

DATE: 22 September 2023
DESIGNER: MMA Lighting Consultancy Ltd
PROJECT No: MMA18229
PROJECT NAME: Jacks Lane, Takeley Footpath




Jacks Lane, Takeley Footpath S38 - Area Calculation - R2

6m Essex County Council specification columns with post top DW Windsor Kirium Pro Mini 3000K Luminaires.

Lighting Class: P5 from BS5489-1:2020 (E3 Zone)
Eav: 3.00 - 4.50 Lux
Emin: 0.60

Base drawing number used in this calculation "15.21-104 to 105 Off-Site Footpath Electrical Layout - bound (1)"

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	557102.06	221511.80	184.90	92.97	1.50	1.50
2	Grid 2	557032.48	221547.46	78.00	109.74	1.50	1.50

Luminaires

Luminaire A Data

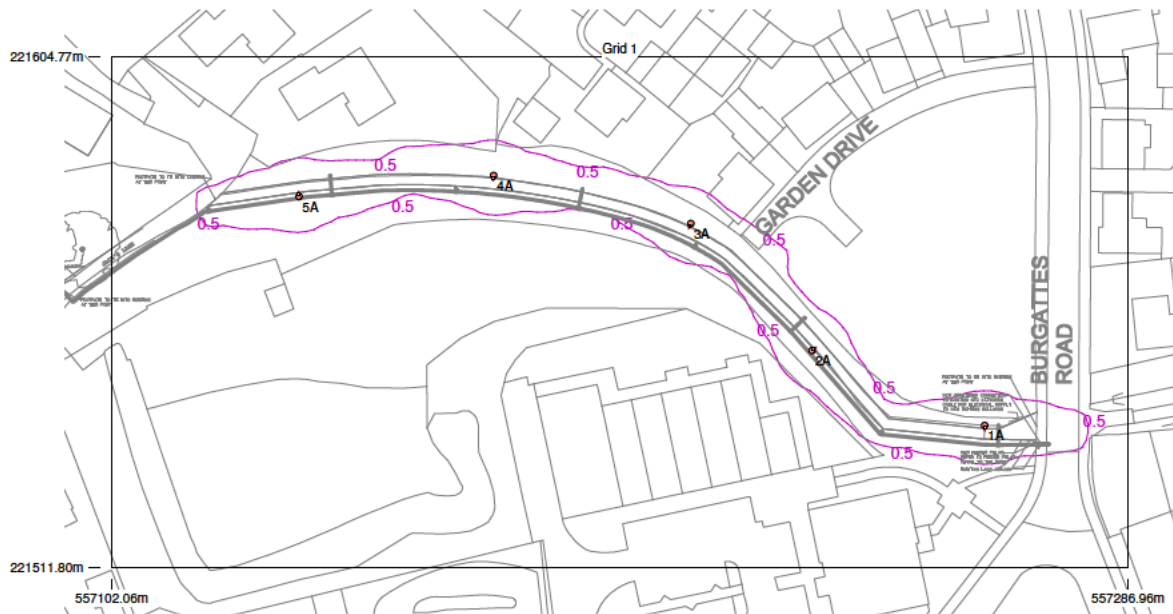
Supplier	D W Windsor Other
Type	KIRIUM PRO MINI 8LED 3k B1 350mA UM SUG 42 0008 0000 100
Lamp(s)	8 x 3k LED
Lamp Flux (klm)	1.27
File Name	KIRIUM PRO MINI 8LED 3k B1_350mA UM SUG 42 0008 0000 100.ies
Maintenance Factor	0.76
Lum. Int. Class	G3
No. in Project	8

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	557260.89	221537.71	6.00	269.00	0.00	0.00	0.40			
2	A	557229.46	221551.31	6.00	40.00	0.00	0.00	0.40			
3	A	557207.38	221574.41	6.00	246.00	0.00	0.00	0.40			
4	A	557171.53	221583.14	6.00	263.00	0.00	0.00	0.40			
5	A	557136.15	221579.29	6.00	98.00	0.00	0.00	0.40			
7	A	557086.62	221574.89	6.00	199.00	0.00	0.00	0.40			
8	A	557076.61	221605.19	6.00	210.00	0.00	0.00	0.40			
9	A	557056.48	221633.48	6.00	217.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1

