

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00694\_1 ~ TT0510GV-15L35K-EX-FJ1-MB.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00694\_1\_M-15L  
[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 7/9/2018  
[UPDATE] 7/25/2018  
[LUMCAT] TT0510GV-15L-35K-EX-FJ1-MB  
[LUMINAIRE] Nom. 7.5" 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, scaled from 27L  
[\_CCTMULT] 27K x 0.971, 30K x 0.985, 40K x 1.03  
[\_LAMPMULT] 27L x 1.75  
[\_CRI] 85+

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	434
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	43
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.78
Spacing Criterion (90-270)	0.80
Spacing Criterion (Diagonal)	0.82
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.63 ft (Diameter)
Luminous Width (90-270)	0.63 ft (Diameter)
Luminous Height	0.33 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00694\_1 ~ TT0510GV-15L35K-EX-FJ1-MB.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1119	1100	1159
55	1392	1253	1331
65	1858	1647	1760
75	1843	1690	1890
85	2134	1925	2161

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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>	201.658	201.658	201.658	201.658	201.658	201.658	201.658	201.658	201.658	201.658
<b>2.5</b>	200.218	200.167	200.283	200.591	201.593	199.787	198.411	198.928	199.217	198.928
<b>5.0</b>	196.030	196.297	196.846	197.074	196.252	195.544	193.953	194.092	194.247	194.092
<b>7.5</b>	189.017	188.845	189.734	190.070	189.127	188.135	186.673	186.382	186.629	186.382
<b>10.0</b>	180.284	180.320	181.447	181.745	181.637	179.951	178.157	177.557	177.314	177.557
<b>12.5</b>	170.293	170.558	171.945	171.267	171.609	169.766	168.416	168.005	167.908	168.005
<b>15.0</b>	158.424	158.682	159.849	159.437	160.879	159.273	158.287	158.249	158.460	158.249
<b>17.5</b>	145.508	144.911	145.626	145.906	147.030	145.667	145.003	145.279	146.136	145.279
<b>20.0</b>	131.740	131.166	131.710	132.351	133.151	131.823	131.024	131.717	132.758	131.717
<b>22.5</b>	117.611	117.440	117.987	118.770	119.186	118.145	117.148	117.270	118.045	117.270
<b>25.0</b>	102.950	102.790	103.454	104.530	105.087	104.424	103.286	102.730	102.982	102.730
<b>27.5</b>	88.126	87.644	88.535	89.787	90.684	89.895	88.437	87.835	87.973	87.835
<b>30.0</b>	74.932	75.035	75.862	77.020	77.464	75.775	73.551	73.071	72.974	73.071
<b>32.5</b>	62.075	63.451	63.994	65.415	66.255	64.876	63.163	62.965	62.977	62.965
<b>35.0</b>	54.365	54.334	55.008	56.029	56.606	54.693	53.071	53.185	53.425	53.185
<b>37.5</b>	47.313	45.932	46.740	47.627	48.985	47.880	46.981	46.616	46.623	46.616
<b>40.0</b>	43.423	42.579	42.859	43.162	43.897	42.460	41.540	40.918	40.111	40.918
<b>42.5</b>	39.724	40.213	39.692	39.994	41.400	41.499	40.498	40.010	38.839	40.010
<b>45.0</b>	38.365	38.970	37.709	38.023	39.761	40.328	39.371	38.888	37.471	38.888
<b>47.5</b>	37.300	37.854	35.825	36.321	38.804	38.659	37.883	36.980	35.272	36.980
<b>50.0</b>	39.970	39.744	37.075	36.723	39.326	38.837	37.859	36.563	34.031	36.563
<b>52.5</b>	42.651	41.777	38.423	37.422	40.754	42.271	42.132	40.018	37.707	40.018
<b>55.0</b>	45.400	44.727	40.865	39.830	43.400	46.251	46.920	44.324	41.619	44.324
<b>57.5</b>	48.483	47.808	43.402	42.349	46.620	50.981	52.836	50.291	46.338	50.291
<b>60.0</b>	52.938	52.309	46.707	45.310	50.006	54.164	56.848	54.150	50.064	54.150
<b>62.5</b>	56.106	55.995	49.430	48.038	53.448	55.701	57.731	54.870	51.309	54.870
<b>65.0</b>	55.615	54.895	49.295	47.196	52.667	55.102	56.579	53.516	50.743	53.516
<b>67.5</b>	54.389	53.398	48.614	46.224	50.852	52.736	52.810	49.758	46.814	49.758
<b>70.0</b>	51.615	50.393	46.127	44.357	49.614	51.741	50.718	47.124	43.797	47.124
<b>72.5</b>	49.530	48.187	44.404	42.943	48.464	51.635	50.300	45.511	42.090	45.511
<b>75.0</b>	48.559	48.147	44.514	43.532	49.793	52.498	51.099	46.200	42.161	46.200
<b>77.5</b>	48.424	48.244	44.716	44.067	51.311	53.838	52.840	48.511	44.220	48.511
<b>80.0</b>	49.323	48.615	45.089	44.439	50.996	53.436	52.504	47.687	43.766	47.687
<b>82.5</b>	48.790	47.750	44.413	44.016	50.517	52.392	50.908	45.161	41.144	45.161
<b>85.0</b>	46.853	44.981	42.282	41.826	47.460	49.640	48.274	42.509	38.665	42.509
<b>87.5</b>	44.021	42.199	39.759	39.229	44.397	46.443	45.168	39.805	36.283	39.805
<b>90.0</b>	40.513	39.403	36.811	35.940	41.285	42.765	41.653	36.573	33.845	36.573
<b>92.5</b>	36.965	36.403	33.763	32.909	38.159	39.006	38.001	33.186	31.379	33.186
<b>95.0</b>	33.395	33.214	30.632	30.211	34.970	36.122	34.675	30.743	28.978	30.743
<b>97.5</b>	30.704	30.462	28.140	27.694	31.890	33.319	31.427	28.488	26.602	28.488
<b>100.0</b>	28.406	28.029	26.067	25.362	29.155	30.692	28.918	25.916	23.786	25.916
<b>102.5</b>	25.770	25.487	23.127	22.581	25.982	28.009	26.516	23.307	20.847	23.307
<b>105.0</b>	23.025	22.884	19.750	19.443	21.780	23.892	22.593	19.640	18.103	19.640
<b>107.5</b>	19.434	19.481	16.679	15.315	17.467	19.538	18.559	15.955	15.395	15.955
<b>110.0</b>	15.650	15.741	13.723	10.579	12.957	13.113	15.551	13.757	11.682	13.757
<b>112.5</b>	10.530	12.256	11.277	6.858	8.550	7.277	12.566	11.560	7.863	11.560
<b>115.0</b>	5.226	8.849	8.970	3.617	4.285	4.412	9.944	9.385	5.469	9.385
<b>117.5</b>	3.564	6.935	6.417	2.077	1.807	2.023	7.366	7.305	3.176	7.305
<b>120.0</b>	2.137	5.333	3.821	1.124	1.232	1.274	5.109	5.803	2.671	5.803
<b>122.5</b>	1.758	4.212	2.713	0.845	0.902	0.723	3.108	4.441	2.161	4.441
<b>125.0</b>	1.398	3.150	1.747	0.732	0.775	0.658	2.260	3.621	1.592	3.621

