

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00733 ~ ED2015GV-55L35KEX-TF2-MWI.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00733
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 10/30/2018
 [UPDATE] 11/20/2018
 [LUMCAT] ED2015GV-55L-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] CCT Multipliers: 27K x 0.971, 30K x 0.985, 40K x 1.03
 [OTHER] This report generated by Spectrum Lighting
 [_CRI] 85+
 [_CCTMULT] 27K x 0.971, 30K x 0.985, 40K x 1.03, 50K x 1.06
 [_LAMPMULT] 15L x 0.27, 27L x 0.46, 37L x 0.68

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4264
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	39
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	7411	7735	7897
55	6820	7311	7646
65	3312	3434	3217
75	1225	1094	939
85	576	540	406

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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	1818.589	1818.589	1818.589	1818.589	1818.589	1818.589	1818.589	1818.589	1818.589	1818.589
2.5	1811.870	1813.899	1811.406	1813.947	1815.746	1821.857	1821.200	1820.236	1817.521	1818.450
5.0	1801.144	1801.240	1802.906	1805.773	1809.924	1817.073	1818.731	1816.565	1813.820	1812.463
7.5	1782.249	1786.271	1790.881	1793.749	1797.738	1809.133	1811.894	1808.579	1805.044	1804.469
10.0	1760.401	1765.854	1773.022	1778.906	1783.463	1796.736	1799.524	1796.703	1794.155	1789.017
12.5	1734.097	1742.798	1750.085	1759.028	1764.888	1782.290	1784.858	1781.139	1776.915	1771.782
15.0	1704.227	1714.507	1723.114	1735.895	1743.531	1761.211	1767.688	1761.326	1757.483	1746.570
17.5	1669.675	1683.418	1693.124	1708.047	1717.321	1737.492	1745.107	1737.995	1731.758	1719.887
20.0	1628.595	1647.469	1656.631	1677.599	1685.441	1706.315	1717.372	1708.929	1704.192	1686.491
22.5	1580.039	1603.772	1615.907	1633.744	1644.857	1672.687	1681.326	1675.720	1665.143	1652.130
25.0	1525.211	1548.579	1561.781	1583.638	1593.543	1619.305	1638.365	1626.806	1623.418	1596.833
27.5	1464.194	1489.877	1500.101	1521.348	1528.106	1560.556	1578.426	1568.185	1560.268	1539.509
30.0	1404.281	1426.642	1439.217	1454.134	1462.470	1491.181	1506.353	1500.682	1493.285	1471.331
32.5	1345.318	1367.594	1378.713	1393.918	1396.608	1419.474	1438.197	1428.358	1427.082	1402.569
35.0	1289.384	1313.266	1324.696	1336.041	1337.072	1361.216	1372.471	1367.156	1360.987	1348.273
37.5	1235.728	1259.451	1273.321	1283.838	1283.882	1305.195	1316.240	1311.056	1309.609	1294.368
40.0	1181.611	1206.134	1221.918	1233.171	1233.908	1255.914	1265.107	1262.353	1259.586	1245.403
42.5	1127.197	1151.467	1170.505	1182.806	1186.712	1207.458	1217.901	1216.485	1213.955	1196.320
45.0	1067.412	1095.658	1113.980	1132.508	1137.450	1159.990	1172.475	1170.874	1168.541	1144.999
47.5	1004.630	1034.778	1056.027	1079.649	1086.653	1112.603	1125.745	1125.345	1118.895	1093.392
50.0	939.724	970.150	994.339	1026.352	1032.829	1063.313	1078.512	1076.980	1069.027	1038.662
52.5	873.798	902.578	931.785	965.004	977.020	1013.948	1024.987	1027.862	1012.035	980.993
55.0	796.750	833.142	854.131	902.641	893.254	938.627	969.427	941.446	950.268	902.039
57.5	715.225	728.694	773.793	776.604	793.853	859.270	832.740	847.260	810.657	804.437
60.0	567.622	605.055	599.928	645.158	619.129	651.323	674.845	646.446	665.648	605.183
62.5	397.179	457.192	414.076	460.708	408.741	448.152	486.778	427.948	464.658	418.523
65.0	285.085	297.912	295.591	275.747	276.951	310.254	292.218	296.026	280.401	285.826
67.5	188.991	206.449	184.829	198.981	176.603	185.406	200.544	174.620	195.473	175.318
70.0	135.746	137.579	132.890	128.566	119.137	127.659	124.741	121.537	123.331	120.891
72.5	91.140	95.273	87.624	84.986	73.291	80.984	83.011	75.634	79.809	79.115
75.0	64.567	62.383	57.650	56.094	49.509	49.377	52.314	48.201	52.043	48.588
77.5	46.177	45.507	40.581	39.543	33.961	36.346	35.377	32.694	34.131	35.478
80.0	31.969	30.014	28.383	27.099	23.806	25.983	25.547	22.228	22.886	24.317
82.5	18.408	18.617	17.839	16.927	13.921	16.142	16.429	13.789	14.368	14.846
85.0	10.232	9.161	9.590	9.087	7.207	8.864	8.601	8.077	7.780	7.641
87.5	2.989	4.780	3.417	3.586	3.161	3.958	3.057	3.440	2.523	2.473
90.0	0.658	0.593	0.818	0.480	0.850	1.121	0.830	0.961	0.518	0.687

