

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00712 ~ HT1813GV-15L35K-EX-TF2-MWI.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00712\_M-15L  
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 7/17/2018  
 [UPDATE] 9/12/2018  
 [LUMCAT] HT1813GV-15L-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/(0.31)  
 [CR] 85+

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1195
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	10
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00712 ~ HT1813GV-15L35K-EX-TF2-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2688	2792	2851
55	1160	1210	1265
65	962	962	960
75	850	895	917
85	178	238	298

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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	549.183	549.183	549.183	549.183	549.183	549.183	549.183	549.183	549.183	549.183
2.5	546.846	546.903	547.259	547.578	546.896	548.129	547.986	548.401	548.520	548.148
5.0	544.285	544.634	544.773	545.017	543.983	546.392	546.389	546.785	547.746	547.032
7.5	539.846	540.135	539.631	540.600	539.616	541.985	543.013	543.608	544.261	543.980
10.0	534.791	535.470	534.200	535.538	534.270	537.350	539.017	539.173	540.466	540.205
12.5	528.272	528.031	527.314	528.431	527.401	531.048	532.907	533.232	534.283	533.792
15.0	520.591	520.386	519.734	520.825	519.479	524.242	526.010	525.656	527.915	526.792
17.5	510.853	511.104	509.881	510.976	510.319	515.206	517.230	516.589	518.654	518.307
20.0	500.350	501.429	499.543	500.796	500.030	505.634	507.805	506.621	509.276	509.186
22.5	488.829	489.913	488.047	489.206	488.701	494.472	497.232	496.031	498.784	498.889
25.0	477.144	478.238	476.176	477.525	476.719	483.112	485.823	484.577	488.040	488.206
27.5	465.291	466.064	463.647	464.941	464.281	471.327	473.277	472.661	475.994	476.973
30.0	452.819	453.723	450.916	452.336	451.210	458.935	460.513	460.305	463.804	465.293
32.5	439.856	441.005	437.919	439.453	437.809	445.560	447.524	447.778	451.131	453.130
35.0	426.802	428.207	424.922	426.563	424.867	432.402	434.834	435.225	438.428	440.615
37.5	413.693	415.274	411.924	413.626	412.107	419.509	422.383	422.665	425.653	427.811
40.0	393.942	397.556	394.622	398.961	396.785	405.943	409.374	409.445	412.147	414.016
42.5	371.214	373.691	373.938	377.293	380.765	391.730	396.025	396.107	397.342	399.586
45.0	312.366	326.227	324.451	343.272	331.226	358.590	364.136	362.161	369.098	364.306
47.5	241.801	255.698	257.916	275.163	275.947	311.678	323.880	326.356	322.906	319.103
50.0	185.620	195.831	198.818	211.993	210.957	250.022	259.322	253.372	264.533	253.324
52.5	132.528	143.998	143.072	158.822	145.063	180.319	186.819	181.490	193.443	180.526
55.0	109.318	113.003	114.064	118.776	119.217	138.163	145.237	143.656	145.277	140.994
