

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00572\_1 ~ TD1617GV-37L35K-EX-TF2-MWI.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00572\_1\_M-37L  
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 9/18/2018  
 [UPDATE] 11/21/2018  
 [LUMCAT] TD1617GV-37L-35K-EX-TF2-MWI  
 [LUMINAIRE] Nom. 16" diam. x 17.1" H, Dedal Pendant  
 [OTHER] Reflector: Matte White interior finish  
 [OTHER] Beam Angle: 68.8 degrees  
 [OTHER] Regressed, Inside Frosted, Shallow Dome Diffuser  
 [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	2061
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.00
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.33 ft (Diameter)
Luminous Width (90-270)	1.33 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00572\_1 ~ TD1617GV-37L35K-EX-TF2-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3555	3456	3384
55	3348	3151	3122
65	2592	2391	2403
75	1788	1588	1634
85	438	245	330

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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>
<b>0.0</b>	1253.511	1253.511	1253.511	1253.511	1253.511	1253.511	1253.511	1253.511	1253.511	1253.511
<b>2.5</b>	1249.255	1249.350	1247.832	1244.565	1239.821	1244.565	1247.832	1249.350	1249.255	1253.617
<b>5.0</b>	1248.866	1241.630	1238.702	1234.995	1233.459	1234.995	1238.702	1241.630	1248.866	1250.339
<b>7.5</b>	1240.748	1236.175	1233.774	1230.911	1228.388	1230.911	1233.774	1236.175	1240.748	1243.247
<b>10.0</b>	1233.317	1230.938	1229.054	1227.068	1224.269	1227.068	1229.054	1230.938	1233.317	1237.208
<b>12.5</b>	1232.122	1230.694	1228.084	1224.860	1222.248	1224.860	1228.084	1230.694	1232.122	1236.567
<b>15.0</b>	1230.351	1229.954	1226.711	1222.322	1218.999	1222.322	1226.711	1229.954	1230.351	1234.933
<b>17.5</b>	1225.189	1223.861	1220.170	1214.772	1213.605	1214.772	1220.170	1223.861	1225.189	1229.503
<b>20.0</b>	1218.057	1216.350	1211.844	1205.735	1202.930	1205.735	1211.844	1216.350	1218.057	1221.984
<b>22.5</b>	1202.774	1199.415	1190.869	1184.153	1184.600	1184.153	1190.869	1199.415	1202.774	1208.481
<b>25.0</b>	1171.679	1165.905	1151.159	1143.978	1128.084	1143.978	1151.159	1165.905	1171.679	1179.656
<b>27.5</b>	1092.149	1057.973	1022.042	1004.150	1026.652	1004.150	1022.042	1057.973	1092.149	1116.748
<b>30.0</b>	969.647	923.890	875.041	849.606	862.986	849.606	875.041	923.890	969.647	1000.362
<b>32.5</b>	742.142	702.233	664.366	639.237	639.734	639.237	664.366	702.233	742.142	786.552
<b>35.0</b>	555.960	517.919	490.242	465.303	490.435	465.303	490.242	517.919	555.960	606.588
<b>37.5</b>	449.366	430.712	414.620	399.026	400.403	399.026	414.620	430.712	449.366	476.190
<b>40.0</b>	373.888	364.368	356.283	347.303	350.657	347.303	356.283	364.368	373.888	390.257
<b>42.5</b>	346.444	340.553	334.939	328.866	327.049	328.866	334.939	340.553	346.444	357.511
<b>45.0</b>	324.767	319.952	315.676	311.339	309.090	311.339	315.676	319.952	324.767	333.575
<b>47.5</b>	310.508	304.667	300.017	295.465	294.114	295.465	300.017	304.667	310.508	318.399
<b>50.0</b>	293.109	286.709	281.328	276.937	275.593	276.937	281.328	286.709	293.109	300.559
<b>52.5</b>	272.424	265.131	258.415	254.427	255.568	254.427	258.415	265.131	272.424	280.563
<b>55.0</b>	248.069	240.806	233.488	230.028	231.316	230.028	233.488	240.806	248.069	256.256
