

DATE: 27 January 2025
DESIGNER: Declan Doyle
PROJECT No: KE/RE/KRG/01
PROJECT NAME: Kilgobbin road Glencullen lighting



Lighting to IS EN 13201-2: 2015

Residential Lighting to class P4, walkways to class P4
Dimming To U14 Regime , 3000k c/temp.

- A) Philips Lumistreet micro BGP291 DW50 BL1 2.80klm 17w CLO
- B) Philips Lumistreet micro BGP291 DM11 BL1 2.80klm 17w CLO
- C) Philips Lumistreet micro BGP291 DRXN1 1.80klm 12w CLO
- D) Philips Towntune BDP260 DS50 3.50klm 26w CLO
C/W Nema 7 Pin Socket & photocell

6m Columns - Estate & walkways

Outdoor Lighting Report

PREPARED BY: Declan Doyle
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www.astrotek.ie | www.kellihers.com | www.rexel.ie

Layout Report

General Data

Dimensions in Metres Angles in Degrees
Grid Origin 320.4m x 226.5m
Area 207.2m x 128.8m
Sample Spacing 1.49m x 1.50m

Luminaire

Luminaire A Data

Supplier	
Type	BGP291 DW50 BL1
Lamp(s)	LED-HB 5.2S 730
Lamp Flux (klm)	2.80
File Name	LumiStreet Gen2 Micro_BGP291_DW50 B L1_2800_20LED_5.2S_CLO_L90_730.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	595.4, 30.8, 0.0
No. in Project	17

Luminaire B Data

Supplier	
Type	BGP291 DM11 BL1
Lamp(s)	LED-HB 5.2S 730
Lamp Flux (klm)	2.80
File Name	LumiStreet Gen2 Micro_BGP291_DM11 BL 1_2800_20LED_5.2S_CLO_L90_730.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	537.0, 80.5, 0.0
No. in Project	8

Luminaire C Data

Supplier	
Type	BGP291 DRXN1
Lamp(s)	LED-HB 5.2S 730
Lamp Flux (klm)	1.80
File Name	LumiStreet Gen2 Micro_BGP291_DRXN1_ 1800_10LED_5.2S_CLO_L90_730.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	1155.3, 26.3, 0.0
No. in Project	5

Luminaire D Data

Supplier	
Type	BDP260 DS50 LED35/- NO
Lamp(s)	LED35-4S/730
Lamp Flux (klm)	3.50
File Name	BDP260 1 xLED35-4S_730 DS50.ies
Maintenance Factor	0.80
Imax70,80,90(cd/klm)	282.3, 67.8, 0.0
No. in Project	2

Layout

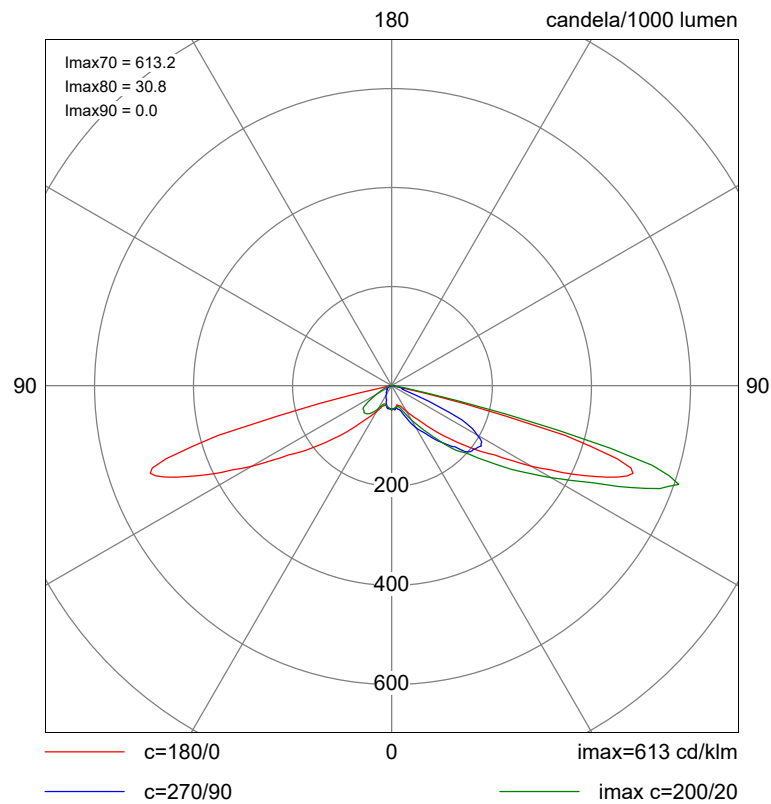
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	344.67	314.78	6.00	163.00	0.00	0.00	0.00			
2	A	344.81	296.95	6.00	255.00	0.00	0.00	0.00			
3	A	364.95	290.21	6.00	252.00	0.00	0.00	0.00			
4	A	384.75	283.63	6.00	254.00	0.00	0.00	0.00			
5	A	352.04	326.38	6.00	71.00	0.00	0.00	0.00			
6	A	356.19	319.22	6.00	97.00	0.00	0.00	0.00			
7	A	386.04	325.50	6.00	71.00	0.00	0.00	0.00			
8	A	393.16	337.38	6.00	253.00	0.00	0.00	0.00			
9	A	413.72	336.77	6.00	250.00	0.00	0.00	0.00			
10	A	431.34	331.06	6.00	250.00	0.00	0.00	0.00			

