

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00694_1 ~ TT0510GV-27L35K-EX-FJ1-MB.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00694_1
[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 7/9/2018
[UPDATE] 7/25/2018
[LUMCAT] TT0510GV-27L-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
[_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	758
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	42
Total Luminaire Watts	18
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-27L35K-EX-FJ1-MB.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1952	1919	2024
55	2430	2187	2323
65	3243	2874	3071
75	3217	2949	3298
85	3723	3360	3772

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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	351.934	351.934	351.934	351.934	351.934	351.934	351.934	351.934	351.934	351.934
2.5	349.421	349.331	349.534	350.072	351.821	348.669	346.267	347.169	347.673	347.169
5.0	342.112	342.578	343.536	343.933	342.499	341.264	338.487	338.729	339.000	338.729
7.5	329.872	329.573	331.124	331.710	330.064	328.333	325.782	325.274	325.705	325.274
10.0	314.632	314.695	316.662	317.182	316.993	314.050	310.920	309.873	309.448	309.873
12.5	297.195	297.658	300.078	298.896	299.492	296.276	293.919	293.202	293.034	293.202
15.0	276.482	276.932	278.968	278.249	280.767	277.963	276.242	276.177	276.544	276.177
17.5	253.941	252.898	254.146	254.636	256.596	254.219	253.060	253.541	255.036	253.541
20.0	229.912	228.911	229.860	230.979	232.375	230.058	228.664	229.873	231.690	229.873
22.5	205.255	204.957	205.911	207.278	208.004	206.187	204.447	204.660	206.012	204.660
25.0	179.669	179.389	180.548	182.426	183.398	182.241	180.254	179.285	179.724	179.285
27.5	153.797	152.956	154.511	156.696	158.262	156.885	154.340	153.290	153.531	153.290
30.0	130.771	130.952	132.394	134.415	135.191	132.242	128.361	127.524	127.354	127.524
32.5	108.334	110.734	111.682	114.162	115.628	113.222	110.232	109.886	109.908	109.886
35.0	94.878	94.823	96.000	97.781	98.788	95.451	92.620	92.818	93.237	92.818
37.5	82.571	80.160	81.571	83.118	85.488	83.560	81.992	81.355	81.367	81.355
40.0	75.782	74.309	74.798	75.326	76.609	74.101	72.496	71.410	70.002	71.410
42.5	69.327	70.179	69.270	69.797	72.252	72.424	70.677	69.826	67.781	69.826
45.0	66.954	68.011	65.809	66.358	69.391	70.380	68.710	67.867	65.395	67.867
47.5	65.096	66.063	62.521	63.388	67.720	67.467	66.113	64.538	61.556	64.538
50.0	69.756	69.361	64.703	64.089	68.631	67.778	66.071	63.809	59.391	63.809
52.5	74.435	72.910	67.056	65.309	71.124	73.771	73.529	69.839	65.806	69.839
55.0	79.232	78.058	71.318	69.511	75.741	80.718	81.885	77.354	72.634	77.354
57.5	84.613	83.435	75.745	73.908	81.361	88.972	92.209	87.768	80.869	87.768
60.0	92.388	91.290	81.513	79.075	87.270	94.527	99.212	94.503	87.371	94.503
62.5	97.917	97.722	86.265	83.836	93.277	97.209	100.753	95.759	89.544	95.759
65.0	97.059	95.803	86.030	82.366	91.914	96.164	98.741	93.397	88.557	93.397
67.5	94.920	93.191	84.842	80.671	88.747	92.035	92.164	86.837	81.699	86.837
70.0	90.078	87.946	80.500	77.411	86.586	90.299	88.513	82.240	76.435	82.240
72.5	86.440	84.096	77.494	74.945	84.579	90.113	87.784	79.425	73.455	79.425
75.0	84.746	84.027	77.685	75.972	86.899	91.620	89.178	80.629	73.580	80.629
77.5	84.510	84.195	78.038	76.905	89.548	93.958	92.217	84.661	77.172	84.661
80.0	86.078	84.843	78.689	77.555	88.999	93.256	91.630	83.224	76.380	83.224
82.5	85.148	83.334	77.509	76.816	88.162	91.434	88.845	78.815	71.804	78.815
85.0	81.768	78.501	73.790	72.995	82.828	86.631	84.248	74.186	67.478	74.186
87.5	76.826	73.646	69.388	68.463	77.482	81.053	78.827	69.467	63.321	69.467
90.0	70.703	68.766	64.243	62.723	72.050	74.634	72.693	63.828	59.067	63.828
92.5	64.512	63.531	58.924	57.432	66.595	68.073	66.319	57.917	54.763	57.917
95.0	58.281	57.965	53.459	52.725	61.030	63.041	60.515	53.652	50.573	53.652
97.5	53.585	53.163	49.110	48.332	55.655	58.148	54.846	49.717	46.426	49.717
100.0	49.574	48.917	45.492	44.261	50.881	53.564	50.467	45.229	41.512	45.229
102.5	44.974	44.480	40.362	39.408	45.344	48.882	46.276	40.676	36.382	40.676
105.0	40.184	39.937	34.467	33.932	38.011	41.696	39.430	34.275	31.594	34.275
107.5	33.917	33.999	29.108	26.727	30.483	34.097	32.390	27.844	26.868	27.844
110.0	27.312	27.472	23.949	18.462	22.613	22.885	27.139	24.008	20.388	24.008
112.5	18.377	21.389	19.681	11.969	14.922	12.700	21.931	20.175	13.722	20.175
115.0	9.120	15.444	15.654	6.312	7.478	7.700	17.355	16.378	9.544	16.378
117.5	6.220	12.103	11.199	3.625	3.154	3.530	12.855	12.748	5.542	12.748
120.0	3.730	9.307	6.669	1.961	2.150	2.223	8.917	10.127	4.661	10.127
122.5	3.068	7.350	4.735	1.475	1.574	1.261	5.424	7.751	3.771	7.751
125.0	2.439	5.498	3.048	1.278	1.352	1.149	3.944	6.319	2.779	6.319

