

DATE: 1 April 2025
DESIGNER: Declan Doyle
PROJECT No: KE/RE/IBC/01 rev 4
PROJECT NAME: Innishmore Ballincollig Cork



Lighting to IS EN 13201-2:2015

Estate lighting to class P3, walkway lighting to class P4
estate entrances to class C3

Estate lighting - 3000k, Dimming to U14 protocol

A) Philips Lumistreet eco BGS010 DW 2.70klm, 19w CLO
B Philips Lumistreet Micro BGP291 DRXN1 0.80klm, 6w CLO
C) Philips Lumistreet eco BGS010 DW 4.00klm, 26w CLO
c/w nema 7 pin socket & photocell

6m columns estate,
10m columns innishmore court & lawn (existing)

Outdoor Lighting Report

NOTE: 1) COLUMNS 16B/17B/19B TO BE HINGED TYPE
2) LUMINAIRE TYPE D/E/F/G/H ARE EXISTING -
FOR CALCULATION ONLY

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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	Site	558050.37	570794.39	140.19	108.16	1.49	1.48
2	Concrete paving walkway	558071.29	570831.85	2.05	51.04	1.02	1.42
3	Entrance 1	558163.45	570845.13	13.98	17.34	1.40	1.44
4	Entrance 2	558064.56	570882.82	18.51	13.43	1.42	1.49
5	Walkway 2	558135.28	570875.78	1.99	24.89	0.99	1.46

Luminares

Luminaire A Data

Supplier	
Type	LumiStreet gen2 Eco
Lamp(s)	LED27 L96@100kh /730 T25
Lamp Flux (klm)	2.70
File Name	BGS010 T25 FP LED27 L96@100kh-730 D W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	689.8, 26.2, 0.0
No. in Project	15

Luminaire B Data

Supplier	Philips
Type	BGP291 DRXN0
Lamp(s)	LED-HB 5.2S 730
Lamp Flux (klm)	0.80
File Name	LumiStreet Gen2 Micro_BGP291_DRXN0_800_6LED_5.2S_CLO_L90_730.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	1545.3, 23.9, 0.0
No. in Project	4



Luminaire C Data

Supplier	
Type	LumiStreet gen2 Eco
Lamp(s)	LED40 L95@100kh /730 T25
Lamp Flux (klm)	4.00
File Name	BGS010 T25 FP LED40 L95@100kh-730 D W.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	682.8, 25.9, 0.0
No. in Project	3

Luminaire D Data

Supplier	Urbis Schreder
Type	AXIA 3.3 5266 Integrated lenses 64 OSLO N SQUARE GIANT@420mA
Lamp(s)	64 OSLO N SQUARE GIANT@420mA WW 730 230V
LampFlux(klm)/Colour	11.53 WW 3000K/70
File Name	AXIA 3.3 5266 64 OSLO N SQUARE GIANT T 420mA WW 730 79W 429372 Integrated...
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	1241.8, 138.8, 0.0
No. in Project	1



EXISTING

Luminaire E Data

Supplier	Urbis Schreder
Type	AXIA 3.2 5266 Integrated lenses 32 OSLO N SQUARE GIANT@700mA
Lamp(s)	32 OSLO N SQUARE GIANT@700mA WW 730 230V
LampFlux(klm)/Colour	8.88 WW 3000K/70
File Name	AXIA 3.2 5266 32 OSLO N SQUARE GIANT T 700mA WW 730 69W 430082 Integrated...
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	1211.8, 139.9, 0.0
No. in Project	1



Luminaire F Data

Supplier	Urbis Schreder
Type	AXIA 3.2 5266 Integrated lenses 32 OSLO N SQUARE GIANT@600mA
Lamp(s)	32 OSLO N SQUARE GIANT@600mA WW 730 230V
LampFlux(klm)/Colour	7.83 WW 3000K/70
File Name	AXIA 3.2 5266 32 OSLO N SQUARE GIANT T 600mA WW 730 59W 430082 Integrated...
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	1211.8, 139.9, 0.0
No. in Project	2



Luminaires

EXISTING

Luminaire G Data



Supplier	Urbis Schreder
Type	AXIA 3.2 5266 Integrated lenses 32 OSLO N SQUARE GIANT@300mA
Lamp(s)	32 OSLO SQUARE GIANT@300mA WW 730 230V
LampFlux(klm)/Colour	4.27 WW 3000K/70
File Name	AXIA 3.2 5266 32 OSLO SQUARE GIAN T 300mA WW 730 29.5W 430082 Integrat...
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	1211.8, 139.9, 0.0
No. in Project	1

