

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00665 ~ SW1910GV-37L35KEX-TF2-MWI.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00665_M-37L
 [TESTLAB] Spectrum Photometric Lab VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 4/20/2018
 [UPDATE] 4/26/2018
 [LUMCAT] SW1910GV-37L-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	3080
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	26
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-37L35KEX-TF2-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5931	5997	5926
55	5698	5688	5591
65	5262	5188	5064
75	4801	4648	4552
85	3669	3306	3308

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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	1164.285	1164.285	1164.285	1164.285	1164.285	1164.285	1164.285	1164.285	1164.285	1164.285
2.5	1167.570	1170.715	1172.393	1173.043	1171.835	1162.325	1159.326	1157.436	1156.802	1157.107
5.0	1162.934	1168.300	1169.561	1169.514	1166.936	1153.715	1150.670	1143.525	1142.861	1141.217
7.5	1156.545	1162.866	1166.106	1165.409	1160.968	1144.046	1139.249	1129.072	1128.351	1123.804
10.0	1141.870	1149.994	1153.605	1153.338	1146.960	1126.725	1121.565	1109.019	1105.407	1101.068
12.5	1125.457	1135.384	1140.362	1140.622	1132.427	1108.358	1100.960	1088.341	1082.192	1077.782
15.0	1103.594	1117.580	1120.753	1120.601	1111.522	1085.394	1075.387	1061.077	1056.053	1049.787
17.5	1079.885	1096.434	1100.007	1099.778	1090.088	1060.854	1048.335	1033.484	1029.274	1021.553
20.0	1051.984	1070.606	1073.631	1074.358	1062.289	1031.658	1019.383	1004.070	998.816	990.159
22.5	1023.451	1042.558	1046.103	1048.053	1034.052	1001.344	988.942	974.066	968.234	958.954
25.0	993.841	1012.144	1014.837	1018.399	1003.136	968.624	957.021	941.899	937.207	929.433
27.5	963.265	980.979	983.008	988.050	971.683	936.062	924.239	910.085	906.585	899.763
30.0	931.445	949.197	949.843	955.881	938.143	903.758	890.796	879.172	877.022	869.362
32.5	898.976	915.777	916.375	922.983	904.638	871.048	859.136	848.341	846.822	839.078
35.0	865.859	881.318	882.375	888.671	871.226	837.841	828.509	817.665	815.406	809.181
37.5	832.611	845.538	847.243	853.299	837.102	804.583	797.031	786.873	785.103	779.081
40.0	799.261	809.132	810.617	816.363	801.549	771.277	765.183	755.913	756.397	748.497
42.5	763.546	772.804	773.027	778.209	764.666	736.895	732.567	724.408	726.317	717.791
45.0	726.457	736.504	734.438	738.692	725.788	701.719	699.710	692.306	694.699	686.868
47.5	688.243	696.661	694.777	698.126	685.674	664.754	664.918	659.145	661.416	653.990
50.0	649.531	655.972	654.269	656.652	644.150	626.795	629.724	625.087	626.709	618.462
52.5	608.207	613.224	610.612	612.069	600.673	585.629	590.276	586.504	589.167	581.303
55.0	566.058	570.180	565.073	565.406	555.445	543.112	550.294	544.967	549.785	542.459
57.5	521.185	525.019	519.480	518.557	509.504	499.151	506.082	501.684	506.738	500.541
60.0	475.745	479.709	473.863	471.615	463.076	454.762	461.616	457.552	461.859	456.169
62.5	430.464	433.544	427.012	424.394	416.842	408.331	414.678	411.297	415.073	410.217
65.0	385.204	387.490	379.759	377.069	370.707	361.506	367.900	364.283	367.598	363.293
67.5	340.185	342.909	335.085	332.368	326.455	317.725	322.867	318.270	322.109	317.622
70.0	295.295	298.733	290.972	288.346	282.926	274.287	278.406	272.509	277.111	272.520
72.5	255.415	257.262	249.488	248.160	243.018	233.799	237.169	231.881	235.824	231.491
75.0	215.234	215.548	208.357	208.588	204.073	193.362	196.146	192.037	195.132	191.812
77.5	171.727	172.844	164.019	166.437	161.461	151.407	155.893	150.295	154.136	150.601
80.0	129.003	130.798	119.658	124.069	118.238	110.249	116.485	108.413	113.118	109.042
82.5	90.704	90.589	84.284	88.098	83.697	76.770	79.262	75.173	79.315	75.789
85.0	55.385	55.419	49.903	52.929	49.933	45.135	46.766	42.783	46.234	43.643
87.5	30.763	30.712	27.462	29.911	27.559	23.079	23.195	22.485	24.718	23.140
90.0	11.217	12.618	7.703	9.054	6.311	5.465	7.559	4.492	5.543	3.488
92.5	4.834	4.760	3.848	4.433	3.559	2.817	3.172	2.391	2.840	2.252
95.0	0.637	0.578	0.794	0.696	1.109	0.888	0.832	0.714	0.658	1.100
97.5	0.576	0.714	0.790	0.858	1.012	0.722	0.765	0.832	0.727	0.943
100.0	0.625	0.802	0.833	0.934	0.970	0.614	0.722	0.878	0.788	0.794
102.5	0.830	0.845	1.004	0.754	1.169	0.611	0.701	0.719	0.824	0.691
105.0	0.924	0.911	1.067	0.708	1.289	0.701	0.703	0.659	0.804	0.608
107.5	0.894	0.992	0.925	0.956	1.160	0.923	0.722	0.812	0.665	0.606
110.0	0.883	0.966	0.915	1.082	1.044	0.949	0.762	0.903	0.649	0.619
112.5	0.892	0.883	1.099	1.005	0.952	0.765	0.811	0.894	0.829	0.674
115.0	0.910	0.820	1.121	0.896	0.946	0.710	0.746	0.841	0.844	0.740
117.5	0.936	0.766	0.956	0.747	1.082	0.761	0.640	0.735	0.653	0.832
120.0	1.047	0.777	0.899	0.697	1.205	0.776	0.648	0.680	0.596	0.889
122.5	1.200	0.805	0.936	0.745	1.310	0.769	0.682	0.675	0.663	0.894
125.0	1.160	0.721	0.919	0.792	1.313	0.767	0.691	0.686	0.679	0.884

