

DATE: 6 December 2023
DESIGNER: SHD Lighting Consultancy Ltd
PROJECT No: SHD1284
PROJECT NAME: St Marys Avenue, Wrexham



CAD layout reference: 1522-sit-P01 - site layout rev M

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
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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	337494.53	341680.31	258.00	283.39	1.50	1.50
2	Grid 2: Lighting Class P5	337559.20	341762.63	100.42	54.00	1.50	1.50
3	Grid 3: Lighting Class P5	337661.46	341758.20	57.00	55.50	1.50	1.50
4	Grid 4: Lighting Class P5	337645.05	341811.43	36.00	93.00	1.50	1.50
5	Grid 5: Lighting Class P5	337542.86	341871.22	69.00	48.00	1.50	1.50

Luminaires



Luminaire A Data

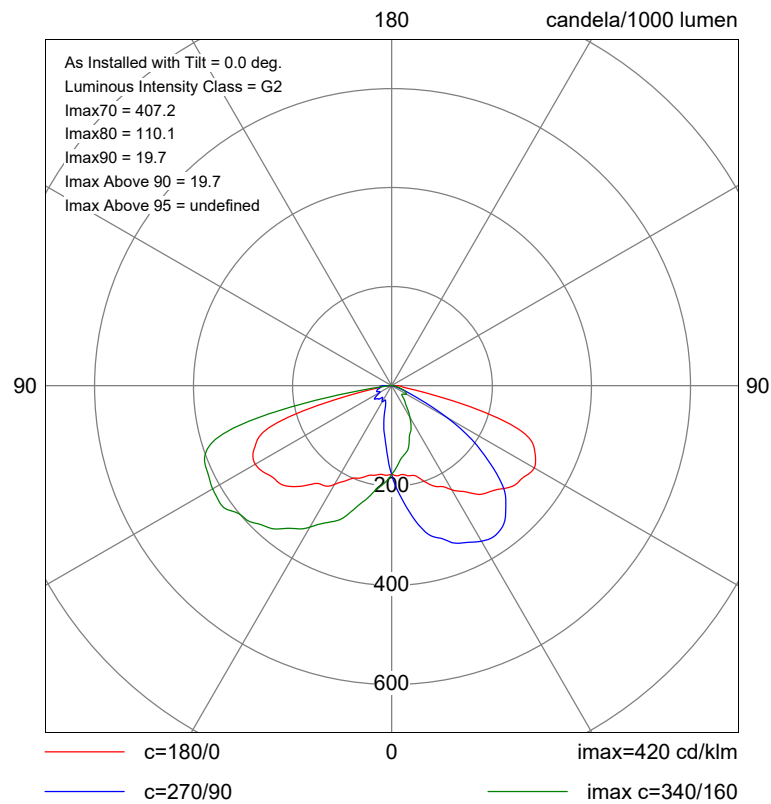
Supplier	Vision Illumination
Type	LKD-VAL-95050SP
Lamp(s)	1465 lm, 9 W
Lamp Flux (klm)	1.47
File Name	LKD-VAL-95050SP.IES
Maintenance Factor	0.84
Lum. Int. Class	G2
No. in Project	15

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	337566.39	341807.42	6.00	260.00	0.00	0.00	0.40			
2	A	337590.92	341794.58	6.00	96.00	0.00	0.00	0.40			
3	A	337602.85	341812.08	6.00	338.00	0.00	0.00	0.40			
4	A	337620.65	341832.86	6.00	134.00	0.00	0.00	0.40			
5	A	337635.34	341838.46	6.00	37.00	0.00	0.00	0.40			
6	A	337623.10	341868.90	6.00	23.00	0.00	0.00	0.40			
7	A	337631.66	341891.88	6.00	135.00	0.00	0.00	0.40			
8	A	337604.14	341894.62	6.00	271.00	0.00	0.00	0.40			
9	A	337660.52	341828.70	6.00	216.00	0.00	0.00	0.40			
10	A	337676.60	341805.67	6.00	191.00	0.00	0.00	0.40			
11	A	337684.58	341781.41	6.00	81.00	0.00	0.00	0.40			
12	A	337662.58	341793.70	6.00	265.00	0.00	0.00	0.40			
13	A	337573.39	341888.77	6.00	86.00	0.00	0.00	0.40			
14	A	337566.51	341902.84	6.00	172.00	0.00	0.00	0.40			
15	A	337557.06	341885.68	6.00	350.00	0.00	0.00	0.40			

