

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00372_9 ~ SS12GV-27L35K-EX-HM.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00372_9
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 9/12/2018
 [UPDATE] 9/19/2018
 [LUMCAT] SS12GV-27L-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
 [_CRI]85+

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1413
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	18
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	2287	2284	2303
55	2097	2074	2102
65	1928	1895	1931
75	1834	1811	1813
85	1839	1802	1812

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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	266.520	266.520	266.520	266.520	266.520	266.520	266.520	266.520	266.520	266.520
2.5	266.423	264.918	266.206	265.251	265.191	266.549	265.819	266.189	266.394	264.744
5.0	265.602	264.668	265.317	264.518	264.760	265.777	264.744	265.403	265.607	263.892
7.5	264.548	264.248	264.139	263.678	264.283	264.750	263.692	264.591	264.409	262.958
10.0	262.438	262.566	261.899	262.574	262.061	262.838	262.701	262.857	262.056	261.613
12.5	260.004	260.795	259.423	261.000	259.517	260.742	261.165	261.021	259.799	260.228
15.0	257.919	258.410	256.919	258.329	257.232	258.542	258.302	258.835	257.800	258.170
17.5	255.936	255.827	254.409	255.529	254.992	256.321	255.395	256.613	255.747	256.054
20.0	252.645	252.019	251.092	252.437	252.486	252.842	252.384	252.936	253.556	252.498
22.5	248.996	248.269	247.619	249.260	249.937	249.136	249.381	249.134	251.050	248.832
25.0	245.568	244.857	244.368	245.902	245.916	245.728	246.393	245.444	247.777	245.932
27.5	242.197	241.396	241.156	242.511	241.677	242.372	243.001	241.762	244.254	243.082
30.0	238.278	237.666	237.393	239.054	238.565	238.763	238.745	238.596	240.155	239.783
32.5	234.227	233.830	233.538	235.314	235.605	235.116	234.570	235.463	236.301	236.460
35.0	230.195	229.456	228.938	231.025	231.299	230.587	230.563	231.570	232.987	232.085
37.5	226.167	224.997	224.221	226.255	226.830	225.932	226.464	227.636	229.010	227.665
40.0	221.066	220.134	219.521	220.587	221.656	220.893	222.185	222.388	223.629	222.674
42.5	215.737	215.119	214.824	215.085	216.404	215.804	217.763	217.081	218.321	217.665
45.0	209.568	209.435	209.297	209.880	210.977	210.122	213.074	211.847	213.162	212.102
47.5	203.231	203.645	203.662	204.466	205.534	204.370	207.439	206.616	207.631	206.527
50.0	197.101	197.417	197.030	198.690	198.595	198.201	200.100	200.132	201.373	200.248
52.5	191.010	191.103	190.281	192.328	191.527	191.988	193.024	193.620	194.985	193.960
55.0	184.967	184.452	182.895	185.003	185.430	185.801	186.400	187.710	188.357	187.167
57.5	178.933	177.623	175.441	177.809	179.407	179.616	179.452	181.807	181.657	180.375
60.0	171.798	170.144	168.661	170.826	172.479	172.552	171.966	174.278	174.830	173.993
62.5	164.486	163.062	161.943	163.798	165.492	165.415	164.943	166.748	168.179	167.606
65.0	158.308	157.352	155.619	156.702	158.542	157.955	158.656	159.565	161.829	160.868
67.5	152.298	151.531	149.327	150.072	151.593	150.471	152.206	152.394	155.278	154.130
70.0	146.452	145.351	143.636	144.120	145.206	144.110	145.508	145.990	148.395	147.412
72.5	140.628	139.266	137.988	138.430	138.844	137.816	139.020	139.592	141.637	140.727
75.0	134.842	133.477	133.145	133.108	133.296	132.331	132.841	133.449	135.074	134.942
77.5	129.061	127.772	128.350	128.015	127.775	126.888	127.102	127.334	129.217	129.182
80.0	124.374	122.316	122.759	123.234	123.147	121.730	121.982	122.023	124.431	123.953
82.5	119.808	117.364	117.127	118.347	118.540	116.584	117.042	116.747	119.476	118.776
85.0	115.256	113.828	112.957	113.323	113.615	112.023	112.345	112.219	114.274	114.476
87.5	110.706	110.034	108.848	108.879	108.686	107.479	107.880	107.728	109.537	110.153
90.0	106.799	105.549	105.238	105.164	105.247	103.728	103.718	103.858	105.451	105.488
92.5	102.948	101.429	101.643	101.573	101.813	99.992	99.969	99.999	101.415	100.923
95.0	99.720	98.244	98.471	98.131	98.400	96.193	96.737	96.304	97.446	97.616
97.5	96.542	95.147	95.307	94.938	94.997	92.395	93.768	92.701	93.921	94.410
100.0	94.537	92.262	93.364	92.033	92.203	90.761	91.115	90.230	90.970	92.340
102.5	92.609	89.674	91.430	89.602	89.430	89.118	88.486	87.488	87.428	89.944
105.0	87.106	87.774	88.543	87.694	87.501	86.492	85.883	81.801	83.149	84.334
107.5	81.406	83.719	85.638	86.199	85.540	83.892	82.412	75.731	75.771	78.315
110.0	68.813	74.866	81.045	85.146	82.701	82.593	77.968	65.935	64.667	68.746
112.5	55.925	65.017	76.413	83.356	79.779	81.183	72.787	55.904	53.101	58.943
115.0	43.381	53.044	69.754	80.810	75.077	76.046	66.810	43.814	41.006	47.296
117.5	30.848	41.267	63.034	75.959	70.273	70.875	59.635	31.933	29.587	35.685
120.0	20.580	29.889	54.208	68.824	63.686	64.903	51.224	21.721	18.920	24.341
122.5	10.365	19.082	45.340	61.728	57.154	58.808	42.244	12.068	10.665	13.650
125.0	5.744	9.392	35.396	54.670	51.453	50.359	32.696	6.508	4.988	7.243

