

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00665 ~ SW1910GV-15L35KEX-TF2-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00665_M-15L
[TESTLAB] Spectrum Photometric Lab VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 4/20/2018
[UPDATE] 4/26/2018
[LUMCAT] SW1910GV-15L-35K-EX-TF2-MWI
[LUMINAIRE] Nom. 19" diam x 10" H, Short Warehouse Shade
[OTHER] Regressed, 6" diam. low profile frosted glass diffuser
[OTHER] Reflector: Matte White interior finish
[OTHER] Beam Angle: 106 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 55L
[_CRI]85+

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1202
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.54 ft (Diameter)
Luminous Width (90-270)	1.54 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00665 ~ SW1910GV-15L35KEX-TF2-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2315	2340	2313
55	2224	2220	2182
65	2054	2025	1976
75	1874	1814	1777
85	1432	1290	1291

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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	454.397	454.397	454.397	454.397	454.397	454.397	454.397	454.397	454.397	454.397
2.5	455.679	456.906	457.561	457.815	457.343	453.632	452.462	451.724	451.477	451.595
5.0	453.869	455.964	456.456	456.438	455.432	450.272	449.083	446.295	446.036	445.394
7.5	451.376	453.843	455.108	454.836	453.102	446.498	444.626	440.654	440.372	438.598
10.0	445.649	448.820	450.229	450.124	447.635	439.738	437.724	432.828	431.418	429.725
12.5	439.243	443.117	445.060	445.162	441.964	432.570	429.682	424.757	422.358	420.637
15.0	430.711	436.169	437.407	437.348	433.804	423.608	419.702	414.117	412.156	409.711
17.5	421.457	427.916	429.310	429.221	425.439	414.030	409.144	403.348	401.705	398.691
20.0	410.568	417.836	419.017	419.300	414.590	402.635	397.844	391.868	389.818	386.439
22.5	399.432	406.889	408.273	409.034	403.570	390.804	385.964	380.158	377.882	374.260
25.0	387.876	395.019	396.070	397.460	391.504	378.034	373.506	367.604	365.773	362.739
27.5	375.943	382.856	383.648	385.616	379.228	365.326	360.712	355.188	353.822	351.159
30.0	363.524	370.452	370.705	373.061	366.138	352.718	347.660	343.123	342.284	339.295
32.5	350.852	357.409	357.643	360.222	353.062	339.953	335.303	331.090	330.498	327.475
35.0	337.927	343.961	344.373	346.830	340.022	326.992	323.350	319.118	318.236	315.807
37.5	324.951	329.996	330.662	333.025	326.704	314.013	311.065	307.101	306.410	304.060
40.0	311.935	315.788	316.367	318.610	312.828	301.014	298.635	295.018	295.206	292.123
42.5	297.997	301.610	301.697	303.719	298.434	287.595	285.906	282.722	283.467	280.139
45.0	283.521	287.443	286.636	288.296	283.260	273.867	273.083	270.193	271.127	268.071
47.5	268.607	271.893	271.158	272.465	267.605	259.440	259.504	257.251	258.137	255.239
50.0	253.499	256.013	255.348	256.278	251.399	244.625	245.769	243.959	244.592	241.373
52.5	237.371	239.329	238.309	238.878	234.431	228.559	230.373	228.901	229.940	226.871
55.0	220.921	222.530	220.537	220.667	216.779	211.966	214.769	212.690	214.570	211.711
57.5	203.408	204.904	202.742	202.382	198.849	194.809	197.514	195.797	197.770	195.351
60.0	185.674	187.221	184.939	184.062	180.729	177.485	180.159	178.573	180.254	178.034
62.5	168.002	169.204	166.654	165.632	162.685	159.363	161.841	160.521	161.995	160.099
65.0	150.337	151.230	148.212	147.162	144.679	141.088	143.584	142.172	143.466	141.786
67.5	132.767	133.831	130.777	129.717	127.409	124.002	126.008	124.215	125.713	123.961
70.0	115.248	116.589	113.560	112.536	110.420	107.049	108.656	106.355	108.151	106.359
72.5	99.683	100.404	97.370	96.852	94.845	91.247	92.562	90.498	92.037	90.346
75.0	84.001	84.124	81.317	81.408	79.645	75.465	76.552	74.948	76.156	74.860
77.5	67.021	67.457	64.013	64.957	63.015	59.091	60.842	58.657	60.156	58.776
80.0	50.347	51.048	46.700	48.422	46.146	43.028	45.462	42.311	44.148	42.557
82.5	35.400	35.355	32.894	34.383	32.665	29.962	30.935	29.338	30.955	29.579
85.0	21.616	21.629	19.476	20.657	19.488	17.615	18.252	16.697	18.044	17.033
87.5	12.006	11.986	10.718	11.674	10.756	9.007	9.052	8.775	9.647	9.031
90.0	4.378	4.924	3.006	3.534	2.463	2.133	2.950	1.753	2.163	1.361
92.5	1.887	1.858	1.502	1.730	1.389	1.099	1.238	0.933	1.108	0.879
95.0	0.249	0.226	0.310	0.272	0.433	0.347	0.325	0.279	0.257	0.429
97.5	0.225	0.279	0.308	0.335	0.395	0.282	0.299	0.325	0.284	0.368
100.0	0.244	0.313	0.325	0.364	0.378	0.240	0.282	0.343	0.307	0.310
102.5	0.324	0.330	0.392	0.294	0.456	0.238	0.273	0.281	0.321	0.270
105.0	0.361	0.355	0.417	0.276	0.503	0.274	0.275	0.257	0.314	0.237
107.5	0.349	0.387	0.361	0.373	0.453	0.360	0.282	0.317	0.260	0.236
110.0	0.345	0.377	0.357	0.422	0.407	0.370	0.297	0.352	0.253	0.242
112.5	0.348	0.344	0.429	0.392	0.372	0.298	0.316	0.349	0.324	0.263
115.0	0.355	0.320	0.438	0.350	0.369	0.277	0.291	0.328	0.329	0.289
117.5	0.365	0.299	0.373	0.291	0.422	0.297	0.250	0.287	0.255	0.325
120.0	0.409	0.303	0.351	0.272	0.470	0.303	0.253	0.266	0.233	0.347
122.5	0.469	0.314	0.365	0.291	0.511	0.300	0.266	0.263	0.259	0.349
125.0	0.453	0.281	0.359	0.309	0.513	0.299	0.270	0.268	0.265	0.345

