

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00701_1 ~ TA1610GV-27L35K-EX-FJ1-MB.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] SP-00701_1

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 7/18/2018

[UPDATE] 7/25/2018

[LUMCAT] TA1610GV-27L-35K-EX-FJ1-MB

[LUMINAIRE] Nom. 16.5" diam acrylic shade x 10" H decorative Tech Tier luminaire

[OTHER] 3" x 6.5" Frosted Glass Jar

[OTHER] Remote driver in canopy

[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 0.573

[_CRI]85+

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1125
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.80
Spacing Criterion (90-270)	0.80
Spacing Criterion (Diagonal)	1.06
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.38 ft (Diameter)
Luminous Width (90-270)	1.38 ft (Diameter)
Luminous Height	0.33 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00701_1 ~ TA1610GV-27L35K-EX-FJ1-MB.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1375	1375	1375
55	1236	1236	1236
65	1008	1008	1008
75	936	936	936
85	1498	1498	1498

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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	388.989	388.989	388.989	388.989	388.989	388.989	388.989	388.989	388.989	388.989
2.5	388.734	388.734	388.734	388.734	388.734	388.734	388.734	388.734	388.734	388.734
5.0	377.884	377.884	377.884	377.884	377.884	377.884	377.884	377.884	377.884	377.884
7.5	366.529	366.529	366.529	366.529	366.529	366.529	366.529	366.529	366.529	366.529
10.0	348.813	348.813	348.813	348.813	348.813	348.813	348.813	348.813	348.813	348.813
12.5	329.959	329.959	329.959	329.959	329.959	329.959	329.959	329.959	329.959	329.959
15.0	302.924	302.924	302.924	302.924	302.924	302.924	302.924	302.924	302.924	302.924
17.5	276.728	276.728	276.728	276.728	276.728	276.728	276.728	276.728	276.728	276.728
20.0	254.609	254.609	254.609	254.609	254.609	254.609	254.609	254.609	254.609	254.609
22.5	233.868	233.868	233.868	233.868	233.868	233.868	233.868	233.868	233.868	233.868
25.0	218.000	218.000	218.000	218.000	218.000	218.000	218.000	218.000	218.000	218.000
27.5	204.225	204.225	204.225	204.225	204.225	204.225	204.225	204.225	204.225	204.225
30.0	196.151	196.151	196.151	196.151	196.151	196.151	196.151	196.151	196.151	196.151
32.5	189.997	189.997	189.997	189.997	189.997	189.997	189.997	189.997	189.997	189.997
35.0	187.973	187.973	187.973	187.973	187.973	187.973	187.973	187.973	187.973	187.973
37.5	185.924	185.924	185.924	185.924	185.924	185.924	185.924	185.924	185.924	185.924
40.0	183.832	183.832	183.832	183.832	183.832	183.832	183.832	183.832	183.832	183.832
42.5	180.883	180.883	180.883	180.883	180.883	180.883	180.883	180.883	180.883	180.883
45.0	176.729	176.729	176.729	176.729	176.729	176.729	176.729	176.729	176.729	176.729
47.5	170.612	170.612	170.612	170.612	170.612	170.612	170.612	170.612	170.612	170.612
50.0	162.227	162.227	162.227	162.227	162.227	162.227	162.227	162.227	162.227	162.227
52.5	152.616	152.616	152.616	152.616	152.616	152.616	152.616	152.616	152.616	152.616
55.0	141.849	141.849	141.849	141.849	141.849	141.849	141.849	141.849	141.849	141.849
57.5	131.114	131.114	131.114	131.114	131.114	131.114	131.114	131.114	131.114	131.114
60.0	120.404	120.404	120.404	120.404	120.404	120.404	120.404	120.404	120.404	120.404
62.5	109.443	109.443	109.443	109.443	109.443	109.443	109.443	109.443	109.443	109.443
65.0	98.321	98.321	98.321	98.321	98.321	98.321	98.321	98.321	98.321	98.321
67.5	87.652	87.652	87.652	87.652	87.652	87.652	87.652	87.652	87.652	87.652
70.0	77.215	77.215	77.215	77.215	77.215	77.215	77.215	77.215	77.215	77.215
72.5	73.419	73.419	73.419	73.419	73.419	73.419	73.419	73.419	73.419	73.419
75.0	72.353	72.353	72.353	72.353	72.353	72.353	72.353	72.353	72.353	72.353
77.5	75.243	75.243	75.243	75.243	75.243	75.243	75.243	75.243	75.243	75.243
80.0	79.405	79.405	79.405	79.405	79.405	79.405	79.405	79.405	79.405	79.405
82.5	80.964	80.964	80.964	80.964	80.964	80.964	80.964	80.964	80.964	80.964
85.0	81.902	81.902	81.902	81.902	81.902	81.902	81.902	81.902	81.902	81.902
87.5	79.437	79.437	79.437	79.437	79.437	79.437	79.437	79.437	79.437	79.437
90.0	76.398	76.398	76.398	76.398	76.398	76.398	76.398	76.398	76.398	76.398
92.5	75.004	75.004	75.004	75.004	75.004	75.004	75.004	75.004	75.004	75.004
95.0	73.785	73.785	73.785	73.785	73.785	73.785	73.785	73.785	73.785	73.785
97.5	73.781	73.781	73.781	73.781	73.781	73.781	73.781	73.781	73.781	73.781
100.0	73.834	73.834	73.834	73.834	73.834	73.834	73.834	73.834	73.834	73.834
102.5	72.794	72.794	72.794	72.794	72.794	72.794	72.794	72.794	72.794	72.794
105.0	71.706	71.706	71.706	71.706	71.706	71.706	71.706	71.706	71.706	71.706
107.5	69.731	69.731	69.731	69.731	69.731	69.731	69.731	69.731	69.731	69.731
110.0	67.557	67.557	67.557	67.557	67.557	67.557	67.557	67.557	67.557	67.557
112.5	63.593	63.593	63.593	63.593	63.593	63.593	63.593	63.593	63.593	63.593
115.0	59.473	59.473	59.473	59.473	59.473	59.473	59.473	59.473	59.473	59.473
117.5	54.463	54.463	54.463	54.463	54.463	54.463	54.463	54.463	54.463	54.463
120.0	49.164	49.164	49.164	49.164	49.164	49.164	49.164	49.164	49.164	49.164
122.5	42.696	42.696	42.696	42.696	42.696	42.696	42.696	42.696	42.696	42.696
125.0	36.223	36.223	36.223	36.223	36.223	36.223	36.223	36.223	36.223	36.223

