

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00713 ~ BP1616GV-15L35K-EX-TF2-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00713_M-15L

[TESTLAB] Spectrum Lighting Photometric lab, VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 9/17/2018

[UPDATE] 10/25/2018

[LUMCAT] BP1616GV-15L-35K-EX-TF2-MWI

[LUMINAIRE] Nom. 16" diam reflector x 16.2" H Decorative Bueno Pendant

[OTHER] Spun aluminum, matte white interior finish

[OTHER] Regressed 4" domed frosted diffuser

[OTHER] Beam Angle: 53.9 degrees

[LAMP] N/A, Gen3

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] CCT Multipliers: 27K x 0.971, 30K x 0.985, 40K x 1.03

[OTHER] This report generated by Spectrum Lighting, scaled from 55L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	770
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.33 ft (Diameter)
Luminous Width (90-270)	1.33 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00713 ~ BP1616GV-15L35K-EX-TF2-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1380	1380	1380
55	1209	1209	1209
65	959	959	959
75	689	689	689
85	196	196	196

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	458.030	458.030	458.030	458.030	458.030	458.030	458.030	458.030	458.030	458.030
2.5	458.359	458.359	458.359	458.359	458.359	458.359	458.359	458.359	458.359	458.359
5.0	458.772	458.772	458.772	458.772	458.772	458.772	458.772	458.772	458.772	458.772
7.5	461.276	461.276	461.276	461.276	461.276	461.276	461.276	461.276	461.276	461.276
10.0	464.122	464.122	464.122	464.122	464.122	464.122	464.122	464.122	464.122	464.122
12.5	470.103	470.103	470.103	470.103	470.103	470.103	470.103	470.103	470.103	470.103
15.0	476.337	476.337	476.337	476.337	476.337	476.337	476.337	476.337	476.337	476.337
17.5	484.408	484.408	484.408	484.408	484.408	484.408	484.408	484.408	484.408	484.408
20.0	491.695	491.695	491.695	491.695	491.695	491.695	491.695	491.695	491.695	491.695
22.5	485.071	485.071	485.071	485.071	485.071	485.071	485.071	485.071	485.071	485.071
25.0	470.903	470.903	470.903	470.903	470.903	470.903	470.903	470.903	470.903	470.903
27.5	401.694	401.694	401.694	401.694	401.694	401.694	401.694	401.694	401.694	401.694
30.0	330.792	330.792	330.792	330.792	330.792	330.792	330.792	330.792	330.792	330.792
32.5	252.517	252.517	252.517	252.517	252.517	252.517	252.517	252.517	252.517	252.517
35.0	187.586	187.586	187.586	187.586	187.586	187.586	187.586	187.586	187.586	187.586
37.5	162.780	162.780	162.780	162.780	162.780	162.780	162.780	162.780	162.780	162.780
40.0	143.079	143.079	143.079	143.079	143.079	143.079	143.079	143.079	143.079	143.079
42.5	134.451	134.451	134.451	134.451	134.451	134.451	134.451	134.451	134.451	134.451
45.0	126.097	126.097	126.097	126.097	126.097	126.097	126.097	126.097	126.097	126.097
47.5	118.189	118.189	118.189	118.189	118.189	118.189	118.189	118.189	118.189	118.189
