

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00698\_1 ~ TT1610GV-27L35K-EX-FJ1-MB.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00698\_1  
[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 7/9/2018  
[UPDATE] 7/25/2018  
[LUMCAT] TT1610GV-27L-35K-EX-FJ1-MB  
[LUMINAIRE] Nom. 16.5" diam 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	598
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	33
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.78
Spacing Criterion (90-270)	0.78
Spacing Criterion (Diagonal)	0.80
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-00698\_1 ~ TT1610GV-27L35K-EX-FJ1-MB.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	513	513	513
55	414	414	414
65	344	344	344
75	427	427	427
85	1146	1146	1146

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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	375.903	375.903	375.903	375.903	375.903	375.903	375.903	375.903	375.903	375.903
2.5	375.550	375.550	375.550	375.550	375.550	375.550	375.550	375.550	375.550	375.550
5.0	364.976	364.976	364.976	364.976	364.976	364.976	364.976	364.976	364.976	364.976
7.5	353.818	353.818	353.818	353.818	353.818	353.818	353.818	353.818	353.818	353.818
10.0	337.238	337.238	337.238	337.238	337.238	337.238	337.238	337.238	337.238	337.238
12.5	319.336	319.336	319.336	319.336	319.336	319.336	319.336	319.336	319.336	319.336
15.0	294.573	294.573	294.573	294.573	294.573	294.573	294.573	294.573	294.573	294.573
17.5	269.147	269.147	269.147	269.147	269.147	269.147	269.147	269.147	269.147	269.147
20.0	241.466	241.466	241.466	241.466	241.466	241.466	241.466	241.466	241.466	241.466
22.5	213.877	213.877	213.877	213.877	213.877	213.877	213.877	213.877	213.877	213.877
25.0	186.508	186.508	186.508	186.508	186.508	186.508	186.508	186.508	186.508	186.508
27.5	159.907	159.907	159.907	159.907	159.907	159.907	159.907	159.907	159.907	159.907
30.0	134.687	134.687	134.687	134.687	134.687	134.687	134.687	134.687	134.687	134.687
32.5	112.759	112.759	112.759	112.759	112.759	112.759	112.759	112.759	112.759	112.759
35.0	95.327	95.327	95.327	95.327	95.327	95.327	95.327	95.327	95.327	95.327
37.5	82.256	82.256	82.256	82.256	82.256	82.256	82.256	82.256	82.256	82.256
40.0	73.770	73.770	73.770	73.770	73.770	73.770	73.770	73.770	73.770	73.770
42.5	68.558	68.558	68.558	68.558	68.558	68.558	68.558	68.558	68.558	68.558
45.0	66.003	66.003	66.003	66.003	66.003	66.003	66.003	66.003	66.003	66.003
