

**DATE:** 4 May 2022  
**DESIGNER:** Aidan Drennan  
**PROJECT No:** D20011  
**PROJECT NAME:** Bancroft View SHD



Lighting to BS5489:1 2020

Main Access road/Northern Road/Parking lighting to class P3,  
Pedestrianised Areas to Class P4.  
4000k Throughout  
Dimming to U14 regime

- A) Cree Energy Uno TRSA 02 150 6L 3.56klm, 21w CLO
- B) Cree Energy Uno TRSA 02 150 8L 8.64klm, 54w CLO
- C) Cree Energy Uno TRSA 02 075 2L 1.16klm, 8w CLO
- D) Cree Energy Uno TRSA 02 150 6L 3.56klm, 21w CLO  
c/w nema 7 pin socket & photocell

6M Columns

## 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	2120.40	-3219.87	273.83	300.23	10.95	12.01
2	Main Access Road	2305.25	-3145.17	16.28	100.52	1.48	1.48
3	Northern Road/Parking	2252.99	-3049.22	53.27	16.48	1.27	0.75
4	Southern Walkway	2218.98	-3143.02	86.29	12.05	1.23	1.34
5	Western Pedestrianised Are...	2220.79	-3128.37	23.36	86.02	0.87	1.37

### Luminaires

#### Luminaire A Data



Supplier	Cree Lighting
Type	TRSA-02-150-6L40721W
Lamp(s)	12Du6L21W4K
Lamp Flux (klm)	3.56
File Name	TRSA-02-150-6L-407 21W-481-QL21-S03.I ES
Maintenance Factor	0.86
Imax70,80,90(cd/klm)	476.2, 35.8, 0.0
No. in Project	9

#### Luminaire B Data



Supplier	Cree Lighting
Type	TRSA-02-150-8L40754W
Lamp(s)	16Du8L54W4K
Lamp Flux (klm)	8.64
File Name	TRSA-02-150-8L-407 54W-481-QL21-S03.I ES
Maintenance Factor	0.86
Imax70,80,90(cd/klm)	476.2, 35.8, 0.0
No. in Project	1

#### Luminaire C Data



Supplier	Cree Lighting
Type	TRSA-02-075-2L407 8W
Lamp(s)	4Lu2L8W4K
Lamp Flux (klm)	1.16
File Name	TRSA-02-075-2L-407 8W-1088-QL20-R18.I ES
Maintenance Factor	0.86
Imax70,80,90(cd/klm)	418.0, 31.4, 0.0
No. in Project	4

#### Luminaire D Data



Supplier	Cree Lighting
Type	TRSA-02-150-6L40721W
Lamp(s)	12Du6L21W4K
Lamp Flux (klm)	3.56
File Name	TRSA-02-150-6L-407 21W-481-QL21-S03.I ES
Maintenance Factor	0.86
Imax70,80,90(cd/klm)	476.2, 35.8, 0.0
No. in Project	1

### Layout

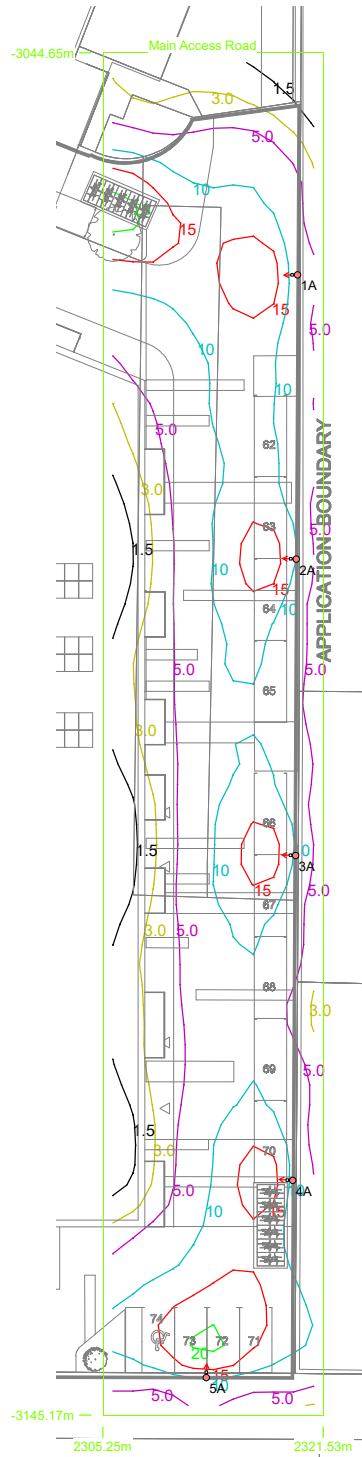
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	2319.61	-3061.04	6.00	181.00	5.00	0.00	0.40			
2	A	2319.51	-3082.01	6.00	177.00	0.00	0.00	0.40			
3	A	2319.48	-3103.88	6.00	177.00	0.00	0.00	0.40			
4	A	2319.25	-3127.84	6.00	176.00	0.00	0.00	0.40			
5	A	2312.88	-3142.38	6.00	89.00	0.00	0.00	0.40			
6	C	2292.96	-3142.16	6.00	98.00	0.00	0.00	0.40			

