

**DATE:** 5 July 2023  
**DESIGNER:** HHP  
**PROJECT No:** 20ME015  
**PROJECT NAME:** Rathangan



Design:  
Lighting Classes according to EN13201:2015:  
- Residential: P4  
(S/P Ratio:1.61;  $3.69 < E_{av} < 5.54$ ;  $E_{min}=0.74$ ; MF=0.8)

## **Outdoor Lighting Report**

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## Layout Report

### General Data

Dimensions in Metres Angles in Degrees  
Grid Origin 668243.9m x 719531.1m  
Area 123.7m x 129.4m  
Sample Spacing 1.49m x 1.49m

### Luminaires

#### Luminaire A Data

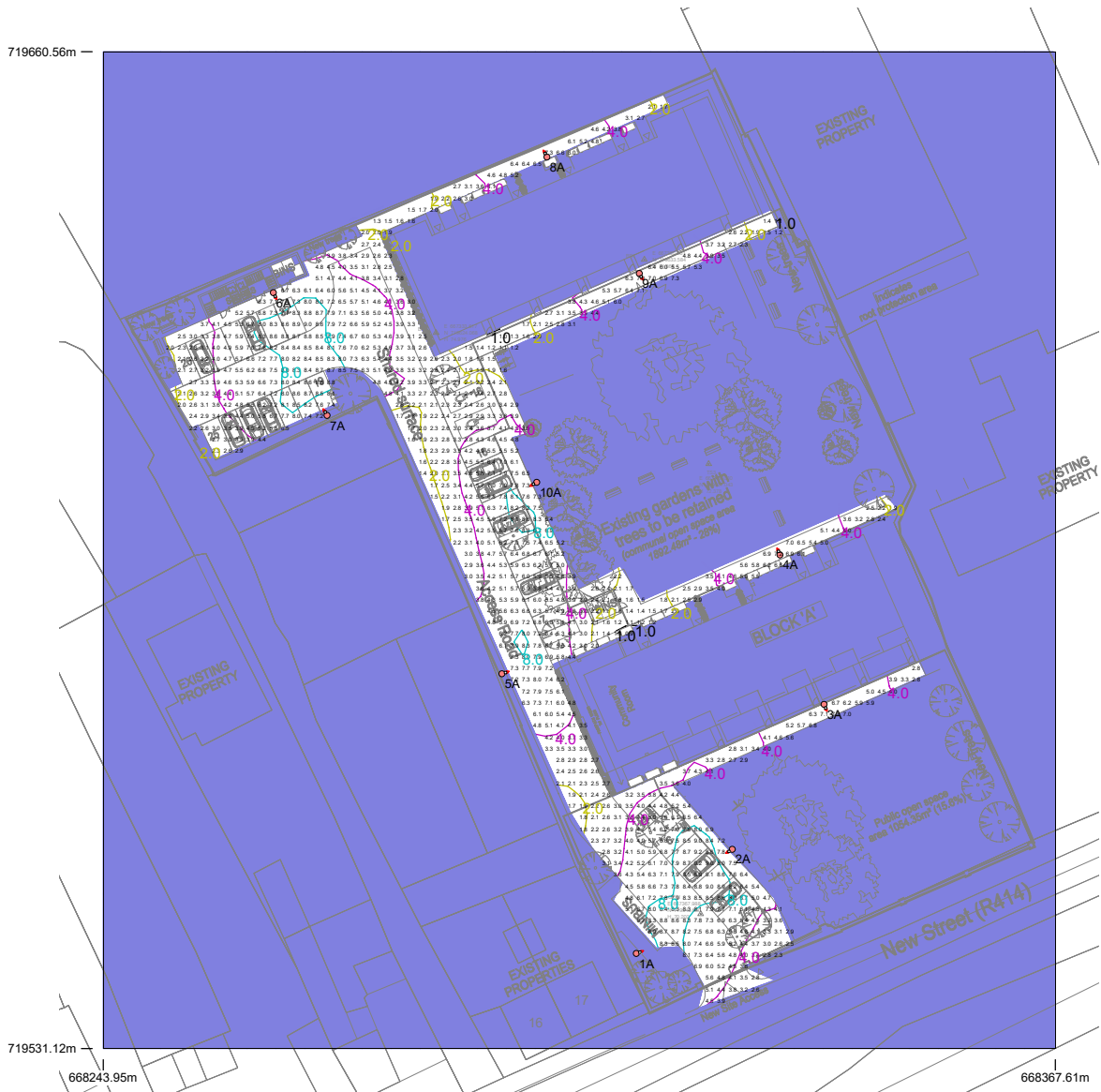
Supplier	
Type	BGP615 DW50
Lamp(s)	LED-HB 4S/740
Lamp Flux (klm)	3.40
File Name	Luma_Micro_BGP615_DW50_3400_20LED_330mA_4S_CLO_L90_NW.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	616.7, 39.5, 0.0
Lamp S/P Ratio	1.61
No. in Project	10

### Layout

No.	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	668313.17	719543.52	6.00	20.00	0.00	0.00	0.50			
2	A	668325.62	719557.03	6.00	211.00	0.00	0.00	0.50			
3	A	668337.54	719575.85	6.00	293.00	0.00	0.00	0.50			
4	A	668331.83	719595.24	6.00	113.00	0.00	0.00	0.50			
5	A	668295.71	719579.80	6.00	20.00	0.00	0.00	0.50			
6	A	668266.04	719629.29	6.00	295.00	0.00	0.00	0.50			
7	A	668273.02	719613.36	6.00	122.00	0.00	0.00	0.50			
8	A	668301.56	719646.90	6.00	117.00	0.00	0.00	0.50			
9	A	668313.55	719631.79	6.00	297.00	0.00	0.00	0.50			
10	A	668300.21	719604.68	6.00	211.00	0.00	0.00	0.50			

# Horizontal Illuminance (lux)

Grid 1



## Results

Eav	4.85
Emin	0.90
Emax	9.19
Emin/Emax	0.10
Emin/Eav	0.19