50.0	109.422	109.422	109.422	109.422	109.422	109.422	109.422	109.422	109.422	109.422
52.5	99.580	99.580	99.580	99.580	99.580	99.580	99.580	99.580	99.580	99.580
55.0	89.601	89.601	89.601	89.601	89.601	89.601	89.601	89.601	89.601	89.601
57.5	79.491	79.491	79.491	79.491	79.491	79.491	79.491	79.491	79.491	79.491
60.0	69.968	69.968	69.968	69.968	69.968	69.968	69.968	69.968	69.968	69.968
62.5	60.877	60.877	60.877	60.877	60.877	60.877	60.877	60.877	60.877	60.877
65.0	52.348	52.348	52.348	52.348	52.348	52.348	52.348	52.348	52.348	52.348
67.5	44.134	44.134	44.134	44.134	44.134	44.134	44.134	44.134	44.134	44.134
70.0	36.711	36.711	36.711	36.711	36.711	36.711	36.711	36.711	36.711	36.711
72.5	29.558	29.558	29.558	29.558	29.558	29.558	29.558	29.558	29.558	29.558
75.0	23.030	23.030	23.030	23.030	23.030	23.030	23.030	23.030	23.030	23.030
77.5	16.964	16.964	16.964	16.964	16.964	16.964	16.964	16.964	16.964	16.964
80.0	11.416	11.416	11.416	11.416	11.416	11.416	11.416	11.416	11.416	11.416
82.5	6.263	6.263	6.263	6.263	6.263	6.263	6.263	6.263	6.263	6.263
85.0	2.212	2.212	2.212	2.212	2.212	2.212	2.212	2.212	2.212	2.212
87.5	0.376	0.376	0.376	0.376	0.376	0.376	0.376	0.376	0.376	0.376
90.0	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	458.030	458.030	458.030	458.030	458.030	458.030	458.030
2.5	458.359	458.359	458.359	458.359	458.359	458.359	458.359
5.0	458.772	458.772	458.772	458.772	458.772	458.772	458.772
7.5	461.276	461.276	461.276	461.276	461.276	461.276	461.276
10.0	464.122	464.122	464.122	464.122	464.122	464.122	464.122
12.5	470.103	470.103	470.103	470.103	470.103	470.103	470.103
15.0	476.337	476.337	476.337	476.337	476.337	476.337	476.337
17.5	484.408	484.408	484.408	484.408	484.408	484.408	484.408
20.0	491.695	491.695	491.695	491.695	491.695	491.695	491.695
22.5	485.071	485.071	485.071	485.071	485.071	485.071	485.071
25.0	470.903	470.903	470.903	470.903	470.903	470.903	470.903
27.5	401.694	401.694	401.694	401.694	401.694	401.694	401.694
30.0	330.792	330.792	330.792	330.792	330.792	330.792	330.792
32.5	252.517	252.517	252.517	252.517	252.517	252.517	252.517
35.0	187.586	187.586	187.586	187.586	187.586	187.586	187.586
37.5	162.780	162.780	162.780	162.780	162.780	162.780	162.780
40.0	143.079	143.079	143.079	143.079	143.079	143.079	143.079
42.5	134.451	134.451	134.451	134.451	134.451	134.451	134.451
45.0	126.097	126.097	126.097	126.097	126.097	126.097	126.097
47.5	118.189	118.189	118.189	118.189	118.189	118.189	118.189
50.0	109.422	109.422	109.422	109.422	109.422	109.422	109.422
52.5	99.580	99.580	99.580	99.580	99.580	99.580	99.580
55.0	89.601	89.601	89.601	89.601	89.601	89.601	89.601
57.5	79.491	79.491	79.491	79.491	79.491	79.491	79.491
60.0	69.968	69.968	69.968	69.968	69.968	69.968	69.968
62.5	60.877	60.877	60.877	60.877	60.877	60.877	60.877
65.0	52.348	52.348	52.348	52.348	52.348	52.348	52.348