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CANDELA TABULATION - (Cont.)

127.5	29.735	29.735	29.735	29.735	29.735	29.735	29.735	29.735	29.735	29.735
130.0	23.176	23.176	23.176	23.176	23.176	23.176	23.176	23.176	23.176	23.176
132.5	16.448	16.448	16.448	16.448	16.448	16.448	16.448	16.448	16.448	16.448
135.0	10.668	10.668	10.668	10.668	10.668	10.668	10.668	10.668	10.668	10.668
137.5	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688
140.0	3.818	3.818	3.818	3.818	3.818	3.818	3.818	3.818	3.818	3.818
142.5	2.663	2.663	2.663	2.663	2.663	2.663	2.663	2.663	2.663	2.663
145.0	1.829	1.829	1.829	1.829	1.829	1.829	1.829	1.829	1.829	1.829
147.5	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401
150.0	1.170	1.170	1.170	1.170	1.170	1.170	1.170	1.170	1.170	1.170
152.5	1.141	1.141	1.141	1.141	1.141	1.141	1.141	1.141	1.141	1.141
155.0	1.138	1.138	1.138	1.138	1.138	1.138	1.138	1.138	1.138	1.138
157.5	1.158	1.158	1.158	1.158	1.158	1.158	1.158	1.158	1.158	1.158
160.0	1.113	1.113	1.113	1.113	1.113	1.113	1.113	1.113	1.113	1.113
162.5	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041
165.0	1.026	1.026	1.026	1.026	1.026	1.026	1.026	1.026	1.026	1.026
167.5	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059
170.0	1.124	1.124	1.124	1.124	1.124	1.124	1.124	1.124	1.124	1.124
172.5	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085
175.0	1.038	1.038	1.038	1.038	1.038	1.038	1.038	1.038	1.038	1.038
177.5	1.069	1.069	1.069	1.069	1.069	1.069	1.069	1.069	1.069	1.069
180.0	0.987	0.987	0.987	0.987	0.987	0.987	0.987	0.987	0.987	0.987

