

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00713 ~ BP1616GV-37L35K-EX-TF2-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00713\_M-37L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 9/17/2018

[UPDATE] 10/25/2018

[LUMCAT] BP1616GV-37L-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	1976
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	26
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-37L35K-EX-TF2-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3542	3542	3542
55	3103	3103	3103
65	2460	2460	2460
75	1767	1767	1767
85	504	504	504

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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>
<b>0.0</b>	1175.323	1175.323	1175.323	1175.323	1175.323	1175.323	1175.323	1175.323	1175.323	1175.323
<b>2.5</b>	1176.167	1176.167	1176.167	1176.167	1176.167	1176.167	1176.167	1176.167	1176.167	1176.167
<b>5.0</b>	1177.226	1177.226	1177.226	1177.226	1177.226	1177.226	1177.226	1177.226	1177.226	1177.226
<b>7.5</b>	1183.651	1183.651	1183.651	1183.651	1183.651	1183.651	1183.651	1183.651	1183.651	1183.651
<b>10.0</b>	1190.956	1190.956	1190.956	1190.956	1190.956	1190.956	1190.956	1190.956	1190.956	1190.956
<b>12.5</b>	1206.302	1206.302	1206.302	1206.302	1206.302	1206.302	1206.302	1206.302	1206.302	1206.302
<b>15.0</b>	1222.298	1222.298	1222.298	1222.298	1222.298	1222.298	1222.298	1222.298	1222.298	1222.298
<b>17.5</b>	1243.010	1243.010	1243.010	1243.010	1243.010	1243.010	1243.010	1243.010	1243.010	1243.010
<b>20.0</b>	1261.709	1261.709	1261.709	1261.709	1261.709	1261.709	1261.709	1261.709	1261.709	1261.709
<b>22.5</b>	1244.711	1244.711	1244.711	1244.711	1244.711	1244.711	1244.711	1244.711	1244.711	1244.711
<b>25.0</b>	1208.354	1208.354	1208.354	1208.354	1208.354	1208.354	1208.354	1208.354	1208.354	1208.354
<b>27.5</b>	1030.761	1030.761	1030.761	1030.761	1030.761	1030.761	1030.761	1030.761	1030.761	1030.761
<b>30.0</b>	848.824	848.824	848.824	848.824	848.824	848.824	848.824	848.824	848.824	848.824
<b>32.5</b>	647.969	647.969	647.969	647.969	647.969	647.969	647.969	647.969	647.969	647.969
<b>35.0</b>	481.352	481.352	481.352	481.352	481.352	481.352	481.352	481.352	481.352	481.352
<b>37.5</b>	417.700	417.700	417.700	417.700	417.700	417.700	417.700	417.700	417.700	417.700
<b>40.0</b>	367.146	367.146	367.146	367.146	367.146	367.146	367.146	367.146	367.146	367.146
<b>42.5</b>	345.007	345.007	345.007	345.007	345.007	345.007	345.007	345.007	345.007	345.007
<b>45.0</b>	323.571	323.571	323.571	323.571	323.571	323.571	323.571	323.571	323.571	323.571
<b>47.5</b>	303.279	303.279	303.279	303.279	303.279	303.279	303.279	303.279	303.279	303.279
<b>50.0</b>	280.779	280.779	280.779	280.779	280.779	280.779	280.779	280.779	280.779	280.779
<b>52.5</b>	255.526	255.526	255.526	255.526	255.526	255.526	255.526	255.526	255.526	255.526
<b>55.0</b>	229.920	229.920	229.920	229.920	229.920	229.920	229.920	229.920	229.920	229.920
<b>57.5</b>	203.978	203.978	203.978	203.978	203.978	203.978	203.978	203.978	203.978	203.978
<b>60.0</b>	179.540	179.540	179.540	179.540	179.540	179.540	179.540	179.540	179.540	179.540