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CANDELA TABULATION - (Cont.)

127.5	1.049	0.617	0.866	0.837	1.214	0.768	0.695	0.707	0.657	0.856
130.0	1.105	0.708	0.846	0.854	1.181	0.715	0.716	0.784	0.640	0.794
132.5	1.204	0.818	0.842	0.852	1.197	0.643	0.738	0.890	0.626	0.702
135.0	1.048	0.860	0.802	0.933	1.223	0.791	0.629	0.866	0.750	0.714
137.5	0.851	0.896	0.748	1.048	1.254	0.989	0.538	0.790	0.931	0.797
140.0	0.797	0.815	0.885	0.957	1.150	1.005	0.734	0.690	0.955	0.950
142.5	0.753	0.748	1.073	0.806	0.989	0.995	0.913	0.582	0.932	1.138
145.0	0.996	0.807	1.147	1.001	0.997	0.975	0.977	0.665	0.978	1.093
147.5	1.219	0.862	1.202	1.265	1.059	0.955	1.034	0.784	1.039	0.958
150.0	1.100	0.904	1.075	1.284	1.263	0.886	1.065	0.904	1.095	0.947
152.5	1.006	0.925	0.933	1.276	1.497	0.815	1.061	1.025	1.151	0.968
155.0	1.086	0.883	0.983	1.103	1.424	0.703	0.956	1.049	1.037	0.919
157.5	1.133	0.919	1.015	0.936	1.316	0.625	0.894	1.061	0.928	0.858
160.0	1.068	1.108	0.858	0.892	1.313	0.700	0.910	0.959	0.932	0.979
162.5	0.959	1.170	0.910	0.881	1.313	0.763	0.889	0.868	0.930	1.029
165.0	0.801	1.139	1.318	0.934	1.318	0.810	0.847	0.794	0.915	0.864
167.5	1.124	0.940	1.268	1.203	1.223	0.913	0.996	0.910	0.892	0.947
170.0	1.015	0.933	1.277	1.076	1.189	1.019	0.810	1.010	0.889	1.017
172.5	0.788	0.920	1.295	0.652	1.186	1.048	0.634	0.962	0.975	0.927
175.0	1.058	0.886	0.978	1.024	0.829	0.936	1.049	0.851	1.079	0.942
177.5	1.231	1.150	0.993	1.105	0.982	0.850	0.957	0.965	1.213	0.915
180.0	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001