Layout Continued

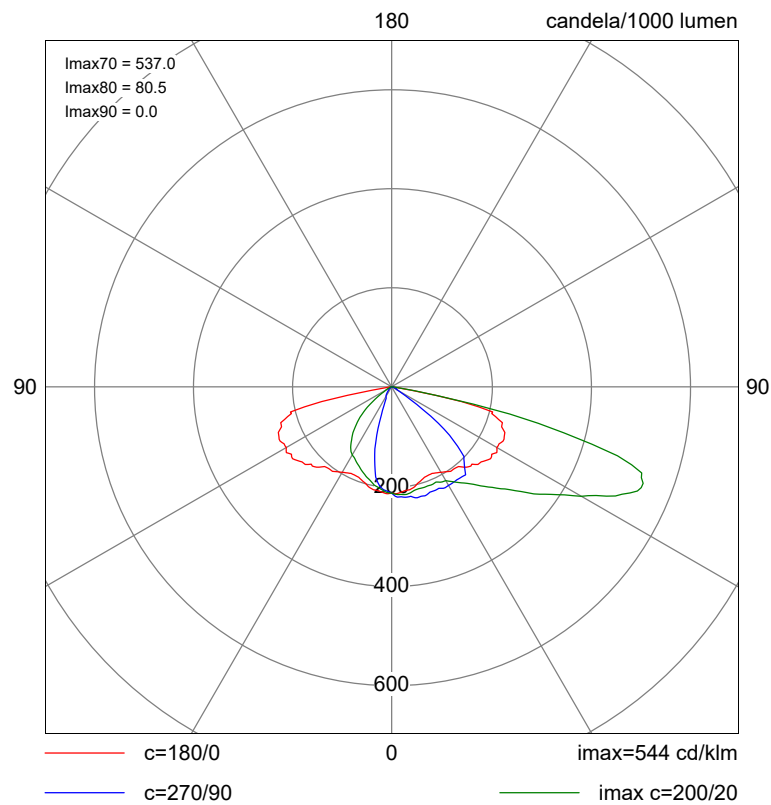
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
11	A	448.25	319.83	6.00	250.00	0.00	0.00	0.00			
12	A	394.23	292.38	6.00	341.00	2.00	0.00	0.00			
13	A	398.53	305.29	6.00	342.00	2.00	0.00	0.00			
14	A	414.90	315.78	6.00	164.00	0.00	0.00	0.00			
15	A	428.31	311.97	6.00	69.00	0.00	0.00	0.00			
16	A	452.87	303.86	6.00	73.00	0.00	0.00	0.00			
17	A	457.78	321.47	6.00	343.00	0.00	0.00	0.00			
18	B	410.52	274.90	6.00	250.00	0.00	0.00	0.00			
19	B	432.04	267.99	6.00	250.00	0.00	0.00	0.00			
20	B	452.73	261.72	6.00	250.00	0.00	0.00	0.00			
21	B	469.50	256.33	6.00	250.00	0.00	0.00	0.00			
22	B	480.67	240.29	6.00	70.00	0.00	0.00	0.00			
23	B	501.46	232.30	6.00	70.00	0.00	0.00	0.00			
24	C	473.91	315.45	6.00	27.00	0.00	0.00	0.00			
25	C	487.39	306.77	6.00	210.00	0.00	0.00	0.00			
26	C	477.83	268.92	6.00	153.00	0.00	0.00	0.00			
27	C	458.91	275.79	6.00	338.00	0.00	0.00	0.00			
28	C	464.74	293.04	6.00	340.00	0.00	0.00	0.00			
29	B	485.97	284.71	6.00	154.00	0.00	0.00	0.00			
30	D	381.14	313.58	6.00	251.00	0.00	0.00	0.00			
31	D	436.82	297.43	6.00	250.00	0.00	0.00	0.00			
32	B	394.59	319.14	6.00	345.00	0.00	0.00	0.00			

