

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00712 ~ HT1813GV-27L35K-EX-TF2-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00712_M-27L

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

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 7/17/2018

[UPDATE] 9/12/2018

[LUMCAT] HT1813GV-27L-35K-EX-TF2-MWI

[LUMINAIRE] Nom. 18" Diam x 13" H, High Top Pendant

[OTHER] Reflector: Matte White interior finish

[OTHER] Beam Angle: 97.4 degrees

[OTHER] 4" Frosted (Inside) Shallow Dome Diffuser

[LAMP] N/A, Gen3

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

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

[OTHER] This report generated by Spectrum Lighting, scaled from 55L/(0.56)

[CRI]85+

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2158
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.50 ft (Diameter)
Luminous Width (90-270)	1.50 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	4856	5044	5149
55	2095	2186	2285
65	1737	1738	1734
75	1536	1616	1657
85	322	431	538

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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	992.073	992.073	992.073	992.073	992.073	992.073	992.073	992.073	992.073	992.073
2.5	987.852	987.954	988.597	989.172	987.941	990.168	989.911	990.659	990.875	990.203
5.0	983.225	983.856	984.105	984.547	982.680	987.031	987.026	987.741	989.477	988.187
7.5	975.206	975.728	974.817	976.567	974.790	979.069	980.927	982.001	983.181	982.673
10.0	966.074	967.301	965.007	967.423	965.132	970.696	973.708	973.991	976.325	975.854
12.5	954.297	953.862	952.567	954.585	952.724	959.312	962.671	963.258	965.157	964.269
15.0	940.423	940.052	938.875	940.844	938.414	947.018	950.212	949.573	953.653	951.624
17.5	922.831	923.284	921.075	923.053	921.867	930.696	934.350	933.192	936.923	936.297
20.0	903.858	905.807	902.401	904.664	903.280	913.404	917.326	915.187	919.982	919.820
22.5	883.046	885.004	881.633	883.727	882.815	893.239	898.226	896.056	901.030	901.219
25.0	861.938	863.914	860.189	862.626	861.171	872.718	877.615	875.364	881.620	881.921
27.5	840.526	841.923	837.556	839.893	838.701	851.429	854.952	853.839	859.861	861.629
30.0	817.995	819.628	814.558	817.124	815.090	829.043	831.894	831.519	837.840	840.530
32.5	794.579	796.655	791.080	793.851	790.881	804.882	808.431	808.890	814.946	818.557
35.0	770.996	773.536	767.601	770.565	767.502	781.113	785.507	786.213	791.999	795.950
37.5	747.316	750.173	744.122	747.195	744.451	757.824	763.014	763.524	768.922	772.820
40.0	711.637	718.166	712.865	720.703	716.773	733.316	739.514	739.642	744.524	747.899
42.5	670.581	675.054	675.500	681.562	687.834	707.641	715.400	715.549	717.779	721.832
45.0	564.274	589.312	586.106	620.105	598.344	647.776	657.794	654.227	666.758	658.101
47.5	436.802	461.905	465.914	497.069	498.485	563.031	585.073	589.546	583.314	576.444
50.0	335.313	353.759	359.154	382.954	381.084	451.653	468.453	457.704	477.867	457.618
