

DATE: 12 March 2024
DESIGNER: MMA Lighting Consultancy Ltd
PROJECT No: MMA18541
PROJECT NAME: Land at St. Columba's, Gravesend DA12



Private Proposed Lighting Design R0

5m Lighting Columns with
Philips Luma Gen2 Micro 4000K LED Luminaires

BS5489-1:2020
Lighting Class: P5
Eav 3.00 - 4.50 Lux
Emin 0.60 Lux

Base drawing number used in this calculation 'SCC-BPTW-04-00-
M2-A-0210-C03-A3'

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	-37.12	39.86	15.00	60.00	1.50	1.50
2	Grid 2	0.41	34.74	24.00	57.00	1.50	1.50
3	Grid 3	-18.96	56.22	30.00	12.00	1.50	1.50
4	Contour Grid	-76.43	27.88	144.42	102.00	1.50	1.50

Luminaires

Luminaire A Data

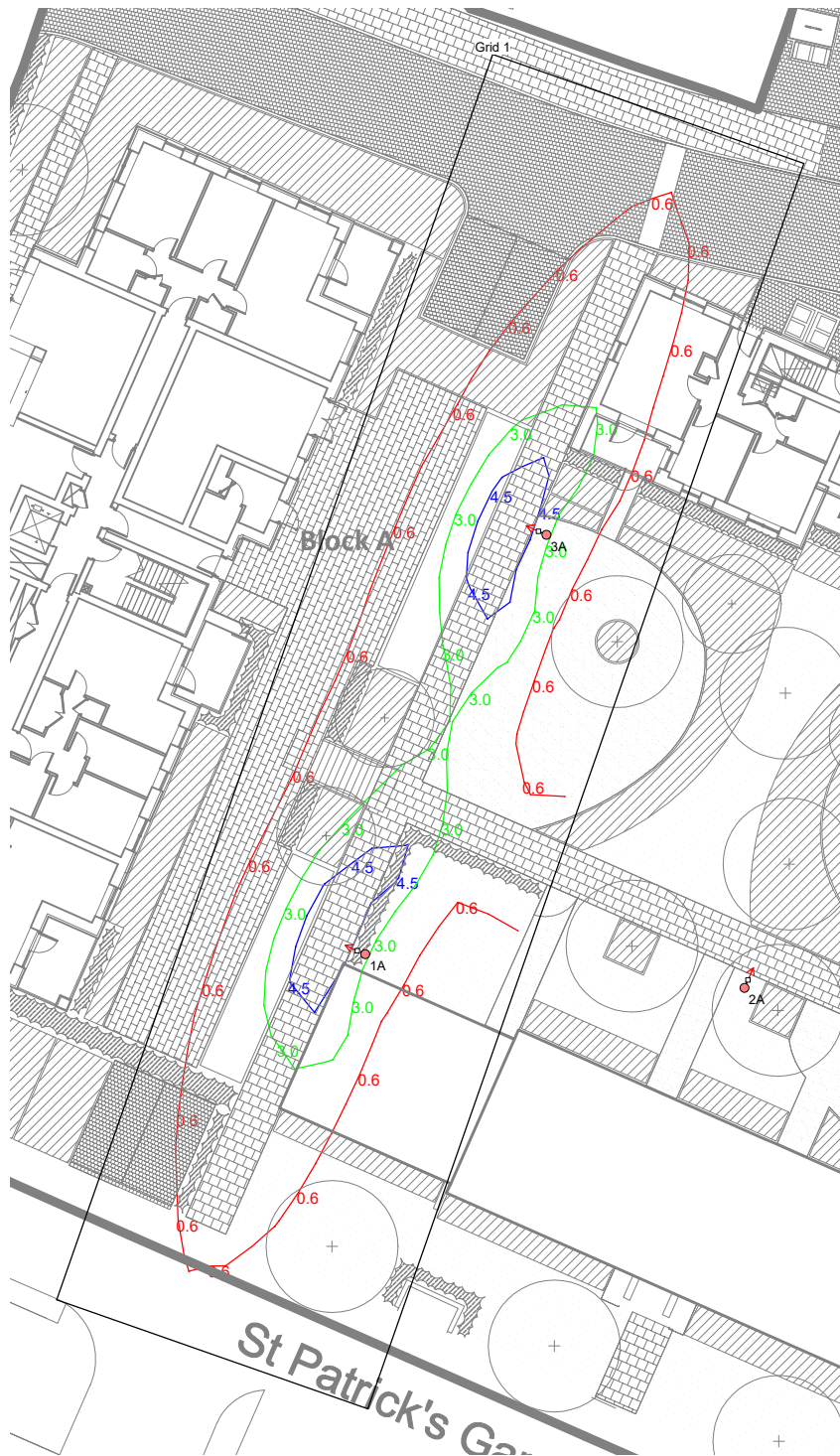
Supplier	
Type	BGP702 DN50 BL1
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	1.00
File Name	Luma Gen2 Micro_BGP702_DN50 BL1_10 00_6LED_5.2S_CLO_L90_740.ies
Maintenance Factor	0.76
Lum. Int. Class	G3
No. in Project	5

