

DATE: 11 April 2024
DESIGNER: SHD Lighting Consultancy Ltd
PROJECT No: SHD1345
PROJECT NAME: High Street East, Glossop



CAD layout reference: SCP-230070-0000-001 - Rev B - General Arrangements
(Bound)

High Street East 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%)

Existing four 10m columns, each with post top mounted DW Windsor Kirium Pro 1
luminaire.

Derbyshire County Council to provide info on current installed luminaires.

Milltown 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

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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: Lighting Class P4	403823.83	394081.90	160.40	66.99	0.95	0.36
2	Grid 2: Lighting Class P5	403866.15	393923.06	77.87	177.00	1.50	1.50
3	Grid 3: Whole Area	403770.31	393933.26	258.76	264.74	1.50	1.50

Luminaires

Luminaire A Data



Supplier	D W Windsor
Type	KIRIUM PRO1 16LED 4k A1 650mA UMSUG 42 0030 0000 100
Lamp(s)	16 x 4k LED
Lamp Flux (klm)	4.88
File Name	KIRIUM PRO1 16LED 4k A1_650mA UMSUG 42 0030 0000 100.ies
Maintenance Factor	0.83
Lum. Int. Class	None
No. in Project	4

Luminaire B Data



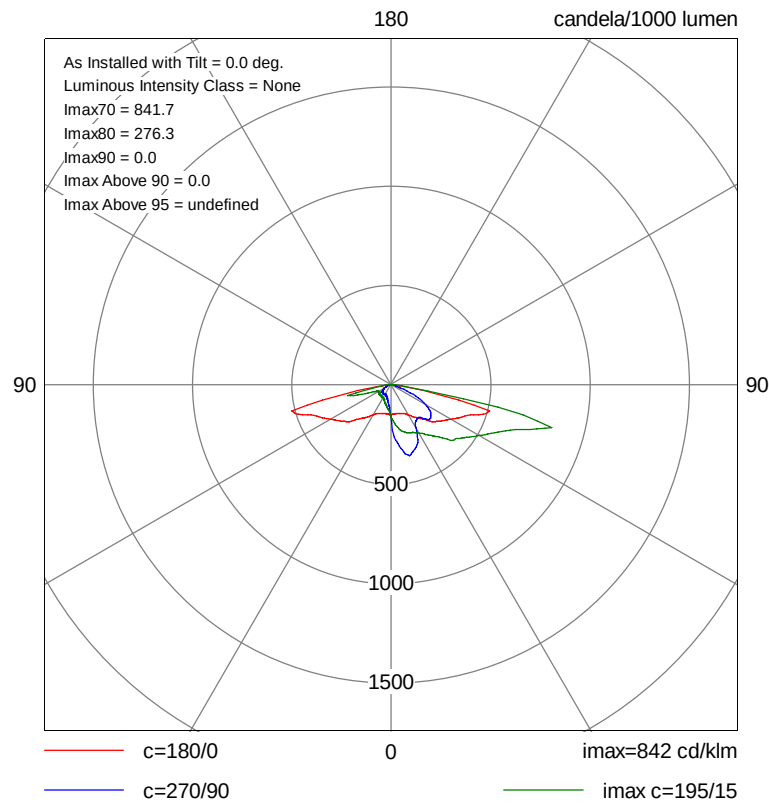
Supplier	Urbis Schreder
Type	AXIA 3.1 5270 Integrated lenses 8 OSLO S SQUARE GIANT@400mA W
Lamp(s)	8 OSLO S SQUARE GIANT@400mA WW 730 230V 01-37-041
LampFlux(klm)/Colour	1.36 WW 3000K/70
File Name	AXIA 3.1 5270 8 OSLO S SQUARE GIANT 40 0mA WW 730 11W 429112 Integrated lenses...
Maintenance Factor	0.83
Lum. Int. Class	G3
No. in Project	5

