

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00665 ~ SW1910GV-27L35KEX-TF2-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00665_M-27L
[TESTLAB] Spectrum Photometric Lab VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 4/20/2018
[UPDATE] 4/26/2018
[LUMCAT] SW1910GV-27L-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	2100
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	18
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-27L35KEX-TF2-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4045	4089	4041
55	3885	3878	3812
65	3588	3538	3453
75	3274	3169	3104
85	2502	2254	2255

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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	793.908	793.908	793.908	793.908	793.908	793.908	793.908	793.908	793.908	793.908
2.5	796.149	798.293	799.437	799.881	799.057	792.572	790.527	789.239	788.806	789.014
5.0	792.987	796.647	797.506	797.474	795.716	786.701	784.625	779.753	779.300	778.179
7.5	788.631	792.941	795.150	794.675	791.647	780.108	776.837	769.897	769.406	766.305
10.0	778.624	784.164	786.626	786.444	782.095	768.297	764.778	756.223	753.760	750.802
12.5	767.432	774.201	777.596	777.773	772.185	755.773	750.728	742.123	737.930	734.924
15.0	752.525	762.061	764.225	764.121	757.930	740.114	733.290	723.533	720.107	715.834
17.5	736.358	747.642	750.078	749.922	743.315	723.381	714.844	704.717	701.847	696.582
20.0	717.332	730.030	732.093	732.589	724.359	703.472	695.102	684.660	681.078	675.174
22.5	697.876	710.905	713.322	714.652	705.105	682.802	674.345	664.201	660.225	653.896
25.0	677.685	690.166	692.002	694.431	684.023	660.490	652.578	642.267	639.067	633.766
27.5	656.836	668.915	670.299	673.736	662.576	638.287	630.225	620.574	618.186	613.535
30.0	635.139	647.243	647.684	651.801	639.706	616.259	607.421	599.494	598.028	592.805
32.5	612.998	624.455	624.862	629.368	616.859	593.955	585.832	578.471	577.436	572.155
35.0	590.417	600.958	601.678	605.972	594.076	571.311	564.948	557.554	556.013	551.769
37.5	567.745	576.560	577.723	581.852	570.808	548.633	543.484	536.557	535.350	531.244
40.0	545.004	551.735	552.747	556.666	546.564	525.922	521.767	515.446	515.776	510.389
42.5	520.651	526.963	527.115	530.649	521.414	502.478	499.527	493.963	495.265	489.451
45.0	495.360	502.211	500.802	503.703	494.904	478.492	477.122	472.073	473.705	468.365
47.5	469.303	475.043	473.758	476.042	467.551	453.286	453.398	449.461	451.010	445.946
50.0	442.905	447.298	446.137	447.761	439.237	427.402	429.400	426.237	427.343	421.720
52.5	414.727	418.148	416.367	417.361	409.590	399.331	402.501	399.928	401.744	396.382
55.0	385.986	388.797	385.315	385.542	378.750	370.340	375.237	371.605	374.890	369.894
57.5	355.389	358.003	354.226	353.596	347.423	340.364	345.090	342.091	345.537	341.312
60.0	324.403	327.106	323.120	321.587	315.765	310.096	314.769	311.998	314.934	311.055
62.5	293.527	295.627	291.173	289.388	284.238	278.435	282.763	280.458	283.032	279.721
65.0	262.665	264.224	258.952	257.118	252.779	246.505	250.865	248.399	250.659	247.724
67.5	231.967	233.825	228.490	226.637	222.605	216.652	220.158	217.024	219.641	216.582
70.0	201.357	203.701	198.409	196.619	192.923	187.033	189.841	185.819	188.958	185.827
72.5	174.163	175.423	170.122	169.216	165.710	159.424	161.722	158.116	160.805	157.851
75.0	146.765	146.979	142.075	142.233	139.154	131.850	133.749	130.947	133.057	130.794
77.5	117.098	117.859	111.842	113.491	110.098	103.242	106.301	102.484	105.103	102.692
80.0	87.965	89.190	81.593	84.601	80.625	75.177	79.430	73.925	77.133	74.354
82.5	61.849	61.771	57.472	60.073	57.072	52.348	54.048	51.259	54.083	51.680
85.0	37.766	37.789	34.028	36.092	34.049	30.777	31.889	29.173	31.527	29.759
87.5	20.977	20.942	18.726	20.396	18.792	15.737	15.816	15.332	16.855	15.779
90.0	7.649	8.604	5.252	6.174	4.303	3.727	5.154	3.063	3.780	2.378
92.5	3.297	3.246	2.624	3.023	2.427	1.921	2.163	1.631	1.936	1.536
95.0	0.434	0.394	0.542	0.475	0.756	0.606	0.567	0.487	0.449	0.750
97.5	0.393	0.487	0.539	0.585	0.690	0.493	0.522	0.567	0.495	0.643
100.0	0.426	0.547	0.568	0.637	0.661	0.419	0.493	0.599	0.537	0.541
102.5	0.566	0.576	0.684	0.514	0.797	0.417	0.478	0.490	0.562	0.471
105.0	0.630	0.621	0.728	0.482	0.879	0.478	0.480	0.450	0.548	0.415
107.5	0.609	0.676	0.631	0.652	0.791	0.630	0.493	0.554	0.454	0.413
110.0	0.602	0.659	0.624	0.738	0.712	0.647	0.519	0.616	0.443	0.422
112.5	0.608	0.602	0.750	0.685	0.649	0.521	0.553	0.610	0.565	0.459
115.0	0.620	0.559	0.764	0.611	0.645	0.484	0.509	0.574	0.576	0.505
117.5	0.638	0.522	0.652	0.509	0.738	0.519	0.437	0.501	0.445	0.567
120.0	0.714	0.530	0.613	0.476	0.822	0.529	0.442	0.464	0.407	0.606
122.5	0.819	0.549	0.638	0.508	0.894	0.525	0.465	0.460	0.452	0.610
125.0	0.791	0.492	0.626	0.540	0.895	0.523	0.471	0.468	0.463	0.603