Polar Diagrams

Luminaire A BGP291 DW50 BL1

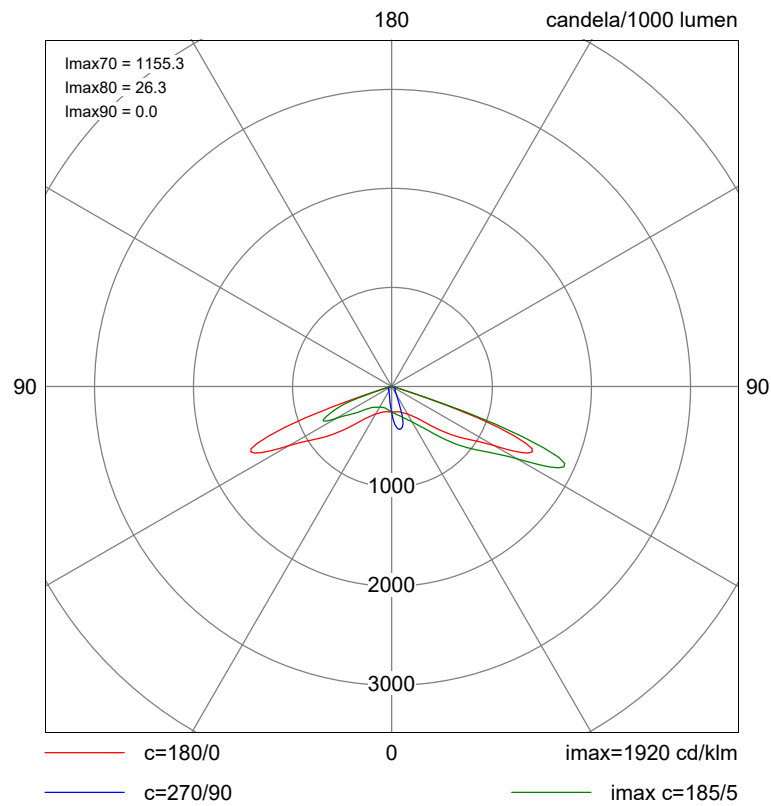


Luminaire B BGP291 DM11 BL1

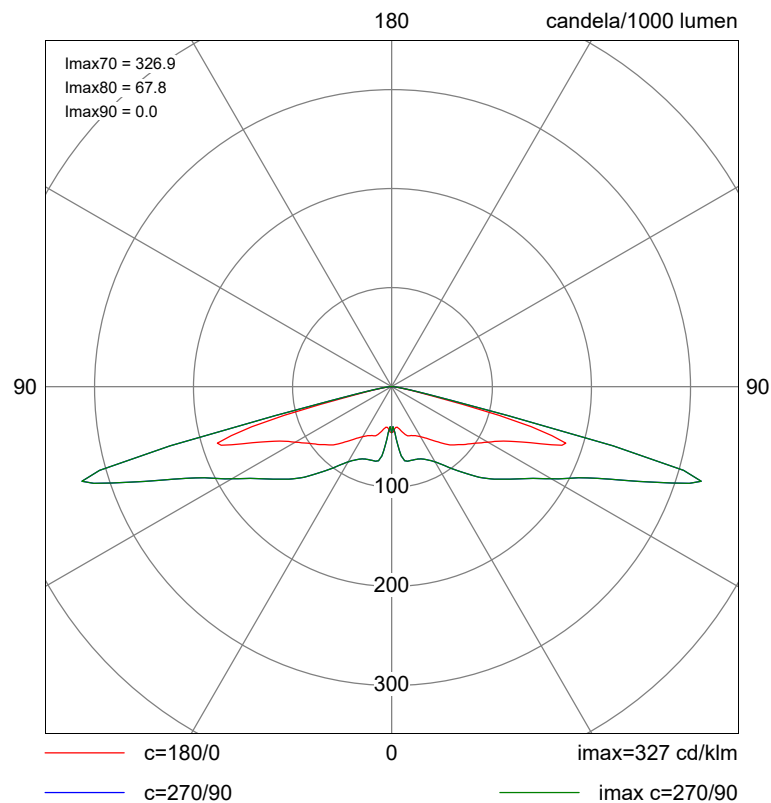


Polar Diagrams Continued

Luminaire C BGP291 DRXN1

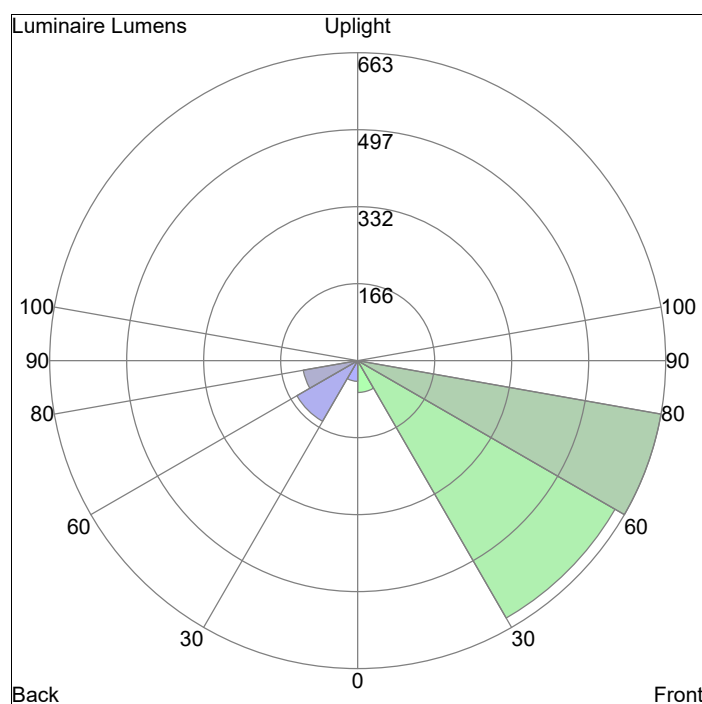


Luminaire D BDP260 DS50 LED35/- NO



