

DATE: 13 November 2024
DESIGNER: Aidan Drennan
PROJECT No: CC22002
PROJECT NAME: Ford-Podium 4



Lighting to BS5489:1:2020

Main Road into Development to Class P3
Landscaped Areas Within Development to Class P4

Luminaire A-Cree TRSA-02-200-6L30827W 3000K 27W 4.17klm
Luminaire B-Thorn Avenue Deco Clear Prismatic Diffuser 3000K
1.76klm

Outdoor Lighting Report

PREPARED BY: EDC-Mechanical & Electrical Consulting Engineers
Designer: Jessica Mullen - Electrical Engineer
Cork Office Tel: +353(0)21 4280476
Dublin Office Tel: +383(0)1 5313693
London Office Tel: +44 (0) 2030040062
www.edcengineers.com

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	728.18	385.85	343.94	229.55	1.50	1.49
2	Grid 2	830.99	473.33	32.62	38.49	1.48	1.48

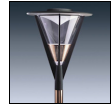
Luminaires

Luminaire A Data



Supplier	Cree Lighting
Type	TRSA-02-200-6L30827W
Lamp(s)	12lu6L27W3K
Lamp Flux (klm)	4.17
File Name	TRSA-02-200-6L-308 27W-1408-QL20-S05 .IES
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	408.5, 36.8, 0.0
No. in Project	3

Luminaire B Data



Supplier	Thorn
Type	Avenue Deco - Clear Prismatic Diff - 18 x L EDs 3000K 350mA -
Lamp(s)	LED 3000K
LampFlux(klm)/Colour	1.76 3000/
File Name	AVD18L35WST3KG32_DC.LDT
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	306.2, 193.9, 75.1
No. in Project	25

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	841.50	505.03	6.00	130.00	0.00	0.00	0.61			
2	A	837.63	483.10	6.00	25.00	0.00	0.00	0.61			
3	A	860.15	481.68	6.00	257.00	0.00	0.00	0.61			
4	B	857.91	494.15	6.00	0.00	0.00	0.00	0.00			
5	B	849.70	503.54	6.00	270.00	0.00	0.00	0.00			
6	B	861.54	503.59	6.00	265.00	0.00	0.00	0.00			
7	B	847.52	470.86	6.00	184.00	0.00	0.00	0.00			
8	B	849.91	451.09	6.00	0.00	0.00	0.00	0.00			
9	B	863.45	456.46	6.00	184.00	0.00	0.00	0.00			
10	B	863.54	437.14	6.00	90.00	0.00	0.00	0.00			
11	B	885.50	442.88	6.00	275.00	0.00	0.00	0.00			
12	B	892.71	451.82	6.00	0.00	0.00	0.00	0.00			
13	B	892.67	466.03	6.00	0.00	0.00	0.00	0.00			
14	B	914.84	441.16	6.00	0.00	0.00	0.00	0.00			
15	B	908.77	452.25	6.00	0.00	0.00	0.00	0.00			
16	B	895.71	475.95	6.00	0.00	0.00	0.00	0.00			
17	B	912.91	470.05	6.00	0.00	0.00	0.00	0.00			
18	B	912.68	479.65	6.00	0.00	0.00	0.00	0.00			
19	B	882.17	498.35	6.00	0.00	0.00	0.00	0.00			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
20	B	897.69	500.37	6.00	0.00	0.00	0.00	0.00			
21	B	912.02	492.78	6.00	0.00	0.00	0.00	0.00			
22	B	913.29	504.42	6.00	0.00	0.00	0.00	0.00			
23	B	930.74	457.11	6.00	0.00	0.00	0.00	0.00			
24	B	941.81	473.62	6.00	0.00	0.00	0.00	0.00			
25	B	960.36	485.75	6.00	0.00	0.00	0.00	0.00			
26	B	960.06	503.21	6.00	0.00	0.00	0.00	0.00			
27	B	950.64	505.73	6.00	0.00	0.00	0.00	0.00			
28	B	934.61	504.67	6.00	0.00	0.00	0.00	0.00			

Horizontal Illuminance (lux)

