

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00427\_3 ~ TT1010GV-27L35K-EX-FJ1-MB.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00427\_3  
[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 7/9/2018  
[UPDATE] 7/25/2018  
[LUMCAT] TT1010GV-27L-35K-EX-FJ1-MB  
[LUMINAIRE] Nom. 10" 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	647
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	36
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.78
Spacing Criterion (90-270)	0.76
Spacing Criterion (Diagonal)	0.80
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.86 ft (Diameter)
Luminous Width (90-270)	0.86 ft (Diameter)
Luminous Height	0.33 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00427\_3 ~ TT1010GV-27L35K-EX-FJ1-MB.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1243	1215	1121
55	952	1002	875
65	805	834	737
75	1604	1685	1378
85	2127	2311	1899

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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	375.751	375.751	375.751	375.751	375.751	375.751	375.751	375.751	375.751	375.751
2.5	376.117	375.674	375.944	375.724	372.139	375.724	375.944	375.674	376.117	374.793
5.0	365.459	365.791	366.039	365.497	363.218	365.497	366.039	365.791	365.459	364.258
7.5	354.342	355.044	355.746	354.606	351.555	354.606	355.746	355.044	354.342	353.195
10.0	337.600	339.405	338.164	336.897	334.183	336.897	338.164	339.405	337.600	336.670
12.5	320.104	322.366	319.939	318.785	313.852	318.785	319.939	322.366	320.104	319.668
15.0	297.471	299.827	296.125	292.078	288.563	292.078	296.125	299.827	297.471	294.254
17.5	273.900	275.932	271.955	265.553	262.563	265.553	271.955	275.932	273.900	268.776
20.0	245.864	247.935	245.776	240.902	235.593	240.902	245.776	247.935	245.864	242.724
22.5	217.842	220.149	218.940	215.599	208.606	215.599	218.940	220.149	217.842	216.314
25.0	189.865	192.850	189.504	186.325	181.600	186.325	189.504	192.850	189.865	187.911
27.5	162.795	166.014	161.419	158.192	155.845	158.192	161.419	166.014	162.795	160.159
30.0	138.090	140.035	137.298	134.965	131.224	134.965	137.298	140.035	138.090	134.937
32.5	115.959	116.952	115.230	113.315	110.940	113.315	115.230	116.952	115.959	112.109
35.0	99.177	98.222	97.917	96.671	93.877	96.671	97.917	98.222	99.177	96.456
37.5	85.874	85.003	84.196	82.576	81.864	82.576	84.196	85.003	85.874	83.511
40.0	78.306	78.461	77.071	74.705	72.861	74.705	77.071	78.461	78.306	76.803
42.5	73.050	73.819	71.808	68.838	67.513	68.838	71.808	73.819	73.050	70.969
45.0	70.901	71.067	69.274	66.898	63.919	66.898	69.274	71.067	70.901	66.731
47.5	66.957	67.435	65.905	63.902	59.902	63.902	65.905	67.435	66.957	62.282
50.0	61.035	63.084	61.518	59.256	55.724	59.256	61.518	63.084	61.035	57.518
52.5	55.480	58.116	57.178	54.485	51.027	54.485	57.178	58.116	55.480	52.613
55.0	50.251	52.741	52.882	49.557	46.182	49.557	52.882	52.741	50.251	47.539
57.5	45.854	47.790	48.257	45.263	42.787	45.263	48.257	47.790	45.854	42.748
60.0	42.064	43.066	43.371	41.633	39.696	41.633	43.371	43.066	42.064	38.237
62.5	39.559	40.373	40.581	39.026	37.117	39.026	40.581	40.373	39.559	36.360
65.0	37.819	38.545	39.176	37.284	34.611	37.284	39.176	38.545	37.819	36.621
67.5	42.595	43.185	43.617	39.671	37.352	39.671	43.617	43.185	42.595	39.759
70.0	50.444	49.934	51.143	44.900	40.497	44.900	51.143	49.934	50.444	44.777
72.5	57.264	57.640	58.967	51.496	47.609	51.496	58.967	57.640	57.264	50.394
75.0	63.701	65.585	66.915	58.864	54.697	58.864	66.915	65.585	63.701	56.327
77.5	67.104	70.085	71.277	63.104	57.073	63.104	71.277	70.085	67.104	60.049
80.0	69.640	73.988	74.462	65.956	59.278	65.956	74.462	73.988	69.640	62.837
82.5	68.428	73.349	73.793	65.714	59.516	65.714	73.793	73.349	68.428	61.829
85.0	66.450	72.234	72.195	64.394	59.315	64.394	72.195	72.234	66.450	59.595
87.5	62.222	68.405	68.182	60.850	56.050	60.850	68.182	68.405	62.222	56.393
90.0	57.675	64.432	63.764	56.717	52.887	56.717	63.764	64.432	57.675	52.952
92.5	53.379	59.599	58.864	52.405	50.197	52.405	58.864	59.599	53.379	48.917
95.0	49.103	54.825	53.913	48.059	47.115	48.059	53.913	54.825	49.103	44.779
97.5	46.130	51.016	50.506	44.547	42.724	44.547	50.506	51.016	46.130	41.470
100.0	43.105	47.056	47.157	41.137	38.531	41.137	47.157	47.056	43.105	38.247
102.5	37.345	41.754	41.484	36.472	34.855	36.472	41.484	41.754	37.345	34.334
105.0	31.596	36.458	35.847	31.729	30.446	31.729	35.847	36.458	31.596	30.381
107.5	25.976	31.189	30.836	24.365	24.542	24.365	30.836	31.189	25.976	25.357
110.0	20.233	26.024	25.892	17.026	18.045	17.026	25.892	26.024	20.233	20.424
112.5	13.679	21.258	21.506	10.591	10.590	10.591	21.506	21.258	13.679	16.970
115.0	7.884	16.969	17.099	4.590	5.374	4.590	17.099	16.969	7.884	13.620
117.5	5.594	14.092	12.587	2.835	3.164	2.835	12.587	14.092	5.594	11.184
120.0	3.766	11.494	8.435	1.304	1.947	1.304	8.435	11.494	3.766	8.861
122.5	3.480	9.531	5.671	1.088	1.808	1.088	5.671	9.531	3.480	7.153
125.0	3.174	7.659	3.297	0.950	1.589	0.950	3.297	7.659	3.174	5.581