Luminaire Classification System (LCS) Graphs

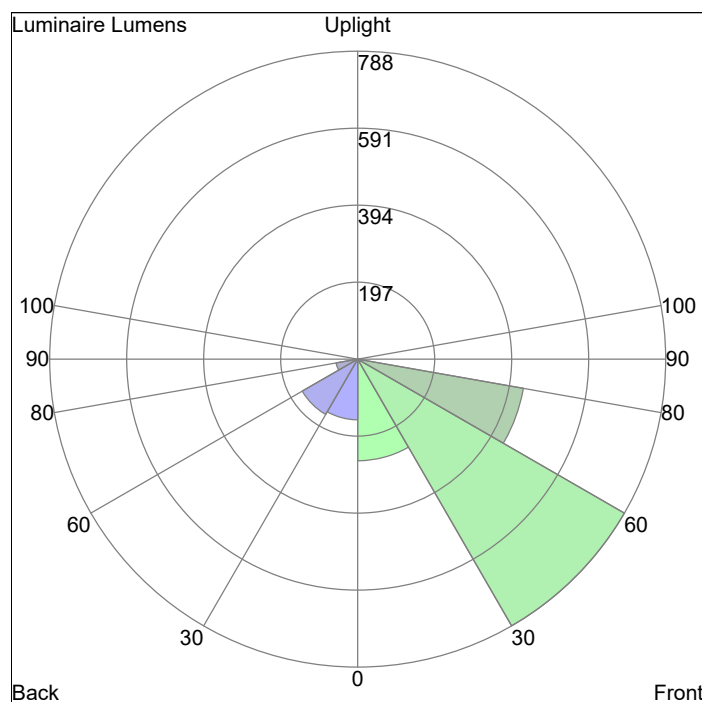
Luminaire A BGP291 DW50 BL1



LCS	Lumens	%Lamp	%Lum
FL	68.7	2.5	4.1
FM	639.9	22.9	37.8
FH	663.2	23.7	39.2
FVH	3.7	0.1	0.2
BL	44.7	1.6	2.6
BM	151.1	5.4	8.9
BH	118.8	4.2	7.0
BVH	1.3	0.0	0.1
UL	0.0	0.0	0.0
UH	0.0	0.0	0.0
Total	1691.4	60.4	100.0

