

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00673 ~ HD1606GV-55L35K-EX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00673
[TESTLAB] Spectrum Photometric Lab VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 4/20/2018
[UPDATE] 5/25/2018
[LUMCAT] HD1606GV-55L-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	3923
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	39
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-55L35K-EX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11450	11484	11711
55	10321	10665	11012
65	4855	5258	5674
75	2731	2954	3166
85	2369	2748	3111

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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	1595.076	1595.076	1595.076	1595.076	1595.076	1595.076	1595.076	1595.076	1595.076	1595.076
2.5	1589.241	1589.182	1589.851	1591.668	1596.758	1597.598	1599.477	1598.639	1600.261	1596.585
5.0	1575.401	1580.430	1580.953	1586.364	1592.212	1593.717	1599.620	1598.507	1598.907	1593.717
7.5	1558.223	1565.183	1567.206	1576.756	1583.837	1586.266	1593.476	1592.310	1593.970	1586.692
10.0	1537.376	1544.136	1549.104	1560.376	1569.278	1574.287	1583.322	1583.072	1583.646	1574.564
12.5	1514.956	1520.088	1525.579	1540.136	1551.977	1559.868	1569.334	1568.159	1569.499	1558.657
15.0	1487.980	1493.697	1499.035	1514.678	1529.308	1539.112	1553.190	1551.020	1550.333	1537.929
17.5	1459.375	1464.684	1469.202	1487.352	1504.574	1515.460	1528.851	1530.332	1528.874	1514.086
20.0	1428.970	1433.909	1438.379	1457.849	1475.089	1486.191	1500.598	1506.087	1504.819	1486.766
22.5	1398.036	1401.500	1406.627	1426.329	1444.094	1454.732	1471.485	1476.972	1476.834	1457.526
25.0	1363.892	1368.120	1373.179	1392.720	1409.757	1421.396	1442.027	1444.604	1444.951	1423.055
27.5	1328.958	1335.030	1338.336	1358.652	1374.562	1387.443	1405.467	1408.284	1408.889	1386.050
30.0	1292.533	1302.087	1301.789	1324.174	1336.665	1348.279	1366.450	1369.244	1369.198	1346.333
32.5	1255.822	1265.599	1264.015	1286.561	1298.196	1307.722	1323.331	1327.350	1327.270	1305.511
35.0	1217.426	1227.596	1225.465	1246.531	1255.727	1263.140	1279.051	1282.131	1283.667	1260.008
37.5	1178.791	1187.594	1186.435	1203.666	1212.615	1217.688	1230.182	1233.900	1235.586	1212.920
40.0	1135.952	1146.853	1143.232	1158.865	1166.672	1167.615	1180.254	1182.993	1184.581	1162.188
42.5	1092.673	1099.815	1097.792	1112.473	1120.395	1116.759	1127.904	1129.935	1130.522	1110.406
45.0	1046.015	1050.863	1049.051	1065.150	1069.822	1063.529	1075.111	1073.838	1074.729	1053.876
47.5	999.148	1002.388	998.786	1014.785	1018.915	1010.010	1018.191	1015.637	1015.886	996.254
50.0	945.290	954.029	945.044	962.878	962.753	952.349	960.720	951.350	955.571	933.729
52.5	890.689	884.649	889.955	901.133	906.398	894.351	884.151	883.395	873.612	870.336
55.0	764.766	811.055	790.287	835.108	816.014	782.159	805.817	764.567	782.554	747.325