47.5	62.121	62.121	62.121	62.121	62.121	62.121	62.121	62.121	62.121	62.121
50.0	57.417	57.417	57.417	57.417	57.417	57.417	57.417	57.417	57.417	57.417
52.5	52.512	52.512	52.512	52.512	52.512	52.512	52.512	52.512	52.512	52.512
55.0	47.513	47.513	47.513	47.513	47.513	47.513	47.513	47.513	47.513	47.513
57.5	43.260	43.260	43.260	43.260	43.260	43.260	43.260	43.260	43.260	43.260
60.0	39.260	39.260	39.260	39.260	39.260	39.260	39.260	39.260	39.260	39.260
62.5	36.281	36.281	36.281	36.281	36.281	36.281	36.281	36.281	36.281	36.281
65.0	33.536	33.536	33.536	33.536	33.536	33.536	33.536	33.536	33.536	33.536
67.5	30.897	30.897	30.897	30.897	30.897	30.897	30.897	30.897	30.897	30.897
70.0	28.273	28.273	28.273	28.273	28.273	28.273	28.273	28.273	28.273	28.273
72.5	30.455	30.455	30.455	30.455	30.455	30.455	30.455	30.455	30.455	30.455
75.0	32.979	32.979	32.979	32.979	32.979	32.979	32.979	32.979	32.979	32.979
77.5	42.407	42.407	42.407	42.407	42.407	42.407	42.407	42.407	42.407	42.407
80.0	51.600	51.600	51.600	51.600	51.600	51.600	51.600	51.600	51.600	51.600
82.5	57.741	57.741	57.741	57.741	57.741	57.741	57.741	57.741	57.741	57.741
85.0	62.675	62.675	62.675	62.675	62.675	62.675	62.675	62.675	62.675	62.675
87.5	60.028	60.028	60.028	60.028	60.028	60.028	60.028	60.028	60.028	60.028
90.0	57.172	57.172	57.172	57.172	57.172	57.172	57.172	57.172	57.172	57.172
92.5	53.486	53.486	53.486	53.486	53.486	53.486	53.486	53.486	53.486	53.486
95.0	49.882	49.882	49.882	49.882	49.882	49.882	49.882	49.882	49.882	49.882
97.5	46.507	46.507	46.507	46.507	46.507	46.507	46.507	46.507	46.507	46.507
100.0	42.713	42.713	42.713	42.713	42.713	42.713	42.713	42.713	42.713	42.713
102.5	38.076	38.076	38.076	38.076	38.076	38.076	38.076	38.076	38.076	38.076
105.0	33.317	33.317	33.317	33.317	33.317	33.317	33.317	33.317	33.317	33.317
107.5	28.371	28.371	28.371	28.371	28.371	28.371	28.371	28.371	28.371	28.371
110.0	22.482	22.482	22.482	22.482	22.482	22.482	22.482	22.482	22.482	22.482
112.5	15.488	15.488	15.488	15.488	15.488	15.488	15.488	15.488	15.488	15.488
115.0	10.436	10.436	10.436	10.436	10.436	10.436	10.436	10.436	10.436	10.436
117.5	7.124	7.124	7.124	7.124	7.124	7.124	7.124	7.124	7.124	7.124
120.0	4.972	4.972	4.972	4.972	4.972	4.972	4.972	4.972	4.972	4.972
122.5	3.621	3.621	3.621	3.621	3.621	3.621	3.621	3.621	3.621	3.621
125.0	2.699	2.699	2.699	2.699	2.699	2.699	2.699	2.699	2.699	2.699