Luminaire H Data



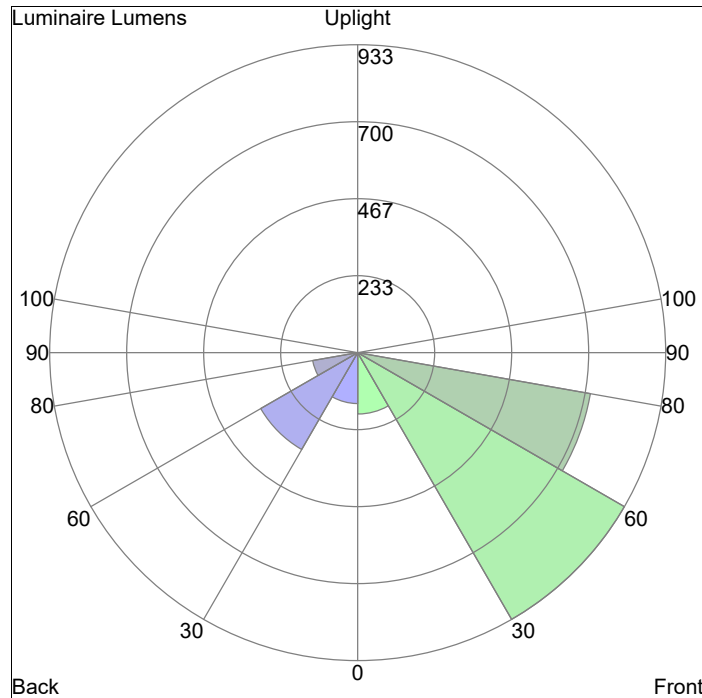
Supplier	Urbis Schreder
Type	AXIA 3.2 5267 Integrated lenses 32 OSLO N SQUARE GIANT@600mA
Lamp(s)	32 OSLO SQUARE GIANT@600mA WW 730 230V
LampFlux(klm)/Colour	7.66 WW 3000K/70
File Name	AXIA 3.2 5267 32 OSLO SQUARE GIAN T 600mA WW 730 59W 430092 Integrated...
Maintenance Factor	0.83
Imax70,80,90(cd/klm)	1001.2, 151.3, 0.0
No. in Project	1

Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	558055.68	570820.24	6.00	15.00	0.00	0.00	0.40			
2	A	558081.75	570834.24	6.00	284.00	0.00	0.00	0.40			
3	A	558073.97	570824.75	6.00	103.00	0.00	0.00	0.40			
5	A	558106.74	570835.82	6.00	104.00	0.00	0.00	0.40			
6	A	558141.75	570845.00	6.00	104.00	0.00	0.00	0.40			
7	A	558103.41	570849.33	6.00	282.00	0.00	0.00	0.40			
8	A	558122.64	570854.22	6.00	284.00	0.00	0.00	0.40			
9	A	558163.43	570841.19	6.00	194.00	0.00	0.00	0.40			
10	A	558145.89	570835.80	6.00	15.00	0.00	0.00	0.40			
11	A	558156.55	570868.93	6.00	195.00	0.00	0.00	0.40			
12	A	558138.65	570864.64	6.00	15.00	0.00	0.00	0.40			
13	A	558082.83	570862.15	6.00	193.00	0.00	0.00	0.40			
14	A	558077.00	570885.05	6.00	145.00	0.00	0.00	0.40			
15	C	558066.65	570885.89	8.00	101.00	0.00	0.00	1.00			
16	B	558067.11	570849.49	6.00	15.00	0.00	0.00	0.40			
17	B	558061.58	570870.82	6.00	15.00	0.00	0.00	0.40			
17	C	558166.48	570844.14	6.00	11.00	0.00	0.00	1.00			
19	B	558132.69	570887.23	6.00	16.00	0.00	0.00	0.40			
20	A	558122.21	570839.84	6.00	104.00	0.00	0.00	0.40			
21	A	558092.99	570840.39	6.00	192.00	0.00	0.00	0.40			
21	C	558163.37	570861.15	6.00	12.00	0.00	0.00	1.00			
22	B	558153.37	570887.80	6.00	13.00	0.00	0.00	0.00			
23	D	558184.29	570838.59	10.00	194.00	0.00	0.00	0.35			
24	E	558173.95	570885.50	10.00	192.00	0.00	0.00	0.35			
25	F	558069.85	570900.71	10.00	282.00	0.00	0.00	0.35			
26	G	558103.54	570908.81	10.00	287.00	0.00	0.00	0.35			
27	F	558126.85	570914.84	10.00	288.00	0.00	0.00	0.35			
28	H	558155.11	570922.29	10.00	286.00	0.00	0.00	0.35			

Luminaire Classification System (LCS) Graphs

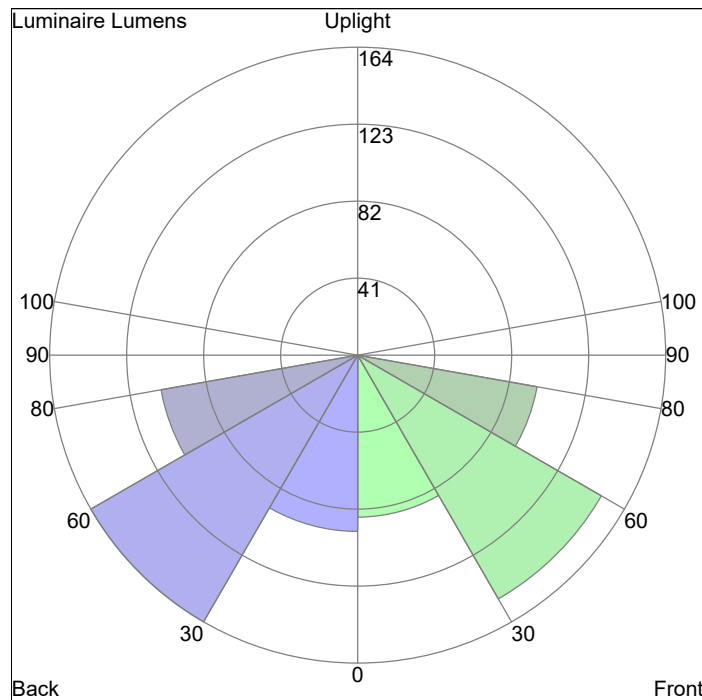
Luminaire A LumiStreet gen2 Eco



LCS	Lumens	%Lamp	%Lum
FL	186.3	6.9	7.5
FM	933.4	34.6	37.6
FH	716.4	26.5	28.9
FVH	8.6	0.3	0.3
BL	154.5	5.7	6.2
BM	339.0	12.6	13.7
BH	138.2	5.1	5.6
BVH	5.8	0.2	0.2
UL	0.0	0.0	0.0
UH	0.0	0.0	0.0
Total	2482.1	91.9	100.0