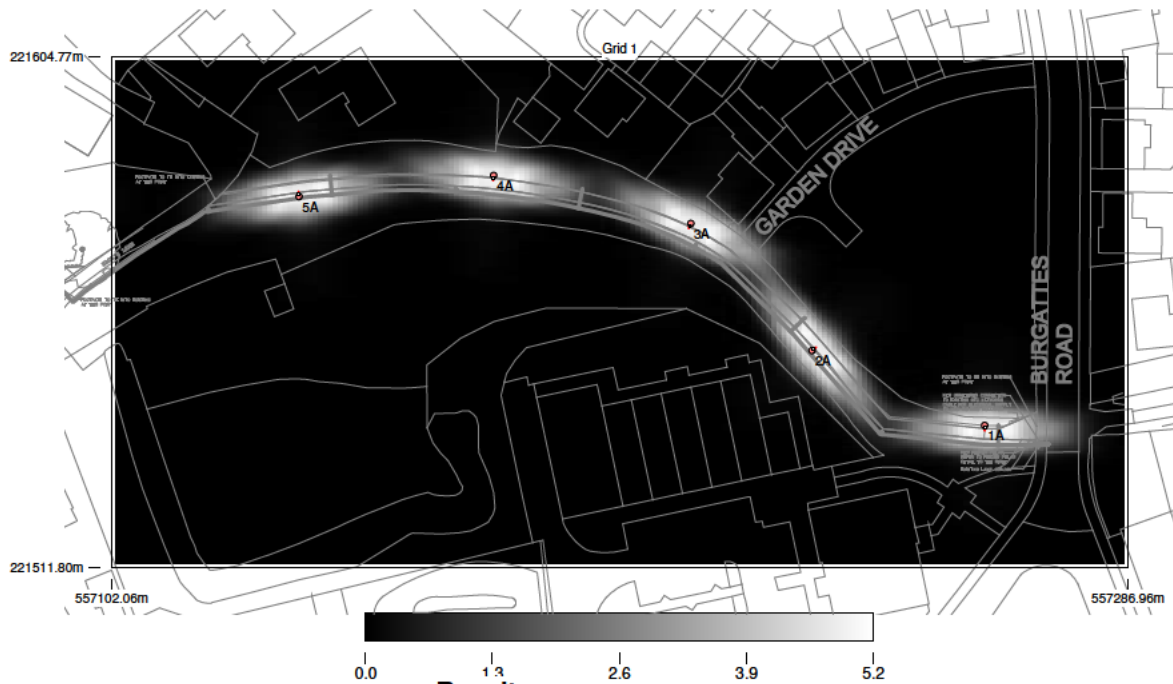


Results

Eav	3.30
Emin	1.05
E _{max}	5.19
E _{min} /E _{max}	0.20
E _{min} /E _{av}	0.32

Horizontal Illuminance (lux)

