

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00372_9 ~ SS12GV-15L35K-EX-HM.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00372_9_M-15L
[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 9/12/2018
[UPDATE] 9/19/2018
[LUMCAT] SS12GV-15L-35K-EX-HM
[LUMINAIRE] Nom. 12" Diam x 7.3" H, Schoolhouse Shade
[OTHER] Seamless white glass diffuser
[OTHER] Direct distribution (Nadir to 90 deg): 78.6%
[OTHER] Indirect distribution (90-180 deg): 21.4%
[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
[CR]85+

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	810
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.34
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.52
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.00 ft (Diameter)
Luminous Width (90-270)	1.00 ft (Diameter)
Luminous Height	0.61 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1311	1309	1319
55	1202	1188	1205
65	1105	1086	1106
75	1051	1038	1039
85	1054	1032	1038

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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	152.716	152.716	152.716	152.716	152.716	152.716	152.716	152.716	152.716	152.716
2.5	152.660	151.798	152.536	151.989	151.954	152.733	152.314	152.526	152.644	151.698
5.0	152.190	151.655	152.027	151.569	151.707	152.290	151.698	152.076	152.193	151.210
7.5	151.586	151.414	151.352	151.087	151.434	151.702	151.096	151.611	151.506	150.675
10.0	150.377	150.450	150.068	150.455	150.161	150.606	150.528	150.617	150.158	149.904
12.5	148.982	149.436	148.649	149.553	148.703	149.405	149.648	149.565	148.865	149.111
15.0	147.788	148.069	147.215	148.023	147.394	148.145	148.007	148.312	147.719	147.931
17.5	146.651	146.589	145.776	146.418	146.110	146.872	146.341	147.039	146.543	146.719
20.0	144.766	144.407	143.876	144.646	144.674	144.878	144.616	144.932	145.288	144.681
22.5	142.675	142.258	141.886	142.826	143.214	142.755	142.895	142.754	143.852	142.581
25.0	140.710	140.303	140.023	140.902	140.910	140.802	141.183	140.639	141.976	140.919
27.5	138.779	138.320	138.182	138.959	138.481	138.879	139.240	138.530	139.958	139.286
30.0	136.533	136.183	136.026	136.978	136.698	136.811	136.801	136.716	137.609	137.396
32.5	134.212	133.985	133.817	134.835	135.002	134.721	134.409	134.920	135.400	135.492
35.0	131.902	131.478	131.181	132.377	132.534	132.126	132.113	132.690	133.502	132.985
37.5	129.594	128.923	128.479	129.644	129.974	129.459	129.764	130.435	131.223	130.452
40.0	126.671	126.137	125.786	126.396	127.009	126.572	127.312	127.428	128.139	127.592
42.5	123.617	123.263	123.094	123.244	123.999	123.656	124.778	124.387	125.098	124.722
45.0	120.082	120.006	119.927	120.261	120.890	120.400	122.091	121.388	122.142	121.534
47.5	116.451	116.689	116.698	117.159	117.771	117.104	118.863	118.391	118.973	118.340
50.0	112.939	113.120	112.898	113.849	113.795	113.569	114.657	114.676	115.387	114.742
52.5	109.449	109.502	109.031	110.204	109.745	110.009	110.603	110.944	111.726	111.139
55.0	105.986	105.691	104.799	106.007	106.251	106.464	106.807	107.558	107.929	107.247
57.5	102.529	101.778	100.528	101.885	102.800	102.920	102.826	104.175	104.089	103.355
60.0	98.440	97.493	96.643	97.883	98.830	98.872	98.537	99.861	100.178	99.698
62.5	94.250	93.435	92.793	93.856	94.827	94.783	94.512	95.547	96.367	96.038
65.0	90.710	90.163	89.170	89.790	90.845	90.508	90.910	91.431	92.728	92.177
67.5	87.267	86.827	85.564	85.991	86.863	86.220	87.214	87.322	88.974	88.316
70.0	83.917	83.286	82.303	82.581	83.203	82.575	83.376	83.652	85.030	84.467
72.5	80.580	79.799	79.067	79.320	79.558	78.969	79.658	79.986	81.158	80.637
75.0	77.264	76.482	76.292	76.271	76.379	75.826	76.118	76.466	77.397	77.322
77.5	73.952	73.213	73.545	73.353	73.215	72.707	72.829	72.962	74.041	74.021
80.0	71.266	70.087	70.341	70.613	70.563	69.751	69.896	69.919	71.299	71.025
82.5	68.650	67.250	67.114	67.813	67.923	66.803	67.065	66.896	68.460	68.059
85.0	66.042	65.223	64.724	64.934	65.101	64.189	64.374	64.301	65.479	65.595
87.5	63.435	63.049	62.370	62.388	62.277	61.585	61.815	61.728	62.765	63.118
90.0	61.196	60.480	60.301	60.259	60.307	59.436	59.430	59.511	60.423	60.445
92.5	58.989	58.119	58.241	58.201	58.339	57.295	57.282	57.299	58.111	57.829
95.0	57.140	56.294	56.424	56.229	56.383	55.119	55.430	55.182	55.837	55.934
97.5	55.319	54.519	54.611	54.399	54.433	52.942	53.729	53.118	53.817	54.097
100.0	54.170	52.866	53.498	52.735	52.832	52.006	52.209	51.702	52.126	52.911
102.5	53.065	51.383	52.389	51.342	51.243	51.065	50.702	50.131	50.096	51.538
105.0	49.912	50.295	50.735	50.249	50.138	49.560	49.211	46.872	47.644	48.323
107.5	46.646	47.971	49.071	49.392	49.014	48.070	47.222	43.394	43.417	44.874
110.0	39.430	42.898	46.439	48.789	47.388	47.326	44.676	37.781	37.054	39.391
112.5	32.045	37.255	43.785	47.763	45.713	46.518	41.707	32.033	30.427	33.774
115.0	24.857	30.394	39.969	46.304	43.019	43.574	38.282	25.105	23.496	27.101
117.5	17.676	23.646	36.118	43.525	40.266	40.611	34.171	18.298	16.953	20.448
120.0	11.792	17.126	31.061	39.436	36.492	37.189	29.351	12.446	10.841	13.947
122.5	5.939	10.934	25.980	35.370	32.749	33.697	24.206	6.915	6.111	7.821
125.0	3.291	5.382	20.282	31.326	29.483	28.856	18.735	3.729	2.858	4.150

