

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00672 ~ ON3012GV-27L35K-EX-WMI.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00672\_M-27L  
 [TESTLAB] Spectrum Photometric Lab VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 4/20/2018  
 [UPDATE] 5/25/2018  
 [LUMCAT] HD3012GV-27L-35K-EX-MWI  
 [LUMINAIRE] Nom. 30" diam x 11.5" 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	1882
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	2.50 ft (Diameter)
Luminous Width (90-270)	2.50 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00672 ~ ON3012GV-27L35K-EX-WMI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1588	1565	1545
55	1472	1292	1191
65	767	588	507
75	412	306	270
85	286	122	75

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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>	788.327	788.327	788.327	788.327	788.327	788.327	788.327	788.327	788.327	788.327
<b>2.5</b>	786.585	786.026	782.729	782.022	779.068	773.561	778.057	782.426	786.638	789.653
<b>5.0</b>	780.949	777.807	773.431	772.343	770.029	761.657	767.229	773.477	781.050	784.626
<b>7.5</b>	769.285	766.021	760.875	759.412	756.691	747.266	753.109	759.469	768.857	774.210
<b>10.0</b>	756.996	752.526	747.140	745.955	742.849	731.547	737.140	744.465	756.233	761.266
<b>12.5</b>	742.383	738.199	731.947	730.494	727.252	714.594	720.816	727.589	739.302	745.532
<b>15.0</b>	727.429	723.562	716.465	714.842	711.287	697.792	704.331	710.642	722.322	729.172
<b>17.5</b>	711.532	707.501	700.695	699.224	694.336	681.104	686.982	693.589	705.002	712.252
<b>20.0</b>	695.352	691.024	684.400	683.579	677.416	665.066	669.326	676.196	687.662	695.432
<b>22.5</b>	678.543	674.018	667.667	665.696	660.556	649.426	652.791	658.382	670.122	678.684
<b>25.0</b>	661.431	656.902	650.523	647.915	643.892	633.025	636.552	640.987	652.711	660.735
<b>27.5</b>	643.785	639.828	633.102	631.599	627.556	616.249	620.000	624.017	636.099	642.068
<b>30.0</b>	626.004	622.761	616.144	615.158	610.728	599.789	603.388	607.587	619.448	624.686
<b>32.5</b>	608.033	605.946	599.438	597.708	593.226	583.451	586.723	591.600	602.621	607.922
<b>35.0</b>	590.056	589.151	582.195	580.209	575.552	566.649	570.052	574.901	585.733	591.287
<b>37.5</b>	572.073	570.568	564.717	562.451	557.687	549.709	552.747	557.720	568.648	574.702
<b>40.0</b>	553.111	551.927	545.731	544.327	539.560	531.407	535.403	539.862	551.150	556.332
<b>42.5</b>	533.226	532.644	526.238	524.833	521.196	512.807	516.203	521.638	532.639	537.452
<b>45.0</b>	512.547	513.036	505.254	503.894	498.634	489.435	496.581	500.604	513.066	517.275
<b>47.5</b>	491.254	489.475	483.893	478.863	472.956	465.365	467.539	478.357	491.419	496.826
<b>50.0</b>	464.966	463.570	446.474	444.782	430.813	417.294	435.543	440.676	463.613	471.120
<b>52.5</b>	435.518	421.818	406.155	390.892	378.861	367.081	374.849	397.782	426.242	444.667
<b>55.0</b>	385.470	374.963	338.229	329.968	311.804	293.247	312.815	331.158	374.529	390.178