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out- reach	Target X	Target Y	Target Z
1	A	-23.08	55.57	5.00	156.00	0.00	0.00	0.40			
2	A	-5.84	54.05	5.00	66.00	0.00	0.00	0.40			
3	A	-14.84	74.64	5.00	156.00	0.00	0.00	0.40			
4	A	19.00	65.21	5.00	156.00	0.00	0.00	0.40			
5	A	10.41	44.51	5.00	22.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1

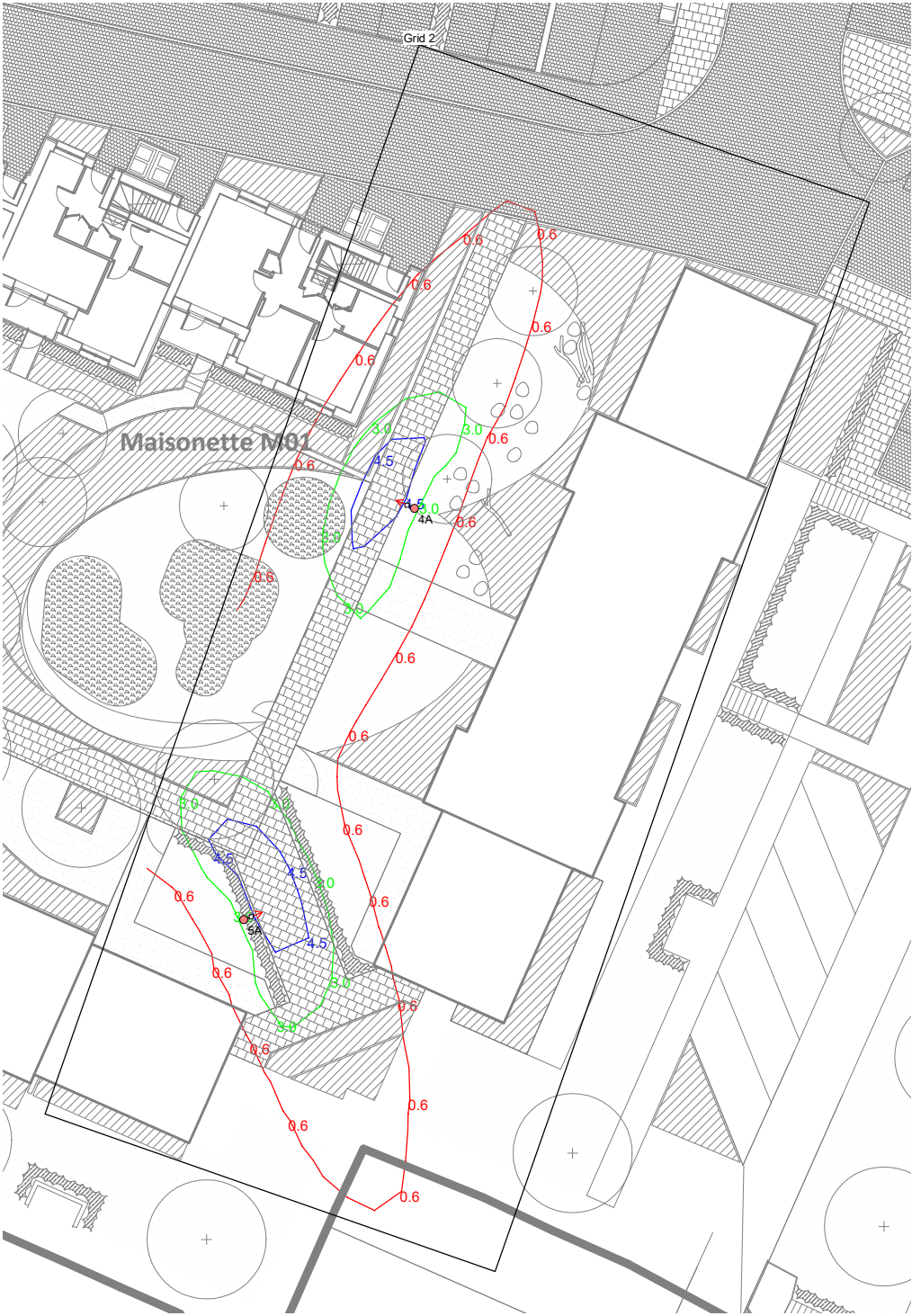


Results

Eav	3.06
Emin	0.82
Emax	5.73
Emin/Emax	0.14
Emin/Eav	0.27

Horizontal Illuminance (lux)

Grid 2

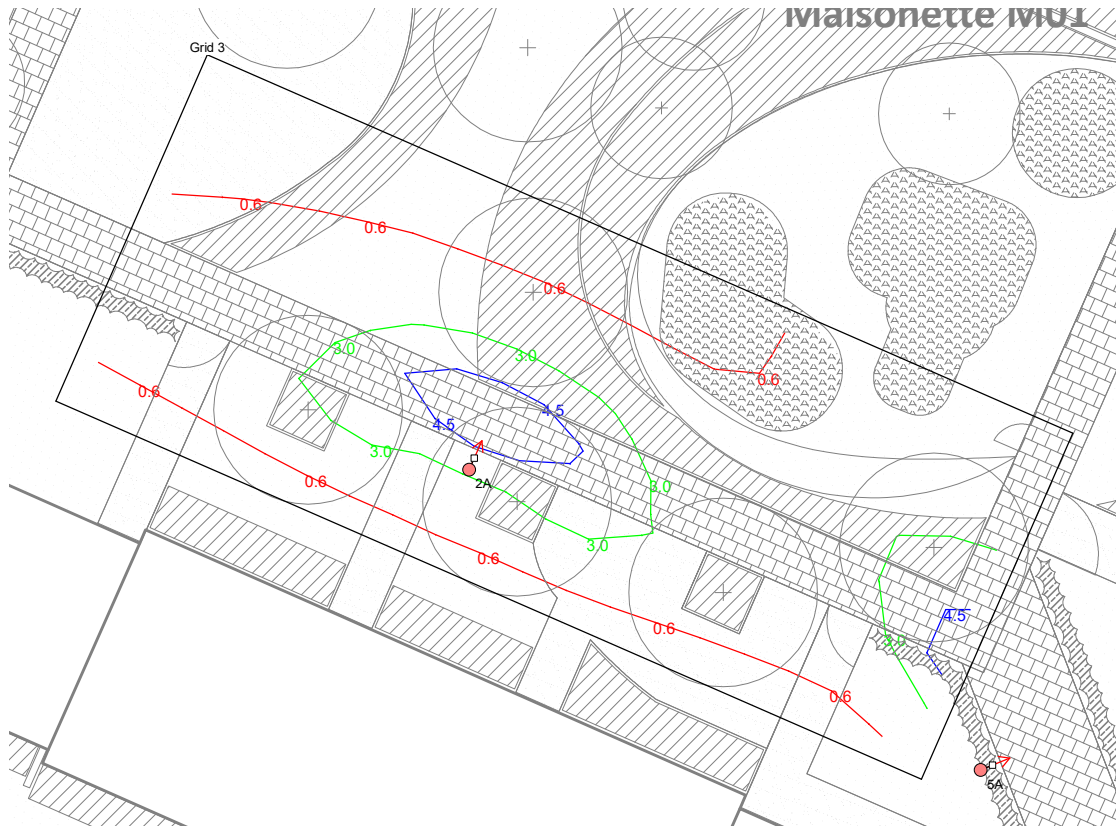


Results

Eav	3.46
Emin	0.67
Emax	5.63
Emin/Emax	0.12
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 3



Results

Eav	3.00
Emin	1.01
Emax	5.53
Emin/Emax	0.18
Emin/Eav	0.34