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127.5	1.202	2.672	25.534	46.239	45.509	41.862	23.628	1.644	1.842	1.692
130.0	1.086	1.504	17.303	36.541	36.550	32.602	15.016	1.385	1.304	1.338
132.5	0.991	0.746	9.337	27.858	27.772	23.531	8.815	1.151	1.066	1.032
135.0	0.989	0.727	5.696	20.069	20.975	17.078	4.825	1.073	1.128	0.995
137.5	0.988	0.730	2.258	13.786	14.365	10.826	2.476	1.023	1.150	0.962
140.0	1.065	0.771	1.648	8.784	9.591	7.008	1.580	1.133	1.134	0.951
142.5	1.139	0.831	1.080	5.084	5.107	3.416	1.098	1.212	1.107	0.940
145.0	1.076	0.924	1.019	2.453	3.175	2.239	0.970	1.125	1.072	0.932
147.5	1.014	0.950	0.967	1.229	1.436	1.162	0.908	1.036	1.109	0.909
150.0	0.982	0.871	1.001	1.107	1.242	1.013	0.899	0.945	1.210	0.815
152.5	0.950	0.859	1.018	1.043	1.057	0.886	0.853	0.860	1.237	0.751
155.0	0.919	0.946	0.875	1.025	0.940	0.940	0.776	0.806	1.201	0.811
157.5	0.885	0.963	0.756	0.947	0.852	0.979	0.781	0.796	1.108	0.863
160.0	0.794	0.877	0.838	0.828	0.955	0.899	0.846	0.979	0.968	0.882
162.5	0.715	0.781	0.910	0.808	1.022	0.836	0.857	1.105	0.930	0.884
165.0	0.822	0.673	0.902	0.859	0.866	0.887	0.828	1.003	0.972	0.825
167.5	0.919	0.687	0.884	0.825	0.743	0.931	0.841	0.927	1.022	0.784
170.0	0.889	0.867	0.795	0.735	0.802	0.934	0.884	0.956	1.079	0.813
172.5	0.878	0.900	0.728	0.735	0.860	0.937	0.907	0.980	1.041	0.832
175.0	1.005	0.757	0.767	0.789	0.912	0.935	0.916	0.988	0.936	0.828
177.5	0.950	0.828	0.759	0.895	0.829	0.853	0.870	0.937	1.040	0.888
180.0	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892	0.892

