

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00674 ~ HD24GV-15L35K-EX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00674_M-15L

[TESTLAB] Spectrum Photometric Lab VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 4/20/2018

[UPDATE] 5/3/2018

[LUMCAT] HD24GV-15L-35K-EX-MWI-xx

[LUMINAIRE] Nom. 24" diam x 11.9" H, Half Dome luminaire

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

[OTHER] Reflector: Matte White interior finish

[OTHER] Nom. 99 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	1075
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Circular
Luminous Length (0-180)	2.00 ft (Diameter)
Luminous Width (90-270)	2.00 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	1546	1554	1559
55	813	866	912
65	403	415	420
75	398	413	422
85	250	286	325

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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	513.102	513.102	513.102	513.102	513.102	513.102	513.102	513.102	513.102	513.102
2.5	510.910	511.330	509.157	508.374	507.751	507.874	509.770	510.768	512.101	512.627
5.0	506.963	506.159	503.623	503.096	501.671	500.998	503.775	505.637	509.318	509.068
7.5	499.619	498.395	495.483	494.773	493.608	492.393	495.288	497.147	501.160	502.539
10.0	491.780	489.426	486.288	485.898	484.554	482.251	485.569	487.633	492.653	494.268
12.5	482.104	479.369	475.859	475.345	474.893	471.317	474.199	476.252	481.588	484.018
15.0	471.757	468.919	464.874	464.602	463.676	459.392	462.192	464.334	470.432	472.754
17.5	459.514	457.309	453.357	452.855	451.693	447.052	449.878	451.608	457.657	460.545
20.0	447.222	445.380	441.385	441.049	439.740	434.992	437.474	438.950	444.876	448.321
22.5	434.820	433.216	429.055	429.233	427.797	423.021	424.774	426.374	432.028	436.085
25.0	422.166	421.005	416.920	417.402	416.273	410.769	412.010	413.981	419.242	423.218
27.5	409.067	408.075	404.907	405.280	404.872	398.451	399.982	401.768	406.824	409.962
30.0	396.255	395.053	393.147	393.291	392.835	387.235	388.063	389.687	394.451	397.105
32.5	383.857	383.270	381.515	382.561	380.658	376.204	377.291	377.713	382.271	384.446
35.0	371.954	371.577	370.462	371.784	369.991	365.121	366.616	366.667	370.268	372.516
37.5	360.628	360.618	359.645	360.732	359.542	354.032	355.376	356.230	358.822	360.873
40.0	348.588	349.589	348.052	349.433	348.298	342.204	344.072	344.115	346.893	347.870
42.5	335.871	336.517	336.219	337.156	336.983	330.317	330.810	331.122	333.800	334.462
45.0	319.364	322.658	320.921	323.181	322.148	314.559	316.871	315.407	318.914	318.015
47.5	299.875	300.142	304.821	304.023	306.467	296.567	293.814	298.538	300.532	300.881
50.0	252.453	271.114	254.748	270.839	261.289	243.669	265.094	250.901	263.886	248.572
52.5	187.356	200.700	199.200	204.835	214.925	190.508	195.518	193.258	198.887	190.929
