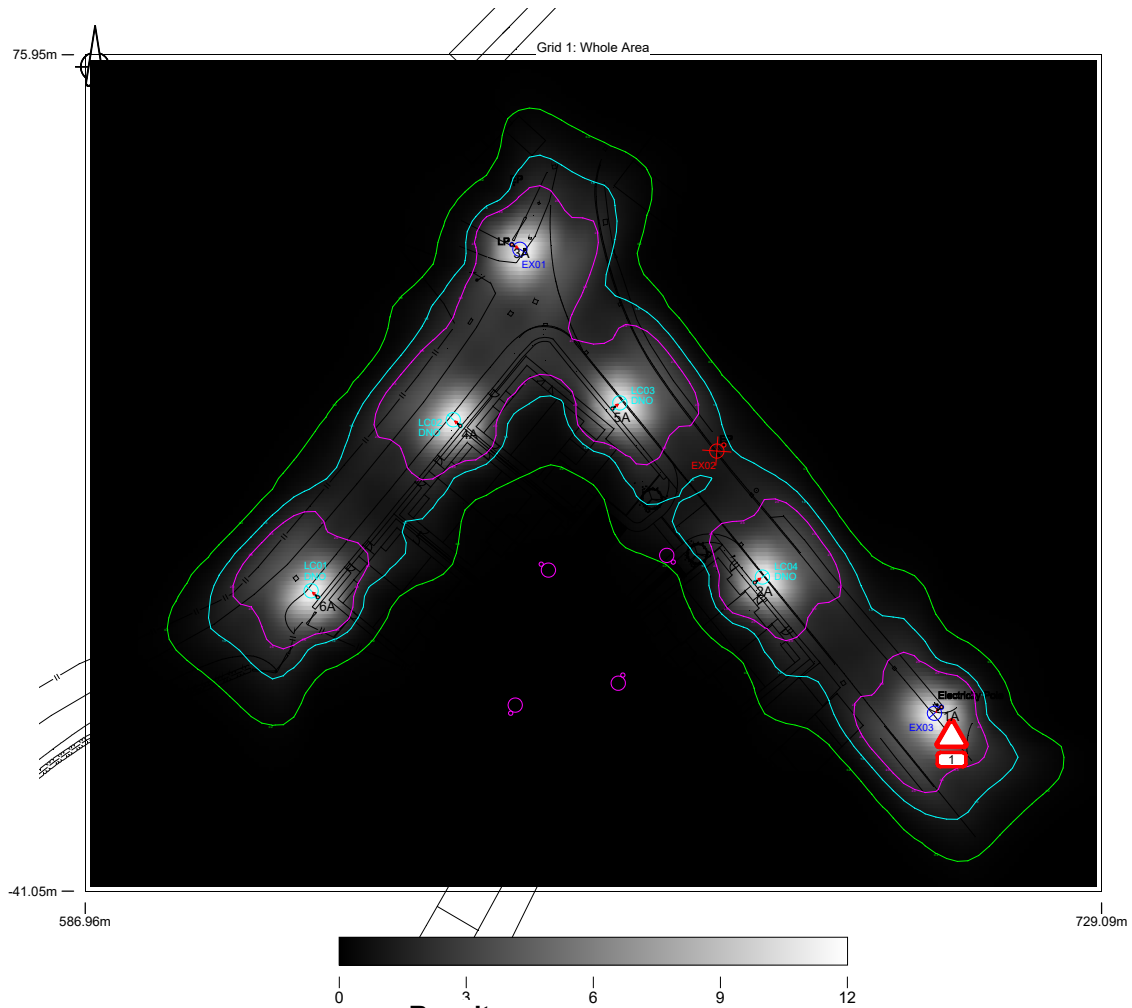
Polar Diagram

Luminaire A Isaro Pro Small 12LED 350mA EWR optic



Horizontal Illuminance (lux)

