

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00673 ~ HD1606GV-37L35K-EX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00673_M-37L
[TESTLAB] Spectrum Photometric Lab VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 4/20/2018
[UPDATE] 5/25/2018
[LUMCAT] HD1606GV-37L-35K-EX-MWI
[LUMINAIRE] Nom. 16" diam x 6.4" H, Half Dome luminaire
[OTHER] Regressed, 6" diam low profile frosted glass diffuser
[OTHER] Reflector: Matte White interior finish
[OTHER] Nom. 109 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	2664
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
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

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7775	7797	7952
55	7008	7242	7477
65	3296	3570	3852
75	1854	2006	2149
85	1609	1866	2112

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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	1083.057	1083.057	1083.057	1083.057	1083.057	1083.057	1083.057	1083.057	1083.057	1083.057
2.5	1079.095	1079.055	1079.509	1080.743	1084.199	1084.769	1086.045	1085.476	1086.577	1084.081
5.0	1069.697	1073.112	1073.467	1077.141	1081.112	1082.134	1086.142	1085.386	1085.658	1082.134
7.5	1058.033	1062.759	1064.133	1070.617	1075.425	1077.075	1081.970	1081.179	1082.306	1077.364
10.0	1043.878	1048.468	1051.842	1059.495	1065.540	1068.941	1075.076	1074.906	1075.296	1069.129
12.5	1028.655	1032.140	1035.868	1045.752	1053.792	1059.150	1065.578	1064.780	1065.690	1058.328
15.0	1010.338	1014.220	1017.845	1028.466	1038.400	1045.057	1054.616	1053.143	1052.676	1044.254
17.5	990.916	994.520	997.588	1009.912	1021.606	1028.997	1038.090	1039.095	1038.105	1028.064
20.0	970.271	973.624	976.659	989.880	1001.585	1009.124	1018.906	1022.633	1021.772	1009.514
22.5	949.266	951.619	955.100	968.477	980.540	987.763	999.138	1002.864	1002.770	989.660
25.0	926.083	928.954	932.389	945.657	957.225	965.128	979.136	980.886	981.122	966.254
27.5	902.363	906.485	908.730	922.525	933.328	942.074	954.312	956.225	956.636	941.128
30.0	877.630	884.117	883.915	899.114	907.596	915.481	927.820	929.717	929.685	914.160
32.5	852.703	859.342	858.266	873.575	881.475	887.943	898.542	901.271	901.216	886.442
35.0	826.632	833.538	832.091	846.395	852.639	857.672	868.476	870.567	871.610	855.545
37.5	800.399	806.376	805.589	817.289	823.366	826.810	835.294	837.818	838.963	823.573
40.0	771.311	778.713	776.255	786.869	792.170	792.811	801.392	803.252	804.331	789.126
42.5	741.925	746.774	745.401	755.369	760.748	758.279	765.847	767.226	767.624	753.966
45.0	710.244	713.536	712.306	723.237	726.409	722.136	730.000	729.136	729.741	715.582
47.5	678.422	680.621	678.176	689.039	691.843	685.797	691.352	689.618	689.787	676.456
50.0	641.852	647.786	641.685	653.794	653.709	646.645	652.329	645.967	648.833	634.002
52.5	604.778	600.677	604.279	611.869	615.444	607.264	600.339	599.825	593.183	590.958
55.0	519.276	550.706	536.605	567.038	554.074	531.086	547.150	519.141	531.354	507.434
57.5	432.991	453.188	458.854	482.783	491.171	453.296	443.039	420.430	434.529	418.348
60.0	330.011	348.544	360.518	384.204	381.468	349.460	336.163	326.183	325.450	322.463
62.5	231.131	265.505	256.607	294.215	274.856	246.745	258.078	233.906	247.504	225.952