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CANDELA TABULATION - (Cont.)

127.5	0.409	0.241	0.338	0.327	0.474	0.300	0.271	0.276	0.256	0.334
130.0	0.431	0.276	0.330	0.333	0.461	0.279	0.279	0.306	0.250	0.310
132.5	0.470	0.319	0.329	0.333	0.467	0.251	0.288	0.347	0.244	0.274
135.0	0.409	0.335	0.313	0.364	0.477	0.309	0.246	0.338	0.293	0.279
137.5	0.332	0.350	0.292	0.409	0.489	0.386	0.210	0.308	0.363	0.311
140.0	0.311	0.318	0.346	0.374	0.449	0.392	0.286	0.269	0.373	0.371
142.5	0.294	0.292	0.419	0.315	0.386	0.388	0.356	0.227	0.364	0.444
145.0	0.389	0.315	0.448	0.391	0.389	0.381	0.381	0.259	0.382	0.426
147.5	0.476	0.336	0.469	0.494	0.413	0.373	0.404	0.306	0.405	0.374
150.0	0.429	0.353	0.419	0.501	0.493	0.346	0.416	0.353	0.427	0.369
152.5	0.392	0.361	0.364	0.498	0.584	0.318	0.414	0.400	0.449	0.378
155.0	0.424	0.345	0.384	0.431	0.556	0.274	0.373	0.409	0.405	0.359
157.5	0.442	0.359	0.396	0.365	0.514	0.244	0.349	0.414	0.362	0.335
160.0	0.417	0.432	0.335	0.348	0.513	0.273	0.355	0.374	0.364	0.382
162.5	0.374	0.457	0.355	0.344	0.512	0.298	0.347	0.339	0.363	0.402
165.0	0.313	0.444	0.514	0.365	0.514	0.316	0.331	0.310	0.357	0.337
167.5	0.439	0.367	0.495	0.470	0.477	0.356	0.389	0.355	0.348	0.370
170.0	0.396	0.364	0.498	0.420	0.464	0.398	0.316	0.394	0.347	0.397
172.5	0.308	0.359	0.505	0.254	0.463	0.409	0.247	0.376	0.381	0.362
175.0	0.413	0.346	0.382	0.400	0.324	0.365	0.409	0.332	0.421	0.368
177.5	0.480	0.449	0.387	0.431	0.383	0.332	0.374	0.377	0.473	0.357
180.0	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391

