

DATE: 26 August 2025
DESIGNER: SHD Lighting Consultancy Ltd
PROJECT No: SHD1843
PROJECT NAME: Bealey Industrial Estate



CAD layout reference: 1025 - Bealey Ind Est - Proposed Site Layout - Current

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%)

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	379608.25	407894.61	277.40	353.54	1.50	1.50
2	Grid 2: Lighting Class P4	379696.97	407916.99	87.00	131.69	1.50	1.50
3	Grid 3: Lighting Class P4	379737.63	408059.42	42.00	119.72	1.50	1.50
4	Grid 4: Lighting Class P4	379664.08	408174.78	141.00	81.00	1.50	1.50

Luminaires



Luminaire A Data

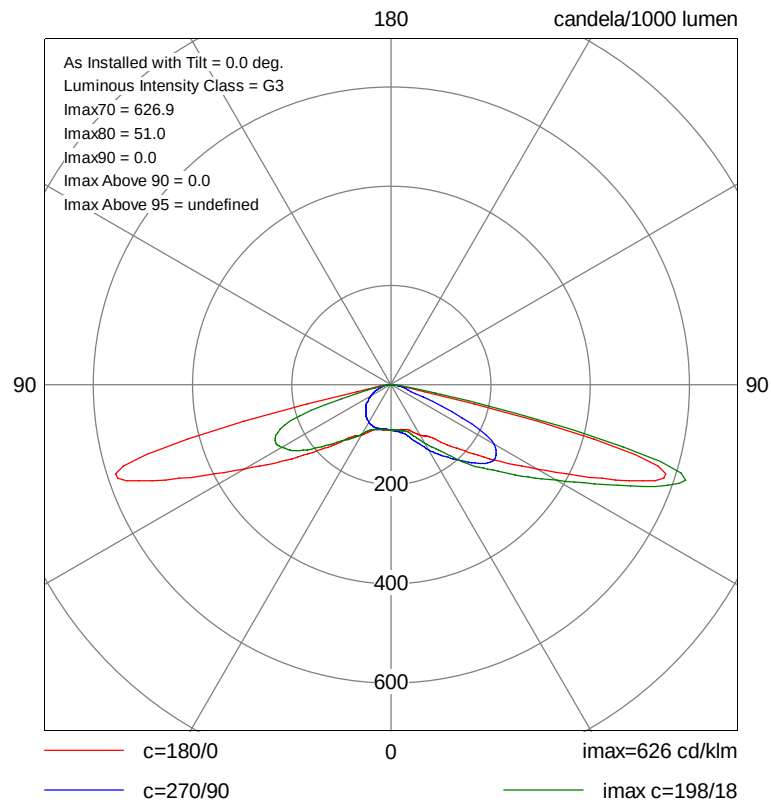
Supplier	Philips
Type	BGP760_DW50_6000_20LED_5.1S_CLO_L9 0_NW.ies
Lamp(s)	LED-HB 5.1S NW
Lamp Flux (klm)	6.00
File Name	DigiStreet Micro _BGP760_DW50_6000_20L ED_5.1S_CLO_L90_NW.ies
Maintenance Factor	0.84
Lum. Int. Class	G3
No. in Project	14

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out- reach	Dimmed to	Target X	Target Y	Target Z
1	A	379750.78	407927.94	6.00	70.00	0.00	0.00	0.40	70%			
2	A	379732.93	407949.75	6.00	333.00	0.00	0.00	0.40	70%			
3	A	379744.22	407979.93	6.00	344.00	0.00	0.00	0.40	70%			
4	A	379761.58	408010.21	6.00	163.00	0.00	0.00	0.40	70%			
5	A	379764.34	408051.44	6.00	174.00	0.00	0.00	0.40	70%			
6	A	379813.29	408104.51	6.00	134.00	0.00	0.00	0.40	70%			
7	A	379721.47	408203.30	6.00	269.00	0.00	0.00	0.40	70%			
8	A	379797.66	408122.84	6.00	222.00	0.00	0.00	0.40	70%			
9	A	379780.35	408084.85	6.00	312.00	0.00	0.00	0.40	70%			
10	A	379778.51	408142.46	6.00	222.00	0.00	0.00	0.40	70%			
11	A	379736.88	408120.38	6.00	343.00	0.00	0.00	0.40	70%			
12	A	379754.82	408136.78	6.00	314.00	0.00	0.00	0.40	70%			
13	A	379727.07	408181.52	6.00	45.00	0.00	0.00	0.40	70%			
14	A	379756.38	408164.79	6.00	218.00	0.00	0.00	0.40	70%			

