

Indoor Distribution Test Report

Spectrum Lighting Inc.

994 Jefferson Street
Fall River, MA 02721
+1.508.678.2303

Spectrum Lighting Photometric Lab

Luminaire

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

Test Number

SP-00639_1_M-15L

Test Date

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

Summary of Results

Power

Input Watts	10 W
-------------	------

Lumen Output

Output Lumens	967
Efficacy	96.73 lm/W

Luminous Dimensions

0° - 180° Size	-0.92
90° - 270° Size	-0.92
Height	0.33

Spacing Criterion

Two luminaires, plane 0°	1.35
Two luminaires, plane 90°	1.37
Four luminaires	1.49

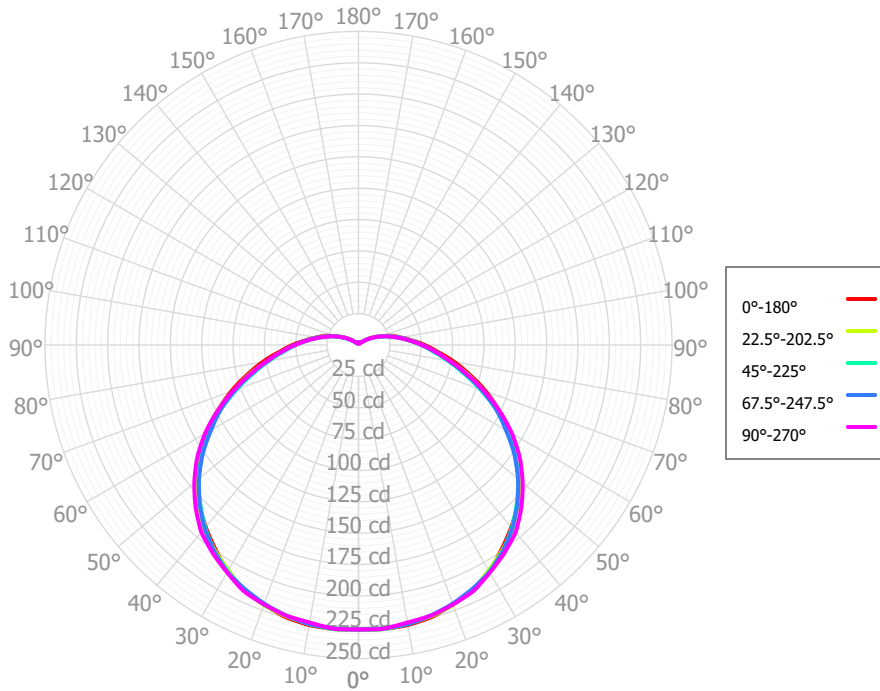
Full Beam Angle

0° - 180°	136°
90° - 270°	136°

IES File Header Contents

Keyword	Value
TEST	SP-00639_1_M-15L
TESTLAB	VLS-245-981
MANUFAC	Spectrum Lighting
ISSUEDATE	1/31/2018
UPDATE	3/9/2020
LUMCAT	BL1317GV 15L 35K EX FGG MB GW
LUMINAIRE	Nom. 13" diam. x 17"H, Balston LED Pendant
OTHER	Tapered spun aluminum shade, Gloss White finish
OTHER	Nom. 11" diam. frosted glass globe, hemisphere-shape diffuser
OTHER	Radial pattern metal guard, Matte black finish
OTHER	136.1 Degree Beam Angle
OTHER	10.3% 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°	22.71	2.35%	90.00° - 100.00°	45.41	4.69%
10.00° - 20.00°	63.18	6.53%	100.00° - 110.00°	28.22	2.92%
20.00° - 30.00°	99.26	10.25%	100.00° - 120.00°	43.29	4.47%
30.00° - 40.00°	125.45	12.96%	120.00° - 130.00°	6.20	0.64%
40.00° - 50.00°	138.72	14.33%	130.00° - 140.00°	1.97	0.20%
50.00° - 60.00°	137.34	14.19%	140.00° - 150.00°	0.99	0.10%
60.00° - 70.00°	120.92	12.49%	150.00° - 160.00°	0.76	0.08%
70.00° - 80.00°	94.04	9.71%	160.00° - 170.00°	0.51	0.05%
80.00° - 90.00°	67.12	6.93%	170.00° - 180.00°	0.20	0.02%
0.00° - 90.00°	868.75	89.74%	0.00° - 180.00°	968.07	100.00%