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**CANDELA TABULATION - (Cont.)**

127.5	2.815	5.950	2.044	1.142	1.298	1.142	2.044	5.950	2.815	4.518
130.0	2.464	4.405	1.177	1.263	1.281	1.263	1.177	4.405	2.464	3.553
132.5	2.132	3.098	1.186	1.161	1.464	1.161	1.186	3.098	2.132	2.878
135.0	1.784	2.159	1.118	1.104	1.426	1.104	1.118	2.159	1.784	2.207
137.5	1.410	1.657	0.910	1.156	1.257	1.156	0.910	1.657	1.410	1.545
140.0	1.279	1.377	0.852	1.215	1.223	1.215	0.852	1.377	1.279	1.138
142.5	1.468	1.313	1.007	1.288	1.252	1.288	1.007	1.313	1.468	1.189
145.0	1.500	1.171	1.044	1.298	1.192	1.298	1.044	1.171	1.500	1.172
147.5	1.364	0.967	0.939	1.213	1.099	1.213	0.939	0.967	1.364	1.058
150.0	1.180	0.956	0.954	1.197	1.199	1.197	0.954	0.956	1.180	0.995
152.5	0.957	1.069	1.085	1.266	1.352	1.266	1.085	1.069	0.957	0.995
155.0	1.004	1.134	1.099	1.284	1.245	1.284	1.099	1.134	1.004	1.033
157.5	1.243	1.175	1.024	1.251	1.084	1.251	1.024	1.175	1.243	1.109
160.0	1.291	1.228	1.111	1.275	1.136	1.275	1.111	1.228	1.291	1.134
162.5	1.258	1.270	1.266	1.331	1.144	1.331	1.266	1.270	1.258	1.133
165.0	1.010	1.174	1.294	1.252	0.969	1.252	1.294	1.174	1.010	1.228
167.5	0.926	1.077	1.229	1.269	1.053	1.269	1.229	1.077	0.926	1.199
170.0	1.005	1.000	1.062	1.362	1.242	1.362	1.062	1.000	1.005	1.038
172.5	1.122	1.021	0.852	1.144	1.425	1.144	0.852	1.021	1.122	0.988
175.0	1.160	1.319	0.930	0.895	1.495	0.895	0.930	1.319	1.160	1.141
177.5	1.129	1.045	1.245	1.176	1.270	1.176	1.245	1.045	1.129	1.084
180.0	1.092	1.092	1.092	1.092	1.092	1.092	1.092	1.092	1.092	1.092