Grid 1: Whole Area

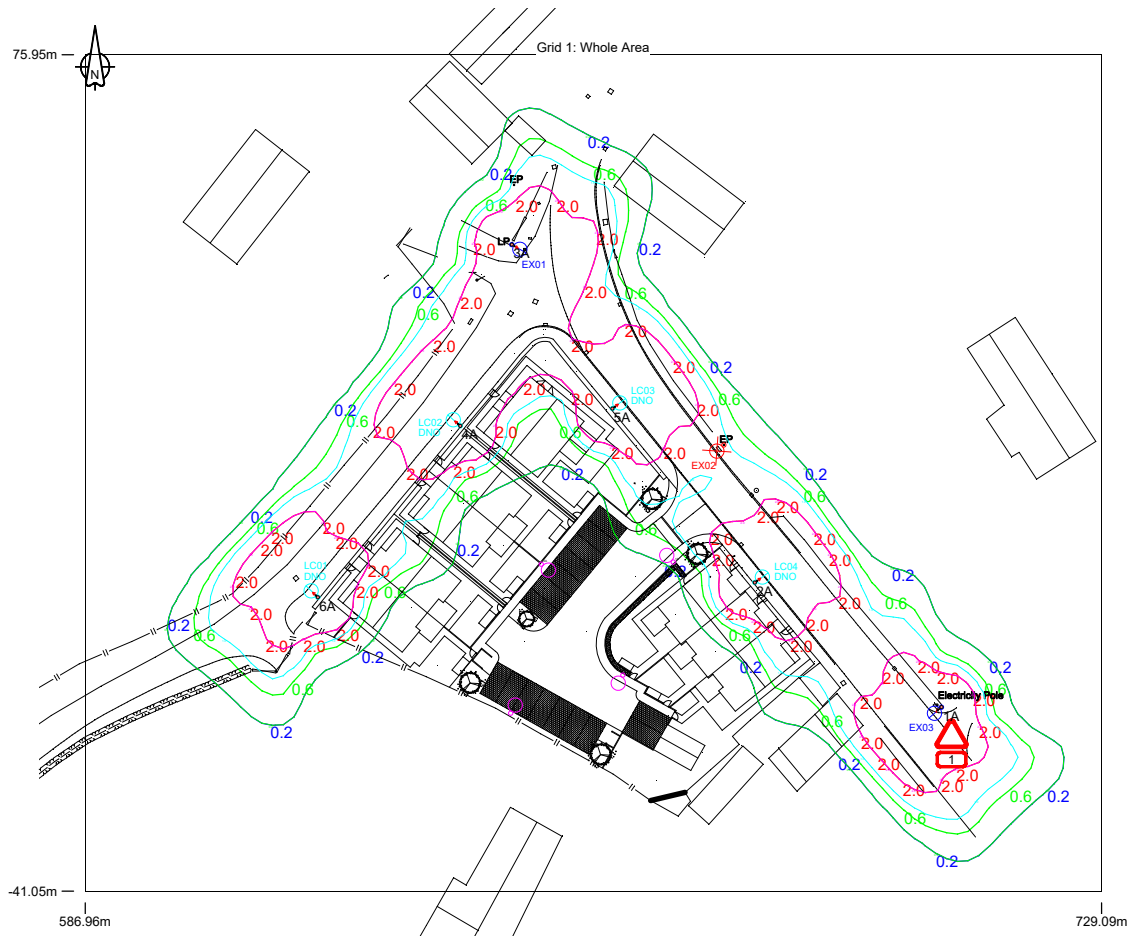


Results

Eav	3.53
Emin	0.97
Emax	11.72
Emin/Emax	0.08
Emin/Eav	0.27

Horizontal Illuminance (lux)

