

DATE: 21 October 2020
DESIGNER: Alex Naper
PROJECT No: SES 13120 Rev B
PROJECT NAME: Newtownpark Avenue SHD - Waterman Moylan



Residential area designed to EN13201-2:2015 Category P4.

Ramp/step section designed to BS5489-1:2020 Table 3.

Rev A: Updated site layout.

Rev B: Updated boundary line & P20 relocated.

Outdoor Lighting Report

PREPARED BY: Sabre Electrical Services Ltd.
Unit 11,
Bellview Industrial Estate,
Tolka Valley Road,
Dublin 11
Phone Number: 01 8110875
Contact: Graham Sheehan
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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	Residential Area	721812.49	728505.72	172.21	238.00	1.50	1.50
2	1:9 Ramp	721896.94	728594.07	13.00	8.00	0.50	0.50
3	Steps	721877.43	728569.40	5.53	5.01	0.50	0.26

Luminaires



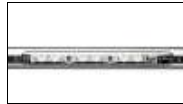
Luminaire A Data

Supplier	C U Phosco
Type	P852-12-P4-WW-CA0500-20W
Lamp(s)	730C WW
Lamp Flux (klm)	2.35
File Name	P852-12-P4-WW-CA0500-20W.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	730.4, 161.4, 0.8
No. in Project	10



Luminaire B Data

Supplier	C U Phosco
Type	P852-12-P4-WW-CA0250-11W
Lamp(s)	730C WW
Lamp Flux (klm)	1.26
File Name	P852-12-P4-WW-CA0250-11W.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	730.4, 161.4, 0.8
No. in Project	10



Luminaire C Data

Supplier	Urbis Schreder
Type	ALINEA Handrail 5117 - 3 LED 350mA WW Profiled Poly Clear, Sm
Lamp(s)	3 LEDs WW
Lamp Flux (klm)	0.37
File Name	ALINEA Handrail 5117 3 LED 350mA WW Profiled Poly Clear Smooth WO7312.1dt
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	681.0, 51.7, 4.1
No. in Project	4



Luminaire D Data

Supplier	C U Phosco
Type	P852-12-F2-WW-CA0450-18W
Lamp(s)	730C WW
Lamp Flux (klm)	2.10
File Name	P852-12-F2-WW-CA0450-18W.ies
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	750.5, 280.0, 34.0
No. in Project	4

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	721976.95	728510.76	6.00	86.00	0.00	0.00	0.40			
2	A	721947.58	728516.71	6.00	83.00	0.00	0.00	0.40			
3	A	721917.18	728529.89	6.00	239.00	0.00	0.00	0.40			
4	A	721885.19	728535.84	6.00	61.00	0.00	0.00	0.40			
5	D	721858.02	728508.88	6.00	61.00	0.00	0.00	0.40			
6	B	721906.21	728503.64	5.00	320.00	0.00	0.00	0.40			
7	A	721863.54	728536.32	6.00	153.00	0.00	0.00	0.40			
8	A	721903.25	728616.34	6.00	153.00	0.00	0.00	0.40			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
9	D	721897.45	728589.22	6.00	140.00	0.00	0.00	0.40			
10	A	721878.71	728564.34	6.00	157.00	0.00	0.00	0.40			
11	C	721901.13	728596.69	1.00	246.00	5.00	0.00	0.10			
12	D	721921.87	728629.84	6.00	66.00	0.00	0.00	0.40			
14	A	721920.96	728647.49	6.00	290.00	0.00	0.00	0.40			
15	D	721936.50	728658.36	6.00	245.00	0.00	0.00	0.40			
16	B	721930.93	728620.34	5.00	28.00	0.00	0.00	0.40			
17	B	721928.24	728604.57	6.00	330.00	0.00	0.00	0.40			
18	B	721917.43	728580.51	6.00	330.00	0.00	0.00	0.40			
19	B	721882.94	728501.56	5.00	251.00	0.00	0.00	0.40			
20	B	721920.70	728491.44	5.00	267.00	0.00	0.00	0.40			
21	B	721954.74	728485.82	5.00	259.00	0.00	0.00	0.40			
22	B	721971.12	728499.66	5.00	340.00	0.00	0.00	0.40			
23	A	721922.90	728512.74	5.00	93.00	0.00	0.00	0.40			
23	B	721915.19	728553.43	6.00	184.00	0.00	0.00	0.40			
24	C	721905.12	728594.69	1.00	240.00	5.00	0.00	0.10			
25	C	721881.78	728570.35	1.00	155.00	0.00	0.00	0.10			
26	B	721911.80	728592.06	6.00	251.00	0.00	0.00	0.40			
27	A	721875.66	728526.29	6.00	156.00	0.00	0.00	0.40			
28	C	721909.00	728592.85	1.00	241.00	5.00	0.00	0.10			