<b>62.5</b>	156.213	156.213	156.213	156.213	156.213	156.213	156.213	156.213	156.213	156.213
<b>65.0</b>	134.326	134.326	134.326	134.326	134.326	134.326	134.326	134.326	134.326	134.326
<b>67.5</b>	113.250	113.250	113.250	113.250	113.250	113.250	113.250	113.250	113.250	113.250
<b>70.0</b>	94.201	94.201	94.201	94.201	94.201	94.201	94.201	94.201	94.201	94.201
<b>72.5</b>	75.848	75.848	75.848	75.848	75.848	75.848	75.848	75.848	75.848	75.848
<b>75.0</b>	59.097	59.097	59.097	59.097	59.097	59.097	59.097	59.097	59.097	59.097
<b>77.5</b>	43.530	43.530	43.530	43.530	43.530	43.530	43.530	43.530	43.530	43.530
<b>80.0</b>	29.294	29.294	29.294	29.294	29.294	29.294	29.294	29.294	29.294	29.294
<b>82.5</b>	16.072	16.072	16.072	16.072	16.072	16.072	16.072	16.072	16.072	16.072
<b>85.0</b>	5.676	5.676	5.676	5.676	5.676	5.676	5.676	5.676	5.676	5.676
<b>87.5</b>	0.965	0.965	0.965	0.965	0.965	0.965	0.965	0.965	0.965	0.965
<b>90.0</b>	0.592	0.592	0.592	0.592	0.592	0.592	0.592	0.592	0.592	0.592
<b>92.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>97.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>102.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>107.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>112.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>117.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>122.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125.0</b>	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	1175.323	1175.323	1175.323	1175.323	1175.323	1175.323	1175.323
2.5	1176.167	1176.167	1176.167	1176.167	1176.167	1176.167	1176.167
5.0	1177.226	1177.226	1177.226	1177.226	1177.226	1177.226	1177.226
7.5	1183.651	1183.651	1183.651	1183.651	1183.651	1183.651	1183.651
10.0	1190.956	1190.956	1190.956	1190.956	1190.956	1190.956	1190.956
12.5	1206.302	1206.302	1206.302	1206.302	1206.302	1206.302	1206.302
15.0	1222.298	1222.298	1222.298	1222.298	1222.298	1222.298	1222.298
17.5	1243.010	1243.010	1243.010	1243.010	1243.010	1243.010	1243.010
20.0	1261.709	1261.709	1261.709	1261.709	1261.709	1261.709	1261.709
22.5	1244.711	1244.711	1244.711	1244.711	1244.711	1244.711	1244.711
25.0	1208.354	1208.354	1208.354	1208.354	1208.354	1208.354	1208.354
27.5	1030.761	1030.761	1030.761	1030.761	1030.761	1030.761	1030.761
30.0	848.824	848.824	848.824	848.824	848.824	848.824	848.824
32.5	647.969	647.969	647.969	647.969	647.969	647.969	647.969
35.0	481.352	481.352	481.352	481.352	481.352	481.352	481.352
37.5	417.700	417.700	417.700	417.700	417.700	417.700	417.700
40.0	367.146	367.146	367.146	367.146	367.146	367.146	367.146
42.5	345.007	345.007	345.007	345.007	345.007	345.007	345.007
45.0	323.571	323.571	323.571	323.571	323.571	323.571	323.571
47.5	303.279	303.279	303.279	303.279	303.279	303.279	303.279
50.0	280.779	280.779	280.779	280.779	280.779	280.779	280.779
52.5	255.526	255.526	255.526	255.526	255.526	255.526	255.526
55.0	229.920	229.920	229.920	229.920	229.920	229.920	229.920
57.5	203.978	203.978	203.978	203.978	203.978	203.978	203.978
60.0	179.540	179.540	179.540	179.540	179.540	179.540	179.540
62.5	156.213	156.213	156.213	156.213	156.213	156.213	156.213
65.0	134.326	134.326	134.326	134.326	134.326	134.326	134.326