Grid 1: Whole Area

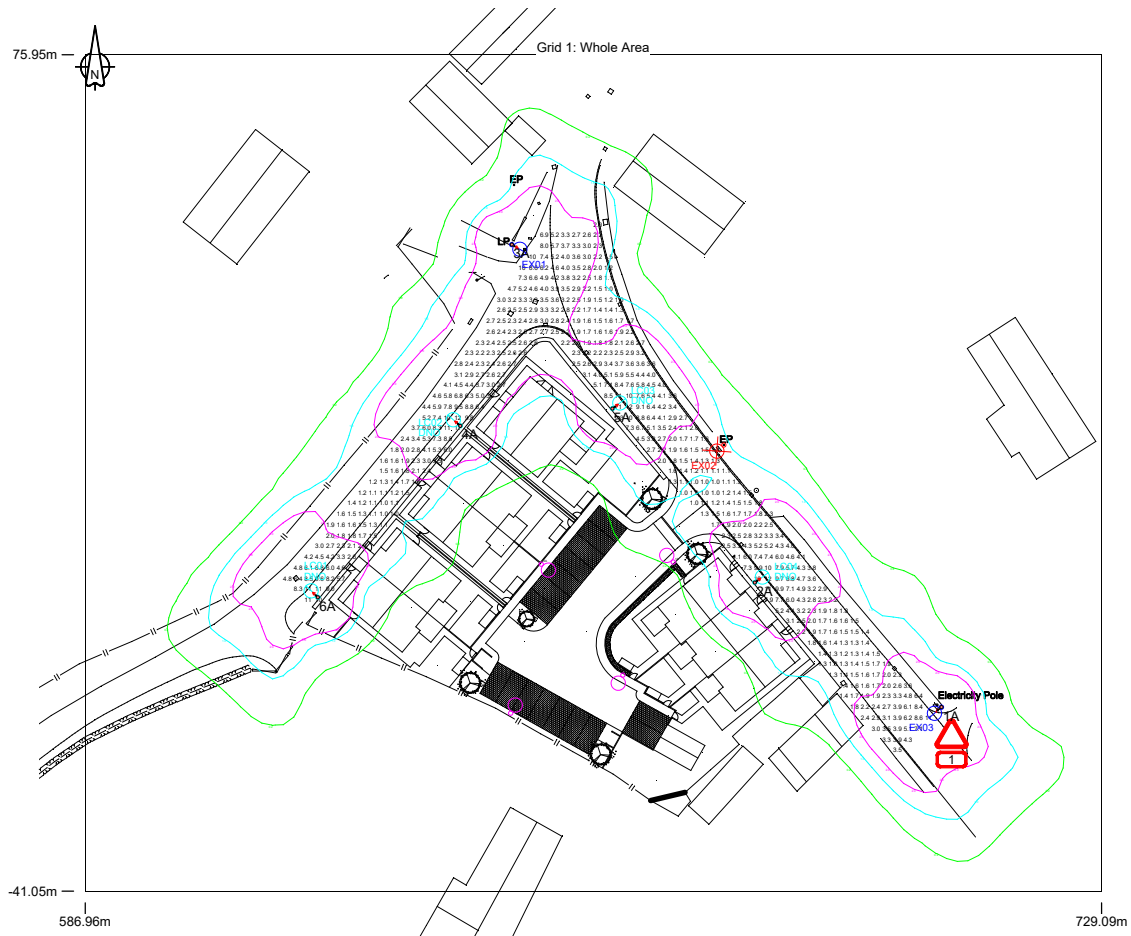


Results

Eav	3.53
Emin	0.97
Emax	11.72
Emin/Emax	0.08
Emin/Eav	0.27

Horizontal Illuminance (lux)