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**CANDELA TABULATION - (Cont.)**

127.5	1.306	2.554	1.151	0.677	0.688	0.602	1.519	2.846	1.104	2.846
130.0	1.212	1.984	0.586	0.630	0.628	0.560	1.117	2.196	1.051	2.196
132.5	1.096	1.597	0.591	0.609	0.622	0.580	0.793	1.612	1.003	1.612
135.0	0.972	1.216	0.601	0.589	0.643	0.687	0.649	1.157	0.969	1.157
137.5	0.818	0.917	0.661	0.716	0.638	0.723	0.587	0.861	0.928	0.861
140.0	0.691	0.656	0.706	0.832	0.623	0.680	0.669	0.811	0.870	0.811
142.5	0.647	0.623	0.664	0.713	0.668	0.633	0.693	0.758	0.800	0.758
145.0	0.643	0.605	0.641	0.611	0.727	0.582	0.641	0.698	0.711	0.698
147.5	0.727	0.645	0.686	0.635	0.708	0.562	0.642	0.658	0.665	0.658
150.0	0.766	0.663	0.701	0.650	0.677	0.563	0.698	0.637	0.685	0.637
152.5	0.732	0.619	0.639	0.623	0.642	0.589	0.691	0.615	0.700	0.615
155.0	0.704	0.611	0.583	0.602	0.608	0.629	0.633	0.595	0.710	0.595
157.5	0.683	0.678	0.536	0.598	0.625	0.644	0.603	0.596	0.681	0.596
160.0	0.660	0.724	0.560	0.610	0.644	0.649	0.591	0.610	0.617	0.610
162.5	0.634	0.737	0.688	0.656	0.681	0.682	0.608	0.593	0.618	0.593
165.0	0.543	0.712	0.672	0.666	0.700	0.707	0.626	0.574	0.653	0.574
167.5	0.414	0.654	0.527	0.634	0.680	0.642	0.539	0.641	0.756	0.641
170.0	0.503	0.662	0.570	0.723	0.571	0.652	0.490	0.650	0.732	0.650
172.5	0.694	0.668	0.621	0.774	0.583	0.676	0.537	0.647	0.672	0.647
175.0	0.872	0.653	0.634	0.699	0.616	0.626	0.627	0.642	0.615	0.642
177.5	0.587	0.650	0.678	0.653	0.707	0.584	0.572	0.637	0.741	0.637
180.0	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619	0.619

