

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00731 ~ SP1010GV-15L35K-EX-TF1-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00731_M-15L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 5/29/2018

[UPDATE] 11/13/2018

[LUMCAT] SP1010GV-15L-35K-EX-TF1-MWI

[LUMINAIRE] Nom. 10" diam. x 10" H Studio Pendant Specplume Decorative luminaire

[OTHER] Reflector: Matte white interior finish

[OTHER] Beam Angle: 81.8 degrees

[LAMPCAT] N/A

[LAMP] N/A, Gen3

[OTHER] Regressed 3" Diffuse Domed Glass

[OTHER] Total Luminaire Watts is approximate

[OTHER] CCT Multipliers: 27K x 0.971, 30K x 0.985, 40K x 1.03

[OTHER] This report prepared by Spectrum Lighting, scaled from 27L

[_CRI] 85+

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	963
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.83 ft (Diameter)
Luminous Width (90-270)	0.83 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00731 ~ SP1010GV-15L35K-EX-TF1-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4630	4806	5019
55	3225	3265	3374
65	2962	2985	3093
75	2532	2470	2612
85	977	1094	1130

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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	512.865	512.865	512.865	512.865	512.865	512.865	512.865	512.865	512.865	512.865
2.5	509.828	510.258	509.388	511.711	511.926	512.383	512.801	513.492	513.577	512.721
5.0	505.653	505.929	505.943	508.908	509.590	510.948	511.844	512.785	512.766	511.400
7.5	500.085	500.693	501.475	504.829	505.698	507.733	508.153	509.331	510.240	508.479
10.0	493.155	495.230	495.913	499.535	501.192	503.443	503.732	505.467	506.808	504.692
12.5	484.844	487.315	488.386	493.144	496.218	498.093	498.899	500.254	501.053	499.305
15.0	476.418	478.966	480.714	485.907	489.028	491.214	493.984	494.098	494.302	492.664
17.5	467.896	470.729	472.830	478.250	480.482	483.116	485.983	485.589	486.229	484.139
20.0	459.026	462.504	464.775	470.333	471.743	474.196	477.592	476.811	477.723	474.977
22.5	449.925	454.311	456.517	462.123	462.908	464.738	468.382	467.498	467.713	465.043
25.0	440.737	446.118	447.994	453.764	453.484	454.939	459.119	457.519	457.333	454.625
27.5	431.502	435.106	439.215	442.883	443.829	444.959	448.235	446.475	445.856	443.718
30.0	417.602	423.583	426.446	431.000	430.279	430.676	436.970	432.930	434.188	430.139
32.5	401.704	402.942	410.515	412.074	415.573	414.612	416.879	416.166	415.596	414.382
35.0	364.228	378.949	377.028	391.029	380.925	381.651	394.243	386.445	396.266	383.207
37.5	319.667	325.509	332.351	341.192	341.910	343.248	346.348	343.038	346.637	341.908
40.0	262.110	271.640	275.684	284.792	281.274	284.912	296.788	289.802	295.500	287.760
42.5	201.273	215.374	212.739	228.638	217.393	221.764	236.748	228.040	238.070	226.668
45.0	164.704	165.434	170.968	172.521	178.570	181.919	182.668	182.971	182.298	184.059
47.5	132.380	140.171	137.886	146.024	141.862	145.922	154.020	149.590	155.102	149.299