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CANDELA TABULATION - (Cont.)

127.5	0.715	0.421	0.591	0.571	0.828	0.524	0.474	0.482	0.448	0.584
130.0	0.754	0.482	0.577	0.582	0.805	0.488	0.488	0.534	0.436	0.542
132.5	0.821	0.557	0.574	0.581	0.816	0.438	0.503	0.607	0.427	0.479
135.0	0.714	0.586	0.547	0.636	0.834	0.539	0.429	0.591	0.512	0.487
137.5	0.580	0.611	0.510	0.714	0.855	0.675	0.367	0.539	0.635	0.544
140.0	0.544	0.556	0.604	0.653	0.784	0.685	0.501	0.470	0.651	0.648
142.5	0.513	0.510	0.732	0.550	0.674	0.678	0.623	0.397	0.635	0.776
145.0	0.679	0.550	0.782	0.682	0.680	0.665	0.666	0.453	0.667	0.745
147.5	0.832	0.588	0.820	0.863	0.722	0.651	0.705	0.535	0.708	0.653
150.0	0.750	0.616	0.733	0.876	0.861	0.604	0.726	0.617	0.746	0.645
152.5	0.686	0.631	0.636	0.870	1.020	0.556	0.723	0.699	0.785	0.660
155.0	0.740	0.602	0.670	0.752	0.971	0.479	0.652	0.715	0.707	0.627
157.5	0.772	0.627	0.692	0.638	0.897	0.426	0.610	0.723	0.632	0.585
160.0	0.728	0.756	0.585	0.608	0.895	0.477	0.620	0.654	0.636	0.668
162.5	0.654	0.798	0.620	0.601	0.895	0.520	0.606	0.592	0.634	0.702
165.0	0.546	0.776	0.899	0.637	0.899	0.552	0.578	0.541	0.624	0.589
167.5	0.767	0.641	0.865	0.820	0.834	0.623	0.679	0.620	0.608	0.646
170.0	0.692	0.636	0.870	0.734	0.811	0.695	0.552	0.689	0.606	0.694
172.5	0.538	0.627	0.883	0.444	0.809	0.714	0.432	0.656	0.665	0.632
175.0	0.721	0.604	0.667	0.698	0.565	0.638	0.715	0.581	0.736	0.643
177.5	0.839	0.784	0.677	0.754	0.669	0.580	0.653	0.658	0.827	0.624
180.0	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682