57.5	637.689	667.435	675.779	711.020	723.374	667.594	652.488	619.190	639.954	616.124
60.0	486.025	513.319	530.955	565.838	561.808	514.669	495.086	480.387	479.308	474.908
62.5	340.399	391.023	377.919	433.306	404.796	363.394	380.086	344.486	364.513	332.772
65.0	265.062	272.017	287.080	304.628	309.775	282.215	268.129	262.230	262.853	260.377
67.5	195.762	215.196	209.217	233.467	222.821	206.386	212.819	199.601	205.831	192.987
70.0	154.689	163.417	165.958	174.663	176.305	166.546	161.996	158.629	157.992	154.224
72.5	119.307	126.561	127.678	137.496	136.506	130.102	127.690	123.184	124.621	119.347
75.0	91.301	97.346	98.773	105.042	105.847	98.891	100.714	98.158	97.033	92.445
77.5	74.726	75.957	79.082	79.642	83.954	80.755	80.096	78.652	77.808	75.499
80.0	60.369	62.923	63.389	65.457	66.231	64.689	66.607	62.680	62.223	60.334
82.5	45.067	47.440	47.287	48.748	51.212	47.800	48.828	46.626	47.113	43.611
85.0	26.674	30.962	30.942	33.477	35.026	30.521	32.104	28.026	29.141	26.423
87.5	10.679	12.597	14.804	16.499	17.359	12.989	13.530	12.018	11.515	8.908
90.0	1.388	1.234	2.868	1.943	4.346	1.623	0.768	0.995	0.772	1.367
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	1595.076	1595.076	1595.076	1595.076	1595.076	1595.076	1595.076
2.5	1593.974	1591.237	1588.813	1589.654	1588.664	1587.451	1589.241
5.0	1588.466	1583.274	1579.677	1577.995	1576.847	1576.705	1575.401
7.5	1579.106	1572.200	1566.204	1562.969	1560.042	1559.378	1558.223
10.0	1567.705	1555.327	1546.492	1543.876	1539.393	1539.903	1537.376
12.5	1549.571	1536.133	1524.175	1522.074	1514.776	1515.223	1514.956
15.0	1528.416	1510.971	1498.631	1497.368	1488.034	1489.104	1487.980
17.5	1501.548	1483.752	1471.190	1469.667	1459.397	1460.623	1459.375
20.0	1472.534	1452.226	1441.721	1439.191	1429.720	1431.624	1428.970
22.5	1440.438	1419.488	1409.150	1406.759	1399.244	1399.697	1398.036
25.0	1407.350	1383.904	1373.634	1372.764	1366.646	1367.280	1363.892
27.5	1368.006	1347.668	1337.204	1338.875	1332.604	1334.436	1328.958
30.0	1327.030	1307.581	1300.024	1305.060	1296.503	1301.537	1292.533
32.5	1286.003	1266.796	1261.796	1268.142	1259.202	1265.221	1255.822
35.0	1244.965	1225.134	1222.817	1229.335	1220.709	1228.620	1217.426
37.5	1199.304	1183.356	1181.998	1188.339	1181.616	1186.907	1178.791
40.0	1152.885	1137.482	1140.028	1146.208	1140.906	1144.959	1135.952
42.5	1102.539	1091.234	1095.096	1101.929	1099.494	1101.577	1092.673
45.0	1051.737	1043.003	1048.585	1056.677	1053.228	1058.035	1046.015
47.5	997.847	994.666	998.740	1008.720	1005.204	1008.969	999.148
50.0	943.733	935.182	947.365	959.735	948.388	958.243	945.290
52.5	867.661	874.243	864.755	882.121	888.905	880.914	890.689
55.0	790.722	746.248	769.900	795.356	765.581	796.171	764.766
57.5	634.060	617.175	625.445	649.765	626.335	638.076	637.689
60.0	478.835	468.456	464.897	488.616	482.285	485.185	486.025
62.5	365.872	326.627	352.156	369.359	337.300	367.612	340.399
65.0	257.871	254.683	252.272	258.836	259.583	260.941	265.062

