

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00674 ~ HD24GV-37L35K-EX-MWI.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00674\_M-37L  
 [TESTLAB] Spectrum Photometric Lab VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 4/20/2018  
 [UPDATE] 5/3/2018  
 [LUMCAT] HD24GV-37L-35K-EX-MWI-xx  
 [LUMINAIRE] Nom. 24" diam x 11.9" H, Half Dome luminaire  
 [OTHER] Regressed, 6" diam low profile frosted glass diffuser  
 [OTHER] Reflector: Matte White interior finish  
 [OTHER] Nom. 99 Degree Beam Angle  
 [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	2755
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Circular
Luminous Length (0-180)	2.00 ft (Diameter)
Luminous Width (90-270)	2.00 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	3961	3981	3996
55	2083	2220	2337
65	1034	1063	1075
75	1019	1058	1082
85	642	732	832

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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>	1314.702	1314.702	1314.702	1314.702	1314.702	1314.702	1314.702	1314.702	1314.702	1314.702
<b>2.5</b>	1309.086	1310.162	1304.595	1302.588	1300.993	1301.308	1306.167	1308.723	1312.137	1313.486
<b>5.0</b>	1298.974	1296.914	1290.415	1289.065	1285.413	1283.688	1290.803	1295.576	1305.006	1304.367
<b>7.5</b>	1280.156	1277.020	1269.558	1267.740	1264.755	1261.641	1269.060	1273.823	1284.105	1287.638
<b>10.0</b>	1260.071	1254.040	1245.998	1244.999	1241.554	1235.655	1244.156	1249.445	1262.307	1266.446
<b>12.5</b>	1235.278	1228.269	1219.276	1217.958	1216.801	1207.640	1215.022	1220.284	1233.956	1240.182
<b>15.0</b>	1208.766	1201.495	1191.131	1190.434	1188.061	1177.083	1184.257	1189.746	1205.371	1211.322
<b>17.5</b>	1177.398	1171.746	1161.620	1160.334	1157.358	1145.466	1152.707	1157.140	1172.639	1180.038
<b>20.0</b>	1145.902	1141.182	1130.945	1130.083	1126.729	1114.565	1120.923	1124.707	1139.890	1148.717
<b>22.5</b>	1114.125	1110.014	1099.353	1099.809	1096.129	1083.892	1088.383	1092.483	1106.971	1117.366
<b>25.0</b>	1081.700	1078.727	1068.259	1069.495	1066.601	1052.499	1055.677	1060.728	1074.209	1084.396
<b>27.5</b>	1048.139	1045.597	1037.479	1038.435	1037.389	1020.936	1024.860	1029.436	1042.391	1050.431
<b>30.0</b>	1015.311	1012.232	1007.345	1007.716	1006.546	992.198	994.319	998.480	1010.689	1017.487
<b>32.5</b>	983.544	982.040	977.543	980.223	975.347	963.934	966.718	967.800	979.480	985.051
<b>35.0</b>	953.044	952.079	949.221	952.609	948.015	935.536	939.367	939.497	948.724	954.483
<b>37.5</b>	924.025	923.997	921.505	924.290	921.243	907.124	910.568	912.756	919.398	924.651
<b>40.0</b>	893.174	895.740	891.802	895.340	892.431	876.816	881.604	881.714	888.832	891.336
<b>42.5</b>	860.591	862.244	861.483	863.883	863.440	846.359	847.622	848.421	855.284	856.980
<b>45.0</b>	818.295	826.735	822.285	828.076	825.429	805.985	811.907	808.157	817.141	814.838
<b>47.5</b>	768.359	769.042	781.031	778.988	785.249	759.882	752.829	764.932	770.042	770.937
<b>50.0</b>	646.851	694.665	652.732	693.960	669.492	624.344	679.240	642.874	676.145	636.908
<b>52.5</b>	480.054	514.247	510.402	524.841	550.695	488.132	500.969	495.178	509.601	489.211
