

DATE: 3 March 2021  
DESIGNER: Christopher Lins  
PROJECT No: 15-048  
PROJECT NAME: St. Francis Park



## Public Lighting Design Report

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## Layout Report

### General Data

Dimensions in Metres Angles in Degrees  
Grid Origin 79.7m x 179.7m  
Area 190.4m x 179.4m  
Sample Spacing 1.50m x 1.50m

### Luminaires

#### Luminaire A Data

Supplier	Thorn Lighting
Type	R2L2 XS - 12 x Neutral White 4000K LED 350mA - RWT Optic
Lamp(s)	LED
LampFlux(klm)/Colour	2.03 4000/70
File Name	TL_RX12L35RWT740.LDT
Maintenance Factor	0.90
Imax70,80,90(cd/klm)	304.4, 35.2, 0.0
No. in Project	12



Thorn R2L2 Extra Small

### Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	124.67	253.22	6.00	255.00	0.00	0.00	0.40			
2	A	145.00	247.16	6.00	130.00	0.00	0.00	0.40			
3	A	158.79	262.95	6.00	133.00	0.00	0.00	0.40			
4	A	176.24	273.77	6.00	113.00	0.00	0.00	0.40			
5	A	196.07	278.02	6.00	94.00	0.00	0.00	0.40			
6	A	217.02	279.98	6.00	122.00	0.00	0.00	0.40			
7	A	221.52	298.98	6.00	208.00	0.00	0.00	0.40			
8	A	198.96	305.36	6.00	270.00	0.00	0.00	0.40			
9	A	174.63	305.33	6.00	270.00	0.00	0.00	0.40			
10	A	121.97	271.14	6.00	173.00	0.00	0.00	0.40			
11	A	114.44	237.12	6.00	162.00	0.00	0.00	0.40			
12	A	104.05	211.93	6.00	155.00	0.00	0.00	0.40			

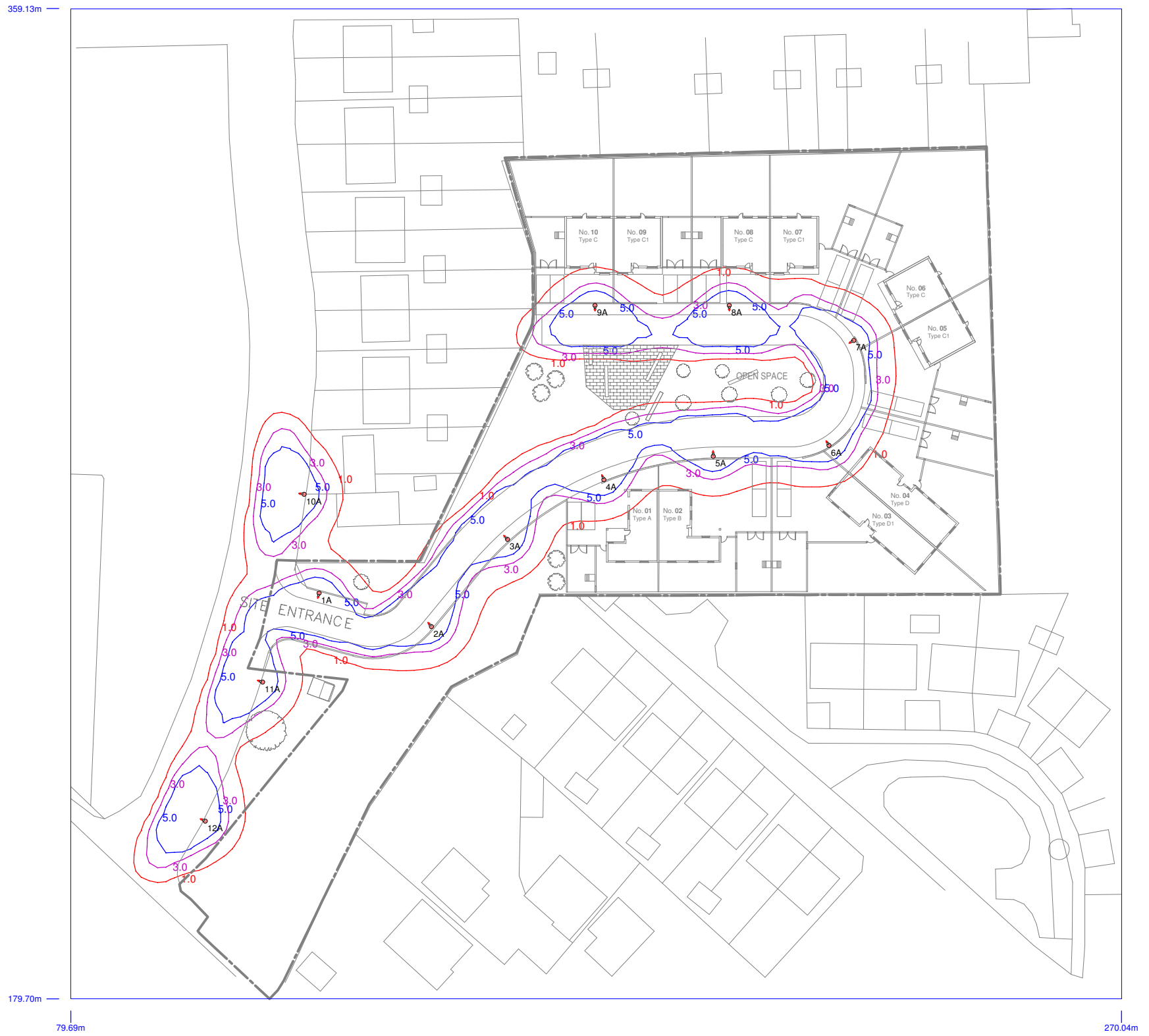
### Class

Site internal roads public lighting was designed to lighting class S3, delivered as per horizontal illuminance and results attached

