

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00642 ~ WS1611GV-27L35K-EXTF2-WMI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00642\_M-27L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 1/31/2018

[UPDATE] 2/19/2018

[LUMDAT] WS1611GV-27L-35K-EX-TF2-MWI

[LUMINAIRE] Warehouse Shade 16" Nom. Diam x 11" H

[OTHER] Regressed, partially obscuring, shallow dome diffuser

[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, 50K x 1.06

[OTHER] This report generated by Spectrum Lighting

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2038
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.33 ft (Diameter)
Luminous Width (90-270)	1.33 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	5648	5641	5599
55	5498	5556	5516
65	3528	3657	3880
75	1582	1648	1758
85	808	895	1006

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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</b>	805.286	805.286	805.286	805.286	805.286	805.286	805.286	805.286	805.286	805.286
<b>5</b>	801.020	798.575	796.621	794.870	794.261	793.681	793.650	797.282	798.217	801.688
<b>10</b>	787.073	781.081	777.307	774.309	774.828	773.950	772.962	777.852	780.809	786.901
<b>15</b>	762.964	755.468	751.152	747.520	747.957	745.454	744.422	748.303	753.837	762.588
<b>20</b>	731.290	722.992	718.539	715.432	715.655	711.887	709.260	713.332	719.748	729.965
<b>25</b>	693.391	685.205	681.198	678.854	678.857	675.446	671.776	675.398	681.936	691.703
<b>30</b>	651.526	644.532	642.630	641.085	640.418	635.973	633.405	636.049	642.889	650.480
<b>35</b>	608.309	604.214	603.411	601.709	600.110	594.642	592.330	595.222	601.968	608.294
<b>40</b>	564.328	563.194	562.228	560.454	557.605	552.355	548.909	553.412	558.354	564.789
<b>45</b>	518.265	518.638	517.598	516.007	513.777	508.183	504.625	507.708	512.816	517.560
<b>50</b>	467.648	469.660	469.623	467.716	465.224	460.285	457.708	458.956	464.012	467.793
<b>55</b>	409.267	412.418	413.547	412.864	410.591	406.832	404.274	404.882	408.826	412.470
<b>60</b>	318.557	325.622	324.851	329.894	331.852	328.806	327.416	328.810	330.033	333.082
<b>65</b>	193.517	192.113	200.593	201.705	212.820	212.539	202.460	208.282	208.554	213.407
<b>70</b>	99.846	98.540	104.359	104.879	110.548	112.147	107.085	108.433	108.659	110.377
<b>75</b>	53.127	53.151	55.339	55.293	59.062	61.294	59.086	60.295	59.054	60.458
<b>80</b>	24.796	24.077	25.038	25.808	26.982	30.716	29.497	29.452	30.534	29.407
<b>85</b>	9.142	8.557	10.120	9.688	11.375	16.197	14.125	15.522	14.992	15.454
<b>90</b>	0.000	0.000	0.000	0.000	1.066	3.278	1.934	3.141	3.030	3.942
<b>95</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>135</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>140</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>145</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>150</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>155</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>160</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>165</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>170</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>180</b>	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>
<b>0</b>	805.286	805.286	805.286	805.286	805.286	805.286	805.286
<b>5</b>	804.830	805.990	807.666	807.217	806.221	804.492	801.020
<b>10</b>	792.902	797.096	798.221	798.823	797.673	792.666	787.073
<b>15</b>	771.039	777.478	779.536	780.302	779.053	770.428	762.964
<b>20</b>	740.331	748.594	752.929	753.440	751.477	739.740	731.290
<b>25</b>	704.217	712.626	718.085	719.042	714.859	702.248	693.391
<b>30</b>	663.313	671.532	676.367	677.666	672.970	660.875	651.526
<b>35</b>	618.145	626.264	629.225	630.447	627.268	616.078	608.309
<b>40</b>	571.551	577.255	580.146	580.635	577.330	568.399	564.328
<b>45</b>	522.737	526.227	527.980	527.326	523.411	518.999	518.265

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**CANDELA TABULATION - (Cont.)**

