

DATE: 26 June 2024
DESIGNER: SHD Lighting Consultancy Ltd
PROJECT No: SHD1609
PROJECT NAME: Rheda, Phase 2



CAD layout reference: AA7281-08- SLdwg

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

Minimum maintained average illuminance (Eav): >3.00 < 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	302563.54	516749.40	266.85	159.00	1.50	1.50
2	Grid 2: Lighting Class P5	302620.80	516797.01	60.00	51.00	1.50	1.50
3	Grid 3: Lighting Class P5	302677.60	516793.73	54.00	71.79	1.50	1.50
4	Grid 4: Lighting Class P5	302728.38	516824.56	45.00	48.00	1.50	1.50

Luminaires



Luminaire A Data

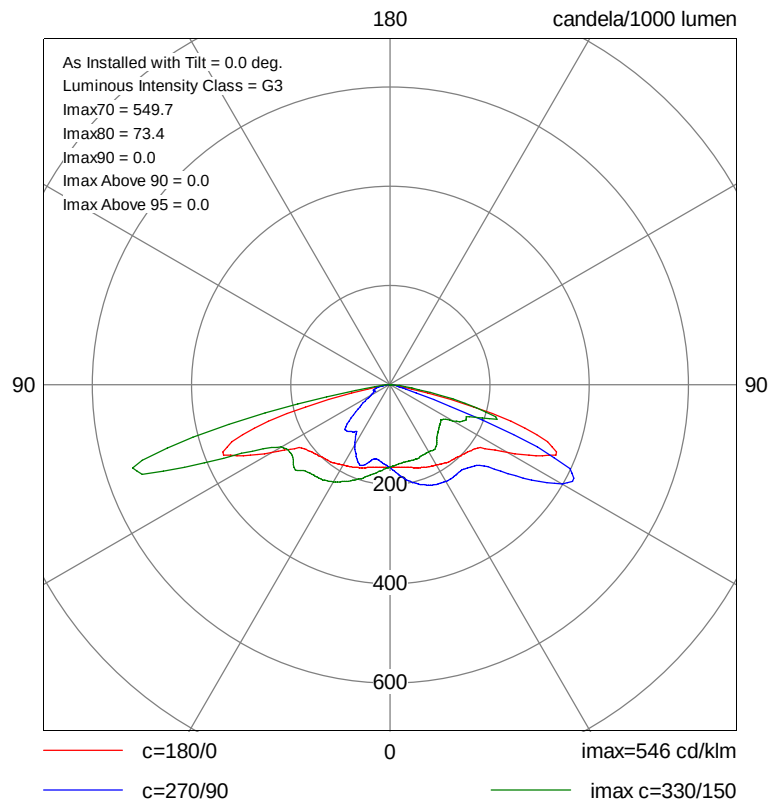
Supplier	Thorn Lighting UK & Ireland
Type	Isaro Pro Small 12LED 350mA EWR optic
Lamp(s)	LED 3000K CRI 70
LampFlux(klm)/Colour	1.87 3000/70
File Name	IP12L35EWR730.LDT
Maintenance Factor	0.84
Lum. Int. Class	G3
No. in Project	9

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	302699.40	516807.57	6.00	16.00	0.00	0.00	0.40			
2	A	302688.25	516823.31	6.00	67.00	0.00	0.00	0.40			
3	A	302640.20	516806.96	6.00	129.00	0.00	0.00	0.40			
4	A	302712.33	516831.19	6.00	154.00	0.00	0.00	0.40			
5	A	302631.95	516826.85	6.00	213.00	0.00	0.00	0.40			
6	A	302712.01	516854.50	6.00	207.00	0.00	0.00	0.40			
7	A	302732.63	516842.89	6.00	109.00	0.00	0.00	0.40			
8	A	302661.85	516825.81	6.00	130.00	0.00	0.00	0.40			
9	A	302759.44	516853.78	6.00	162.00	0.00	0.00	0.40			