**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	201.658	201.658	201.658	201.658	201.658	201.658	201.658
2.5	198.411	199.787	201.593	200.591	200.283	200.167	200.218
5.0	193.953	195.544	196.252	197.074	196.846	196.297	196.030
7.5	186.673	188.135	189.127	190.070	189.734	188.845	189.017
10.0	178.157	179.951	181.637	181.745	181.447	180.320	180.284
12.5	168.416	169.766	171.609	171.267	171.945	170.558	170.293
15.0	158.287	159.273	160.879	159.437	159.849	158.682	158.424
17.5	145.003	145.667	147.030	145.906	145.626	144.911	145.508
20.0	131.024	131.823	133.151	132.351	131.710	131.166	131.740
22.5	117.148	118.145	119.186	118.770	117.987	117.440	117.611
25.0	103.286	104.424	105.087	104.530	103.454	102.790	102.950
27.5	88.437	89.895	90.684	89.787	88.535	87.644	88.126
30.0	73.551	75.775	77.464	77.020	75.862	75.035	74.932
32.5	63.163	64.876	66.255	65.415	63.994	63.451	62.075
35.0	53.071	54.693	56.606	56.029	55.008	54.334	54.365
37.5	46.981	47.880	48.985	47.627	46.740	45.932	47.313
40.0	41.540	42.460	43.897	43.162	42.859	42.579	43.423
42.5	40.498	41.499	41.400	39.994	39.692	40.213	39.724
45.0	39.371	40.328	39.761	38.023	37.709	38.970	38.365
47.5	37.883	38.659	38.804	36.321	35.825	37.854	37.300
50.0	37.859	38.837	39.326	36.723	37.075	39.744	39.970
52.5	42.132	42.271	40.754	37.422	38.423	41.777	42.651
55.0	46.920	46.251	43.400	39.830	40.865	44.727	45.400
57.5	52.836	50.981	46.620	42.349	43.402	47.808	48.483
60.0	56.848	54.164	50.006	45.310	46.707	52.309	52.938
62.5	57.731	55.701	53.448	48.038	49.430	55.995	56.106
65.0	56.579	55.102	52.667	47.196	49.295	54.895	55.615

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**CANDELA TABULATION - (Cont.)**