BUG rating=B1-U0-G1

Luminaire B BGP291 DRXN0

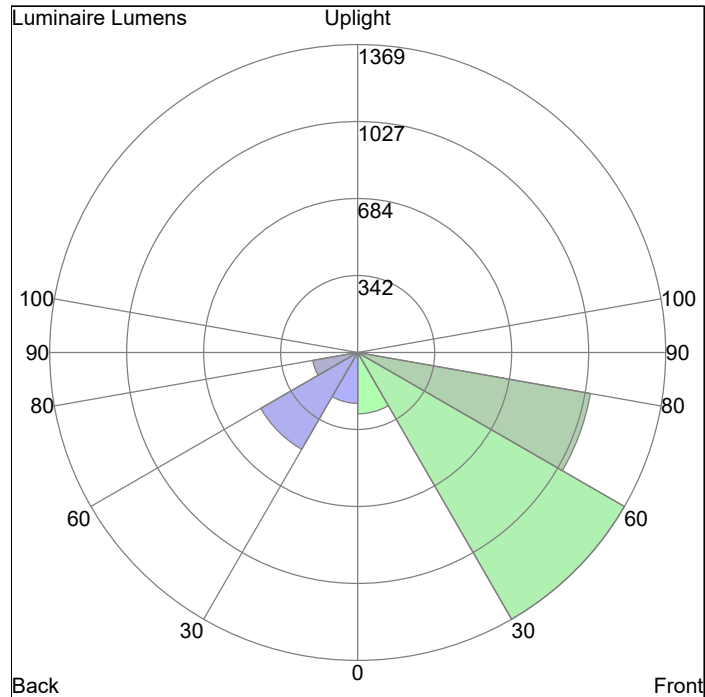


LCS	Lumens	%Lamp	%Lum
FL	86.3	10.8	12.3
FM	149.9	18.7	21.4
FH	97.0	12.1	13.9
FVH	1.8	0.2	0.3
BL	93.9	11.7	13.4
BM	164.0	20.5	23.4
BH	106.2	13.3	15.2
BVH	1.4	0.2	0.2
UL	0.0	0.0	0.0
UH	0.0	0.0	0.0
Total	700.3	87.5	100.0

BUG rating=B1-U0-G0

Luminaire Classification System (LCS) Graphs Continued

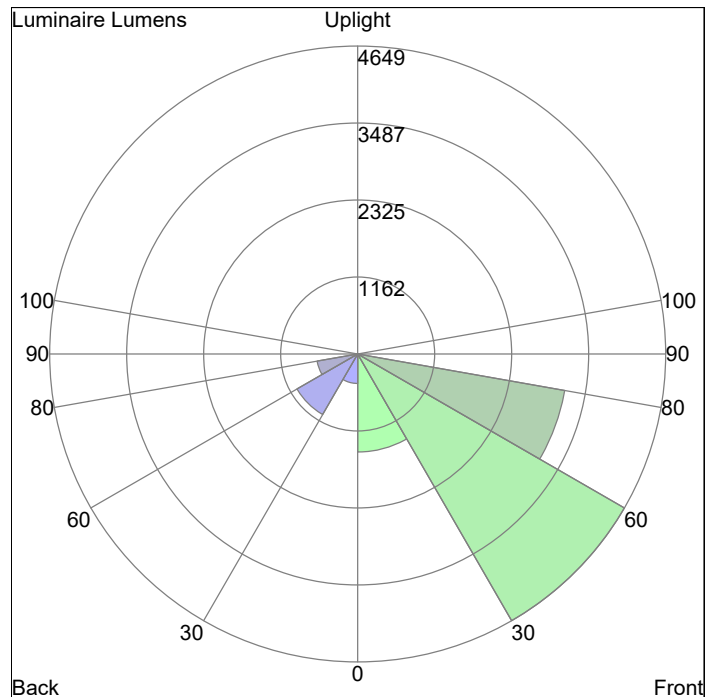
Luminaire C LumiStreet gen2 Eco



LCS	Lumens	%Lamp	%Lum
FL	273.2	6.8	7.5
FM	1368.8	34.2	37.6
FH	1050.6	26.3	28.9
FVH	12.6	0.3	0.3
BL	226.5	5.7	6.2
BM	497.1	12.4	13.7
BH	202.6	5.1	5.6
BVH	8.5	0.2	0.2
UL	0.0	0.0	0.0
UH	0.0	0.0	0.0
Total	3640.1	91.0	100.0