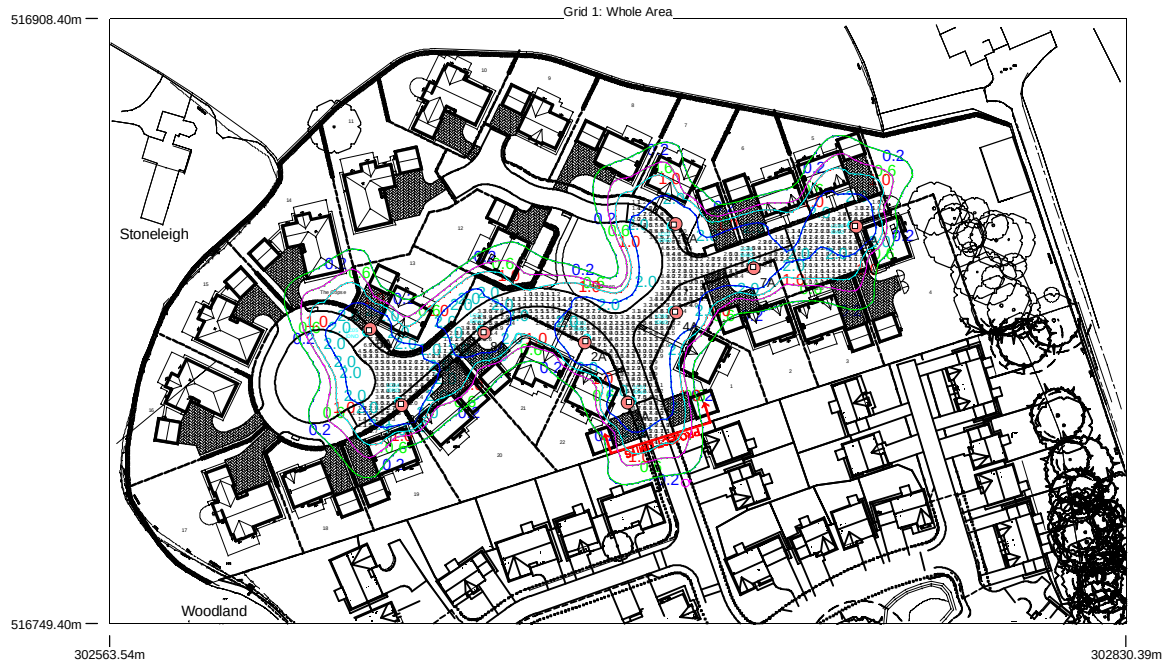
Polar Diagram

Luminaire A Isaro Pro Small 12LED 350mA EWR optic



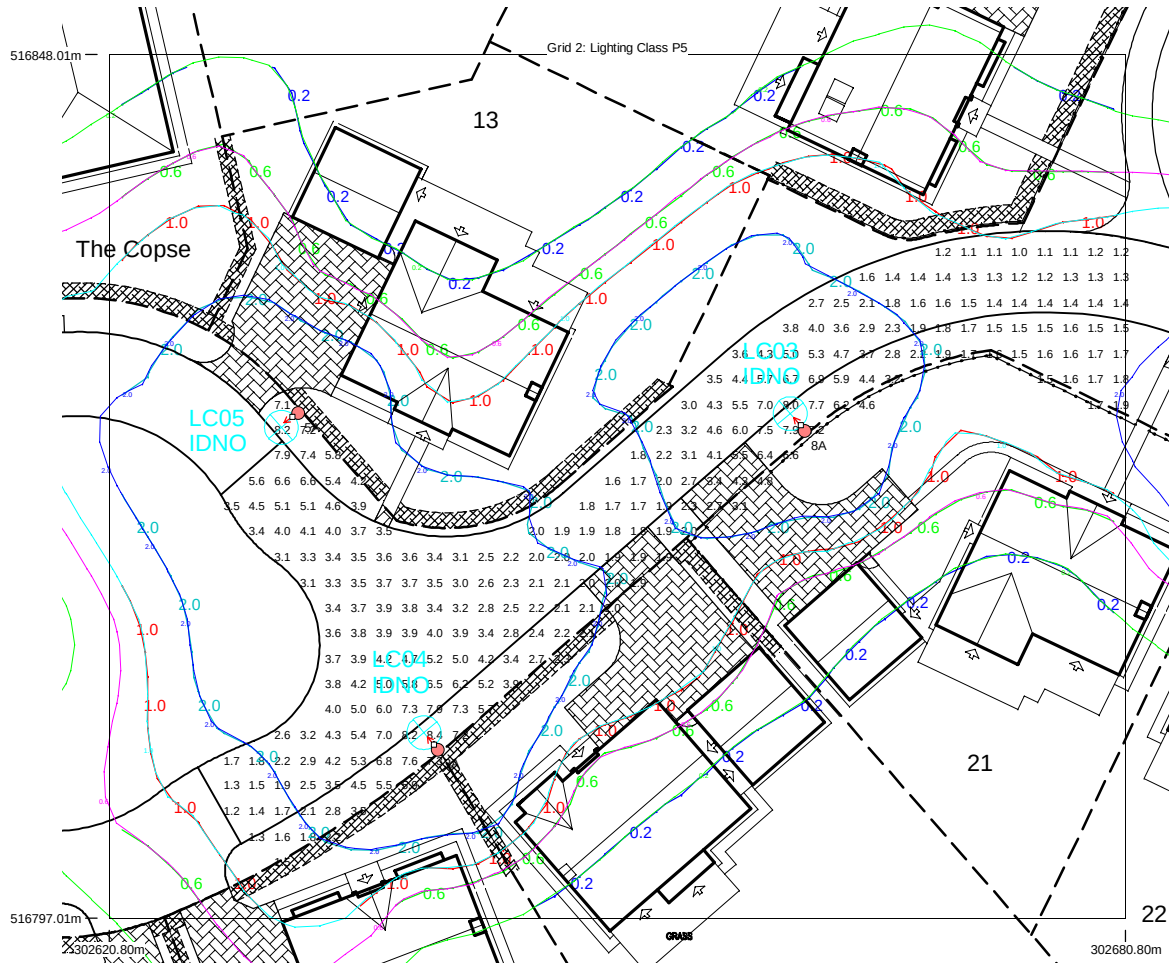
Horizontal Illuminance (lux)