67.5	52.810	52.736	50.852	46.224	48.614	53.398	54.389
70.0	50.718	51.741	49.614	44.357	46.127	50.393	51.615
72.5	50.300	51.635	48.464	42.943	44.404	48.187	49.530
75.0	51.099	52.498	49.793	43.532	44.514	48.147	48.559
77.5	52.840	53.838	51.311	44.067	44.716	48.244	48.424
80.0	52.504	53.436	50.996	44.439	45.089	48.615	49.323
82.5	50.908	52.392	50.517	44.016	44.413	47.750	48.790
85.0	48.274	49.640	47.460	41.826	42.282	44.981	46.853
87.5	45.168	46.443	44.397	39.229	39.759	42.199	44.021
90.0	41.653	42.765	41.285	35.940	36.811	39.403	40.513
92.5	38.001	39.006	38.159	32.909	33.763	36.403	36.965
95.0	34.675	36.122	34.970	30.211	30.632	33.214	33.395
97.5	31.427	33.319	31.890	27.694	28.140	30.462	30.704
100.0	28.918	30.692	29.155	25.362	26.067	28.029	28.406
102.5	26.516	28.009	25.982	22.581	23.127	25.487	25.770
105.0	22.593	23.892	21.780	19.443	19.750	22.884	23.025
107.5	18.559	19.538	17.467	15.315	16.679	19.481	19.434
110.0	15.551	13.113	12.957	10.579	13.723	15.741	15.650
112.5	12.566	7.277	8.550	6.858	11.277	12.256	10.530
115.0	9.944	4.412	4.285	3.617	8.970	8.849	5.226
117.5	7.366	2.023	1.807	2.077	6.417	6.935	3.564
120.0	5.109	1.274	1.232	1.124	3.821	5.333	2.137
122.5	3.108	0.723	0.902	0.845	2.713	4.212	1.758
125.0	2.260	0.658	0.775	0.732	1.747	3.150	1.398
127.5	1.519	0.602	0.688	0.677	1.151	2.554	1.306
130.0	1.117	0.560	0.628	0.630	0.586	1.984	1.212
132.5	0.793	0.580	0.622	0.609	0.591	1.597	1.096
135.0	0.649	0.687	0.643	0.589	0.601	1.216	0.972
137.5	0.587	0.723	0.638	0.716	0.661	0.917	0.818
140.0	0.669	0.680	0.623	0.832	0.706	0.656	0.691
142.5	0.693	0.633	0.668	0.713	0.664	0.623	0.647
145.0	0.641	0.582	0.727	0.611	0.641	0.605	0.643
147.5	0.642	0.562	0.708	0.635	0.686	0.645	0.727
150.0	0.698	0.563	0.677	0.650	0.701	0.663	0.766
152.5	0.691	0.589	0.642	0.623	0.639	0.619	0.732
155.0	0.633	0.629	0.608	0.602	0.583	0.611	0.704
157.5	0.603	0.644	0.625	0.598	0.536	0.678	0.683
160.0	0.591	0.649	0.644	0.610	0.560	0.724	0.660
162.5	0.608	0.682	0.681	0.656	0.688	0.737	0.634
165.0	0.626	0.707	0.700	0.666	0.672	0.712	0.543
167.5	0.539	0.642	0.680	0.634	0.527	0.654	0.414
170.0	0.490	0.652	0.571	0.723	0.570	0.662	0.503
172.5	0.537	0.676	0.583	0.774	0.621	0.668	0.694
175.0	0.627	0.626	0.616	0.699	0.634	0.653	0.872
177.5	0.572	0.584	0.707	0.653	0.678	0.650	0.587
180.0	0.619	0.619	0.619	0.619	0.619	0.619	0.619

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Zone	Lumens	%Lamp	%Fixt
0-20	62.16	N.A.	14.30
0-30	109.30	N.A.	25.20
0-40	144.18	N.A.	33.20
0-60	214.15	N.A.	49.30
0-80	316.30	N.A.	72.90
0-90	364.96	N.A.	84.10
10-90	346.80	N.A.	79.90
20-40	82.02	N.A.	18.90
20-50	112.30	N.A.	25.90
40-70	121.31	N.A.	27.90
60-80	102.15	N.A.	23.50
70-80	50.81	N.A.	11.70
80-90	48.66	N.A.	11.20
90-110	58.26	N.A.	13.40
90-120	65.75	N.A.	15.10
90-130	67.51	N.A.	15.60
90-150	68.59	N.A.	15.80
90-180	69.13	N.A.	15.90
110-180	10.86	N.A.	2.50
0-180	434.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	18.16
10-20	44.00
20-30	47.14
30-40	34.88
40-50	30.28
50-60	39.69
60-70	51.33
70-80	50.81
80-90	48.66
90-100	35.93
100-110	22.33
110-120	7.49
120-130	1.76
130-140	0.66
140-150	0.42
150-160	0.29
160-170	0.18
170-180	0.06

