

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00675 ~ HD30GV-37L35K-EX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00675\_M-37L

[TESTLAB] Spectrum Photometric Lab VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 4/20/2018

[UPDATE] 5/3/2018

[LUMCAT] HD30GV-37L-35K-EX-MWI-xx

[LUMINAIRE] Nom. 30" diam x 11.5" H, Half Dome luminaire

[OTHER] Regressed, 6" diam low profile frosted glass diffuser

[OTHER] Reflector: Matte White interior finish

[OTHER] Nom. 100 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	2781
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Circular
Luminous Length (0-180)	2.50 ft (Diameter)
Luminous Width (90-270)	2.50 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	2413	2469	2481
55	1863	2155	2261
65	533	637	687
75	462	511	516
85	279	412	480

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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>	1361.001	1361.001	1361.001	1361.001	1361.001	1361.001	1361.001	1361.001	1361.001	1361.001
<b>2.5</b>	1350.993	1354.128	1358.357	1365.041	1367.418	1358.871	1350.905	1344.144	1347.680	1337.850
<b>5.0</b>	1334.122	1342.065	1351.968	1358.134	1359.219	1344.916	1333.758	1318.645	1323.454	1311.869
<b>7.5</b>	1306.303	1316.329	1324.116	1335.444	1330.816	1311.661	1299.292	1283.521	1289.020	1272.619
<b>10.0</b>	1275.156	1287.227	1295.066	1305.501	1299.484	1276.268	1263.168	1245.181	1249.334	1233.083
<b>12.5</b>	1240.500	1255.065	1261.298	1272.269	1263.303	1237.337	1224.847	1204.606	1209.767	1193.006
<b>15.0</b>	1206.241	1222.364	1227.716	1237.860	1226.947	1199.802	1186.440	1166.738	1170.249	1154.580
<b>17.5</b>	1172.327	1188.992	1194.690	1202.971	1190.356	1164.131	1149.773	1130.383	1133.210	1118.710
<b>20.0</b>	1138.378	1155.545	1161.265	1167.952	1154.604	1128.294	1113.294	1095.830	1096.957	1083.856
<b>22.5</b>	1104.405	1120.778	1126.915	1132.978	1119.764	1092.273	1079.776	1062.076	1063.110	1050.274
<b>25.0</b>	1068.731	1085.941	1091.997	1098.013	1084.322	1057.029	1046.188	1029.574	1029.839	1017.714
<b>27.5</b>	1032.059	1049.184	1056.024	1061.779	1048.333	1022.490	1011.977	997.519	997.137	986.210
<b>30.0</b>	996.909	1012.454	1019.724	1025.378	1012.307	987.591	978.047	965.842	964.531	954.779
<b>32.5</b>	962.470	976.342	982.930	988.397	976.253	952.426	945.648	934.267	934.639	923.412
<b>35.0</b>	926.275	940.207	946.200	951.374	940.657	918.978	913.427	902.489	905.026	893.453
<b>37.5</b>	889.439	903.834	909.549	914.699	905.340	886.587	881.891	870.673	874.446	864.472
<b>40.0</b>	853.317	867.395	872.666	878.058	870.306	854.268	850.713	840.777	843.820	834.405
<b>42.5</b>	817.399	830.567	835.550	842.281	835.410	821.982	820.601	811.132	813.378	803.715
<b>45.0</b>	778.886	793.071	797.056	806.312	800.686	790.383	789.686	780.481	782.859	772.085
<b>47.5</b>	739.836	752.824	757.406	768.069	766.028	759.048	756.913	749.759	750.951	740.025
<b>50.0</b>	692.838	709.536	713.565	728.624	725.195	721.095	720.912	710.404	717.600	700.600
<b>52.5</b>	644.756	656.606	666.876	680.837	682.515	681.122	679.010	667.744	670.893	658.556