Vert. 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	793.908	793.908	793.908	793.908	793.908	793.908	793.908
2.5	790.760	790.930	793.498	790.633	792.297	793.754	796.149
5.0	780.052	779.964	783.896	783.590	786.249	790.034	792.987
7.5	768.617	768.077	772.816	776.035	778.877	785.126	788.631
10.0	753.212	752.035	757.302	761.685	765.774	774.656	778.624
12.5	737.073	735.425	740.612	746.762	751.954	762.710	767.432
15.0	718.362	717.032	721.354	728.247	733.969	745.993	752.525
17.5	699.066	697.980	701.398	709.282	715.738	728.587	736.358
20.0	678.309	677.455	680.310	688.569	695.576	709.605	717.332
22.5	657.507	656.687	659.505	667.990	675.378	690.158	697.876
25.0	636.622	635.519	639.057	647.776	654.778	669.910	677.685
27.5	615.691	614.427	618.500	627.422	634.097	648.997	656.836
30.0	594.697	593.432	597.839	606.788	612.953	627.209	635.139
32.5	574.051	572.681	577.190	586.018	591.824	605.433	612.998
35.0	553.786	552.169	556.550	565.044	570.747	583.668	590.417
37.5	533.477	531.105	535.167	543.857	549.536	561.926	567.745
40.0	513.129	509.629	513.361	522.420	527.972	540.202	545.004
42.5	491.966	487.982	491.090	500.416	506.179	517.563	520.651
45.0	470.287	466.236	468.625	477.902	483.948	494.379	495.360
47.5	447.167	442.778	445.049	453.779	460.080	469.072	469.303
50.0	423.348	418.585	421.143	428.563	433.862	442.828	442.905
52.5	398.468	392.680	394.494	402.403	406.835	415.543	414.727
55.0	373.215	366.246	367.290	375.747	378.899	387.924	385.986
57.5	344.490	337.653	338.789	346.817	349.396	358.335	355.389
60.0	314.937	308.610	310.141	317.016	318.547	328.320	324.403
62.5	283.945	278.008	280.814	286.930	287.866	297.610	293.527
65.0	252.735	247.223	251.435	256.768	257.293	266.814	262.665

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CANDELA TABULATION - (Cont.)