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CANDELA TABULATION - (Cont.)

127.5	2.280	4.457	2.008	1.181	1.201	1.050	2.651	4.967	1.927	4.967
130.0	2.115	3.463	1.023	1.100	1.096	0.978	1.949	3.833	1.835	3.833
132.5	1.912	2.787	1.031	1.062	1.086	1.012	1.384	2.813	1.750	2.813
135.0	1.696	2.122	1.048	1.028	1.122	1.199	1.133	2.020	1.691	2.020
137.5	1.427	1.601	1.154	1.250	1.113	1.262	1.025	1.503	1.620	1.503
140.0	1.206	1.144	1.232	1.452	1.088	1.187	1.167	1.416	1.518	1.416
142.5	1.130	1.088	1.158	1.245	1.165	1.105	1.209	1.322	1.397	1.322
145.0	1.122	1.056	1.118	1.067	1.269	1.015	1.118	1.219	1.240	1.219
147.5	1.268	1.125	1.197	1.109	1.236	0.980	1.121	1.149	1.160	1.149
150.0	1.337	1.157	1.224	1.135	1.181	0.982	1.219	1.111	1.195	1.111
152.5	1.278	1.081	1.116	1.087	1.121	1.028	1.206	1.074	1.222	1.074
155.0	1.228	1.067	1.018	1.050	1.061	1.098	1.104	1.038	1.239	1.038
157.5	1.192	1.184	0.936	1.044	1.091	1.124	1.052	1.040	1.188	1.040
160.0	1.152	1.264	0.978	1.064	1.124	1.133	1.031	1.064	1.076	1.064
162.5	1.106	1.286	1.201	1.144	1.188	1.191	1.061	1.035	1.079	1.035
165.0	0.948	1.243	1.172	1.163	1.221	1.234	1.092	1.002	1.140	1.002
167.5	0.722	1.141	0.920	1.107	1.186	1.120	0.941	1.119	1.319	1.119
170.0	0.877	1.156	0.994	1.262	0.997	1.137	0.856	1.135	1.277	1.135
172.5	1.212	1.165	1.083	1.350	1.018	1.180	0.937	1.130	1.172	1.130
175.0	1.522	1.140	1.107	1.220	1.075	1.092	1.094	1.121	1.073	1.121
177.5	1.025	1.135	1.184	1.140	1.234	1.019	0.999	1.111	1.293	1.111
180.0	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080	1.080