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127.5	0.689	1.531	14.631	26.495	26.077	23.987	13.539	0.942	1.055	0.970
130.0	0.622	0.862	9.915	20.938	20.943	18.681	8.604	0.794	0.747	0.767
132.5	0.568	0.427	5.350	15.963	15.913	13.483	5.051	0.660	0.611	0.591
135.0	0.567	0.417	3.264	11.500	12.019	9.786	2.765	0.615	0.646	0.570
137.5	0.566	0.418	1.294	7.899	8.231	6.203	1.419	0.586	0.659	0.551
140.0	0.610	0.442	0.944	5.033	5.496	4.016	0.905	0.649	0.650	0.545
142.5	0.653	0.476	0.619	2.913	2.926	1.957	0.629	0.694	0.634	0.539
145.0	0.617	0.529	0.584	1.406	1.819	1.283	0.556	0.645	0.614	0.534
147.5	0.581	0.544	0.554	0.704	0.823	0.666	0.520	0.594	0.635	0.521
150.0	0.563	0.499	0.574	0.634	0.712	0.580	0.515	0.541	0.693	0.467
152.5	0.544	0.492	0.583	0.598	0.606	0.508	0.489	0.493	0.709	0.430
155.0	0.527	0.542	0.501	0.587	0.539	0.539	0.445	0.462	0.688	0.465
157.5	0.507	0.552	0.433	0.543	0.488	0.561	0.448	0.456	0.635	0.494
160.0	0.455	0.503	0.480	0.474	0.547	0.515	0.485	0.561	0.555	0.505
162.5	0.410	0.448	0.521	0.463	0.586	0.479	0.491	0.633	0.533	0.507
165.0	0.471	0.386	0.517	0.492	0.496	0.508	0.474	0.575	0.557	0.473
167.5	0.527	0.394	0.507	0.473	0.426	0.533	0.482	0.531	0.586	0.449
170.0	0.509	0.497	0.456	0.421	0.460	0.535	0.507	0.548	0.618	0.466
172.5	0.503	0.516	0.417	0.421	0.493	0.537	0.520	0.562	0.596	0.477
175.0	0.576	0.434	0.439	0.452	0.523	0.536	0.525	0.566	0.536	0.474
177.5	0.544	0.474	0.435	0.513	0.475	0.489	0.499	0.537	0.596	0.509
180.0	0.511	0.511	0.511	0.511	0.511	0.511	0.511	0.511	0.511	0.511

