

DATE: 19 August 2023
DESIGNER: SHD Lighting Consultancy Ltd
PROJECT No: SHD1049
PROJECT NAME: Neath Workingmens Club



LIGHTING CLASSIFICATION

This lighting design has been produced in accordance with:
Secured by Design, PCPI Guide to lighting & BS 5489-1: 2020

Minimum average illuminance (Eav): >10.00 lux
Lighting Uniformity (Emin/Eav): >0.40 (>40%)

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	275404.50	197661.03	63.00	75.00	1.50	1.50
2	Grid 2: Front Entrance	275432.93	197713.46	12.00	12.00	1.50	1.50
3	Grid 3: Side Entrance	275443.92	197691.19	14.99	27.00	1.50	1.50
4	Grid 4: Garden	275422.03	197672.85	18.00	36.00	1.50	1.50
5	Grid 5: Bin Area	275410.74	197700.81	15.00	21.00	1.50	1.50

Luminaires



Luminaire A Data

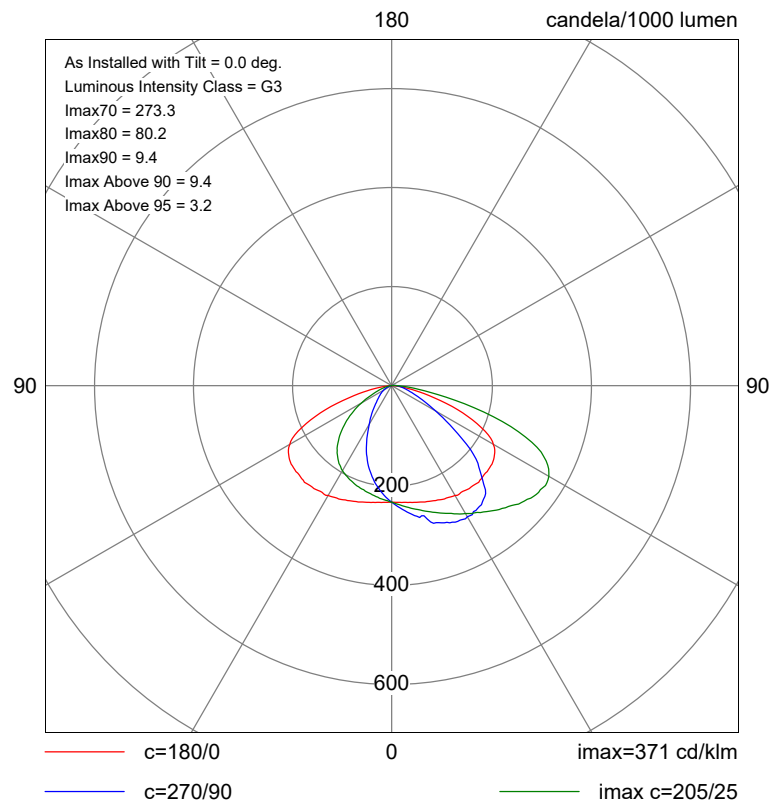
Supplier	Urbis Schreder
Type	INDU WALL PACK 2 EM 6550 48 LM302D @ 15mA NW 840 230V
Lamp(s)	48 LM302D@15mA NW 840 230V
Lamp Flux (klm)	0.58
File Name	INDU WALL PACK 2 EM 6550 48 LM302D 15mA NW 840 4W 7x6 III-Short 450082 In...
Maintenance Factor	0.84
Lum. Int. Class	G3
No. in Project	15

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	275422.17	197713.47	3.00	114.00	0.00	0.00	0.20			
2	A	275429.08	197703.77	3.00	292.00	0.00	0.00	0.20			
3	A	275419.47	197711.52	3.00	194.00	0.00	0.00	0.20			
4	A	275424.14	197703.01	3.00	267.00	0.00	0.00	0.20			
5	A	275434.42	197698.32	3.00	206.00	0.00	0.00	0.20			
6	A	275436.63	197691.85	3.00	116.00	0.00	0.00	0.20			
7	A	275430.68	197691.98	3.00	116.00	0.00	0.00	0.20			
8	A	275427.57	197687.94	3.00	204.00	0.00	0.00	0.20			
9	A	275423.66	197683.69	3.00	195.00	0.00	0.00	0.20			
10	A	275438.69	197718.52	3.00	116.00	0.00	0.00	0.20			
11	A	275449.66	197708.44	3.00	24.00	0.00	0.00	0.20			
12	A	275449.13	197699.56	3.00	294.00	0.00	0.00	0.20			
13	A	275450.76	197703.60	3.00	23.00	0.00	0.00	0.20			
14	A	275425.36	197677.24	3.00	196.00	0.00	0.00	0.20			
15	A	275420.98	197705.61	3.00	194.00	0.00	0.00	0.20			