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	351.934	351.934	351.934	351.934	351.934	351.934	351.934
2.5	346.267	348.669	351.821	350.072	349.534	349.331	349.421
5.0	338.487	341.264	342.499	343.933	343.536	342.578	342.112
7.5	325.782	328.333	330.064	331.710	331.124	329.573	329.872
10.0	310.920	314.050	316.993	317.182	316.662	314.695	314.632
12.5	293.919	296.276	299.492	298.896	300.078	297.658	297.195
15.0	276.242	277.963	280.767	278.249	278.968	276.932	276.482
17.5	253.060	254.219	256.596	254.636	254.146	252.898	253.941
20.0	228.664	230.058	232.375	230.979	229.860	228.911	229.912
22.5	204.447	206.187	208.004	207.278	205.911	204.957	205.255
25.0	180.254	182.241	183.398	182.426	180.548	179.389	179.669
27.5	154.340	156.885	158.262	156.696	154.511	152.956	153.797
30.0	128.361	132.242	135.191	134.415	132.394	130.952	130.771
32.5	110.232	113.222	115.628	114.162	111.682	110.734	108.334
35.0	92.620	95.451	98.788	97.781	96.000	94.823	94.878
37.5	81.992	83.560	85.488	83.118	81.571	80.160	82.571
40.0	72.496	74.101	76.609	75.326	74.798	74.309	75.782
42.5	70.677	72.424	72.252	69.797	69.270	70.179	69.327
45.0	68.710	70.380	69.391	66.358	65.809	68.011	66.954
47.5	66.113	67.467	67.720	63.388	62.521	66.063	65.096
50.0	66.071	67.778	68.631	64.089	64.703	69.361	69.756
52.5	73.529	73.771	71.124	65.309	67.056	72.910	74.435
55.0	81.885	80.718	75.741	69.511	71.318	78.058	79.232
57.5	92.209	88.972	81.361	73.908	75.745	83.435	84.613
60.0	99.212	94.527	87.270	79.075	81.513	91.290	92.388
62.5	100.753	97.209	93.277	83.836	86.265	97.722	97.917
65.0	98.741	96.164	91.914	82.366	86.030	95.803	97.059

