

DATE: 23 March 2026
DESIGNER: Julian Joseph
PROJECT No: 100776-JLD-S278-DC-0002D
PROJECT NAME: Aborfield PMD West Footpath

joseph lighting

The footpath lighting has been designed to Lighting Class P5, selected in accordance with BS 5489-1:2020 Table A.5 and BS EN 13201 for a busy pedestrian and cycle route.

This class provides an appropriate level of illumination to ensure safe movement, visibility, and personal security while maintaining energy efficiency.

Minimum average illuminance (Eav): 3.00 lux
Minimum illuminance (Emin): 0.60 lux

CCT of LEDs in this report remain at 4000k in lieu of 2700k data.
Luminaires to be ordered with 2700k LEDs with equal 1.60klm output.

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	476779.85	165695.00	155.41	128.00	1.49	1.49
2	Grid 2	476682.56	165546.58	97.29	184.92	1.50	1.49

Luminaires

Luminaire F Data

Supplier	2025.03.21 - Philips
Type	BGP701 DM50
Lamp(s)	LED-HB 5.2S 740
Lamp Flux (klm)	1.60
File Name	Luma Gen2 Nano_BGP701_DM50_1600_6 LED_5.2S_CLO_L90_740.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	921.3, 65.9, 0.0
No. in Project	10

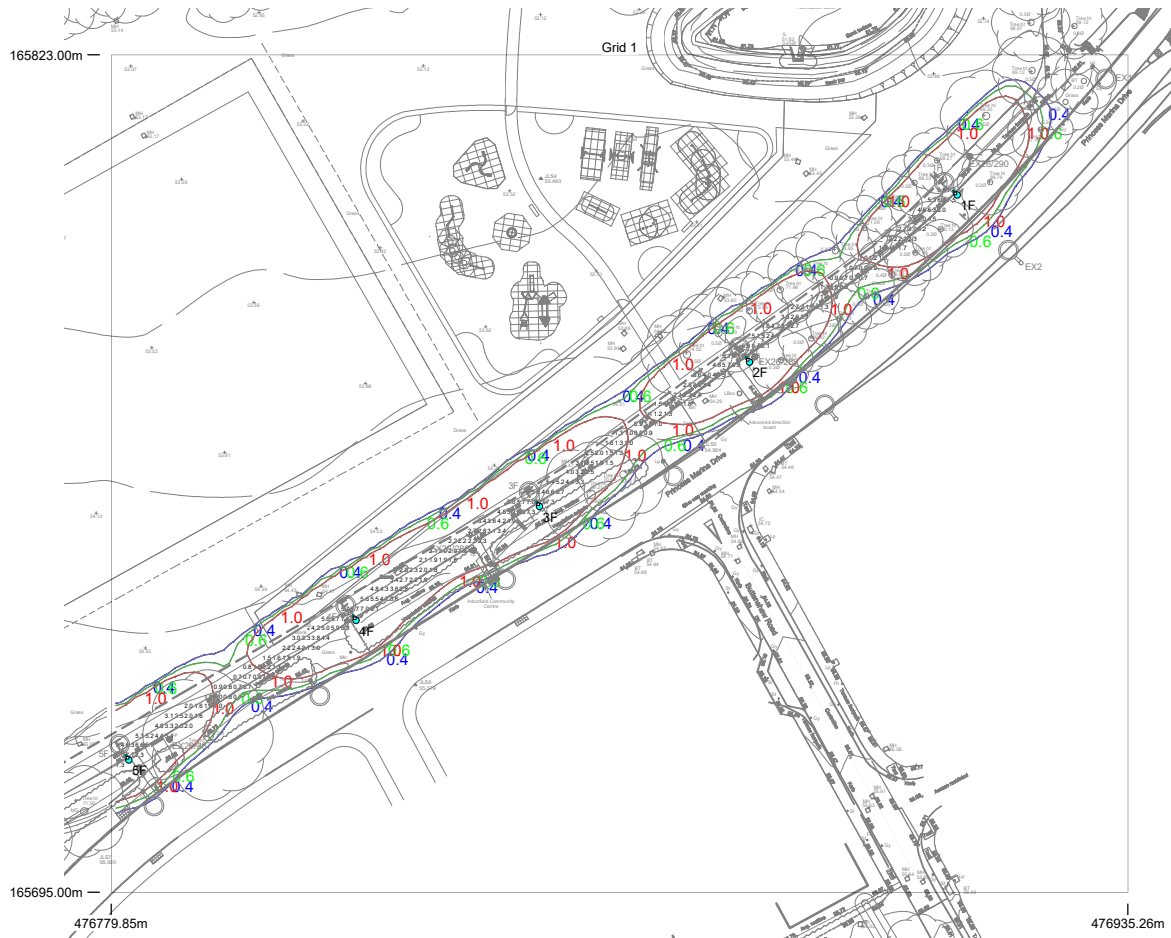
Luminaires to be ordered with 2700k CCT LEDs in lieu of photometric files.