**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	1164.285	1164.285	1164.285	1164.285	1164.285	1164.285	1164.285
2.5	1159.668	1159.917	1163.682	1159.481	1161.921	1164.058	1167.570
5.0	1143.964	1143.835	1149.601	1149.153	1153.052	1158.602	1162.934
7.5	1127.194	1126.403	1133.353	1138.073	1142.241	1151.405	1156.545
10.0	1104.603	1102.877	1110.601	1117.028	1123.025	1136.051	1141.870
12.5	1080.934	1078.517	1086.125	1095.143	1102.757	1118.531	1125.457
15.0	1053.494	1051.544	1057.882	1067.991	1076.383	1094.015	1103.594
17.5	1025.196	1023.604	1028.616	1040.178	1049.646	1068.490	1079.885
20.0	994.755	993.503	997.691	1009.803	1020.078	1040.652	1051.984
22.5	964.249	963.047	967.179	979.622	990.457	1012.132	1023.451
25.0	933.620	932.004	937.191	949.978	960.247	982.438	993.841
27.5	902.925	901.071	907.044	920.129	929.917	951.769	963.265
30.0	872.136	870.282	876.745	889.869	898.910	919.816	931.445
32.5	841.859	839.850	846.462	859.409	867.923	887.881	898.976
35.0	812.140	809.768	816.193	828.650	837.014	855.962	865.859
37.5	782.356	778.878	784.834	797.579	805.907	824.077	832.611
40.0	752.516	747.382	752.855	766.142	774.283	792.219	799.261
42.5	721.480	715.636	720.195	733.871	742.324	759.018	763.546
45.0	689.686	683.746	687.250	700.854	709.721	725.018	726.457
47.5	655.781	649.344	652.675	665.478	674.718	687.904	688.243
50.0	620.849	613.864	617.616	628.497	636.268	649.418	649.531
52.5	584.362	575.875	578.534	590.132	596.633	609.403	608.207
55.0	547.328	537.108	538.640	551.042	555.664	568.899	566.058
57.5	505.202	495.176	496.841	508.615	512.397	525.507	521.185
60.0	461.863	452.584	454.830	464.911	467.157	481.488	475.745
62.5	416.412	407.706	411.820	420.789	422.161	436.452	430.464
65.0	370.642	362.558	368.735	376.556	377.326	391.289	385.204

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CANDELA TABULATION - (Cont.)

