

**DATE:** 27th Aug 2021 Rev 4  
**DESIGNER:** Joda Engineering  
**PROJECT No:** 4507  
**PROJECT NAME:** Red Forge Road Apartments



## **Public Lighting Report**

## 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	Internal Paths	525.74	347.59	68.45	108.72	1.49	1.49
2	External Road	574.32	359.94	24.50	123.92	1.44	1.49

### Luminaires



#### Luminaire A Data

Supplier	
Type	ENERGY 2 Optic 150 9L 40K 67W
Lamp(s)	20DurisS8 9L 67W 40K
LampFlux(klm)/Colour	10.82 4000/70
File Name	TRMA-02-150-9L-407 67W-481-QL21-S03. LDT
Maintenance Factor	0.84
Lum. Int. Class	G4
No. in Project	4

#### Luminaire B 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. IES
Maintenance Factor	0.84
Lum. Int. Class	G4
No. in Project	13

### Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	583.87	382.94	8.00	204.00	0.00	0.00	1.00			
2	A	568.23	413.19	8.00	207.00	0.00	0.00	1.00			
3	A	553.83	441.05	8.00	200.00	0.00	0.00	1.00			
4	A	542.48	463.86	8.00	209.00	0.00	0.00	1.00			
5	B	562.56	376.36	5.00	111.00	0.00	0.00	0.00			
6	B	542.44	366.65	5.00	111.00	0.00	0.00	0.00			
7	B	525.07	367.04	5.00	16.00	0.00	0.00	0.00			
8	B	522.56	384.50	5.00	17.00	0.00	0.00	0.00			
9	B	517.08	405.47	5.00	10.00	0.00	0.00	0.00			
10	B	511.84	426.76	5.00	13.00	0.00	0.00	0.00			
11	B	511.53	443.98	5.00	184.00	0.00	0.00	0.00			
12	B	521.31	448.99	5.00	103.00	0.00	0.00	0.00			
13	B	534.63	408.63	5.00	111.00	0.00	0.00	0.00			
14	B	521.62	430.75	5.00	204.00	0.00	0.00	0.00			
15	B	530.94	411.85	5.00	204.00	0.00	0.00	0.00			
16	B	541.17	391.48	5.00	206.00	0.00	0.00	0.00			
17	B	532.36	388.91	5.00	111.00	0.00	0.00	0.00			

## Horizontal Illuminance (lux)



### Results

Eav	6.29
Emin	1.58
Emax	18.57
Emin/Emax	0.09
Emin/Eav	0.25

# Horizontal Illuminance (lux)



## Results

Eav	14.22
Emin	4.38
Emax	31.04
Emin/Emax	0.14
Emin/Eav	0.31