Grid 1: Whole Area

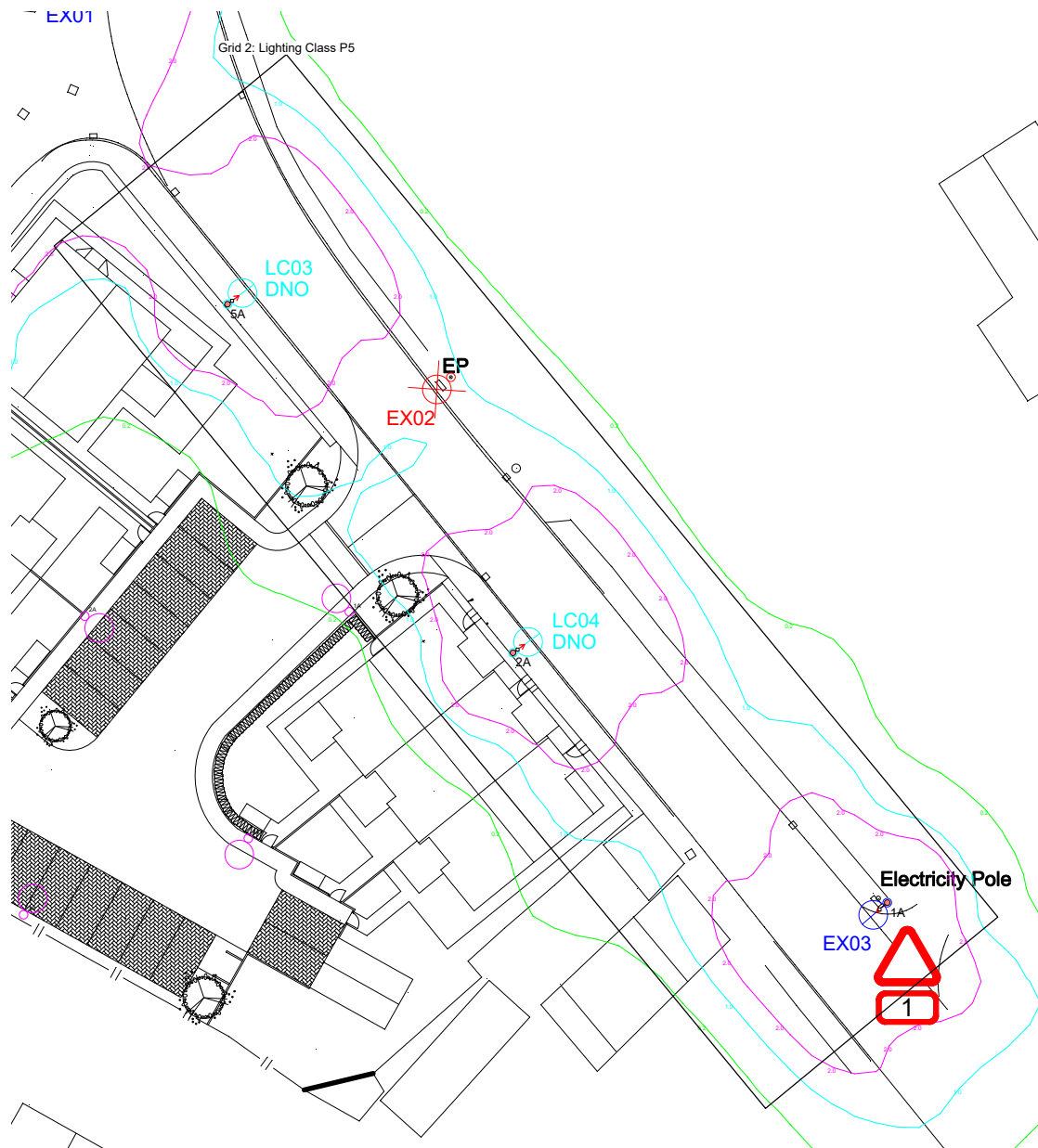


Results

Eav	3.53
Emin	0.97
Emax	11.72
Emin/Emax	0.08
Emin/Eav	0.27

Horizontal Illuminance (lux)

