

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00671 ~ ON2412GV-15L35K-EX-WMI.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00671\_M-15L  
 [TESTLAB] Spectrum Photometric Lab VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 4/20/2018  
 [UPDATE] 5/24/2018  
 [LUMCAT] ON2412GV-15L-35K-EX-MWI  
 [LUMINAIRE] Nom. 24" diam x 11.4" 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	1055
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Circular
Luminous Length (0-180)	2.00 ft (Diameter)
Luminous Width (90-270)	2.00 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	1455	1453	1453
55	1052	1055	1071
65	612	606	616
75	454	445	447
85	318	309	344

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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>
<b>0.0</b>	432.437	432.437	432.437	432.437	432.437	432.437	432.437	432.437	432.437	432.437
<b>2.5</b>	431.283	431.488	431.022	431.185	431.445	431.247	432.189	432.214	432.599	432.534
<b>5.0</b>	428.935	429.039	429.029	428.908	429.531	428.726	429.828	430.062	430.963	431.379
<b>7.5</b>	425.989	425.910	425.783	426.140	426.829	425.120	426.231	426.383	428.401	429.330
<b>10.0</b>	421.844	422.164	421.943	422.625	422.933	420.602	421.342	421.748	424.468	425.528
<b>12.5</b>	417.186	417.746	417.352	418.480	418.454	415.511	415.938	416.007	419.472	420.447
<b>15.0</b>	412.231	412.803	412.101	413.508	413.061	409.355	410.068	409.711	413.119	414.436
<b>17.5</b>	407.168	407.247	406.121	407.796	407.291	402.609	403.393	402.852	406.417	407.835
<b>20.0</b>	401.055	401.268	399.947	401.223	400.760	395.838	396.081	395.758	399.320	400.677
<b>22.5</b>	394.622	394.714	393.585	394.268	393.959	389.055	388.480	388.452	391.475	393.212
<b>25.0</b>	387.556	387.818	386.471	386.929	386.226	381.223	380.679	380.154	382.900	385.052
<b>27.5</b>	380.333	380.172	378.730	379.186	378.223	372.975	372.325	371.094	374.485	376.566
<b>30.0</b>	372.094	372.147	370.450	371.092	369.904	364.165	363.645	362.482	366.207	367.919
<b>32.5</b>	363.656	363.328	361.774	362.500	361.511	355.165	354.567	354.169	357.370	359.207
<b>35.0</b>	354.041	354.160	352.064	353.523	351.738	345.385	345.283	344.560	348.116	349.877
<b>37.5</b>	344.248	343.684	341.695	343.455	341.703	335.388	334.663	334.197	337.718	340.338
<b>40.0</b>	332.315	332.723	330.245	332.662	330.023	323.349	323.456	321.906	326.582	328.366
<b>42.5</b>	320.158	318.928	318.207	319.278	318.112	310.860	309.076	308.662	311.839	315.723
<b>45.0</b>	300.476	304.271	300.107	304.400	300.080	290.349	293.529	288.295	295.111	295.039
<b>47.5</b>	280.301	279.564	279.161	281.286	281.467	268.410	267.277	264.905	269.080	272.549
<b>50.0</b>	246.804	252.286	248.043	254.067	249.316	234.946	237.656	231.633	238.561	238.174
<b>52.5</b>	212.894	216.186	212.842	219.091	216.345	199.991	201.671	194.800	202.805	201.698
<b>55.0</b>	176.263	178.318	176.862	180.855	179.528	165.129	164.068	160.630	164.924	165.968
<b>57.5</b>	140.073	146.441	140.622	147.952	142.772	130.276	133.996	127.248	134.569	130.335
<b>60.0</b>	115.155	115.490	114.355	116.951	117.124	106.684	105.424	103.539	106.800	106.796
