

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00511_7 ~ SW1509GV-15L35K-EX-TF1-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00511_7_M-15L

[TESTLAB] Spectrum Photometric Lab VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 4/20/2018

[UPDATE] 4/26/2018

[LUMCAT] SW1509GV-15L-35K-EX-TF1-MWI

[LUMINAIRE] Nom. 15" diam x 9" H, Short Warehouse Shade

[OTHER] Regressed, 6" diam. low profile frosted glass diffuser

[OTHER] Reflector: Matte White interior finish

[OTHER] Beam Angle: 98 degrees

[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 27L

[_CRI]85+

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1150
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.21 ft (Diameter)
Luminous Width (90-270)	1.21 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00511_7 ~ SW1509GV-15L35K-EX-TF1-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3444	3528	3657
55	3043	3171	3342
65	2528	2710	2917
75	2188	2368	2547
85	1824	1906	1974

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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	485.137	485.137	485.137	485.137	485.137	485.137	485.137	485.137	485.137	485.137
2.5	483.167	482.968	484.110	485.306	484.910	484.430	483.971	484.684	483.356	482.328
5.0	479.851	480.393	481.022	483.073	483.184	482.414	482.205	481.214	480.634	478.960
7.5	473.101	474.449	475.902	478.130	479.029	478.628	476.427	474.333	474.104	472.580
10.0	464.779	467.581	468.095	471.942	473.329	472.522	470.158	466.111	466.486	464.510
12.5	453.774	456.772	458.419	462.787	465.073	462.572	460.814	456.497	456.033	453.468
15.0	441.437	445.189	446.515	452.569	454.933	451.320	451.283	445.063	444.995	442.357
17.5	427.216	431.431	433.326	440.668	442.274	438.301	438.006	432.068	432.563	431.146
20.0	412.028	417.386	419.282	428.304	429.019	424.974	424.639	418.828	419.936	418.661
22.5	395.727	401.562	404.846	413.961	415.115	411.303	409.933	405.416	406.011	404.668
25.0	380.477	385.608	390.139	399.218	400.870	396.300	395.125	390.933	391.981	390.736
27.5	366.211	370.682	375.335	384.402	386.314	380.084	379.301	375.842	378.447	376.862
30.0	352.118	355.775	360.146	369.577	371.377	365.062	363.534	361.202	364.912	363.134
32.5	338.161	340.878	344.849	354.553	356.159	350.950	348.132	346.774	350.827	349.524
35.0	323.382	325.954	329.582	339.515	340.681	335.927	332.933	332.326	336.782	335.449
37.5	308.081	310.725	314.321	323.807	325.049	320.342	318.618	317.871	323.251	321.073
40.0	292.643	295.401	298.917	308.047	309.505	304.818	304.124	303.226	309.571	306.877
42.5	277.136	279.440	283.493	291.092	294.006	289.323	289.053	288.529	294.828	292.776
45.0	260.428	263.196	266.786	274.040	276.471	272.784	273.703	272.818	279.677	276.400
47.5	243.223	245.643	249.980	255.786	258.151	255.828	257.639	256.898	262.498	259.051
50.0	224.813	227.925	231.612	237.506	240.594	238.400	241.148	239.699	245.169	241.135
52.5	206.021	209.636	213.202	219.038	223.258	220.826	223.798	222.326	227.302	223.032
55.0	186.654	191.199	194.493	200.550	204.995	202.517	205.968	203.154	209.042	203.268
57.5	167.152	172.373	175.835	181.964	186.524	184.044	187.364	183.848	189.719	183.089
60.0	148.702	153.738	157.818	163.540	167.501	165.829	168.314	165.331	170.171	164.313