Grid 2: Lighting Class P5

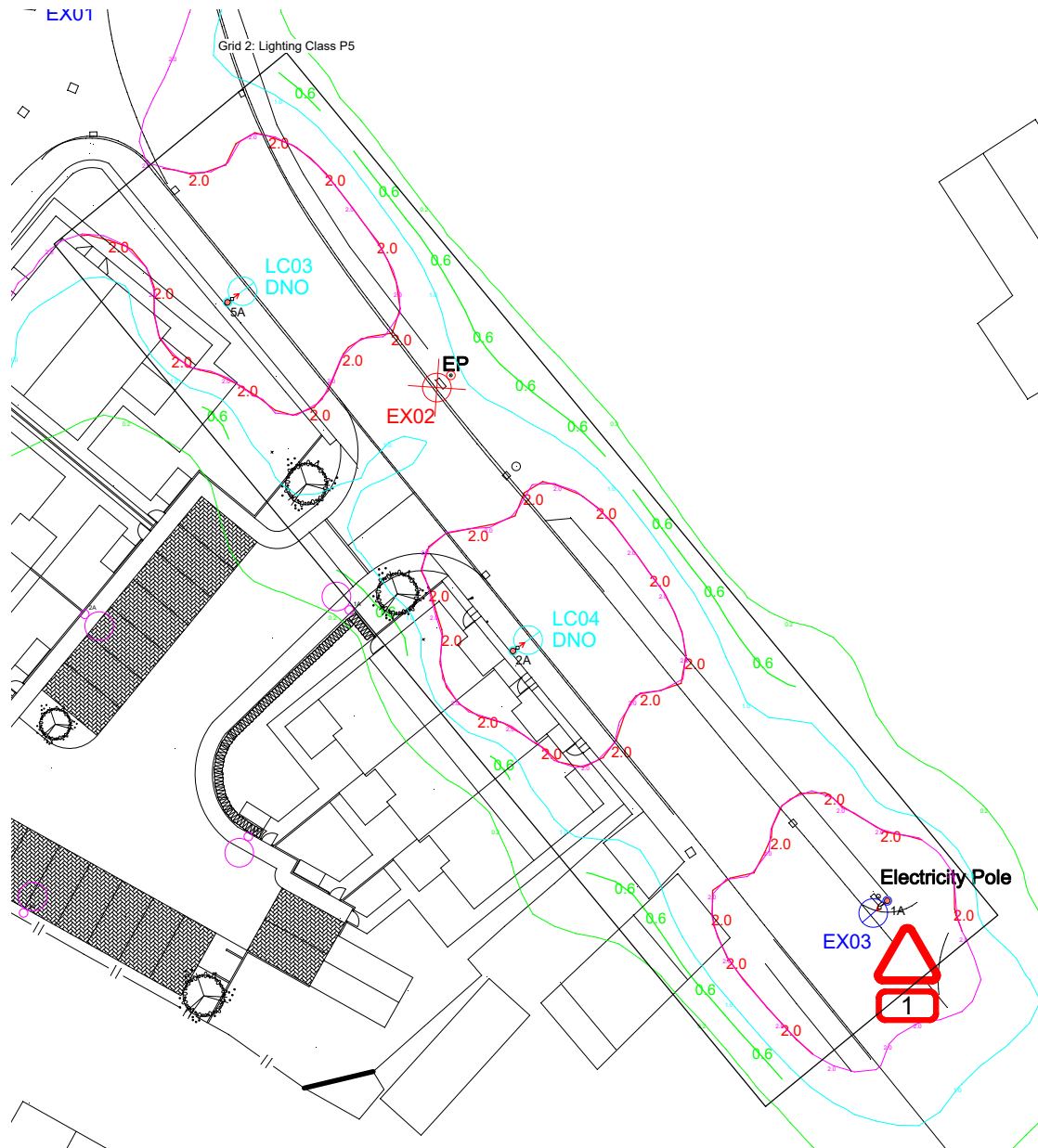


Results

Eav	3.47
Emin	0.96
Emax	11.72
Emin/Emax	0.08
Emin/Eav	0.28

Horizontal Illuminance (lux)