Grid 1

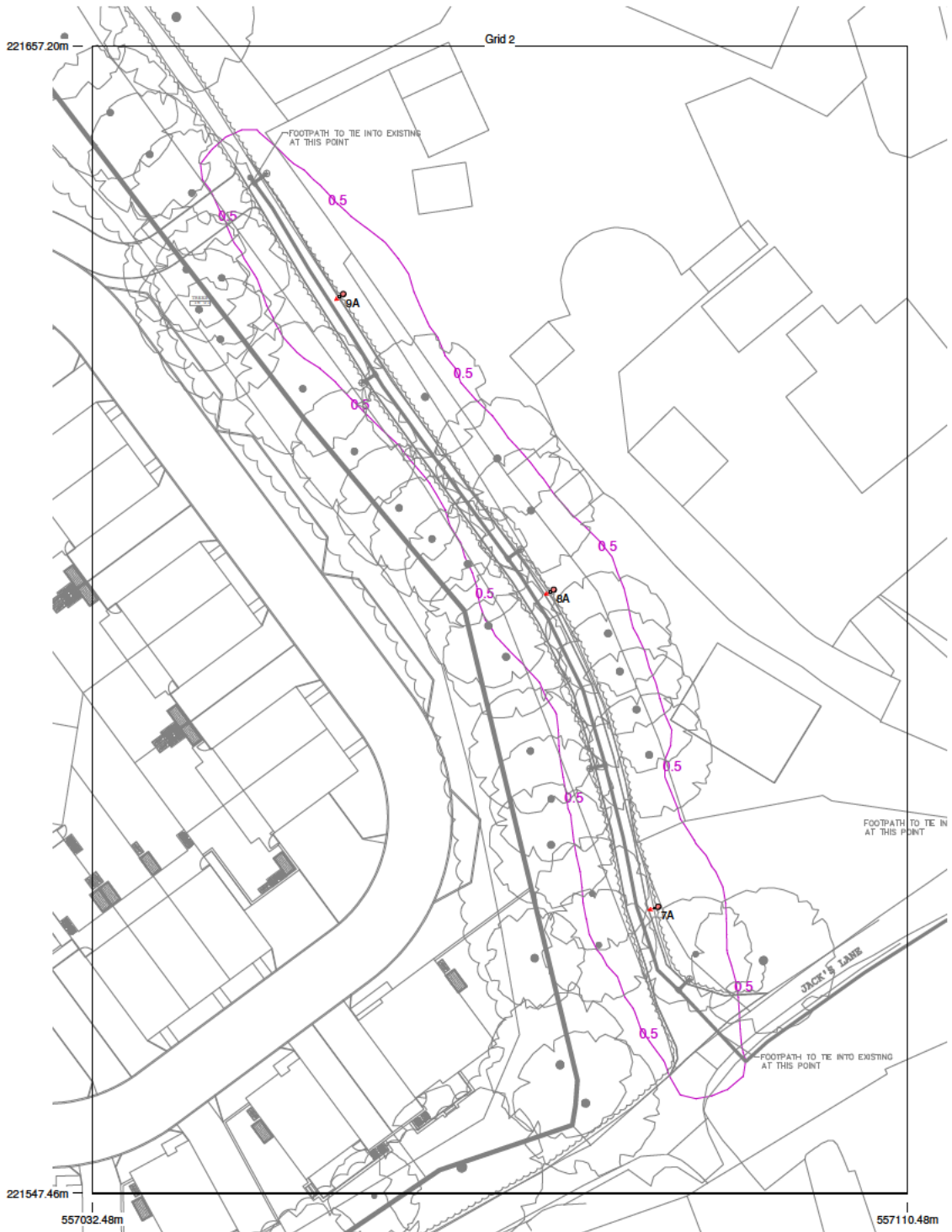


Results

Eav	3.30
Emin	1.05
Emax	5.19
Emin/Emax	0.20
Emin/Eav	0.32

Horizontal Illuminance (lux)

Grid 2

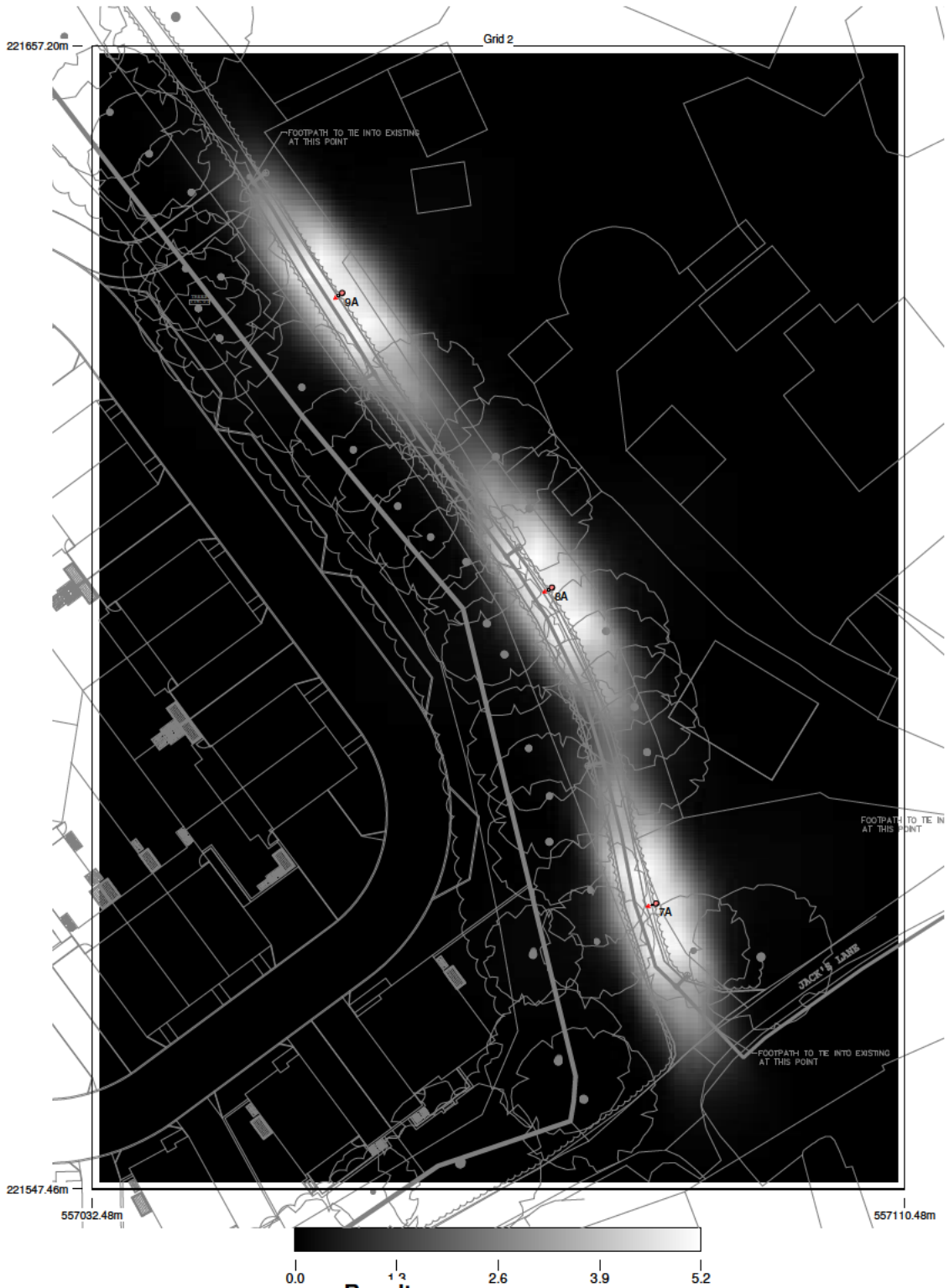


Results

Eav	3.40
Emin	1.05
Emax	5.14
Emin/Emax	0.21
Emin/Eav	0.31

Horizontal Illuminance (lux)

Grid 2



Results

Eav	3.40
Emin	1.05
Emax	5.14
Emin/Emax	0.21
Emin/Eav	0.31