62.5	130.430	135.508	139.879	145.685	148.394	147.655	148.670	146.840	150.133	145.789
65.0	114.256	118.366	122.486	128.446	131.815	130.247	130.247	128.616	131.063	127.905
67.5	98.349	102.991	105.909	112.762	115.496	112.993	113.116	110.690	113.608	110.132
70.0	85.082	88.797	92.123	97.842	100.258	98.381	97.505	94.652	97.393	95.377
72.5	72.269	75.639	78.652	83.883	85.186	83.611	82.789	79.647	82.295	81.014
75.0	60.557	63.977	65.528	69.614	70.492	68.468	68.342	66.233	68.636	67.633
77.5	50.062	52.456	53.100	55.584	56.516	54.177	54.308	52.064	54.561	53.220
80.0	39.321	40.818	40.819	42.367	42.862	40.527	40.903	38.584	39.350	38.536
82.5	27.706	30.888	28.971	29.940	29.705	27.980	28.391	26.458	25.909	25.140
85.0	16.997	18.713	17.766	19.684	18.397	17.342	15.779	16.049	15.870	15.481
87.5	8.169	9.320	8.131	9.746	9.884	8.734	9.111	7.216	7.122	6.200
90.0	2.015	1.051	1.925	1.793	2.867	2.372	0.747	1.776	0.763	1.658
92.5	0.000	0.000	0.000	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	0.000	0.000	0.000
97.5	0.000	0.000	0.000	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	0.000	0.000	0.000
102.5	0.000	0.000	0.000	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	0.000	0.000	0.000
107.5	0.000	0.000	0.000	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	0.000	0.000	0.000
112.5	0.000	0.000	0.000	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	0.000	0.000	0.000
117.5	0.000	0.000	0.000	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	0.000	0.000	0.000
122.5	0.000	0.000	0.000	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	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	485.137	485.137	485.137	485.137	485.137	485.137	485.137
2.5	482.960	482.033	482.309	483.348	482.593	483.047	483.167
5.0	478.603	477.509	477.771	479.796	479.151	478.531	479.851
7.5	472.411	471.436	471.112	472.663	471.961	471.844	473.101
10.0	464.759	463.234	463.809	464.461	463.677	464.022	464.779
12.5	454.686	452.552	453.308	454.022	452.208	452.954	453.774
15.0	443.056	440.877	442.079	443.096	440.137	440.546	441.437
17.5	430.406	428.233	428.499	429.564	426.687	427.527	427.216
20.0	417.220	415.189	414.555	415.642	412.787	414.311	412.028
22.5	403.891	401.829	400.694	401.560	398.059	399.208	395.727
25.0	390.500	387.635	386.842	387.464	383.232	383.645	380.477
27.5	376.483	372.905	372.399	373.098	368.257	368.157	366.211
30.0	362.264	358.545	357.918	358.697	352.899	352.682	352.118
32.5	348.495	344.382	342.353	342.716	337.066	338.616	338.161
35.0	334.836	329.806	326.791	326.697	321.500	324.707	323.382
37.5	319.288	315.058	311.275	310.118	306.204	309.082	308.081
40.0	303.409	299.626	295.641	293.718	290.415	293.365	292.643
42.5	287.576	283.973	279.035	278.687	274.223	276.745	277.136
45.0	271.747	266.455	262.284	263.145	257.127	260.092	260.428
47.5	254.166	248.471	244.770	244.919	239.415	242.789	243.223
50.0	236.486	230.007	226.932	226.425	220.803	225.227	224.813
52.5	217.990	211.460	207.836	206.936	201.698	205.283	206.021
55.0	199.472	192.538	188.767	187.558	183.048	185.501	186.654
57.5	180.537	173.574	169.783	168.496	164.596	166.650	167.152
60.0	161.706	154.921	151.124	150.077	146.767	148.009	148.702
62.5	143.877	136.285	133.200	133.109	129.156	130.242	130.430
65.0	126.271	118.640	116.092	116.420	113.105	113.094	114.256

