

DATE: 30 July 2020
DESIGNER: Vinsent Paul
PROJECT No: 18044
PROJECT NAME: St Laurences Park, Stillorgan



Outdoor Lighting Report

PREPARED BY: Delap and Waller,
Bloomfiel House,
Bloomfield Avenue,
Dublin 8

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	P4 standard-5 Lux Zone	-3691.99	165.75	118.86	65.26	1.49	1.48
2	20Lux zone - Part M	-3582.41	176.67	31.34	47.96	1.49	1.50
3	100 lux zone- Part M	-3565.46	211.20	8.79	10.25	1.46	1.46

Luminaires

Luminaire A Data



Supplier	ASD Lighting
Type	HWD-#4LED1230-S4 Osram Rev 1
Lamp(s)	4000K Osram LED
LampFlux(klm)/Colour	1.47 4000/72
File Name	HWD-#4LED1230-S4 (13w).ldt
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	536.5, 68.6, 0.0
No. in Project	2

Luminaire B Data



Supplier	ASD Lighting
Type	HWD-#4LED1250-M2 Osram Rev 1
Lamp(s)	4000K Osram LED
LampFlux(klm)/Colour	2.07 4000/72
File Name	HWD-#4LED1250-M2 (21w).ldt
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	878.0, 380.4, 0.7
No. in Project	5

Luminaire C Data



Supplier	ASD Lighting
Type	HWD8-#4LED10050-S0 Osram Rev 1
Lamp(s)	4000K Osram LED
LampFlux(klm)/Colour	18.81 4000/72
File Name	HWD8-#4K10050-S0 (154w).ldt
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	390.0, 29.1, 0.0
No. in Project	1

Luminaire D Data

Supplier	
Type	Stealth Elite Black Clear LED 4000K 430 W de Lens
Lamp(s)	LED
LampFlux(klm)/Colour	1.28 4000k/80
File Name	SEL-B4LED430-W.ldt
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	814.9, 427.2, 45.2
No. in Project	3

Luminaire F Data

Supplier	
Type	Mini Horizon Louvre LED Black Opal 4000K 600
Lamp(s)	LED
LampFlux(klm)/Colour	0.28 4000K/80
File Name	HR2-BLL4LED600.ldt
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	173.4, 107.1, 51.6
No. in Project	8

Luminaire G Data



Supplier	Thorn UK
Type	Avenue F2 - Clear Diffuser - clear ring - 18 x LEDs 4000K 350
Lamp(s)	LED 4000K
LampFlux(klm)/Colour	2.22 4000/
File Name	AVF18L35RS4KG32_DC.LDT
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	271.6, 199.6, 46.2
No. in Project	4

Luminaires



Luminaire H Data

Supplier	
Type	BW76_LB77
Lamp(s)	LED neutral white
Lamp Flux (klm)	0.96
File Name	BW76_LB77-H-610mm.IES
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	167.5, 321.0, 81.0
No. in Project	3