Polar Diagram

Luminaire A LKD-VAL-95050SP



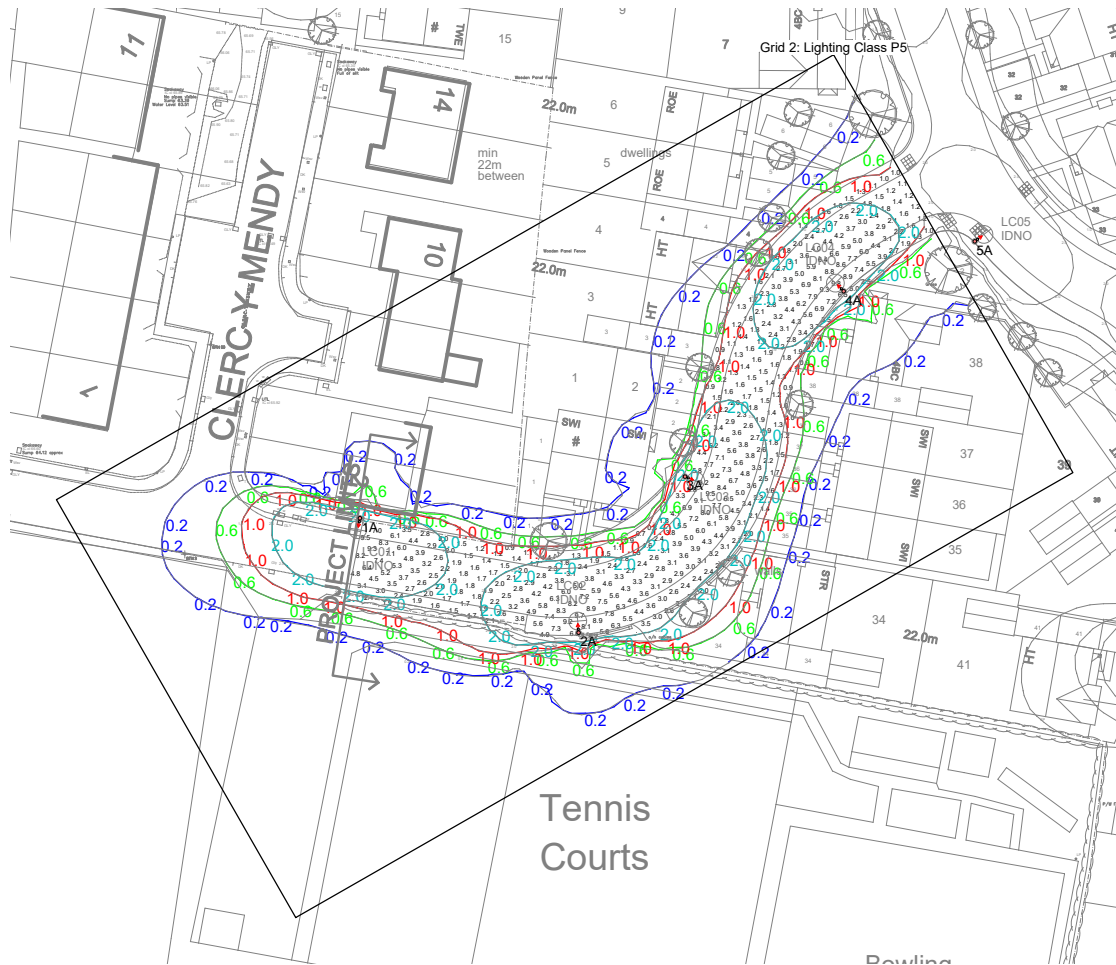
Horizontal Illuminance (lux)

