

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00670 ~ ON1606GV-15L35K-EX-MWI.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00670_M-15L
 [TESTLAB] Spectrum Photometric Lab VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 4/20/2018
 [UPDATE] 5/24/2018
 [LUMCAT] ON1606GV-15L-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	1130
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	10
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

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2375	2391	2404
55	2267	2287	2316
65	2037	2058	2101
75	1583	1608	1651
85	1224	1241	1281

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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	336.429	336.429	336.429	336.429	336.429	336.429	336.429	336.429	336.429	336.429
2.5	336.411	337.038	337.244	337.340	336.587	334.966	335.657	335.502	335.580	335.630
5.0	336.409	336.785	336.756	336.159	335.718	333.974	334.617	334.486	334.228	333.862
7.5	335.506	336.019	335.343	334.627	334.203	332.229	332.897	332.885	332.344	331.606
10.0	333.678	334.319	333.382	332.374	331.830	329.958	330.604	330.527	330.092	328.975
12.5	331.245	331.951	330.424	329.996	329.081	327.222	327.724	327.791	327.645	326.166
15.0	328.301	328.569	326.989	326.528	325.915	324.221	324.690	324.644	324.380	323.245
17.5	324.440	324.600	323.019	322.945	322.252	320.591	321.526	321.229	320.772	319.467
20.0	319.941	320.004	318.845	318.724	318.140	316.677	317.864	317.577	316.800	315.247
22.5	314.666	315.110	313.719	314.469	314.068	312.666	313.860	313.225	312.710	310.728
25.0	308.957	309.835	308.317	309.761	310.025	308.620	309.177	308.373	307.917	306.088
27.5	303.426	304.419	303.354	305.022	305.490	303.489	304.112	303.265	302.950	300.517
30.0	297.976	298.701	298.485	299.642	300.655	298.058	298.321	298.007	296.937	294.649
32.5	291.651	292.899	292.216	294.166	294.793	291.209	292.202	291.613	290.743	288.188
35.0	285.010	286.311	285.739	287.780	288.430	284.080	284.926	284.682	284.094	281.584
37.5	277.726	279.557	278.165	281.126	281.206	276.227	277.244	277.135	277.393	273.839
40.0	270.266	271.136	270.497	272.916	273.644	268.275	268.994	269.361	269.147	265.905
42.5	261.106	262.480	261.933	264.428	264.420	259.154	260.588	260.106	260.816	256.959
45.0	251.599	253.324	253.308	254.792	254.693	249.946	251.284	250.421	251.097	247.904
47.5	241.123	244.128	242.838	244.879	244.444	239.513	241.803	240.137	241.332	237.796
50.0	230.517	232.671	232.264	234.099	234.081	229.019	230.834	229.728	230.579	227.632
52.5	218.467	221.127	220.305	222.925	222.517	217.128	219.676	218.429	219.700	216.353
55.0	206.315	208.708	208.186	210.806	210.767	205.188	207.783	207.002	207.601	204.994
57.5	192.956	196.155	194.869	198.124	197.831	192.677	195.836	194.527	195.337	192.087
60.0	179.522	181.874	181.275	184.359	184.783	179.802	182.077	181.962	182.113	179.026
62.5	164.482	167.399	166.272	169.683	169.447	164.473	168.225	167.228	168.565	164.581
65.0	149.315	151.489	150.888	153.581	154.015	148.958	152.645	152.403	153.643	150.016
67.5	132.714	135.419	134.119	137.226	137.473	132.552	136.989	136.104	138.369	134.777
70.0	116.182	118.572	117.498	120.550	120.929	116.243	120.442	119.807	121.986	119.338
72.5	100.118	102.124	101.294	104.438	104.366	100.268	104.046	103.524	105.852	103.082
75.0	84.509	87.100	85.865	88.926	88.129	84.912	88.667	87.518	90.319	87.391
77.5	71.014	72.752	72.147	74.810	74.473	71.206	73.847	73.545	75.651	73.414
80.0	58.322	60.267	59.557	61.902	61.302	58.630	61.562	60.184	62.683	60.451
82.5	48.346	48.882	48.944	51.029	50.749	48.451	50.018	49.865	51.060	49.863
85.0	38.971	39.862	39.497	41.584	40.782	39.042	41.021	40.067	41.550	40.180
87.5	31.201	31.743	31.747	33.542	33.047	30.932	32.664	32.166	33.119	32.225
90.0	24.356	25.190	25.101	26.317	25.956	24.055	25.978	25.002	26.078	25.282
92.5	19.441	19.603	19.760	20.879	20.702	18.884	20.045	19.867	20.349	19.889
95.0	14.936	15.390	15.275	16.270	15.940	14.509	15.678	15.149	16.016	15.250
97.5	11.124	11.678	11.611	12.564	12.305	11.041	11.741	11.358	12.170	11.564
100.0	7.888	8.546	8.465	9.184	8.949	8.075	8.531	8.076	8.746	8.322
102.5	5.447	5.977	5.735	6.319	6.098	5.571	5.709	5.690	6.032	5.541
105.0	3.466	3.951	3.731	3.599	3.830	3.507	3.414	3.660	3.826	3.398
107.5	2.005	2.371	2.201	2.193	2.412	1.777	1.799	2.133	2.220	1.795
110.0	1.063	1.141	1.306	1.055	1.392	0.889	0.946	1.097	0.965	0.917
112.5	0.604	0.600	0.744	0.697	0.857	0.530	0.497	0.644	0.464	0.543
115.0	0.387	0.497	0.511	0.442	0.545	0.375	0.423	0.371	0.314	0.393
117.5	0.354	0.453	0.420	0.395	0.453	0.323	0.363	0.273	0.245	0.369
120.0	0.371	0.440	0.405	0.365	0.385	0.370	0.314	0.249	0.207	0.376
122.5	0.418	0.445	0.414	0.371	0.335	0.458	0.279	0.284	0.224	0.396
125.0	0.403	0.458	0.391	0.378	0.358	0.421	0.252	0.288	0.257	0.367