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	454.397	454.397	454.397	454.397	454.397	454.397	454.397
2.5	452.595	452.692	454.162	452.522	453.474	454.308	455.679
5.0	446.466	446.416	448.666	448.491	450.013	452.179	453.869
7.5	439.921	439.612	442.325	444.167	445.794	449.370	451.376
10.0	431.104	430.430	433.445	435.953	438.294	443.378	445.649
12.5	421.867	420.923	423.893	427.412	430.384	436.540	439.243
15.0	411.158	410.396	412.870	416.815	420.090	426.972	430.711
17.5	400.113	399.492	401.448	405.961	409.656	417.010	421.457
20.0	388.233	387.744	389.379	394.106	398.116	406.146	410.568
22.5	376.327	375.858	377.470	382.327	386.555	395.015	399.432
25.0	364.373	363.742	365.767	370.757	374.765	383.426	387.876
27.5	352.393	351.670	354.001	359.108	362.928	371.456	375.943
30.0	340.377	339.653	342.176	347.298	350.826	358.986	363.524
32.5	328.560	327.776	330.357	335.410	338.733	346.522	350.852
35.0	316.962	316.036	318.543	323.405	326.669	334.065	337.927
37.5	305.338	303.980	306.305	311.279	314.529	321.621	324.951
40.0	293.692	291.688	293.824	299.010	302.187	309.187	311.935
42.5	281.579	279.298	281.078	286.415	289.714	296.229	297.997
45.0	269.171	266.852	268.220	273.529	276.990	282.960	283.521
47.5	255.938	253.426	254.726	259.723	263.329	268.475	268.607
50.0	242.305	239.579	241.043	245.290	248.322	253.455	253.499
52.5	228.065	224.752	225.790	230.317	232.854	237.838	237.371
55.0	213.611	209.622	210.220	215.060	216.865	222.030	220.921
57.5	197.170	193.257	193.907	198.502	199.978	205.095	203.408
60.0	180.256	176.634	177.511	181.445	182.322	187.915	185.674
62.5	162.517	159.119	160.725	164.226	164.761	170.338	168.002
65.0	144.654	141.499	143.910	146.962	147.263	152.712	150.337

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CANDELA TABULATION - (Cont.)