Layout

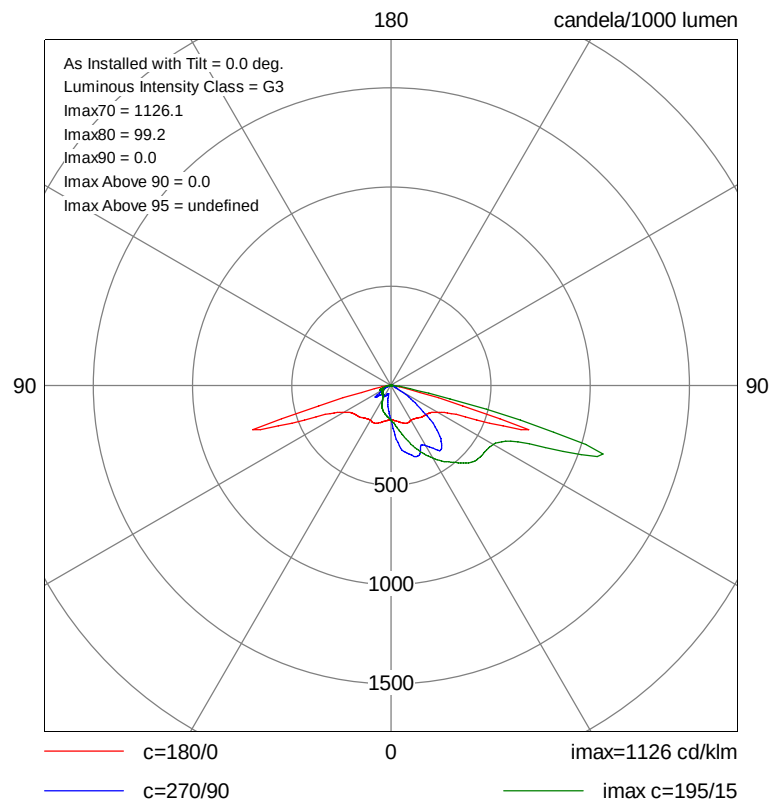
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	403917.15	394175.75	10.00	302.00	0.00	0.00	0.40			
2	A	403888.95	394158.70	10.00	302.00	0.00	0.00	0.40			
3	A	403854.29	394137.16	10.00	303.00	0.00	0.00	0.40			
4	A	403826.40	394109.94	10.00	118.00	0.00	0.00	0.40			
5	B	403822.96	394070.88	6.00	253.00	0.00	0.00	0.40			
6	B	403862.18	394053.43	6.00	236.00	0.00	0.00	0.40			
7	B	403875.84	394025.98	6.00	205.00	0.00	0.00	0.40			
8	B	403889.39	393991.31	6.00	204.00	0.00	0.00	0.40			
9	B	403903.54	393956.79	6.00	203.00	0.00	0.00	0.40			

Polar Diagrams

Luminaire A KIRIUM PRO1 16LED 4k A1 650mA UMSUG 42 0030 0000 100

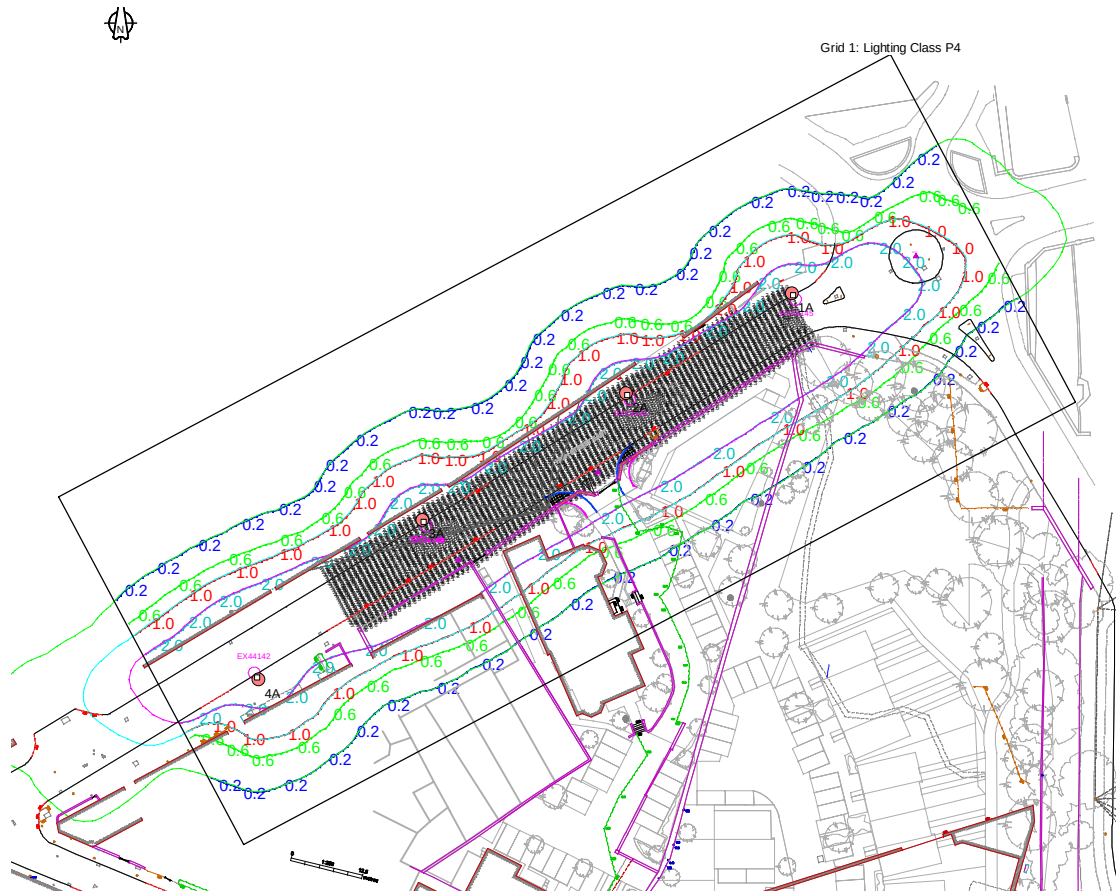


Luminaire B AXIA 3.1 5270 Integrated lenses 8 OSLO SQUARE GIANT@400mA W



Horizontal Illuminance (lux)

