

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00675 ~ HD30GV-27L35K-EX-MWI.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00675\_M-27L  
 [TESTLAB] Spectrum Photometric Lab VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 4/20/2018  
 [UPDATE] 5/3/2018  
 [LUMCAT] HD30GV-27L-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	1896
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	18
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	1645	1684	1692
55	1270	1469	1542
65	364	434	469
75	315	348	352
85	190	281	327

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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>
<b>0.0</b>	928.046	928.046	928.046	928.046	928.046	928.046	928.046	928.046	928.046	928.046
<b>2.5</b>	921.222	923.360	926.244	930.801	932.422	926.594	921.162	916.552	918.963	912.260
<b>5.0</b>	909.718	915.134	921.887	926.091	926.831	917.078	909.470	899.164	902.443	894.544
<b>7.5</b>	890.749	897.585	902.895	910.620	907.463	894.402	885.968	875.214	878.964	867.780
<b>10.0</b>	869.510	877.741	883.086	890.202	886.099	870.268	861.336	849.070	851.902	840.821
<b>12.5</b>	845.879	855.810	860.060	867.541	861.428	843.722	835.205	821.403	824.922	813.493
<b>15.0</b>	822.518	833.512	837.161	844.079	836.637	818.127	809.016	795.581	797.975	787.291
<b>17.5</b>	799.392	810.756	814.642	820.288	811.686	793.804	784.013	770.791	772.719	762.832
<b>20.0</b>	776.243	787.949	791.849	796.409	787.307	769.367	759.139	747.230	747.999	739.065
<b>22.5</b>	753.077	764.242	768.426	772.561	763.550	744.805	736.283	724.214	724.919	716.166
<b>25.0</b>	728.752	740.487	744.617	748.719	739.383	720.772	713.380	702.051	702.232	693.964
<b>27.5</b>	703.746	715.423	720.087	724.012	714.843	697.221	690.052	680.193	679.933	672.482
<b>30.0</b>	679.777	690.377	695.335	699.190	690.277	673.423	666.916	658.593	657.699	651.050
<b>32.5</b>	656.294	665.753	670.245	673.973	665.692	649.445	644.823	637.063	637.316	629.661
<b>35.0</b>	631.613	641.113	645.200	648.728	641.420	626.638	622.852	615.394	617.124	609.233
<b>37.5</b>	606.495	616.311	620.208	623.720	617.338	604.551	601.349	593.699	596.272	589.470
<b>40.0</b>	581.864	591.464	595.058	598.735	593.448	582.512	580.089	573.313	575.389	568.969
<b>42.5</b>	557.372	566.351	569.749	574.339	569.653	560.498	559.556	553.099	554.630	548.042
<b>45.0</b>	531.111	540.784	543.500	549.812	545.976	538.950	538.475	532.198	533.820	526.474
<b>47.5</b>	504.483	513.340	516.464	523.735	522.343	517.584	516.128	511.250	512.062	504.612
<b>50.0</b>	472.436	483.822	486.569	496.838	494.500	491.704	491.579	484.414	489.321	477.729
<b>52.5</b>	439.650	447.730	454.733	464.252	465.396	464.447	463.007	455.325	457.472	449.060
<b>55.0</b>	332.629	388.344	384.688	421.654	403.690	400.572	404.635	358.558	412.878	360.554
<b>57.5</b>	219.515	272.247	293.452	332.615	334.703	328.522	301.159	262.500	295.446	255.360
<b>60.0</b>	151.437	175.767	206.415	244.619	232.642	228.517	208.982	174.345	189.372	174.255
<b>62.5</b>	85.891	116.941	121.255	160.210	125.587	124.293	130.661	94.944	128.648	97.968
