

DATE: 21 March 2024
DESIGNER: MMA Lighting Consultancy Ltd
PROJECT No: MMA18541
PROJECT NAME: Land at St. Columba's, Gravesend DA12



S38 Proposed Lighting Design R0

6m Kent CC Specification Columns with
CU Phosco P852K 4000K LED Luminaires

BS5489-1:2020
Lighting Class: P4
Eav 5.00 - 7.50 Lux
Emin 1.00 Lux

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

Outdoor Lighting Report

PREPARED BY: MMA Lighting Consultancy Ltd
99 Old Bath Road
Summer Field House
Charvil
Reading
Berkshire
RG10 9QN
Email: info@mma-consultancy.co.uk
Web: www.mma-consultancy.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	-46.84	86.20	69.00	33.00	1.50	1.50
2	Grid 2	17.42	67.63	78.00	59.81	1.50	1.50
3	Contour Grid	-56.17	82.33	167.00	85.73	1.50	1.50

Luminaires

Luminaire A Data



Supplier	C U Phosco
Type	P852K-12-R2B-NW-CB0500-20W
Lamp(s)	740C NW
Lamp Flux (klm)	2.50
File Name	P852K-12-R2B-NW-CB0500-20W.ies
Maintenance Factor	0.76
Lum. Int. Class	G3
No. in Project	6

Luminaire B Data



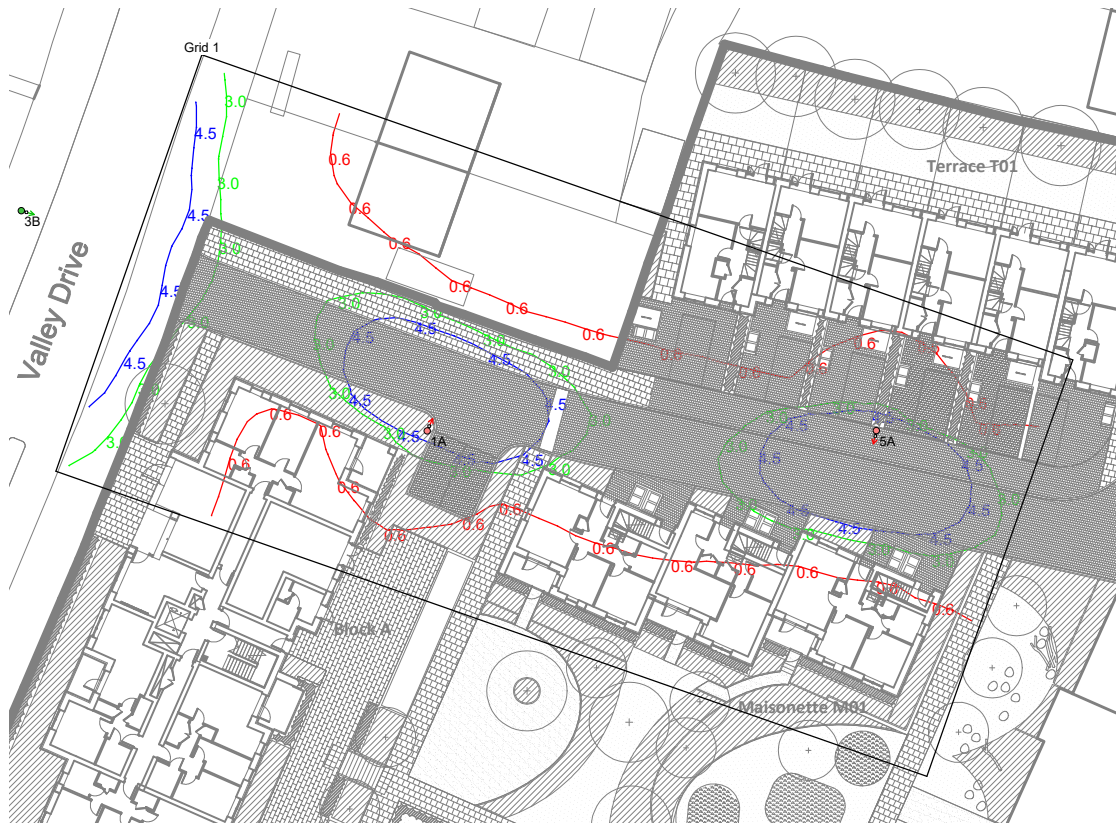
Supplier	C U Phosco
Type	P863-128-P3-740-W5-550-71W
Lamp(s)	740SS
Lamp Flux (klm)	10.38
File Name	P863-128-P3-740-W5-550-71W.ies
Maintenance Factor	0.76
Lum. Int. Class	G2
No. in Project	1