Grid 1: Lighting Class P4

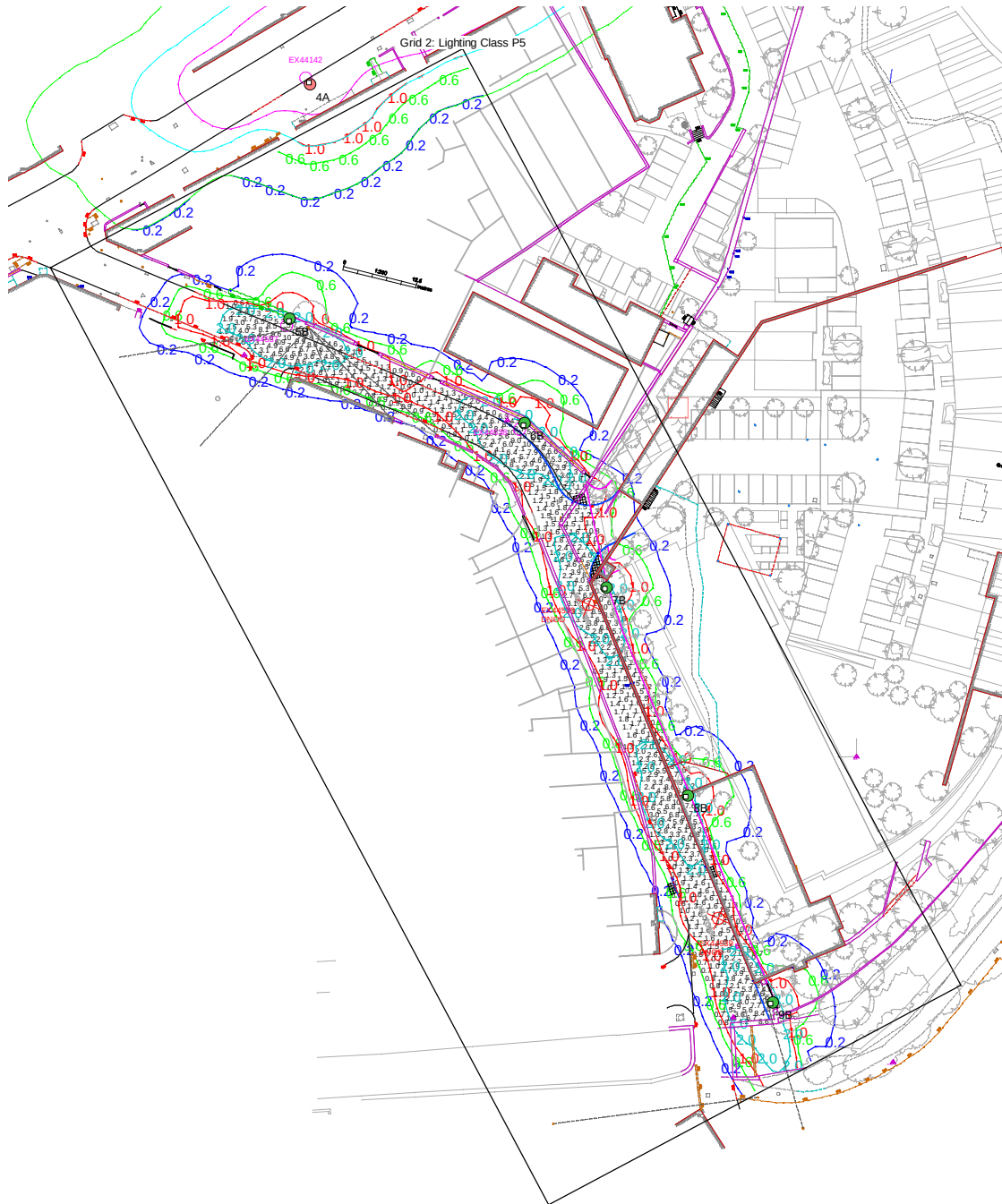


Results

Eav	5.28
Emin	1.19
Emax	14.39
Emin/Emax	0.08
Emin/Eav	0.22

Horizontal Illuminance (lux)

Grid 2: Lighting Class P5



Results

Eav	3.00
Emin	0.58
Emax	10.41
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 3: Whole Area

