

Indoor Distribution Test Report

Spectrum Lighting Inc.

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Spectrum Lighting Photometric Lab

Luminaire

BL1317GV 15L 35K EX CGG MB GW
Nom. 13" diam. x 17"H, Balston LED Pendant

Test Number

SP-00639_M-15L

Test Date

The results contained in this report pertain only to this IES file.

Summary of Results

Power

Input Watts	10 W
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Lumen Output

Output Lumens	938
Efficacy	93.78 lm/W

Luminous Dimensions

0° - 180° Size	-0.92
90° - 270° Size	-0.92
Height	0

Spacing Criterion

Two luminaires, plane 0°	1.53
Two luminaires, plane 90°	1.53
Four luminaires	1.6

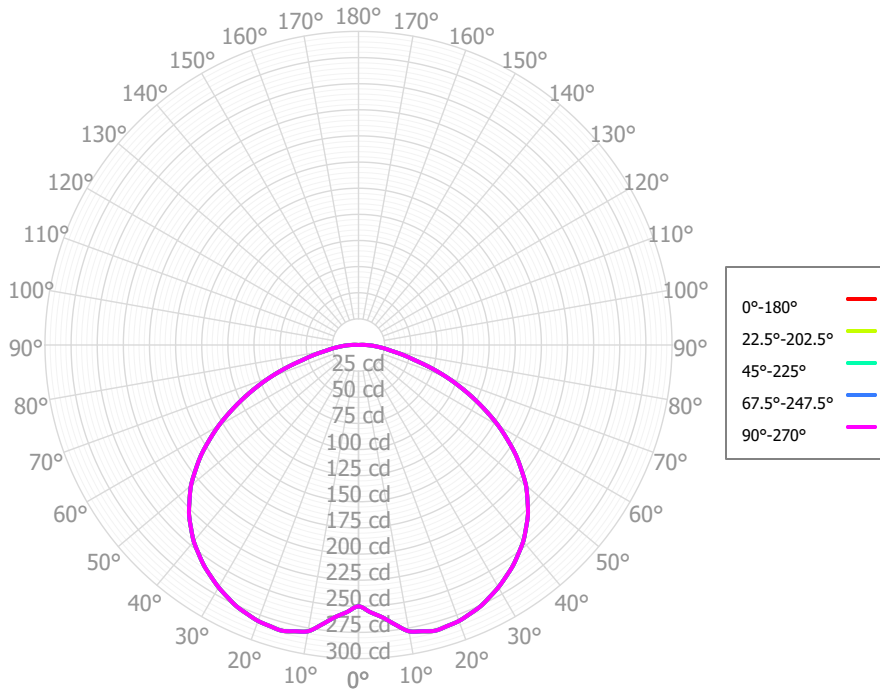
Full Beam Angle

0° - 180°	124°
90° - 270°	124°

IES File Header Contents

Keyword	Value
TEST	SP-00639_M-15L
TESTLAB	VLS-245-981
MANUFAC	Spectrum Lighting
ISSUEDATE	1/31/2018
UPDATE	3/9/2020
LUMCAT	BL1317GV 15L 35K EX CGG MB GW
LUMINAIRE	Nom. 13" diam. x 17"H, Balston LED Pendant
OTHER	Tapered spun aluminum shade, Gloss White finish
OTHER	Nom. 11" diam. clear glass globe, hemisphere-shape diffuser
OTHER	Radial pattern metal guard, Matte black finish
OTHER	121.6 Degree Beam Angle
OTHER	0.2% Uplight, above 90 Degrees
LAMPCAT	N/A
LAMP	N/A, Gen3
OTHER	Total Luminaire Watts is approximate
OTHER	CCT Output Multipliers: 40K x 1.03, 30K x 0.985, 27K x 0.971
OTHER	This report generated by Spectrum Lighting, scaled from 27L