BUG rating=B1-U0-G1

Luminaire D AXIA 3.3 5266 Integrated lenses 64 OSLO SQUARE GIANT@420mA

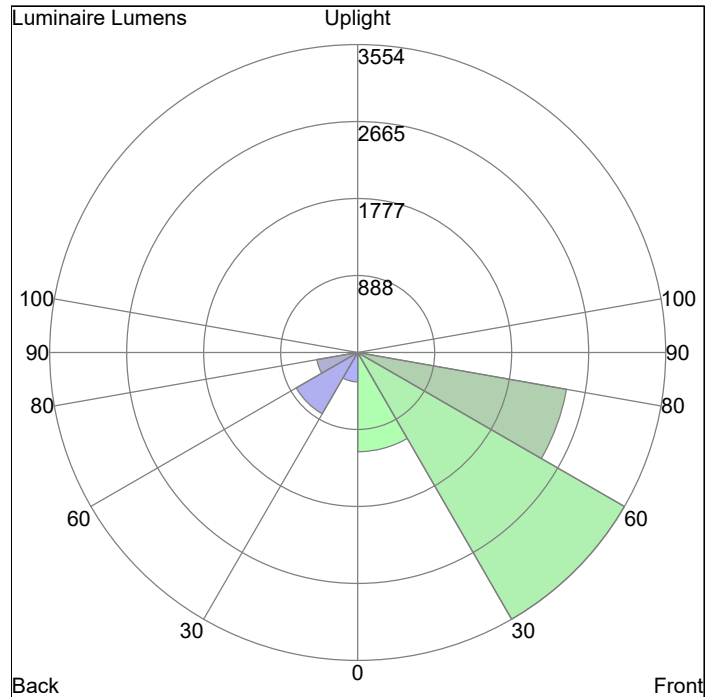


LCS	Lumens	%Lamp	%Lum
FL	1481.1	12.8	12.8
FM	4649.5	40.3	40.3
FH	3174.3	27.5	27.5
FVH	66.8	0.6	0.6
BL	445.7	3.9	3.9
BM	1056.0	9.2	9.2
BH	620.3	5.4	5.4
BVH	40.4	0.4	0.4
UL	0.0	0.0	0.0
UH	0.0	0.0	0.0
Total	11533.8	100.0	100.0

BUG rating=B3-U0-G2

Luminaire Classification System (LCS) Graphs Continued

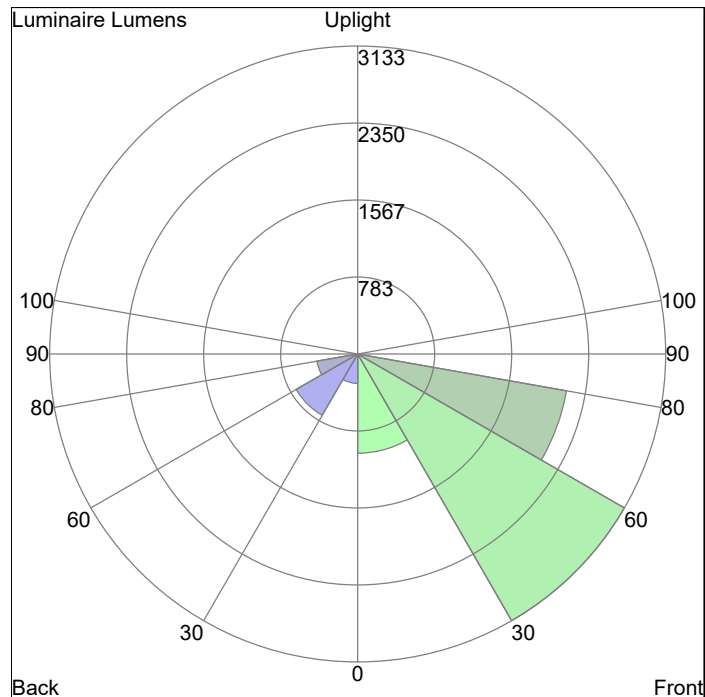
Luminaire E AXIA 3.2 5266 Integrated lenses 32 OSLON SQUARE GIANT@700mA



LCS	Lumens	%Lamp	%Lum
FL	1145.9	12.9	12.9
FM	3553.9	40.0	40.0
FH	2447.3	27.6	27.6
FVH	53.0	0.6	0.6
BL	340.1	3.8	3.8
BM	818.4	9.2	9.2
BH	477.7	5.4	5.4
BVH	40.7	0.5	0.5
UL	0.0	0.0	0.0
UH	0.0	0.0	0.0
Total	8876.9	100.0	100.0