Horizontal Illuminance (lux)

Residential Area

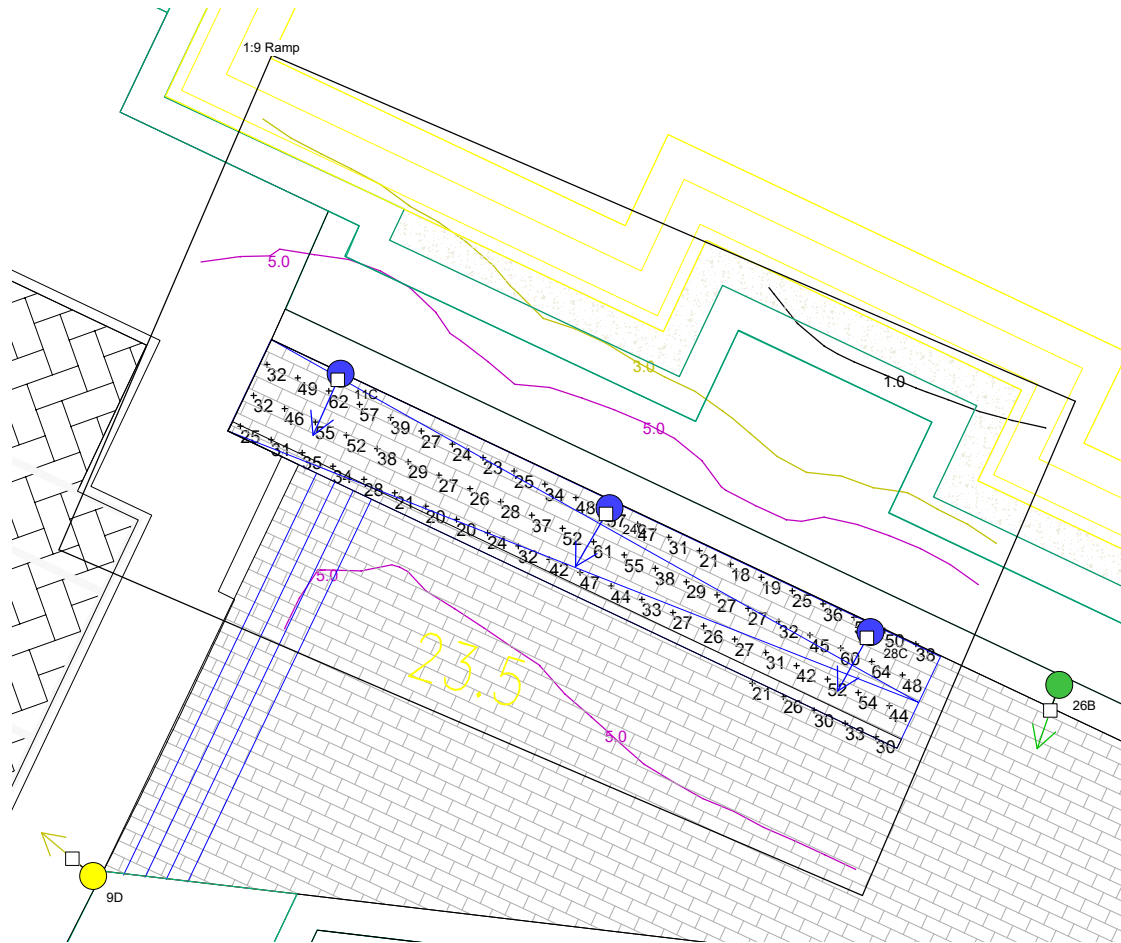


Results

Eav	5.12
Emin	1.07
Emax	37.17
Emin/Emax	0.03
Emin/Eav	0.21

Horizontal Illuminance (lux)