65.0	179.977	184.700	194.927	206.842	210.337	191.624	182.060	178.054	178.477	176.796
67.5	132.922	146.118	142.058	158.524	151.295	140.136	144.504	135.529	139.759	131.038
70.0	105.034	110.960	112.685	118.596	119.711	113.085	109.995	107.709	107.277	104.718
72.5	81.009	85.935	86.693	93.360	92.688	88.339	86.702	83.642	84.618	81.037
75.0	61.993	66.098	67.067	71.324	71.870	67.147	68.385	66.649	65.885	62.770
77.5	50.739	51.575	53.697	54.077	57.005	54.833	54.385	53.405	52.832	51.264
80.0	40.991	42.725	43.041	44.445	44.971	43.924	45.226	42.560	42.249	40.967
82.5	30.600	32.212	32.108	33.100	34.773	32.456	33.154	31.659	31.990	29.612
85.0	18.112	21.023	21.010	22.731	23.783	20.724	21.799	19.030	19.787	17.941
87.5	7.251	8.553	10.052	11.203	11.787	8.820	9.187	8.160	7.819	6.049
90.0	0.942	0.838	1.947	1.319	2.951	1.102	0.521	0.676	0.524	0.928
92.5	0.000	0.000	0.000	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	0.000	0.000	0.000
97.5	0.000	0.000	0.000	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	0.000	0.000	0.000
102.5	0.000	0.000	0.000	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	0.000	0.000	0.000
107.5	0.000	0.000	0.000	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	0.000	0.000	0.000
112.5	0.000	0.000	0.000	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	0.000	0.000	0.000
117.5	0.000	0.000	0.000	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	0.000	0.000	0.000
122.5	0.000	0.000	0.000	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	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	1083.057	1083.057	1083.057	1083.057	1083.057	1083.057	1083.057
2.5	1082.308	1080.450	1078.804	1079.375	1078.703	1077.879	1079.095
5.0	1078.568	1075.043	1072.601	1071.459	1070.679	1070.583	1069.697
7.5	1072.213	1067.524	1063.453	1061.256	1059.269	1058.818	1058.033
10.0	1064.472	1056.067	1050.068	1048.292	1045.248	1045.594	1043.878
12.5	1052.159	1043.034	1034.915	1033.488	1028.533	1028.836	1028.655
15.0	1037.794	1025.949	1017.570	1016.713	1010.375	1011.102	1010.338
17.5	1019.551	1007.468	998.938	997.904	990.931	991.763	990.916
20.0	999.851	986.061	978.929	977.211	970.780	972.073	970.271
22.5	978.057	963.832	956.813	955.189	950.087	950.394	949.266
25.0	955.591	939.671	932.698	932.107	927.953	928.383	926.083
27.5	928.876	915.067	907.962	909.096	904.838	906.082	902.363
30.0	901.053	887.848	882.716	886.136	880.326	883.744	877.630
32.5	873.196	860.155	856.760	861.068	854.998	859.085	852.703
35.0	845.331	831.866	830.293	834.718	828.861	834.233	826.632
37.5	814.327	803.499	802.577	806.882	802.317	805.910	800.399
40.0	782.809	772.350	774.079	778.275	774.675	777.427	771.311
42.5	748.624	740.948	743.570	748.210	746.556	747.971	741.925
45.0	714.129	708.199	711.989	717.484	715.142	718.406	710.244
47.5	677.538	675.378	678.144	684.921	682.534	685.090	678.422
50.0	640.795	634.989	643.261	651.660	643.955	650.647	641.852
52.5	589.142	593.611	587.169	598.960	603.567	598.141	604.778
55.0	536.900	506.702	522.762	540.047	519.830	540.600	519.276
57.5	430.527	419.062	424.677	441.190	425.281	433.254	432.991
60.0	325.129	318.082	315.665	331.770	327.472	329.441	330.011
62.5	248.427	221.780	239.114	250.795	229.027	249.609	231.131
65.0	175.094	172.930	171.293	175.750	176.257	177.179	179.977