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	266.520	266.520	266.520	266.520	266.520	266.520	266.520
2.5	265.455	264.739	265.416	265.672	265.382	267.021	266.423
5.0	264.569	263.937	264.645	264.733	265.042	265.013	265.602
7.5	263.492	262.991	263.679	263.707	264.731	263.111	264.548
10.0	261.697	262.069	261.853	262.338	263.286	261.934	262.438
12.5	260.011	261.155	259.886	260.856	261.460	260.580	260.004
15.0	258.710	258.560	257.344	258.947	258.993	258.116	257.919
17.5	256.941	255.396	254.832	256.673	256.322	255.598	255.936
20.0	253.596	252.393	252.439	253.112	253.427	252.765	252.645
22.5	250.216	249.443	249.970	249.660	250.463	249.795	248.996
25.0	246.720	246.394	247.221	246.572	247.061	246.085	245.568
27.5	243.206	243.316	244.059	243.437	243.532	242.380	242.197
30.0	239.635	239.630	239.462	240.153	239.503	238.698	238.278
32.5	235.904	235.768	235.080	236.664	235.336	234.925	234.227
35.0	231.710	231.076	231.407	232.556	230.940	230.728	230.195
37.5	227.402	226.158	227.403	228.105	226.485	226.469	226.167
40.0	222.784	221.302	222.366	222.666	221.150	221.936	221.066
42.5	218.006	216.461	217.081	217.070	215.602	217.074	215.737
45.0	212.815	211.065	211.066	211.044	209.755	210.860	209.568
47.5	207.179	205.535	204.969	205.093	203.839	204.709	203.231
50.0	200.442	199.003	198.639	199.337	197.851	198.805	197.101
52.5	193.810	192.242	192.188	193.010	191.848	192.680	191.010
55.0	187.427	185.362	185.417	185.266	184.800	185.747	184.967
57.5	180.847	178.456	178.611	178.085	177.545	178.967	178.933
60.0	173.822	171.652	171.713	172.227	170.509	172.719	171.798
62.5	167.001	164.870	164.910	166.125	163.513	166.184	164.486
65.0	160.619	157.727	158.335	159.468	157.355	158.695	158.308

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CANDELA TABULATION - (Cont.)