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	-19.09	89.23	6.00	66.00	0.00	0.00	0.40			
2	A	57.23	79.22	6.00	246.00	0.00	0.00	0.40			
3	B	-49.43	105.70	10.00	342.00	0.00	0.00	0.40			
4	A	44.22	64.91	6.00	66.00	0.00	0.00	0.40			
5	A	14.50	89.24	6.00	258.00	0.00	0.00	0.40			
6	A	51.25	103.85	6.00	156.00	0.00	0.00	0.40			
7	A	41.29	88.19	6.00	168.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1

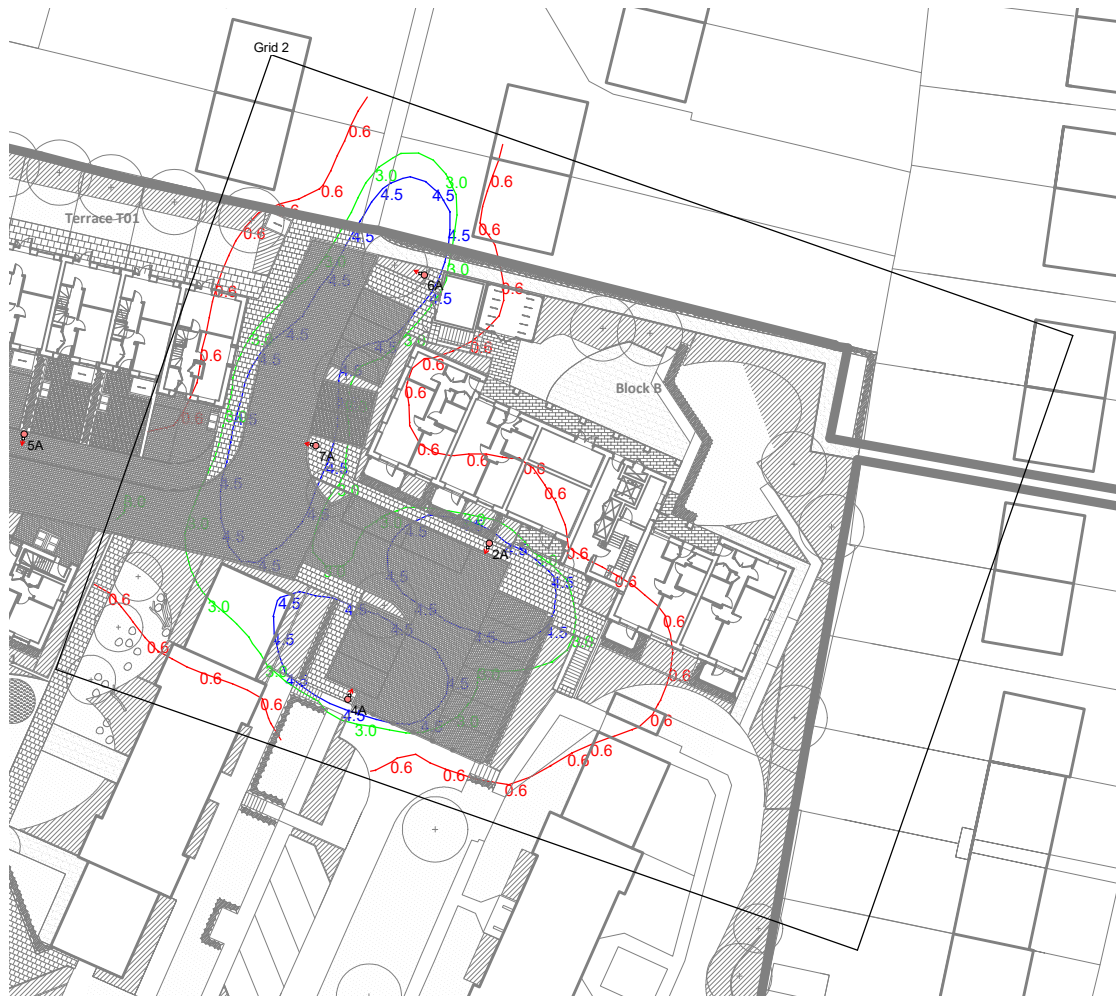


Results

Eav	5.08
Emin	1.00
Emax	16.07
Emin/Emax	0.06
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 2



Results

Eav	5.79
Emin	1.13
Emax	17.22
Emin/Emax	0.07
Emin/Eav	0.20