<b>57.5</b>	325.052	304.539	267.225	256.685	237.501	219.269	242.479	258.608	304.635	333.518
<b>60.0</b>	260.255	237.303	206.485	193.307	180.438	168.923	177.420	199.186	239.306	264.319
<b>62.5</b>	193.705	180.918	146.298	144.070	129.914	120.124	134.629	142.093	178.726	195.505
<b>65.0</b>	148.042	131.526	113.343	105.438	97.866	92.119	96.879	108.730	132.740	151.195
<b>67.5</b>	108.762	99.220	81.993	78.693	71.030	66.343	73.797	78.229	98.778	109.512
<b>70.0</b>	84.164	72.984	63.374	58.845	54.664	50.988	54.682	60.688	74.574	84.504
<b>72.5</b>	62.886	54.294	47.451	43.342	40.681	38.530	41.264	45.270	54.933	63.229
<b>75.0</b>	48.724	42.372	36.131	34.410	31.924	29.825	32.383	35.077	42.824	47.632
<b>77.5</b>	37.766	32.787	28.172	26.127	24.236	22.698	24.689	26.954	32.999	37.192
<b>80.0</b>	28.725	24.144	20.295	18.141	16.910	15.472	16.065	19.227	25.194	28.216
<b>82.5</b>	20.038	16.561	11.890	11.162	9.267	8.072	8.918	11.379	15.568	19.831
<b>85.0</b>	11.381	7.800	4.835	3.617	2.969	2.189	2.599	4.916	8.190	11.803
<b>87.5</b>	4.095	2.055	1.002	0.697	0.575	0.501	0.417	0.673	2.397	4.373
<b>90.0</b>	0.483	0.243	0.541	0.218	0.448	0.370	0.144	0.317	0.210	0.601
<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	788.327	788.327	788.327	788.327	788.327	788.327	788.327
2.5	790.277	789.543	786.942	786.675	787.626	788.524	786.585
5.0	787.002	786.909	785.524	785.522	785.074	785.274	780.949
7.5	778.046	776.632	775.071	778.423	776.895	775.421	769.285
10.0	766.706	765.214	763.882	767.881	766.039	763.956	756.996
12.5	751.668	751.011	749.001	754.611	752.617	749.824	742.383
15.0	735.445	735.776	733.995	740.050	737.986	735.232	727.429
17.5	718.483	718.529	717.700	725.065	722.419	719.258	711.532
20.0	701.339	701.321	701.380	709.925	706.617	703.134	695.352
22.5	683.997	684.173	684.753	693.415	690.666	687.319	678.543
25.0	666.621	667.109	668.108	676.528	673.798	671.512	661.431
27.5	649.440	650.152	651.336	659.075	656.461	654.313	643.785
30.0	632.278	632.810	634.493	641.507	638.979	637.038	626.004
32.5	615.008	615.067	617.330	624.178	621.441	618.436	608.033
35.0	597.732	597.597	600.012	606.881	603.399	599.795	590.056
37.5	580.508	580.360	582.161	587.967	585.198	580.826	572.073
40.0	563.157	562.063	563.829	568.941	566.345	561.830	553.111
42.5	543.631	543.034	544.255	549.525	547.341	542.693	533.226
45.0	524.009	523.354	524.173	530.028	526.544	523.041	512.547
47.5	503.569	503.310	503.069	508.417	505.470	501.381	491.254
50.0	481.864	479.912	480.598	486.442	481.849	478.116	464.966
52.5	453.383	455.011	455.871	460.601	457.980	450.200	435.518
55.0	418.615	414.076	421.067	431.586	418.006	413.690	385.470
57.5	359.678	367.603	372.920	381.660	376.968	357.349	325.052
60.0	298.774	302.802	315.391	328.472	308.506	297.371	260.255
62.5	232.140	233.097	247.675	260.865	240.967	230.785	193.705
65.0	173.359	181.246	190.630	198.367	187.337	174.300	148.042

