

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00733 ~ ED2015GV-15L35KEX-TF2-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00733_M-15L

[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 10/30/2018

[UPDATE] 11/20/2018

[LUMCAT] ED2015GV-15L-35K-EX-TF2-MWI

[LUMINAIRE] Nom. 20" diam. x 15.0" H, Expanded Dome RLM Classic

[OTHER] Regressed, 4" inside frosted diffuser

[OTHER] Reflector: Matte white finish

[OTHER] Beam Angle: 106.6 degrees

[LAMPCAT] N/A

[LAMP] N/A, Gen3

[OTHER] Total luminaire watts is approximate

[OTHER] This report generated by Spectrum Lighting, scaled from 55L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1151
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.67 ft (Diameter)
Luminous Width (90-270)	1.67 ft (Diameter)
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2001	2088	2132
55	1841	1974	2064
65	894	927	869
75	331	295	254
85	156	146	110

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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	491.019	491.019	491.019	491.019	491.019	491.019	491.019	491.019	491.019	491.019
2.5	489.205	489.753	489.080	489.766	490.251	491.901	491.724	491.464	490.731	490.982
5.0	486.309	486.335	486.785	487.559	488.679	490.610	491.057	490.473	489.731	489.365
7.5	481.207	482.293	483.538	484.312	485.389	488.466	489.211	488.316	487.362	487.207
10.0	475.308	476.781	478.716	480.305	481.535	485.119	485.871	485.110	484.422	483.035
12.5	468.206	470.555	472.523	474.938	476.520	481.218	481.912	480.908	479.767	478.381
15.0	460.141	462.917	465.241	468.692	470.753	475.527	477.276	475.558	474.520	471.574
17.5	450.812	454.523	457.143	461.173	463.677	469.123	471.179	469.259	467.575	464.370
20.0	439.721	444.817	447.290	452.952	455.069	460.705	463.690	461.411	460.132	455.353
22.5	426.611	433.018	436.295	441.111	444.111	451.626	453.958	452.444	449.589	446.075
25.0	411.807	418.116	421.681	427.582	430.257	437.212	442.359	439.238	438.323	431.145
27.5	395.332	402.267	405.027	410.764	412.589	421.350	426.175	423.410	421.272	415.667
30.0	379.156	385.193	388.589	392.616	394.867	402.619	406.715	405.184	403.187	397.259
32.5	363.236	369.250	372.253	376.358	377.084	383.258	388.313	385.657	385.312	378.694
35.0	348.134	354.582	357.668	360.731	361.009	367.528	370.567	369.132	367.467	364.034
37.5	333.647	340.052	343.797	346.636	346.648	352.403	355.385	353.985	353.594	349.479
40.0	319.035	325.656	329.918	332.956	333.155	339.097	341.579	340.835	340.088	336.259
42.5	304.343	310.896	316.036	319.358	320.412	326.014	328.833	328.451	327.768	323.006
45.0	288.201	295.828	300.775	305.777	307.112	313.197	316.568	316.136	315.506	309.150
47.5	271.250	279.390	285.127	291.505	293.396	300.403	303.951	303.843	302.102	295.216
50.0	253.725	261.941	268.472	277.115	278.864	287.095	291.198	290.785	288.637	280.439
52.5	235.925	243.696	251.582	260.551	263.795	273.766	276.747	277.523	273.249	264.868
55.0	215.123	224.948	230.615	243.713	241.179	253.429	261.745	254.190	256.572	243.551
57.5	193.111	196.747	208.924	209.683	214.340	232.003	224.840	228.760	218.877	217.198
60.0	153.258	163.365	161.981	174.193	167.165	175.857	182.208	174.540	179.725	163.399
62.5	107.238	123.442	111.801	124.391	110.360	121.001	131.430	115.546	125.458	113.001
65.0	76.973	80.436	79.810	74.452	74.777	83.769	78.899	79.927	75.708	77.173
67.5	51.028	55.741	49.904	53.725	47.683	50.060	54.147	47.147	52.778	47.336
70.0	36.651	37.146	35.880	34.713	32.167	34.468	33.680	32.815	33.299	32.641
72.5	24.608	25.724	23.658	22.946	19.789	21.866	22.413	20.421	21.548	21.361
75.0	17.433	16.843	15.566	15.145	13.367	13.332	14.125	13.014	14.052	13.119
77.5	12.468	12.287	10.957	10.677	9.169	9.813	9.552	8.827	9.215	9.579
80.0	8.632	8.104	7.663	7.317	6.428	7.015	6.898	6.002	6.179	6.566
82.5	4.970	5.027	4.817	4.570	3.759	4.358	4.436	3.723	3.879	4.008
85.0	2.763	2.473	2.589	2.453	1.946	2.393	2.322	2.181	2.101	2.063
87.5	0.807	1.291	0.923	0.968	0.853	1.069	0.825	0.929	0.681	0.668
90.0	0.178	0.160	0.221	0.130	0.230	0.303	0.224	0.259	0.140	0.185