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	1818.589	1818.589	1818.589	1818.589	1818.589	1818.589	1818.589
2.5	1816.475	1815.491	1815.122	1816.552	1814.588	1813.847	1811.870
5.0	1812.323	1808.861	1808.790	1807.159	1803.931	1803.036	1801.144
7.5	1801.494	1797.516	1795.492	1793.409	1789.780	1786.049	1782.249
10.0	1785.628	1779.995	1780.204	1773.632	1767.071	1764.799	1760.401
12.5	1765.673	1756.942	1755.991	1749.618	1740.025	1737.102	1734.097
15.0	1743.034	1731.062	1729.706	1720.568	1708.332	1705.600	1704.227
17.5	1715.135	1703.003	1697.698	1687.359	1674.590	1669.589	1669.675
20.0	1684.247	1667.862	1664.643	1649.893	1631.592	1631.281	1628.595
22.5	1642.913	1628.045	1621.576	1604.144	1585.191	1582.267	1580.039

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CANDELA TABULATION - (Cont.)

25.0	1596.546	1577.408	1577.178	1550.881	1528.410	1528.582	1525.211
27.5	1536.959	1520.483	1518.911	1495.134	1468.502	1469.589	1464.194
30.0	1471.840	1462.585	1459.377	1437.448	1411.399	1408.667	1404.281
32.5	1411.661	1404.207	1405.470	1383.189	1355.004	1351.576	1345.318
35.0	1353.196	1350.934	1351.860	1331.224	1303.049	1295.646	1289.384
37.5	1300.425	1299.814	1302.828	1281.822	1251.966	1243.152	1235.728
40.0	1249.264	1249.722	1253.887	1233.931	1199.798	1191.511	1181.611
42.5	1198.165	1199.995	1206.479	1180.594	1147.473	1133.924	1127.197
45.0	1147.081	1147.790	1158.379	1124.532	1086.807	1075.190	1067.412
47.5	1092.423	1094.863	1098.345	1063.047	1025.249	1011.309	1004.630
50.0	1037.120	1033.572	1037.530	999.281	956.694	946.649	939.724
52.5	973.262	970.295	969.006	926.911	887.697	877.104	873.798
55.0	908.286	885.407	895.388	851.423	805.655	807.052	796.750
57.5	775.278	796.460	786.390	731.829	722.597	699.515	715.225
60.0	635.911	611.663	664.127	599.156	551.825	589.721	567.622
62.5	455.277	413.699	472.003	441.365	384.159	428.535	397.179
65.0	273.869	293.840	302.397	277.490	279.703	269.059	285.085
67.5	197.405	182.576	215.640	197.789	183.294	200.512	188.991
70.0	127.329	130.774	143.184	132.608	132.687	137.599	135.746
72.5	85.389	85.818	95.161	93.344	90.685	95.840	91.140
75.0	56.554	57.005	67.011	63.451	61.299	66.413	64.567
77.5	39.049	39.481	47.774	45.912	45.216	47.053	46.177
80.0	26.068	27.413	31.258	30.351	31.425	31.992	31.969
82.5	15.379	17.681	18.114	18.666	18.352	20.567	18.408
85.0	8.083	7.988	8.831	9.573	9.039	10.976	10.232
87.5	2.899	2.888	3.486	3.801	3.510	2.996	2.989
90.0	0.701	0.754	0.674	0.598	0.681	0.636	0.658