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127.5	0.358	0.477	0.361	0.381	0.429	0.346	0.319	0.272	0.316	0.320
130.0	0.359	0.498	0.361	0.383	0.429	0.370	0.433	0.264	0.380	0.316
132.5	0.380	0.461	0.366	0.386	0.391	0.418	0.444	0.261	0.384	0.324
135.0	0.413	0.409	0.365	0.397	0.362	0.376	0.414	0.304	0.379	0.329
137.5	0.451	0.417	0.365	0.475	0.337	0.319	0.433	0.366	0.346	0.333
140.0	0.438	0.435	0.385	0.524	0.367	0.327	0.468	0.440	0.310	0.312
142.5	0.411	0.448	0.406	0.430	0.416	0.342	0.456	0.517	0.321	0.287
145.0	0.361	0.460	0.464	0.363	0.380	0.345	0.434	0.501	0.334	0.319
147.5	0.307	0.456	0.514	0.391	0.324	0.348	0.418	0.461	0.359	0.355
150.0	0.356	0.452	0.390	0.413	0.347	0.370	0.404	0.430	0.385	0.333
152.5	0.414	0.460	0.281	0.418	0.385	0.391	0.393	0.400	0.413	0.310
155.0	0.412	0.464	0.321	0.425	0.376	0.386	0.383	0.372	0.435	0.307
157.5	0.409	0.398	0.365	0.434	0.362	0.375	0.344	0.344	0.409	0.303
160.0	0.423	0.351	0.419	0.445	0.421	0.329	0.315	0.341	0.390	0.290
162.5	0.435	0.361	0.464	0.460	0.435	0.315	0.336	0.354	0.388	0.275
165.0	0.441	0.363	0.499	0.453	0.337	0.346	0.341	0.408	0.396	0.255
167.5	0.407	0.352	0.516	0.451	0.384	0.351	0.330	0.434	0.396	0.284
170.0	0.381	0.300	0.511	0.467	0.443	0.405	0.324	0.394	0.329	0.307
172.5	0.365	0.352	0.472	0.359	0.444	0.430	0.379	0.316	0.354	0.291
175.0	0.346	0.356	0.466	0.360	0.450	0.332	0.359	0.378	0.287	0.253
177.5	0.363	0.324	0.407	0.415	0.481	0.378	0.412	0.368	0.375	0.280
180.0	0.435	0.435	0.435	0.435	0.435	0.435	0.435	0.435	0.435	0.435