Candela Polar Plot



Zonal Lumen Summary

Zone	Lumens	% Fixture	Zone	Lumens	% Fixture
0.00° - 10.00°	26.78	2.85%	90.00° - 100.00°	1.94	0.21%
10.00° - 20.00°	79.78	8.50%	100.00° - 110.00°	0.00	0.00%
20.00° - 30.00°	127.13	13.54%	100.00° - 120.00°	0.00	0.00%
30.00° - 40.00°	161.15	17.17%	120.00° - 130.00°	0.00	0.00%
40.00° - 50.00°	176.30	18.78%	130.00° - 140.00°	0.00	0.00%
50.00° - 60.00°	163.51	17.42%	140.00° - 150.00°	0.00	0.00%
60.00° - 70.00°	120.73	12.86%	150.00° - 160.00°	0.00	0.00%
70.00° - 80.00°	61.03	6.50%	160.00° - 170.00°	0.00	0.00%
80.00° - 90.00°	20.32	2.16%	170.00° - 180.00°	0.00	0.00%
0.00° - 90.00°	936.72	99.79%	0.00° - 180.00°	938.66	100.00%

Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	250.14	250.14	250.14	250.14	250.14
2.50°	255.86	255.86	255.86	255.86	255.86
5.00°	261.58	261.58	261.58	261.58	261.58
7.50°	269.87	269.87	269.87	269.87	269.87
10.00°	278.17	278.17	278.17	278.17	278.17
12.50°	280.60	280.60	280.60	280.60	280.60
15.00°	283.04	283.04	283.04	283.04	283.04
17.50°	282.04	282.04	282.04	282.04	282.04
20.00°	281.04	281.04	281.04	281.04	281.04
22.50°	278.51	278.51	278.51	278.51	278.51
25.00°	275.98	275.98	275.98	275.98	275.98
27.50°	271.87	271.87	271.87	271.87	271.87
30.00°	267.76	267.76	267.76	267.76	267.76
32.50°	262.73	262.73	262.73	262.73	262.73
35.00°	257.71	257.71	257.71	257.71	257.71
37.50°	251.49	251.49	251.49	251.49	251.49
40.00°	245.27	245.27	245.27	245.27	245.27
42.50°	237.30	237.30	237.30	237.30	237.30
45.00°	229.33	229.33	229.33	229.33	229.33
47.50°	219.28	219.28	219.28	219.28	219.28
50.00°	209.24	209.24	209.24	209.24	209.24
52.50°	196.58	196.58	196.58	196.58	196.58
55.00°	183.92	183.92	183.92	183.92	183.92
57.50°	169.26	169.26	169.26	169.26	169.26
60.00°	154.60	154.60	154.60	154.60	154.60
62.50°	138.43	138.43	138.43	138.43	138.43
65.00°	122.26	122.26	122.26	122.26	122.26
67.50°	105.87	105.87	105.87	105.87	105.87
70.00°	89.47	89.47	89.47	89.47	89.47
72.50°	72.41	72.41	72.41	72.41	72.41
75.00°	55.35	55.35	55.35	55.35	55.35
77.50°	43.50	43.50	43.50	43.50	43.50
80.00°	31.65	31.65	31.65	31.65	31.65
82.50°	24.80	24.80	24.80	24.80	24.80
85.00°	17.95	17.95	17.95	17.95	17.95
87.50°	12.52	12.52	12.52	12.52	12.52
90.00°	7.09	7.09	7.09	7.09	7.09
92.50°	3.54	3.54	3.54	3.54	3.54
95.00°	0.00	0.00	0.00	0.00	0.00
97.50°	0.00	0.00	0.00	0.00	0.00
100.00°	0.00	0.00	0.00	0.00	0.00
102.50°	0.00	0.00	0.00	0.00	0.00
105.00°	0.00	0.00	0.00	0.00	0.00
107.50°	0.00	0.00	0.00	0.00	0.00
110.00°	0.00	0.00	0.00	0.00	0.00
112.50°	0.00	0.00	0.00	0.00	0.00

Coefficients of Utilization – Zonal Cavity Method

Values are lumens delivered to the workplane.