Polar Diagram

Luminaire A INDU WALL PACK 2 EM 6550 48 LM302D@15mA NW 840 230V



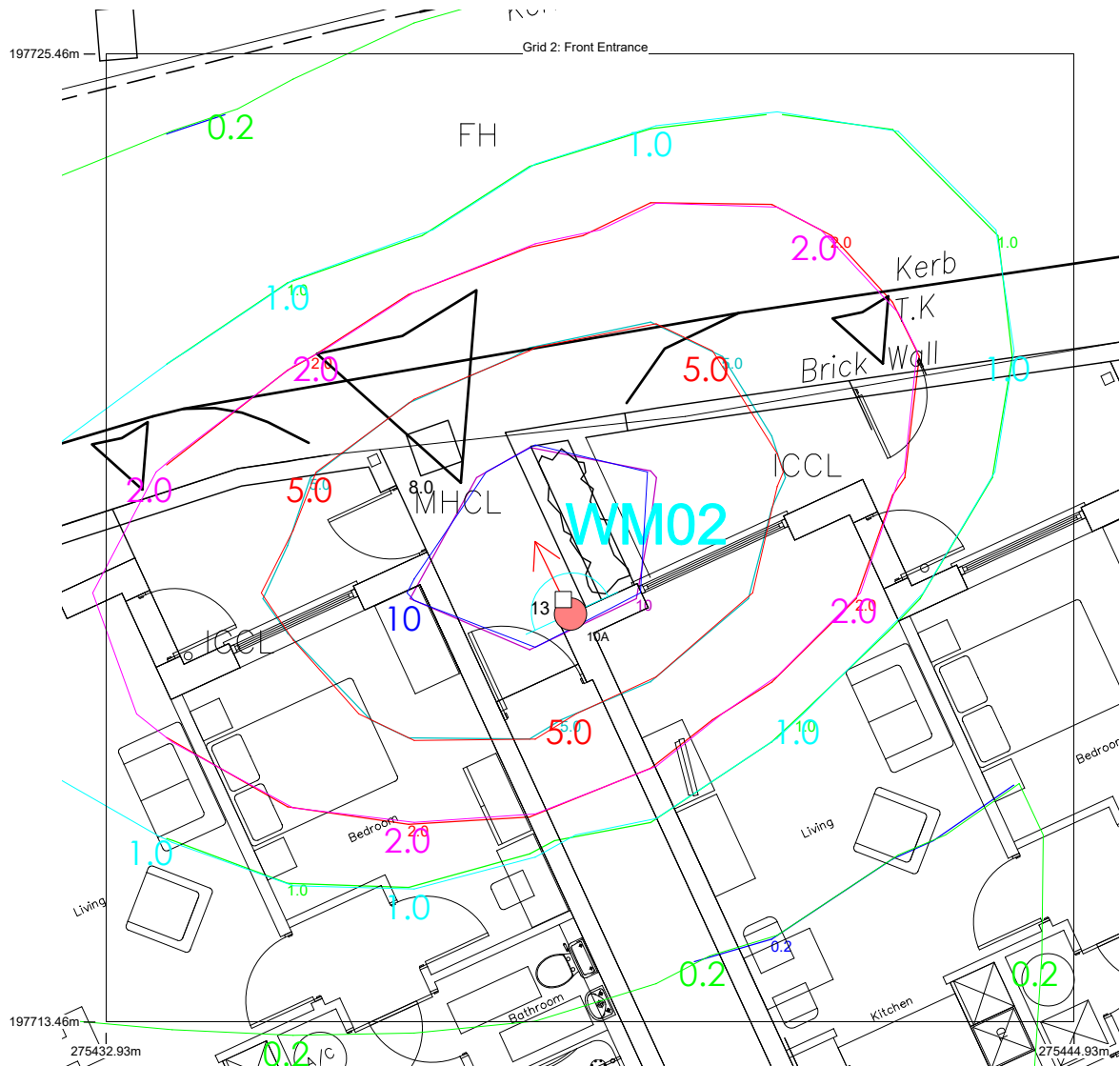
Horizontal Illuminance (lux)

