

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00670 ~ ON1606GV-37L35K-EX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00670\_M-37L  
[TESTLAB] Spectrum Photometric Lab VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 4/20/2018  
[UPDATE] 5/24/2018  
[LUMCAT] ON1606GV-37L-35K-EX-MWI  
[LUMINAIRE] Nom. 16" diam x 6.4" H, Orion luminaire  
[OTHER] Regressed, 11" diam. frosted glass globe  
[OTHER] Reflector: Matte White interior finish  
[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  
[\_CRI]85+

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2895
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.33 ft (Diameter)
Luminous Width (90-270)	1.33 ft (Diameter)
Luminous Height	0.17 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00670 ~ ON1606GV-37L35K-EX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6084	6126	6159
55	5808	5861	5933
65	5218	5273	5382
75	4056	4121	4230
85	3137	3179	3282

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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	862.020	862.020	862.020	862.020	862.020	862.020	862.020	862.020	862.020	862.020
2.5	861.974	863.580	864.108	864.355	862.425	858.271	860.042	859.644	859.844	859.972
5.0	861.969	862.932	862.859	861.329	860.198	855.729	857.377	857.041	856.379	855.442
7.5	859.655	860.969	859.238	857.403	856.317	851.258	852.971	852.939	851.552	849.663
10.0	854.970	856.614	854.213	851.629	850.237	845.439	847.095	846.898	845.783	842.920
12.5	848.738	850.547	846.634	845.537	843.194	838.429	839.715	839.886	839.514	835.723
15.0	841.193	841.880	837.831	836.652	835.080	830.740	831.941	831.823	831.146	828.238
17.5	831.302	831.712	827.659	827.471	825.695	821.440	823.835	823.073	821.902	818.558
20.0	819.772	819.935	816.965	816.656	815.159	811.410	814.452	813.717	811.726	807.747
22.5	806.258	807.395	803.831	805.752	804.726	801.132	804.193	802.566	801.244	796.168
25.0	791.628	793.879	789.991	793.691	794.367	790.765	792.192	790.132	788.965	784.279
27.5	777.456	780.003	777.274	781.547	782.747	777.618	779.214	777.046	776.238	770.003
30.0	763.493	765.352	764.798	767.762	770.357	763.705	764.377	763.573	760.832	754.969
32.5	747.286	750.484	748.735	753.731	755.338	746.155	748.698	747.190	744.960	738.413
35.0	730.272	733.605	732.140	737.368	739.035	727.889	730.055	729.430	727.924	721.494
37.5	711.606	716.300	712.731	720.319	720.523	707.767	710.371	710.093	710.753	701.648
40.0	692.494	694.722	693.085	699.282	701.149	687.392	689.233	690.174	689.626	681.319
42.5	669.021	672.543	671.142	677.534	677.515	664.021	667.695	666.462	668.281	658.397
45.0	644.664	649.082	649.043	652.845	652.590	640.427	643.856	641.644	643.377	635.195
47.5	617.820	625.521	622.215	627.445	626.331	613.694	619.562	615.296	618.355	609.297
50.0	590.646	596.163	595.122	599.823	599.778	586.808	591.458	588.623	590.805	583.253
52.5	559.770	566.587	564.479	571.193	570.146	556.339	562.867	559.673	562.928	554.353
55.0	528.633	534.764	533.429	540.140	540.041	525.746	532.394	530.394	531.928	525.248
57.5	494.405	502.601	499.307	507.646	506.895	493.689	501.783	498.429	500.506	492.178
60.0	459.982	466.009	464.473	472.376	473.463	460.699	466.529	466.235	466.621	458.711
62.5	421.445	428.920	426.033	434.774	434.169	421.423	431.038	428.483	431.908	421.700
65.0	382.584	388.155	386.614	393.515	394.628	381.669	391.118	390.496	393.675	384.380
67.5	340.049	346.981	343.649	351.609	352.242	339.633	351.003	348.734	354.537	345.334
70.0	297.688	303.814	301.061	308.881	309.853	297.845	308.604	306.977	312.561	305.776
72.5	256.530	261.668	259.542	267.599	267.413	256.914	266.593	265.256	271.222	264.124
75.0	216.534	223.172	220.009	227.851	225.811	217.567	227.187	224.244	231.420	223.919
77.5	181.958	186.409	184.860	191.684	190.819	182.448	189.216	188.441	193.837	188.107
80.0	149.437	154.419	152.601	158.610	157.073	150.225	157.739	154.207	160.611	154.892
82.5	123.876	125.248	125.408	130.751	130.032	124.145	128.159	127.767	130.830	127.763
85.0	99.854	102.137	101.203	106.549	104.495	100.035	105.108	102.661	106.463	102.951
87.5	79.946	81.335	81.344	85.943	84.675	79.255	83.694	82.417	84.859	82.569
90.0	62.406	64.543	64.316	67.431	66.507	61.634	66.564	64.062	66.818	64.778
92.5	49.813	50.229	50.631	53.498	53.044	48.385	51.361	50.904	52.139	50.960
95.0	38.270	39.433	39.138	41.688	40.842	37.175	40.170	38.816	41.037	39.076
97.5	28.504	29.923	29.750	32.193	31.528	28.291	30.083	29.103	31.183	29.630
100.0	20.210	21.896	21.689	23.533	22.928	20.689	21.858	20.693	22.410	21.322
102.5	13.955	15.313	14.694	16.191	15.626	14.275	14.627	14.580	15.457	14.197
105.0	8.882	10.123	9.560	9.223	9.814	8.985	8.748	9.378	9.803	8.707
107.5	5.137	6.075	5.639	5.620	6.180	4.553	4.610	5.465	5.688	4.599
110.0	2.723	2.924	3.347	2.704	3.566	2.279	2.424	2.811	2.473	2.349
112.5	1.548	1.539	1.905	1.785	2.197	1.358	1.274	1.649	1.190	1.392
115.0	0.991	1.274	1.310	1.133	1.396	0.961	1.084	0.951	0.804	1.006
117.5	0.908	1.162	1.077	1.013	1.160	0.827	0.930	0.699	0.628	0.946
120.0	0.951	1.128	1.037	0.934	0.985	0.949	0.805	0.639	0.530	0.963
122.5	1.071	1.141	1.060	0.951	0.859	1.173	0.715	0.729	0.574	1.016
125.0	1.033	1.173	1.003	0.969	0.917	1.079	0.645	0.739	0.658	0.940

