

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00642 ~ WS1611GV-15L35K-EXTF2-WMI.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00642\_M-15L  
 [TESTLAB] Spectrum Photometry Lab VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 1/31/2018  
 [UPDATE] 4/26/2018  
 [LUMCAT] WS1611GV-15L-35K-EX-TF2-MWI  
 [LUMINAIRE] Nom. 16" Diam x 11" H, Warehouse Shade  
 [OTHER] Regressed, 6" diam. low profile frosted glass 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  
 [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	1166
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	10
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	3233	3228	3205
55	3147	3180	3157
65	2020	2093	2221
75	905	943	1006
85	463	512	576

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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>	460.909	460.909	460.909	460.909	460.909	460.909	460.909	460.909	460.909	460.909
<b>5</b>	458.467	457.067	455.949	454.947	454.598	454.267	454.249	456.328	456.863	458.849
<b>10</b>	450.485	447.055	444.895	443.179	443.476	442.973	442.408	445.207	446.899	450.386
<b>15</b>	436.686	432.395	429.925	427.846	428.096	426.664	426.073	428.294	431.462	436.470
<b>20</b>	418.557	413.807	411.259	409.481	409.608	407.451	405.948	408.279	411.951	417.799
<b>25</b>	396.865	392.180	389.886	388.545	388.546	386.594	384.494	386.567	390.309	395.899
<b>30</b>	372.903	368.900	367.812	366.927	366.546	364.002	362.532	364.046	367.960	372.305
<b>35</b>	348.168	345.824	345.365	344.391	343.475	340.346	339.022	340.678	344.539	348.160
<b>40</b>	322.995	322.347	321.794	320.778	319.148	316.143	314.170	316.748	319.576	323.259
<b>45</b>	296.631	296.845	296.250	295.339	294.062	290.861	288.824	290.589	293.512	296.228
<b>50</b>	267.660	268.812	268.791	267.699	266.273	263.446	261.971	262.685	265.579	267.744
<b>55</b>	234.246	236.049	236.695	236.304	235.003	232.852	231.388	231.736	233.993	236.079
<b>60</b>	182.327	186.371	185.930	188.816	189.937	188.193	187.398	188.196	188.896	190.641
<b>65</b>	110.760	109.956	114.810	115.446	121.809	121.647	115.879	119.211	119.367	122.144
<b>70</b>	57.148	56.400	59.730	60.028	63.273	64.188	61.291	62.062	62.192	63.175
<b>75</b>	30.408	30.421	31.673	31.647	33.804	35.082	33.818	34.510	33.800	34.603
<b>80</b>	14.192	13.781	14.330	14.771	15.443	17.581	16.883	16.857	17.476	16.831
<b>85</b>	5.233	4.898	5.792	5.545	6.510	9.270	8.085	8.884	8.581	8.845
<b>90</b>	0.000	0.000	0.000	0.000	0.610	1.876	1.107	1.798	1.734	2.256
<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>	460.909	460.909	460.909	460.909	460.909	460.909	460.909
<b>5</b>	460.648	461.312	462.271	462.014	461.444	460.454	458.467
<b>10</b>	453.821	456.221	456.865	457.210	456.551	453.686	450.485
<b>15</b>	441.307	444.993	446.171	446.609	445.894	440.958	436.686
<b>20</b>	423.731	428.461	430.942	431.234	430.111	423.393	418.557
<b>25</b>	403.062	407.875	410.999	411.547	409.153	401.934	396.865
<b>30</b>	379.650	384.354	387.121	387.865	385.177	378.255	372.903
<b>35</b>	353.798	358.445	360.139	360.839	359.020	352.615	348.168
<b>40</b>	327.130	330.394	332.049	332.329	330.437	325.326	322.995
<b>45</b>	299.191	301.188	302.192	301.817	299.576	297.051	296.631

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**CANDELA TABULATION - (Cont.)**