Grid 2: Lighting Class P5

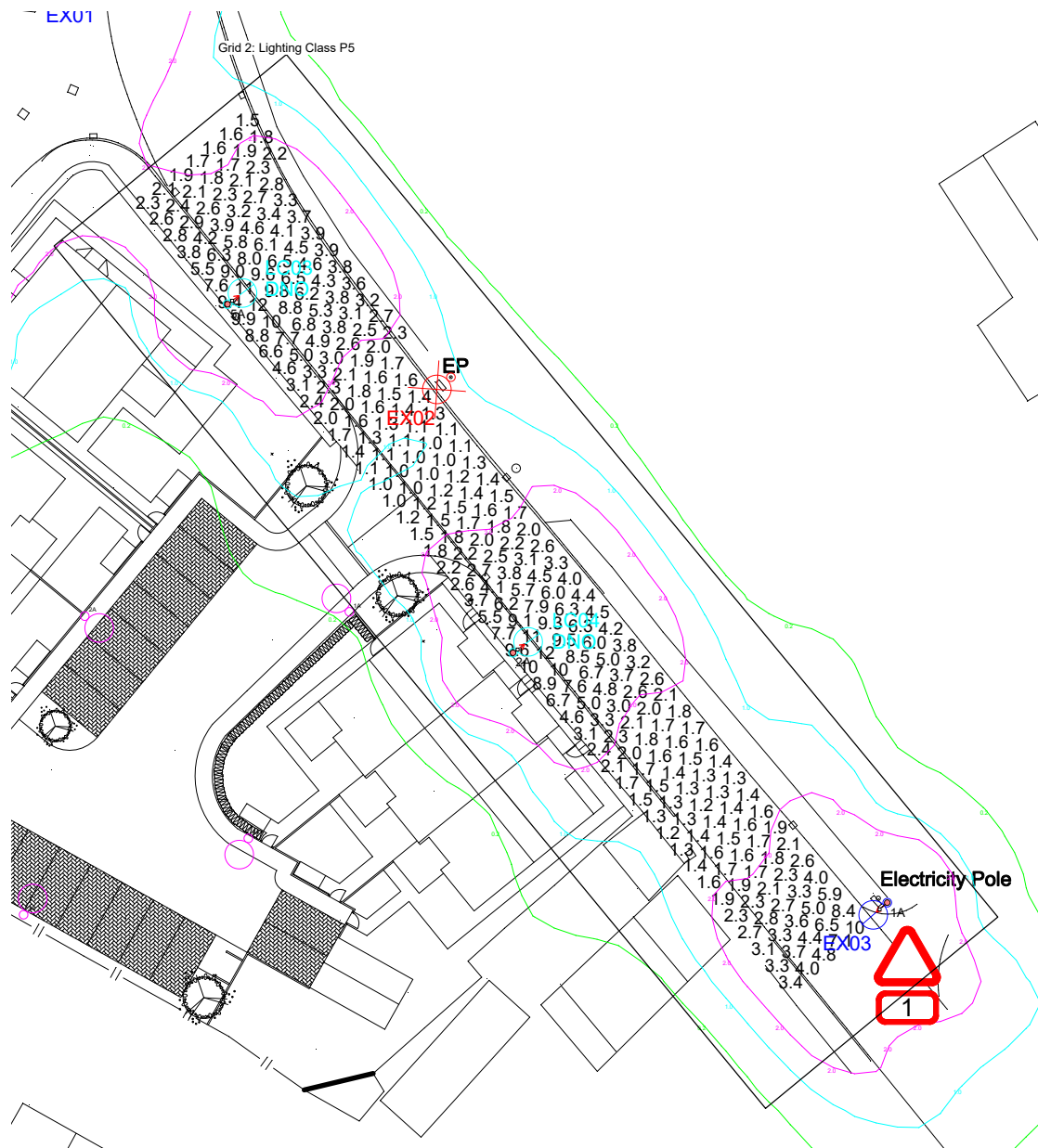


Results

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Emin	0.96
Emax	11.72
Emin/Emax	0.08
Emin/Eav	0.28

Horizontal Illuminance (lux)