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CANDELA TABULATION - (Cont.)

67.5	137.732	128.011	133.119	137.122	130.108	138.568	132.922
70.0	104.134	100.660	100.603	103.911	104.367	105.000	105.034
72.5	81.363	77.176	77.773	81.130	80.880	81.190	81.009
75.0	63.535	58.585	59.316	62.865	62.759	64.125	61.993
77.5	49.647	47.061	46.970	50.169	50.663	50.948	50.739
80.0	40.314	37.380	37.584	39.580	40.449	40.778	40.991
82.5	29.178	27.370	27.280	29.901	29.346	29.805	30.600
85.0	17.279	15.214	15.726	18.895	17.801	19.040	18.112
87.5	5.973	4.945	4.895	6.601	7.147	7.503	7.251
90.0	0.411	0.806	0.411	0.469	0.951	0.566	0.942
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	392.78	N.A.	14.70
0-30	830.16	N.A.	31.20
0-40	1358.91	N.A.	51.00
0-60	2373.9	N.A.	89.10
0-80	2642.13	N.A.	99.20
0-90	2663.75	N.A.	100.00
10-90	2561.51	N.A.	96.20
20-40	966.14	N.A.	36.30
20-50	1520.28	N.A.	57.10
40-70	1210.56	N.A.	45.40
60-80	268.23	N.A.	10.10
70-80	72.66	N.A.	2.70
80-90	21.62	N.A.	0.80
90-110	0.13	N.A.	0.00
90-120	0.13	N.A.	0.00
90-130	0.13	N.A.	0.00
90-150	0.13	N.A.	0.00
90-180	0.13	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2663.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	102.24
10-20	290.53
20-30	437.39
30-40	528.75
40-50	554.14
50-60	460.84
60-70	195.58
70-80	72.66
80-90	21.62
90-100	0.13
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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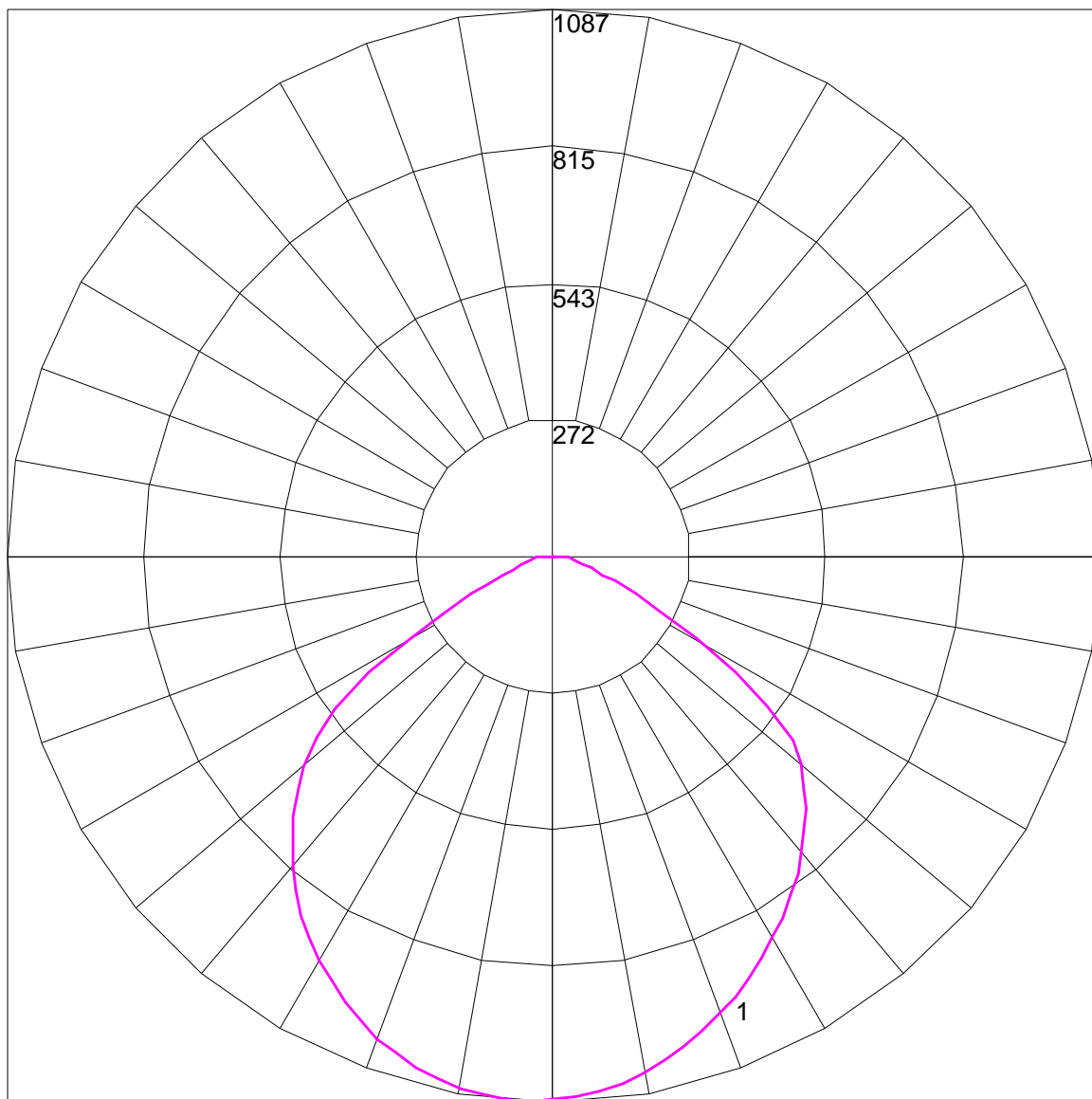
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	28

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00673 ~ HD1606GV-37L35K-EX-MWI.IES

POLAR GRAPH



Maximum Candela = 1086.577 Located At Horizontal Angle = 180, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)