50	269.332	270.332	269.689	268.533	267.002	266.102	267.660
55	236.394	236.757	235.195	232.957	231.428	231.749	234.246
60	191.556	187.623	185.533	183.400	181.760	185.502	182.327
65	118.388	117.086	111.298	109.554	113.679	107.025	110.760
70	62.248	60.758	58.135	56.757	58.935	55.050	57.148
75	33.335	32.883	31.405	29.662	30.943	29.941	30.408
80	16.968	16.136	15.885	13.555	14.326	13.809	14.192
85	8.468	8.342	7.794	5.572	6.064	5.423	5.233
90	1.990	1.854	0.000	0.000	0.492	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	166.27	N.A.	14.30
0-30	349.11	N.A.	29.90
0-40	567.71	N.A.	48.70
0-60	1002.64	N.A.	86.00
0-80	1157.63	N.A.	99.30
0-90	1165.95	N.A.	100.00
10-90	1122.5	N.A.	96.30
20-40	401.44	N.A.	34.40
20-50	629.99	N.A.	54.00
40-70	552.93	N.A.	47.40
60-80	154.99	N.A.	13.30
70-80	36.99	N.A.	3.20
80-90	8.32	N.A.	0.70
90-110	0.23	N.A.	0.00
90-120	0.23	N.A.	0.00
90-130	0.23	N.A.	0.00
90-150	0.23	N.A.	0.00
90-180	0.23	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1166.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	43.45
10-20	122.82
20-30	182.84
30-40	218.60
40-50	228.55
50-60	206.38
60-70	118.00
70-80	36.99
80-90	8.32
90-100	0.23
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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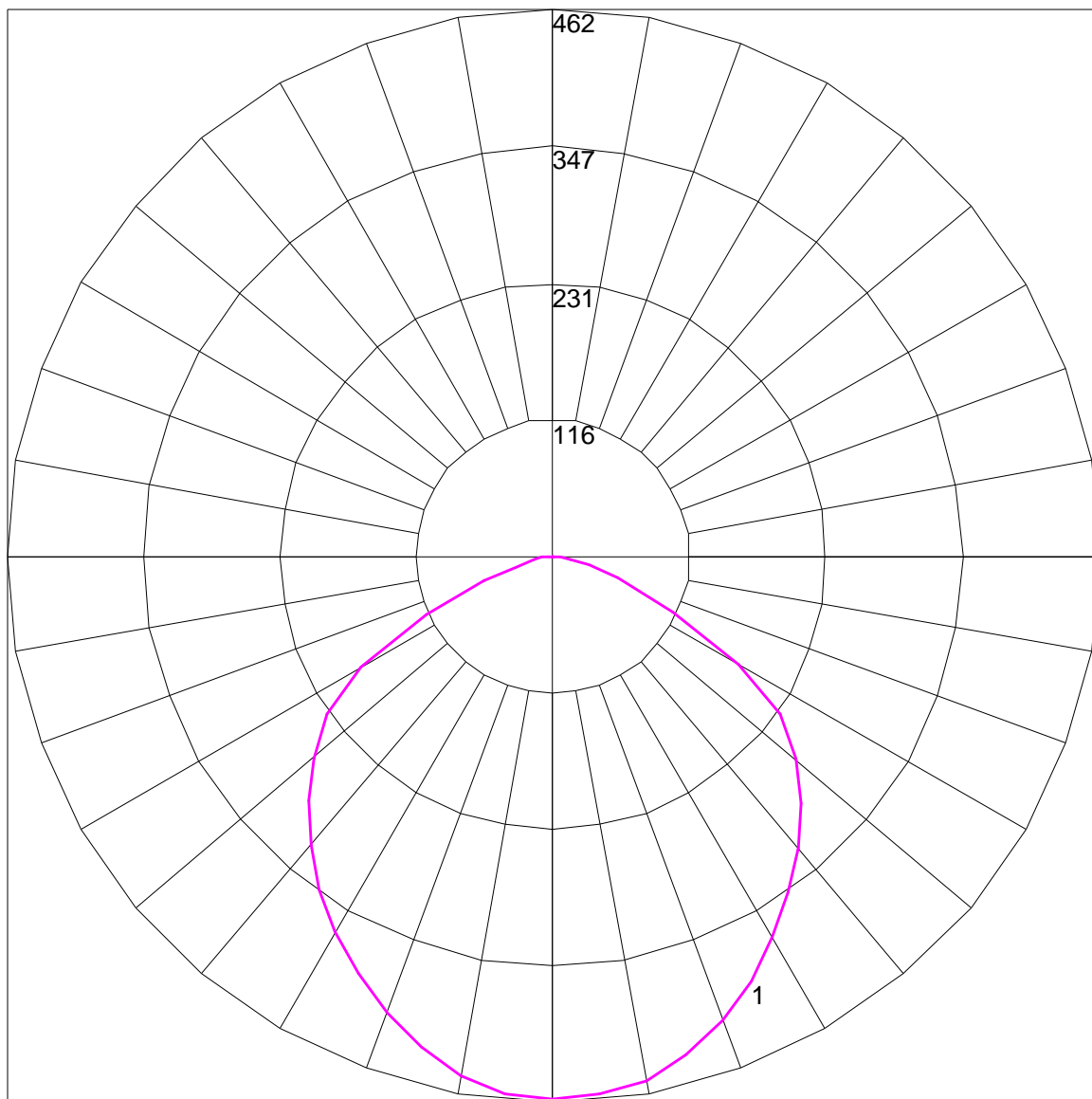
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	107	104	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	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	51	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 = 462.271 Located At Horizontal Angle = 270, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)