Grid 2: Lighting Class P5

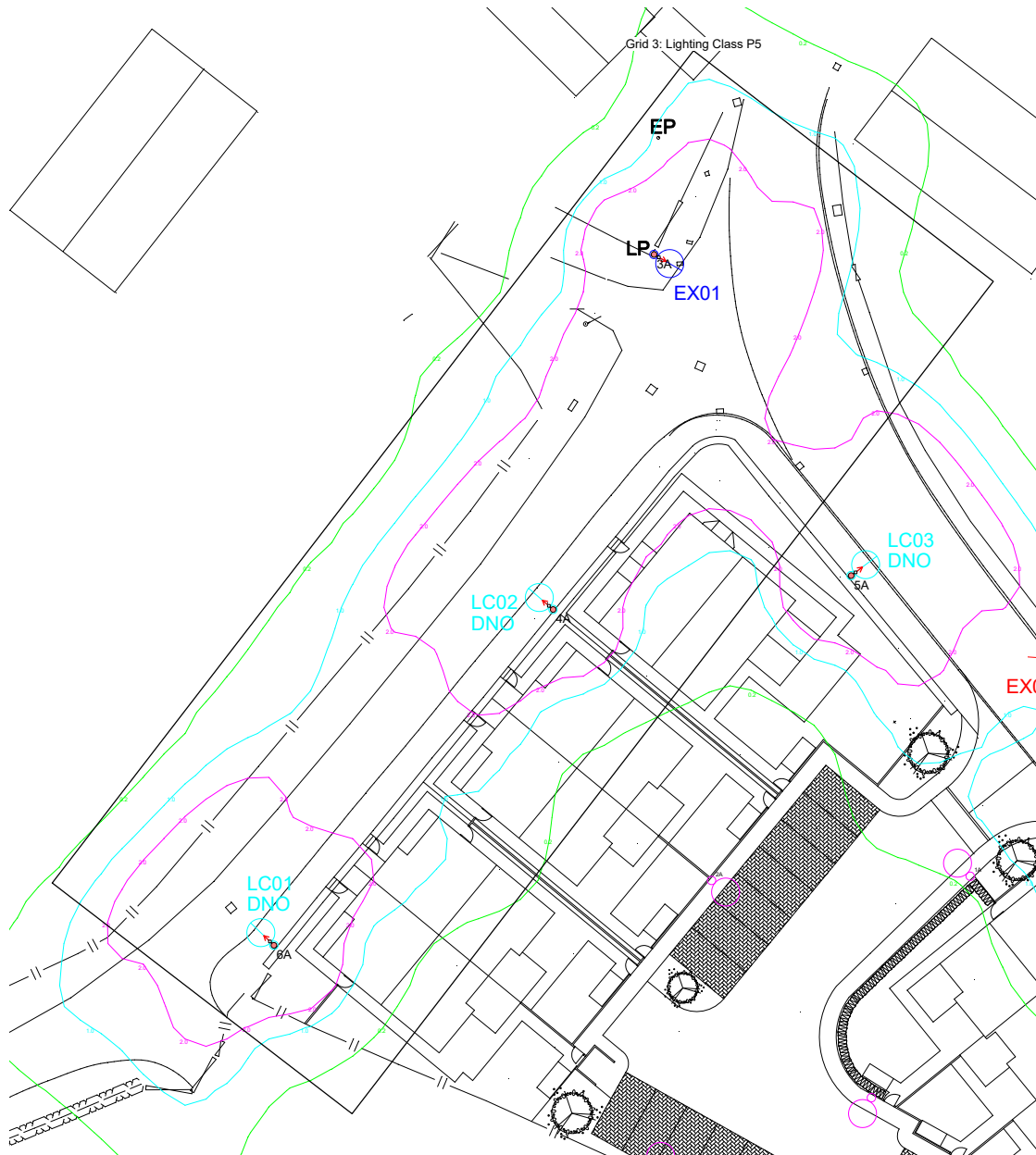


Results

Eav	3.47
Emin	0.96
Emax	11.72
Emin/Emax	0.08
Emin/Eav	0.28

Horizontal Illuminance (lux)

