

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00713 ~ BP1616GV-55L35K-EX-TF2-MWI.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00713
 [TESTLAB] Spectrum Lighting Photometric lab, VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 9/17/2018
 [UPDATE] 10/25/2018
 [LUMCAT] BP1616GV-55L-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] This report generated by Spectrum Lighting
 [_CCTMULT] 27K x 0.971, 30K x 0.985, 40K x 1.03
 [_LAMPMULT] 15L x 0.265, 27L x 0.463, 37L x 0.68
 [_CRI] 85+

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2906
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	39
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-55L35K-EX-TF2-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5209	5209	5209
55	4563	4563	4563
65	3618	3618	3618
75	2599	2599	2599
85	741	741	741

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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	1728.416	1728.416	1728.416	1728.416	1728.416	1728.416	1728.416	1728.416	1728.416	1728.416
2.5	1729.657	1729.657	1729.657	1729.657	1729.657	1729.657	1729.657	1729.657	1729.657	1729.657
5.0	1731.215	1731.215	1731.215	1731.215	1731.215	1731.215	1731.215	1731.215	1731.215	1731.215
7.5	1740.663	1740.663	1740.663	1740.663	1740.663	1740.663	1740.663	1740.663	1740.663	1740.663
10.0	1751.406	1751.406	1751.406	1751.406	1751.406	1751.406	1751.406	1751.406	1751.406	1751.406
12.5	1773.974	1773.974	1773.974	1773.974	1773.974	1773.974	1773.974	1773.974	1773.974	1773.974
15.0	1797.497	1797.497	1797.497	1797.497	1797.497	1797.497	1797.497	1797.497	1797.497	1797.497
17.5	1827.956	1827.956	1827.956	1827.956	1827.956	1827.956	1827.956	1827.956	1827.956	1827.956
20.0	1855.454	1855.454	1855.454	1855.454	1855.454	1855.454	1855.454	1855.454	1855.454	1855.454
22.5	1830.458	1830.458	1830.458	1830.458	1830.458	1830.458	1830.458	1830.458	1830.458	1830.458
25.0	1776.991	1776.991	1776.991	1776.991	1776.991	1776.991	1776.991	1776.991	1776.991	1776.991
27.5	1515.825	1515.825	1515.825	1515.825	1515.825	1515.825	1515.825	1515.825	1515.825	1515.825
30.0	1248.270	1248.270	1248.270	1248.270	1248.270	1248.270	1248.270	1248.270	1248.270	1248.270
32.5	952.896	952.896	952.896	952.896	952.896	952.896	952.896	952.896	952.896	952.896
35.0	707.871	707.871	707.871	707.871	707.871	707.871	707.871	707.871	707.871	707.871
37.5	614.264	614.264	614.264	614.264	614.264	614.264	614.264	614.264	614.264	614.264
40.0	539.920	539.920	539.920	539.920	539.920	539.920	539.920	539.920	539.920	539.920
42.5	507.363	507.363	507.363	507.363	507.363	507.363	507.363	507.363	507.363	507.363
45.0	475.839	475.839	475.839	475.839	475.839	475.839	475.839	475.839	475.839	475.839
47.5	445.998	445.998	445.998	445.998	445.998	445.998	445.998	445.998	445.998	445.998
50.0	412.911	412.911	412.911	412.911	412.911	412.911	412.911	412.911	412.911	412.911
52.5	375.773	375.773	375.773	375.773	375.773	375.773	375.773	375.773	375.773	375.773
55.0	338.117	338.117	338.117	338.117	338.117	338.117	338.117	338.117	338.117	338.117
57.5	299.967	299.967	299.967	299.967	299.967	299.967	299.967	299.967	299.967	299.967
60.0	264.029	264.029	264.029	264.029	264.029	264.029	264.029	264.029	264.029	264.029
62.5	229.725	229.725	229.725	229.725	229.725	229.725	229.725	229.725	229.725	229.725
65.0	197.538	197.538	197.538	197.538	197.538	197.538	197.538	197.538	197.538	197.538
67.5	166.544	166.544	166.544	166.544	166.544	166.544	166.544	166.544	166.544	166.544
70.0	138.531	138.531	138.531	138.531	138.531	138.531	138.531	138.531	138.531	138.531
72.5	111.541	111.541	111.541	111.541	111.541	111.541	111.541	111.541	111.541	111.541
75.0	86.907	86.907	86.907	86.907	86.907	86.907	86.907	86.907	86.907	86.907
77.5	64.015	64.015	64.015	64.015	64.015	64.015	64.015	64.015	64.015	64.015
80.0	43.079	43.079	43.079	43.079	43.079	43.079	43.079	43.079	43.079	43.079
82.5	23.636	23.636	23.636	23.636	23.636	23.636	23.636	23.636	23.636	23.636
85.0	8.347	8.347	8.347	8.347	8.347	8.347	8.347	8.347	8.347	8.347
87.5	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419
90.0	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870	0.870
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.
Angles**