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	152.716	152.716	152.716	152.716	152.716	152.716	152.716
2.5	152.106	151.695	152.083	152.230	152.064	153.003	152.660
5.0	151.598	151.236	151.642	151.692	151.869	151.852	152.190
7.5	150.981	150.694	151.088	151.104	151.691	150.763	151.586
10.0	149.952	150.166	150.042	150.320	150.863	150.088	150.377
12.5	148.986	149.642	148.915	149.470	149.817	149.312	148.982
15.0	148.241	148.155	147.458	148.377	148.403	147.900	147.788
17.5	147.227	146.342	146.019	147.074	146.873	146.458	146.651
20.0	145.311	144.621	144.648	145.033	145.214	144.834	144.766
22.5	143.374	142.931	143.233	143.055	143.515	143.133	142.675
25.0	141.371	141.184	141.658	141.286	141.566	141.007	140.710
27.5	139.357	139.420	139.846	139.489	139.544	138.884	138.779
30.0	137.311	137.308	137.212	137.608	137.235	136.774	136.533
32.5	135.173	135.095	134.701	135.608	134.848	134.612	134.212
35.0	132.770	132.407	132.596	133.255	132.329	132.207	131.902
37.5	130.301	129.589	130.302	130.704	129.776	129.767	129.594
40.0	127.655	126.806	127.416	127.588	126.719	127.169	126.671
42.5	124.917	124.032	124.387	124.381	123.540	124.383	123.617
45.0	121.943	120.940	120.941	120.928	120.190	120.823	120.082
47.5	118.714	117.772	117.447	117.518	116.800	117.298	116.451
50.0	114.853	114.029	113.820	114.220	113.369	113.915	112.939
52.5	111.053	110.155	110.124	110.595	109.929	110.406	109.449
55.0	107.396	106.212	106.244	106.157	105.890	106.433	105.986
57.5	103.625	102.255	102.344	102.043	101.733	102.548	102.529
60.0	99.600	98.357	98.392	98.686	97.702	98.968	98.440
62.5	95.692	94.471	94.493	95.190	93.693	95.223	94.250
65.0	92.035	90.378	90.726	91.375	90.164	90.932	90.710

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CANDELA TABULATION - (Cont.)