<b>55.0</b>	349.000	350.488	371.930	376.316	391.663	346.420	338.382	361.868	367.254	354.098
<b>57.5</b>	235.939	258.378	233.820	265.689	245.812	220.329	250.030	231.992	255.146	220.065
<b>60.0</b>	178.934	181.188	187.504	186.202	193.987	177.172	175.262	180.189	181.863	177.523
<b>62.5</b>	144.743	152.774	145.423	153.876	148.498	140.105	148.652	141.851	148.974	138.669
<b>65.0</b>	127.616	129.179	131.203	130.627	132.738	125.779	125.973	126.544	127.813	125.888
<b>67.5</b>	115.704	116.968	117.388	118.139	118.245	112.436	113.226	113.647	116.314	113.216
<b>70.0</b>	103.266	105.122	106.462	106.012	107.175	101.314	100.840	102.551	104.434	101.284
<b>72.5</b>	90.588	93.714	94.263	94.126	95.005	89.470	88.910	90.756	92.381	88.818
<b>75.0</b>	77.073	79.392	80.002	81.050	81.819	77.039	75.977	77.261	78.710	75.506
<b>77.5</b>	62.972	64.622	65.159	66.726	66.785	62.036	62.371	62.649	64.633	61.062
<b>80.0</b>	48.064	50.693	49.937	50.908	51.981	46.474	47.847	47.908	50.055	46.394
<b>82.5</b>	32.032	33.539	34.393	35.946	37.162	30.421	32.360	33.090	34.982	31.436
<b>85.0</b>	16.336	17.446	18.647	20.448	21.180	14.876	16.083	16.761	17.585	15.814
<b>87.5</b>	3.620	3.632	4.516	5.847	6.704	3.261	3.614	3.641	4.816	3.276
<b>90.0</b>	0.521	0.401	0.903	0.223	0.627	0.429	0.458	0.701	0.388	0.549
<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	1314.702	1314.702	1314.702	1314.702	1314.702	1314.702	1314.702
2.5	1313.576	1311.056	1311.176	1315.980	1315.697	1314.469	1309.086
5.0	1307.288	1306.200	1304.542	1311.324	1309.800	1306.355	1298.974
7.5	1292.699	1292.633	1291.654	1301.026	1296.059	1290.163	1280.156
10.0	1274.381	1275.973	1273.226	1284.881	1278.453	1271.908	1260.071
12.5	1250.322	1252.244	1251.426	1263.872	1256.697	1248.126	1235.278
15.0	1224.274	1226.922	1227.176	1238.783	1232.071	1223.364	1208.766
17.5	1194.762	1198.686	1200.575	1211.964	1204.881	1194.204	1177.398
20.0	1164.319	1168.560	1172.603	1183.958	1175.150	1164.545	1145.902
22.5	1132.379	1135.633	1141.455	1153.660	1143.583	1132.912	1114.125
25.0	1100.156	1102.614	1108.795	1122.086	1110.819	1101.168	1081.700
27.5	1066.300	1069.483	1074.782	1088.613	1077.363	1068.037	1048.139
30.0	1032.251	1035.804	1040.267	1054.306	1044.358	1034.956	1015.311
32.5	999.467	1001.584	1007.017	1020.647	1011.567	1002.833	983.544
35.0	966.765	967.779	974.118	987.210	977.690	970.767	953.044
37.5	933.626	934.306	939.381	953.126	943.414	939.209	924.025
40.0	900.224	897.379	904.263	918.874	909.211	906.789	893.174
42.5	861.283	858.211	863.094	879.042	875.027	869.538	860.591
45.0	819.994	810.418	821.109	838.191	828.960	828.390	818.295
47.5	755.068	758.026	738.795	772.589	780.455	771.355	768.359
50.0	673.383	624.374	653.632	704.080	652.160	684.626	646.851
52.5	491.314	456.694	474.457	528.402	513.243	508.650	480.054
55.0	328.063	331.799	296.957	346.373	372.466	355.930	349.000
57.5	242.119	220.597	228.287	261.395	231.560	256.870	235.939
60.0	170.808	171.945	163.737	179.233	186.973	181.782	178.934
62.5	145.489	138.625	143.518	153.643	145.242	151.616	144.743
65.0	124.344	123.772	124.624	129.541	131.222	128.963	127.616