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	1728.416	1728.416	1728.416	1728.416	1728.416	1728.416	1728.416
2.5	1729.657	1729.657	1729.657	1729.657	1729.657	1729.657	1729.657
5.0	1731.215	1731.215	1731.215	1731.215	1731.215	1731.215	1731.215
7.5	1740.663	1740.663	1740.663	1740.663	1740.663	1740.663	1740.663
10.0	1751.406	1751.406	1751.406	1751.406	1751.406	1751.406	1751.406
12.5	1773.974	1773.974	1773.974	1773.974	1773.974	1773.974	1773.974
15.0	1797.497	1797.497	1797.497	1797.497	1797.497	1797.497	1797.497
17.5	1827.956	1827.956	1827.956	1827.956	1827.956	1827.956	1827.956
20.0	1855.454	1855.454	1855.454	1855.454	1855.454	1855.454	1855.454
22.5	1830.458	1830.458	1830.458	1830.458	1830.458	1830.458	1830.458
25.0	1776.991	1776.991	1776.991	1776.991	1776.991	1776.991	1776.991
27.5	1515.825	1515.825	1515.825	1515.825	1515.825	1515.825	1515.825
30.0	1248.270	1248.270	1248.270	1248.270	1248.270	1248.270	1248.270
32.5	952.896	952.896	952.896	952.896	952.896	952.896	952.896
35.0	707.871	707.871	707.871	707.871	707.871	707.871	707.871
37.5	614.264	614.264	614.264	614.264	614.264	614.264	614.264
40.0	539.920	539.920	539.920	539.920	539.920	539.920	539.920
42.5	507.363	507.363	507.363	507.363	507.363	507.363	507.363
45.0	475.839	475.839	475.839	475.839	475.839	475.839	475.839
47.5	445.998	445.998	445.998	445.998	445.998	445.998	445.998
50.0	412.911	412.911	412.911	412.911	412.911	412.911	412.911
52.5	375.773	375.773	375.773	375.773	375.773	375.773	375.773
55.0	338.117	338.117	338.117	338.117	338.117	338.117	338.117
57.5	299.967	299.967	299.967	299.967	299.967	299.967	299.967
60.0	264.029	264.029	264.029	264.029	264.029	264.029	264.029
62.5	229.725	229.725	229.725	229.725	229.725	229.725	229.725
65.0	197.538	197.538	197.538	197.538	197.538	197.538	197.538

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CANDELA TABULATION - (Cont.)