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**CANDELA TABULATION - (Cont.)**

67.5	131.399	132.711	142.883	151.578	137.645	132.011	108.762
70.0	98.060	104.260	108.886	112.761	107.253	99.398	84.164
72.5	74.385	78.742	81.514	85.700	81.194	74.439	62.886
75.0	57.094	60.167	62.904	65.809	60.955	56.993	48.724
77.5	43.154	46.436	48.109	50.153	47.708	43.257	37.766
80.0	33.042	35.781	37.587	39.429	36.925	33.874	28.725
82.5	24.219	26.838	28.230	29.047	27.684	25.457	20.038
85.0	15.579	17.375	19.162	20.040	18.700	16.346	11.381
87.5	7.428	9.215	9.978	11.675	10.459	8.092	4.095
90.0	0.926	2.088	3.318	1.636	2.773	0.667	0.483
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	277.56	N.A.	14.70
0-30	580.60	N.A.	30.80
0-40	949.07	N.A.	50.40
0-60	1669.31	N.A.	88.70
0-80	1869.29	N.A.	99.30
0-90	1882.16	N.A.	100.00
10-90	1808.65	N.A.	96.10
20-40	671.51	N.A.	35.70
20-50	1065.94	N.A.	56.60
40-70	868.44	N.A.	46.10
60-80	199.98	N.A.	10.60
70-80	51.78	N.A.	2.80
80-90	12.87	N.A.	0.70
90-110	0.13	N.A.	0.00
90-120	0.13	N.A.	0.00
90-130	0.13	N.A.	0.00
90-150	0.13	N.A.	0.00
90-180	0.13	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1882.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	73.51
10-20	204.04
20-30	303.05
30-40	368.46
40-50	394.43
50-60	325.81
60-70	148.20
70-80	51.78
80-90	12.87
90-100	0.13
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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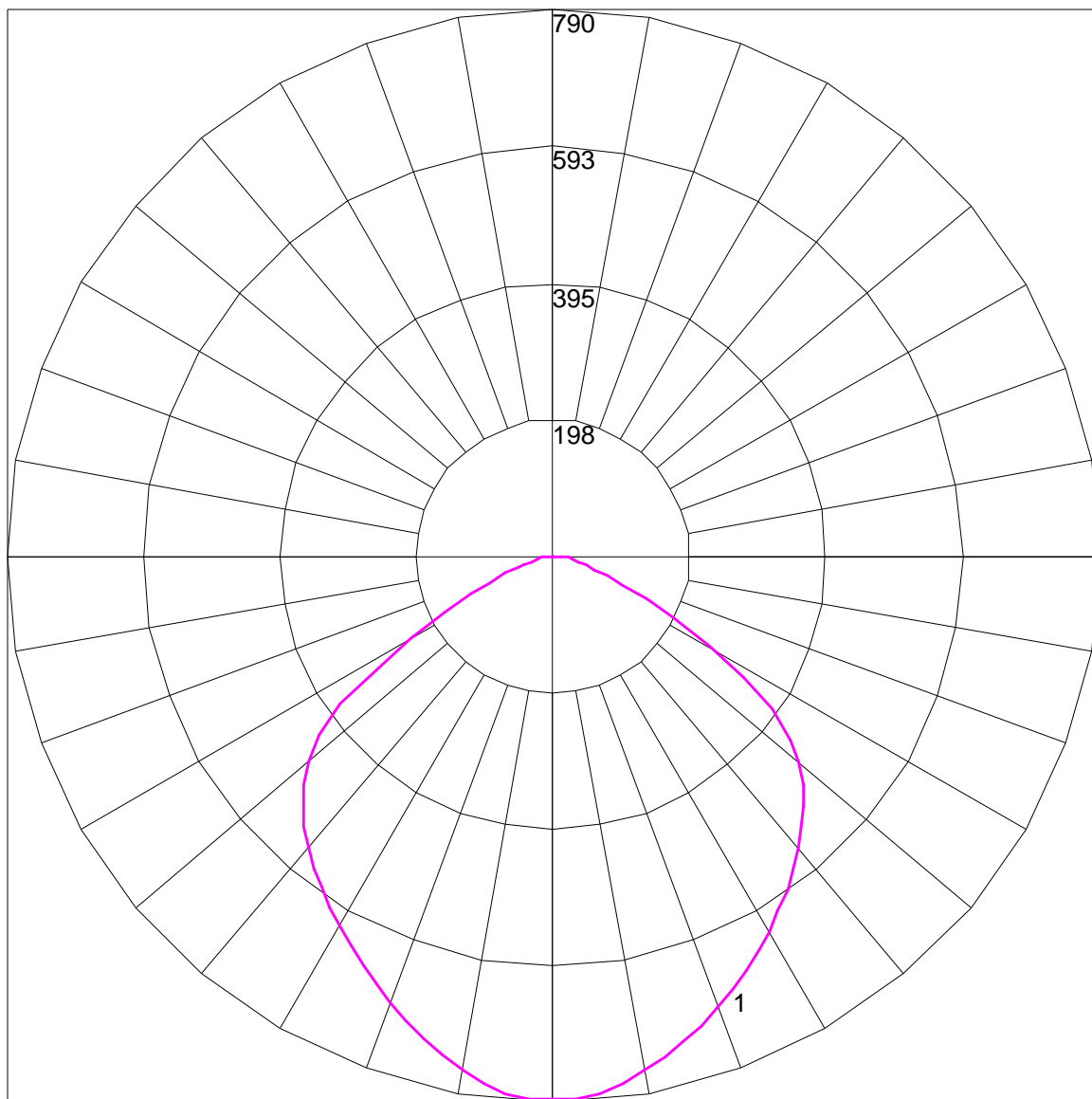
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	102	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	85	82	78	83	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30
10	55	42	35	30	54	42	34	29	41	34	29	40	34	29	39	33	29	27

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00672 ~ ON3012GV-27L35K-EX-WMI.IES

POLAR GRAPH



Maximum Candela = 790.277 Located At Horizontal Angle = 225, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)