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**CANDELA TABULATION - (Cont.)**

67.5	112.733	111.989	113.545	117.448	117.609	117.178	115.704
70.0	101.088	100.777	101.475	105.207	106.452	104.945	103.266
72.5	89.403	88.930	87.244	92.592	94.001	92.358	90.588
75.0	75.531	75.142	73.621	79.325	79.607	78.078	77.073
77.5	61.180	60.754	59.945	65.373	63.593	63.292	62.972
80.0	47.074	45.753	44.692	49.893	48.582	48.143	48.064
82.5	31.186	29.877	29.285	33.587	33.762	33.935	32.032
85.0	15.131	13.536	12.683	18.245	16.684	17.078	16.336
87.5	2.819	2.231	2.174	4.335	3.585	4.081	3.620
90.0	0.299	0.610	0.676	0.470	0.735	0.393	0.521
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	462.92	N.A.	16.80
0-30	962.62	N.A.	34.90
0-40	1562.52	N.A.	56.70
0-60	2521.18	N.A.	91.50
0-80	2733.96	N.A.	99.20
0-90	2755.18	N.A.	100.00
10-90	2632.46	N.A.	95.50
20-40	1099.6	N.A.	39.90
20-50	1722.27	N.A.	62.50
40-70	1090.05	N.A.	39.60
60-80	212.78	N.A.	7.70
70-80	81.40	N.A.	3.00
80-90	21.22	N.A.	0.80
90-110	0.07	N.A.	0.00
90-120	0.07	N.A.	0.00
90-130	0.07	N.A.	0.00
90-150	0.07	N.A.	0.00
90-180	0.07	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2755.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	122.73
10-20	340.19
20-30	499.71
30-40	599.89
40-50	622.67
50-60	336.00
60-70	131.38
70-80	81.40
80-90	21.22
90-100	0.07
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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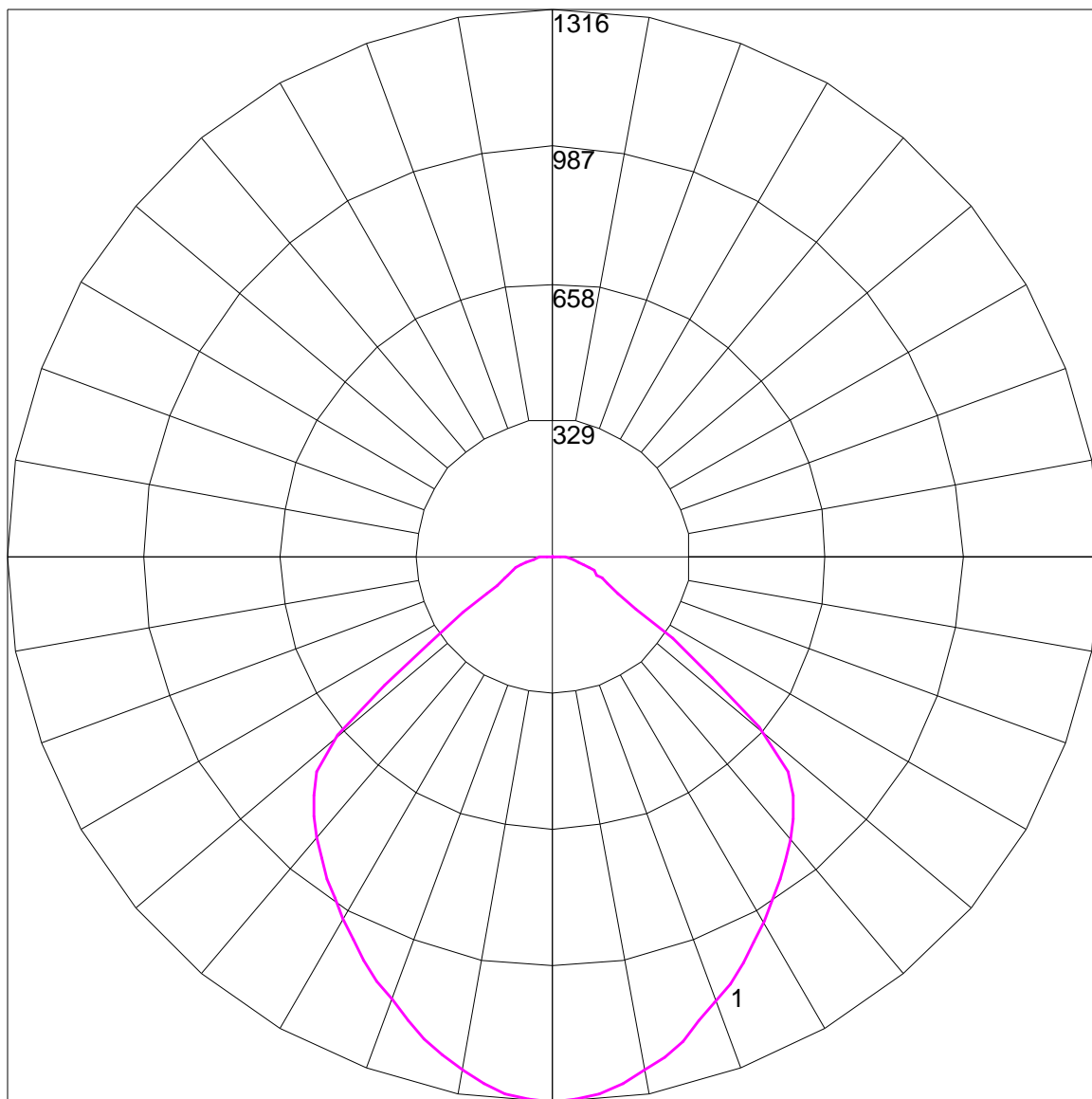
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	99	100	98	95	97	95	93	93	91	90	88
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76
3	95	85	78	73	92	84	77	72	81	76	71	78	74	70	76	72	69	67
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	59
5	81	69	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52
6	75	63	55	49	73	62	55	49	60	54	49	59	53	48	57	52	48	46
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	39	51	44	39	50	43	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	33
10	57	45	38	33	56	44	37	33	44	37	32	43	37	32	42	36	32	30

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00674 ~ HD24GV-37L35K-EX-MWI.IES

POLAR GRAPH



Maximum Candela = 1315.98 Located At Horizontal Angle = 292.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)