

**BLACKPITTS STUDENT HOUSING
STUDENT ACCOMODATION
NEWMARKET, DUBLIN 8**

**APPLICANT:
Blackpitts Residence Unlimited Company**

PROJECT No: 4994

Public Lighting Calculations

REVISION	DESCRIPTION	ISSUED BY	DATE	CHECKED BY
0	Public Lighting Calculations	JMcG	July 2025	TMcP

Author(s) **Jonathan McGregor**.....

Signature

Date **22nd July 2025**.....

Approved By **Tony McPolin**.....

Signature

Date **22nd July 2025**.....

Layout Report

General Data

Dimensions in Metres Angles in Degrees
Local Origin at 14.00m x 10.00m
Grid Origin 0.0m x 0.0m
Area 94.0m x 91.0m
Sample Spacing 1.00m x 1.00m

Luminaires

Luminaire A Data

Supplier	
Type	AXIA 2.1 5241 Integrated lenses Rear louvers 24 OSLO SQUARE
Lamp(s)	24 OSLO SQUARE GIANT@800mA NW 740 230V 00-36-981
LampFlux(klm)/Colour	6.40 NW 4000K/70
File Name	AXIA 2.1 5241 24 OSLO SQUARE GIANT 800mA NW 740 61W 434782 Integrated le...
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	913.2, 62.3, 2.4
No. in Project	4

Luminaire B Data

Supplier	
Type	AXIA 2.1 5241 Integrated lenses Rear louvers 24 OSLO SQUARE
Lamp(s)	24 OSLO SQUARE GIANT@700mA NW 740 230V 00-36-981
LampFlux(klm)/Colour	5.74 NW 4000K/70
File Name	AXIA 2.1 5241 24 OSLO SQUARE GIANT 700mA NW 740 53W 434782 Integrated le...
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	913.2, 62.3, 2.4
No. in Project	3

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	0.50	19.00	8.00	280.00	0.00	0.00	0.50			
2	A	31.11	13.56	8.00	270.00	0.00	0.00	0.50			
3	A	59.25	16.25	8.00	285.00	0.00	0.00	0.50			
4	A	86.37	28.47	8.00	305.00	0.00	0.00	0.50			
5	B	27.75	22.25	6.00	195.00	0.00	0.00	0.50			
6	B	19.28	51.79	6.00	195.00	0.00	0.00	0.50			
7	B	10.68	79.47	6.00	195.00	0.00	0.00	0.50			

Horizontal Illuminance (lux)

Grid 1



Results

Eav	10.80
Emin	4.39
Emax	26.99
Emin/Emax	0.16
Emin/Eav	0.41