Lighting Class		
Class	Horizontal illuminance (lux)	
	Average	Minimum
S3	7.5	1.5

## Horizontal Illuminance (lux)

Site Layout

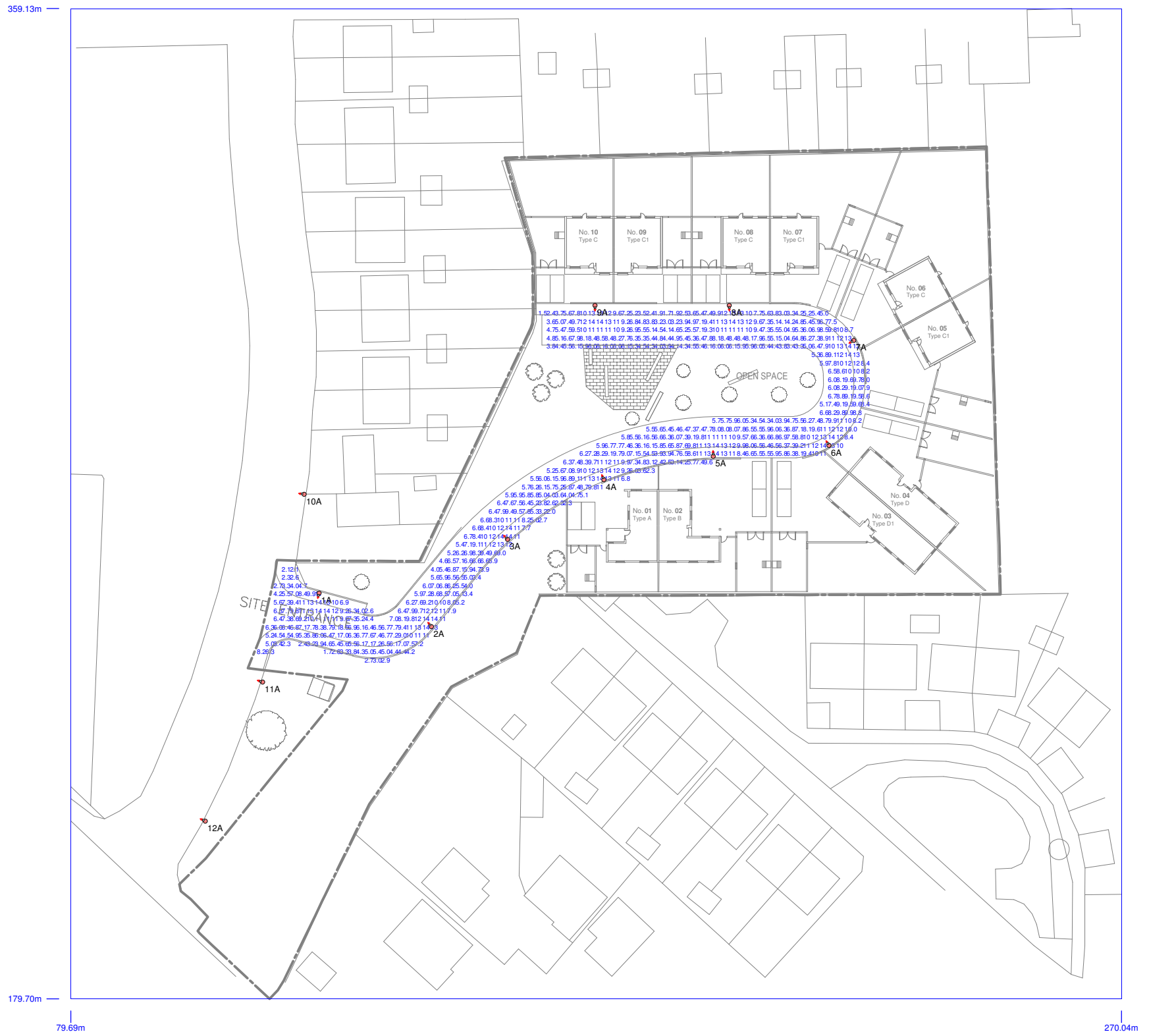


### Results

Eav	7.47
Emin	1.50
E <sub>max</sub>	14.06
E <sub>min</sub> /E <sub>max</sub>	0.11
E <sub>min</sub> /E <sub>av</sub>	0.20

# Horizontal Illuminance (lux)

Site Layout

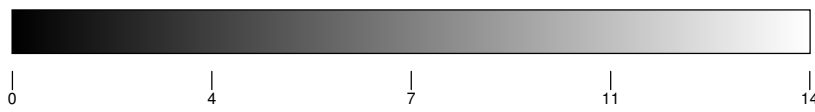


## Results

Eav	7.47
Emin	1.50
Emax	14.06
Emin/Emax	0.11
Emin/Eav	0.20

## Horizontal Illuminance (lux)

Site Layout



### Results

Eav	7.47
Emin	1.50
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Emin/Emax	0.11
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