Grid 1

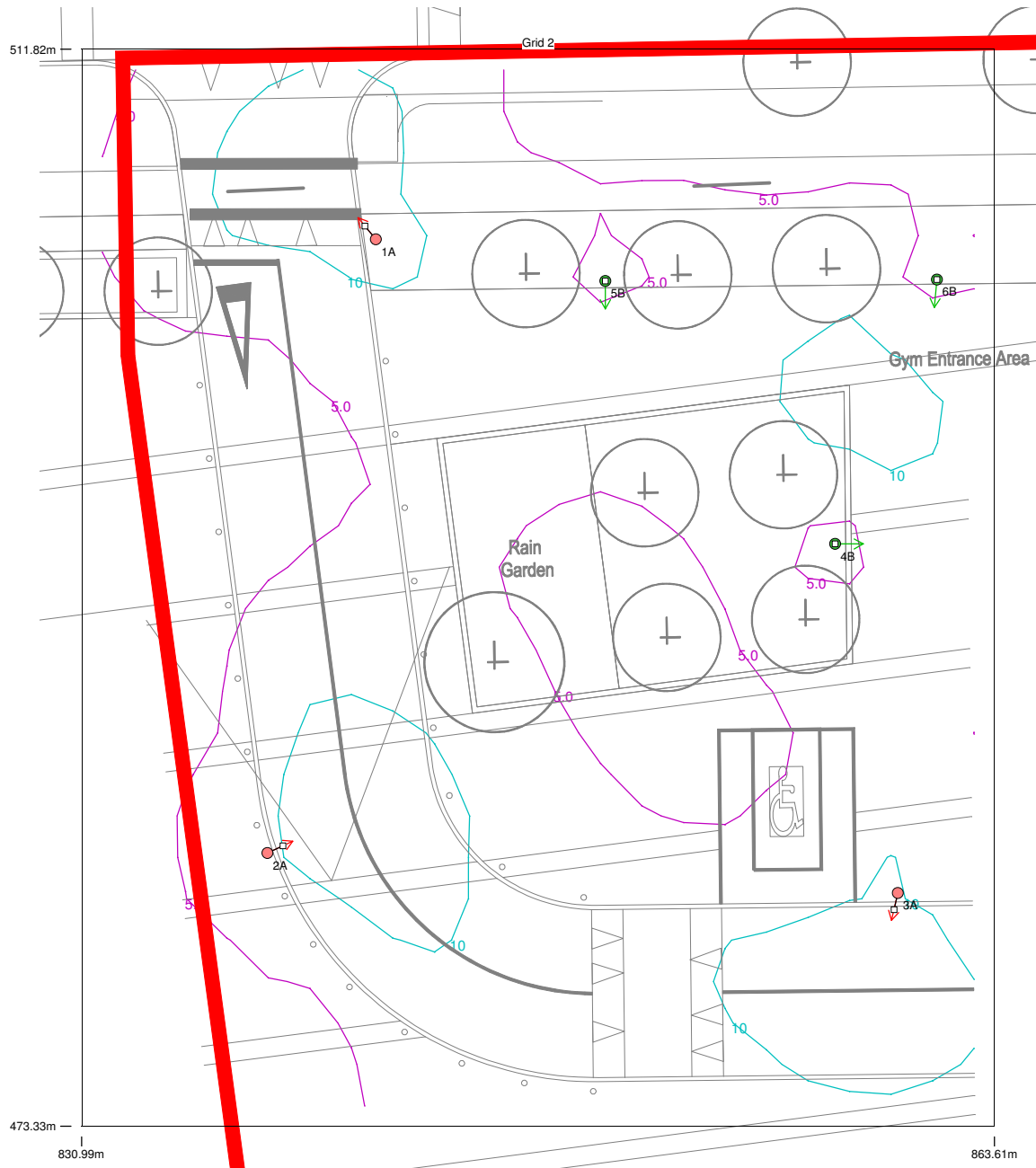


Results

Eav	5.00
Emin	1.01
Emax	14.29
Emin/Emax	0.07
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 2



Results

Eav	7.89
Emin	2.56
Emax	13.93
Emin/Emax	0.18
Emin/Eav	0.32