67.5	154.037	150.517	152.026	153.067	151.341	151.640	152.298
70.0	147.038	145.330	146.335	147.221	145.671	145.934	146.452
72.5	140.849	140.493	140.869	141.579	140.056	140.205	140.628
75.0	136.267	135.086	135.902	136.361	134.412	134.406	134.842
77.5	131.218	129.588	130.975	131.237	128.764	129.170	129.061
80.0	125.278	124.776	126.134	126.296	124.668	125.522	124.374
82.5	119.968	120.065	121.465	121.803	120.779	121.406	119.808
85.0	115.803	115.784	117.141	118.167	117.128	116.039	115.256
87.5	111.479	111.560	112.920	114.501	113.506	111.203	110.706
90.0	106.880	108.026	108.896	110.781	109.979	107.725	106.799
92.5	102.814	104.576	105.141	107.028	106.462	104.375	102.948
95.0	99.643	101.075	101.886	103.217	103.205	101.336	99.720
97.5	96.716	97.568	99.086	100.162	99.974	98.584	96.542
100.0	94.183	94.524	97.098	98.366	97.218	96.500	94.537
102.5	91.228	91.527	94.930	96.532	94.503	93.707	92.609
105.0	87.621	90.354	92.453	94.639	91.132	89.325	87.106
107.5	83.581	89.340	89.923	92.683	87.712	83.139	81.406
110.0	78.898	87.250	87.307	90.628	82.865	73.117	68.813
112.5	73.814	85.077	83.761	87.714	77.925	62.210	55.925
115.0	68.157	80.300	78.740	83.522	71.603	49.496	43.381
117.5	61.225	75.358	73.016	78.428	65.208	37.189	30.848
120.0	52.540	68.835	66.221	72.041	55.606	25.676	20.580
122.5	43.425	62.227	59.726	64.729	45.867	15.354	10.365
125.0	33.743	53.835	53.670	56.139	34.879	7.252	5.744
127.5	24.482	45.367	46.489	47.076	23.851	1.846	1.202
130.0	15.752	36.326	37.727	37.386	15.532	1.270	1.086
132.5	8.953	27.265	29.118	28.076	7.269	0.907	0.991
135.0	4.509	18.942	20.717	19.249	4.627	0.911	0.989
137.5	1.878	10.636	13.603	12.095	2.049	0.950	0.988
140.0	1.383	6.610	8.156	6.972	1.546	1.043	1.065
142.5	1.040	2.646	4.365	3.517	1.051	1.104	1.139
145.0	0.870	1.866	2.640	2.016	1.121	1.114	1.076
147.5	0.850	1.099	1.477	1.189	1.189	1.139	1.014
150.0	0.995	0.969	0.989	1.125	1.082	1.189	0.982
152.5	0.988	0.842	0.728	1.072	0.978	1.198	0.950
155.0	0.825	0.894	0.732	1.031	0.992	1.146	0.919
157.5	0.746	0.946	0.782	1.005	1.008	1.108	0.885
160.0	0.751	0.968	0.884	0.994	1.083	1.089	0.794
162.5	0.768	0.991	0.920	1.000	1.148	0.984	0.715
165.0	0.796	1.014	0.886	1.023	1.000	0.763	0.822
167.5	0.881	1.031	0.874	1.053	0.863	0.706	0.919
170.0	1.019	0.920	0.885	1.090	0.889	0.862	0.889
172.5	1.025	0.823	0.905	1.086	0.922	0.963	0.878
175.0	0.918	0.840	0.933	1.045	1.003	1.001	1.005
177.5	0.809	0.963	0.940	1.051	0.946	0.898	0.950
180.0	0.892	0.892	0.892	0.892	0.892	0.892	0.892

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	98.20	N.A.	6.90
0-30	211.90	N.A.	15.00
0-40	356.70	N.A.	25.20
0-60	686.08	N.A.	48.50
0-80	985.64	N.A.	69.70
0-90	1110.88	N.A.	78.60
10-90	1085.67	N.A.	76.80
20-40	258.50	N.A.	18.30
20-50	421.50	N.A.	29.80
40-70	486.76	N.A.	34.40
60-80	299.56	N.A.	21.20
70-80	142.18	N.A.	10.10
80-90	125.23	N.A.	8.90
90-110	200.90	N.A.	14.20
90-120	264.49	N.A.	18.70
90-130	293.13	N.A.	20.70
90-150	301.82	N.A.	21.40
90-180	302.60	N.A.	21.40
110-180	101.70	N.A.	7.20
0-180	1413.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	25.21
10-20	72.99
20-30	113.69
30-40	144.80
40-50	163.01
50-60	166.38
60-70	157.38
70-80	142.18
80-90	125.23
90-100	108.54
100-110	92.35
110-120	63.59
120-130	28.64
130-140	7.53
140-150	1.16
150-160	0.44
160-170	0.25
170-180	0.09

