

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00675 ~ HD30GV-15L35K-EX-MWI.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00675_M-15L
 [TESTLAB] Spectrum Photometric Lab VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 4/20/2018
 [UPDATE] 5/3/2018
 [LUMCAT] HD30GV-15L-35K-EX-MWI-xx
 [LUMINAIRE] Nom. 30" diam x 11.5" H, Half Dome luminaire
 [OTHER] Regressed, 6" diam low profile frosted glass diffuser
 [OTHER] Reflector: Matte White interior finish
 [OTHER] Nom. 100 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	1085
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Circular
Luminous Length (0-180)	2.50 ft (Diameter)
Luminous Width (90-270)	2.50 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	942	964	968
55	727	841	883
65	208	249	268
75	180	199	201
85	109	161	187

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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	531.171	531.171	531.171	531.171	531.171	531.171	531.171	531.171	531.171	531.171
2.5	527.265	528.489	530.139	532.748	533.676	530.340	527.231	524.592	525.972	522.136
5.0	520.681	523.781	527.646	530.052	530.476	524.894	520.539	514.640	516.517	511.996
7.5	509.824	513.737	516.776	521.197	519.390	511.915	507.087	500.932	503.079	496.677
10.0	497.668	502.378	505.438	509.511	507.162	498.102	492.989	485.969	487.590	481.247
12.5	484.142	489.827	492.259	496.541	493.042	482.908	478.033	470.134	472.148	465.606
15.0	470.771	477.064	479.153	483.112	478.853	468.258	463.044	455.354	456.725	450.609
17.5	457.535	464.039	466.263	469.495	464.572	454.337	448.733	441.166	442.269	436.610
20.0	444.286	450.986	453.218	455.828	450.619	440.350	434.496	427.680	428.120	423.007
22.5	431.027	437.417	439.812	442.178	437.021	426.292	421.415	414.507	414.910	409.901
25.0	417.104	423.821	426.184	428.532	423.189	412.537	408.306	401.822	401.925	397.193
27.5	402.792	409.475	412.145	414.391	409.143	399.057	394.954	389.311	389.162	384.898
30.0	389.073	395.140	397.978	400.184	395.083	385.437	381.712	376.949	376.437	372.631
32.5	375.633	381.047	383.618	385.751	381.012	371.713	369.067	364.625	364.771	360.389
35.0	361.506	366.944	369.283	371.302	367.120	358.659	356.492	352.223	353.213	348.697
37.5	347.130	352.748	354.979	356.989	353.336	346.017	344.184	339.806	341.279	337.386
40.0	333.032	338.527	340.584	342.688	339.663	333.403	332.016	328.138	329.326	325.652
42.5	319.014	324.154	326.098	328.725	326.044	320.803	320.264	316.568	317.445	313.674
45.0	303.983	309.520	311.075	314.687	312.491	308.470	308.198	304.606	305.534	301.329
47.5	288.743	293.812	295.600	299.762	298.965	296.241	295.408	292.616	293.081	288.817
50.0	270.401	276.918	278.490	284.367	283.029	281.429	281.357	277.257	280.065	273.430
52.5	251.635	256.260	260.268	265.717	266.372	265.828	265.004	260.607	261.836	257.021