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CANDELA TABULATION - (Cont.)

67.5	109.845	101.440	100.429	100.210	97.457	97.737	98.349
70.0	93.908	87.978	85.924	85.642	83.315	83.674	85.082
72.5	78.979	74.894	72.519	72.593	70.041	71.422	72.269
75.0	65.371	62.454	60.327	61.494	59.731	60.380	60.557
77.5	52.236	48.479	48.247	50.418	49.609	49.752	50.062
80.0	38.358	35.230	35.995	38.657	38.918	39.140	39.321
82.5	25.423	23.771	25.014	26.039	26.831	28.076	27.706
85.0	14.288	13.877	15.212	15.203	15.473	17.524	16.997
87.5	6.368	5.594	6.185	7.191	7.538	7.934	8.169
90.0	0.867	1.348	1.134	0.752	2.000	1.010	2.015
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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Zone	Lumens	%Lamp	%Fixt
0-20	170.65	N.A.	14.80
0-30	350.35	N.A.	30.50
0-40	557.46	N.A.	48.50
0-60	939.53	N.A.	81.70
0-80	1130.61	N.A.	98.30
0-90	1150.19	N.A.	100.00
10-90	1104.79	N.A.	96.00
20-40	386.81	N.A.	33.60
20-50	593.60	N.A.	51.60
40-70	504.45	N.A.	43.80
60-80	191.08	N.A.	16.60
70-80	68.71	N.A.	6.00
80-90	19.58	N.A.	1.70
90-110	0.21	N.A.	0.00
90-120	0.21	N.A.	0.00
90-130	0.21	N.A.	0.00
90-150	0.21	N.A.	0.00
90-180	0.21	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1150.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	45.40
10-20	125.25
20-30	179.69
30-40	207.11
40-50	206.79
50-60	175.28
60-70	122.38
70-80	68.71
80-90	19.58
90-100	0.21
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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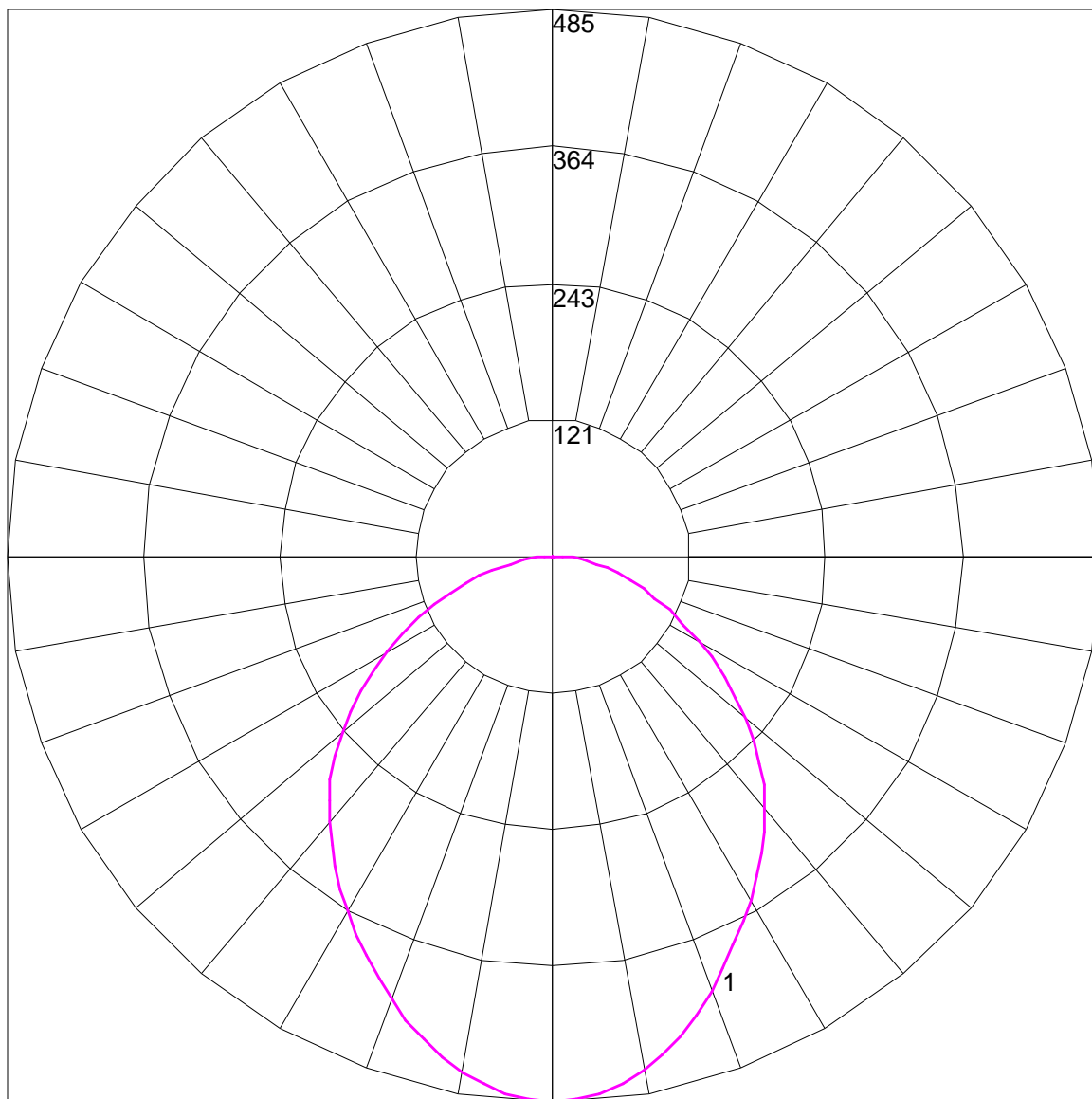
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	58	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

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POLAR GRAPH



Maximum Candela = 485.306 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)