67.5	88.263	86.246	87.111	87.707	86.718	86.890	87.267
70.0	84.253	83.274	83.850	84.358	83.469	83.620	83.917
72.5	80.706	80.502	80.718	81.125	80.252	80.337	80.580
75.0	78.081	77.404	77.872	78.135	77.018	77.015	77.264
77.5	75.188	74.254	75.049	75.199	73.782	74.014	73.952
80.0	71.784	71.497	72.275	72.368	71.435	71.924	71.266
82.5	68.742	68.797	69.599	69.793	69.206	69.566	68.650
85.0	66.355	66.344	67.122	67.710	67.114	66.490	66.042
87.5	63.877	63.924	64.703	65.609	65.039	63.719	63.435
90.0	61.242	61.899	62.397	63.478	63.018	61.726	61.196
92.5	58.912	59.922	60.246	61.327	61.003	59.807	58.989
95.0	57.095	57.916	58.381	59.143	59.136	58.066	57.140
97.5	55.418	55.906	56.776	57.393	57.285	56.489	55.319
100.0	53.967	54.162	55.637	56.364	55.706	55.295	54.170
102.5	52.274	52.445	54.395	55.313	54.150	53.694	53.065
105.0	50.207	51.773	52.976	54.228	52.219	51.183	49.912
107.5	47.892	51.192	51.526	53.107	50.259	47.639	46.646
110.0	45.209	49.994	50.027	51.930	47.482	41.896	39.430
112.5	42.295	48.749	47.995	50.260	44.651	35.646	32.045
115.0	39.054	46.012	45.118	47.858	41.029	28.361	24.857
117.5	35.082	43.180	41.838	44.939	37.364	21.309	17.676
120.0	30.105	39.442	37.945	41.279	31.862	14.712	11.792
122.5	24.883	35.656	34.223	37.090	26.282	8.798	5.939
125.0	19.335	30.847	30.753	32.168	19.986	4.155	3.291
127.5	14.028	25.995	26.638	26.975	13.667	1.058	0.689
130.0	9.026	20.815	21.618	21.422	8.900	0.728	0.622
132.5	5.130	15.623	16.685	16.088	4.165	0.520	0.568
135.0	2.584	10.854	11.871	11.030	2.651	0.522	0.567
137.5	1.076	6.094	7.795	6.930	1.174	0.544	0.566
140.0	0.792	3.788	4.673	3.995	0.886	0.598	0.610
142.5	0.596	1.516	2.501	2.015	0.602	0.633	0.653
145.0	0.499	1.069	1.513	1.155	0.642	0.638	0.617
147.5	0.487	0.630	0.846	0.681	0.681	0.653	0.581
150.0	0.570	0.555	0.567	0.645	0.620	0.681	0.563
152.5	0.566	0.482	0.417	0.614	0.560	0.686	0.544
155.0	0.473	0.512	0.419	0.591	0.568	0.657	0.527
157.5	0.427	0.542	0.448	0.576	0.578	0.635	0.507
160.0	0.430	0.555	0.507	0.570	0.621	0.624	0.455
162.5	0.440	0.568	0.527	0.573	0.658	0.564	0.410
165.0	0.456	0.581	0.508	0.586	0.573	0.437	0.471
167.5	0.505	0.591	0.501	0.603	0.494	0.405	0.527
170.0	0.584	0.527	0.507	0.625	0.509	0.494	0.509
172.5	0.587	0.472	0.519	0.622	0.528	0.552	0.503
175.0	0.526	0.481	0.535	0.599	0.575	0.574	0.576
177.5	0.464	0.552	0.539	0.602	0.542	0.515	0.544
180.0	0.511	0.511	0.511	0.511	0.511	0.511	0.511

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	56.27	N.A.	6.90
0-30	121.42	N.A.	15.00
0-40	204.39	N.A.	25.20
0-60	393.13	N.A.	48.50
0-80	564.77	N.A.	69.70
0-90	636.53	N.A.	78.60
10-90	622.09	N.A.	76.80
20-40	148.12	N.A.	18.30
20-50	241.52	N.A.	29.80
40-70	278.91	N.A.	34.40
60-80	171.65	N.A.	21.20
70-80	81.47	N.A.	10.10
80-90	71.76	N.A.	8.90
90-110	115.11	N.A.	14.20
90-120	151.55	N.A.	18.70
90-130	167.96	N.A.	20.70
90-150	172.94	N.A.	21.40
90-180	173.39	N.A.	21.40
110-180	58.28	N.A.	7.20
0-180	809.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	14.45
10-20	41.82
20-30	65.15
30-40	82.97
40-50	93.40
50-60	95.33
60-70	90.18
70-80	81.47
80-90	71.76
90-100	62.20
100-110	52.92
110-120	36.44
120-130	16.41
130-140	4.32
140-150	0.66
150-160	0.25
160-170	0.15
170-180	0.05