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	491.019	491.019	491.019	491.019	491.019	491.019	491.019
2.5	490.448	490.183	490.083	490.469	489.939	489.739	489.205
5.0	489.327	488.392	488.373	487.933	487.061	486.820	486.309
7.5	486.403	485.329	484.783	484.220	483.241	482.233	481.207
10.0	482.120	480.599	480.655	478.881	477.109	476.496	475.308
12.5	476.732	474.374	474.118	472.397	469.807	469.018	468.206
15.0	470.619	467.387	467.021	464.553	461.250	460.512	460.141
17.5	463.086	459.811	458.378	455.587	452.139	450.789	450.812
20.0	454.747	450.323	449.454	445.471	440.530	440.446	439.721
22.5	443.587	439.572	437.826	433.119	428.002	427.212	426.611

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CANDELA TABULATION - (Cont.)

25.0	431.067	425.900	425.838	418.738	412.671	412.717	411.807
27.5	414.979	410.530	410.106	403.686	396.496	396.789	395.332
30.0	397.397	394.898	394.032	388.111	381.078	380.340	379.156
32.5	381.148	379.136	379.477	373.461	365.851	364.926	363.236
35.0	365.363	364.752	365.002	359.430	351.823	349.824	348.134
37.5	351.115	350.950	351.764	346.092	338.031	335.651	333.647
40.0	337.301	337.425	338.550	333.161	323.945	321.708	319.035
42.5	323.505	323.999	325.749	318.760	309.818	306.159	304.343
45.0	309.712	309.903	312.762	303.624	293.438	290.301	288.201
47.5	294.954	295.613	296.553	287.023	276.817	273.053	271.250
50.0	280.022	279.064	280.133	269.806	258.307	255.595	253.725
52.5	262.781	261.980	261.632	250.266	239.678	236.818	235.925
55.0	245.237	239.060	241.755	229.884	217.527	217.904	215.123
57.5	209.325	215.044	212.325	197.594	195.101	188.869	193.111
60.0	171.696	165.149	179.314	161.772	148.993	159.225	153.258
62.5	122.925	111.699	127.441	119.169	103.723	115.704	107.238
65.0	73.945	79.337	81.647	74.922	75.520	72.646	76.973
67.5	53.299	49.296	58.223	53.403	49.489	54.138	51.028
70.0	34.379	35.309	38.660	35.804	35.825	37.152	36.651
72.5	23.055	23.171	25.693	25.203	24.485	25.877	24.608
75.0	15.270	15.391	18.093	17.132	16.551	17.932	17.433
77.5	10.543	10.660	12.899	12.396	12.208	12.704	12.468
80.0	7.038	7.402	8.440	8.195	8.485	8.638	8.632
82.5	4.152	4.774	4.891	5.040	4.955	5.553	4.970
85.0	2.182	2.157	2.384	2.585	2.441	2.964	2.763
87.5	0.783	0.780	0.941	1.026	0.948	0.809	0.807
90.0	0.189	0.204	0.182	0.161	0.184	0.172	0.178