52.5	239.406	260.126	258.453	286.904	262.049	325.738	337.479	327.853	349.445	326.111
55.0	197.478	204.135	206.051	214.563	215.360	249.586	262.364	259.507	262.435	254.698
57.5	162.376	169.796	169.129	178.518	171.098	193.964	199.663	195.854	208.324	197.691
60.0	145.550	148.563	148.642	151.541	150.285	163.020	169.007	168.510	172.897	169.170
62.5	129.777	132.869	131.633	135.072	130.657	139.199	142.464	143.997	148.665	144.729
65.0	120.642	121.979	120.716	122.068	120.418	126.672	130.278	132.158	133.998	132.986
67.5	111.033	112.537	110.567	112.124	110.059	116.223	118.978	120.667	123.671	122.110
70.0	98.340	99.993	99.461	100.696	99.284	105.691	109.709	110.055	112.646	112.047
72.5	83.492	86.323	86.465	88.544	86.177	94.266	98.750	97.988	100.996	99.787
75.0	65.321	69.249	68.745	71.982	70.492	80.085	84.476	84.642	85.697	83.019
77.5	48.596	51.344	52.099	55.207	53.413	64.240	67.711	66.496	68.508	64.884
80.0	32.461	33.989	36.076	38.360	36.950	47.700	50.434	49.182	50.423	47.373
82.5	16.983	18.981	20.340	22.003	21.281	31.175	33.651	33.185	33.621	31.560
85.0	4.616	5.540	6.166	7.555	7.702	15.337	17.733	17.475	17.731	16.525
87.5	0.728	0.744	1.115	0.976	1.199	4.105	4.391	4.668	4.699	3.712
90.0	0.650	0.543	0.520	0.254	0.371	0.556	0.632	0.468	0.153	0.552
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	992.073	992.073	992.073	992.073	992.073	992.073	992.073
2.5	991.896	991.853	991.971	991.076	989.284	989.111	987.852
5.0	990.905	989.629	990.579	988.734	985.857	984.679	983.225
7.5	984.906	984.491	985.564	980.960	977.553	977.619	975.206
10.0	978.473	977.331	979.675	972.445	968.948	969.630	966.074
12.5	967.949	967.746	969.101	959.449	955.697	956.862	954.297
15.0	956.611	955.362	957.830	945.492	942.019	942.925	940.423
17.5	941.026	940.424	941.111	927.923	924.489	925.101	922.831
20.0	924.635	922.653	924.002	909.516	906.197	906.703	903.858
22.5	905.529	902.894	903.373	888.859	884.127	885.970	883.046
25.0	885.925	882.135	882.553	867.178	861.758	865.074	861.938
27.5	865.124	860.842	859.109	843.503	838.379	841.311	840.526
30.0	843.972	838.893	835.597	819.596	814.791	817.588	817.995
32.5	822.190	816.688	811.639	795.349	790.707	794.421	794.579
35.0	800.240	794.362	787.963	771.487	766.338	770.969	770.996
37.5	778.062	772.004	765.412	748.060	741.468	745.654	747.316
40.0	754.099	747.718	740.944	718.138	708.217	715.220	711.637
42.5	728.284	723.089	711.158	682.602	663.678	664.038	670.581
45.0	668.574	650.012	658.139	598.549	577.475	590.864	564.274
47.5	581.694	572.564	557.830	482.743	448.630	457.006	436.802
50.0	466.934	438.698	449.783	374.187	342.906	341.026	335.313
52.5	335.314	307.261	330.009	269.274	255.443	261.253	239.406
55.0	256.553	247.279	244.895	213.665	202.300	201.169	197.478
57.5	202.190	191.307	200.126	175.965	169.898	171.226	162.376
60.0	170.658	166.362	167.746	154.282	149.938	148.716	145.550
62.5	146.644	143.708	146.500	136.562	135.531	134.820	129.777
65.0	133.371	131.818	131.961	124.912	123.800	122.811	120.642