<b>62.5</b>	90.960	95.175	90.849	95.079	91.937	83.664	86.537	82.229	86.969	84.368
<b>65.0</b>	75.605	76.053	74.817	75.933	76.065	69.666	69.183	68.110	69.411	70.189
<b>67.5</b>	61.150	63.212	60.423	62.838	61.048	56.174	57.426	55.344	57.597	56.700
<b>70.0</b>	50.905	51.099	49.927	51.007	50.900	46.598	46.499	45.758	46.934	47.676
<b>72.5</b>	41.828	41.863	40.435	42.014	41.677	38.129	38.603	37.055	38.685	39.018
<b>75.0</b>	34.304	34.125	33.660	34.165	33.789	31.648	31.608	30.794	31.341	31.110
<b>77.5</b>	27.594	27.851	27.171	28.010	27.263	24.587	25.586	24.440	25.308	24.788
<b>80.0</b>	21.206	21.418	20.764	21.322	21.206	18.203	18.935	18.108	18.424	18.713
<b>82.5</b>	14.762	14.516	14.270	14.668	15.168	12.510	12.383	11.729	11.880	12.234
<b>85.0</b>	8.108	8.068	7.871	8.429	8.749	6.119	5.972	4.945	5.450	5.628
<b>87.5</b>	2.404	2.065	2.127	2.459	2.886	1.189	1.003	0.894	0.777	1.022
<b>90.0</b>	0.384	0.175	0.298	0.225	0.240	0.329	0.163	0.335	0.232	0.254
<b>92.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>97.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>102.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>107.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>112.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>117.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>122.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125.0</b>	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	432.437	432.437	432.437	432.437	432.437	432.437	432.437
2.5	432.180	431.685	431.539	432.224	432.118	432.176	431.283
5.0	431.525	429.983	429.569	430.841	429.996	429.780	428.935
7.5	429.102	427.540	426.821	428.131	426.865	426.595	425.989
10.0	425.770	423.761	423.047	424.034	422.698	422.964	421.844
12.5	421.248	419.429	418.373	419.342	417.880	418.127	417.186
15.0	416.209	413.631	412.661	414.111	412.359	412.713	412.231
17.5	409.542	407.328	406.432	408.023	406.455	407.139	407.168
20.0	402.264	400.704	399.682	401.258	400.532	401.500	401.055
22.5	394.960	393.986	392.585	394.408	394.601	395.473	394.622
25.0	387.648	386.114	385.186	387.499	387.496	389.312	387.556
27.5	379.110	377.971	377.217	380.388	379.928	382.240	380.333
30.0	370.266	369.604	368.814	373.156	372.644	374.908	372.094
32.5	361.496	361.197	360.022	364.584	365.456	366.461	363.656
35.0	352.742	351.191	350.970	355.324	356.096	357.748	354.041
37.5	342.575	340.959	340.570	345.344	346.134	347.465	344.248
40.0	332.190	329.013	329.401	335.047	334.562	336.894	332.315
42.5	317.220	316.902	314.318	321.071	322.634	322.889	320.158
45.0	301.757	295.064	297.309	305.741	303.030	308.422	300.476
47.5	273.878	272.666	269.610	280.156	282.058	282.933	280.301
50.0	245.100	236.222	237.399	251.341	248.357	256.366	246.804
52.5	206.467	199.484	200.813	214.641	213.011	219.176	212.894
55.0	167.539	163.507	162.690	175.935	176.672	181.399	176.263
57.5	137.123	128.169	133.015	144.205	140.250	148.661	140.073
60.0	107.130	105.375	105.821	113.865	114.850	116.179	115.155
62.5	88.695	83.330	86.606	93.524	90.010	96.311	90.960
65.0	70.821	69.605	69.311	74.766	75.410	76.941	75.605