**Layout Continued**

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
7	B	2299.98	-3052.38	6.00	264.00	5.00	0.00	0.40			
9	A	2262.73	-3142.32	6.00	90.00	0.00	0.00	0.40			
10	A	2225.11	-3123.89	6.00	335.00	10.00	0.00	0.40			
11	A	2230.72	-3142.04	6.00	89.00	5.00	0.00	0.40			
12	A	2232.78	-3104.01	6.00	352.00	0.00	0.00	0.40			
13	C	2240.01	-3084.88	6.00	334.00	5.00	0.00	0.40			
14	C	2247.99	-3066.73	6.00	341.00	5.00	0.00	0.40			
15	C	2253.34	-3051.80	6.00	342.00	0.00	0.00	0.40			
16	D	2272.22	-3041.95	6.00	257.00	5.00	0.00	0.40			

## Horizontal Illuminance (lux)

Main Access Road

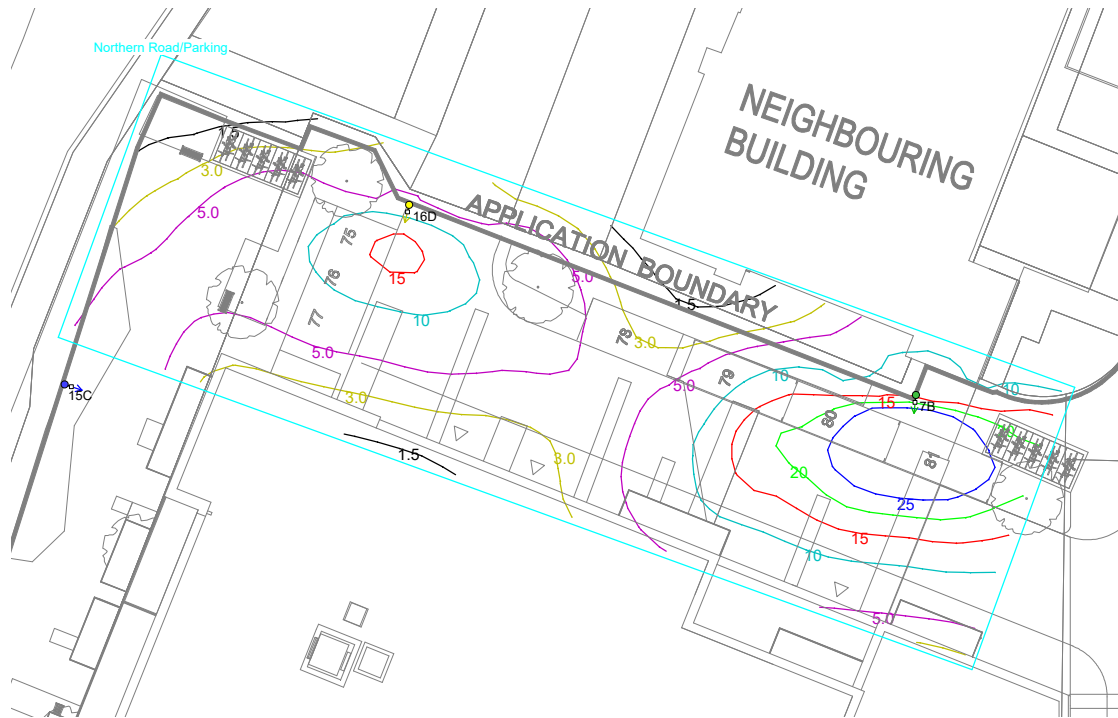


### Results

Eav	9.73
Emin	2.43
Emax	21.78
Emin/Emax	0.11
Emin/Eav	0.25

## Horizontal Illuminance (lux)

Northern Road/Parking

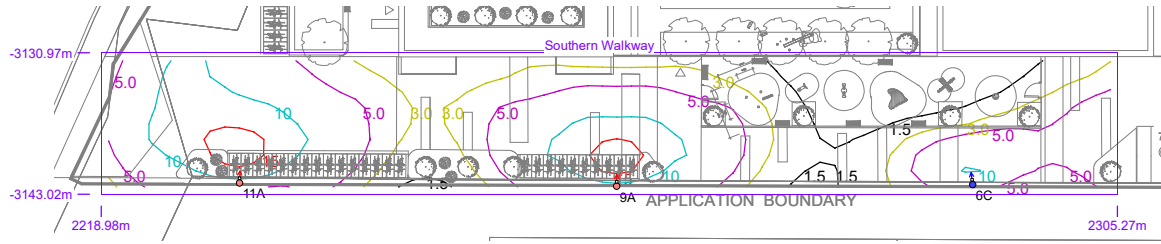


### Results

Eav	9.91
Emin	1.94
E <sub>max</sub>	39.33
E <sub>min</sub> /E <sub>max</sub>	0.05
E <sub>min</sub> /E <sub>av</sub>	0.20