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	388.989	388.989	388.989	388.989	388.989	388.989	388.989
2.5	388.734	388.734	388.734	388.734	388.734	388.734	388.734
5.0	377.884	377.884	377.884	377.884	377.884	377.884	377.884
7.5	366.529	366.529	366.529	366.529	366.529	366.529	366.529
10.0	348.813	348.813	348.813	348.813	348.813	348.813	348.813
12.5	329.959	329.959	329.959	329.959	329.959	329.959	329.959
15.0	302.924	302.924	302.924	302.924	302.924	302.924	302.924
17.5	276.728	276.728	276.728	276.728	276.728	276.728	276.728
20.0	254.609	254.609	254.609	254.609	254.609	254.609	254.609
22.5	233.868	233.868	233.868	233.868	233.868	233.868	233.868
25.0	218.000	218.000	218.000	218.000	218.000	218.000	218.000
27.5	204.225	204.225	204.225	204.225	204.225	204.225	204.225
30.0	196.151	196.151	196.151	196.151	196.151	196.151	196.151
32.5	189.997	189.997	189.997	189.997	189.997	189.997	189.997
35.0	187.973	187.973	187.973	187.973	187.973	187.973	187.973
37.5	185.924	185.924	185.924	185.924	185.924	185.924	185.924
40.0	183.832	183.832	183.832	183.832	183.832	183.832	183.832
42.5	180.883	180.883	180.883	180.883	180.883	180.883	180.883
45.0	176.729	176.729	176.729	176.729	176.729	176.729	176.729
47.5	170.612	170.612	170.612	170.612	170.612	170.612	170.612
50.0	162.227	162.227	162.227	162.227	162.227	162.227	162.227
52.5	152.616	152.616	152.616	152.616	152.616	152.616	152.616
55.0	141.849	141.849	141.849	141.849	141.849	141.849	141.849
57.5	131.114	131.114	131.114	131.114	131.114	131.114	131.114
60.0	120.404	120.404	120.404	120.404	120.404	120.404	120.404
62.5	109.443	109.443	109.443	109.443	109.443	109.443	109.443
65.0	98.321	98.321	98.321	98.321	98.321	98.321	98.321

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CANDELA TABULATION - (Cont.)