Grid 1: Whole Area



Horizontal Illuminance (lux)

Grid 2: Front Entrance

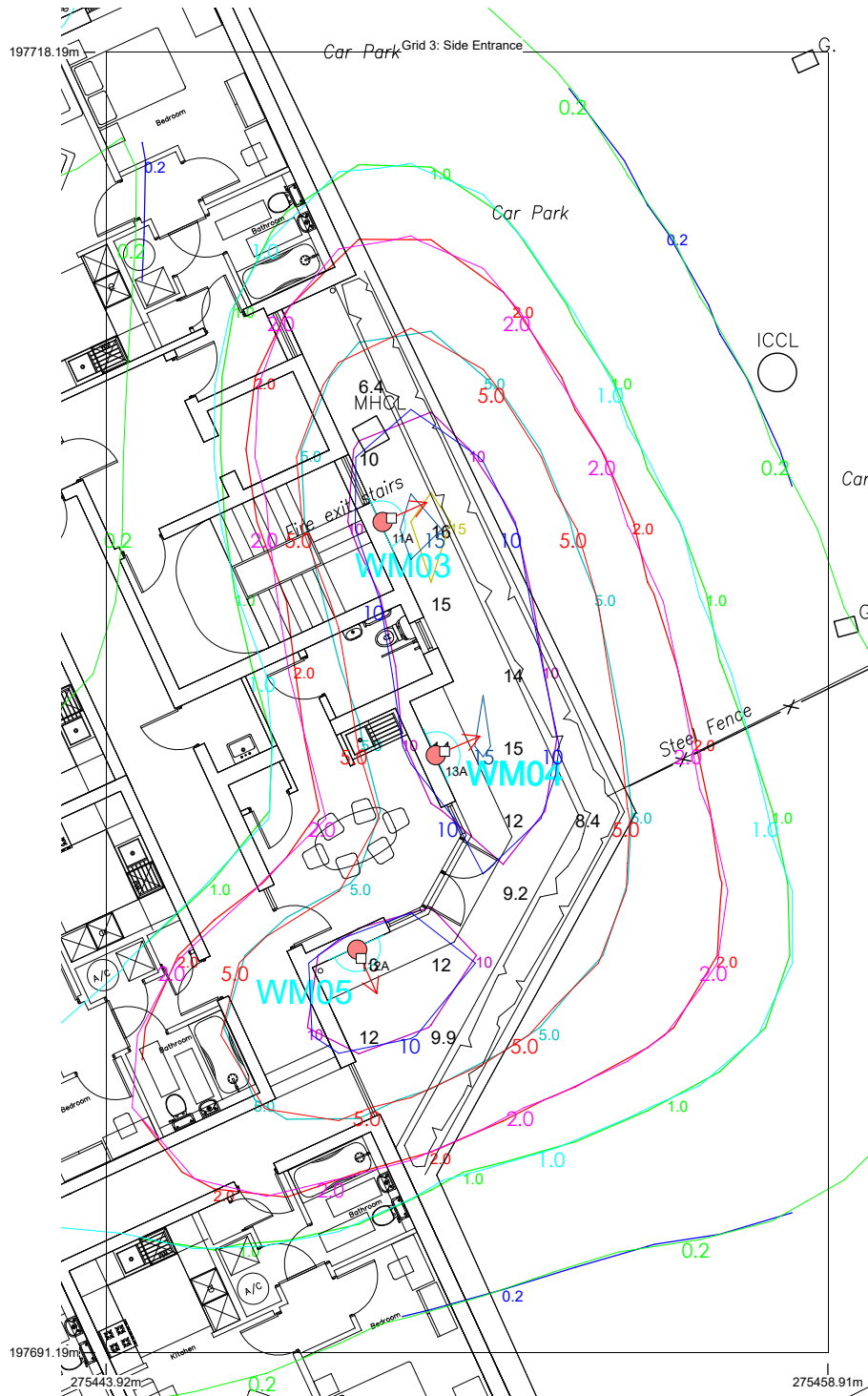


Results

Eav	10.54
Emin	7.98
Emax	13.11
Emin/Emax	0.61
Emin/Eav	0.76

Horizontal Illuminance (lux)