50.0	116.803	117.856	119.221	122.110	124.654	127.103	128.693	127.672	129.338	129.021
52.5	103.080	104.399	105.066	108.486	108.141	110.111	113.738	112.277	115.926	113.454
55.0	93.062	92.508	94.229	95.311	97.372	98.732	100.435	100.387	103.014	101.560
57.5	83.248	84.230	84.183	86.511	86.892	87.647	91.212	90.099	92.866	90.584
60.0	76.361	76.689	77.101	77.898	80.065	80.694	82.998	82.508	83.456	83.031
62.5	69.494	70.487	70.501	71.738	73.170	73.741	76.736	75.870	76.890	76.068
65.0	62.989	63.750	63.476	65.387	65.767	66.771	69.620	68.222	69.925	67.877
67.5	56.206	56.239	56.389	57.760	58.252	59.487	61.211	60.307	61.863	59.563
70.0	47.928	48.372	48.374	49.877	50.346	50.595	52.522	51.779	53.102	51.447
72.5	40.120	40.224	40.319	41.400	42.272	41.756	43.599	43.065	43.389	43.016
75.0	32.968	33.024	32.167	33.026	34.015	32.990	35.176	33.836	34.760	33.823
77.5	24.239	25.275	24.246	24.883	25.468	25.094	26.924	25.433	26.315	25.814
80.0	16.056	16.617	16.560	17.548	17.367	17.945	18.867	17.817	17.444	18.034
82.5	9.273	10.488	9.641	10.604	10.226	11.102	11.381	11.074	10.917	10.483
85.0	4.283	4.226	4.799	4.747	4.954	4.768	5.448	5.108	5.264	5.258
87.5	1.561	1.610	1.564	1.761	2.168	2.195	2.385	2.106	1.903	2.440
90.0	0.475	0.230	0.584	0.269	0.519	0.813	0.335	0.546	0.272	0.623
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	512.865	512.865	512.865	512.865	512.865	512.865	512.865
2.5	512.791	512.900	512.162	510.985	510.439	510.336	509.828
5.0	512.316	511.140	510.776	508.745	507.314	506.592	505.653
7.5	509.440	508.192	507.475	504.582	502.655	501.368	500.085
10.0	505.937	503.625	502.808	499.372	497.207	496.011	493.155
12.5	500.191	498.126	496.307	493.345	490.364	489.125	484.844
15.0	494.025	491.246	488.723	486.964	482.719	482.139	476.418
17.5	485.853	483.729	480.492	478.772	473.939	472.599	467.896
20.0	477.445	474.979	471.957	469.963	464.880	463.074	459.026
22.5	467.329	465.788	462.588	460.117	455.499	453.745	449.925
25.0	457.104	455.799	452.917	450.009	445.507	444.251	440.737
27.5	446.089	445.592	441.824	438.737	434.935	433.482	431.502
30.0	434.690	431.267	430.331	427.250	419.961	421.154	417.602
32.5	415.426	416.129	409.104	404.781	401.601	401.041	401.704
35.0	393.369	379.467	385.921	381.046	365.592	373.893	364.228
37.5	343.596	340.089	333.194	325.624	318.499	321.729	319.667
40.0	292.516	278.453	276.644	268.513	262.188	268.364	262.110
42.5	233.688	215.321	222.388	215.287	201.200	211.668	201.273
45.0	180.929	177.750	168.302	163.556	163.585	164.696	164.704
47.5	152.921	141.331	144.934	141.306	135.236	138.599	132.380
50.0	128.219	124.515	122.406	120.022	117.792	117.513	116.803
52.5	113.842	108.283	109.627	107.404	103.693	105.070	103.080
55.0	100.864	98.385	97.206	95.464	93.823	93.897	93.062
57.5	91.228	88.861	88.796	87.490	84.917	84.505	83.248
60.0	82.630	81.686	80.562	79.813	78.071	76.812	76.361
62.5	75.979	74.411	73.465	73.336	71.541	71.044	69.494
65.0	68.810	66.710	66.248	66.330	64.208	64.341	62.989