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	178.48	N.A.	15.50
0-30	374.34	N.A.	32.50
0-40	600.95	N.A.	52.20
0-60	1043.88	N.A.	90.70
0-80	1148.07	N.A.	99.70
0-90	1151.24	N.A.	100.00
10-90	1104.86	N.A.	96.00
20-40	422.47	N.A.	36.70
20-50	658.03	N.A.	57.20
40-70	528.52	N.A.	45.90
60-80	104.20	N.A.	9.10
70-80	18.61	N.A.	1.60
80-90	3.17	N.A.	0.30
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1151.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.38
10-20	132.10
20-30	195.86
30-40	226.60
40-50	235.56
50-60	207.37
60-70	85.59
70-80	18.61
80-90	3.17
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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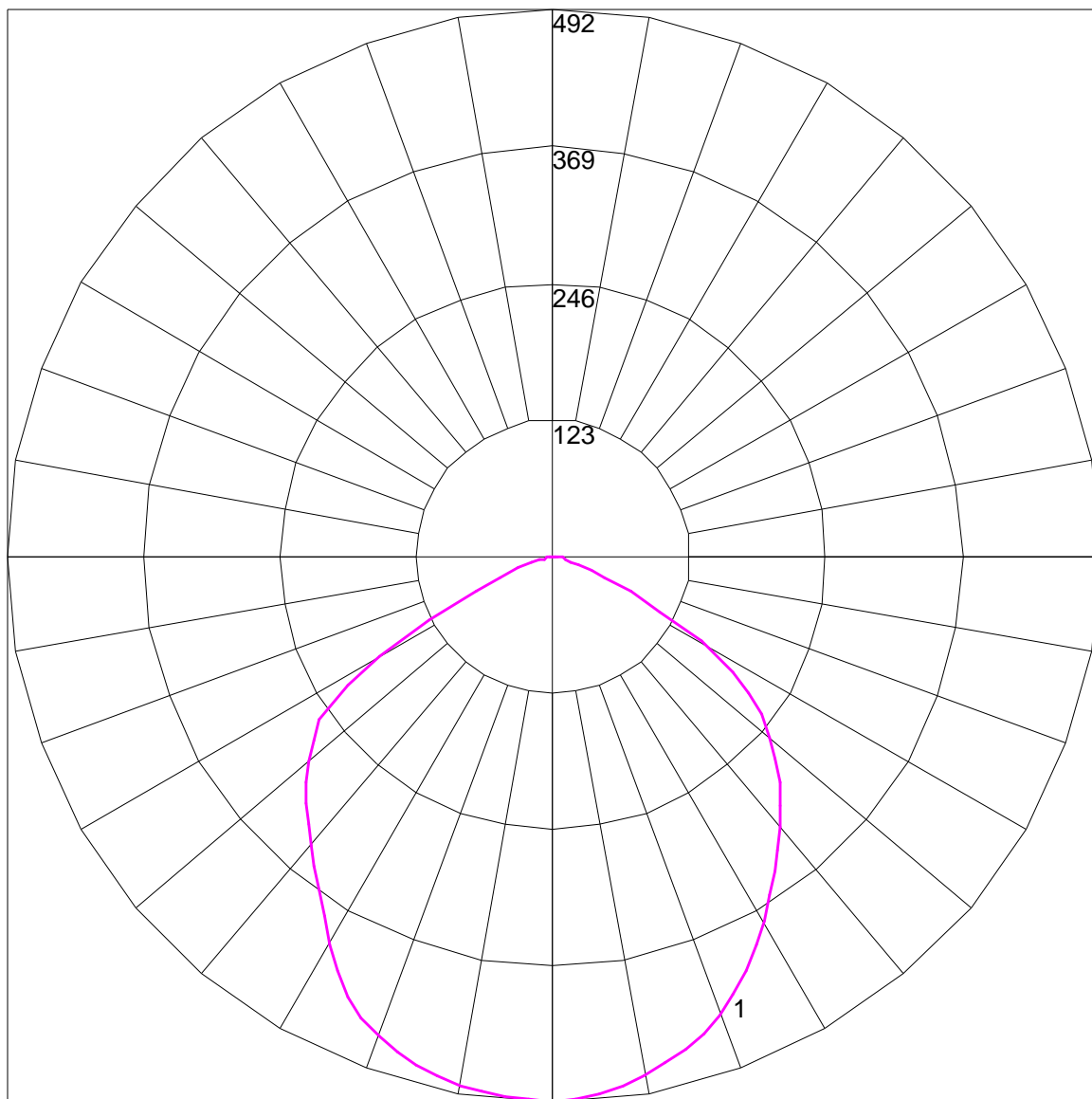
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76
3	94	84	77	71	91	83	76	71	80	74	70	77	72	68	75	71	67	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	63	59	57
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	60	52	47	59	51	46	57	51	46	55	50	45	44
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	30	55	43	35	30	42	35	30	41	35	30	40	34	30	28

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POLAR GRAPH



Maximum Candela = 491.901 Located At Horizontal Angle = 112.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)