

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00673 ~ HD1606GV-27L35K-EX-MWI.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00673_M-27L
 [TESTLAB] Spectrum Photometric Lab VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 4/20/2018
 [UPDATE] 5/25/2018
 [LUMCAT] HD1606GV-27L-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
 [_CRI]85+

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1816
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	18
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-27L35K-EX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5302	5317	5422
55	4778	4938	5099
65	2248	2434	2627
75	1264	1368	1466
85	1097	1272	1440

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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	738.520	738.520	738.520	738.520	738.520	738.520	738.520	738.520	738.520	738.520
2.5	735.819	735.791	736.101	736.942	739.299	739.688	740.558	740.170	740.921	739.219
5.0	729.411	731.739	731.981	734.487	737.194	737.891	740.624	740.109	740.294	737.891
7.5	721.457	724.680	725.616	730.038	733.317	734.441	737.779	737.240	738.008	734.638
10.0	711.805	714.935	717.235	722.454	726.576	728.895	733.078	732.962	733.228	729.023
12.5	701.425	703.801	706.343	713.083	718.565	722.219	726.602	726.058	726.678	721.658
15.0	688.935	691.582	694.053	701.296	708.070	712.609	719.127	718.122	717.804	712.061
17.5	675.691	678.149	680.241	688.644	696.618	701.658	707.858	708.544	707.869	701.022
20.0	661.613	663.900	665.969	674.984	682.966	688.106	694.777	697.318	696.731	688.373
22.5	647.291	648.894	651.268	660.390	668.616	673.541	681.298	683.838	683.774	674.835
25.0	631.482	633.440	635.782	644.829	652.717	658.106	667.659	668.852	669.012	658.874
27.5	615.308	618.119	619.650	629.056	636.422	642.386	650.731	652.035	652.316	641.741
30.0	598.443	602.866	602.728	613.093	618.876	624.253	632.666	633.960	633.939	623.352
32.5	581.446	585.972	585.239	595.678	601.065	605.475	612.702	614.563	614.526	604.452
35.0	563.668	568.377	567.390	577.144	581.402	584.834	592.201	593.627	594.338	583.384
37.5	545.780	549.856	549.319	557.297	561.441	563.790	569.574	571.296	572.076	561.582
40.0	525.946	530.993	529.316	536.554	540.169	540.606	546.458	547.726	548.461	538.093
42.5	505.908	509.214	508.278	515.075	518.743	517.059	522.220	523.160	523.432	514.118
45.0	484.305	486.550	485.711	493.164	495.328	492.414	497.776	497.187	497.600	487.945
47.5	462.606	464.106	462.438	469.845	471.758	467.635	471.422	470.240	470.355	461.266
50.0	437.669	441.715	437.555	445.813	445.755	440.938	444.813	440.475	442.429	432.317
52.5	412.389	409.592	412.049	417.225	419.662	414.085	409.362	409.012	404.482	402.966
55.0	354.087	375.518	365.903	386.655	377.814	362.140	373.093	353.995	362.323	346.011
57.5	295.250	309.022	312.886	329.202	334.922	309.096	302.102	286.685	296.299	285.265