BUG rating=B2-U0-G2

Luminaire F AXIA 3.2 5266 Integrated lenses 32 OSLON SQUARE GIANT@600mA

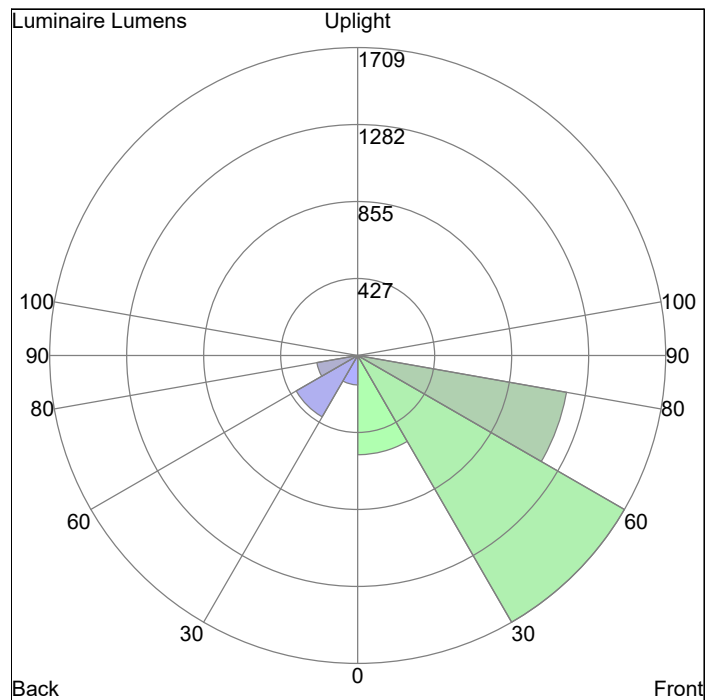


LCS	Lumens	%Lamp	%Lum
FL	1010.2	12.9	12.9
FM	3133.2	40.0	40.0
FH	2157.5	27.6	27.6
FVH	46.7	0.6	0.6
BL	299.8	3.8	3.8
BM	721.5	9.2	9.2
BH	421.1	5.4	5.4
BVH	35.9	0.5	0.5
UL	0.0	0.0	0.0
UH	0.0	0.0	0.0
Total	7825.9	100.0	100.0

BUG rating=B2-U0-G2

Luminaire Classification System (LCS) Graphs Continued

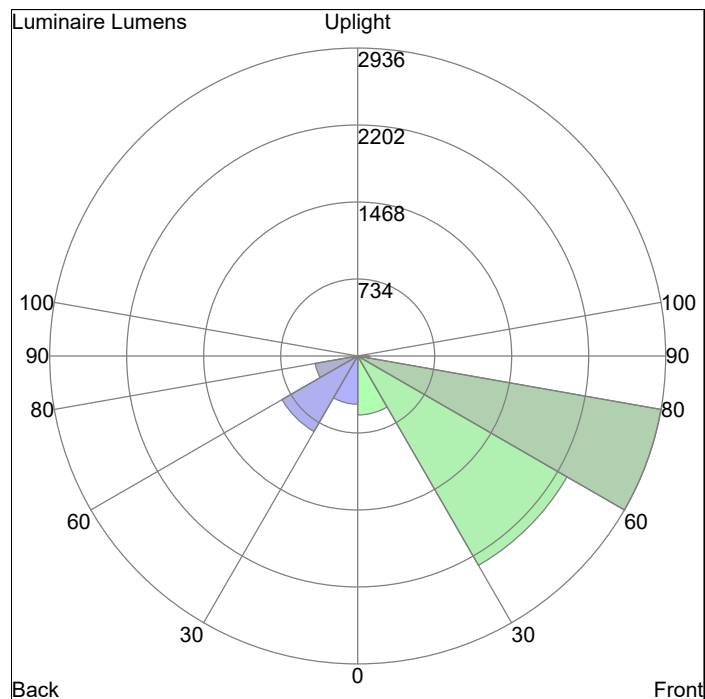
Luminaire G AXIA 3.2 5266 Integrated lenses 32 OSLON SQUARE GIANT@300mA



LCS	Lumens	%Lamp	%Lum
FL	551.1	12.9	12.9
FM	1709.1	40.0	40.0
FH	1176.9	27.6	27.6
FVH	25.5	0.6	0.6
BL	163.6	3.8	3.8
BM	393.6	9.2	9.2
BH	229.7	5.4	5.4
BVH	19.6	0.5	0.5
UL	0.0	0.0	0.0
UH	0.0	0.0	0.0
Total	4268.9	100.0	100.0