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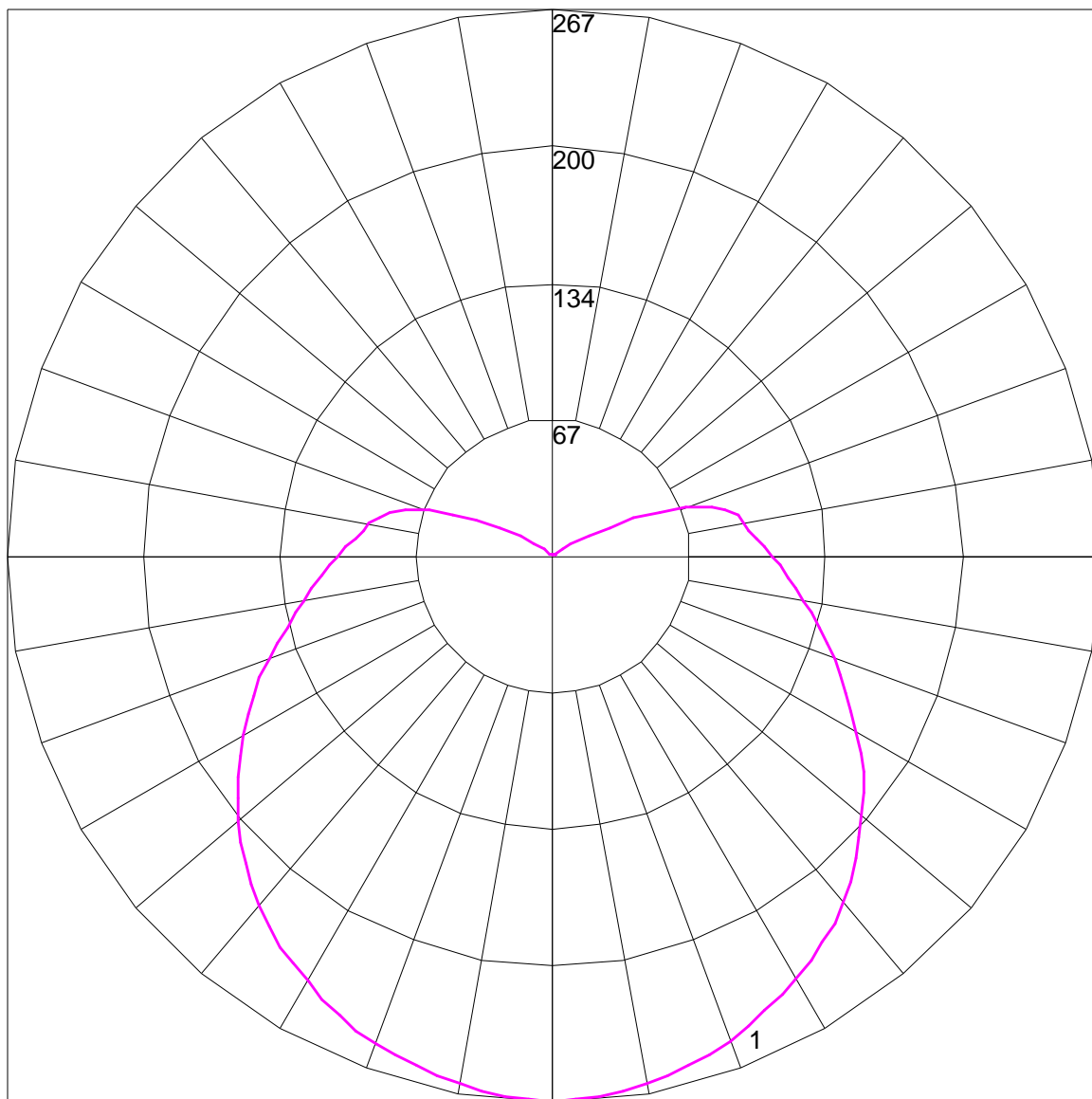
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	74	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	53	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	35	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 = 267.021 Located At Horizontal Angle = 337.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)