55.0	190.382	222.270	220.178	241.335	231.054	229.269	231.594	205.222	236.312	206.365
57.5	125.640	155.822	167.959	190.374	191.569	188.031	172.370	150.243	169.100	146.157
60.0	86.675	100.601	118.142	140.009	133.154	130.793	119.612	99.787	108.388	99.735
62.5	49.160	66.932	69.401	91.697	71.880	71.140	74.785	54.342	73.632	56.073
65.0	40.155	43.430	47.971	53.638	51.761	51.547	47.281	42.394	45.604	42.224
67.5	31.827	35.480	35.878	41.425	35.695	36.052	36.855	32.354	37.098	32.209
70.0	28.057	29.956	30.911	32.858	31.729	31.788	30.662	28.709	30.547	28.529
72.5	24.503	26.454	27.107	28.884	27.757	27.657	26.825	24.956	26.731	24.911
75.0	21.283	22.520	23.557	25.115	23.772	23.833	22.951	21.090	23.014	21.401
77.5	17.178	18.339	19.504	21.145	19.932	19.735	18.853	17.059	19.152	17.143
80.0	12.759	13.874	15.073	16.538	15.892	15.554	14.467	13.040	14.805	12.721
82.5	8.348	9.740	10.512	12.613	11.558	11.299	9.953	8.986	10.622	8.474
85.0	4.329	5.390	6.398	8.218	7.456	6.890	6.312	5.036	5.938	4.371
87.5	1.058	1.757	2.249	3.713	3.260	3.095	2.550	1.482	2.332	1.337
90.0	0.316	0.191	0.340	0.357	0.664	0.548	0.171	0.150	0.127	0.223
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	531.171	531.171	531.171	531.171	531.171	531.171	531.171
2.5	521.002	519.550	523.751	525.112	525.292	528.913	527.265
5.0	509.630	506.830	511.239	514.712	517.326	521.379	520.681
7.5	494.459	491.613	495.937	501.250	504.121	510.822	509.824
10.0	479.050	476.143	479.803	486.875	490.482	497.861	497.668
12.5	464.010	460.377	464.396	472.386	475.421	484.089	484.142
15.0	449.031	445.376	449.154	457.872	460.667	469.780	470.771
17.5	435.300	431.121	435.015	443.192	446.680	455.715	457.535
20.0	421.635	417.747	421.048	428.488	432.875	441.781	444.286
22.5	408.657	405.073	408.241	414.849	419.433	428.201	431.027
25.0	395.797	392.582	395.543	401.306	405.964	414.773	417.104
27.5	383.658	380.210	382.982	388.373	392.453	401.010	402.792
30.0	371.549	368.075	370.434	375.467	379.094	387.134	389.073
32.5	359.568	356.065	358.492	362.736	365.936	373.482	375.633
35.0	347.542	344.173	346.517	350.023	352.847	359.886	361.506
37.5	335.370	332.330	334.023	337.558	339.833	346.158	347.130
40.0	323.398	320.154	321.557	325.075	326.988	332.406	333.032
42.5	311.924	307.870	309.320	312.449	314.293	319.192	319.014
45.0	299.778	294.544	296.573	299.438	300.650	306.041	303.983
47.5	286.313	280.958	281.156	284.404	286.319	290.480	288.743
50.0	269.998	261.800	263.068	266.614	268.058	274.784	270.401
52.5	249.074	241.671	234.802	238.542	247.464	249.911	251.635
55.0	206.941	176.883	196.162	199.717	193.961	223.108	190.382
57.5	137.083	107.092	127.308	129.579	124.631	153.740	125.640
60.0	86.304	73.590	72.964	74.199	82.745	88.521	86.675
62.5	56.095	42.118	51.378	52.137	51.185	63.478	49.160
65.0	38.523	35.618	35.951	36.398	39.147	41.404	40.155