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	336.429	336.429	336.429	336.429	336.429	336.429	336.429
2.5	336.117	336.483	336.374	335.424	335.937	336.367	336.411
5.0	334.546	334.677	334.632	334.601	335.262	335.908	336.409
7.5	332.314	332.332	332.206	333.040	333.744	335.074	335.506
10.0	329.704	328.694	329.165	330.655	331.778	333.286	333.678
12.5	326.746	324.935	325.883	327.617	328.548	331.111	331.245
15.0	323.020	320.947	321.765	323.988	324.778	327.603	328.301
17.5	318.715	316.737	317.397	319.975	320.186	323.680	324.440
20.0	314.146	312.180	312.614	315.283	315.325	318.899	319.941
22.5	309.411	307.516	307.739	310.236	310.443	313.922	314.666
25.0	304.436	302.717	302.430	304.870	305.555	308.547	308.957
27.5	299.339	297.205	297.053	299.369	300.123	303.106	303.426
30.0	293.674	290.958	290.929	293.704	294.594	297.281	297.976
32.5	287.785	284.443	284.739	287.984	288.321	291.419	291.651
35.0	280.730	277.694	277.702	281.025	281.965	284.315	285.010
37.5	273.309	270.130	270.623	273.764	274.195	277.152	277.726
40.0	265.088	261.994	262.607	265.803	266.341	269.057	270.266
42.5	256.683	253.353	254.498	257.718	257.774	260.885	261.106
45.0	247.288	244.422	245.023	248.644	249.125	251.408	251.599
47.5	237.737	234.873	235.390	239.460	238.846	241.765	241.123
50.0	227.275	225.037	224.494	229.019	228.460	230.680	230.517
52.5	216.721	213.755	213.497	218.513	217.002	219.410	218.467
55.0	204.384	201.952	201.969	206.142	205.353	207.096	206.315
57.5	191.969	189.423	189.984	193.722	192.549	194.469	192.956
60.0	179.061	176.692	176.276	180.464	179.354	180.609	179.522
62.5	166.034	162.245	162.231	166.997	164.530	166.392	164.482
65.0	150.965	147.448	147.215	151.592	149.370	151.106	149.315

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CANDELA TABULATION - (Cont.)