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**CANDELA TABULATION - (Cont.)**

127.5	2.003	2.003	2.003	2.003	2.003	2.003	2.003	2.003	2.003	2.003
130.0	1.655	1.655	1.655	1.655	1.655	1.655	1.655	1.655	1.655	1.655
132.5	1.442	1.442	1.442	1.442	1.442	1.442	1.442	1.442	1.442	1.442
135.0	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220	1.220
137.5	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996	0.996
140.0	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020	1.020
142.5	1.088	1.088	1.088	1.088	1.088	1.088	1.088	1.088	1.088	1.088
145.0	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115
147.5	1.139	1.139	1.139	1.139	1.139	1.139	1.139	1.139	1.139	1.139
150.0	1.075	1.075	1.075	1.075	1.075	1.075	1.075	1.075	1.075	1.075
152.5	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018	1.018
155.0	1.117	1.117	1.117	1.117	1.117	1.117	1.117	1.117	1.117	1.117
157.5	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183	1.183
160.0	1.071	1.071	1.071	1.071	1.071	1.071	1.071	1.071	1.071	1.071
162.5	1.057	1.057	1.057	1.057	1.057	1.057	1.057	1.057	1.057	1.057
165.0	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177
167.5	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110
170.0	1.062	1.062	1.062	1.062	1.062	1.062	1.062	1.062	1.062	1.062
172.5	1.075	1.075	1.075	1.075	1.075	1.075	1.075	1.075	1.075	1.075
175.0	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074	1.074
177.5	1.093	1.093	1.093	1.093	1.093	1.093	1.093	1.093	1.093	1.093
180.0	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.966	0.966