55.0	136.208	136.788	145.157	146.869	152.858	135.201	132.064	141.230	143.332	138.197
57.5	92.082	100.840	91.255	103.693	95.936	85.990	97.581	90.542	99.579	85.887
60.0	69.834	70.714	73.179	72.671	75.709	69.147	68.401	70.324	70.978	69.284
62.5	56.490	59.625	56.756	60.055	57.956	54.680	58.016	55.362	58.142	54.120
65.0	49.806	50.416	51.206	50.981	51.805	49.089	49.165	49.388	49.883	49.132
67.5	45.157	45.650	45.814	46.107	46.149	43.882	44.190	44.354	45.395	44.186
70.0	40.303	41.027	41.550	41.374	41.828	39.541	39.356	40.024	40.759	39.529
72.5	35.355	36.575	36.789	36.736	37.079	34.919	34.700	35.420	36.055	34.664
75.0	30.080	30.985	31.223	31.632	31.932	30.067	29.652	30.154	30.719	29.469
77.5	24.577	25.221	25.430	26.042	26.065	24.211	24.342	24.451	25.225	23.831
80.0	18.759	19.785	19.489	19.868	20.287	18.138	18.674	18.698	19.535	18.107
82.5	12.501	13.089	13.423	14.029	14.503	11.873	12.630	12.915	13.653	12.269
85.0	6.376	6.809	7.277	7.980	8.266	5.806	6.277	6.542	6.863	6.172
87.5	1.413	1.417	1.763	2.282	2.617	1.273	1.410	1.421	1.880	1.279
90.0	0.204	0.157	0.352	0.087	0.245	0.167	0.179	0.274	0.151	0.214
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
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	513.102	513.102	513.102	513.102	513.102	513.102	513.102
2.5	512.662	511.679	511.725	513.600	513.490	513.011	510.910
5.0	510.208	509.783	509.136	511.783	511.188	509.844	506.963
7.5	504.514	504.489	504.107	507.764	505.826	503.524	499.619
10.0	497.365	497.986	496.914	501.463	498.954	496.400	491.780
12.5	487.975	488.726	488.406	493.264	490.463	487.118	482.104
15.0	477.810	478.843	478.942	483.472	480.853	477.454	471.757
17.5	466.292	467.823	468.560	473.005	470.241	466.073	459.514
20.0	454.410	456.065	457.643	462.075	458.637	454.499	447.222
22.5	441.945	443.215	445.487	450.250	446.317	442.152	434.820
25.0	429.369	430.328	432.740	437.927	433.530	429.764	422.166
27.5	416.155	417.398	419.466	424.864	420.473	416.833	409.067
30.0	402.867	404.253	405.995	411.474	407.592	403.923	396.255
32.5	390.072	390.898	393.019	398.338	394.794	391.386	383.857
35.0	377.309	377.704	380.179	385.288	381.573	378.871	371.954
37.5	364.375	364.641	366.621	371.986	368.195	366.554	360.628
40.0	351.339	350.229	352.916	358.618	354.847	353.901	348.588
42.5	336.141	334.942	336.848	343.072	341.505	339.363	335.871
45.0	320.027	316.290	320.462	327.129	323.526	323.304	319.364
47.5	294.688	295.842	288.337	301.526	304.596	301.044	299.875
50.0	262.808	243.680	255.099	274.788	254.525	267.196	252.453
52.5	191.750	178.238	185.171	206.225	200.308	198.516	187.356
55.0	128.036	129.494	115.896	135.182	145.366	138.912	136.208
57.5	94.494	86.095	89.096	102.017	90.373	100.251	92.082
60.0	66.663	67.107	63.903	69.951	72.972	70.946	69.834
62.5	56.782	54.103	56.012	59.964	56.685	59.173	56.490
65.0	48.529	48.306	48.638	50.557	51.213	50.332	49.806