## Horizontal Illuminance (lux)

### Southern Walkway

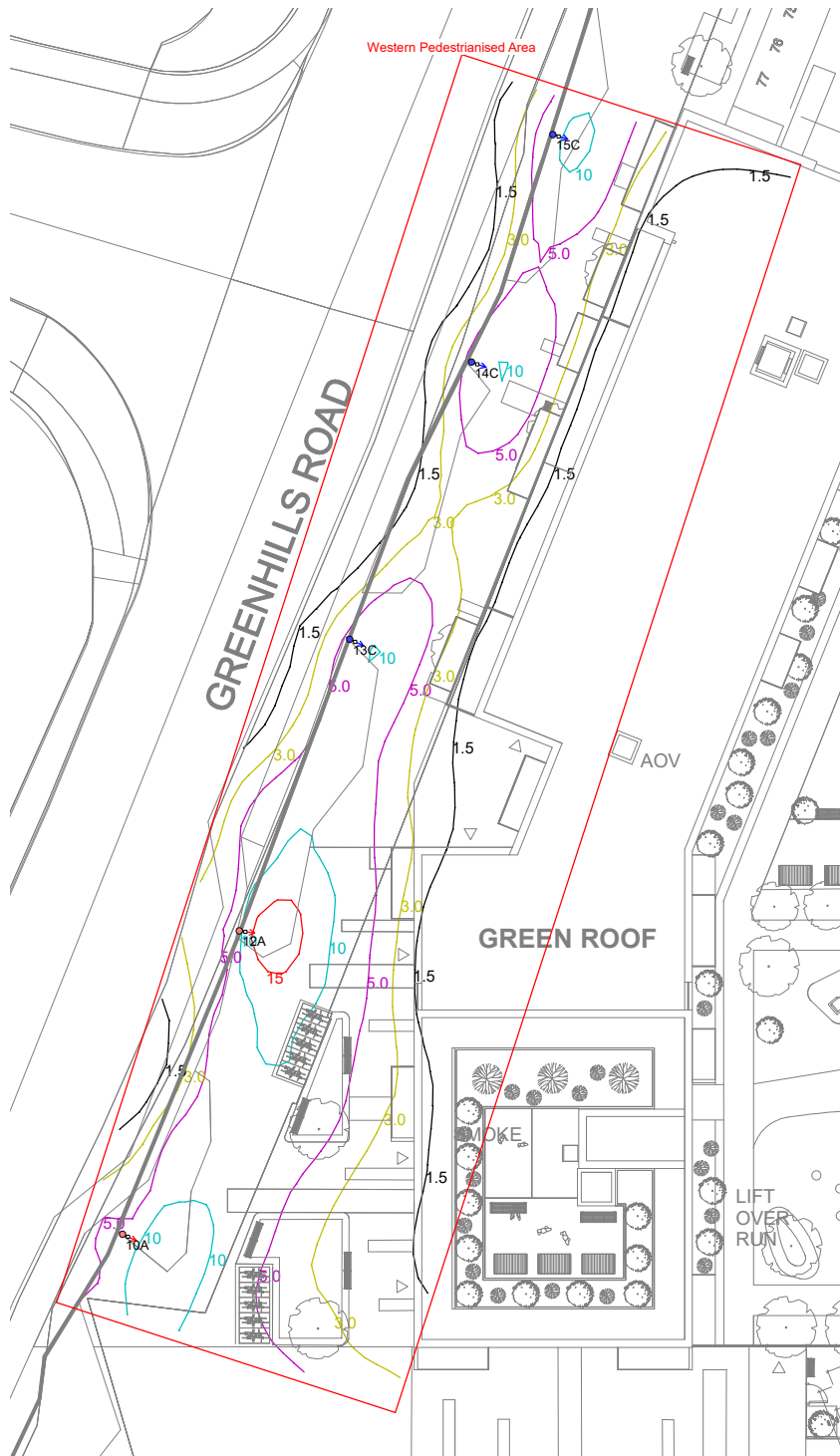


### Results

Eav	7.17
Emin	1.41
E <sub>max</sub>	18.01
E <sub>min</sub> /E <sub>max</sub>	0.08
E <sub>min</sub> /E <sub>av</sub>	0.20

# Horizontal Illuminance (lux)

## Western Pedestrianised Area



### Results

Eav	6.03
Emin	1.51
Emax	18.08
Emin/Emax	0.08
Emin/Eav	0.25