60.0	225.030	237.667	245.832	261.983	260.117	238.292	229.225	222.419	221.920	219.882
62.5	157.605	181.044	174.976	200.621	187.421	168.251	175.980	159.497	168.770	154.073
65.0	122.724	125.944	132.918	141.043	143.426	130.666	124.144	121.412	121.701	120.555
67.5	90.638	99.636	96.867	108.095	103.166	95.557	98.535	92.415	95.300	89.353
70.0	71.621	75.662	76.839	80.869	81.629	77.111	75.004	73.445	73.150	71.406
72.5	55.239	58.598	59.115	63.661	63.202	60.237	59.120	57.034	57.700	55.258
75.0	42.272	45.071	45.732	48.634	49.007	45.787	46.631	45.447	44.926	42.802
77.5	34.598	35.168	36.615	36.874	38.871	37.390	37.084	36.416	36.025	34.956
80.0	27.951	29.133	29.349	30.307	30.665	29.951	30.839	29.021	28.809	27.935
82.5	20.866	21.965	21.894	22.570	23.711	22.131	22.607	21.588	21.813	20.192
85.0	12.350	14.335	14.326	15.500	16.217	14.131	14.864	12.976	13.492	12.234
87.5	4.944	5.832	6.854	7.639	8.037	6.014	6.264	5.564	5.331	4.124
90.0	0.643	0.571	1.328	0.900	2.012	0.751	0.356	0.461	0.357	0.633
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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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	738.520	738.520	738.520	738.520	738.520	738.520	738.520
2.5	738.010	736.743	735.620	736.010	735.551	734.990	735.819
5.0	735.460	733.056	731.390	730.612	730.080	730.014	729.411
7.5	731.126	727.929	725.152	723.655	722.299	721.992	721.457
10.0	725.847	720.116	716.026	714.815	712.739	712.975	711.805
12.5	717.451	711.230	705.693	704.720	701.341	701.548	701.425
15.0	707.657	699.580	693.866	693.281	688.960	689.455	688.935
17.5	695.217	686.977	681.161	680.456	675.701	676.268	675.691
20.0	681.783	672.381	667.517	666.345	661.960	662.842	661.613
22.5	666.923	657.223	652.436	651.329	647.850	648.060	647.291
25.0	651.603	640.748	635.993	635.590	632.757	633.051	631.482
27.5	633.387	623.970	619.125	619.899	616.996	617.844	615.308
30.0	614.415	605.410	601.911	604.243	600.281	602.612	598.443
32.5	595.419	586.527	584.212	587.150	583.011	585.797	581.446
35.0	576.419	567.237	566.164	569.182	565.188	568.851	563.668
37.5	555.278	547.894	547.265	550.201	547.088	549.538	545.780
40.0	533.786	526.654	527.833	530.694	528.239	530.116	525.946
42.5	510.476	505.241	507.029	510.193	509.066	510.030	505.908
45.0	486.954	482.910	485.495	489.241	487.645	489.870	484.305
47.5	462.003	460.530	462.417	467.037	465.409	467.153	462.606
50.0	436.948	432.989	438.630	444.357	439.104	443.667	437.669
52.5	401.727	404.775	400.382	408.422	411.563	407.863	412.389
55.0	366.104	345.513	356.464	368.250	354.464	368.627	354.087
57.5	293.570	285.752	289.581	300.841	289.993	295.429	295.250
60.0	221.701	216.895	215.247	226.229	223.298	224.641	225.030
62.5	169.399	151.228	163.048	171.013	156.170	170.204	157.605
65.0	119.394	117.918	116.802	119.841	120.187	120.816	122.724