67.5	221.696	217.048	221.035	227.787	227.560	236.385	231.967
70.0	190.677	186.975	191.007	199.011	198.248	206.010	201.357
72.5	162.947	160.138	164.532	172.136	170.868	177.761	174.163
75.0	135.210	133.237	137.892	145.429	144.189	149.545	146.765
77.5	107.364	105.690	110.400	118.082	116.619	121.706	117.098
80.0	80.012	78.612	83.414	90.773	88.821	93.888	87.965
82.5	55.949	54.108	58.194	64.511	63.405	66.186	61.849
85.0	33.510	31.584	35.363	39.319	38.372	40.714	37.766
87.5	17.796	16.167	18.389	22.486	21.854	23.513	20.977
90.0	5.400	4.452	6.194	7.890	5.991	9.634	7.649
92.5	2.517	2.008	2.734	3.665	3.097	4.310	3.297
95.0	0.546	0.468	0.650	0.476	0.470	0.765	0.434
97.5	0.459	0.611	0.486	0.542	0.677	0.671	0.393
100.0	0.412	0.648	0.419	0.627	0.851	0.612	0.426
102.5	0.427	0.534	0.456	0.754	0.793	0.602	0.566
105.0	0.435	0.529	0.494	0.816	0.744	0.581	0.630
107.5	0.436	0.640	0.531	0.767	0.737	0.548	0.609
110.0	0.425	0.625	0.590	0.690	0.704	0.560	0.602
112.5	0.406	0.501	0.663	0.576	0.593	0.613	0.608
115.0	0.382	0.502	0.664	0.581	0.551	0.591	0.620
117.5	0.354	0.586	0.631	0.706	0.657	0.520	0.638
120.0	0.396	0.624	0.576	0.738	0.729	0.585	0.714
122.5	0.477	0.641	0.513	0.699	0.749	0.716	0.819
125.0	0.477	0.628	0.544	0.720	0.738	0.767	0.791
127.5	0.446	0.604	0.598	0.777	0.690	0.788	0.715
130.0	0.519	0.612	0.601	0.695	0.627	0.794	0.754
132.5	0.622	0.627	0.597	0.554	0.551	0.795	0.821
135.0	0.638	0.671	0.627	0.611	0.600	0.798	0.714
137.5	0.638	0.720	0.659	0.731	0.741	0.801	0.580
140.0	0.609	0.633	0.564	0.723	0.689	0.710	0.544
142.5	0.577	0.536	0.488	0.687	0.528	0.611	0.513
145.0	0.638	0.495	0.662	0.700	0.565	0.716	0.679
147.5	0.694	0.473	0.803	0.718	0.683	0.813	0.832
150.0	0.594	0.720	0.730	0.720	0.728	0.760	0.750
152.5	0.498	0.912	0.685	0.720	0.751	0.727	0.686
155.0	0.429	0.725	0.754	0.709	0.860	0.838	0.740
157.5	0.419	0.617	0.819	0.691	0.987	0.898	0.772
160.0	0.628	0.766	0.875	0.639	0.813	0.788	0.728
162.5	0.704	0.769	0.823	0.644	0.663	0.707	0.654
165.0	0.627	0.615	0.682	0.737	0.621	0.658	0.546
167.5	0.528	0.787	0.671	0.578	0.704	0.518	0.767
170.0	0.496	0.852	0.633	0.678	0.752	0.522	0.692
172.5	0.496	0.814	0.582	0.872	0.700	0.676	0.538
175.0	0.493	0.813	0.639	0.531	0.824	0.682	0.721
177.5	0.720	0.697	0.688	0.589	0.566	0.655	0.839
180.0	0.682	0.682	0.682	0.682	0.682	0.682	0.682

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	282.31	N.A.	13.40
0-30	586.26	N.A.	27.90
0-40	945.36	N.A.	45.00
0-60	1654.31	N.A.	78.80
0-80	2052.73	N.A.	97.80
0-90	2094.91	N.A.	99.80
10-90	2020.36	N.A.	96.20
20-40	663.06	N.A.	31.60
20-50	1035.46	N.A.	49.30
40-70	961.26	N.A.	45.80
60-80	398.42	N.A.	19.00
70-80	146.11	N.A.	7.00
80-90	42.17	N.A.	2.00
90-110	2.48	N.A.	0.10
90-120	3.05	N.A.	0.10
90-130	3.59	N.A.	0.20
90-150	4.48	N.A.	0.20
90-180	5.06	N.A.	0.20
110-180	2.58	N.A.	0.10
0-180	2099.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	74.55
10-20	207.76
20-30	303.95
30-40	359.10
40-50	372.41
50-60	336.55
60-70	252.31
70-80	146.11
80-90	42.17
90-100	1.87
100-110	0.62
110-120	0.57
120-130	0.54
130-140	0.48
140-150	0.41
150-160	0.33
160-170	0.19
170-180	0.06