Grid 1: Whole Area



Horizontal Illuminance (lux)

Grid 2: Lighting Class P5

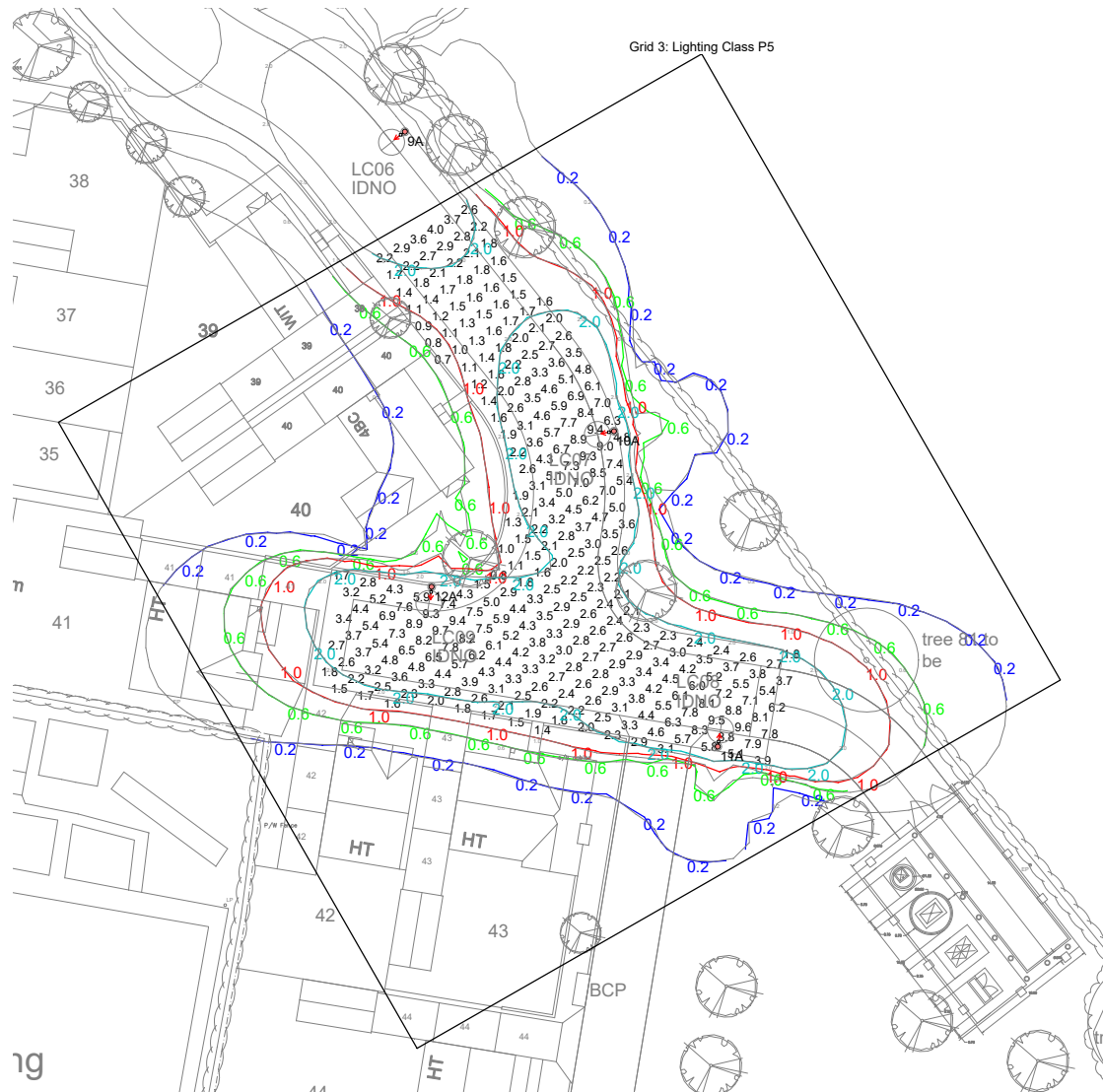


Results

Eav	3.49
Emin	0.68
Emax	9.78
Emin/Emax	0.07
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 3: Lighting Class P5