<b>55.0</b>	487.808	569.515	564.154	618.365	592.021	587.448	593.406	525.834	605.495	528.761
<b>57.5</b>	321.923	399.256	430.354	487.788	490.850	481.784	441.656	384.962	433.278	374.492
<b>60.0</b>	222.085	257.766	302.712	358.739	341.175	335.126	306.478	255.680	277.718	255.548
<b>62.5</b>	125.961	171.496	177.823	234.951	184.177	182.278	191.618	139.238	188.666	143.673
<b>65.0</b>	102.888	111.280	122.915	137.435	132.625	132.076	121.145	108.626	116.849	108.190
<b>67.5</b>	81.550	90.908	91.928	106.141	91.459	92.376	94.431	82.900	95.055	82.528
<b>70.0</b>	71.888	76.755	79.202	84.191	81.298	81.449	78.565	73.559	78.270	73.098
<b>72.5</b>	62.782	67.783	69.456	74.010	71.122	70.865	68.733	63.944	68.491	63.829
<b>75.0</b>	54.533	57.701	60.359	64.352	60.910	61.066	58.806	54.038	58.968	54.835
<b>77.5</b>	44.015	46.990	49.974	54.180	51.070	50.566	48.307	43.711	49.072	43.924
<b>80.0</b>	32.692	35.548	38.622	42.374	40.720	39.853	37.067	33.412	37.935	32.594
<b>82.5</b>	21.391	24.956	26.935	32.318	29.615	28.952	25.503	23.024	27.216	21.714
<b>85.0</b>	11.092	13.812	16.393	21.058	19.103	17.653	16.172	12.904	15.216	11.201
<b>87.5</b>	2.710	4.502	5.763	9.515	8.352	7.931	6.535	3.797	5.975	3.425
<b>90.0</b>	0.809	0.490	0.872	0.914	1.702	1.404	0.438	0.384	0.325	0.571
<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	1361.001	1361.001	1361.001	1361.001	1361.001	1361.001	1361.001
2.5	1334.946	1331.224	1341.989	1345.476	1345.936	1355.215	1350.993
5.0	1305.808	1298.632	1309.928	1318.829	1325.526	1335.911	1334.122
7.5	1266.935	1259.642	1270.721	1284.335	1291.692	1308.861	1306.303
10.0	1227.453	1220.003	1229.382	1247.502	1256.744	1275.652	1275.156
12.5	1188.917	1179.608	1189.905	1210.378	1218.154	1240.365	1240.500
15.0	1150.535	1141.172	1150.852	1173.188	1180.350	1203.700	1206.241
17.5	1115.353	1104.646	1114.625	1135.576	1144.513	1167.662	1172.327
20.0	1080.341	1070.379	1078.835	1097.899	1109.141	1131.959	1138.378
22.5	1047.088	1037.903	1046.021	1062.953	1074.697	1097.164	1104.405
25.0	1014.135	1005.900	1013.486	1028.253	1040.187	1062.757	1068.731
27.5	983.033	974.199	981.300	995.115	1005.568	1027.493	1032.059
30.0	952.008	943.105	949.150	962.045	971.339	991.940	996.909
32.5	921.309	912.332	918.552	929.426	937.624	956.960	962.470
35.0	890.496	881.861	887.868	896.851	904.086	922.124	926.275
37.5	859.306	851.516	855.855	864.912	870.742	886.949	889.439
40.0	828.630	820.320	823.914	832.929	837.830	851.712	853.317
42.5	799.231	788.843	792.559	800.577	805.302	817.853	817.399
45.0	768.109	754.699	759.899	767.239	770.345	784.157	778.886
47.5	733.609	719.888	720.395	728.718	733.624	744.287	739.836
50.0	691.807	670.802	674.050	683.136	686.835	704.069	692.838
52.5	638.193	619.225	601.625	611.207	634.067	640.337	644.756
55.0	530.239	453.221	502.618	511.728	496.980	571.662	487.808
57.5	351.242	274.397	326.197	332.017	319.338	393.922	321.923
60.0	221.133	188.558	186.954	190.118	212.014	226.814	222.085
62.5	143.731	107.916	131.643	133.589	131.150	162.648	125.961
65.0	98.707	91.262	92.116	93.261	100.305	106.089	102.888