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67.5	92.164	92.035	88.747	80.671	84.842	93.191	94.920
70.0	88.513	90.299	86.586	77.411	80.500	87.946	90.078
72.5	87.784	90.113	84.579	74.945	77.494	84.096	86.440
75.0	89.178	91.620	86.899	75.972	77.685	84.027	84.746
77.5	92.217	93.958	89.548	76.905	78.038	84.195	84.510
80.0	91.630	93.256	88.999	77.555	78.689	84.843	86.078
82.5	88.845	91.434	88.162	76.816	77.509	83.334	85.148
85.0	84.248	86.631	82.828	72.995	73.790	78.501	81.768
87.5	78.827	81.053	77.482	68.463	69.388	73.646	76.826
90.0	72.693	74.634	72.050	62.723	64.243	68.766	70.703
92.5	66.319	68.073	66.595	57.432	58.924	63.531	64.512
95.0	60.515	63.041	61.030	52.725	53.459	57.965	58.281
97.5	54.846	58.148	55.655	48.332	49.110	53.163	53.585
100.0	50.467	53.564	50.881	44.261	45.492	48.917	49.574
102.5	46.276	48.882	45.344	39.408	40.362	44.480	44.974
105.0	39.430	41.696	38.011	33.932	34.467	39.937	40.184
107.5	32.390	34.097	30.483	26.727	29.108	33.999	33.917
110.0	27.139	22.885	22.613	18.462	23.949	27.472	27.312
112.5	21.931	12.700	14.922	11.969	19.681	21.389	18.377
115.0	17.355	7.700	7.478	6.312	15.654	15.444	9.120
117.5	12.855	3.530	3.154	3.625	11.199	12.103	6.220
120.0	8.917	2.223	2.150	1.961	6.669	9.307	3.730
122.5	5.424	1.261	1.574	1.475	4.735	7.350	3.068
125.0	3.944	1.149	1.352	1.278	3.048	5.498	2.439
127.5	2.651	1.050	1.201	1.181	2.008	4.457	2.280
130.0	1.949	0.978	1.096	1.100	1.023	3.463	2.115
132.5	1.384	1.012	1.086	1.062	1.031	2.787	1.912
135.0	1.133	1.199	1.122	1.028	1.048	2.122	1.696
137.5	1.025	1.262	1.113	1.250	1.154	1.601	1.427
140.0	1.167	1.187	1.088	1.452	1.232	1.144	1.206
142.5	1.209	1.105	1.165	1.245	1.158	1.088	1.130
145.0	1.118	1.015	1.269	1.067	1.118	1.056	1.122
147.5	1.121	0.980	1.236	1.109	1.197	1.125	1.268
150.0	1.219	0.982	1.181	1.135	1.224	1.157	1.337
152.5	1.206	1.028	1.121	1.087	1.116	1.081	1.278
155.0	1.104	1.098	1.061	1.050	1.018	1.067	1.228
157.5	1.052	1.124	1.091	1.044	0.936	1.184	1.192
160.0	1.031	1.133	1.124	1.064	0.978	1.264	1.152
162.5	1.061	1.191	1.188	1.144	1.201	1.286	1.106
165.0	1.092	1.234	1.221	1.163	1.172	1.243	0.948
167.5	0.941	1.120	1.186	1.107	0.920	1.141	0.722
170.0	0.856	1.137	0.997	1.262	0.994	1.156	0.877
172.5	0.937	1.180	1.018	1.350	1.083	1.165	1.212
175.0	1.094	1.092	1.075	1.220	1.107	1.140	1.522
177.5	0.999	1.019	1.234	1.140	1.184	1.135	1.025
180.0	1.080	1.080	1.080	1.080	1.080	1.080	1.080

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Zone	Lumens	%Lamp	%Fixt
0-20	108.48	N.A.	14.30
0-30	190.75	N.A.	25.20
0-40	251.62	N.A.	33.20
0-60	373.74	N.A.	49.30
0-80	552.00	N.A.	72.90
0-90	636.92	N.A.	84.10
10-90	605.23	N.A.	79.90
20-40	143.14	N.A.	18.90
20-50	195.98	N.A.	25.90
40-70	211.70	N.A.	27.90
60-80	178.26	N.A.	23.50
70-80	88.68	N.A.	11.70
80-90	84.92	N.A.	11.20
90-110	101.68	N.A.	13.40
90-120	114.75	N.A.	15.10
90-130	117.82	N.A.	15.60
90-150	119.71	N.A.	15.80
90-180	120.64	N.A.	15.90
110-180	18.96	N.A.	2.50
0-180	757.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	31.69
10-20	76.80
20-30	82.26
30-40	60.88
40-50	52.84
50-60	69.27
60-70	89.59
70-80	88.68
80-90	84.92
90-100	62.70
100-110	38.98
110-120	13.07
120-130	3.07
130-140	1.16
140-150	0.74
150-160	0.51
160-170	0.32
170-180	0.11