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	F	476909.15	165801.56	5.00	135.00	0.00	0.00	0.40			
2	F	476877.39	165776.05	5.00	126.00	0.00	0.00	0.40			
4	F	476817.27	165736.57	5.00	123.00	0.00	0.00	0.40			
5	F	476782.54	165715.24	5.00	123.00	0.00	0.00	0.40			
6	F	476746.38	165698.84	5.00	301.00	0.00	0.00	0.40			
7	F	476723.08	165668.17	5.00	327.00	0.00	0.00	0.40			
8	F	476713.29	165640.20	5.00	154.00	0.00	0.00	0.40			
10	F	476728.50	165574.66	5.00	190.00	0.00	0.00	0.40			
9	F	476720.92	165612.36	5.00	200.00	0.00	0.00	0.40			
3	F	476845.32	165753.97	5.00	124.00	0.00	0.00	0.40			

Horizontal Illuminance (lux)

Grid 1

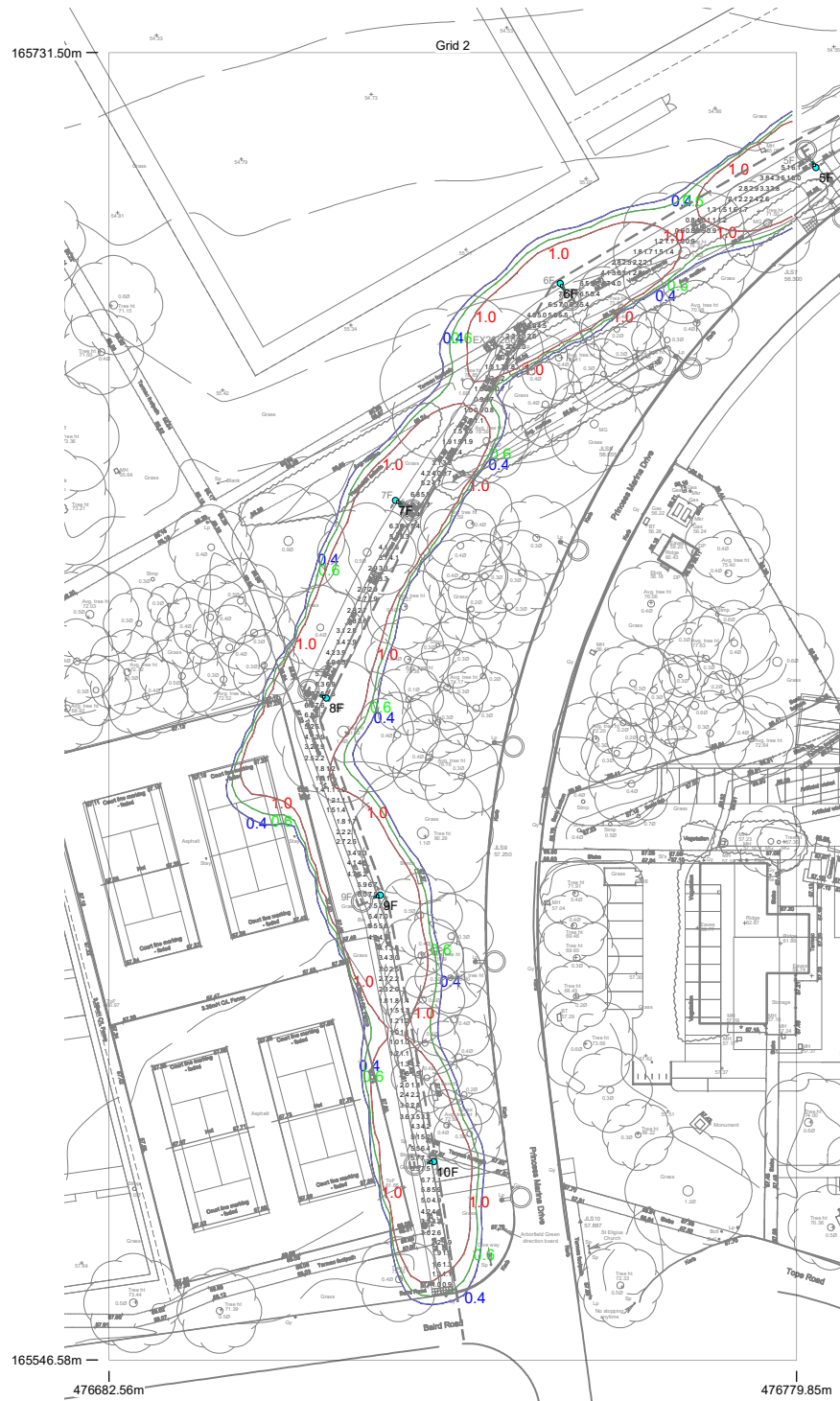


Results

Eav	3.28
Emin	0.66
Emax	7.76
Emin/Emax	0.09
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 2



Results

Eav	3.41
Emin	0.67
Emax	7.75
Emin/Emax	0.09
Emin/Eav	0.20