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CANDELA TABULATION - (Cont.)

67.5	31.936	29.436	31.283	31.542	32.829	35.414	31.827
70.0	27.377	25.744	27.184	27.228	28.356	30.057	28.057
72.5	23.792	22.181	23.625	23.427	24.222	26.042	24.503
75.0	19.872	18.839	19.174	19.693	20.651	22.162	21.283
77.5	15.873	14.591	14.799	15.884	16.628	18.261	17.178
80.0	11.829	10.214	10.875	11.875	12.268	13.997	12.759
82.5	7.962	5.962	6.615	6.971	7.779	9.449	8.348
85.0	3.609	2.253	2.749	3.078	3.909	4.926	4.329
87.5	1.033	0.499	0.496	0.704	0.969	1.308	1.058
90.0	0.118	0.191	0.332	0.127	0.305	0.160	0.316
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	179.28	N.A.	16.50
0-30	367.95	N.A.	33.90
0-40	591.38	N.A.	54.50
0-60	1005.83	N.A.	92.70
0-80	1079.08	N.A.	99.40
0-90	1085.3	N.A.	100.00
10-90	1036.64	N.A.	95.50
20-40	412.10	N.A.	38.00
20-50	646.98	N.A.	59.60
40-70	464.87	N.A.	42.80
60-80	73.26	N.A.	6.80
70-80	22.83	N.A.	2.10
80-90	6.21	N.A.	0.60
90-110	0.04	N.A.	0.00
90-120	0.04	N.A.	0.00
90-130	0.04	N.A.	0.00
90-150	0.04	N.A.	0.00
90-180	0.04	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1085.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.65
10-20	130.63
20-30	188.67
30-40	223.43
40-50	234.88
50-60	179.56
60-70	50.43
70-80	22.83
80-90	6.21
90-100	0.04
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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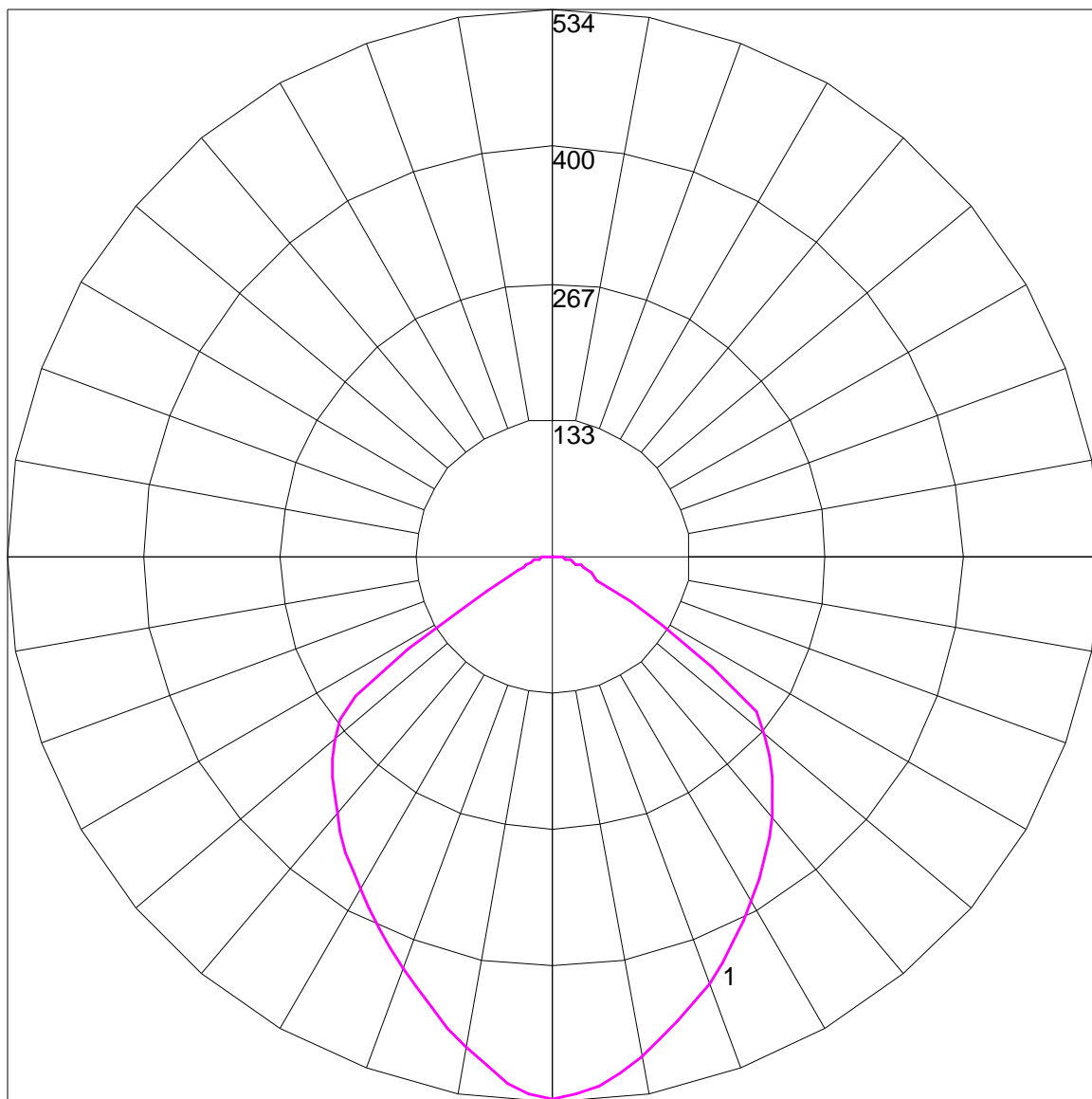
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	99	101	98	96	97	95	93	93	92	90	88
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	76	69	63	85	75	68	62	73	66	61	71	65	61	68	64	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	31	41	35	31	30

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POLAR GRAPH



Maximum Candela = 533.676 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)