**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	375.903	375.903	375.903	375.903	375.903	375.903	375.903
2.5	375.550	375.550	375.550	375.550	375.550	375.550	375.550
5.0	364.976	364.976	364.976	364.976	364.976	364.976	364.976
7.5	353.818	353.818	353.818	353.818	353.818	353.818	353.818
10.0	337.238	337.238	337.238	337.238	337.238	337.238	337.238
12.5	319.336	319.336	319.336	319.336	319.336	319.336	319.336
15.0	294.573	294.573	294.573	294.573	294.573	294.573	294.573
17.5	269.147	269.147	269.147	269.147	269.147	269.147	269.147
20.0	241.466	241.466	241.466	241.466	241.466	241.466	241.466
22.5	213.877	213.877	213.877	213.877	213.877	213.877	213.877
25.0	186.508	186.508	186.508	186.508	186.508	186.508	186.508
27.5	159.907	159.907	159.907	159.907	159.907	159.907	159.907
30.0	134.687	134.687	134.687	134.687	134.687	134.687	134.687
32.5	112.759	112.759	112.759	112.759	112.759	112.759	112.759
35.0	95.327	95.327	95.327	95.327	95.327	95.327	95.327
37.5	82.256	82.256	82.256	82.256	82.256	82.256	82.256
40.0	73.770	73.770	73.770	73.770	73.770	73.770	73.770
42.5	68.558	68.558	68.558	68.558	68.558	68.558	68.558
45.0	66.003	66.003	66.003	66.003	66.003	66.003	66.003
47.5	62.121	62.121	62.121	62.121	62.121	62.121	62.121
50.0	57.417	57.417	57.417	57.417	57.417	57.417	57.417
52.5	52.512	52.512	52.512	52.512	52.512	52.512	52.512
55.0	47.513	47.513	47.513	47.513	47.513	47.513	47.513
57.5	43.260	43.260	43.260	43.260	43.260	43.260	43.260
60.0	39.260	39.260	39.260	39.260	39.260	39.260	39.260
62.5	36.281	36.281	36.281	36.281	36.281	36.281	36.281
65.0	33.536	33.536	33.536	33.536	33.536	33.536	33.536

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**CANDELA TABULATION - (Cont.)**

67.5	30.897	30.897	30.897	30.897	30.897	30.897	30.897
70.0	28.273	28.273	28.273	28.273	28.273	28.273	28.273
72.5	30.455	30.455	30.455	30.455	30.455	30.455	30.455
75.0	32.979	32.979	32.979	32.979	32.979	32.979	32.979
77.5	42.407	42.407	42.407	42.407	42.407	42.407	42.407
80.0	51.600	51.600	51.600	51.600	51.600	51.600	51.600
82.5	57.741	57.741	57.741	57.741	57.741	57.741	57.741
85.0	62.675	62.675	62.675	62.675	62.675	62.675	62.675
87.5	60.028	60.028	60.028	60.028	60.028	60.028	60.028
90.0	57.172	57.172	57.172	57.172	57.172	57.172	57.172
92.5	53.486	53.486	53.486	53.486	53.486	53.486	53.486
95.0	49.882	49.882	49.882	49.882	49.882	49.882	49.882
97.5	46.507	46.507	46.507	46.507	46.507	46.507	46.507
100.0	42.713	42.713	42.713	42.713	42.713	42.713	42.713
102.5	38.076	38.076	38.076	38.076	38.076	38.076	38.076
105.0	33.317	33.317	33.317	33.317	33.317	33.317	33.317
107.5	28.371	28.371	28.371	28.371	28.371	28.371	28.371
110.0	22.482	22.482	22.482	22.482	22.482	22.482	22.482
112.5	15.488	15.488	15.488	15.488	15.488	15.488	15.488
115.0	10.436	10.436	10.436	10.436	10.436	10.436	10.436
117.5	7.124	7.124	7.124	7.124	7.124	7.124	7.124
120.0	4.972	4.972	4.972	4.972	4.972	4.972	4.972
122.5	3.621	3.621	3.621	3.621	3.621	3.621	3.621
125.0	2.699	2.699	2.699	2.699	2.699	2.699	2.699
127.5	2.003	2.003	2.003	2.003	2.003	2.003	2.003
130.0	1.655	1.655	1.655	1.655	1.655	1.655	1.655
132.5	1.442	1.442	1.442	1.442	1.442	1.442	1.442
135.0	1.220	1.220	1.220	1.220	1.220	1.220	1.220
137.5	0.996	0.996	0.996	0.996	0.996	0.996	0.996
140.0	1.020	1.020	1.020	1.020	1.020	1.020	1.020
142.5	1.088	1.088	1.088	1.088	1.088	1.088	1.088
145.0	1.115	1.115	1.115	1.115	1.115	1.115	1.115
147.5	1.139	1.139	1.139	1.139	1.139	1.139	1.139
150.0	1.075	1.075	1.075	1.075	1.075	1.075	1.075
152.5	1.018	1.018	1.018	1.018	1.018	1.018	1.018
155.0	1.117	1.117	1.117	1.117	1.117	1.117	1.117
157.5	1.183	1.183	1.183	1.183	1.183	1.183	1.183
160.0	1.071	1.071	1.071	1.071	1.071	1.071	1.071
162.5	1.057	1.057	1.057	1.057	1.057	1.057	1.057
165.0	1.177	1.177	1.177	1.177	1.177	1.177	1.177
167.5	1.110	1.110	1.110	1.110	1.110	1.110	1.110
170.0	1.062	1.062	1.062	1.062	1.062	1.062	1.062
172.5	1.075	1.075	1.075	1.075	1.075	1.075	1.075
175.0	1.074	1.074	1.074	1.074	1.074	1.074	1.074
177.5	1.093	1.093	1.093	1.093	1.093	1.093	1.093
180.0	0.966	0.966	0.966	0.966	0.966	0.966	0.966

