

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00731 ~ SP1010GV-27L35K-EX-TF1-MWI.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] SP-00731_M-27L

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

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 5/29/2018

[UPDATE] 11/13/2018

[LUMCAT] SP1010GV-27L-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

[_CCTMULT] 27K x 0.971, 30K x 0.985, 40K x 1.03

[_LAMPMULT] 15L x 0.573

[OTHER] This report prepared by Spectrum Lighting

[_CRI] 85+

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1680
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	18
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

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8079	8387	8760
55	5628	5698	5889
65	5170	5210	5398
75	4418	4311	4559
85	1705	1910	1972

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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	895.052	895.052	895.052	895.052	895.052	895.052	895.052	895.052	895.052	895.052
2.5	889.752	890.502	888.985	893.038	893.413	894.212	894.940	896.147	896.295	894.802
5.0	882.466	882.948	882.972	888.147	889.336	891.707	893.271	894.913	894.879	892.496
7.5	872.748	873.809	875.175	881.028	882.544	886.095	886.829	888.885	890.470	887.397
10.0	860.654	864.275	865.468	871.789	874.680	878.608	879.114	882.141	884.482	880.790
12.5	846.150	850.463	852.332	860.635	866.000	869.272	870.679	873.043	874.437	871.388
15.0	831.444	835.892	838.942	848.006	853.452	857.268	862.101	862.300	862.655	859.797
17.5	816.572	821.517	825.184	834.643	838.538	843.135	848.138	847.451	848.567	844.920
20.0	801.092	807.163	811.125	820.825	823.285	827.566	833.494	832.131	833.722	828.930
22.5	785.209	792.863	796.714	806.497	807.867	811.062	817.420	815.878	816.253	811.593
25.0	769.174	778.565	781.840	791.910	791.420	793.960	801.255	798.463	798.137	793.411
27.5	753.058	759.347	766.519	772.919	774.570	776.543	782.259	779.189	778.109	774.377
30.0	728.799	739.237	744.233	752.182	750.923	751.616	762.601	755.550	757.746	750.679
32.5	701.055	703.215	716.431	719.152	725.258	723.582	727.538	726.293	725.298	723.179
35.0	635.651	661.342	657.990	682.425	664.791	666.058	688.032	674.423	691.564	668.773
37.5	557.884	568.078	580.019	595.448	596.702	599.037	604.447	598.670	604.952	596.698
40.0	457.435	474.067	481.124	497.020	490.879	497.229	517.955	505.763	515.706	502.199
42.5	351.261	375.870	371.273	399.019	379.394	387.023	413.173	397.976	415.480	395.582
45.0	287.442	288.716	298.373	301.084	311.641	317.485	318.792	319.321	318.146	321.219
47.5	231.029	244.627	240.639	254.841	247.577	254.663	268.796	261.064	270.683	260.556
50.0	203.844	205.683	208.065	213.106	217.545	221.820	224.596	222.813	225.722	225.168
52.5	179.896	182.198	183.361	189.329	188.727	192.166	198.496	195.946	202.315	198.000
55.0	162.413	161.446	164.448	166.337	169.934	172.307	175.279	175.196	179.780	177.243