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**CANDELA TABULATION - (Cont.)**

127.5	0.917	1.222	0.925	0.976	1.100	0.885	0.816	0.696	0.809	0.820
130.0	0.921	1.277	0.924	0.983	1.100	0.949	1.109	0.677	0.973	0.809
132.5	0.973	1.180	0.937	0.988	1.002	1.071	1.137	0.669	0.983	0.830
135.0	1.059	1.047	0.936	1.018	0.928	0.964	1.061	0.780	0.972	0.842
137.5	1.156	1.068	0.934	1.218	0.864	0.818	1.110	0.939	0.885	0.854
140.0	1.121	1.116	0.986	1.343	0.940	0.838	1.199	1.128	0.793	0.799
142.5	1.054	1.148	1.040	1.101	1.065	0.875	1.169	1.325	0.823	0.735
145.0	0.926	1.178	1.190	0.930	0.974	0.884	1.113	1.283	0.857	0.817
147.5	0.788	1.169	1.317	1.003	0.829	0.892	1.072	1.181	0.921	0.909
150.0	0.913	1.157	0.998	1.059	0.889	0.949	1.035	1.102	0.985	0.853
152.5	1.062	1.179	0.719	1.072	0.987	1.002	1.008	1.026	1.059	0.794
155.0	1.057	1.189	0.824	1.088	0.964	0.990	0.981	0.953	1.114	0.786
157.5	1.048	1.021	0.935	1.112	0.927	0.961	0.882	0.881	1.048	0.775
160.0	1.084	0.898	1.073	1.141	1.078	0.843	0.807	0.873	0.999	0.744
162.5	1.114	0.925	1.189	1.177	1.116	0.807	0.861	0.906	0.993	0.705
165.0	1.129	0.929	1.278	1.160	0.863	0.886	0.873	1.044	1.015	0.655
167.5	1.042	0.902	1.322	1.156	0.983	0.900	0.845	1.112	1.014	0.728
170.0	0.977	0.769	1.309	1.198	1.135	1.038	0.830	1.010	0.844	0.786
172.5	0.935	0.901	1.209	0.919	1.137	1.101	0.972	0.809	0.907	0.746
175.0	0.886	0.913	1.194	0.921	1.154	0.851	0.921	0.970	0.735	0.648
177.5	0.930	0.831	1.043	1.063	1.232	0.969	1.056	0.942	0.960	0.718
180.0	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114	1.114