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Zone	Lumens	%Lamp	%Fixt
0-20	115.70	N.A.	19.30
0-30	200.84	N.A.	33.60
0-40	262.06	N.A.	43.80
0-60	355.51	N.A.	59.40
0-80	427.45	N.A.	71.50
0-90	491.52	N.A.	82.20
10-90	457.50	N.A.	76.50
20-40	146.37	N.A.	24.50
20-50	196.99	N.A.	32.90
40-70	126.75	N.A.	21.20
60-80	71.95	N.A.	12.00
70-80	38.64	N.A.	6.50
80-90	64.06	N.A.	10.70
90-110	89.61	N.A.	15.00
90-120	101.32	N.A.	16.90
90-130	103.96	N.A.	17.40
90-150	105.62	N.A.	17.70
90-180	106.54	N.A.	17.80
110-180	16.94	N.A.	2.80
0-180	598.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	34.02
10-20	81.68
20-30	85.15
30-40	61.22
40-50	50.62
50-60	42.82
60-70	33.30
70-80	38.64
80-90	64.06
90-100	54.52
100-110	35.08
110-120	11.72
120-130	2.64
130-140	0.97
140-150	0.69
150-160	0.51
160-170	0.31
170-180	0.10

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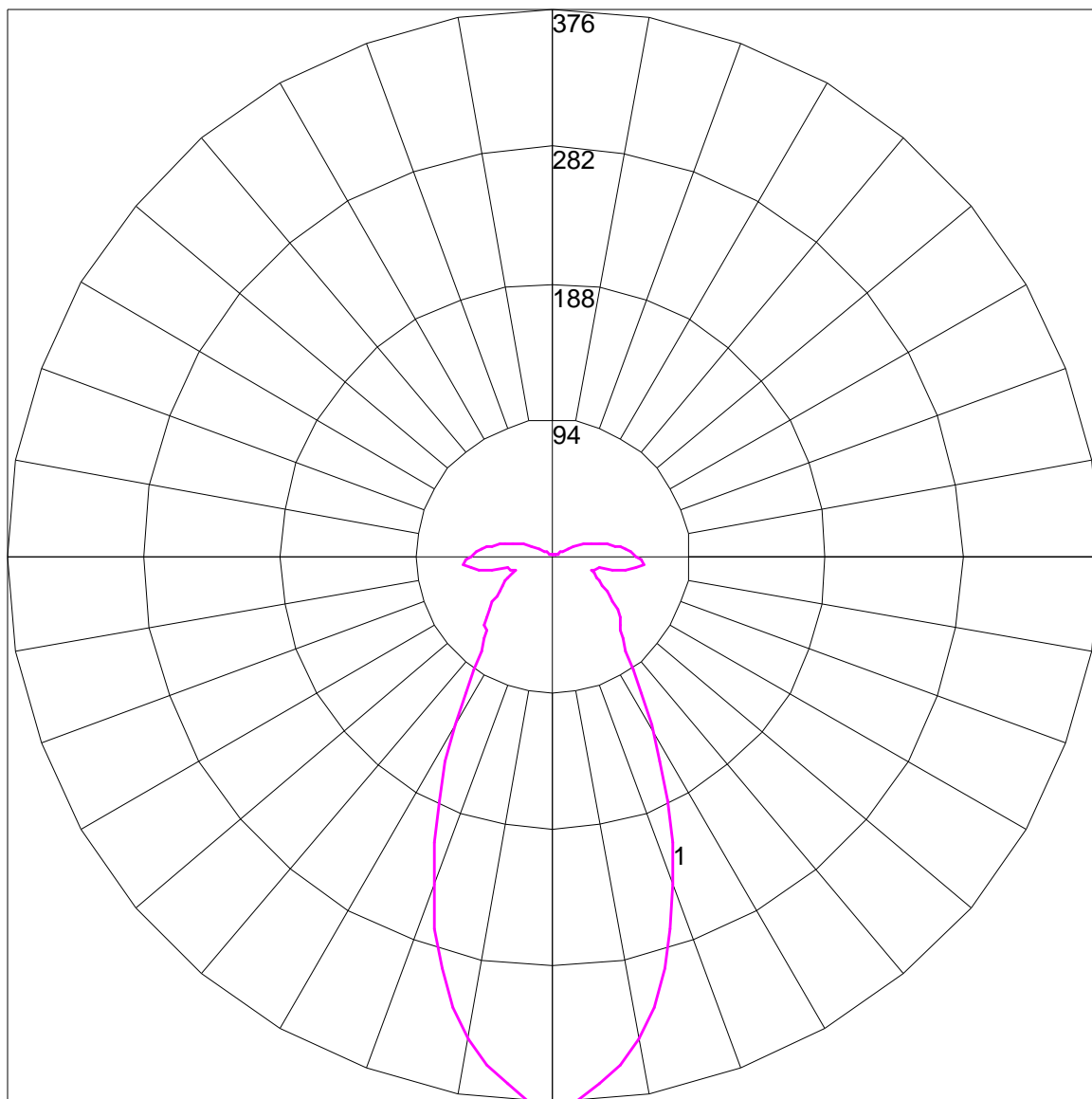
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	82
1	102	96	91	87	98	92	88	84	85	81	78	78	75	72	71	69	67	63
2	94	85	78	72	89	81	75	69	75	70	65	69	65	61	64	60	57	54
3	86	76	68	61	82	73	66	60	67	61	56	62	57	53	58	54	50	47
4	80	69	60	54	76	66	58	52	61	55	50	57	52	47	53	48	45	42
5	74	62	54	48	71	60	52	47	56	50	45	52	47	43	49	44	41	38
6	70	57	49	43	67	55	48	42	52	45	40	49	43	39	45	41	37	35
7	65	53	45	39	63	51	44	38	48	42	37	45	40	35	42	38	34	32
8	61	49	41	36	59	47	40	35	45	38	34	42	37	33	40	35	31	29
9	58	46	38	33	56	44	37	32	42	36	31	40	34	30	37	33	29	27
10	55	43	35	31	53	41	35	30	39	33	29	37	32	28	35	31	27	26

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POLAR GRAPH



Maximum Candela = 375.903 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)