57.5	89.887	93.994	93.625	98.823	94.715	107.373	110.528	108.419	115.322	109.436
60.0	80.572	82.240	82.284	83.889	83.193	90.243	93.557	93.283	95.711	93.648
62.5	71.841	73.553	72.868	74.772	72.328	77.056	78.864	79.713	82.296	80.118
65.0	66.784	67.524	66.825	67.574	66.660	70.122	72.118	73.159	74.178	73.617
67.5	61.465	62.297	61.207	62.069	60.926	64.338	65.863	66.798	68.461	67.597
70.0	54.438	55.353	55.059	55.742	54.961	58.508	60.732	60.923	62.358	62.026
72.5	46.219	47.786	47.864	49.016	47.705	52.183	54.665	54.243	55.908	55.239
75.0	36.160	38.334	38.056	39.847	39.022	44.333	46.764	46.855	47.439	45.957
77.5	26.901	28.422	28.841	30.561	29.568	35.561	37.483	36.810	37.924	35.918
80.0	17.969	18.815	19.971	21.235	20.454	26.405	27.919	27.226	27.913	26.224
82.5	9.401	10.508	11.259	12.180	11.781	17.257	18.628	18.370	18.612	17.471
85.0	2.555	3.067	3.413	4.182	4.264	8.490	9.817	9.674	9.815	9.148
87.5	0.403	0.412	0.617	0.540	0.664	2.272	2.430	2.584	2.601	2.055
90.0	0.360	0.301	0.288	0.141	0.206	0.308	0.350	0.259	0.085	0.306
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	549.183	549.183	549.183	549.183	549.183	549.183	549.183
2.5	549.085	549.062	549.127	548.631	547.639	547.544	546.846
5.0	548.537	547.831	548.356	547.335	545.742	545.090	544.285
7.5	545.216	544.986	545.580	543.031	541.145	541.182	539.846
10.0	541.655	541.022	542.320	538.318	536.382	536.759	534.791
12.5	535.829	535.717	536.467	531.123	529.047	529.691	528.272
15.0	529.553	528.861	530.227	523.397	521.475	521.976	520.591
17.5	520.925	520.592	520.972	513.672	511.771	512.109	510.853
20.0	511.852	510.755	511.501	503.482	501.645	501.925	500.350
22.5	501.275	499.816	500.081	492.047	489.428	490.447	488.829
25.0	490.423	488.325	488.556	480.045	477.045	478.880	477.144
27.5	478.908	476.538	475.578	466.939	464.103	465.725	465.291
30.0	467.199	464.387	462.563	453.705	451.045	452.593	452.819
32.5	455.141	452.095	449.300	440.283	437.713	439.769	439.856
35.0	442.990	439.736	436.194	427.073	424.223	426.786	426.802
37.5	430.713	427.359	423.710	414.105	410.456	412.773	413.693
40.0	417.448	413.915	410.165	397.541	392.049	395.925	393.942
42.5	403.157	400.282	393.677	377.869	367.393	367.592	371.214
45.0	370.103	359.828	364.327	331.339	319.674	327.085	312.366
47.5	322.009	316.955	308.799	267.233	248.349	252.985	241.801
50.0	258.481	242.851	248.987	207.139	189.823	188.782	185.620
52.5	185.620	170.091	182.684	149.062	141.406	144.622	132.528
55.0	142.020	136.887	135.567	118.279	111.988	111.362	109.318
57.5	111.927	105.902	110.784	97.409	94.051	94.786	89.887
60.0	94.471	92.093	92.859	85.406	83.001	82.325	80.572
62.5	81.178	79.553	81.098	75.597	75.026	74.633	71.841
65.0	73.830	72.971	73.050	69.148	68.532	67.984	66.784