BUG rating=B1-U0-G1

Luminaire B BGP291 DM11 BL1

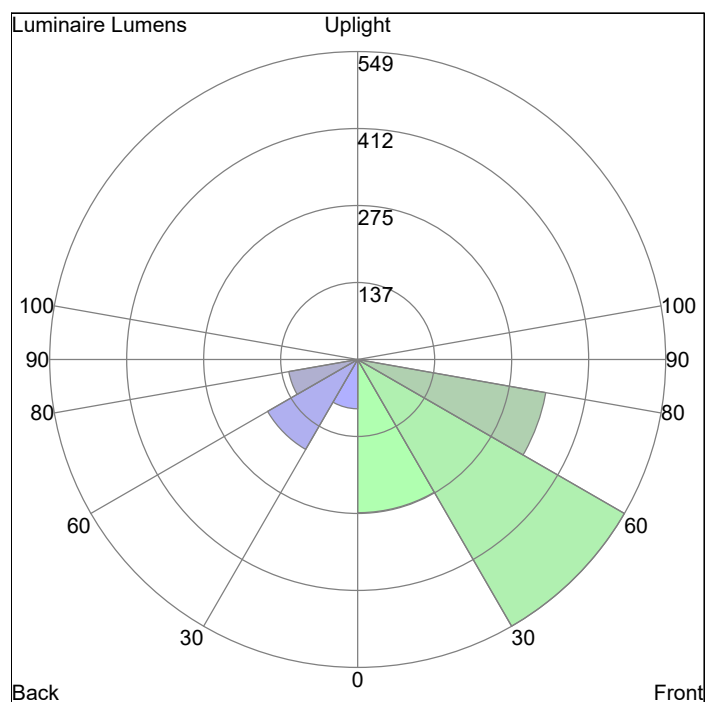


LCS	Lumens	%Lamp	%Lum
FL	260.2	9.3	14.0
FM	788.1	28.1	42.4
FH	430.7	15.4	23.2
FVH	4.1	0.1	0.2
BL	155.5	5.6	8.4
BM	163.6	5.8	8.8
BH	55.9	2.0	3.0
BVH	0.5	0.0	0.0
UL	0.0	0.0	0.0
UH	0.0	0.0	0.0
Total	1858.5	66.4	100.0

BUG rating=B1-U0-G0

Luminaire Classification System (LCS) Graphs Continued

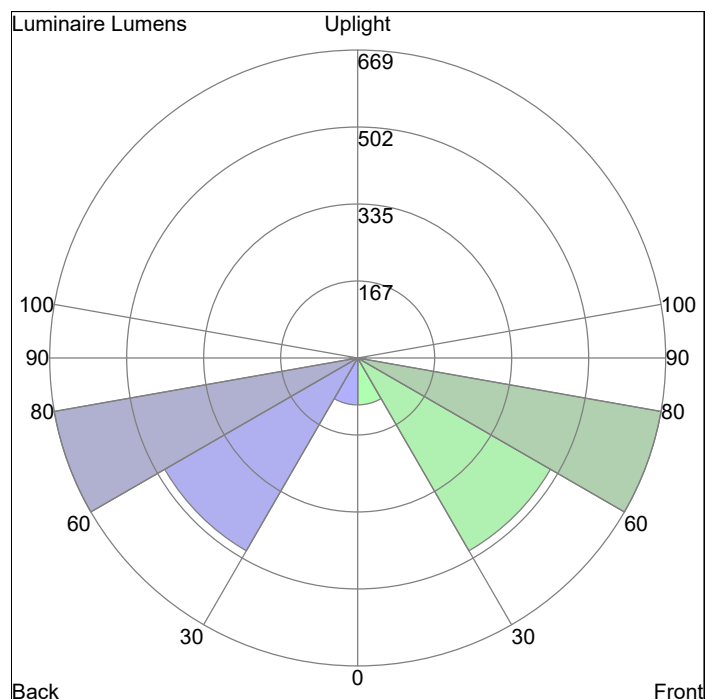
Luminaire C BGP291 DRXN1



LCS	Lumens	%Lamp	%Lum
FL	273.4	15.2	17.4
FM	549.1	30.5	35.0
FH	340.6	18.9	21.7
FVH	4.1	0.2	0.3
BL	88.0	4.9	5.6
BM	185.2	10.3	11.8
BH	124.5	6.9	7.9
BVH	2.6	0.1	0.2
UL	0.0	0.0	0.0
UH	0.0	0.0	0.0
Total	1567.4	87.1	100.0