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**CANDELA TABULATION - (Cont.)**

67.5	113.250	113.250	113.250	113.250	113.250	113.250	113.250
70.0	94.201	94.201	94.201	94.201	94.201	94.201	94.201
72.5	75.848	75.848	75.848	75.848	75.848	75.848	75.848
75.0	59.097	59.097	59.097	59.097	59.097	59.097	59.097
77.5	43.530	43.530	43.530	43.530	43.530	43.530	43.530
80.0	29.294	29.294	29.294	29.294	29.294	29.294	29.294
82.5	16.072	16.072	16.072	16.072	16.072	16.072	16.072
85.0	5.676	5.676	5.676	5.676	5.676	5.676	5.676
87.5	0.965	0.965	0.965	0.965	0.965	0.965	0.965
90.0	0.592	0.592	0.592	0.592	0.592	0.592	0.592
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	461.01	N.A.	23.30
0-30	980.60	N.A.	49.60
0-40	1313.23	N.A.	66.50
0-60	1768.6	N.A.	89.50
0-80	1965.5	N.A.	99.50
0-90	1975.73	N.A.	100.00
10-90	1862.86	N.A.	94.30
20-40	852.22	N.A.	43.10
20-50	1102.21	N.A.	55.80
40-70	588.99	N.A.	29.80
60-80	196.91	N.A.	10.00
70-80	63.28	N.A.	3.20
80-90	10.23	N.A.	0.50
90-110	0.08	N.A.	0.00
90-120	0.08	N.A.	0.00
90-130	0.08	N.A.	0.00
90-150	0.08	N.A.	0.00
90-180	0.08	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1975.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	112.87
10-20	348.14
20-30	519.59
30-40	332.63
40-50	249.99
50-60	205.38
60-70	133.63
70-80	63.28
80-90	10.23
90-100	0.08
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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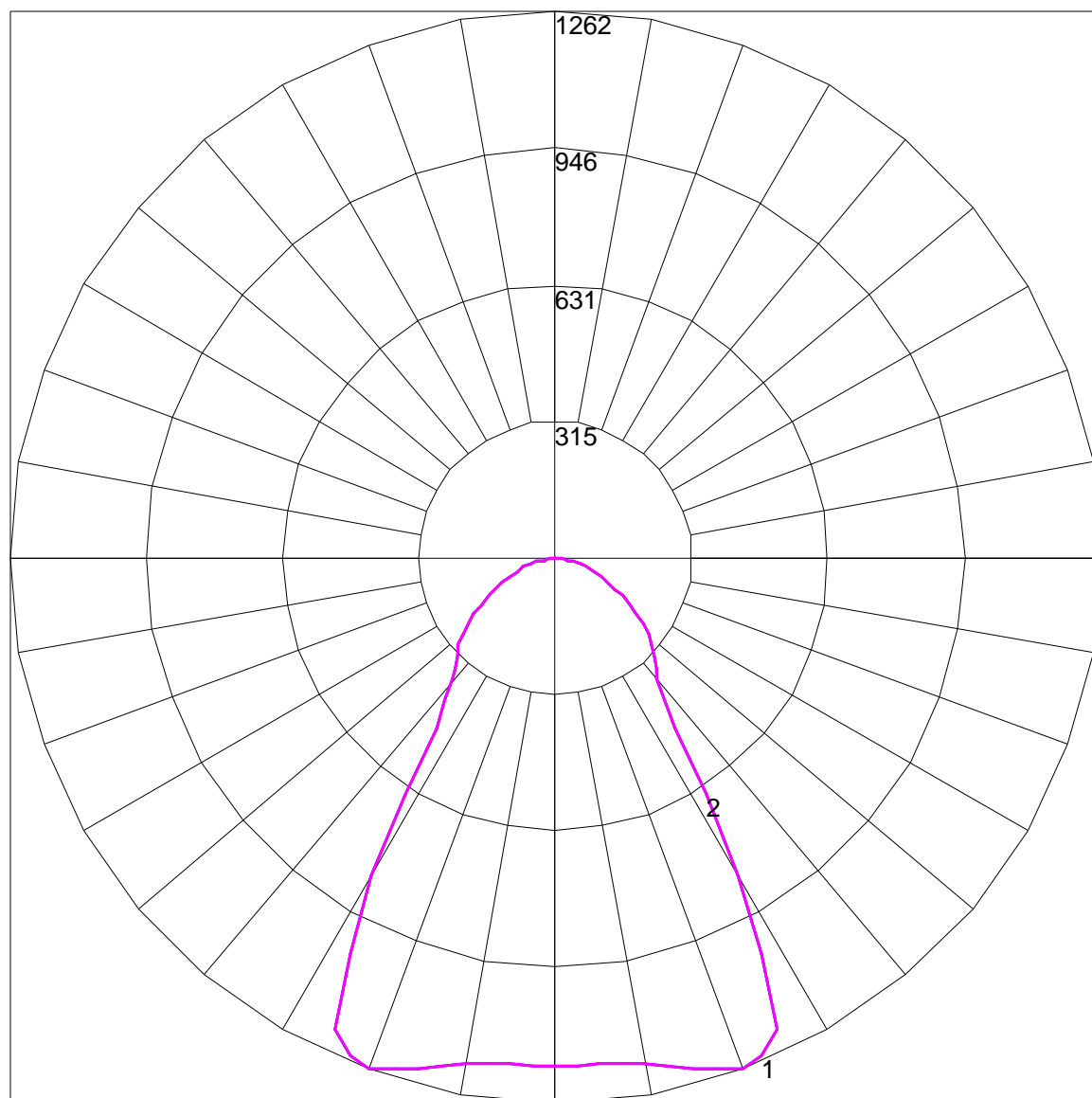
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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-37L35K-EX-TF2-MWI.IES

POLAR GRAPH



Maximum Candela = 1261.709 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)