Grid 3: Lighting Class P5

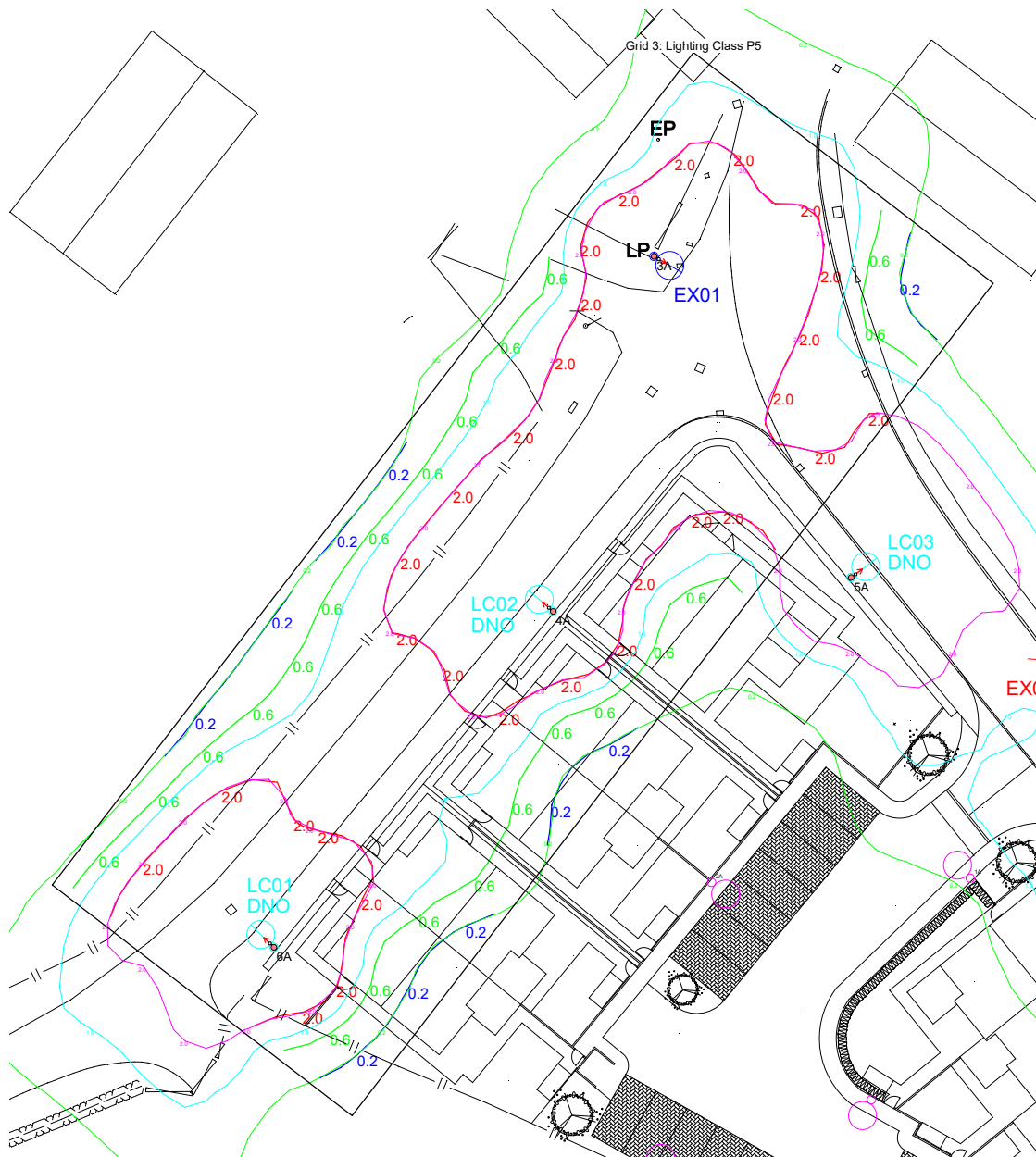


Results

Eav	3.48
Emin	0.80
Emax	11.38
Emin/Emax	0.07
Emin/Eav	0.23

Horizontal Illuminance (lux)

Grid 3: Lighting Class P5



Results

Eav	3.48
Emin	0.80
Emax	11.38
Emin/Emax	0.07
Emin/Eav	0.23

Horizontal Illuminance (lux)

Grid 3: Lighting Class P5



Results

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