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**CANDELA TABULATION - (Cont.)**

67.5	81.830	75.424	80.155	80.819	84.117	90.739	81.550
70.0	70.146	65.963	69.653	69.765	72.656	77.015	71.888
72.5	60.963	56.834	60.533	60.026	62.063	66.727	62.782
75.0	50.917	48.269	49.129	50.459	52.912	56.784	54.533
77.5	40.672	37.386	37.919	40.700	42.605	46.789	44.015
80.0	30.308	26.171	27.864	30.426	31.433	35.865	32.692
82.5	20.400	15.277	16.950	17.861	19.932	24.211	21.391
85.0	9.246	5.772	7.043	7.887	10.016	12.623	11.092
87.5	2.646	1.279	1.271	1.803	2.484	3.351	2.710
90.0	0.301	0.490	0.850	0.327	0.781	0.409	0.809
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

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	459.37	N.A.	16.50
0-30	942.79	N.A.	33.90
0-40	1515.27	N.A.	54.50
0-60	2577.19	N.A.	92.70
0-80	2764.89	N.A.	99.40
0-90	2780.82	N.A.	100.00
10-90	2656.15	N.A.	95.50
20-40	1055.9	N.A.	38.00
20-50	1657.73	N.A.	59.60
40-70	1191.13	N.A.	42.80
60-80	187.70	N.A.	6.70
70-80	58.50	N.A.	2.10
80-90	15.92	N.A.	0.60
90-110	0.09	N.A.	0.00
90-120	0.09	N.A.	0.00
90-130	0.09	N.A.	0.00
90-150	0.09	N.A.	0.00
90-180	0.09	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2780.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	124.66
10-20	334.71
20-30	483.42
30-40	572.48
40-50	601.84
50-60	460.09
60-70	129.21
70-80	58.50
80-90	15.92
90-100	0.09
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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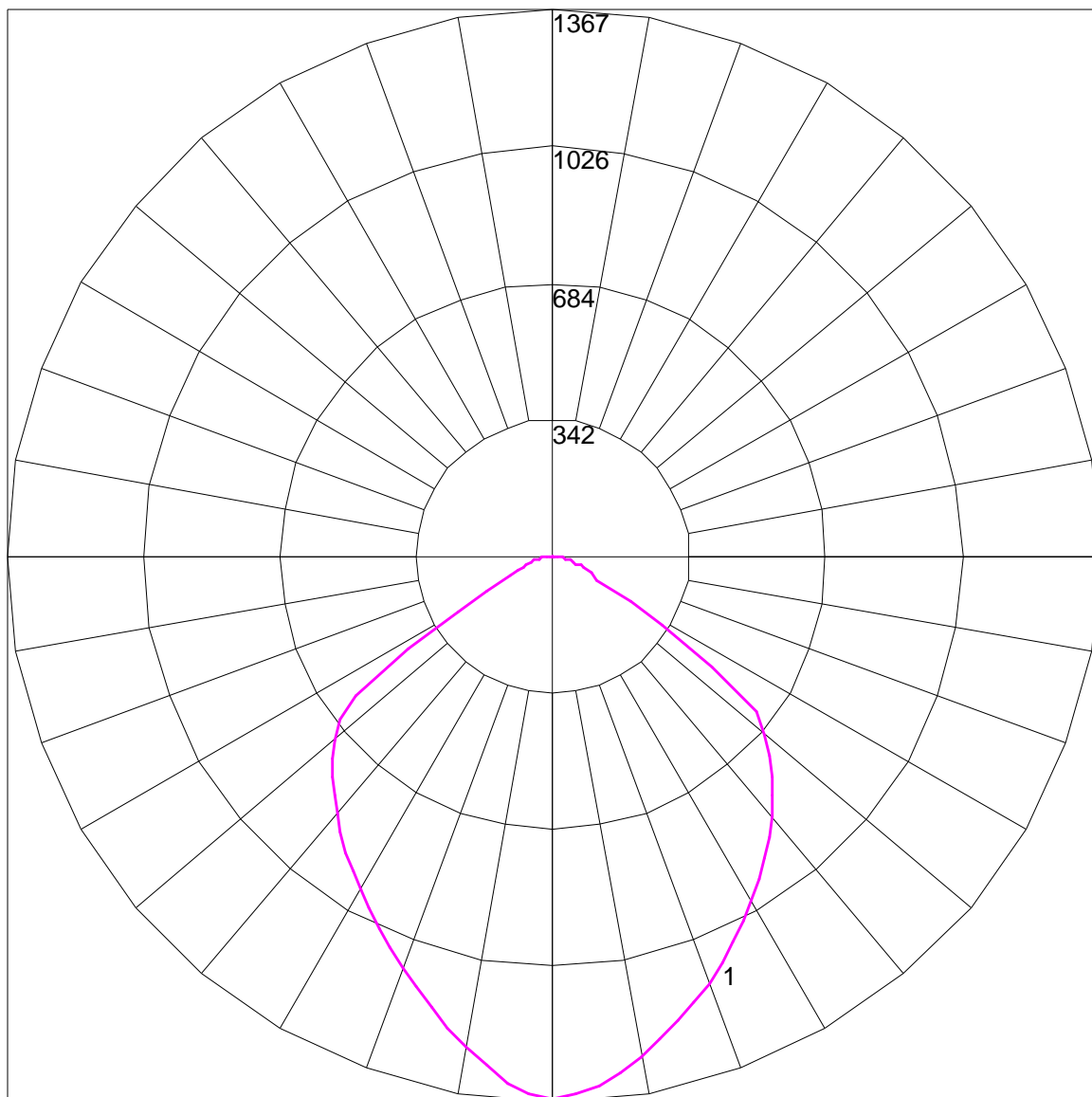
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	102	99	101	98	96	97	95	93	93	92	90	88
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	76	69	63	85	75	68	62	73	66	61	71	65	61	68	64	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	31	41	35	31	30

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00675 ~ HD30GV-37L35K-EX-MWI.IES

POLAR GRAPH



Maximum Candela = 1367.418 Located At Horizontal Angle = 90, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)