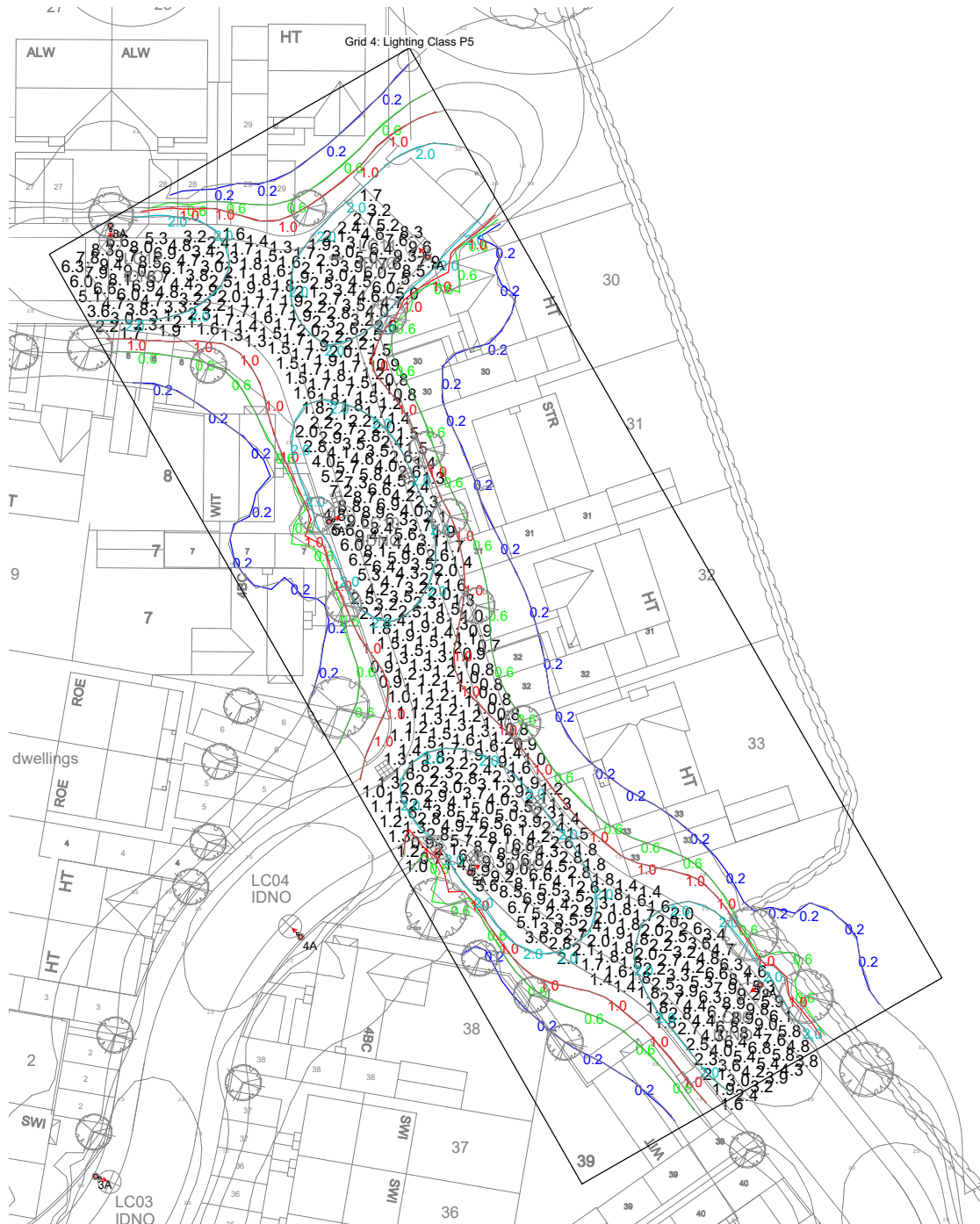


Results

Eav	3.73
Emin	0.74
Emax	9.65
Emin/Emax	0.08
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 4: Lighting Class P5

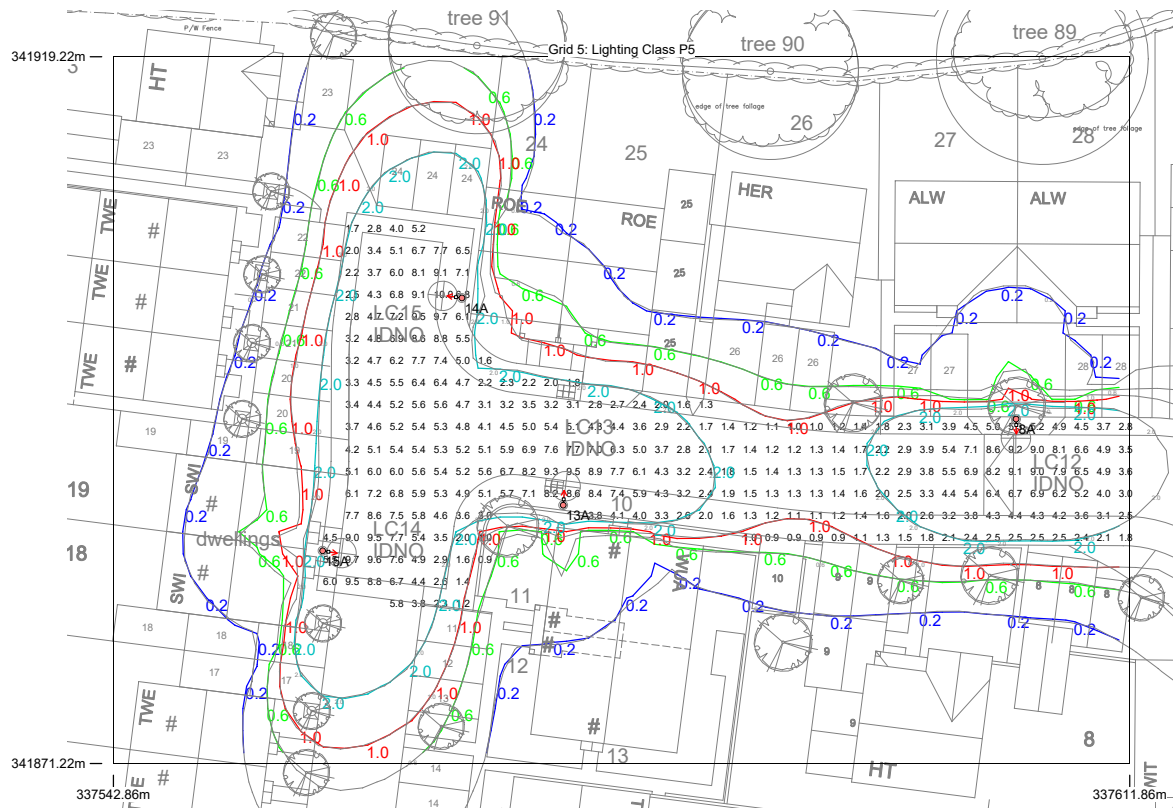


Results

Eav	3.38
Emin	0.69
Emax	9.79
Emin/Emax	0.07
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 5: Lighting Class P5



Results

Eav	4.37
Emin	0.86
Emax	9.96
Emin/Emax	0.09
Emin/Eav	0.20