Grid 1: Whole Area



Horizontal Illuminance (lux)

Grid 2: Lighting Class P5

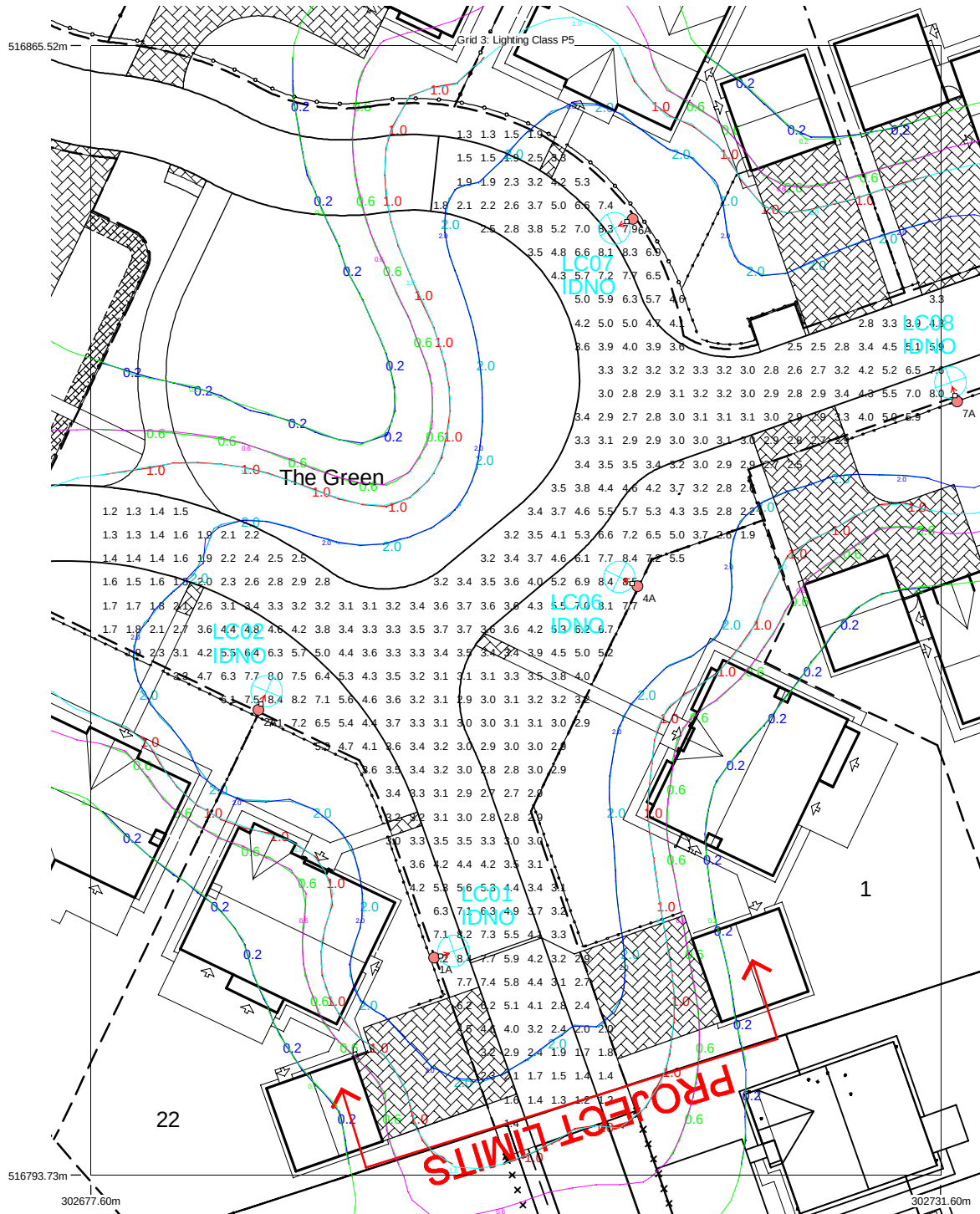


Results

Eav	3.39
Emin	1.04
Emax	8.37
Emin/Emax	0.12
Emin/Eav	0.31

Horizontal Illuminance (lux)