67.5	325.122	318.306	324.153	334.054	333.722	346.663	340.185
70.0	279.633	274.203	280.117	291.855	290.735	302.118	295.295
72.5	238.966	234.846	241.290	252.441	250.582	260.690	255.415
75.0	198.288	195.394	202.222	213.275	211.457	219.312	215.234
77.5	157.451	154.997	161.904	173.169	171.024	178.485	171.727
80.0	117.340	115.287	122.328	133.121	130.259	137.688	129.003
82.5	82.050	79.351	85.343	94.607	92.984	97.064	90.704
85.0	49.143	46.318	51.861	57.663	56.273	59.708	55.385
87.5	26.099	23.710	26.968	32.976	32.049	34.483	30.763
90.0	7.918	6.529	9.084	11.570	8.786	14.129	11.217
92.5	3.692	2.946	4.009	5.375	4.542	6.321	4.834
95.0	0.801	0.686	0.953	0.697	0.690	1.122	0.637
97.5	0.674	0.896	0.712	0.794	0.993	0.984	0.576
100.0	0.604	0.951	0.615	0.919	1.249	0.897	0.625
102.5	0.626	0.784	0.669	1.105	1.162	0.883	0.830
105.0	0.638	0.775	0.724	1.196	1.091	0.852	0.924
107.5	0.639	0.939	0.779	1.125	1.081	0.803	0.894
110.0	0.624	0.916	0.866	1.012	1.032	0.822	0.883
112.5	0.595	0.734	0.972	0.844	0.870	0.898	0.892
115.0	0.559	0.737	0.974	0.852	0.809	0.866	0.910
117.5	0.519	0.859	0.925	1.035	0.963	0.763	0.936
120.0	0.581	0.915	0.844	1.082	1.069	0.858	1.047
122.5	0.699	0.940	0.752	1.025	1.098	1.050	1.200
125.0	0.700	0.921	0.799	1.056	1.082	1.124	1.160
127.5	0.655	0.886	0.877	1.139	1.012	1.156	1.049
130.0	0.762	0.898	0.881	1.019	0.920	1.164	1.105
132.5	0.913	0.920	0.875	0.812	0.807	1.166	1.204
135.0	0.936	0.985	0.919	0.896	0.879	1.171	1.048
137.5	0.935	1.055	0.967	1.072	1.087	1.175	0.851
140.0	0.893	0.928	0.828	1.060	1.010	1.042	0.797
142.5	0.846	0.786	0.716	1.008	0.774	0.896	0.753
145.0	0.935	0.726	0.971	1.026	0.828	1.050	0.996
147.5	1.018	0.693	1.178	1.053	1.002	1.192	1.219
150.0	0.871	1.056	1.071	1.055	1.067	1.115	1.100
152.5	0.730	1.338	1.005	1.057	1.101	1.067	1.006
155.0	0.629	1.063	1.105	1.040	1.262	1.230	1.086
157.5	0.614	0.904	1.200	1.014	1.447	1.317	1.133
160.0	0.921	1.124	1.283	0.937	1.193	1.155	1.068
162.5	1.032	1.127	1.207	0.944	0.972	1.037	0.959
165.0	0.919	0.902	0.999	1.080	0.911	0.966	0.801
167.5	0.774	1.154	0.984	0.847	1.033	0.759	1.124
170.0	0.727	1.249	0.929	0.995	1.103	0.765	1.015
172.5	0.727	1.194	0.854	1.279	1.027	0.991	0.788
175.0	0.722	1.192	0.938	0.779	1.208	0.999	1.058
177.5	1.057	1.023	1.009	0.864	0.830	0.961	1.231
180.0	1.001	1.001	1.001	1.001	1.001	1.001	1.001

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	414.01	N.A.	13.40
0-30	859.76	N.A.	27.90
0-40	1386.39	N.A.	45.00
0-60	2426.09	N.A.	78.80
0-80	3010.38	N.A.	97.80
0-90	3072.23	N.A.	99.80
10-90	2962.9	N.A.	96.20
20-40	972.39	N.A.	31.60
20-50	1518.53	N.A.	49.30
40-70	1409.72	N.A.	45.80
60-80	584.29	N.A.	19.00
70-80	214.27	N.A.	7.00
80-90	61.85	N.A.	2.00
90-110	3.64	N.A.	0.10
90-120	4.48	N.A.	0.10
90-130	5.27	N.A.	0.20
90-150	6.57	N.A.	0.20
90-180	7.42	N.A.	0.20
110-180	3.78	N.A.	0.10
0-180	3079.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	109.33
10-20	304.68
20-30	445.75
30-40	526.63
40-50	546.14
50-60	493.55
60-70	370.02
70-80	214.27
80-90	61.85
90-100	2.74
100-110	0.90
110-120	0.84
120-130	0.79
130-140	0.70
140-150	0.60
150-160	0.48
160-170	0.28
170-180	0.09