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**CANDELA TABULATION - (Cont.)**

67.5	58.449	56.545	57.476	62.165	61.310	64.015	61.150
70.0	47.153	46.458	46.614	50.384	50.961	51.917	50.905
72.5	38.895	37.849	38.546	41.204	41.642	42.413	41.828
75.0	31.788	31.130	31.114	33.572	34.173	34.597	34.304
77.5	25.395	24.879	24.522	27.617	27.243	27.998	27.594
80.0	18.904	18.410	18.136	20.770	20.727	21.830	21.206
82.5	12.304	11.645	11.566	14.332	14.474	15.622	14.762
85.0	5.458	5.119	5.466	7.805	7.920	8.695	8.108
87.5	0.806	0.760	0.726	1.787	2.190	2.663	2.404
90.0	0.148	0.197	0.131	0.177	0.239	0.195	0.384
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	157.32	N.A.	14.90
0-30	335.19	N.A.	31.80
0-40	555.06	N.A.	52.60
0-60	936.90	N.A.	88.80
0-80	1046.34	N.A.	99.20
0-90	1055.00	N.A.	100.00
10-90	1014.19	N.A.	96.10
20-40	397.74	N.A.	37.70
20-50	624.91	N.A.	59.20
40-70	456.15	N.A.	43.20
60-80	109.44	N.A.	10.40
70-80	35.13	N.A.	3.30
80-90	8.67	N.A.	0.80
90-110	0.03	N.A.	0.00
90-120	0.03	N.A.	0.00
90-130	0.03	N.A.	0.00
90-150	0.03	N.A.	0.00
90-180	0.03	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1055.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	40.82
10-20	116.50
20-30	177.87
30-40	219.88
40-50	227.17
50-60	154.67
60-70	74.31
70-80	35.13
80-90	8.67
90-100	0.03
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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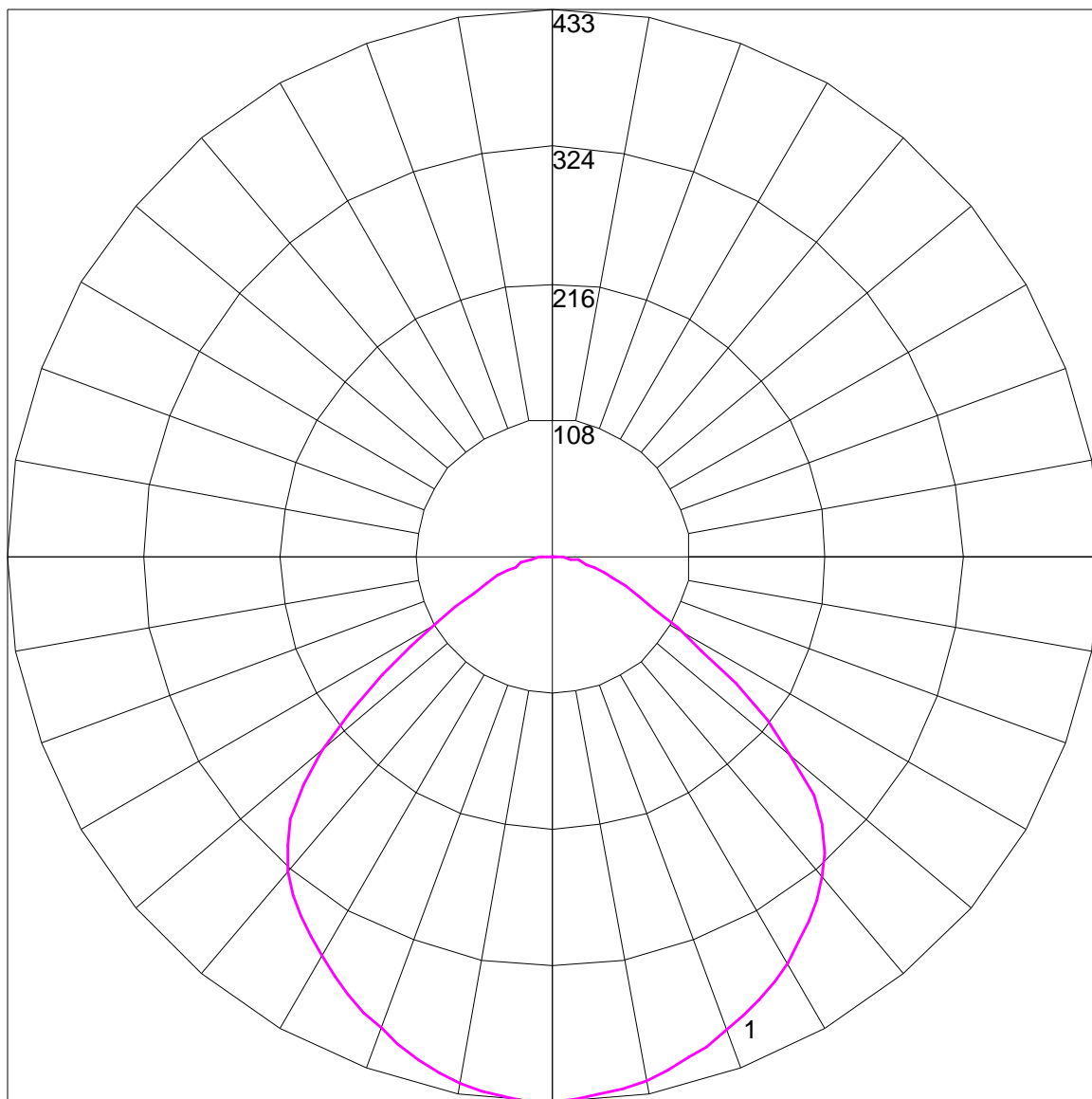
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	52	61	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34
9	59	47	39	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	41	34	30	40	34	30	28

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00671 ~ ON2412GV-15L35K-EX-WMI.IES

POLAR GRAPH



Maximum Candela = 432.599 Located At Horizontal Angle = 180, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)