67.5	87.652	87.652	87.652	87.652	87.652	87.652	87.652
70.0	77.215	77.215	77.215	77.215	77.215	77.215	77.215
72.5	73.419	73.419	73.419	73.419	73.419	73.419	73.419
75.0	72.353	72.353	72.353	72.353	72.353	72.353	72.353
77.5	75.243	75.243	75.243	75.243	75.243	75.243	75.243
80.0	79.405	79.405	79.405	79.405	79.405	79.405	79.405
82.5	80.964	80.964	80.964	80.964	80.964	80.964	80.964
85.0	81.902	81.902	81.902	81.902	81.902	81.902	81.902
87.5	79.437	79.437	79.437	79.437	79.437	79.437	79.437
90.0	76.398	76.398	76.398	76.398	76.398	76.398	76.398
92.5	75.004	75.004	75.004	75.004	75.004	75.004	75.004
95.0	73.785	73.785	73.785	73.785	73.785	73.785	73.785
97.5	73.781	73.781	73.781	73.781	73.781	73.781	73.781
100.0	73.834	73.834	73.834	73.834	73.834	73.834	73.834
102.5	72.794	72.794	72.794	72.794	72.794	72.794	72.794
105.0	71.706	71.706	71.706	71.706	71.706	71.706	71.706
107.5	69.731	69.731	69.731	69.731	69.731	69.731	69.731
110.0	67.557	67.557	67.557	67.557	67.557	67.557	67.557
112.5	63.593	63.593	63.593	63.593	63.593	63.593	63.593
115.0	59.473	59.473	59.473	59.473	59.473	59.473	59.473
117.5	54.463	54.463	54.463	54.463	54.463	54.463	54.463
120.0	49.164	49.164	49.164	49.164	49.164	49.164	49.164
122.5	42.696	42.696	42.696	42.696	42.696	42.696	42.696
125.0	36.223	36.223	36.223	36.223	36.223	36.223	36.223
127.5	29.735	29.735	29.735	29.735	29.735	29.735	29.735
130.0	23.176	23.176	23.176	23.176	23.176	23.176	23.176
132.5	16.448	16.448	16.448	16.448	16.448	16.448	16.448
135.0	10.668	10.668	10.668	10.668	10.668	10.668	10.668
137.5	6.688	6.688	6.688	6.688	6.688	6.688	6.688
140.0	3.818	3.818	3.818	3.818	3.818	3.818	3.818
142.5	2.663	2.663	2.663	2.663	2.663	2.663	2.663
145.0	1.829	1.829	1.829	1.829	1.829	1.829	1.829
147.5	1.401	1.401	1.401	1.401	1.401	1.401	1.401
150.0	1.170	1.170	1.170	1.170	1.170	1.170	1.170
152.5	1.141	1.141	1.141	1.141	1.141	1.141	1.141
155.0	1.138	1.138	1.138	1.138	1.138	1.138	1.138
157.5	1.158	1.158	1.158	1.158	1.158	1.158	1.158
160.0	1.113	1.113	1.113	1.113	1.113	1.113	1.113
162.5	1.041	1.041	1.041	1.041	1.041	1.041	1.041
165.0	1.026	1.026	1.026	1.026	1.026	1.026	1.026
167.5	1.059	1.059	1.059	1.059	1.059	1.059	1.059
170.0	1.124	1.124	1.124	1.124	1.124	1.124	1.124
172.5	1.085	1.085	1.085	1.085	1.085	1.085	1.085
175.0	1.038	1.038	1.038	1.038	1.038	1.038	1.038
177.5	1.069	1.069	1.069	1.069	1.069	1.069	1.069
180.0	0.987	0.987	0.987	0.987	0.987	0.987	0.987

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	119.63	N.A.	10.60
0-30	220.84	N.A.	19.60
0-40	339.10	N.A.	30.10
0-60	601.44	N.A.	53.50
0-80	778.17	N.A.	69.20
0-90	865.51	N.A.	76.90
10-90	830.28	N.A.	73.80
20-40	219.47	N.A.	19.50
20-50	355.02	N.A.	31.60
40-70	359.89	N.A.	32.00
60-80	176.73	N.A.	15.70
70-80	79.17	N.A.	7.00
80-90	87.34	N.A.	7.80
90-110	156.58	N.A.	13.90
90-120	215.24	N.A.	19.10
90-130	247.94	N.A.	22.00
90-150	258.65	N.A.	23.00
90-180	259.59	N.A.	23.10
110-180	103.00	N.A.	9.20
0-180	1125.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	35.22
10-20	84.41
20-30	101.20
30-40	118.27
40-50	135.55
50-60	126.79
60-70	97.55
70-80	79.17
80-90	87.34
90-100	81.20
100-110	75.38
110-120	58.65
120-130	32.71
130-140	9.36
140-150	1.35
150-160	0.53
160-170	0.30
170-180	0.10

