

DATE: 25 October 2024
DESIGNER: EDS
PROJECT No: 749
PROJECT NAME: Gravesend (Rev B)

**LIGHTING
REALITY**

Site description:

Erection of 6no. affordable residential dwellings, emergency access
/ pedestrian / cycle route with associated parking and landscaping

Lighting designed to class BS5489 design class P4.

All lights are 3000K warm white colour temperature

Lanterns set at 0 degree tilt (zero upward skyglow)

Type A (Red) Columns to be 4m height.

Type B (Green) Bollards to be 1m height

Type C (Blue) Property mounted lights to be 1.8m height. Downward
directional only

Outdoor Lighting Report

Layout Report

General Data

Dimensions in Metres Angles in Degrees
Grid Origin 565109.1m x 171424.6m
Area 137.8m x 109.7m
Sample Spacing 1.50m x 1.48m

Luminaires



Luminaire A Data

Supplier	TRT Lighting
Type	ASM4_LED_10W_CLO_GR2_3000K_EXP
Lamp(s)	42 0010 0000 100
Lamp Flux (klm)	0.99
File Name	ASM4_LED_10W_CLO_GR2_3000K_EXP.i
Maintenance Factor	0.86
Imax70,80,90(cd/klm)	892.9, 156.9, 0.0
No. in Project	7

Luminaire B Data

Supplier	
Type	Taurus Bollard 1000mm 17W 3000K CR180
Lamp(s)	LED
LampFlux(klm)/Colour	1.94 3000/80
File Name	ATAUB-1 17W 3000K.ltd
Maintenance Factor	0.86
Imax70,80,90(cd/klm)	144.0, 81.2, 46.6
No. in Project	2

Luminaire C Data

Supplier	
Type	[TEST]
Lamp(s)	[TESTDATE] 2019-05-21
Lamp Flux (klm)	0.76
File Name	areeledwl_(3000k).IES
Maintenance Factor	0.86
Imax70,80,90(cd/klm)	39.2, 16.5, 0.6
No. in Project	11