BUG rating=B1-U0-G1

Luminaire H AXIA 3.2 5267 Integrated lenses 32 OSLON SQUARE GIANT@600mA

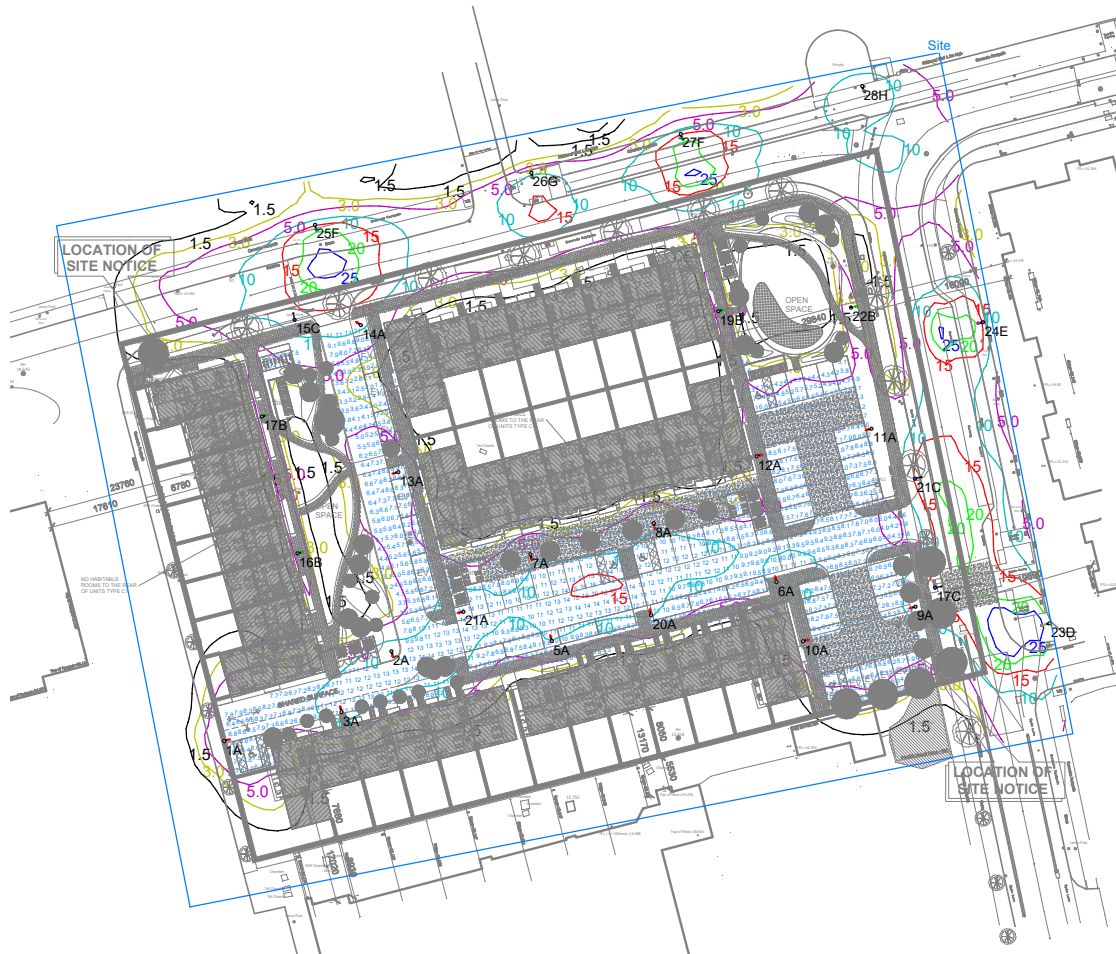


LCS	Lumens	%Lamp	%Lum
FL	563.1	7.4	7.4
FM	2304.8	30.1	30.1
FH	2936.1	38.3	38.3
FVH	114.3	1.5	1.5
BL	460.8	6.0	6.0
BM	831.6	10.9	10.9
BH	410.9	5.4	5.4
BVH	36.5	0.5	0.5
UL	0.0	0.0	0.0
UH	0.0	0.0	0.0
Total	7658.0	100.0	100.0

BUG rating=B2-U0-G2

Horizontal Illuminance (lux)

Site

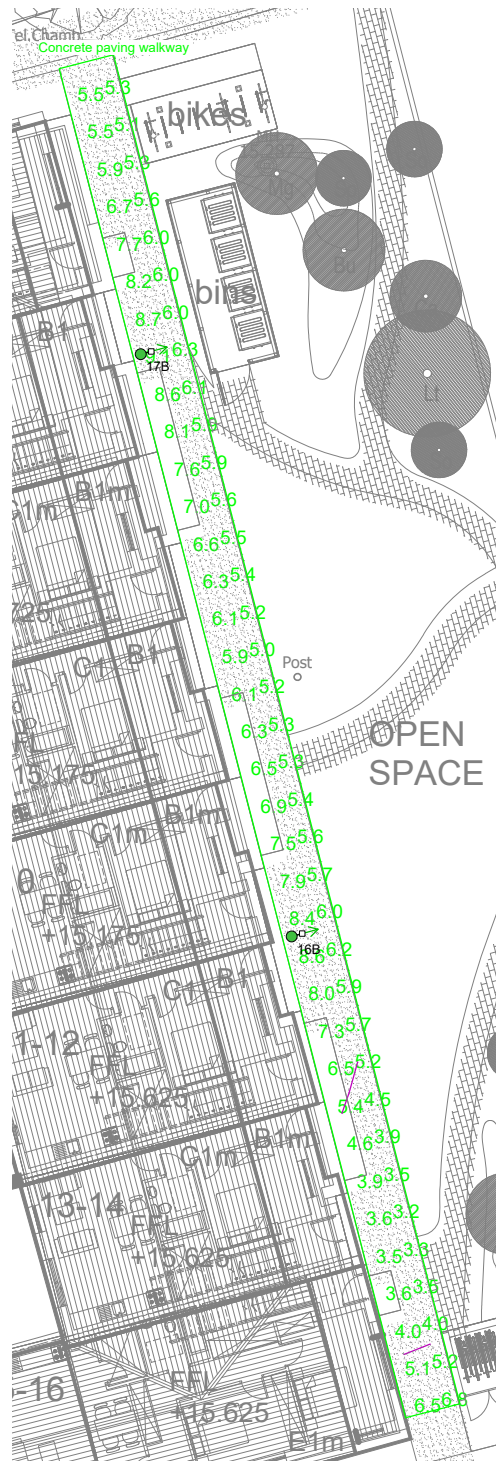


Results

Eav	7.67
Emin	1.00
E _{max}	15.92
E _{min} /E _{max}	0.06
E _{min} /E _{av}	0.13
E _{max} /E _{av}	2.07

Horizontal Illuminance (lux)