<b>57.5</b>	220.589	213.462	206.246	203.332	205.679	203.332	206.246	213.462	220.589	229.082
<b>60.0</b>	193.219	186.648	179.785	177.677	179.782	177.677	179.785	186.648	193.219	201.743
<b>62.5</b>	165.926	160.323	154.066	153.069	153.820	153.069	154.066	160.323	165.926	174.315
<b>65.0</b>	141.513	136.430	130.523	129.745	131.196	129.745	130.523	136.430	141.513	149.053
<b>67.5</b>	118.718	114.311	108.613	107.460	109.156	107.460	108.613	114.311	118.718	124.699
<b>70.0</b>	98.314	94.010	88.768	87.241	89.438	87.241	88.768	94.010	98.314	103.341
<b>72.5</b>	78.670	74.453	69.809	67.940	70.678	67.940	69.809	74.453	78.670	82.896
<b>75.0</b>	59.775	56.371	53.110	51.821	54.620	51.821	53.110	56.371	59.775	64.641
<b>77.5</b>	43.333	40.328	37.311	36.167	39.595	36.167	37.311	40.328	43.333	47.620
<b>80.0</b>	29.302	26.464	22.880	21.673	25.533	21.673	22.880	26.464	29.302	32.209
<b>82.5</b>	16.778	13.617	10.851	10.706	12.944	10.706	10.851	13.617	16.778	19.092
<b>85.0</b>	4.929	4.219	2.760	2.481	3.714	2.481	2.760	4.219	4.929	7.079
<b>87.5</b>	1.057	0.926	0.817	0.759	0.619	0.759	0.817	0.926	1.057	1.465
<b>90.0</b>	0.424	0.511	0.454	0.282	0.471	0.282	0.454	0.511	0.424	0.354
<b>92.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>97.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>102.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>107.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>112.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>117.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>122.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	1253.511	1253.511	1253.511	1253.511	1253.511	1253.511	1253.511
2.5	1255.872	1254.754	1247.266	1254.754	1255.872	1253.617	1249.255
5.0	1254.705	1255.109	1246.181	1255.109	1254.705	1250.339	1248.866
7.5	1247.710	1249.358	1244.525	1249.358	1247.710	1243.247	1240.748
10.0	1241.767	1244.818	1242.756	1244.818	1241.767	1237.208	1233.317
12.5	1240.944	1245.634	1244.668	1245.634	1240.944	1236.567	1232.122
15.0	1239.375	1245.725	1247.054	1245.725	1239.375	1234.933	1230.351
17.5	1235.160	1243.429	1243.572	1243.429	1235.160	1229.503	1225.189
20.0	1228.988	1238.173	1239.648	1238.173	1228.988	1221.984	1218.057
22.5	1217.410	1225.442	1225.174	1225.442	1217.410	1208.481	1202.774
25.0	1192.900	1202.736	1209.075	1202.736	1192.900	1179.656	1171.679
27.5	1140.558	1159.913	1145.577	1159.913	1140.558	1116.748	1092.149
30.0	1033.734	1058.992	1070.190	1058.992	1033.734	1000.362	969.647
32.5	832.877	862.995	852.347	862.995	832.877	786.552	742.142
35.0	654.084	682.009	645.945	682.009	654.084	606.588	555.960
37.5	506.665	520.867	517.226	520.867	506.665	476.190	449.366
40.0	409.991	416.452	405.430	416.452	409.991	390.257	373.888
42.5	371.882	374.316	372.754	374.316	371.882	357.511	346.444
45.0	344.782	345.747	343.620	345.747	344.782	333.575	324.767
47.5	328.172	329.392	326.757	329.392	328.172	318.399	310.508
50.0	309.281	311.288	308.796	311.288	309.281	300.559	293.109
52.5	288.595	291.904	287.944	291.904	288.595	280.563	272.424
55.0	263.609	267.131	264.595	267.131	263.609	256.256	248.069
57.5	235.886	239.082	235.931	239.082	235.886	229.082	220.589
60.0	207.653	210.617	207.382	210.617	207.653	201.743	193.219
62.5	179.153	181.950	179.026	181.950	179.153	174.315	165.926
65.0	153.635	156.138	152.669	156.138	153.635	149.053	141.513