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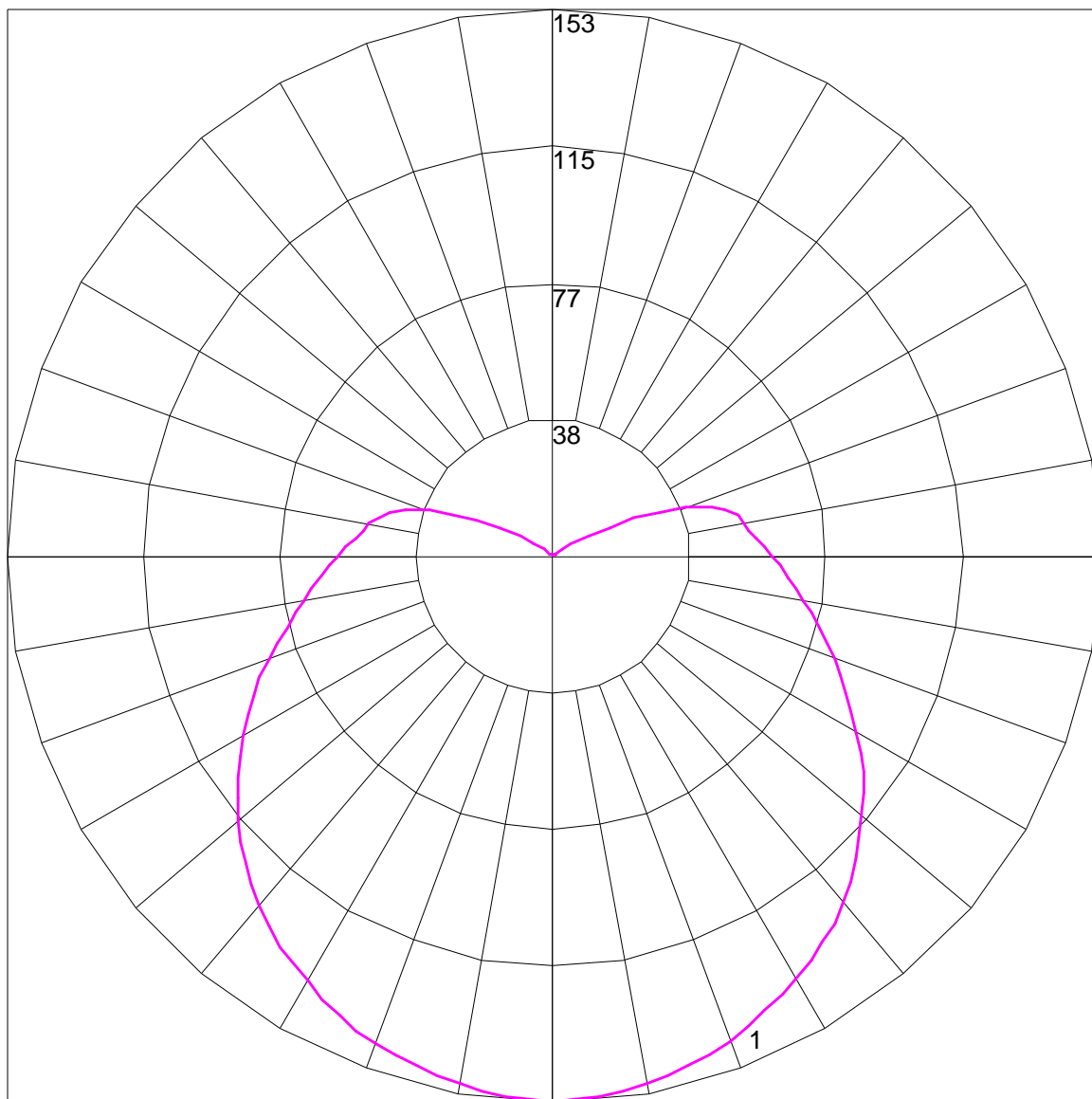
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	79
1	100	94	88	83	95	89	84	80	81	77	73	73	70	67	66	64	62	58
2	90	80	72	65	85	76	69	63	69	63	58	62	58	53	56	52	49	45
3	81	69	60	52	77	66	57	51	60	53	47	54	48	43	49	44	40	37
4	74	61	51	44	70	58	49	42	52	45	39	47	41	36	43	38	34	31
5	67	54	44	37	64	51	42	36	47	39	33	42	36	31	38	33	29	26
6	62	48	38	32	59	46	37	31	42	34	29	38	32	27	35	29	25	22
7	57	43	34	28	54	41	33	27	38	30	25	34	28	23	31	26	22	19
8	53	39	30	24	50	38	29	24	34	27	22	32	25	21	29	23	19	17
9	50	36	27	22	47	34	26	21	32	25	20	29	23	19	27	21	17	15
10	46	33	25	19	44	32	24	19	29	22	18	27	21	17	25	19	16	14

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POLAR GRAPH



Maximum Candela = 153.003 Located At Horizontal Angle = 337.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)