

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00673 ~ HD1606GV-15L35K-EX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00673_M-15L
[TESTLAB] Spectrum Photometric Lab VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 4/20/2018
[UPDATE] 5/25/2018
[LUMCAT] HD1606GV-15L-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	1040
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	10
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00673 ~ HD1606GV-15L35K-EX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3034	3043	3103
55	2735	2826	2918
65	1287	1393	1504
75	724	783	839
85	628	728	824

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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	422.695	422.695	422.695	422.695	422.695	422.695	422.695	422.695	422.695	422.695
2.5	421.149	421.133	421.310	421.792	423.141	423.363	423.861	423.639	424.069	423.095
5.0	417.481	418.814	418.953	420.386	421.936	422.335	423.899	423.604	423.710	422.335
7.5	412.929	414.773	415.310	417.840	419.717	420.360	422.271	421.962	422.402	420.473
10.0	407.405	409.196	410.513	413.500	415.859	417.186	419.580	419.514	419.666	417.259
12.5	401.463	402.823	404.278	408.136	411.274	413.365	415.873	415.562	415.917	413.044
15.0	394.315	395.830	397.244	401.390	405.267	407.865	411.595	411.020	410.838	407.551
17.5	386.734	388.141	389.339	394.148	398.712	401.597	405.145	405.538	405.152	401.233
20.0	378.677	379.986	381.170	386.330	390.899	393.841	397.658	399.113	398.777	393.993
22.5	370.480	371.397	372.756	377.977	382.685	385.504	389.944	391.398	391.361	386.244
25.0	361.431	362.552	363.892	369.071	373.586	376.670	382.137	382.820	382.912	377.110
27.5	352.174	353.783	354.659	360.043	364.259	367.672	372.449	373.195	373.356	367.303
30.0	342.521	345.053	344.974	350.906	354.216	357.294	362.109	362.850	362.837	356.778
32.5	332.793	335.384	334.964	340.939	344.022	346.546	350.683	351.748	351.727	345.960
35.0	322.618	325.313	324.748	330.331	332.768	334.732	338.948	339.765	340.172	333.902
37.5	312.380	314.712	314.405	318.971	321.343	322.687	325.998	326.983	327.430	321.424
40.0	301.027	303.916	302.956	307.099	309.168	309.418	312.767	313.493	313.914	307.980
42.5	289.558	291.451	290.915	294.805	296.905	295.941	298.895	299.433	299.588	294.258
45.0	277.194	278.479	277.998	282.265	283.503	281.835	284.904	284.567	284.803	279.277
47.5	264.774	265.633	264.678	268.918	270.012	267.653	269.821	269.144	269.210	264.007
50.0	250.502	252.818	250.437	255.163	255.130	252.372	254.591	252.108	253.226	247.438
52.5	236.033	234.432	235.838	238.800	240.195	237.003	234.300	234.100	231.507	230.639
55.0	202.663	214.930	209.426	221.304	216.244	207.272	213.541	202.610	207.377	198.041
57.5	168.988	176.870	179.081	188.420	191.694	176.912	172.909	164.085	169.588	163.273