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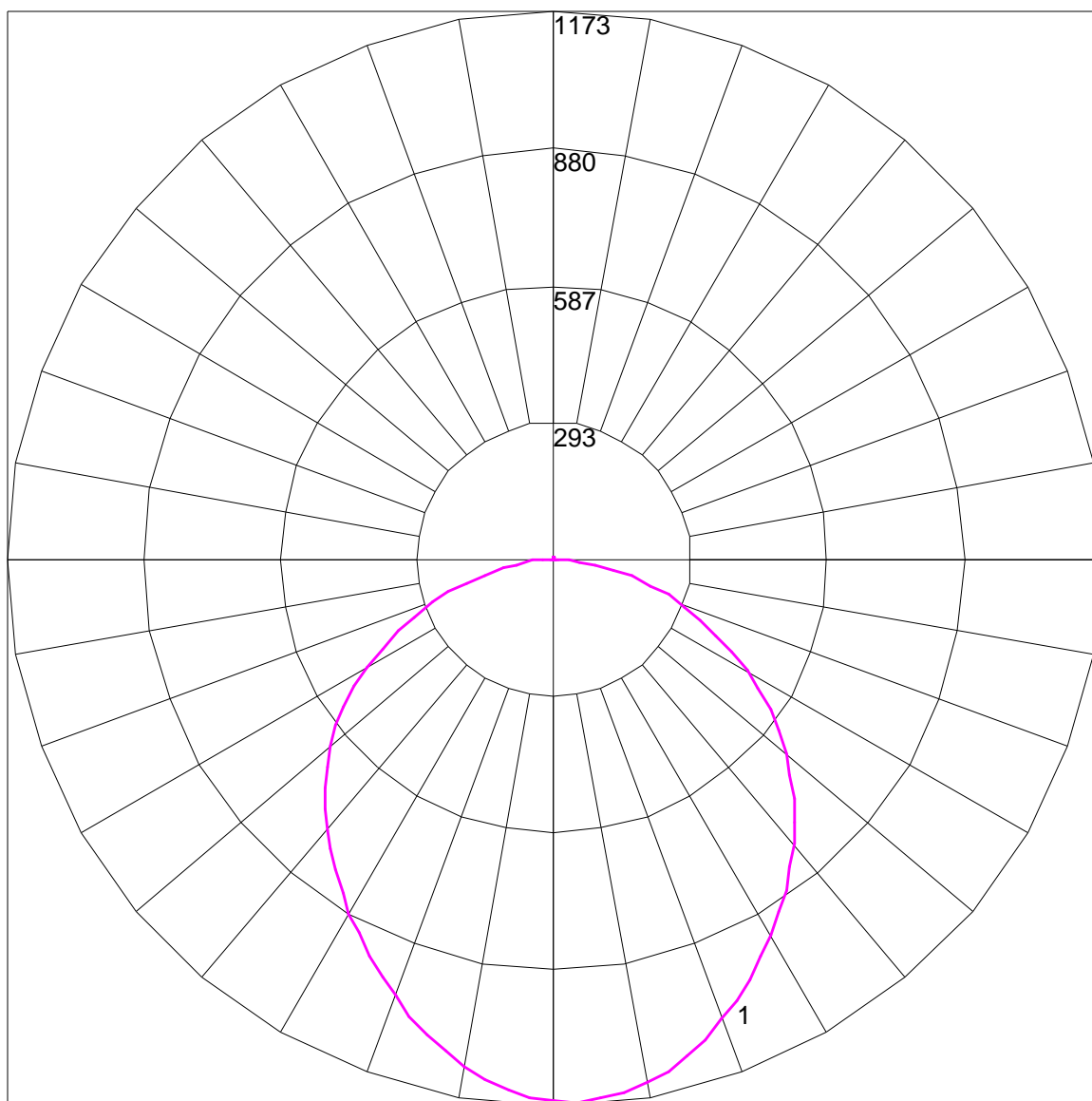
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	90	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00665 ~ SW1910GV-37L35KEX-TF2-MWI.IES

POLAR GRAPH



Maximum Candela = 1173.043 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)