Candela Distribution

	0.00°	22.50°	45.00°	67.50°	90.00°
0.00°	226.82	226.82	226.82	226.82	226.82
2.50°	227.08	227.07	227.11	226.83	226.96
5.00°	227.34	227.32	227.40	226.85	227.11
7.50°	227.04	226.57	226.63	226.42	225.90
10.00°	226.74	225.81	225.86	225.99	224.69
12.50°	225.69	224.83	224.49	224.72	223.99
15.00°	224.64	223.85	223.12	223.45	223.29
17.50°	222.40	222.25	221.69	221.46	221.75
20.00°	220.17	220.65	220.27	219.48	220.21
22.50°	218.02	218.15	217.84	217.06	218.38
25.00°	215.88	215.65	215.41	214.63	216.54
27.50°	212.27	211.57	211.94	211.87	213.01
30.00°	208.66	207.49	208.47	209.10	209.47
32.50°	203.79	203.67	204.60	204.84	206.04
35.00°	198.92	199.85	200.73	200.57	202.60
37.50°	194.24	195.59	195.46	195.69	198.74
40.00°	189.57	191.32	190.19	190.81	194.88
42.50°	184.68	185.35	184.36	184.96	189.24
45.00°	179.79	179.37	178.54	179.10	183.60
47.50°	173.58	174.37	172.43	172.57	177.24
50.00°	167.37	169.36	166.32	166.04	170.87
52.50°	160.92	162.35	159.37	158.84	163.94
55.00°	154.47	155.34	152.42	151.65	157.02
57.50°	147.30	147.93	144.79	143.68	149.16
60.00°	140.13	140.53	137.17	135.71	141.30
62.50°	131.91	132.32	128.99	128.38	132.61
65.00°	123.68	124.11	120.81	121.05	123.91
67.50°	115.79	114.72	111.99	112.81	114.95
70.00°	107.91	105.33	103.17	104.57	105.99
72.50°	99.87	97.59	94.87	96.30	97.54
75.00°	91.82	89.84	86.57	88.03	89.10
77.50°	84.62	81.68	79.47	80.68	81.57
80.00°	77.41	73.51	72.37	73.32	74.04
82.50°	70.36	67.24	66.00	67.30	67.69
85.00°	63.31	60.96	59.64	61.27	61.34
87.50°	57.98	55.32	54.70	56.03	55.87
90.00°	52.65	49.67	49.76	50.78	50.41
92.50°	47.53	45.64	45.12	46.20	45.62
95.00°	42.42	41.61	40.47	41.61	40.83
97.50°	38.34	37.47	36.69	37.61	36.75
100.00°	34.26	33.34	32.91	33.61	32.66
102.50°	31.16	30.03	29.38	29.92	29.26
105.00°	28.06	26.72	25.84	26.23	25.85
107.50°	24.43	23.78	22.75	23.25	22.94
110.00°	20.79	20.85	19.67	20.27	20.02
112.50°	17.94	18.23	16.91	17.63	17.45

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%	20%	0%
	pcc	80%	80%	80%	80%	70%	70%	70%	70%	50%	50%	50%	30%	30%	30%	10%	10%	10%	0%
	pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	30%
	0	1,129	1,129	1,129	1,129	1,091	1,091	1,091	1,091	1,020	1,020	1,020	956	956	956	897	897	897	869
	1	1,003	945	894	848	965	913	867	824	853	815	780	797	766	738	746	722	699	697
	2	901	809	733	669	865	782	712	653	730	672	622	682	635	593	639	600	565	578
	3	815	702	614	544	781	678	597	532	634	566	510	594	536	488	556	508	467	490
	4	742	616	524	453	711	596	510	444	558	485	427	523	461	411	491	438	394	422
	5	680	547	453	385	651	530	443	378	497	422	364	467	402	351	439	383	338	369
	6	626	489	398	332	600	475	389	326	447	372	316	421	355	305	396	339	294	327
	7	579	442	353	290	555	429	345	286	405	331	277	382	316	268	360	303	259	293
	8	538	401	315	256	516	390	309	253	369	297	245	349	285	238	330	273	230	264
	9	501	367	285	229	482	357	279	226	339	268	219	321	258	213	304	248	207	240
	10	469	338	259	206	452	329	254	203	312	245	198	297	236	192	282	227	187	220

Cone of Light

Mtg Height	Light Level	Beam Diameter
5.5 ft	7.5 fc	27.2 ft
6.5 ft	5.4 fc	32.2 ft
7.5 ft	4.0 fc	37.1 ft
8.0 ft	3.5 fc	39.6 ft
10.0 ft	2.3 fc	49.5 ft
12.0 ft	1.6 fc	59.4 ft
14.0 ft	1.2 fc	69.3 ft
16.0 ft	0.9 fc	79.2 ft
20.0 ft	0.6 fc	99.0 ft
24.0 ft	0.4 fc	118.8 ft
28.0 ft	0.3 fc	138.7 ft

Average Luminaire Luminance [cd/m²]

	0.00°	45.00°	90.00°
0.00°	3,673	3,673	3,673
45.00°	2,826	2,807	2,886
55.00°	2,639	2,604	2,683
65.00°	2,394	2,338	2,399
75.00°	2,124	2,003	2,061
85.00°	1,891	1,781	1,832

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	20.2	21.7	20.7	22.2	22.8	20.0	21.5	20.5	22.1	22.6
	3H	-	-	-	-	-	-	-	-	-	-
	4H	-	-	-	-	-	-	-	-	-	-
	6H	-	-	-	-	-	-	-	-	-	-
	8H	-	-	-	-	-	-	-	-	-	-
	12H	-	-	-	-	-	-	-	-	-	-
4H	2H	-	-	-	-	-	-	-	-	-	-
	3H	-	-	-	-	-	-	-	-	-	-
	4H	-	-	-	-	-	-	-	-	-	-
	6H	-	-	-	-	-	-	-	-	-	-
	8H	-	-	-	-	-	-	-	-	-	-
	12H	-	-	-	-	-	-	-	-	-	-
8H	4H	-	-	-	-	-	-	-	-	-	-
	6H	-	-	-	-	-	-	-	-	-	-
	8H	-	-	-	-	-	-	-	-	-	-
	12H	-	-	-	-	-	-	-	-	-	-
12H	4H	-	-	-	-	-	-	-	-	-	-
	6H	-	-	-	-	-	-	-	-	-	-
	8H	-	-	-	-	-	-	-	-	-	-

Corrected UGR values based on total output lumens

SHR = 1.0