67.5	135.766	131.508	131.626	136.020	133.134	135.450	132.714
70.0	119.480	115.415	114.734	119.432	116.922	118.925	116.182
72.5	103.383	99.367	98.481	103.093	100.774	102.656	100.118
75.0	88.319	83.323	83.380	87.787	85.342	86.860	84.509
77.5	73.804	70.179	69.664	73.280	71.298	72.448	71.014
80.0	61.456	57.202	58.016	61.234	58.603	60.162	58.322
82.5	49.916	47.563	47.580	50.023	48.068	49.102	48.346
85.0	40.750	38.109	38.609	40.863	38.687	39.567	38.971
87.5	32.381	30.981	30.790	32.568	30.802	31.357	31.201
90.0	25.860	24.117	24.103	25.948	24.225	24.488	24.356
92.5	20.175	19.110	18.753	20.257	19.044	19.267	19.441
95.0	16.051	14.409	14.505	16.030	14.705	15.443	14.936
97.5	12.139	11.134	10.827	12.156	11.110	11.853	11.124
100.0	8.547	7.998	7.529	8.738	8.116	8.424	7.888
102.5	5.667	5.354	5.052	5.841	5.552	5.744	5.447
105.0	3.665	3.046	3.016	3.492	3.572	3.478	3.466
107.5	2.128	1.640	1.746	1.907	1.935	2.123	2.005
110.0	1.065	0.634	0.811	0.984	1.055	1.180	1.063
112.5	0.545	0.468	0.466	0.532	0.535	0.778	0.604
115.0	0.476	0.379	0.321	0.418	0.400	0.566	0.387
117.5	0.430	0.421	0.323	0.341	0.408	0.531	0.354
120.0	0.400	0.420	0.363	0.284	0.401	0.544	0.371
122.5	0.388	0.357	0.329	0.346	0.389	0.515	0.418
125.0	0.386	0.347	0.282	0.463	0.403	0.478	0.403
127.5	0.359	0.399	0.339	0.451	0.423	0.461	0.358
130.0	0.321	0.410	0.409	0.392	0.421	0.447	0.359
132.5	0.325	0.383	0.393	0.376	0.417	0.425	0.380
135.0	0.344	0.387	0.372	0.372	0.491	0.402	0.413
137.5	0.347	0.416	0.369	0.439	0.572	0.412	0.451
140.0	0.346	0.410	0.367	0.520	0.444	0.422	0.438
142.5	0.335	0.383	0.400	0.454	0.316	0.435	0.411
145.0	0.323	0.370	0.425	0.367	0.410	0.443	0.361
147.5	0.347	0.366	0.365	0.323	0.498	0.397	0.307
150.0	0.377	0.403	0.323	0.283	0.477	0.361	0.356
152.5	0.407	0.457	0.388	0.442	0.461	0.394	0.414
155.0	0.437	0.412	0.441	0.594	0.483	0.423	0.412
157.5	0.341	0.336	0.443	0.466	0.499	0.442	0.409
160.0	0.271	0.410	0.437	0.368	0.495	0.482	0.423
162.5	0.326	0.475	0.418	0.375	0.462	0.562	0.435
165.0	0.341	0.410	0.491	0.462	0.398	0.545	0.441
167.5	0.332	0.452	0.548	0.588	0.359	0.487	0.407
170.0	0.425	0.513	0.416	0.546	0.351	0.431	0.381
172.5	0.374	0.487	0.401	0.431	0.405	0.427	0.365
175.0	0.459	0.480	0.441	0.365	0.457	0.441	0.346
177.5	0.352	0.351	0.407	0.431	0.403	0.285	0.363
180.0	0.435	0.435	0.435	0.435	0.435	0.435	0.435

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	123.67	N.A.	10.90
0-30	265.50	N.A.	23.50
0-40	442.97	N.A.	39.20
0-60	820.43	N.A.	72.60
0-80	1061.96	N.A.	94.00
0-90	1106.61	N.A.	97.90
10-90	1074.74	N.A.	95.10
20-40	319.30	N.A.	28.30
20-50	512.35	N.A.	45.30
40-70	526.35	N.A.	46.60
60-80	241.53	N.A.	21.40
70-80	92.63	N.A.	8.20
80-90	44.65	N.A.	4.00
90-110	21.60	N.A.	1.90
90-120	22.12	N.A.	2.00
90-130	22.46	N.A.	2.00
90-150	23.01	N.A.	2.00
90-180	23.34	N.A.	2.10
110-180	1.75	N.A.	0.20
0-180	1129.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	31.87
10-20	91.81
20-30	141.82
30-40	177.47
40-50	193.05
50-60	184.41
60-70	148.90
70-80	92.63
80-90	44.65
90-100	17.34
100-110	4.25
110-120	0.52
120-130	0.34
130-140	0.30
140-150	0.25
150-160	0.18
160-170	0.11
170-180	0.04