Grid 3: Lighting Class P5

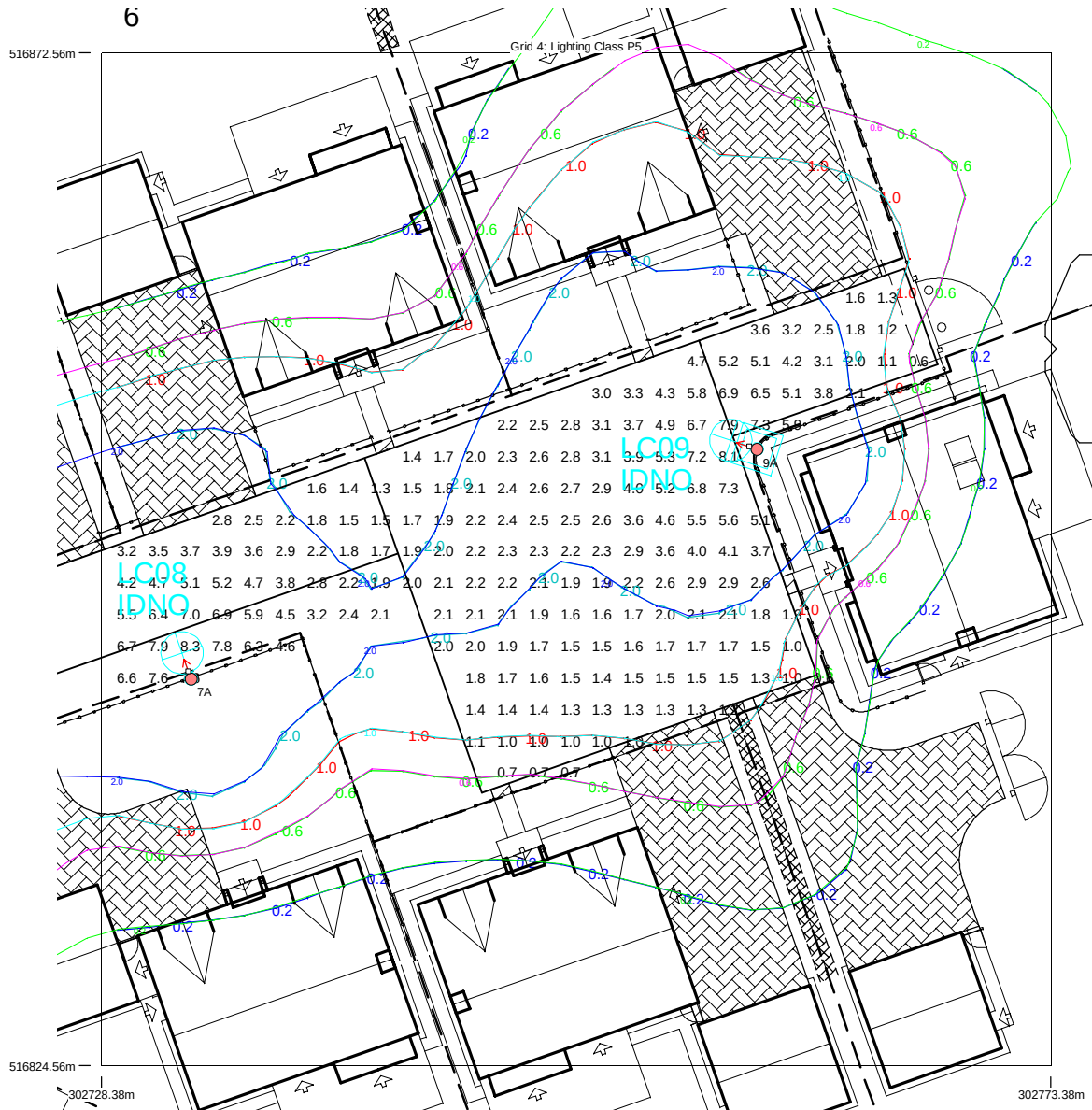


Results

Eav	3.84
Emin	1.16
Emax	8.52
Emin/Emax	0.14
Emin/Eav	0.30

Horizontal Illuminance (lux)

Grid 4: Lighting Class P5



Results

Eav	3.01
Emin	0.60
E _{max}	8.27
Emin/E _{max}	0.07
Emin/Eav	0.20