Luminaire I Data

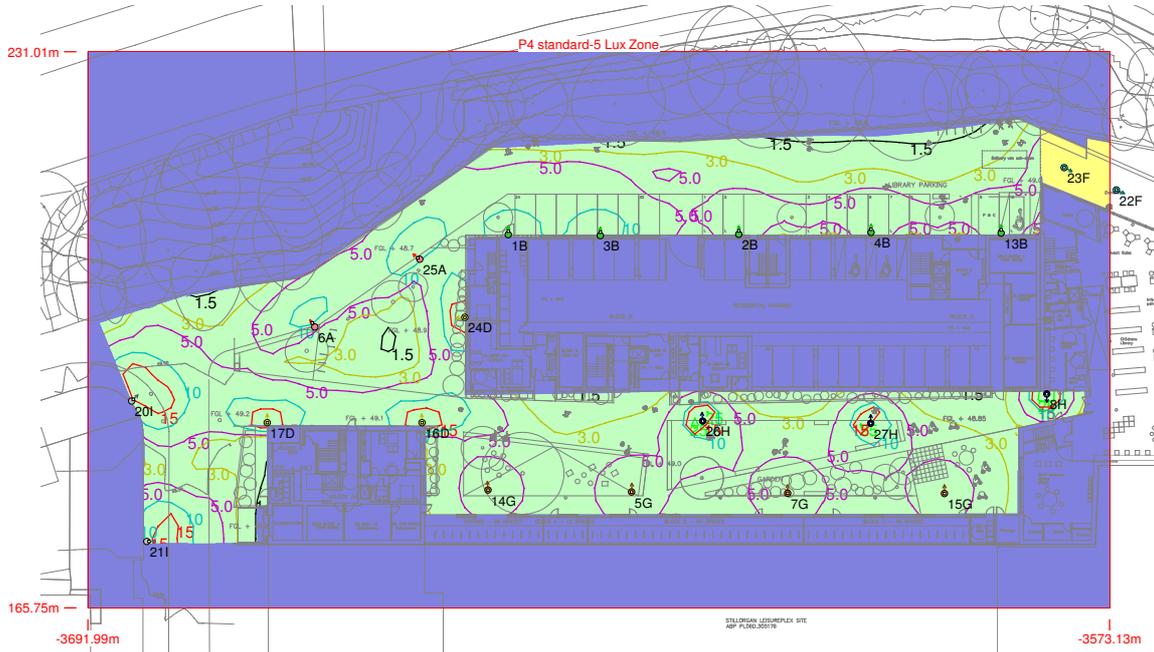
Supplier	ASD Lighting
Type	HWD-#4LED1260-S0 Osram Rev 1
Lamp(s)	4000K Osram LED
LampFlux(klm)/Colour	2.70 4000/72
File Name	HWD-#4LED1260-S0 (24w).ldt
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	430.0, 63.8, 0.1
No. in Project	2

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	B	-3643.10	209.57	4.50	90.00	5.00	0.00	0.40			
2	B	-3616.28	209.61	4.50	90.00	60.00	0.00	0.40			
3	B	-3632.41	209.46	4.50	90.00	5.00	0.00	0.40			
4	B	-3600.89	209.81	4.50	90.00	60.00	0.00	0.40			
5	G	-3628.74	179.40	4.00	88.00	0.00	0.00	0.00			
6	A	-3665.60	198.73	6.00	123.00	0.00	0.00	0.55			
7	G	-3610.62	179.22	4.00	90.00	0.00	0.00	0.00			
8	H	-3580.46	190.89	1.00	270.00	0.00	0.00	0.00			
9	F	-3566.61	212.10	3.00	326.00	0.00	0.00	0.00			
10	F	-3563.51	207.15	3.00	272.00	0.00	0.00	0.00			
11	F	-3563.57	201.48	3.00	269.00	0.00	0.00	0.00			
12	C	-3561.57	218.57	6.00	209.00	0.00	0.00	0.40			
13	B	-3585.78	209.74	4.50	90.00	60.00	0.00	0.40			
14	G	-3645.46	179.61	4.00	95.00	0.00	0.00	0.00			
15	G	-3592.36	179.19	4.00	90.00	0.00	0.00	0.00			
16	D	-3653.15	187.52	3.50	91.00	0.00	0.00	0.00			
17	D	-3671.14	187.52	3.50	90.00	0.00	0.00	0.00			
18	F	-3563.42	195.68	2.70	267.00	0.00	0.00	0.00			
19	F	-3563.39	190.19	2.70	271.00	0.00	0.00	0.00			
20	I	-3686.88	190.05	6.00	45.00	0.00	0.00	0.25			
21	I	-3685.13	173.58	6.00	1.00	0.00	0.00	0.25			
22	F	-3572.37	214.79	3.00	336.00	0.00	0.00	0.00			
23	F	-3578.43	217.41	3.00	334.00	0.00	0.00	0.00			
24	D	-3648.16	199.86	3.50	183.00	0.00	0.00	0.00			
25	A	-3653.41	206.68	6.00	142.00	0.00	0.00	0.25			
26	H	-3620.51	187.70	1.00	94.00	0.00	0.00	0.00			
27	H	-3600.95	187.43	1.00	90.00	0.00	0.00	0.00			
28	F	-3563.42	184.88	2.70	271.00	0.00	0.00	0.00			

Horizontal Illuminance (lux)

P4 standard-5 Lux Zone



Results

Eav	5.78
Emin	1.23
Emax	29.93
Emin/Emax	0.04
Emin/Eav	0.21

Horizontal Illuminance (lux)

