

DATE: 30 August 2026
DESIGNER: WLC
PROJECT No: WLC1468
PROJECT NAME: RM North School Rd, Arborfield Cross



The proposed lighting design adheres to the requirements of the following lighting class(es):

Achieved lighting levels: P5

Refer to report for specific results.

WLC1468-LC-AC-001 R0

PREPARED BY: Williams Lighting Consultants Ltd.
t: 01608 642530
e-mail: info@wlclighting.co.uk
website: www.wlclighting.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	476408.79	166960.93	266.20	175.00	1.50	1.50
2	Grid 2	476458.86	167087.22	84.00	123.00	1.50	1.50
3	Grid 3	476549.89	167067.87	84.00	123.00	1.50	1.50

Luminaires

Luminaire A Data



Supplier	Philips
Type	BGP702 DX10
Lamp(s)	LED-HB 5.2S 730
Lamp Flux (klm)	3.00
File Name	Luma Gen2 Micro_BGP702_DX10_3000_2 0LED_5.2S_CLO_L90_730.ies
Maintenance Factor	0.83
Lum. Int. Class	G3
No. in Project	9

Luminaire B Data



Supplier	Philips
Type	BGP702 DM10
Lamp(s)	LED-HB 5.2S 730
Lamp Flux (klm)	2.00
File Name	Luma Gen2 Micro_BGP702_DM10_2000_1 0LED_5.2S_CLO_L90_730.ies
Maintenance Factor	0.83
Lum. Int. Class	G3
No. in Project	6

Luminaire C Data

Supplier	
Type	BGP702 DW50 BL1
Lamp(s)	LED-HB 5.2S 730
Lamp Flux (klm)	3.40
File Name	Luma Gen2 Micro_BGP702_DW50 BL1_34 00_20LED_5.2S_CLO_L90_730.ies
Maintenance Factor	0.83
Lum. Int. Class	G3
No. in Project	4

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out- reach	Target X	Target Y	Target Z
1	C	476669.11	166989.89	6.00	185.00	0.00	0.00	0.30			
2	C	476660.65	167011.82	6.00	231.00	0.00	0.00	0.30			
3	A	476628.26	167021.07	6.00	59.00	0.00	0.00	0.30			
4	A	476608.53	167046.65	6.00	230.00	0.00	0.00	0.30			
5	A	476580.14	167065.66	6.00	252.00	0.00	0.00	0.30			
6	A	476553.22	167071.66	6.00	258.00	0.00	0.00	0.30			
7	A	476521.31	167077.69	6.00	262.00	0.00	0.00	0.30			
8	A	476505.01	167083.07	6.00	173.00	0.00	0.00	0.30			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
9	A	476470.91	167086.18	6.00	265.00	0.00	0.00	0.30			
10	A	476438.74	167094.88	6.00	34.00	0.00	0.00	0.30			
11	A	476425.41	167111.67	6.00	34.00	0.00	0.00	0.30			
12	B	476515.84	167097.45	6.00	143.00	0.00	0.00	0.30			
13	B	476528.27	167138.37	6.00	181.00	0.00	0.00	0.30			
14	B	476531.34	167166.81	6.00	267.00	0.00	0.00	0.30			
15	B	476604.22	167086.34	6.00	160.00	0.00	0.00	0.30			
16	B	476620.96	167119.99	6.00	153.00	0.00	0.00	0.30			
17	B	476624.53	167151.13	6.00	247.00	0.00	0.00	0.30			
18	C	476662.71	166968.69	6.00	152.00	0.00	0.00	0.30			
19	C	476650.50	166953.29	6.00	122.00	0.00	0.00	0.30			

Horizontal Illuminance (lux)

Grid 1



Results

Eav	3.81
Emin	0.61
Emax	10.42
Emin/Emax	0.06
Emin/Eav	0.16

Horizontal Illuminance (lux)

Grid 2



Results

Eav	3.78
Emin	0.60
Emax	10.81
Emin/Emax	0.06
Emin/Eav	0.16

Horizontal Illuminance (lux)

Grid 3



Results

Eav	3.07
Emin	0.60
Emax	10.80
Emin/Emax	0.06
Emin/Eav	0.19