Concrete paving walkway

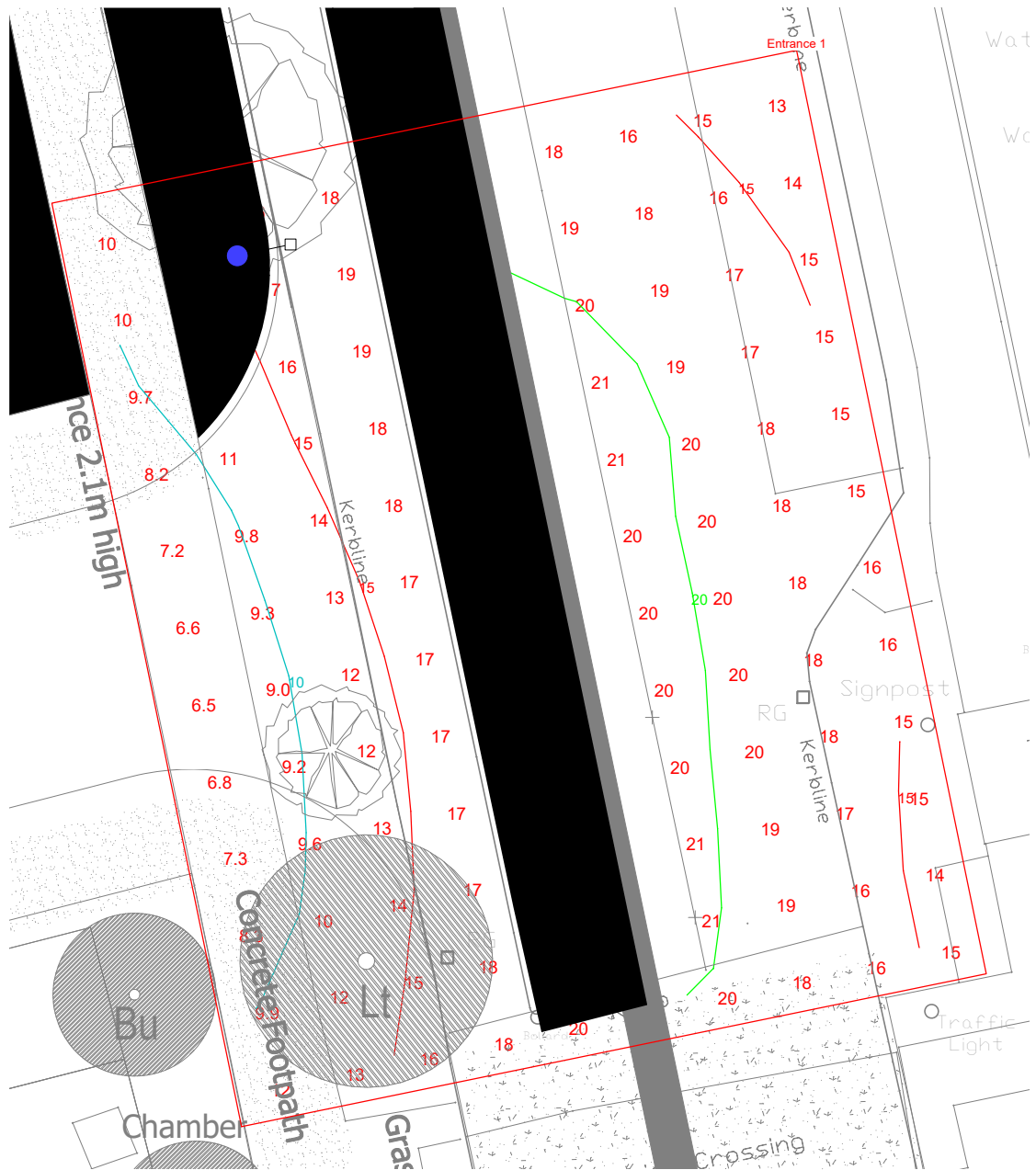


Results

Eav	5.88
Emin	3.25
E _{max}	9.07
Emin/E _{max}	0.36
Emin/Eav	0.55
E _{max} /Eav	1.54

Horizontal Illuminance (lux)