60.0	128.797	136.030	140.703	149.947	148.879	136.387	131.198	127.303	127.017	125.851
62.5	90.206	103.621	100.149	114.826	107.271	96.299	100.723	91.289	96.596	88.185
65.0	70.241	72.085	76.076	80.726	82.090	74.787	71.054	69.491	69.656	69.000
67.5	51.877	57.027	55.443	61.869	59.048	54.692	56.397	52.894	54.545	51.142
70.0	40.993	43.306	43.979	46.286	46.721	44.135	42.929	42.037	41.868	40.869
72.5	31.616	33.539	33.835	36.436	36.174	34.477	33.838	32.644	33.025	31.627
75.0	24.195	25.797	26.175	27.836	28.049	26.206	26.689	26.012	25.714	24.498
77.5	19.802	20.129	20.957	21.105	22.248	21.400	21.225	20.843	20.619	20.007
80.0	15.998	16.675	16.798	17.346	17.551	17.143	17.651	16.610	16.489	15.989
82.5	11.943	12.572	12.531	12.918	13.571	12.667	12.939	12.356	12.485	11.557
85.0	7.069	8.205	8.200	8.871	9.282	8.088	8.508	7.427	7.722	7.002
87.5	2.830	3.338	3.923	4.372	4.600	3.442	3.585	3.185	3.051	2.361
90.0	0.368	0.327	0.760	0.515	1.152	0.430	0.204	0.264	0.205	0.362
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. 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	422.695	422.695	422.695	422.695	422.695	422.695	422.695
2.5	422.403	421.678	421.035	421.258	420.996	420.674	421.149
5.0	420.943	419.568	418.614	418.169	417.864	417.827	417.481
7.5	418.463	416.633	415.044	414.187	413.411	413.235	412.929
10.0	415.442	412.162	409.820	409.127	407.939	408.074	407.405
12.5	410.636	407.075	403.906	403.350	401.416	401.534	401.463
15.0	405.030	400.407	397.137	396.802	394.329	394.613	394.315
17.5	397.910	393.194	389.865	389.462	386.740	387.065	386.734
20.0	390.221	384.840	382.056	381.386	378.876	379.380	378.677
22.5	381.716	376.164	373.425	372.791	370.800	370.920	370.480
25.0	372.948	366.735	364.013	363.782	362.161	362.329	361.431
27.5	362.522	357.132	354.359	354.802	353.140	353.626	352.174
30.0	351.663	346.509	344.506	345.841	343.573	344.907	342.521
32.5	340.791	335.701	334.376	336.058	333.689	335.284	332.793
35.0	329.916	324.660	324.046	325.774	323.488	325.584	322.618
37.5	317.816	313.589	313.229	314.910	313.128	314.530	312.380
40.0	305.515	301.433	302.107	303.745	302.340	303.414	301.027
42.5	292.173	289.177	290.200	292.011	291.366	291.918	289.558
45.0	278.710	276.396	277.875	280.019	279.105	280.379	277.194
47.5	264.429	263.586	264.666	267.311	266.379	267.377	264.774
50.0	250.089	247.823	251.052	254.330	251.323	253.934	250.502
52.5	229.930	231.674	229.160	233.762	235.560	233.442	236.033
55.0	209.541	197.756	204.023	210.769	202.879	210.985	202.663
57.5	168.026	163.551	165.743	172.188	165.979	169.090	168.988
60.0	126.891	124.141	123.198	129.483	127.806	128.574	128.797
62.5	96.956	86.556	93.321	97.880	89.384	97.417	90.206
65.0	68.336	67.491	66.852	68.592	68.789	69.149	70.241