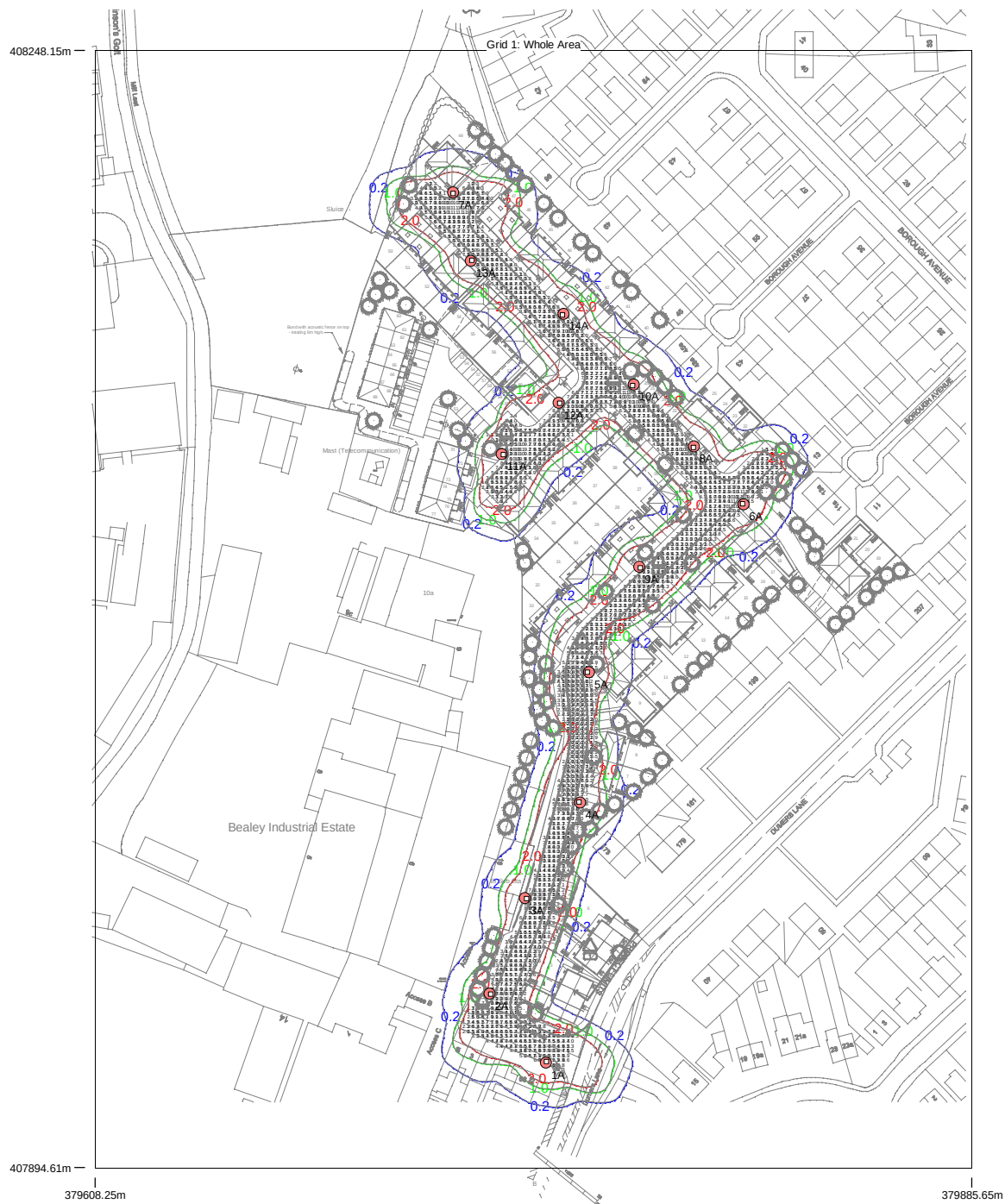
Polar Diagram

Luminaire A BGP760 DW50 6000 20LED 5.1S CLO L90 NW.ies