20Lux zone - Part M

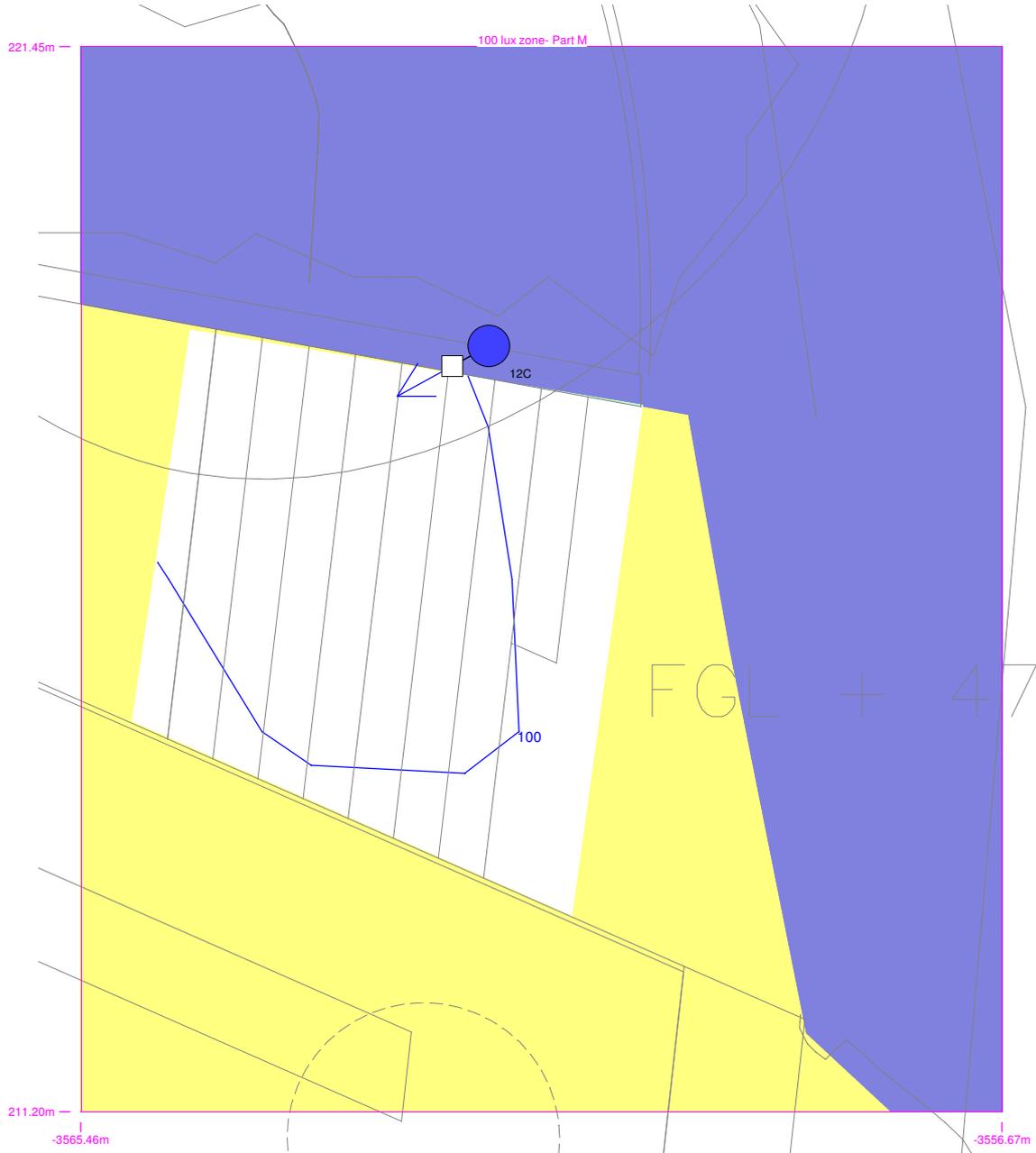


Results

Eav	23.88
Emin	1.26
Emax	134.26
Emin/Emax	0.01
Emin/Eav	0.05

Horizontal Illuminance (lux)

100 lux zone- Part M



Results

Eav	102.84
Emin	70.40
Emax	132.70
Emin/Emax	0.53
Emin/Eav	0.68