**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	375.751	375.751	375.751	375.751	375.751	375.751	375.751
2.5	376.541	374.980	371.043	374.980	376.541	374.793	376.117
5.0	365.520	363.902	361.454	363.902	365.520	364.258	365.459
7.5	353.853	351.889	349.657	351.889	353.853	353.195	354.342
10.0	336.404	334.999	333.571	334.999	336.404	336.670	337.600
12.5	317.944	316.808	316.584	316.808	317.944	319.668	320.104
15.0	293.651	293.830	293.393	293.830	293.651	294.254	297.471
17.5	268.857	269.794	269.350	269.794	268.857	268.776	273.900
20.0	242.040	242.813	242.074	242.813	242.040	242.724	245.864
22.5	214.566	214.621	214.535	214.621	214.566	216.314	217.842
25.0	185.138	183.757	183.416	183.757	185.138	187.911	189.865
27.5	157.223	155.008	152.459	155.008	157.223	160.159	162.795
30.0	132.861	129.945	129.409	129.945	132.861	134.937	138.090
32.5	111.116	108.832	107.076	108.832	111.116	112.109	115.959
35.0	94.238	93.359	93.501	93.359	94.238	96.456	99.177
37.5	82.308	82.926	81.266	82.926	82.308	83.511	85.874
40.0	77.727	78.346	78.124	78.346	77.727	76.803	78.306
42.5	73.682	74.902	75.182	74.902	73.682	70.969	73.050
45.0	70.298	72.526	73.167	72.526	70.298	66.731	70.901
47.5	65.665	68.335	70.320	68.335	65.665	62.282	66.957
50.0	59.787	62.735	64.634	62.735	59.787	57.518	61.035
52.5	54.249	57.357	59.040	57.357	54.249	52.613	55.480
55.0	48.984	52.119	53.681	52.119	48.984	47.539	50.251
57.5	44.651	47.968	48.714	47.968	44.651	42.748	45.854
60.0	40.941	44.360	44.548	44.360	40.941	38.237	42.064
62.5	38.582	42.672	42.856	42.672	38.582	36.360	39.559
65.0	36.945	41.755	45.240	41.755	36.945	36.621	37.819

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**CANDELA TABULATION - (Cont.)**