67.5	126.888	124.229	126.510	130.375	130.245	135.296	132.767
70.0	109.135	107.016	109.324	113.905	113.468	117.911	115.248
72.5	93.264	91.656	94.171	98.522	97.797	101.742	99.683
75.0	77.388	76.259	78.923	83.237	82.527	85.593	84.001
77.5	61.450	60.492	63.188	67.585	66.747	69.659	67.021
80.0	45.795	44.994	47.742	51.955	50.837	53.737	50.347
82.5	32.023	30.969	33.308	36.923	36.290	37.882	35.400
85.0	19.180	18.077	20.240	22.505	21.962	23.303	21.616
87.5	10.186	9.254	10.525	12.870	12.508	13.458	12.006
90.0	3.090	2.548	3.545	4.516	3.429	5.514	4.378
92.5	1.441	1.150	1.565	2.098	1.773	2.467	1.887
95.0	0.313	0.268	0.372	0.272	0.269	0.438	0.249
97.5	0.263	0.350	0.278	0.310	0.388	0.384	0.225
100.0	0.236	0.371	0.240	0.359	0.487	0.350	0.244
102.5	0.244	0.306	0.261	0.431	0.454	0.344	0.324
105.0	0.249	0.303	0.282	0.467	0.426	0.333	0.361
107.5	0.249	0.366	0.304	0.439	0.422	0.313	0.349
110.0	0.244	0.357	0.338	0.395	0.403	0.321	0.345
112.5	0.232	0.286	0.379	0.329	0.339	0.351	0.348
115.0	0.218	0.288	0.380	0.333	0.316	0.338	0.355
117.5	0.202	0.335	0.361	0.404	0.376	0.298	0.365
120.0	0.227	0.357	0.329	0.422	0.417	0.335	0.409
122.5	0.273	0.367	0.294	0.400	0.429	0.410	0.469
125.0	0.273	0.359	0.312	0.412	0.422	0.439	0.453
127.5	0.255	0.346	0.342	0.445	0.395	0.451	0.409
130.0	0.297	0.350	0.344	0.398	0.359	0.454	0.431
132.5	0.356	0.359	0.342	0.317	0.315	0.455	0.470
135.0	0.365	0.384	0.359	0.350	0.343	0.457	0.409
137.5	0.365	0.412	0.377	0.418	0.424	0.459	0.332
140.0	0.348	0.362	0.323	0.414	0.394	0.407	0.311
142.5	0.330	0.307	0.279	0.393	0.302	0.350	0.294
145.0	0.365	0.283	0.379	0.400	0.323	0.410	0.389
147.5	0.397	0.271	0.460	0.411	0.391	0.465	0.476
150.0	0.340	0.412	0.418	0.412	0.417	0.435	0.429
152.5	0.285	0.522	0.392	0.412	0.430	0.416	0.392
155.0	0.246	0.415	0.431	0.406	0.492	0.480	0.424
157.5	0.240	0.353	0.469	0.396	0.565	0.514	0.442
160.0	0.360	0.439	0.501	0.366	0.466	0.451	0.417
162.5	0.403	0.440	0.471	0.368	0.379	0.405	0.374
165.0	0.359	0.352	0.390	0.422	0.356	0.377	0.313
167.5	0.302	0.450	0.384	0.331	0.403	0.296	0.439
170.0	0.284	0.488	0.363	0.388	0.431	0.299	0.396
172.5	0.284	0.466	0.333	0.499	0.401	0.387	0.308
175.0	0.282	0.465	0.366	0.304	0.471	0.390	0.413
177.5	0.412	0.399	0.394	0.337	0.324	0.375	0.480
180.0	0.391	0.391	0.391	0.391	0.391	0.391	0.391

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	161.58	N.A.	13.40
0-30	335.55	N.A.	27.90
0-40	541.08	N.A.	45.00
0-60	946.85	N.A.	78.80
0-80	1174.89	N.A.	97.80
0-90	1199.03	N.A.	99.80
10-90	1156.36	N.A.	96.20
20-40	379.50	N.A.	31.60
20-50	592.65	N.A.	49.30
40-70	550.18	N.A.	45.80
60-80	228.04	N.A.	19.00
70-80	83.63	N.A.	7.00
80-90	24.14	N.A.	2.00
90-110	1.42	N.A.	0.10
90-120	1.75	N.A.	0.10
90-130	2.06	N.A.	0.20
90-150	2.56	N.A.	0.20
90-180	2.90	N.A.	0.20
110-180	1.48	N.A.	0.10
0-180	1201.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.67
10-20	118.91
20-30	173.97
30-40	205.53
40-50	213.15
50-60	192.62
60-70	144.41
70-80	83.63
80-90	24.14
90-100	1.07
100-110	0.35
110-120	0.33
120-130	0.31
130-140	0.27
140-150	0.23
150-160	0.19
160-170	0.11
170-180	0.04