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CANDELA TABULATION - (Cont.)

67.5	60.871	58.893	58.545	57.811	56.750	56.788	56.206
70.0	52.144	50.783	50.378	49.320	47.645	48.930	47.928
72.5	42.776	41.961	41.383	40.867	39.152	40.916	40.120
75.0	34.089	32.515	32.993	31.800	32.063	32.610	32.968
77.5	25.830	25.120	24.954	23.253	24.508	24.583	24.239
80.0	18.184	17.884	17.231	16.636	16.660	17.013	16.056
82.5	11.404	11.122	9.859	9.950	9.280	10.222	9.273
85.0	5.607	5.225	5.375	4.556	4.549	4.254	4.283
87.5	2.380	1.710	2.048	1.733	1.703	1.677	1.561
90.0	0.282	0.540	0.617	0.243	0.454	0.226	0.475
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	185.94	N.A.	19.30
0-30	394.20	N.A.	40.90
0-40	625.14	N.A.	64.90
0-60	855.15	N.A.	88.80
0-80	955.58	N.A.	99.30
0-90	962.69	N.A.	100.00
10-90	914.34	N.A.	95.00
20-40	439.20	N.A.	45.60
20-50	580.86	N.A.	60.30
40-70	295.18	N.A.	30.70
60-80	100.43	N.A.	10.40
70-80	35.26	N.A.	3.70
80-90	7.12	N.A.	0.70
90-110	0.06	N.A.	0.00
90-120	0.06	N.A.	0.00
90-130	0.06	N.A.	0.00
90-150	0.06	N.A.	0.00
90-180	0.06	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	962.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.36
10-20	137.58
20-30	208.26
30-40	230.94
40-50	141.66
50-60	88.35
60-70	65.17
70-80	35.26
80-90	7.12
90-100	0.06
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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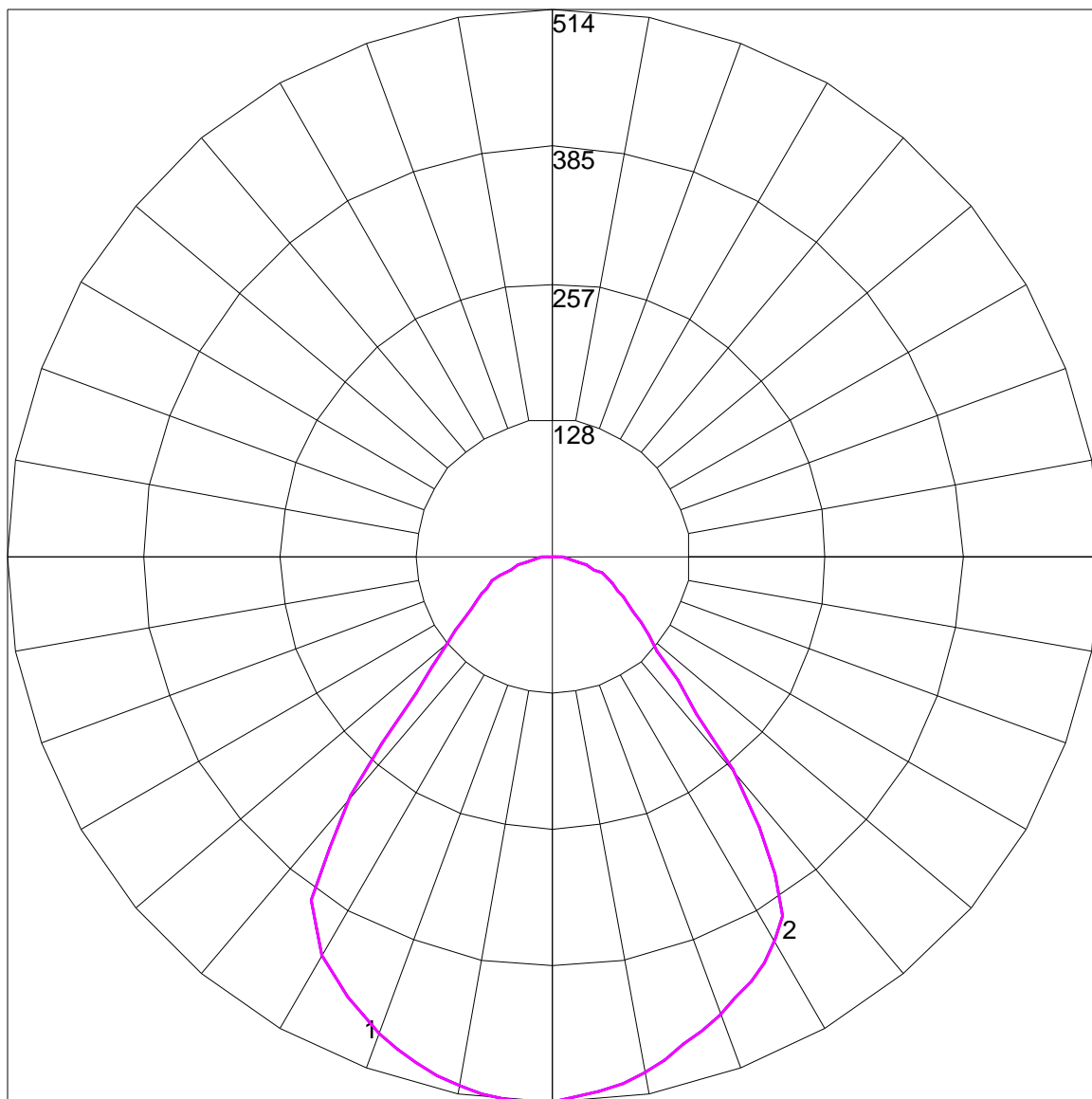
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	82	87	84	81	84	82	79	77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48
7	72	60	52	46	70	59	52	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40
9	63	51	44	39	62	50	43	38	49	43	38	48	42	38	47	42	38	36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33

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POLAR GRAPH



Maximum Candela = 513.577 Located At Horizontal Angle = 180, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)