67.5	40.855	47.201	49.479	47.201	40.855	39.759	42.595
70.0	47.093	54.605	56.172	54.605	47.093	44.777	50.444
72.5	53.092	61.457	62.635	61.457	53.092	50.394	57.264
75.0	59.011	68.185	68.849	68.185	59.011	56.327	63.701
77.5	63.099	72.776	73.278	72.776	63.099	60.049	67.104
80.0	66.738	77.033	76.115	77.033	66.738	62.837	69.640
82.5	65.066	75.750	76.168	75.750	65.066	61.829	68.428
85.0	62.484	73.957	74.214	73.957	62.484	59.595	66.450
87.5	57.692	68.507	70.196	68.507	57.692	56.393	62.222
90.0	52.656	62.935	64.969	62.935	52.656	52.952	57.675
92.5	48.900	57.640	59.960	57.640	48.900	48.917	53.379
95.0	45.210	52.457	55.055	52.457	45.210	44.779	49.103
97.5	42.556	48.818	51.220	48.818	42.556	41.470	46.130
100.0	39.772	44.955	47.776	44.955	39.772	38.247	43.105
102.5	34.647	39.411	42.095	39.411	34.647	34.334	37.345
105.0	29.616	33.555	35.775	33.555	29.616	30.381	31.596
107.5	25.384	26.112	27.821	26.112	25.384	25.357	25.976
110.0	21.198	18.715	19.533	18.715	21.198	20.424	20.233
112.5	17.259	11.483	12.080	11.483	17.259	16.970	13.679
115.0	13.418	5.617	4.736	5.617	13.418	13.620	7.884
117.5	9.965	3.473	2.782	3.473	9.965	11.184	5.594
120.0	6.875	1.880	1.240	1.880	6.875	8.861	3.766
122.5	4.845	1.483	1.315	1.483	4.845	7.153	3.480
125.0	3.078	1.204	1.410	1.204	3.078	5.581	3.174
127.5	1.918	1.129	1.219	1.129	1.918	4.518	2.815
130.0	1.125	1.047	1.044	1.047	1.125	3.553	2.464
132.5	1.002	0.955	1.054	0.955	1.002	2.878	2.132
135.0	0.947	0.985	1.096	0.985	0.947	2.207	1.784
137.5	0.990	1.155	1.349	1.155	0.990	1.545	1.410
140.0	1.021	1.170	1.490	1.170	1.021	1.138	1.279
142.5	1.037	1.041	1.138	1.041	1.037	1.189	1.468
145.0	1.013	1.031	0.868	1.031	1.013	1.172	1.500
147.5	0.950	1.113	0.874	1.113	0.950	1.058	1.364
150.0	0.934	1.152	0.943	1.152	0.934	0.995	1.180
152.5	0.956	1.165	1.173	1.165	0.956	0.995	0.957
155.0	0.921	1.028	1.296	1.028	0.921	1.033	1.004
157.5	0.850	0.819	1.211	0.819	0.850	1.109	1.243
160.0	1.053	0.905	1.181	0.905	1.053	1.134	1.291
162.5	1.313	1.047	1.206	1.047	1.313	1.133	1.258
165.0	0.948	1.028	1.314	1.028	0.948	1.228	1.010
167.5	0.882	1.143	1.384	1.143	0.882	1.199	0.926
170.0	1.045	1.217	1.340	1.217	1.045	1.038	1.005
172.5	1.068	0.921	1.173	0.921	1.068	0.988	1.122
175.0	0.899	1.199	1.230	1.199	0.899	1.141	1.160
177.5	1.031	1.174	0.990	1.174	1.031	1.084	1.129
180.0	1.092	1.092	1.092	1.092	1.092	1.092	1.092

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Zone	Lumens	%Lamp	%Fixt
0-20	115.81	N.A.	17.90
0-30	201.31	N.A.	31.10
0-40	263.18	N.A.	40.70
0-60	362.00	N.A.	55.90
0-80	467.92	N.A.	72.30
0-90	539.83	N.A.	83.40
10-90	505.83	N.A.	78.20
20-40	147.38	N.A.	22.80
20-50	200.73	N.A.	31.00
40-70	140.08	N.A.	21.60
60-80	105.92	N.A.	16.40
70-80	64.66	N.A.	10.00
80-90	71.91	N.A.	11.10
90-110	89.44	N.A.	13.80
90-120	101.24	N.A.	15.60
90-130	104.42	N.A.	16.10
90-150	106.31	N.A.	16.40
90-180	107.24	N.A.	16.60
110-180	17.80	N.A.	2.80
0-180	647.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	34.00
10-20	81.81
20-30	85.51
30-40	61.87
40-50	53.36
50-60	45.46
60-70	41.26
70-80	64.66
80-90	71.91
90-100	55.04
100-110	34.40
110-120	11.80
120-130	3.18
130-140	1.17
140-150	0.71
150-160	0.50
160-170	0.33
170-180	0.10