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CANDELA TABULATION - (Cont.)

67.5	53.754	49.960	51.954	53.516	50.779	54.080	51.877
70.0	40.641	39.285	39.263	40.554	40.732	40.979	40.993
72.5	31.754	30.120	30.353	31.664	31.566	31.687	31.616
75.0	24.796	22.864	23.150	24.535	24.494	25.027	24.195
77.5	19.376	18.367	18.331	19.580	19.773	19.884	19.802
80.0	15.734	14.589	14.668	15.447	15.786	15.915	15.998
82.5	11.388	10.682	10.647	11.670	11.453	11.632	11.943
85.0	6.744	5.938	6.138	7.374	6.948	7.431	7.069
87.5	2.331	1.930	1.910	2.576	2.789	2.928	2.830
90.0	0.161	0.315	0.160	0.183	0.371	0.221	0.368
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	153.29	N.A.	14.70
0-30	324.00	N.A.	31.20
0-40	530.36	N.A.	51.00
0-60	926.48	N.A.	89.10
0-80	1031.17	N.A.	99.20
0-90	1039.61	N.A.	100.00
10-90	999.71	N.A.	96.20
20-40	377.06	N.A.	36.30
20-50	593.33	N.A.	57.10
40-70	472.46	N.A.	45.40
60-80	104.69	N.A.	10.10
70-80	28.36	N.A.	2.70
80-90	8.44	N.A.	0.80
90-110	0.05	N.A.	0.00
90-120	0.05	N.A.	0.00
90-130	0.05	N.A.	0.00
90-150	0.05	N.A.	0.00
90-180	0.05	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1039.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	39.90
10-20	113.39
20-30	170.70
30-40	206.36
40-50	216.27
50-60	179.86
60-70	76.33
70-80	28.36
80-90	8.44
90-100	0.05
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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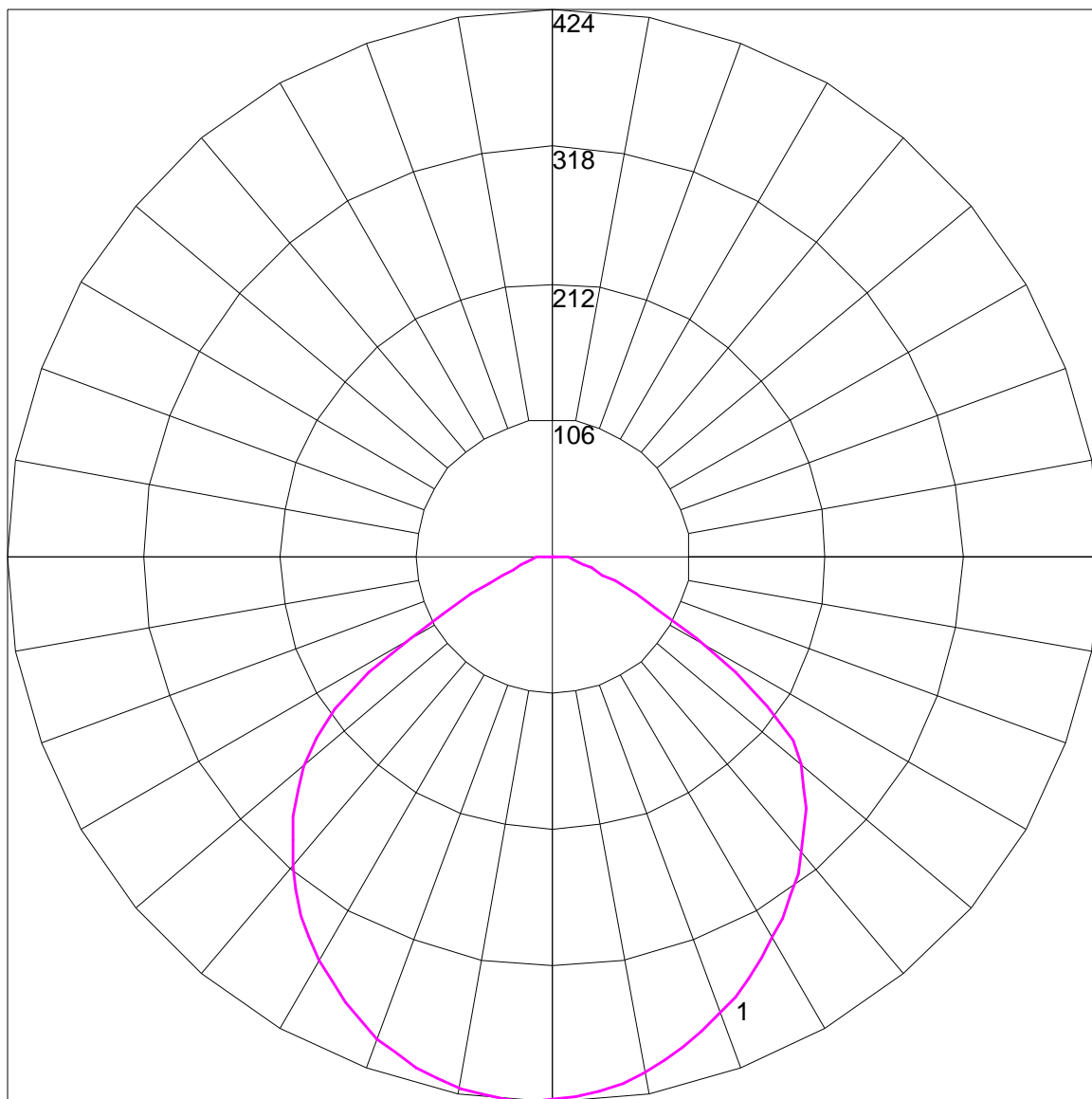
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	74
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

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POLAR GRAPH



Maximum Candela = 424.069 Located At Horizontal Angle = 180, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)