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**CANDELA TABULATION - (Cont.)**

67.5	67.778	66.594	67.505	63.232	62.514	62.271	61.465
70.0	61.888	60.737	61.231	56.360	55.182	55.369	54.438
72.5	55.242	53.377	54.577	48.719	47.253	47.889	46.219
75.0	45.953	44.696	44.895	38.987	37.298	37.831	36.160
77.5	36.383	34.714	34.955	28.868	27.500	27.722	26.901
80.0	26.669	25.282	25.051	19.126	18.161	17.915	17.969
82.5	17.105	16.286	16.253	10.315	9.726	9.869	9.401
85.0	8.545	7.517	6.779	2.741	2.286	2.283	2.555
87.5	1.896	1.352	1.336	0.494	0.367	0.431	0.403
90.0	0.168	0.233	0.295	0.239	0.442	0.112	0.360
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	199.64	N.A.	16.70
0-30	422.09	N.A.	35.30
0-40	692.54	N.A.	58.00
0-60	1071.54	N.A.	89.70
0-80	1185.79	N.A.	99.30
0-90	1194.71	N.A.	100.00
10-90	1142.86	N.A.	95.70
20-40	492.90	N.A.	41.30
20-50	749.47	N.A.	62.70
40-70	449.47	N.A.	37.60
60-80	114.26	N.A.	9.60
70-80	43.78	N.A.	3.70
80-90	8.92	N.A.	0.70
90-110	0.04	N.A.	0.00
90-120	0.04	N.A.	0.00
90-130	0.04	N.A.	0.00
90-150	0.04	N.A.	0.00
90-180	0.04	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1194.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	51.86
10-20	147.78
20-30	222.44
30-40	270.46
40-50	256.57
50-60	122.43
60-70	70.47
70-80	43.78
80-90	8.92
90-100	0.04
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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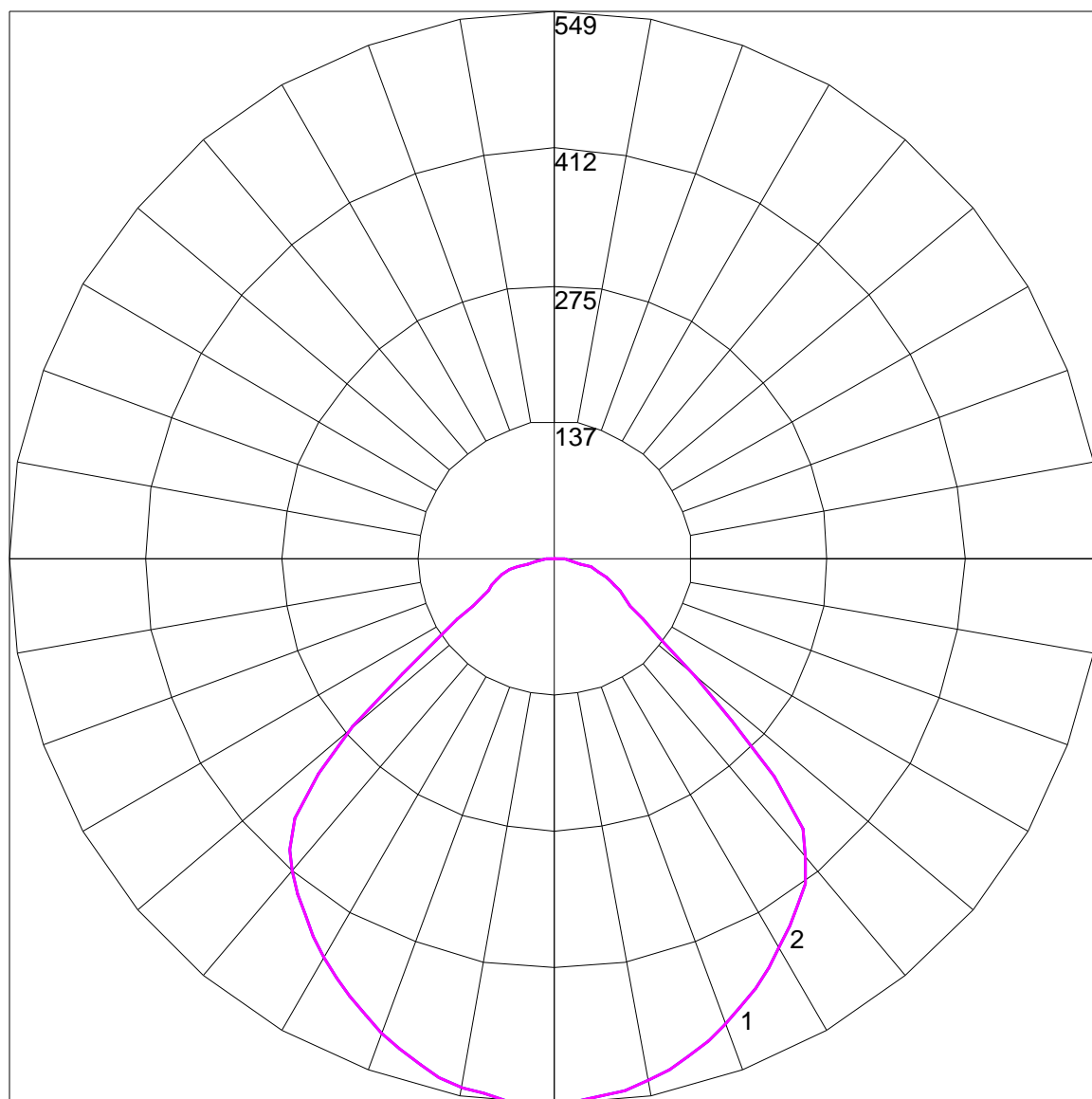
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	72	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

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PHOTOMETRIC FILENAME : SP-00712 ~ HT1813GV-15L35K-EX-TF2-MWI.IES

POLAR GRAPH



Maximum Candela = 549.183 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)