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	661.04	N.A.	15.50
0-30	1386.46	N.A.	32.50
0-40	2225.73	N.A.	52.20
0-60	3866.21	N.A.	90.70
0-80	4252.13	N.A.	99.70
0-90	4263.85	N.A.	100.00
10-90	4092.08	N.A.	96.00
20-40	1564.7	N.A.	36.70
20-50	2437.14	N.A.	57.20
40-70	1957.48	N.A.	45.90
60-80	385.92	N.A.	9.10
70-80	68.91	N.A.	1.60
80-90	11.72	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	4263.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	171.77
10-20	489.26
20-30	725.42
30-40	839.28
40-50	872.44
50-60	768.03
60-70	317.01
70-80	68.91
80-90	11.72
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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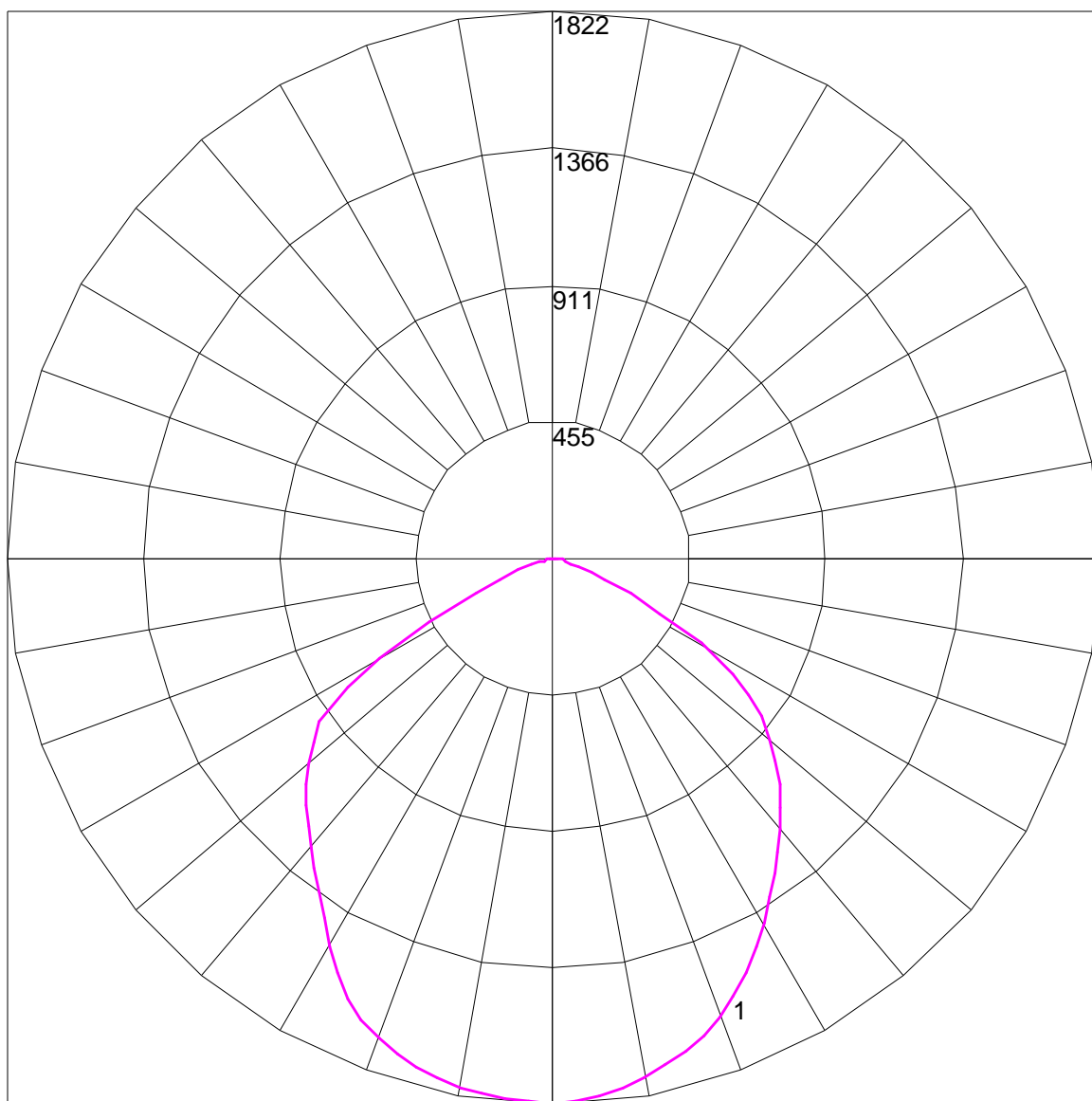
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	69	77	72	68	75	71	67	65
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	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	58	51	46	57	51	46	55	50	45	43
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 = 1821.857 Located At Horizontal Angle = 112.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)