57.5	145.285	146.999	146.916	150.979	151.644	152.961	159.183	157.240	162.070	158.088
60.0	133.266	133.838	134.556	135.948	139.730	140.828	144.848	143.993	145.647	144.905
62.5	121.281	123.014	123.038	125.198	127.697	128.693	133.920	132.408	134.188	132.753
65.0	109.928	111.256	110.778	114.113	114.777	116.528	121.500	119.061	122.034	118.459
67.5	98.091	98.148	98.410	100.803	101.662	103.817	106.826	105.248	107.963	103.949
70.0	83.643	84.419	84.423	87.045	87.864	88.298	91.661	90.365	92.673	89.785
72.5	70.017	70.200	70.364	72.251	73.774	72.873	76.089	75.156	75.722	75.072
75.0	57.536	57.634	56.137	57.636	59.363	57.574	61.390	59.050	60.664	59.028
77.5	42.302	44.110	42.314	43.425	44.446	43.795	46.987	44.386	45.924	45.050
80.0	28.021	29.001	28.901	30.626	30.308	31.318	32.928	31.094	30.443	31.472
82.5	16.182	18.304	16.825	18.507	17.847	19.375	19.862	19.326	19.053	18.296
85.0	7.475	7.375	8.375	8.285	8.646	8.321	9.509	8.914	9.186	9.176
87.5	2.724	2.810	2.730	3.074	3.784	3.830	4.162	3.675	3.321	4.258
90.0	0.829	0.401	1.020	0.469	0.905	1.418	0.584	0.952	0.475	1.088
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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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	895.052	895.052	895.052	895.052	895.052	895.052	895.052
2.5	894.922	895.113	893.826	891.771	890.818	890.639	889.752
5.0	894.095	892.042	891.407	887.862	885.365	884.105	882.466
7.5	889.075	886.898	885.646	880.597	877.234	874.988	872.748
10.0	882.962	878.926	877.501	871.504	867.725	865.639	860.654
12.5	872.934	869.330	866.155	860.987	855.784	853.621	846.150
15.0	862.172	857.323	852.920	849.850	842.442	841.429	831.444
17.5	847.910	844.204	838.554	835.553	827.118	824.781	816.572
20.0	833.237	828.933	823.659	820.179	811.309	808.158	801.092
22.5	815.582	812.894	807.308	802.996	794.936	791.876	785.209
25.0	797.739	795.461	790.430	785.357	777.499	775.308	769.174
27.5	778.515	777.648	771.072	765.685	759.048	756.513	753.058
30.0	758.621	752.647	751.014	745.638	732.917	734.999	728.799
32.5	725.002	726.228	713.968	706.423	700.875	699.896	701.055
35.0	686.507	662.247	673.510	665.002	638.031	652.518	635.651
37.5	599.643	593.523	581.490	568.279	555.844	561.481	557.884
40.0	510.500	485.956	482.799	468.610	457.570	468.349	457.435
42.5	407.832	375.779	388.111	375.719	351.134	369.403	351.261
45.0	315.758	310.210	293.720	285.439	285.488	287.427	287.442
47.5	266.878	246.651	252.940	246.607	236.013	241.883	231.029
50.0	223.769	217.304	213.623	209.462	205.570	205.083	203.844
52.5	198.676	188.976	191.321	187.441	180.965	183.369	179.896
55.0	176.028	171.702	169.644	166.604	163.740	163.869	162.413
57.5	159.210	155.080	154.966	152.687	148.196	147.479	145.285
60.0	144.206	142.558	140.597	139.289	136.249	134.053	133.266
62.5	132.598	129.862	128.210	127.986	124.853	123.986	121.281
65.0	120.087	116.422	115.616	115.758	112.057	112.288	109.928