50	470.570	472.316	471.193	469.172	466.498	464.926	467.648
55	413.021	413.655	410.925	407.016	404.345	404.905	409.267
60	334.681	327.809	324.157	320.430	317.565	324.103	318.557
65	206.843	204.569	194.457	191.409	198.616	186.991	193.517
70	108.758	106.154	101.572	99.163	102.969	96.182	99.846
75	58.242	57.453	54.870	51.825	54.063	52.312	53.127
80	29.646	28.192	27.753	23.683	25.031	24.126	24.796
85	14.795	14.574	13.618	9.736	10.594	9.475	9.142
90	3.478	3.240	0.000	0.000	0.859	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	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	290.51	N.A.	14.30
0-30	609.96	N.A.	29.90
0-40	991.89	N.A.	48.70
0-60	1751.78	N.A.	86.00
0-80	2022.58	N.A.	99.30
0-90	2037.12	N.A.	100.00
10-90	1961.2	N.A.	96.30
20-40	701.38	N.A.	34.40
20-50	1100.7	N.A.	54.00
40-70	966.06	N.A.	47.40
60-80	270.79	N.A.	13.30
70-80	64.63	N.A.	3.20
80-90	14.54	N.A.	0.70
90-110	0.41	N.A.	0.00
90-120	0.41	N.A.	0.00
90-130	0.41	N.A.	0.00
90-150	0.41	N.A.	0.00
90-180	0.41	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2037.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	75.92
10-20	214.59
20-30	319.45
30-40	381.93
40-50	399.31
50-60	360.58
60-70	206.17
70-80	64.63
80-90	14.54
90-100	0.41
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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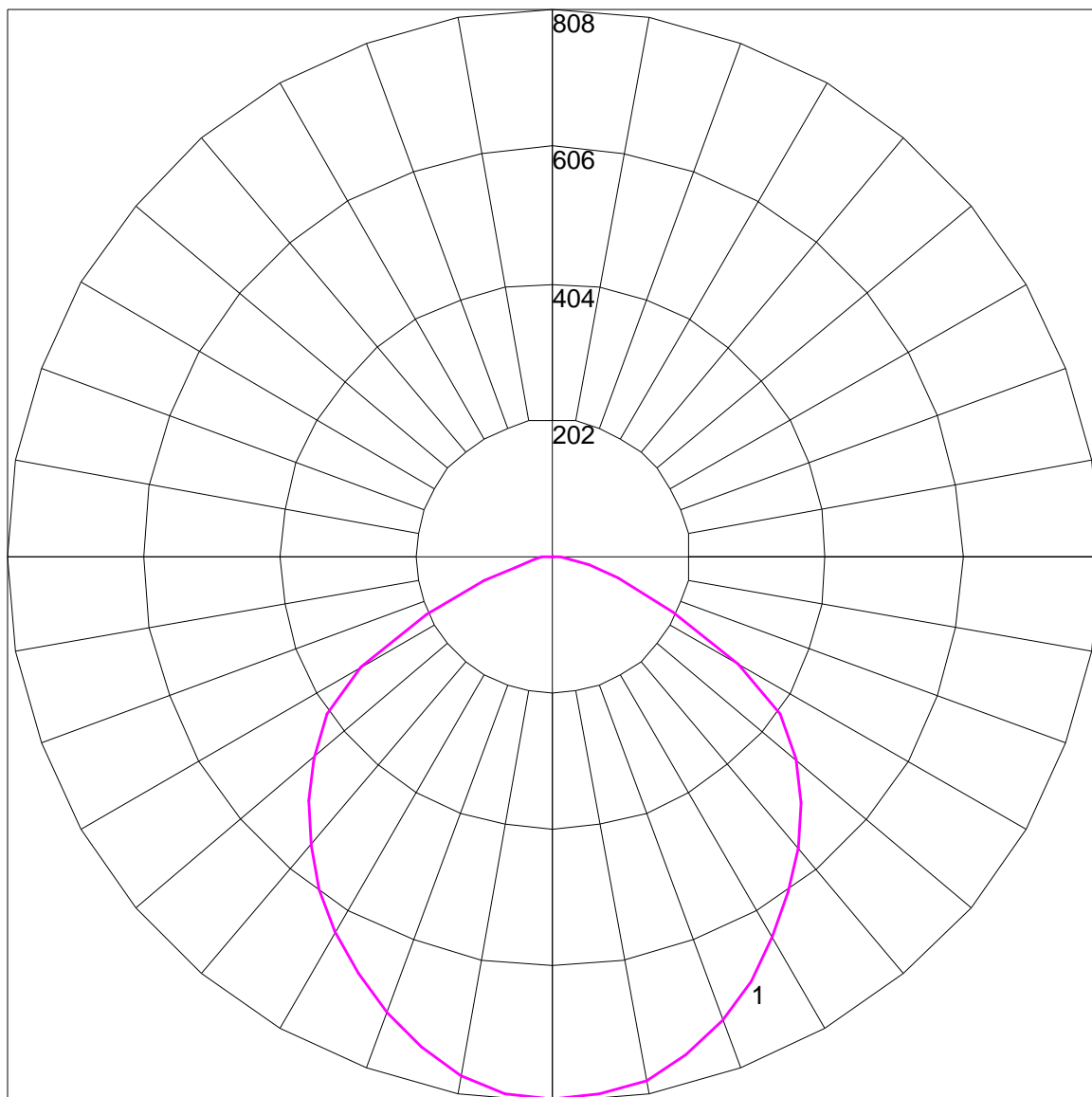
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26

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POLAR GRAPH



Maximum Candela = 807.666 Located At Horizontal Angle = 270, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)