**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	862.020	862.020	862.020	862.020	862.020	862.020	862.020
2.5	861.221	862.160	861.880	859.444	860.758	861.861	861.974
5.0	857.196	857.531	857.415	857.337	859.029	860.686	861.969
7.5	851.476	851.522	851.200	853.337	855.140	858.547	859.655
10.0	844.789	842.200	843.408	847.226	850.103	853.967	854.970
12.5	837.209	832.569	834.998	839.442	841.826	848.393	848.738
15.0	827.662	822.351	824.447	830.144	832.166	839.406	841.193
17.5	816.633	811.564	813.255	819.861	820.402	829.353	831.302
20.0	804.926	799.888	800.999	807.838	807.946	817.104	819.772
22.5	792.794	787.937	788.510	794.906	795.436	804.351	806.258
25.0	780.045	775.640	774.905	781.158	782.913	790.579	791.628
27.5	766.986	761.517	761.127	767.064	768.995	776.638	777.456
30.0	752.471	745.512	745.438	752.547	754.827	761.714	763.493
32.5	737.381	728.817	729.575	737.892	738.754	746.692	747.286
35.0	719.304	711.525	711.547	720.061	722.468	728.491	730.272
37.5	700.290	692.144	693.408	701.455	702.560	710.136	711.606
40.0	679.226	671.297	672.868	681.059	682.435	689.396	692.494
42.5	657.689	649.157	652.091	660.342	660.485	668.457	669.021
45.0	633.616	626.274	627.814	637.092	638.324	644.175	644.664
47.5	609.144	601.806	603.133	613.560	611.986	619.465	617.820
50.0	582.339	576.604	575.212	586.807	585.376	591.064	590.646
52.5	555.297	547.698	547.035	559.888	556.016	562.186	559.770
55.0	523.687	517.454	517.499	528.191	526.168	530.636	528.633
57.5	491.876	485.352	486.789	496.366	493.361	498.281	494.405
60.0	458.802	452.733	451.665	462.398	459.553	462.768	459.982
62.5	425.422	415.716	415.678	427.891	421.569	426.339	421.445
65.0	386.812	377.802	377.204	388.420	382.727	387.173	382.584

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**CANDELA TABULATION - (Cont.)**