RCR	pfc	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	0%
	pcc	80%	80%	80%	80%	70%	70%	70%	70%	50%	50%	50%	30%	30%	30%	10%	10%	0%
	pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	30%
	0	1,117	1,117	1,117	1,117	1,091	1,091	1,091	1,091	1,042	1,042	1,042	997	997	997	956	956	937
	1	1,018	972	931	894	992	951	913	879	910	879	851	873	848	824	839	818	801
	2	923	844	779	724	898	826	766	715	792	742	698	761	719	681	732	697	681
	3	839	738	660	597	816	723	650	592	695	632	581	668	615	570	644	599	585
	4	766	651	567	502	744	638	560	499	614	546	491	592	533	484	571	520	508
	5	703	579	493	429	683	569	488	427	548	477	422	529	466	417	512	456	446
	6	648	520	434	372	629	511	429	370	493	421	367	477	412	363	462	405	396
	7	599	470	385	326	583	462	382	325	447	375	323	433	368	320	420	362	354
	8	557	427	345	289	542	420	343	288	408	337	286	396	331	284	384	326	320
	9	519	391	312	259	506	385	310	258	374	305	257	364	300	255	354	296	290
	10	486	360	284	234	474	355	282	233	345	278	232	336	274	230	327	270	266

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	8.3 fc	20.7 ft
6.5 ft	5.9 fc	24.5 ft
7.5 ft	4.4 fc	28.2 ft
8.0 ft	3.9 fc	30.1 ft
10.0 ft	2.5 fc	37.7 ft
12.0 ft	1.7 fc	45.2 ft
14.0 ft	1.3 fc	52.7 ft
16.0 ft	1.0 fc	60.2 ft
20.0 ft	0.6 fc	75.3 ft
24.0 ft	0.4 fc	90.4 ft
28.0 ft	0.3 fc	105.4 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	4,050	4,050	4,050
45.00°	5,251	5,251	5,251
55.00°	5,192	5,192	5,192
65.00°	4,684	4,684	4,684
75.00°	3,463	3,463	3,463
85.00°	3,335	3,335	3,335

UGR CIE 190:2010

Ceiling reflectance		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall reflectance		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Plane reflectance		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
2H	2H	17.2	18.9	17.6	19.2	19.6	17.2	18.9	17.6	19.2	19.6
	3H	18.9	20.4	19.3	20.7	21.1	18.9	20.4	19.3	20.7	21.1
	4H	19.4	20.8	19.8	21.2	21.5	19.4	20.8	19.8	21.2	21.5
	6H	19.7	21.1	20.2	21.4	21.8	19.7	21.1	20.2	21.4	21.8
	8H	19.9	21.1	20.3	21.5	21.9	19.9	21.1	20.3	21.5	21.9
	12H	20.0	21.2	20.4	21.6	22.0	20.0	21.2	20.4	21.6	22.0
4H	2H	17.9	19.3	18.3	19.6	20.0	17.9	19.3	18.3	19.6	20.0
	3H	19.7	20.9	20.1	21.3	21.7	19.7	20.9	20.1	21.3	21.7
	4H	20.3	21.4	20.7	21.8	22.2	20.3	21.4	20.7	21.8	22.2
	6H	20.7	21.7	21.2	22.1	22.6	20.7	21.7	21.2	22.1	22.6
	8H	20.9	21.8	21.4	22.2	22.7	20.9	21.8	21.4	22.2	22.7
	12H	21.1	21.9	21.6	22.4	22.8	21.1	21.9	21.6	22.4	22.8
8H	4H	20.5	21.4	21.0	21.9	22.3	20.5	21.4	21.0	21.9	22.3
	6H	21.1	21.8	21.6	22.3	22.8	21.1	21.8	21.6	22.3	22.8
	8H	21.3	22.0	21.8	22.5	23.0	21.3	22.0	21.8	22.5	23.0
	12H	21.6	22.2	22.1	22.7	23.2	21.6	22.2	22.1	22.7	23.2
12H	4H	20.6	21.3	21.0	21.8	22.3	20.6	21.3	21.0	21.8	22.3
	6H	21.1	21.8	21.7	22.3	22.8	21.1	21.8	21.7	22.3	22.8
	8H	21.4	22.0	21.9	22.5	23.1	21.4	22.0	21.9	22.5	23.1

Corrected UGR values based on total output lumens

SHR = 1.0