Grid 3: Side Entrance

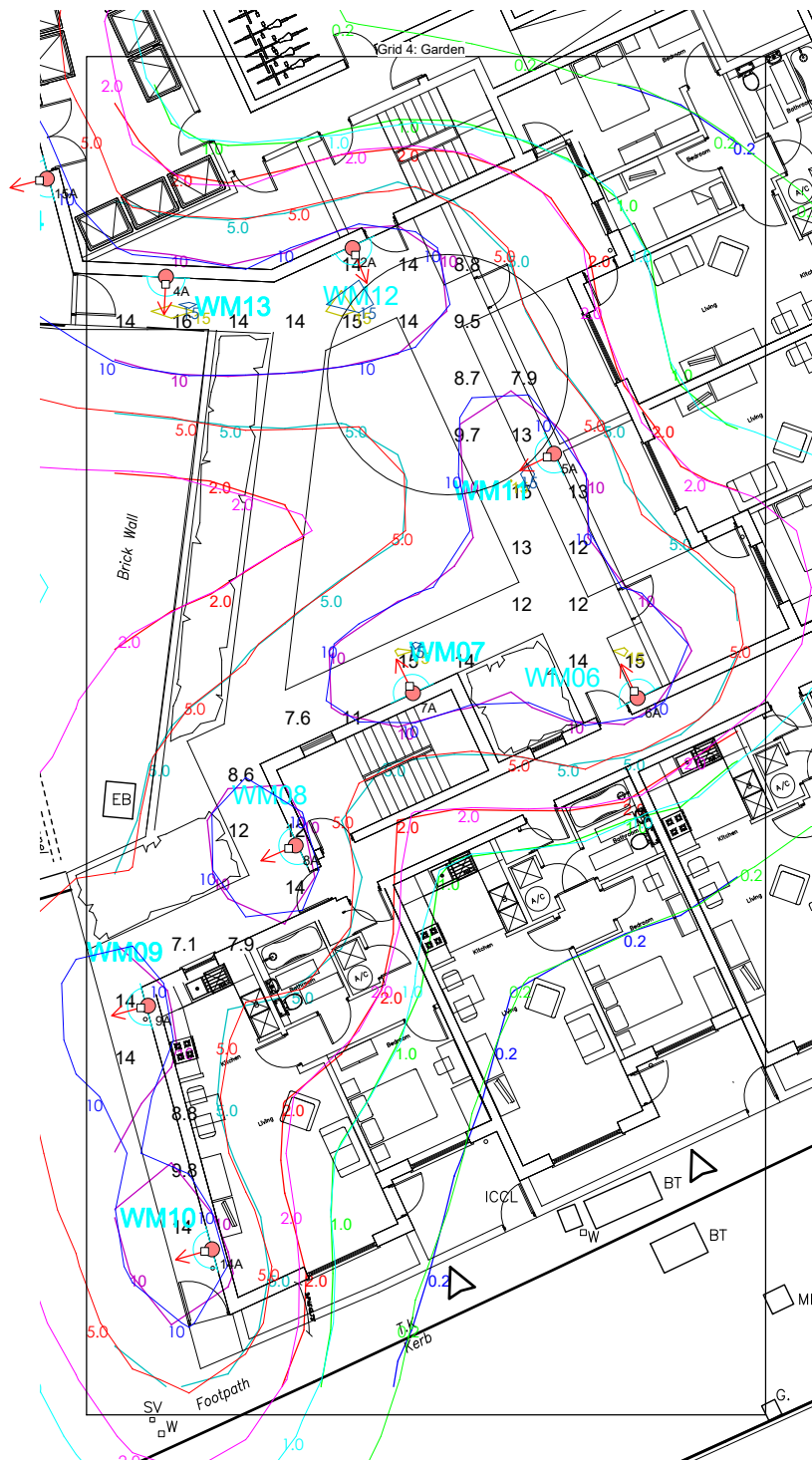


Results

Eav	11.93
Emin	6.39
Emax	16.43
Emin/Emax	0.39
Emin/Eav	0.54

Horizontal Illuminance (lux)