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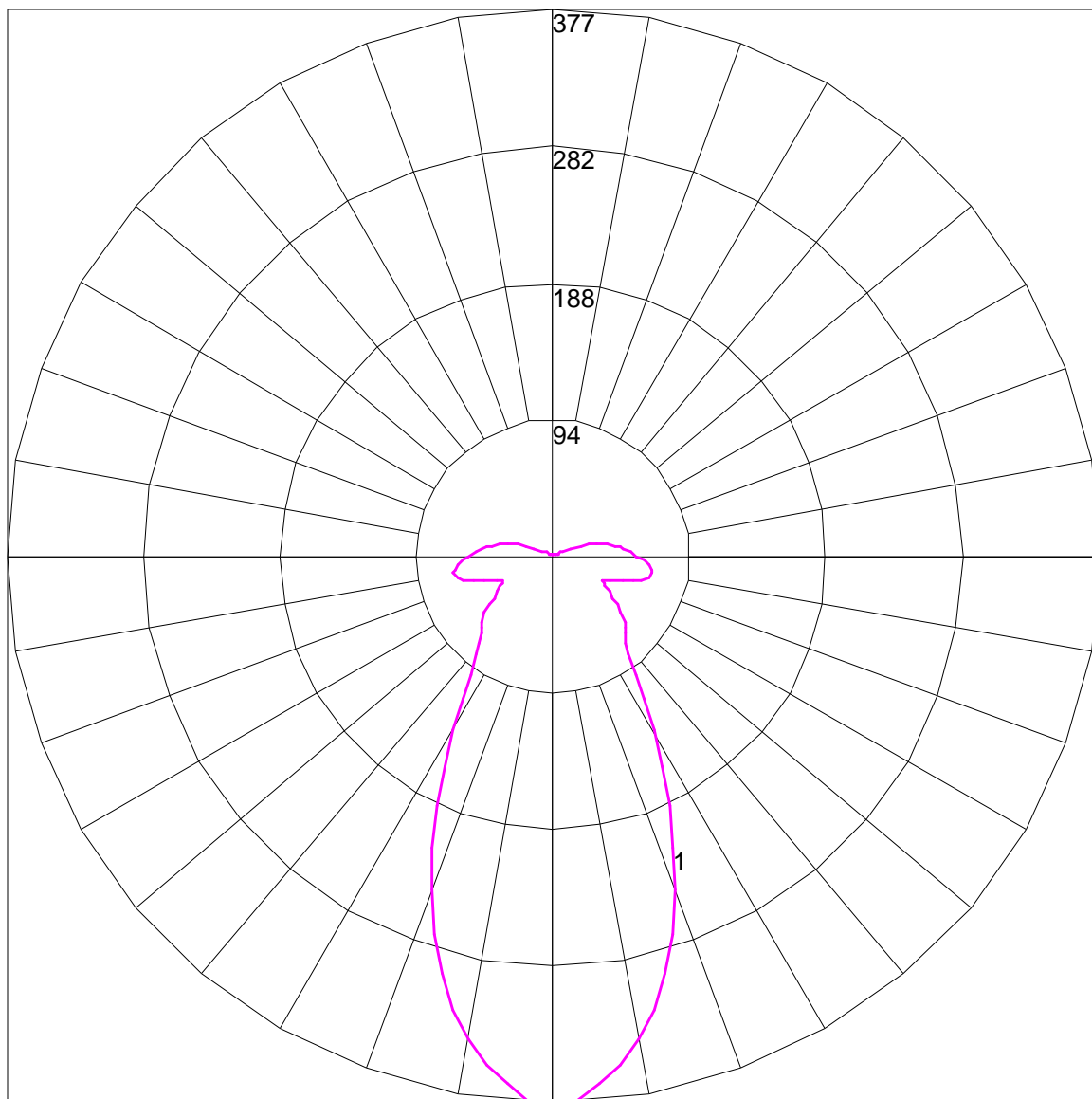
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	111	111	111	102	102	102	94	94	94	87	87	87	83
1	102	95	90	85	97	91	87	82	84	80	76	77	74	71	71	68	66	63
2	92	83	76	69	88	80	73	67	73	68	63	68	63	59	62	59	55	52
3	85	74	65	58	81	71	63	57	66	59	54	61	55	51	56	52	48	45
4	78	66	58	51	75	64	56	50	59	53	47	55	49	45	51	46	42	40
5	73	60	52	45	70	58	50	44	54	47	42	51	45	40	47	42	38	36
6	68	55	47	40	65	53	45	40	50	43	38	47	41	36	44	39	35	32
7	64	51	42	37	61	49	41	36	46	39	35	43	38	33	41	36	32	30
8	60	47	39	33	57	46	38	33	43	36	32	41	35	31	38	33	29	27
9	56	44	36	31	54	43	35	30	40	34	29	38	32	28	36	31	27	26
10	53	41	34	29	51	40	33	28	38	32	27	36	30	26	34	29	26	24

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00427\_3 ~ TT1010GV-27L35K-EX-FJ1-MB.IES

POLAR GRAPH



Maximum Candela = 376.541 Located At Horizontal Angle = 225, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)