Layout

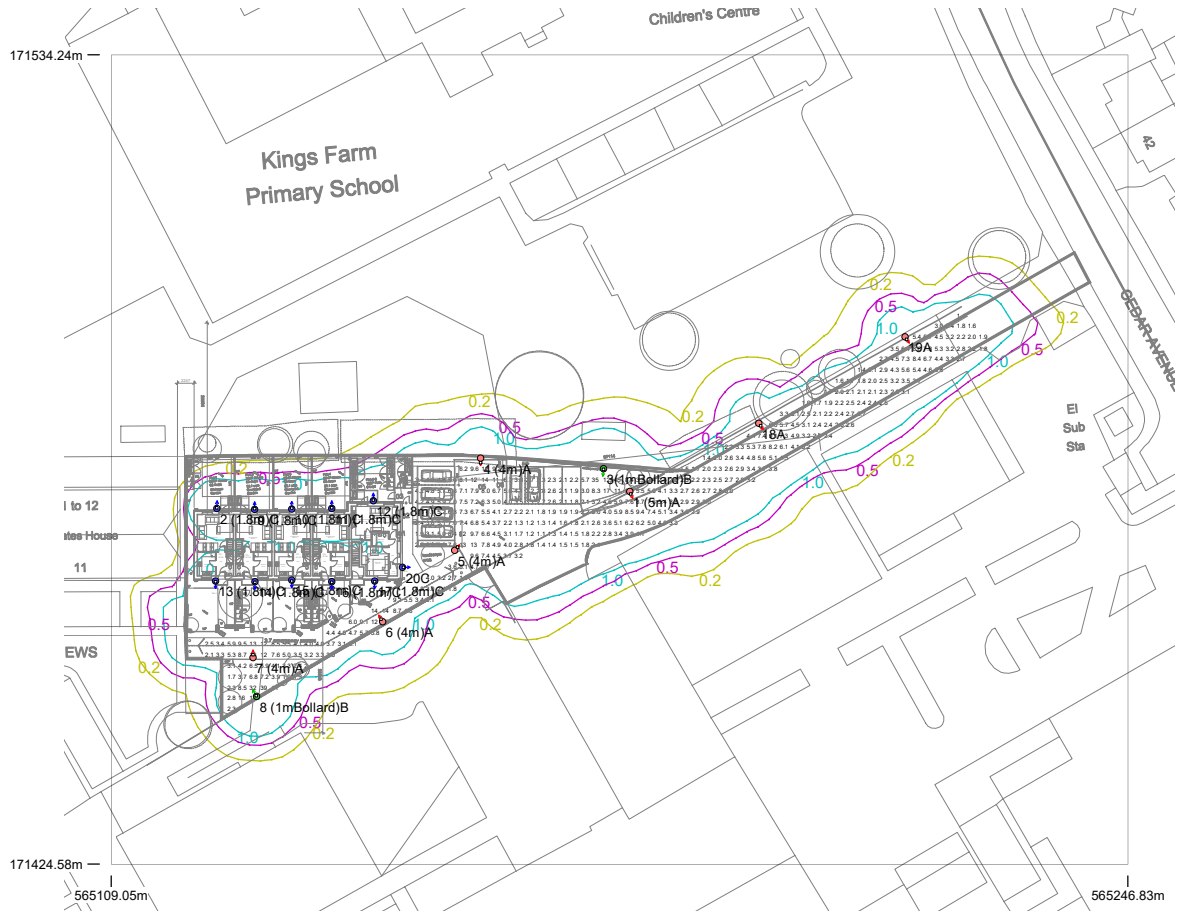
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1 (5m)	A	565179.29	171475.10	5.00	293.00	0.00	0.00	0.40			
2 (1.8m)	C	565123.37	171472.77	1.80	89.00	0.00	0.00	0.10			
3(1mBollard)	B	565175.77	171478.16	1.00	264.00	0.00	0.00	0.10			
4 (4m)	A	565159.08	171479.60	4.00	272.00	0.00	0.00	0.60			
5 (4m)	A	565155.57	171467.11	4.00	47.00	0.00	0.00	0.60			
6 (4m)	A	565145.81	171457.45	4.00	120.00	0.00	0.00	0.40			
7 (4m)	A	565128.26	171452.57	4.00	90.00	0.00	0.00	0.40			
8 (1mBollard)	B	565128.73	171447.31	1.00	120.00	0.00	0.00	0.10			
9 (1.8m)	C	565128.47	171472.65	1.80	90.00	0.00	0.00	0.10			
10 (1.8m)	C	565133.51	171472.71	1.80	90.00	0.00	0.00	0.10			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
11 (1.8m)	C	565138.92	171472.77	1.80	90.00	0.00	0.00	0.10			
12 (1.8m)	C	565144.58	171473.82	1.80	90.00	0.00	0.00	0.10			
13 (1.8m)	C	565123.19	171462.94	1.80	270.00	0.00	0.00	0.10			
14 (1.8m)	C	565128.54	171462.88	1.80	270.00	0.00	0.00	0.10			
15 (1.8m)	C	565133.51	171463.06	1.80	270.00	0.00	0.00	0.10			
16 (1.8m)	C	565138.92	171462.88	1.80	270.00	0.00	0.00	0.10			
17 (1.8m)	C	565144.76	171462.94	1.80	270.00	0.00	0.00	0.10			
18	A	565196.80	171484.31	5.00	304.00	0.00	0.00	0.40			
19	A	565216.59	171496.03	5.00	305.00	0.00	0.00	0.40			
20	C	565148.53	171464.82	1.80	0.00	0.00	0.00	0.10			

Horizontal Illuminance (lux)

Grid 1



Results

Eav	5.46
Emin	1.14
Emax	129.41
Emin/Emax	0.01
Emin/Eav	0.21