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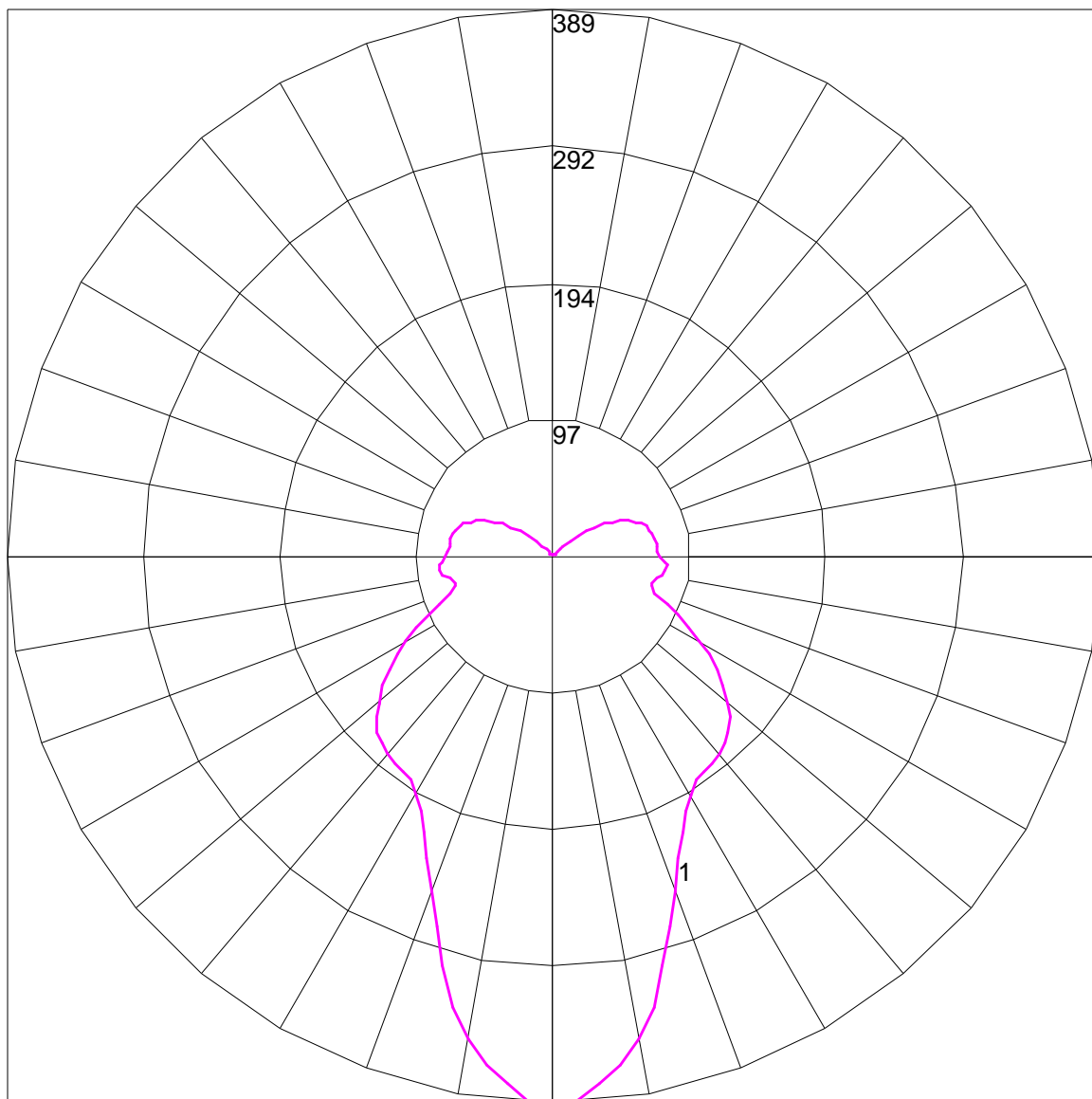
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77
1	101	95	90	86	96	91	86	82	82	79	75	74	71	69	67	65	63	59
2	91	82	75	69	87	78	72	66	71	66	61	64	60	56	58	55	52	48
3	83	72	64	57	79	69	61	55	62	56	51	57	51	47	51	47	44	40
4	76	64	55	48	72	61	53	46	56	49	43	50	45	40	46	41	37	34
5	70	57	48	41	66	54	46	40	50	43	37	45	40	35	41	36	33	30
6	65	51	42	36	61	49	41	35	45	38	33	41	35	31	38	33	29	26
7	60	47	38	32	57	45	37	31	41	34	29	38	32	27	34	29	26	23
8	56	42	34	28	53	41	33	28	38	31	26	35	29	25	32	27	23	21
9	52	39	31	25	50	37	30	25	35	28	23	32	26	22	29	25	21	19
10	49	36	28	23	47	35	27	23	32	26	21	30	24	20	27	23	19	17

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POLAR GRAPH



Maximum Candela = 388.989 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)