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CANDELA TABULATION - (Cont.)

67.5	202.846	188.529	196.052	201.947	191.617	204.077	195.762
70.0	153.364	148.247	148.164	153.035	153.707	154.639	154.689
72.5	119.827	113.661	114.540	119.485	119.116	119.573	119.307
75.0	93.571	86.281	87.358	92.585	92.429	94.440	91.301
77.5	73.118	69.309	69.175	73.887	74.614	75.034	74.726
80.0	59.373	55.051	55.352	58.291	59.571	60.056	60.369
82.5	42.972	40.310	40.177	44.037	43.220	43.895	45.067
85.0	25.448	22.406	23.161	27.827	26.217	28.041	26.674
87.5	8.797	7.283	7.209	9.722	10.526	11.050	10.679
90.0	0.606	1.187	0.605	0.691	1.401	0.833	1.388
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	578.46	N.A.	14.70
0-30	1222.63	N.A.	31.20
0-40	2001.34	N.A.	51.00
0-60	3496.17	N.A.	89.10
0-80	3891.21	N.A.	99.20
0-90	3923.06	N.A.	100.00
10-90	3772.48	N.A.	96.20
20-40	1422.88	N.A.	36.30
20-50	2239.00	N.A.	57.10
40-70	1782.86	N.A.	45.40
60-80	395.04	N.A.	10.10
70-80	107.01	N.A.	2.70
80-90	31.84	N.A.	0.80
90-110	0.19	N.A.	0.00
90-120	0.19	N.A.	0.00
90-130	0.19	N.A.	0.00
90-150	0.19	N.A.	0.00
90-180	0.19	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3923.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	150.58
10-20	427.89
20-30	644.16
30-40	778.72
40-50	816.12
50-60	678.71
60-70	288.03
70-80	107.01
80-90	31.84
90-100	0.19
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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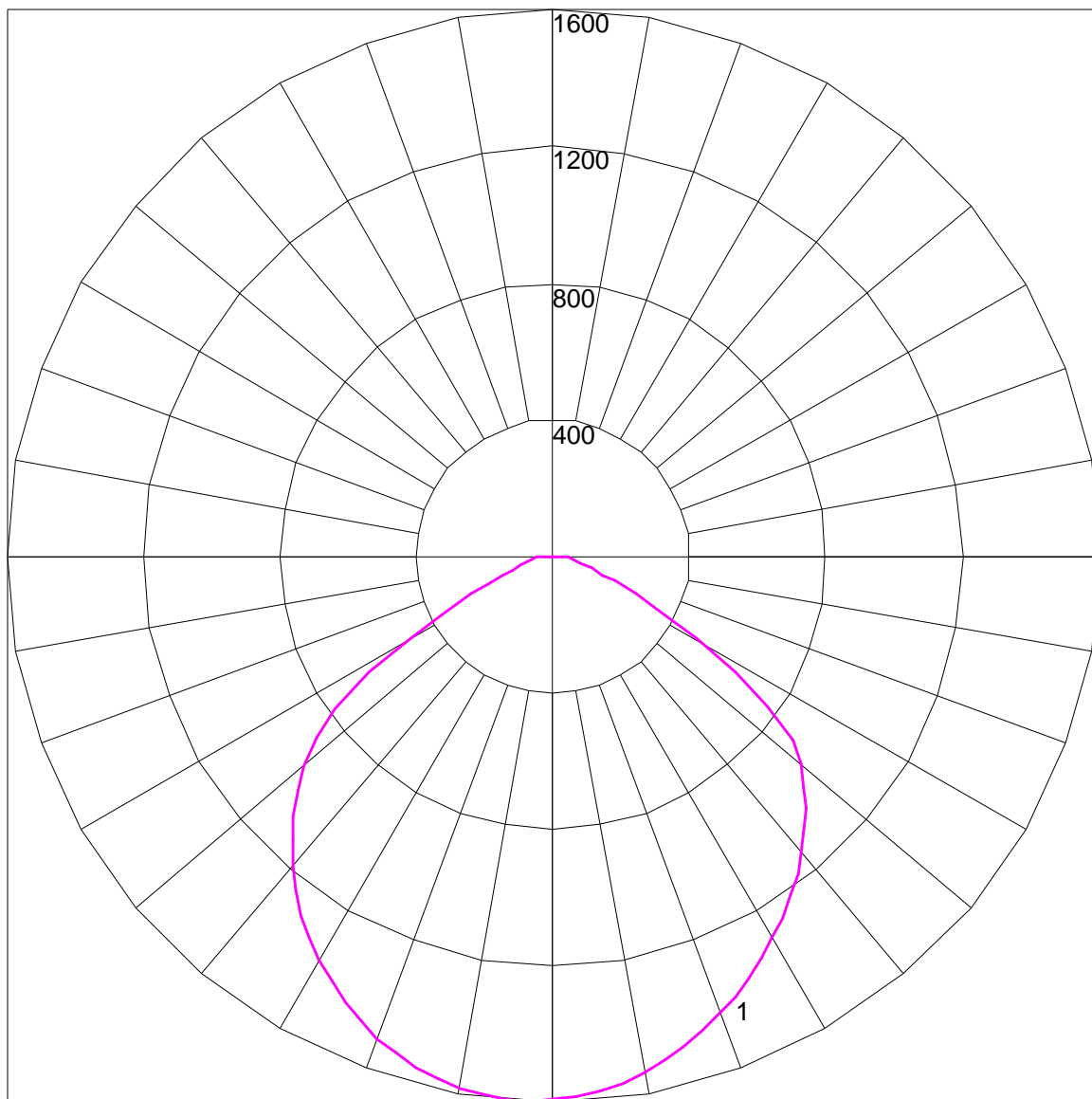
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	47	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-55L35K-EX-MWI.IES

POLAR GRAPH



Maximum Candela = 1600.261 Located At Horizontal Angle = 180, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)