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CANDELA TABULATION - (Cont.)

67.5	93.918	87.289	90.772	93.501	88.719	94.488	90.638
70.0	71.008	68.638	68.600	70.855	71.166	71.598	71.621
72.5	55.480	52.625	53.032	55.322	55.151	55.362	55.239
75.0	43.323	39.948	40.447	42.867	42.795	43.726	42.272
77.5	33.854	32.090	32.028	34.210	34.546	34.741	34.598
80.0	27.490	25.489	25.628	26.989	27.581	27.806	27.951
82.5	19.896	18.664	18.602	20.389	20.011	20.323	20.866
85.0	11.782	10.374	10.724	12.884	12.138	12.983	12.350
87.5	4.073	3.372	3.338	4.501	4.874	5.116	4.944
90.0	0.281	0.550	0.280	0.320	0.649	0.386	0.643
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	267.83	N.A.	14.70
0-30	566.08	N.A.	31.20
0-40	926.62	N.A.	51.00
0-60	1618.73	N.A.	89.10
0-80	1801.63	N.A.	99.20
0-90	1816.37	N.A.	100.00
10-90	1746.66	N.A.	96.20
20-40	658.79	N.A.	36.30
20-50	1036.66	N.A.	57.10
40-70	825.46	N.A.	45.40
60-80	182.90	N.A.	10.10
70-80	49.54	N.A.	2.70
80-90	14.74	N.A.	0.80
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	1816.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	69.72
10-20	198.11
20-30	298.25
30-40	360.55
40-50	377.86
50-60	314.24
60-70	133.36
70-80	49.54
80-90	14.74
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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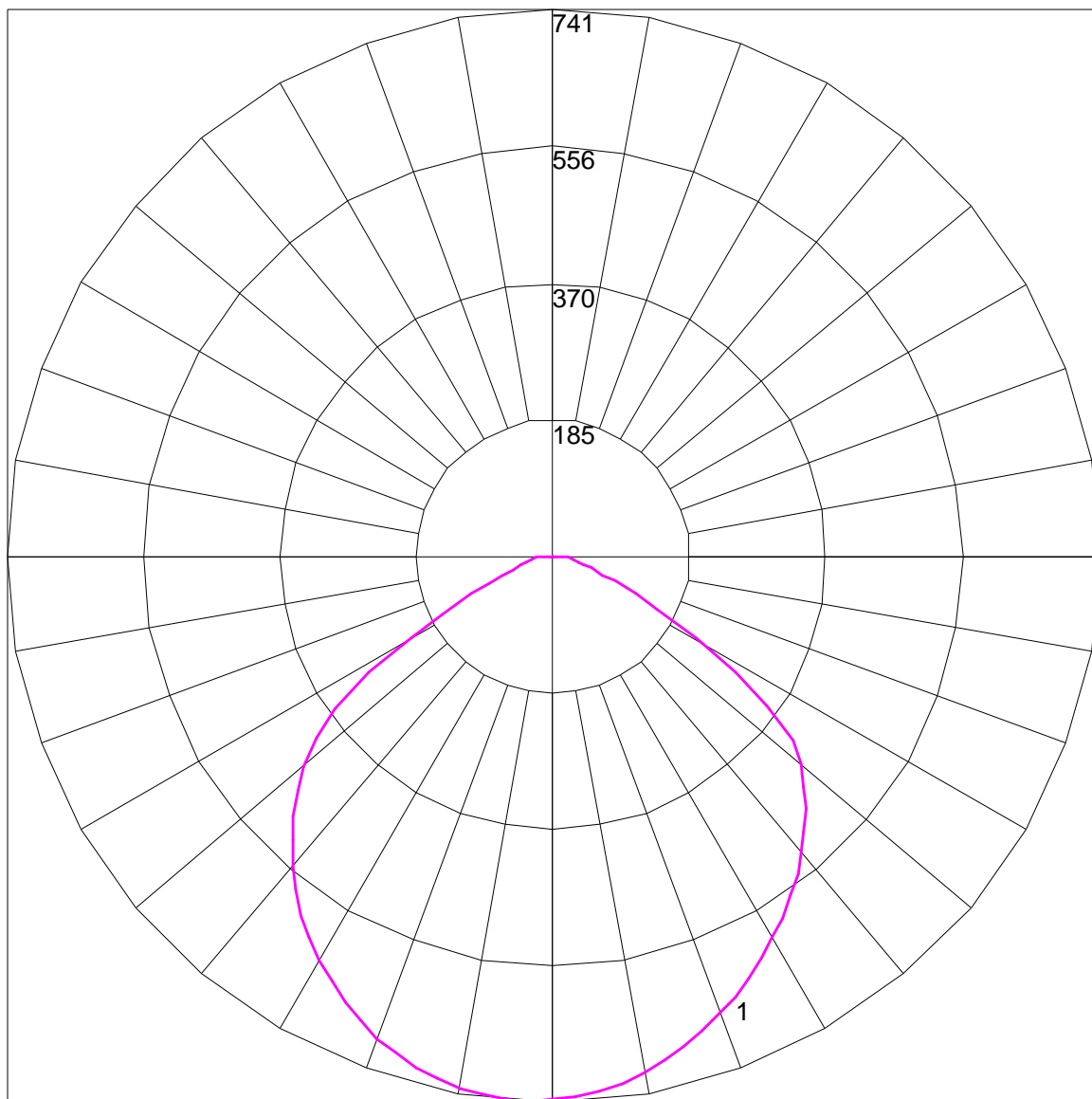
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	106	103	99	108	104	101	98	100	97	95	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	59	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	47	41	66	54	46	41	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 = 740.921 Located At Horizontal Angle = 180, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)