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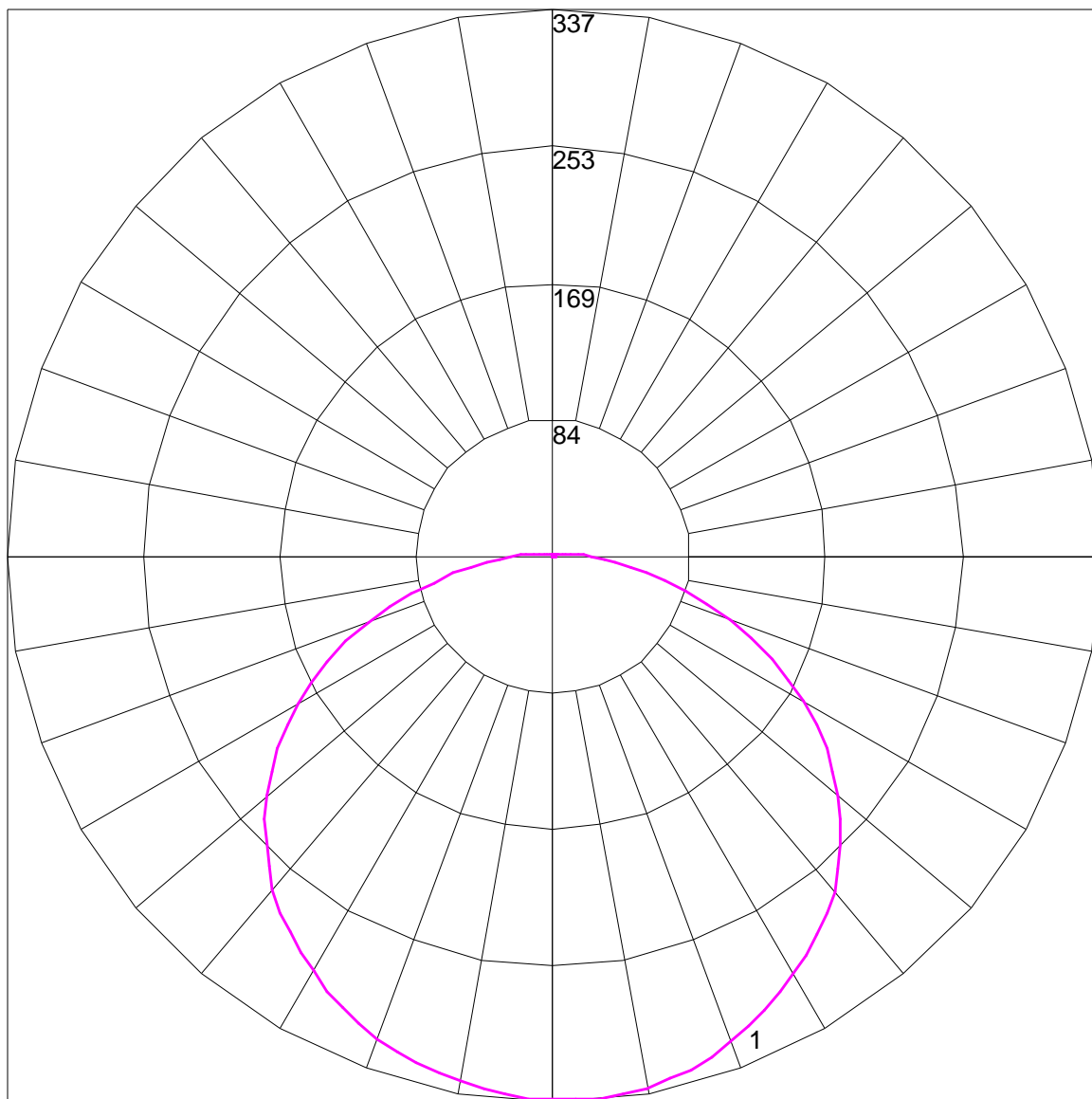
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	94	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

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POLAR GRAPH



Maximum Candela = 337.34 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)