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CANDELA TABULATION - (Cont.)

67.5	43.997	43.707	44.314	45.838	45.900	45.732	45.157
70.0	39.453	39.331	39.603	41.060	41.546	40.958	40.303
72.5	34.892	34.708	34.050	36.137	36.687	36.045	35.355
75.0	29.478	29.326	28.733	30.959	31.069	30.472	30.080
77.5	23.877	23.711	23.395	25.514	24.819	24.702	24.577
80.0	18.372	17.856	17.443	19.472	18.961	18.789	18.759
82.5	12.171	11.660	11.429	13.108	13.177	13.244	12.501
85.0	5.905	5.283	4.950	7.121	6.511	6.665	6.376
87.5	1.100	0.871	0.849	1.692	1.399	1.593	1.413
90.0	0.117	0.238	0.264	0.183	0.287	0.153	0.204
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	180.67	N.A.	16.80
0-30	375.69	N.A.	34.90
0-40	609.82	N.A.	56.70
0-60	983.97	N.A.	91.50
0-80	1067.01	N.A.	99.20
0-90	1075.29	N.A.	100.00
10-90	1027.4	N.A.	95.50
20-40	429.15	N.A.	39.90
20-50	672.17	N.A.	62.50
40-70	425.42	N.A.	39.60
60-80	83.04	N.A.	7.70
70-80	31.77	N.A.	3.00
80-90	8.28	N.A.	0.80
90-110	0.03	N.A.	0.00
90-120	0.03	N.A.	0.00
90-130	0.03	N.A.	0.00
90-150	0.03	N.A.	0.00
90-180	0.03	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1075.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.90
10-20	132.77
20-30	195.03
30-40	234.13
40-50	243.01
50-60	131.13
60-70	51.27
70-80	31.77
80-90	8.28
90-100	0.03
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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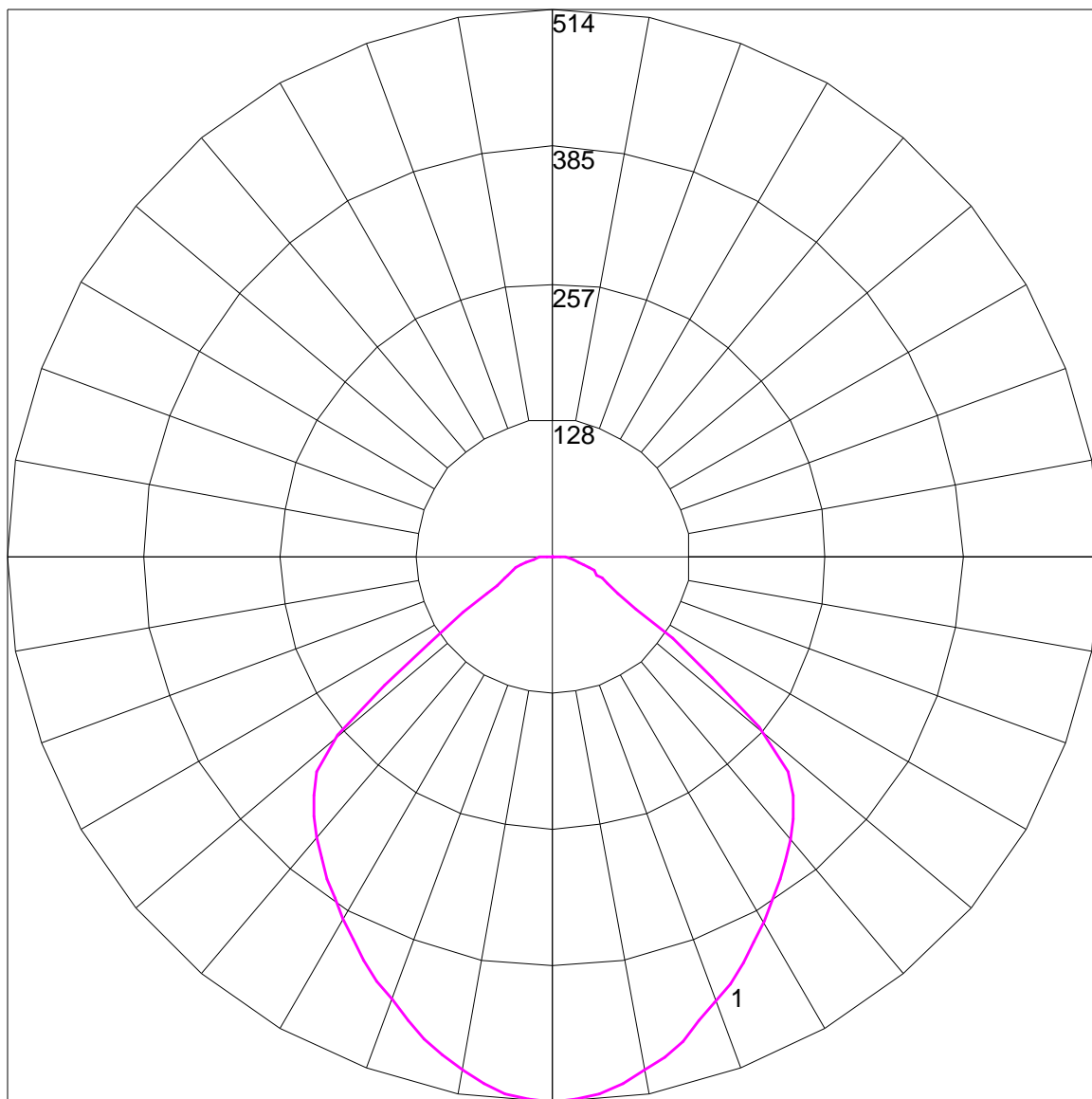
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	99	100	98	95	97	95	93	93	91	90	88
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76
3	95	85	78	73	92	84	77	72	81	76	71	78	74	70	76	72	69	67
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	59
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52
6	75	63	55	49	73	62	55	49	60	54	49	59	53	48	57	52	48	46
7	70	58	50	44	68	57	49	44	55	48	44	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	39	51	44	39	50	43	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	33
10	57	45	38	33	56	44	37	33	44	37	32	43	37	32	42	36	32	31

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POLAR GRAPH



Maximum Candela = 513.6 Located At Horizontal Angle = 292.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)