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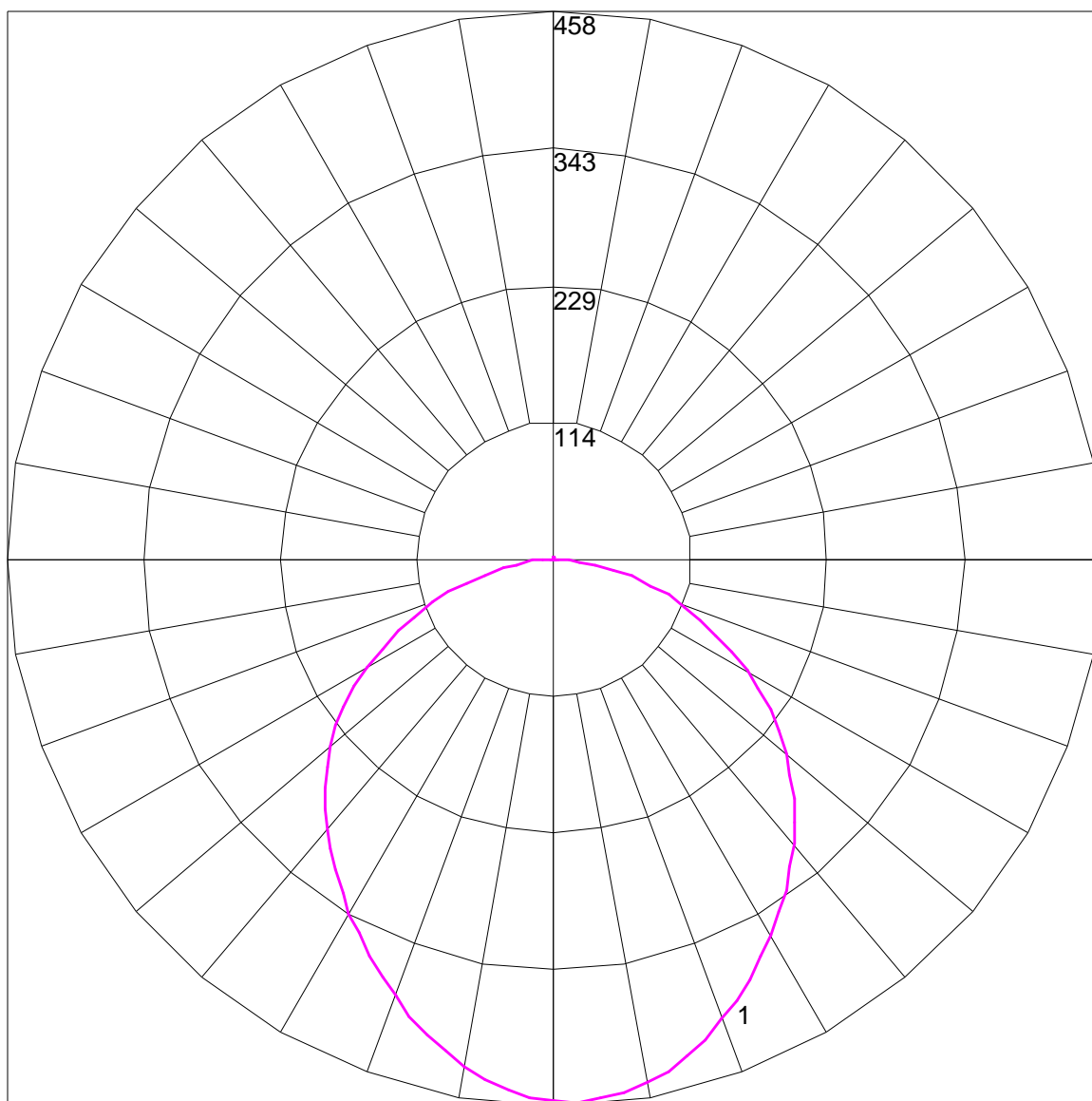
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	83
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	69	65	61	59
4	82	70	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	42	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	31	26	24

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POLAR GRAPH



Maximum Candela = 457.815 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)