1:9 Ramp

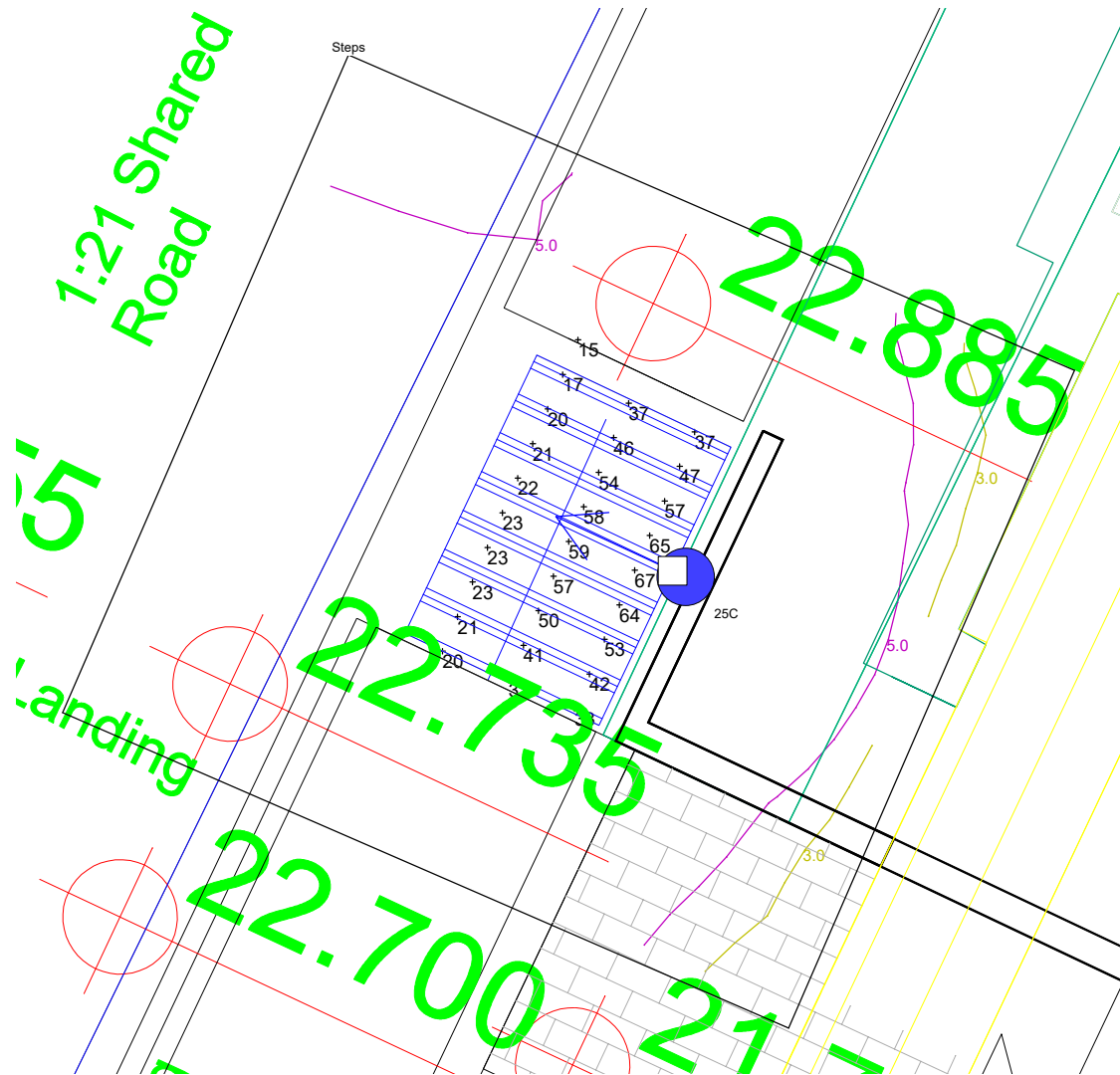


Results

Eav	36.63
Emin	17.88
Emax	63.94
Emin/Emax	0.28
Emin/Eav	0.49

Horizontal Illuminance (lux)

Steps



Results

Eav	39.46
Emin	15.36
Emax	66.97
Emin/Emax	0.23
Emin/Eav	0.39