67.5	347.869	336.959	337.261	348.518	341.123	347.059	340.049
70.0	306.139	295.723	293.978	306.016	299.586	304.718	297.688
72.5	264.894	254.605	252.335	264.151	258.209	263.032	256.530
75.0	226.296	213.496	213.641	224.934	218.668	222.559	216.534
77.5	189.106	179.818	178.498	187.763	182.684	185.631	181.958
80.0	157.468	146.566	148.653	156.898	150.156	154.150	149.437
82.5	127.897	121.870	121.912	128.171	123.162	125.811	123.876
85.0	104.412	97.645	98.926	104.702	99.127	101.381	99.854
87.5	82.969	79.381	78.891	83.448	78.924	80.345	79.946
90.0	66.260	61.794	61.758	66.485	62.071	62.745	62.406
92.5	51.694	48.966	48.051	51.903	48.796	49.367	49.813
95.0	41.126	36.919	37.166	41.073	37.679	39.569	38.270
97.5	31.104	28.528	27.741	31.147	28.466	30.371	28.504
100.0	21.898	20.494	19.291	22.390	20.795	21.585	20.210
102.5	14.520	13.719	12.946	14.967	14.226	14.719	13.955
105.0	9.390	7.804	7.728	8.949	9.154	8.912	8.882
107.5	5.453	4.201	4.473	4.885	4.958	5.439	5.137
110.0	2.728	1.624	2.079	2.520	2.704	3.024	2.723
112.5	1.397	1.199	1.194	1.364	1.371	1.993	1.548
115.0	1.219	0.970	0.822	1.071	1.025	1.449	0.991
117.5	1.101	1.080	0.828	0.873	1.046	1.361	0.908
120.0	1.024	1.076	0.929	0.728	1.027	1.394	0.951
122.5	0.994	0.914	0.843	0.886	0.996	1.320	1.071
125.0	0.989	0.890	0.722	1.186	1.033	1.225	1.033
127.5	0.920	1.021	0.869	1.156	1.084	1.182	0.917
130.0	0.822	1.050	1.048	1.006	1.080	1.146	0.921
132.5	0.832	0.980	1.008	0.964	1.067	1.088	0.973
135.0	0.881	0.992	0.953	0.954	1.258	1.030	1.059
137.5	0.889	1.065	0.945	1.124	1.465	1.055	1.156
140.0	0.886	1.051	0.941	1.334	1.138	1.081	1.121
142.5	0.859	0.981	1.025	1.163	0.809	1.115	1.054
145.0	0.828	0.949	1.088	0.940	1.052	1.136	0.926
147.5	0.890	0.937	0.936	0.828	1.275	1.018	0.788
150.0	0.965	1.032	0.826	0.725	1.222	0.925	0.913
152.5	1.043	1.171	0.995	1.133	1.181	1.009	1.062
155.0	1.120	1.056	1.131	1.523	1.238	1.085	1.057
157.5	0.873	0.862	1.136	1.195	1.279	1.133	1.048
160.0	0.695	1.050	1.120	0.943	1.268	1.236	1.084
162.5	0.837	1.218	1.070	0.961	1.185	1.440	1.114
165.0	0.875	1.051	1.258	1.183	1.019	1.397	1.129
167.5	0.851	1.158	1.403	1.505	0.919	1.249	1.042
170.0	1.088	1.313	1.065	1.400	0.900	1.105	0.977
172.5	0.958	1.249	1.028	1.105	1.039	1.093	0.935
175.0	1.177	1.230	1.131	0.936	1.171	1.130	0.886
177.5	0.902	0.899	1.043	1.105	1.033	0.730	0.930
180.0	1.114	1.114	1.114	1.114	1.114	1.114	1.114

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	316.89	N.A.	10.90
0-30	680.27	N.A.	23.50
0-40	1135.01	N.A.	39.20
0-60	2102.16	N.A.	72.60
0-80	2721.02	N.A.	94.00
0-90	2835.42	N.A.	97.90
10-90	2753.76	N.A.	95.10
20-40	818.12	N.A.	28.30
20-50	1312.76	N.A.	45.30
40-70	1348.66	N.A.	46.60
60-80	618.86	N.A.	21.40
70-80	237.35	N.A.	8.20
80-90	114.40	N.A.	4.00
90-110	55.34	N.A.	1.90
90-120	56.68	N.A.	2.00
90-130	57.54	N.A.	2.00
90-150	58.95	N.A.	2.00
90-180	59.81	N.A.	2.10
110-180	4.48	N.A.	0.20
0-180	2895.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	81.65
10-20	235.23
20-30	363.39
30-40	454.74
40-50	494.64
50-60	472.51
60-70	381.51
70-80	237.35
80-90	114.40
90-100	44.44
100-110	10.90
110-120	1.35
120-130	0.86
130-140	0.77
140-150	0.63
150-160	0.47
160-170	0.29
170-180	0.10