BUG rating=B1-U0-G1

Luminaire D BDP260 DS50 LED35/- NO

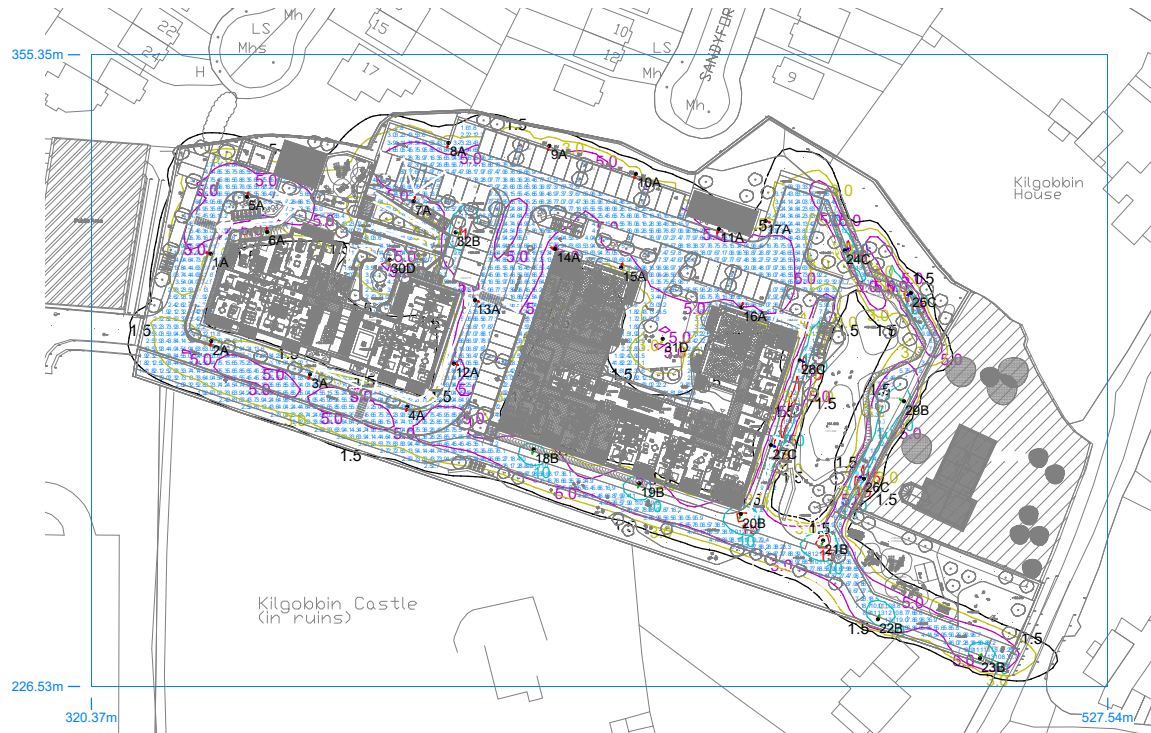


LCS	Lumens	%Lamp	%Lum
FL	102.1	2.9	4.0
FM	483.8	13.8	19.0
FH	669.2	19.1	26.3
FVH	18.1	0.5	0.7
BL	102.1	2.9	4.0
BM	483.8	13.8	19.0
BH	669.2	19.1	26.3
BVH	18.1	0.5	0.7
UL	0.0	0.0	0.0
UH	0.0	0.0	0.0
Total	2546.6	72.8	100.0

BUG rating=B2-U0-G2

Horizontal Illuminance (lux)

Site



Results

Eav	5.58
Emin	1.33
E _{max}	17.30
E _{min} /E _{max}	0.08
E _{min} /E _{av}	0.24
E _{max} /E _{av}	3.10