Entrance 1

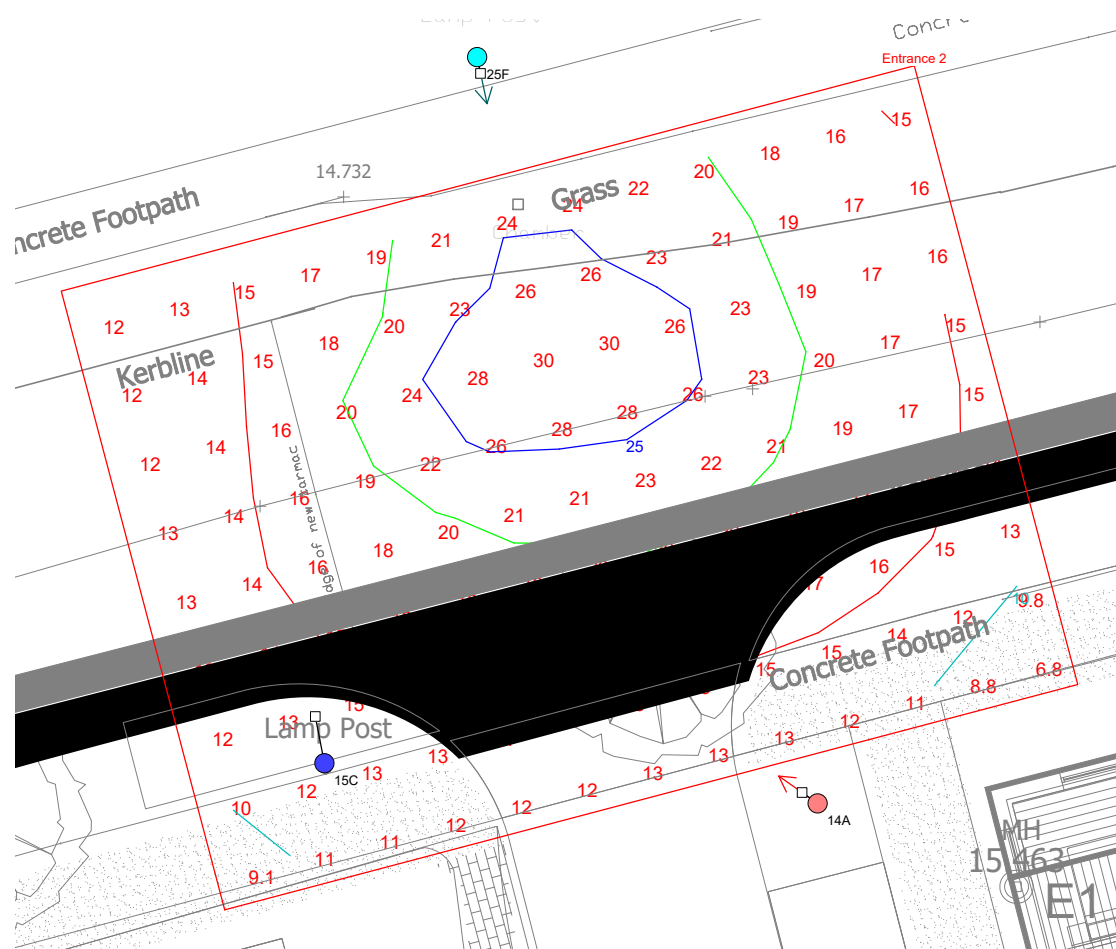


Results

Eav	16.20
Emin	6.53
Emax	20.96
Emin/Emax	0.31
Emin/Eav	0.40
Emax/Eav	1.29

Horizontal Illuminance (lux)

Entrance 2

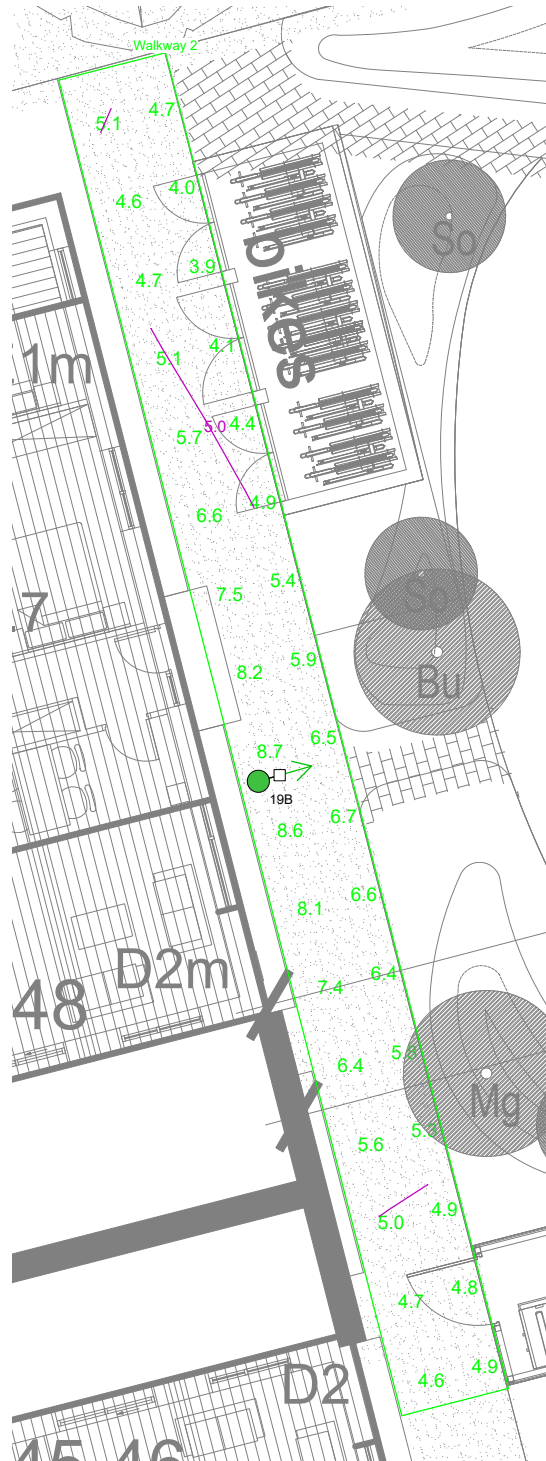


Results

Eav	17.17
Emin	6.84
Emax	29.84
Emin/Emax	0.23
Emin/Eav	0.40
Emax/Eav	1.74

Horizontal Illuminance (lux)

Walkway 2



Results

Eav	5.76
Emin	3.89
Emax	8.69
Emin/Emax	0.45
Emin/Eav	0.68
Emax/Eav	1.51