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**CANDELA TABULATION - (Cont.)**

67.5	129.324	131.394	128.959	131.394	129.324	124.699	118.718
70.0	107.813	109.652	106.358	109.652	107.813	103.341	98.314
72.5	87.128	88.835	84.590	88.835	87.128	82.896	78.670
75.0	68.420	70.387	66.548	70.387	68.420	64.641	59.775
77.5	51.277	52.683	50.155	52.683	51.277	47.620	43.333
80.0	35.580	36.247	35.498	36.247	35.580	32.209	29.302
82.5	21.364	22.257	19.774	22.257	21.364	19.092	16.778
85.0	9.847	10.646	8.524	10.646	9.847	7.079	4.929
87.5	1.984	2.428	1.676	2.428	1.984	1.465	1.057
90.0	0.374	0.377	0.404	0.377	0.374	0.354	0.424
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	467.14	N.A.	22.70
0-30	990.39	N.A.	48.10
0-40	1366.68	N.A.	66.30
0-60	1843.11	N.A.	89.40
0-80	2050.19	N.A.	99.50
0-90	2060.68	N.A.	100.00
10-90	1942.14	N.A.	94.20
20-40	899.54	N.A.	43.70
20-50	1155.63	N.A.	56.10
40-70	618.42	N.A.	30.00
60-80	207.08	N.A.	10.00
70-80	65.09	N.A.	3.20
80-90	10.49	N.A.	0.50
90-110	0.06	N.A.	0.00
90-120	0.06	N.A.	0.00
90-130	0.06	N.A.	0.00
90-150	0.06	N.A.	0.00
90-180	0.06	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2060.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	118.54
10-20	348.60
20-30	523.25
30-40	376.29
40-50	256.09
50-60	220.34
60-70	141.98
70-80	65.09
80-90	10.49
90-100	0.06
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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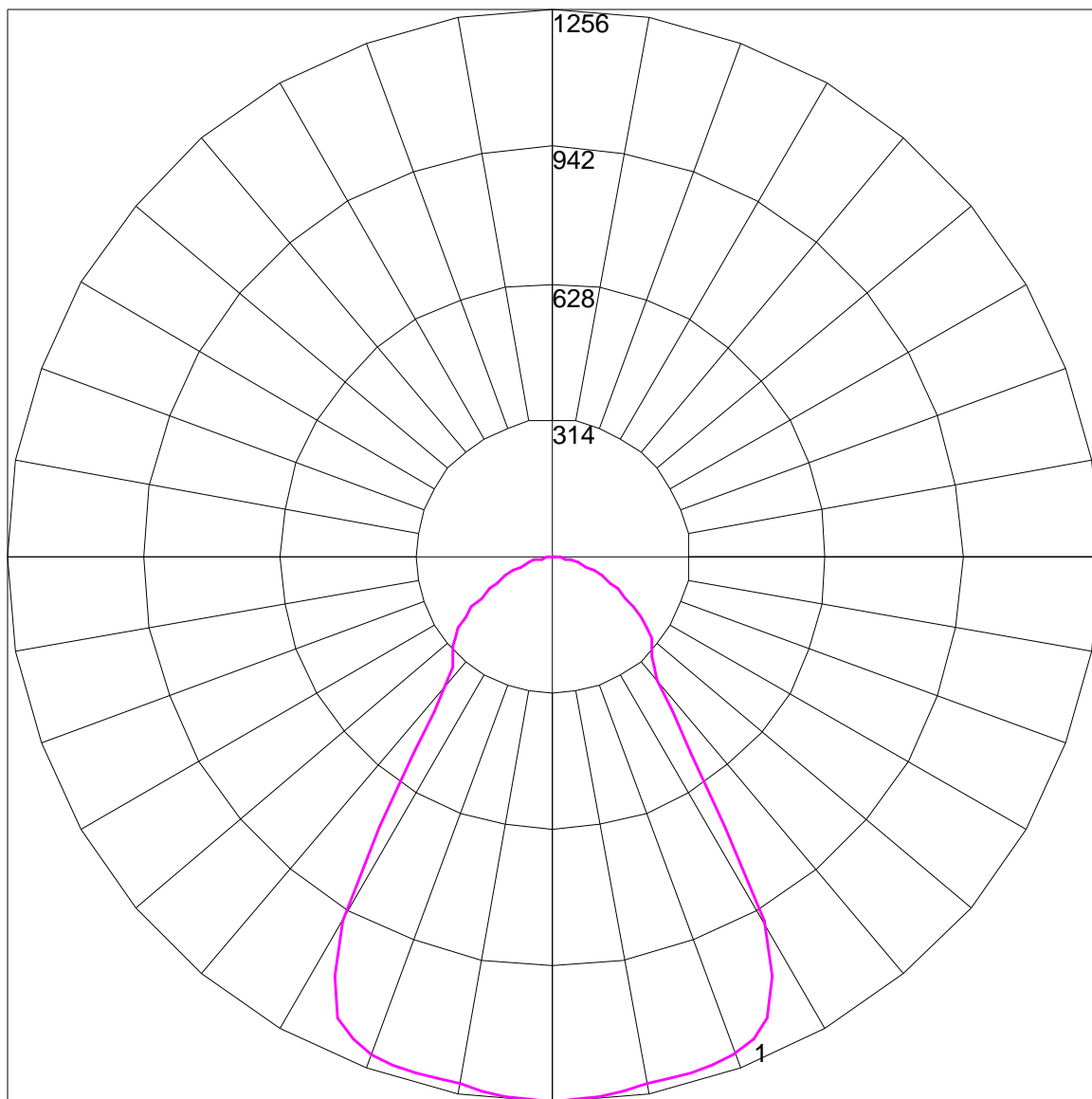
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89
2	103	97	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	67	59	53	76	66	58	53	64	58	53	62	57	52	61	56	52	50
7	73	61	54	49	71	61	53	48	59	53	48	58	52	48	57	51	47	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	48	44	42
9	65	53	46	41	63	52	46	41	51	45	41	50	45	40	49	44	40	39
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00572\_1 ~ TD1617GV-37L35K-EX-TF2-MWI.IES

POLAR GRAPH



Maximum Candela = 1255.872 Located At Horizontal Angle = 225, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)