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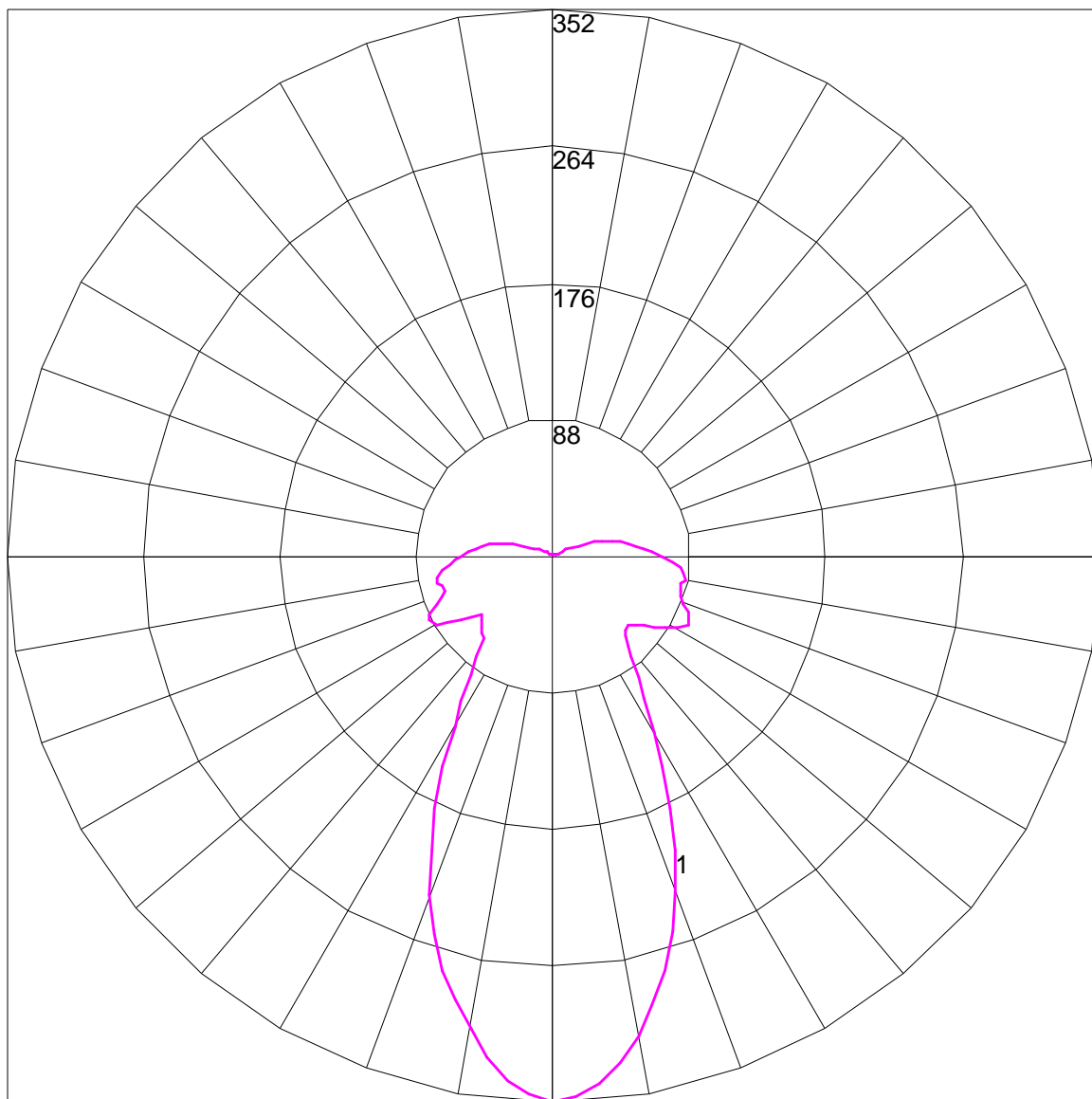
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	94	94	94	87	87	87	84
1	101	94	88	83	96	90	85	80	83	78	75	76	73	69	70	67	65	61
2	90	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	75	62	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

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POLAR GRAPH



Maximum Candela = 351.934 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)