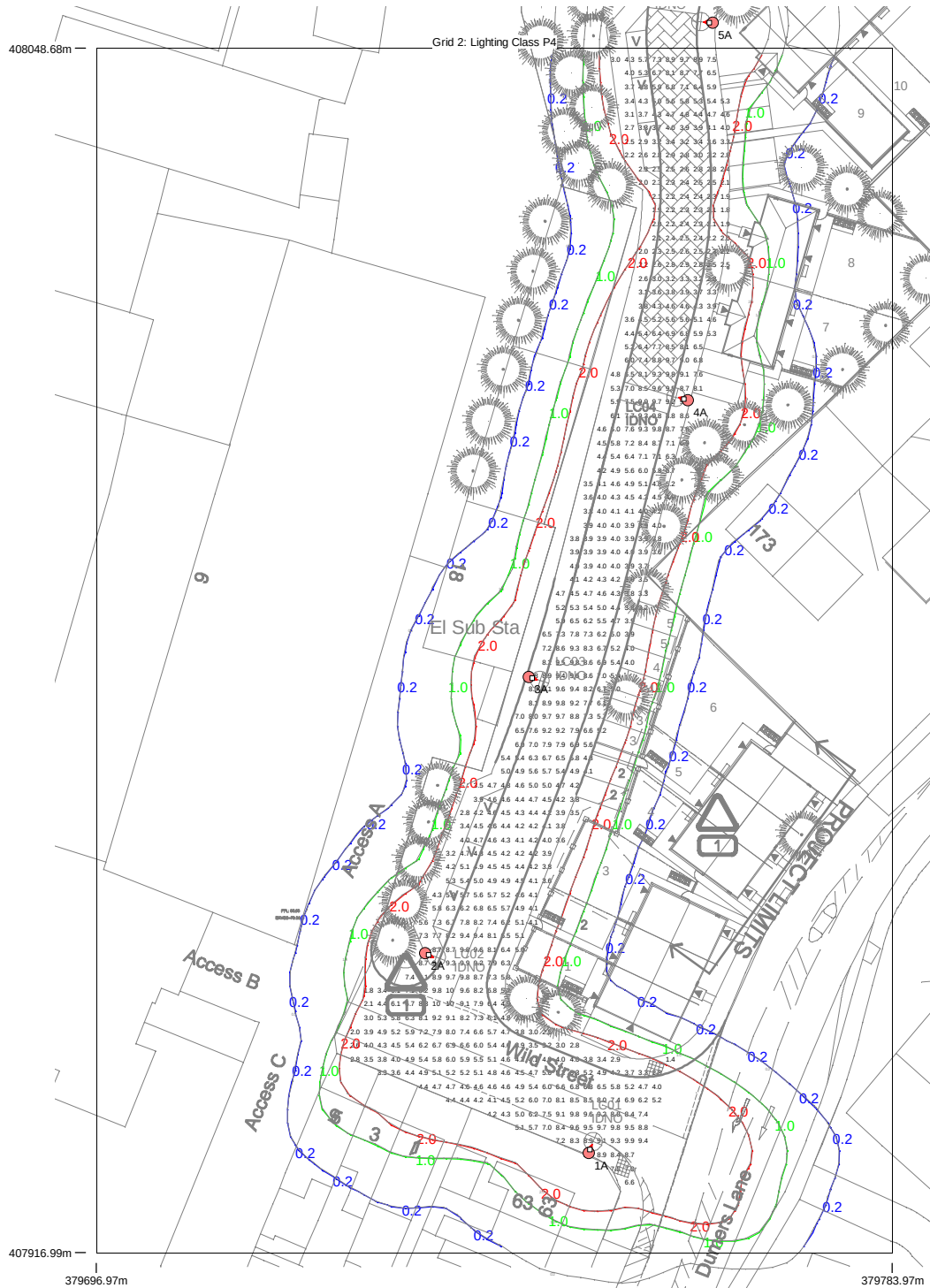
Horizontal Illuminance (lux)

Grid 1: Whole Area



Horizontal Illuminance (lux)