Grid 4: Garden

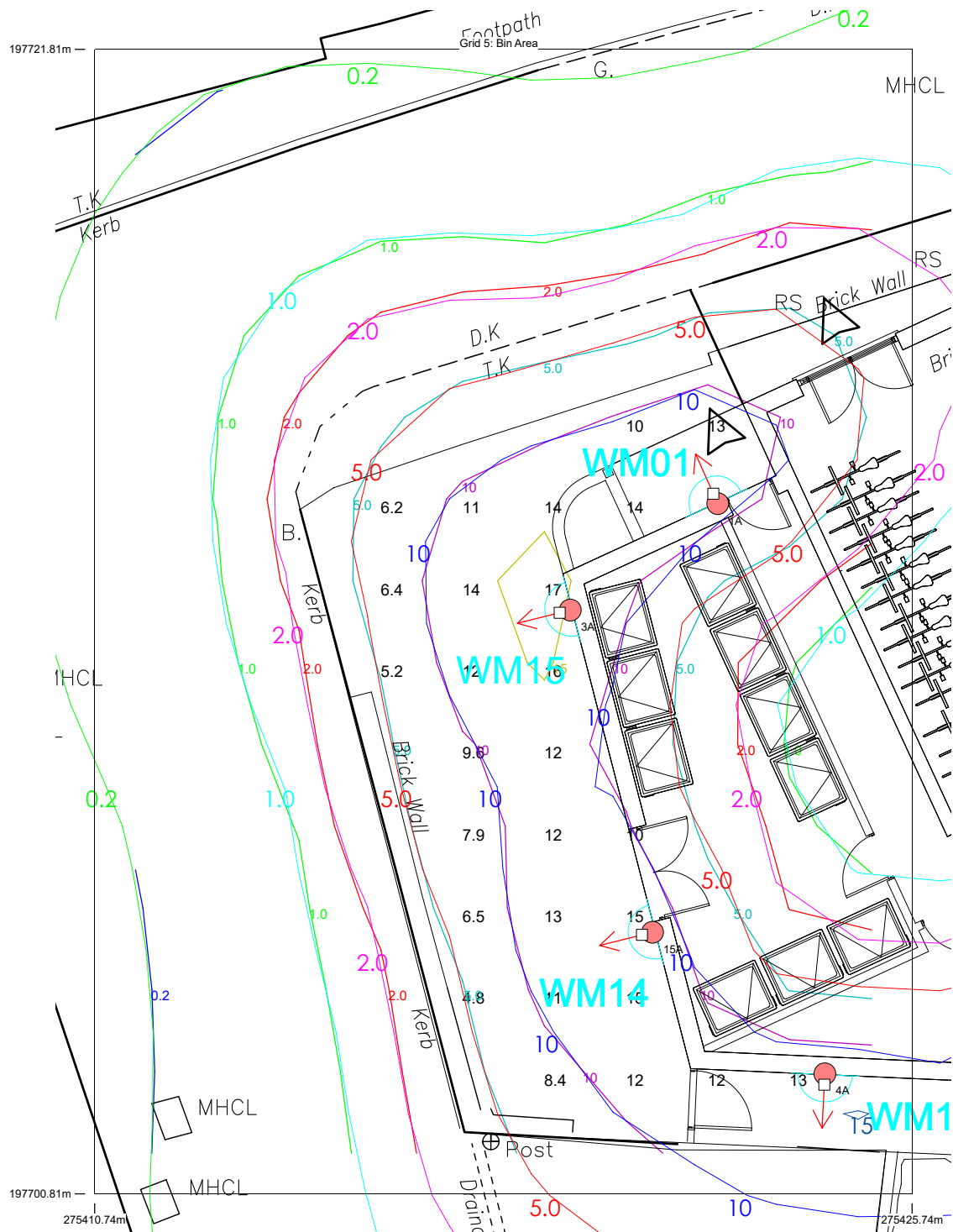


Results

Eav	12.08
Emin	7.06
Emax	15.60
Emin/Emax	0.45
Emin/Eav	0.58

Horizontal Illuminance (lux)

Grid 5: Bin Area



Results

Eav	11.19
Emin	4.82
Emax	16.97
Emin/Emax	0.28
Emin/Eav	0.43