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CANDELA TABULATION - (Cont.)

67.5	44.134	44.134	44.134	44.134	44.134	44.134	44.134
70.0	36.711	36.711	36.711	36.711	36.711	36.711	36.711
72.5	29.558	29.558	29.558	29.558	29.558	29.558	29.558
75.0	23.030	23.030	23.030	23.030	23.030	23.030	23.030
77.5	16.964	16.964	16.964	16.964	16.964	16.964	16.964
80.0	11.416	11.416	11.416	11.416	11.416	11.416	11.416
82.5	6.263	6.263	6.263	6.263	6.263	6.263	6.263
85.0	2.212	2.212	2.212	2.212	2.212	2.212	2.212
87.5	0.376	0.376	0.376	0.376	0.376	0.376	0.376
90.0	0.230	0.230	0.230	0.230	0.230	0.230	0.230
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	179.66	N.A.	23.30
0-30	382.15	N.A.	49.60
0-40	511.77	N.A.	66.50
0-60	689.23	N.A.	89.50
0-80	765.97	N.A.	99.50
0-90	769.95	N.A.	100.00
10-90	725.97	N.A.	94.30
20-40	332.12	N.A.	43.10
20-50	429.54	N.A.	55.80
40-70	229.53	N.A.	29.80
60-80	76.74	N.A.	10.00
70-80	24.66	N.A.	3.20
80-90	3.99	N.A.	0.50
90-110	0.03	N.A.	0.00
90-120	0.03	N.A.	0.00
90-130	0.03	N.A.	0.00
90-150	0.03	N.A.	0.00
90-180	0.03	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	769.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	43.99
10-20	135.67
20-30	202.49
30-40	129.63
40-50	97.42
50-60	80.04
60-70	52.07
70-80	24.66
80-90	3.99
90-100	0.03
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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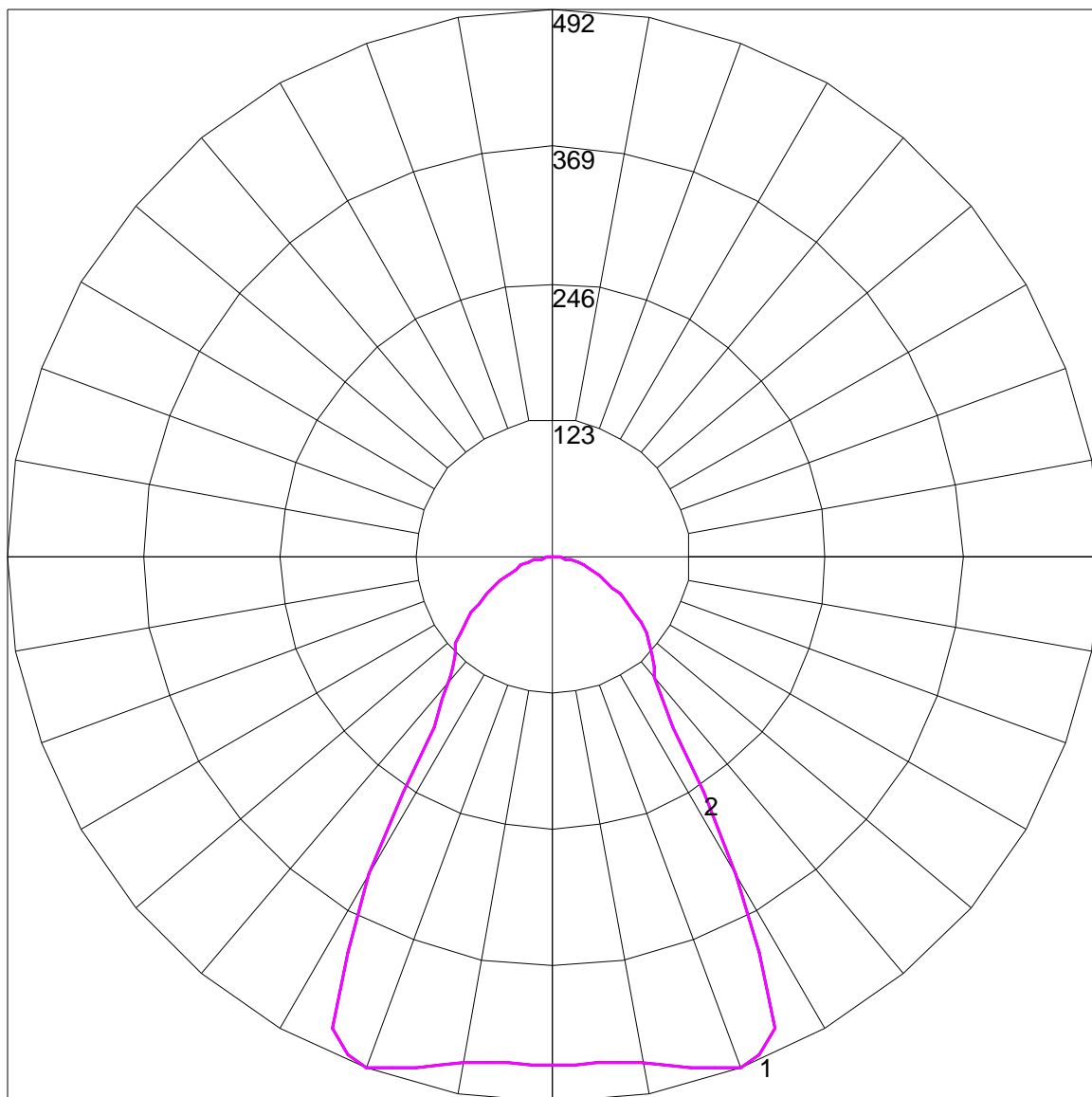
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	74	80	76	72	78	74	71	69
4	89	79	72	67	87	78	71	66	76	70	65	74	69	65	72	67	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

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POLAR GRAPH



Maximum Candela = 491.695 Located At Horizontal Angle = 0, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)