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CANDELA TABULATION - (Cont.)

67.5	106.233	102.779	102.174	100.892	99.041	99.107	98.091
70.0	91.002	88.626	87.920	86.073	83.150	85.393	83.643
72.5	74.653	73.231	72.221	71.321	68.328	71.407	70.017
75.0	59.491	56.745	57.580	55.497	55.956	56.911	57.536
77.5	45.079	43.840	43.549	40.581	42.772	42.902	42.302
80.0	31.735	31.212	30.072	29.033	29.076	29.691	28.021
82.5	19.902	19.410	17.205	17.364	16.196	17.840	16.182
85.0	9.784	9.120	9.380	7.951	7.938	7.424	7.475
87.5	4.154	2.984	3.575	3.024	2.971	2.926	2.724
90.0	0.493	0.942	1.077	0.424	0.792	0.395	0.829
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	324.50	N.A.	19.30
0-30	687.95	N.A.	40.90
0-40	1090.99	N.A.	64.90
0-60	1492.41	N.A.	88.80
0-80	1667.67	N.A.	99.30
0-90	1680.09	N.A.	100.00
10-90	1595.7	N.A.	95.00
20-40	766.49	N.A.	45.60
20-50	1013.72	N.A.	60.30
40-70	515.15	N.A.	30.70
60-80	175.26	N.A.	10.40
70-80	61.53	N.A.	3.70
80-90	12.42	N.A.	0.70
90-110	0.11	N.A.	0.00
90-120	0.11	N.A.	0.00
90-130	0.11	N.A.	0.00
90-150	0.11	N.A.	0.00
90-180	0.11	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1680.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	84.39
10-20	240.11
20-30	363.45
30-40	403.04
40-50	247.23
50-60	154.19
60-70	113.73
70-80	61.53
80-90	12.42
90-100	0.11
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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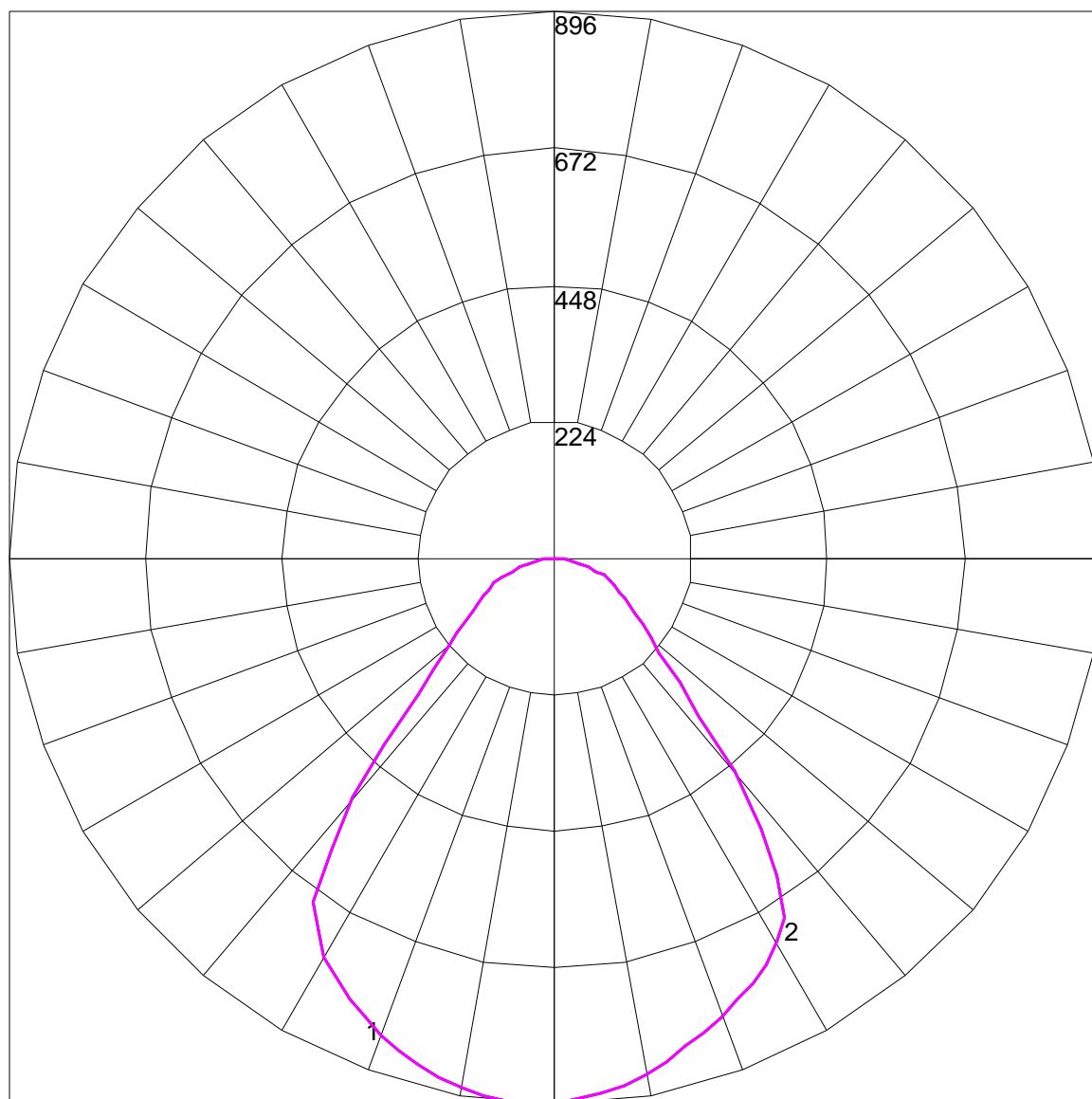
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	92	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	56	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 = 896.295 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)