<b>65.0</b>	70.157	75.880	83.814	93.715	90.435	90.061	82.607	74.070	79.678	73.773
<b>67.5</b>	55.608	61.989	62.684	72.376	62.365	62.990	64.391	56.529	64.817	56.275
<b>70.0</b>	49.020	52.338	54.007	57.409	55.436	55.539	53.572	50.159	53.371	49.845
<b>72.5</b>	42.810	46.220	47.361	50.466	48.497	48.321	46.868	43.603	46.703	43.524
<b>75.0</b>	37.185	39.346	41.158	43.880	41.534	41.640	40.099	36.848	40.209	37.391
<b>77.5</b>	30.014	32.041	34.076	36.945	34.824	34.480	32.940	29.806	33.461	29.951
<b>80.0</b>	22.293	24.239	26.335	28.894	27.766	27.175	25.276	22.783	25.867	22.225
<b>82.5</b>	14.586	17.017	18.367	22.037	20.194	19.742	17.390	15.700	18.558	14.806
<b>85.0</b>	7.564	9.418	11.178	14.359	13.026	12.038	11.028	8.799	10.375	7.638
<b>87.5</b>	1.848	3.070	3.930	6.488	5.695	5.408	4.456	2.589	4.074	2.335
<b>90.0</b>	0.552	0.334	0.594	0.623	1.161	0.957	0.299	0.262	0.221	0.389
<b>92.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>97.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>102.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>107.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>112.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>117.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>122.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125.0</b>	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	928.046	928.046	928.046	928.046	928.046	928.046	928.046
2.5	910.280	907.742	915.082	917.460	917.774	924.101	921.222
5.0	890.411	885.518	893.221	899.290	903.857	910.938	909.718
7.5	863.904	858.931	866.486	875.769	880.786	892.493	890.749
10.0	836.982	831.902	838.298	850.653	856.955	869.848	869.510
12.5	810.705	804.357	811.379	825.339	830.641	845.786	845.879
15.0	784.533	778.148	784.749	799.980	804.863	820.785	822.518
17.5	760.542	753.242	760.046	774.332	780.426	796.211	799.392
20.0	736.668	729.876	735.642	748.641	756.307	771.866	776.243
22.5	713.994	707.731	713.266	724.812	732.820	748.140	753.077
25.0	691.524	685.908	691.081	701.150	709.288	724.678	728.752
27.5	670.316	664.292	669.134	678.554	685.682	700.632	703.746
30.0	649.160	643.089	647.211	656.004	662.342	676.389	679.777
32.5	628.227	622.106	626.347	633.762	639.352	652.536	656.294
35.0	607.216	601.328	605.424	611.549	616.483	628.783	631.613
37.5	585.948	580.636	583.595	589.771	593.746	604.797	606.495
40.0	565.030	559.364	561.814	567.962	571.304	580.770	581.864
42.5	544.984	537.900	540.434	545.902	549.124	557.682	557.372
45.0	523.762	514.618	518.164	523.169	525.286	534.705	531.111
47.5	500.237	490.881	491.227	496.902	500.247	507.518	504.483
50.0	471.733	457.410	459.625	465.820	468.343	480.094	472.436
52.5	435.175	422.240	410.239	416.773	432.361	436.636	439.650
55.0	361.562	309.045	342.728	348.939	338.883	389.808	332.629
57.5	239.507	187.107	222.429	226.397	217.752	268.609	219.515
60.0	150.788	128.575	127.481	129.639	144.569	154.661	151.437
62.5	98.008	73.586	89.766	91.092	89.429	110.907	85.891
65.0	67.307	62.230	62.812	63.594	68.397	72.341	70.157