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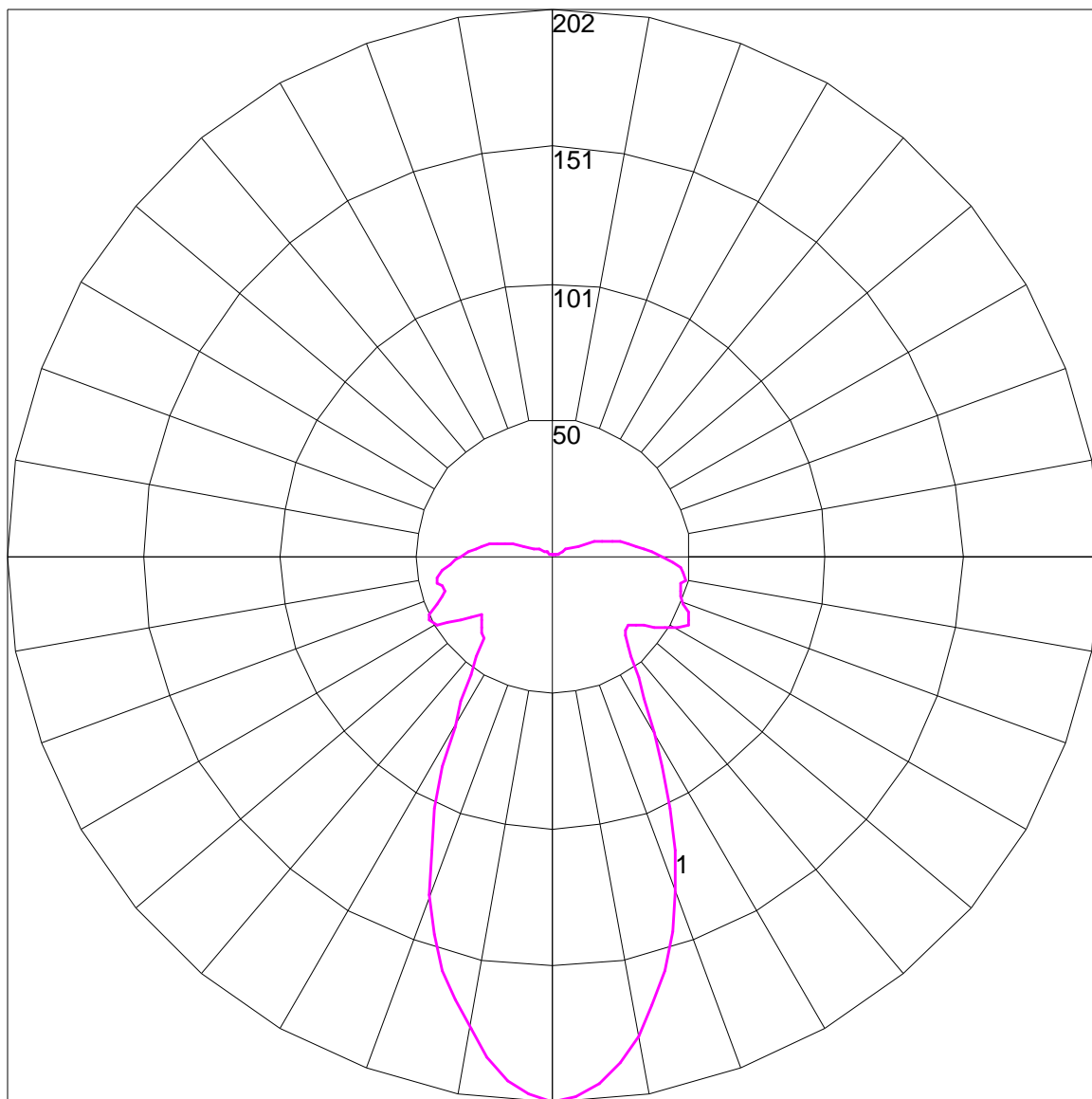
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	111	111	111	102	102	102	95	95	95	87	87	87	84
1	101	94	88	83	96	90	85	80	83	79	75	76	73	69	70	67	65	61
2	91	81	72	65	86	77	70	63	71	65	59	65	60	56	60	56	52	49
3	82	70	61	54	78	68	59	52	62	55	49	57	51	46	53	48	44	41
4	76	63	53	46	72	60	51	45	55	48	42	51	45	40	47	42	38	35
5	70	56	47	40	66	54	45	39	50	43	37	46	40	35	43	38	33	31
6	65	51	42	35	62	49	41	34	46	38	33	43	36	31	40	34	30	27
7	60	47	38	32	58	45	37	31	42	35	30	39	33	28	37	31	27	25
8	57	43	35	29	54	42	34	28	39	32	27	37	30	26	34	29	25	23
9	53	40	32	26	51	39	31	26	36	30	25	34	28	24	32	27	23	21
10	50	37	29	24	48	36	29	24	34	27	23	32	26	22	30	25	21	19

IES INDOOR REPORT  
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POLAR GRAPH



Maximum Candela = 201.658 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)