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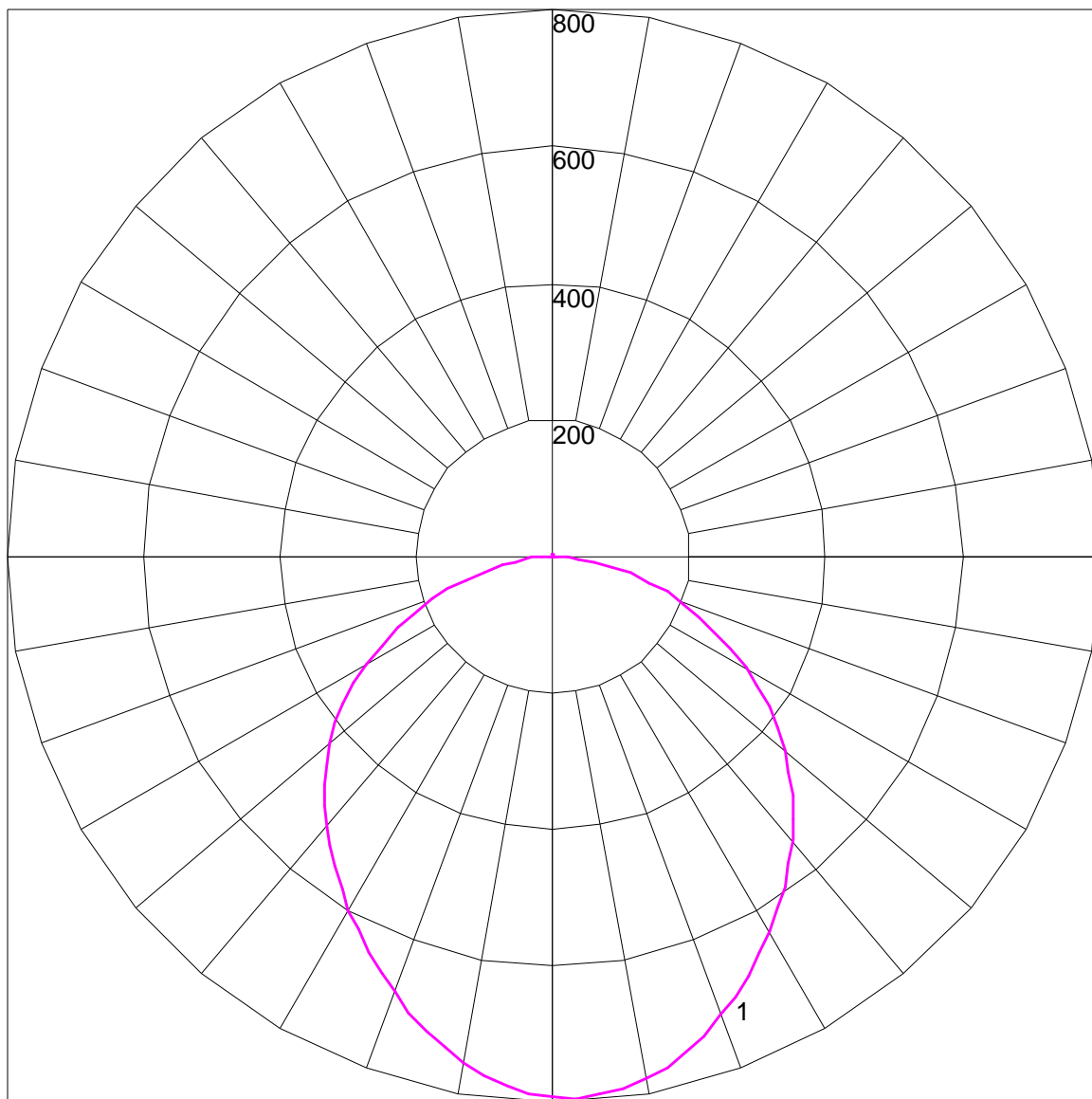
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00665 ~ SW1910GV-27L35KEX-TF2-MWI.IES

POLAR GRAPH



Maximum Candela = 799.881 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)