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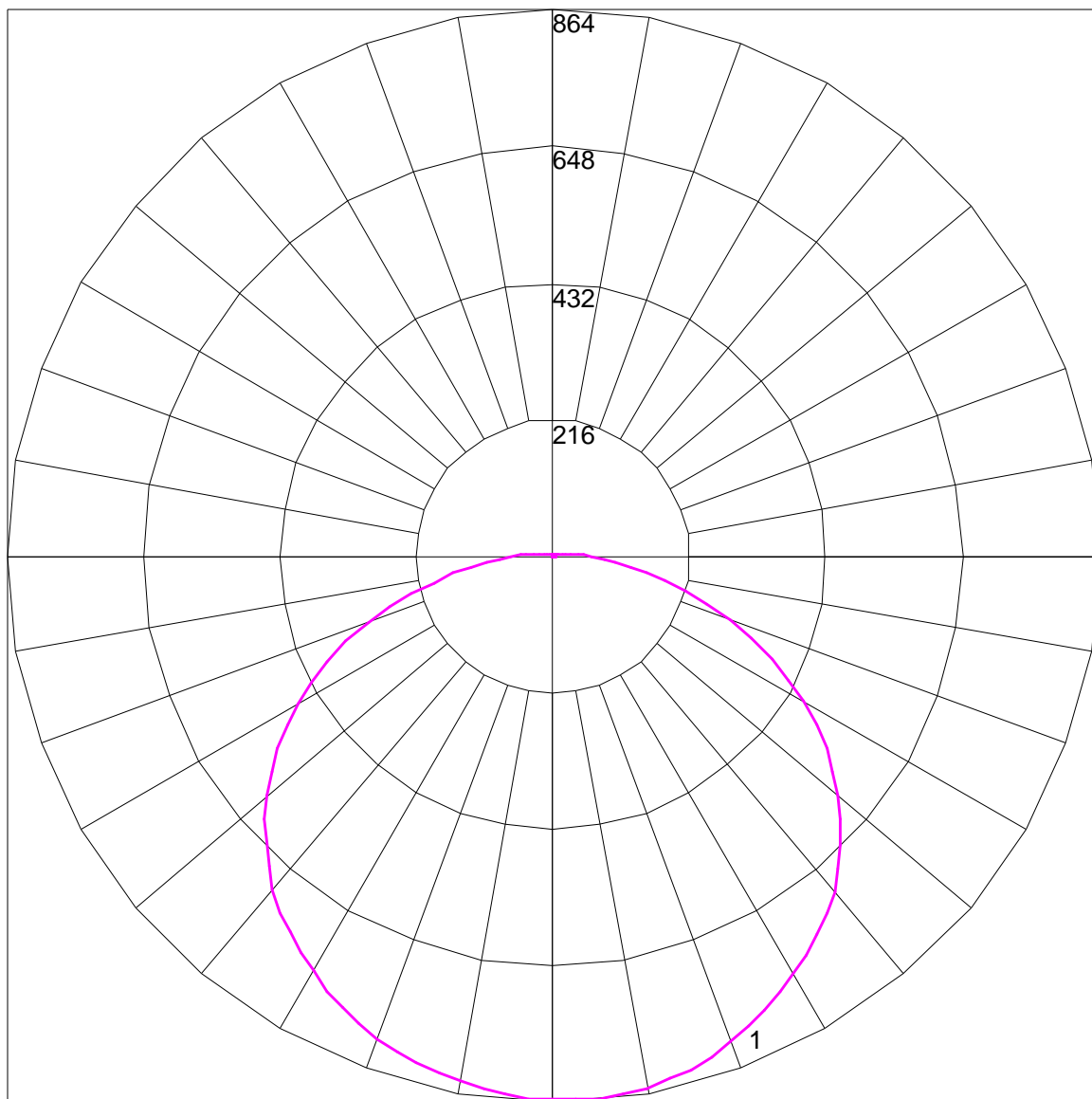
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	107	102	97	93	104	99	95	91	95	91	88	90	87	85	86	84	82	79
2	97	88	80	74	94	86	79	73	82	76	71	78	73	69	75	71	67	65
3	88	77	68	61	85	75	67	60	71	65	59	68	62	58	65	61	56	54
4	80	67	58	51	78	66	57	51	63	56	50	60	54	49	58	52	48	46
5	73	60	51	44	71	59	50	43	56	49	43	54	47	42	52	46	41	39
6	68	54	44	38	66	53	44	38	51	43	37	49	42	37	47	41	36	34
7	63	49	40	33	61	48	39	33	46	38	33	44	37	32	43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	29	40	34	29	39	33	28	26
9	54	40	32	26	53	40	32	26	38	31	26	37	31	26	36	30	25	24
10	51	37	29	24	49	37	29	24	36	28	23	34	28	23	33	27	23	21

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00670 ~ ON1606GV-37L35K-EX-MWI.IES

POLAR GRAPH



Maximum Candela = 864.355 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)