Grid 2: Lighting Class P4

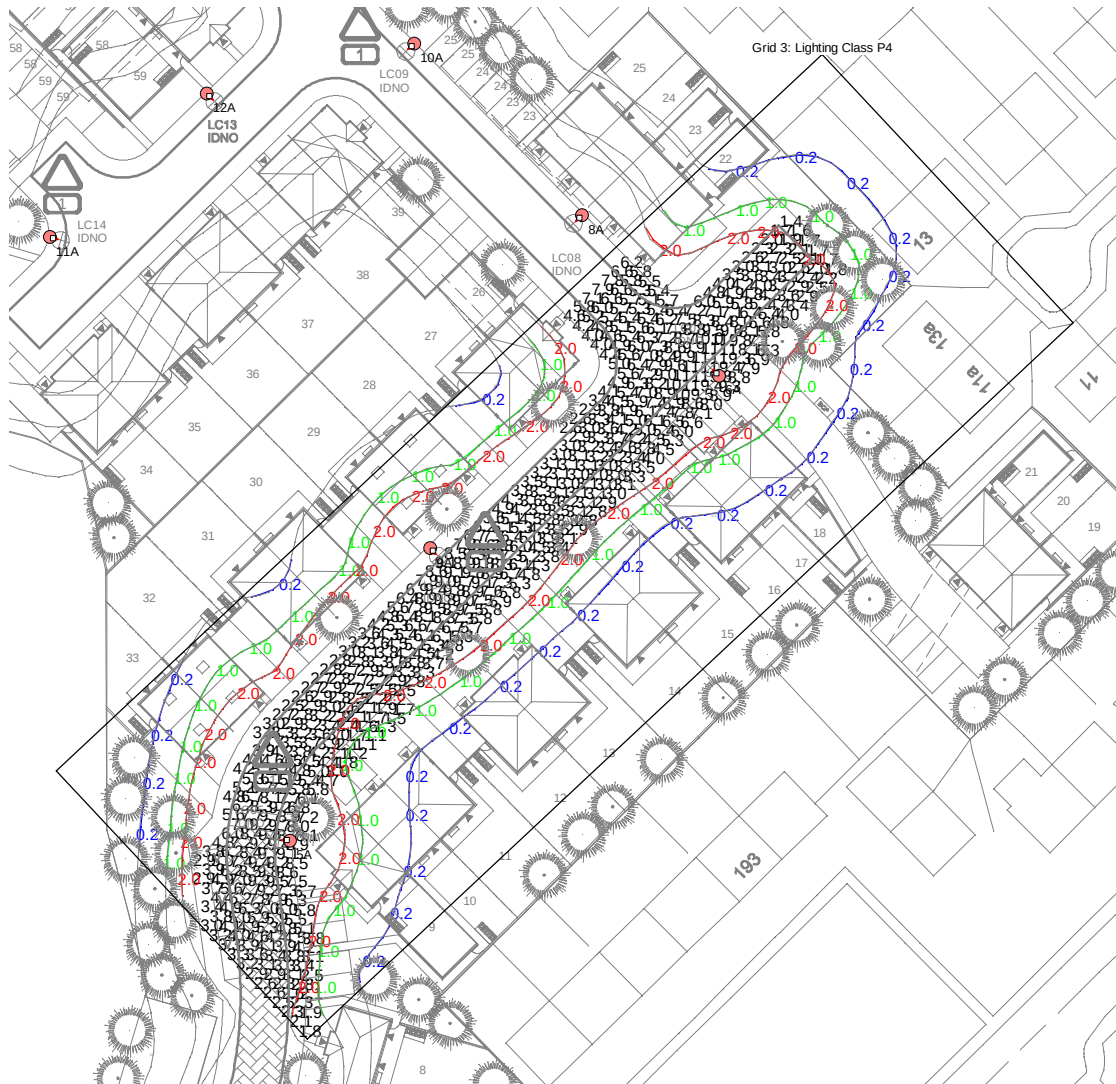


Results

Eav	5.50
Emin	1.36
Emax	10.14
Emin/Emax	0.13
Emin/Eav	0.25

Horizontal Illuminance (lux)

Grid 3: Lighting Class P4



Results

Eav	5.25
Emin	1.09
Emax	10.83
Emin/Emax	0.10
Emin/Eav	0.21

Horizontal Illuminance (lux)

Grid 4: Lighting Class P4



Results

Eav	6.78
Emin	1.32
Emax	11.35
Emin/Emax	0.12
Emin/Eav	0.20