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**CANDELA TABULATION - (Cont.)**

67.5	55.798	51.431	54.657	55.110	57.358	61.873	55.608
70.0	47.832	44.980	47.495	47.571	49.543	52.515	49.020
72.5	41.570	38.754	41.276	40.931	42.320	45.500	42.810
75.0	34.719	32.914	33.500	34.407	36.080	38.720	37.185
77.5	27.734	25.493	25.856	27.753	29.052	31.905	30.014
80.0	20.666	17.846	19.000	20.747	21.434	24.456	22.293
82.5	13.910	10.417	11.558	12.179	13.591	16.509	14.586
85.0	6.305	3.936	4.802	5.378	6.830	8.607	7.564
87.5	1.804	0.872	0.867	1.229	1.694	2.285	1.848
90.0	0.206	0.334	0.580	0.223	0.532	0.279	0.552
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	313.24	N.A.	16.50
0-30	642.88	N.A.	33.90
0-40	1033.24	N.A.	54.50
0-60	1757.35	N.A.	92.70
0-80	1885.34	N.A.	99.40
0-90	1896.2	N.A.	100.00
10-90	1811.19	N.A.	95.50
20-40	720.00	N.A.	38.00
20-50	1130.38	N.A.	59.60
40-70	812.21	N.A.	42.80
60-80	127.99	N.A.	6.70
70-80	39.89	N.A.	2.10
80-90	10.86	N.A.	0.60
90-110	0.06	N.A.	0.00
90-120	0.06	N.A.	0.00
90-130	0.06	N.A.	0.00
90-150	0.06	N.A.	0.00
90-180	0.06	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1896.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	85.01
10-20	228.23
20-30	329.64
30-40	390.36
40-50	410.38
50-60	313.73
60-70	88.10
70-80	39.89
80-90	10.86
90-100	0.06
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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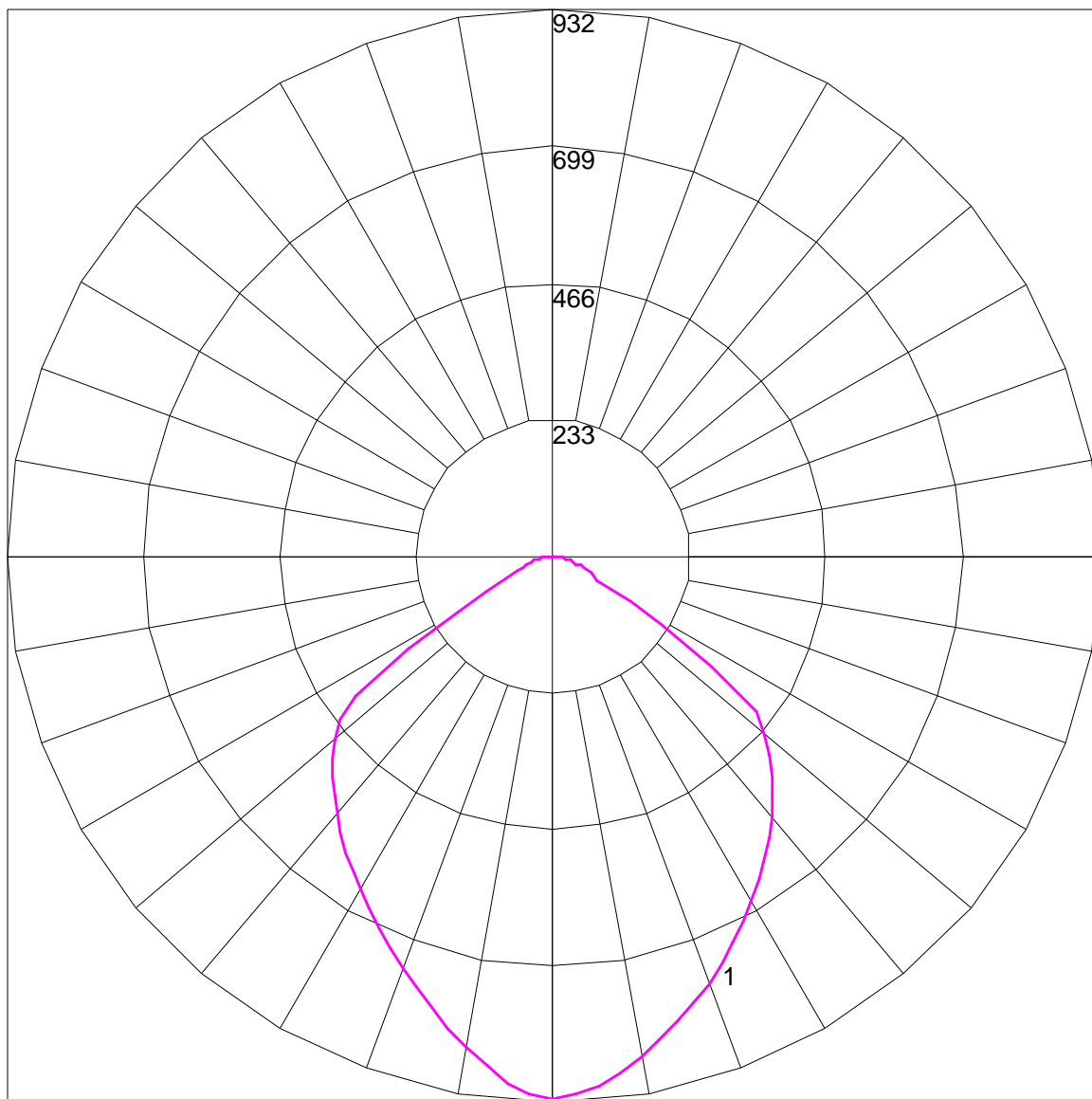
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00675 ~ HD30GV-27L35K-EX-MWI.IES

POLAR GRAPH



Maximum Candela = 932.422 Located At Horizontal Angle = 90, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)