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CANDELA TABULATION - (Cont.)

67.5	122.439	120.299	121.944	114.225	112.929	112.490	111.033
70.0	111.798	109.719	110.611	101.812	99.683	100.022	98.340
72.5	99.793	96.424	98.590	88.009	85.360	86.509	83.492
75.0	83.011	80.741	81.100	70.428	67.376	68.339	65.321
77.5	65.724	62.708	63.145	52.148	49.677	50.078	48.596
80.0	48.176	45.670	45.253	34.551	32.807	32.363	32.461
82.5	30.899	29.420	29.360	18.634	17.569	17.828	16.983
85.0	15.436	13.579	12.245	4.951	4.130	4.123	4.616
87.5	3.426	2.442	2.414	0.893	0.663	0.779	0.728
90.0	0.304	0.421	0.533	0.432	0.798	0.202	0.650
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	360.65	N.A.	16.70
0-30	762.48	N.A.	35.30
0-40	1251.04	N.A.	58.00
0-60	1935.68	N.A.	89.70
0-80	2142.07	N.A.	99.20
0-90	2158.19	N.A.	100.00
10-90	2064.51	N.A.	95.70
20-40	890.40	N.A.	41.30
20-50	1353.87	N.A.	62.70
40-70	811.94	N.A.	37.60
60-80	206.40	N.A.	9.60
70-80	79.09	N.A.	3.70
80-90	16.12	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	2158.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	93.68
10-20	266.97
20-30	401.83
30-40	488.57
40-50	463.48
50-60	221.16
60-70	127.31
70-80	79.09
80-90	16.12
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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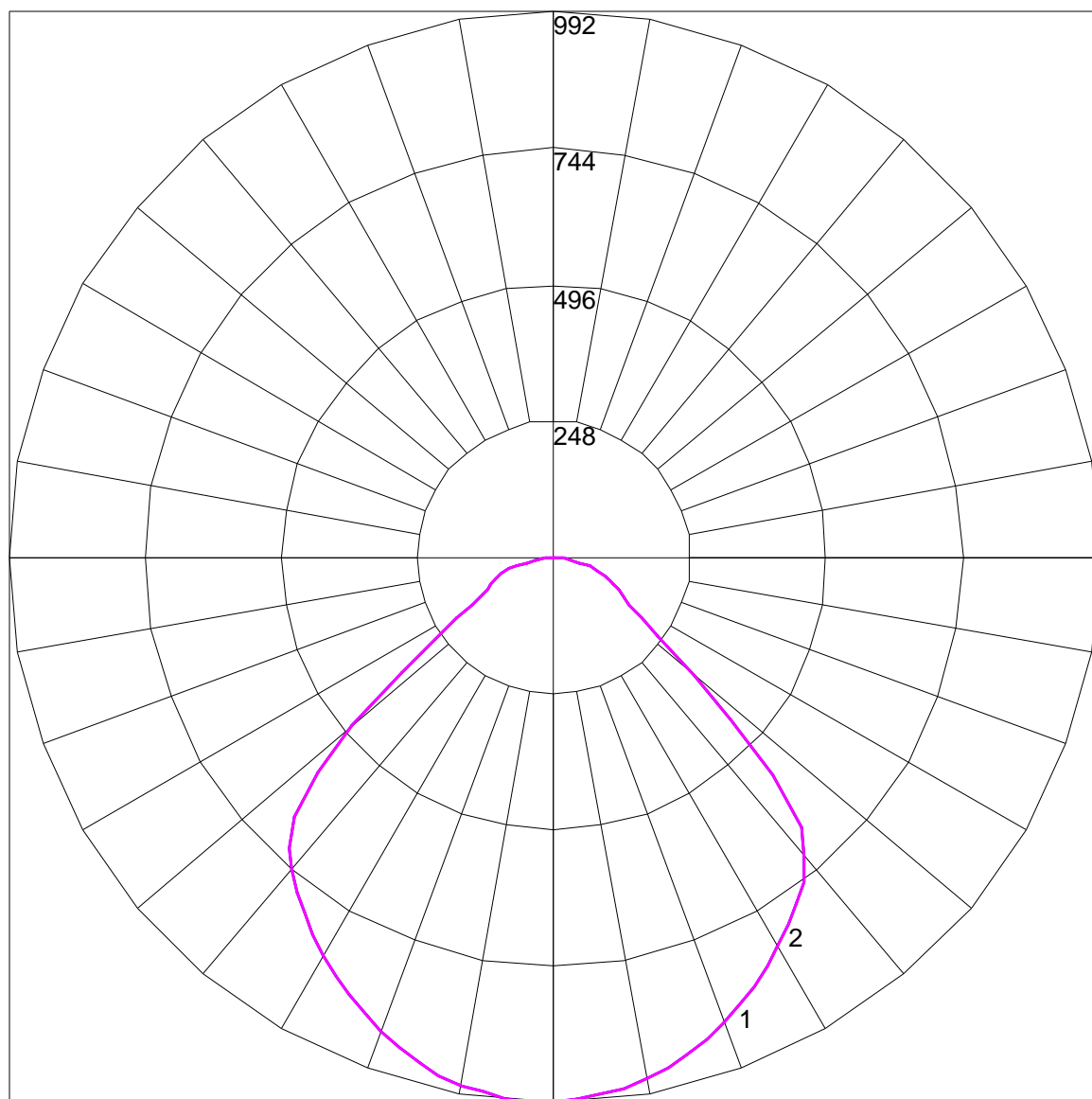
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	52
6	75	63	55	49	73	62	55	49	60	54	49	59	53	48	57	52	48	46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	39	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00712 ~ HT1813GV-27L35K-EX-TF2-MWI.IES

POLAR GRAPH



Maximum Candela = 992.073 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)