67.5	166.544	166.544	166.544	166.544	166.544	166.544	166.544
70.0	138.531	138.531	138.531	138.531	138.531	138.531	138.531
72.5	111.541	111.541	111.541	111.541	111.541	111.541	111.541
75.0	86.907	86.907	86.907	86.907	86.907	86.907	86.907
77.5	64.015	64.015	64.015	64.015	64.015	64.015	64.015
80.0	43.079	43.079	43.079	43.079	43.079	43.079	43.079
82.5	23.636	23.636	23.636	23.636	23.636	23.636	23.636
85.0	8.347	8.347	8.347	8.347	8.347	8.347	8.347
87.5	1.419	1.419	1.419	1.419	1.419	1.419	1.419
90.0	0.870	0.870	0.870	0.870	0.870	0.870	0.870
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	677.95	N.A.	23.30
0-30	1442.06	N.A.	49.60
0-40	1931.22	N.A.	66.50
0-60	2600.87	N.A.	89.50
0-80	2890.44	N.A.	99.50
0-90	2905.49	N.A.	100.00
10-90	2739.5	N.A.	94.30
20-40	1253.27	N.A.	43.10
20-50	1620.89	N.A.	55.80
40-70	866.16	N.A.	29.80
60-80	289.57	N.A.	10.00
70-80	93.06	N.A.	3.20
80-90	15.05	N.A.	0.50
90-110	0.12	N.A.	0.00
90-120	0.12	N.A.	0.00
90-130	0.12	N.A.	0.00
90-150	0.12	N.A.	0.00
90-180	0.12	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2905.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	165.99
10-20	511.97
20-30	764.10
30-40	489.16
40-50	367.62
50-60	302.03
60-70	196.51
70-80	93.06
80-90	15.05
90-100	0.12
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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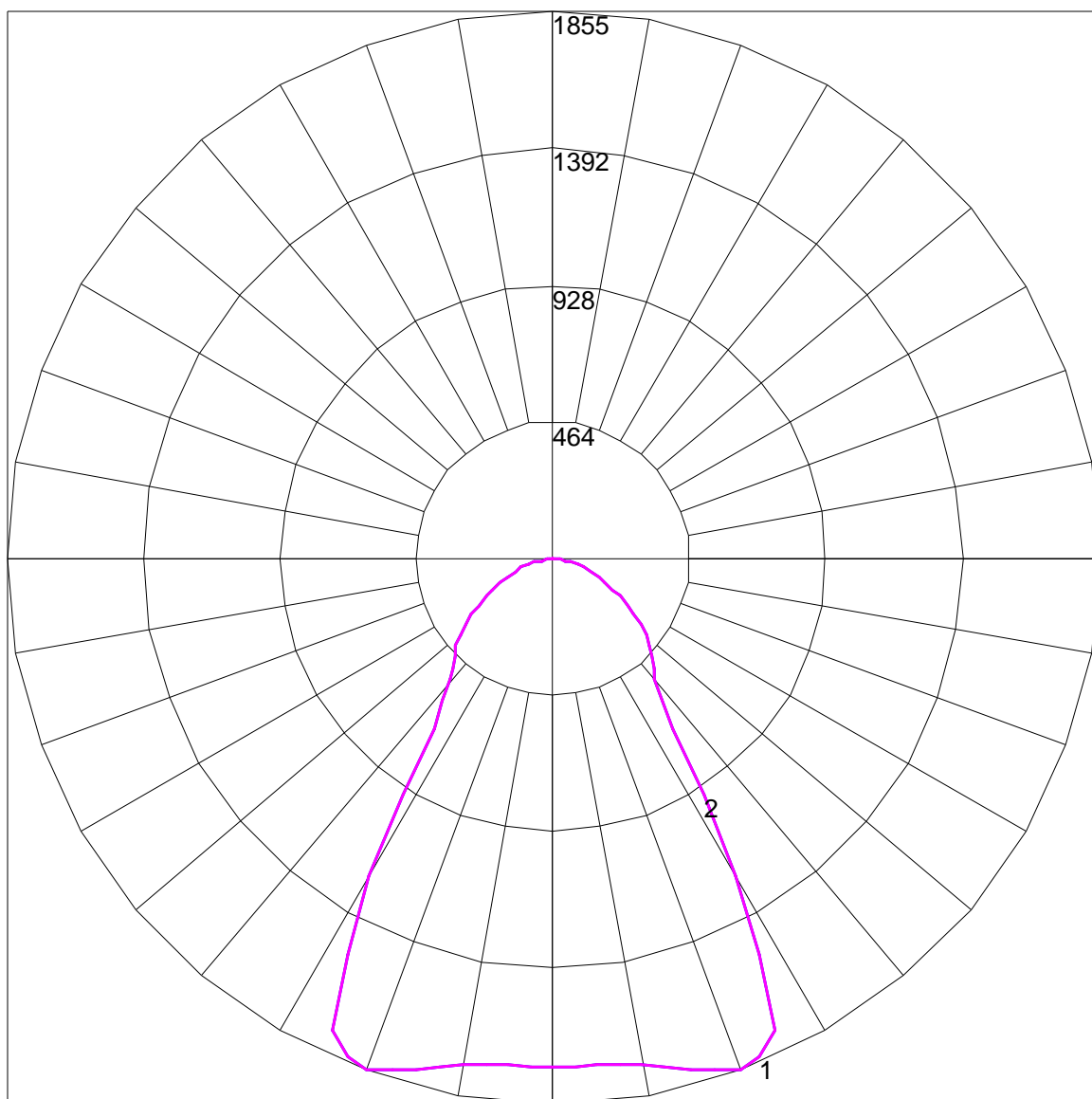
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	83	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	52	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00713 ~ BP1616GV-55L35K-EX-TF2-MWI.IES

POLAR GRAPH



Maximum Candela = 1855.454 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)