



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L360-840-HA-ND-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 14629546.01  
[TESTLAB] UL Verification Services Inc.  
[ISSUEDATE] 2023-03-14  
[TESTDATE] 1/5/2023  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] GS-4-L360-840-HA-ND-DIM-UNV  
[LUMINAIRE] White aluminum housing, prismatic lense enclosure  
[LAMP] 448 White LEDs  
[BALLAST] ULT D21CC80UNVPW-C

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	34563
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	232
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.36 ft
Luminous Width (90-270)	1.17 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	30938	30455	30659
55	28500	28198	27674
65	25449	25215	23130
75	21270	20268	16498
85	15685	12472	10157

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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>
0.0	15208.808	15208.808	15208.808	15208.808	15208.808
0.5	15073.685	15208.808	15238.835	15208.808	15238.835
1.0	15058.671	15193.794	15238.835	15193.794	15238.835
1.5	15058.671	15193.794	15223.821	15193.794	15223.821
2.0	15043.658	15178.780	15208.808	15178.780	15208.808
2.5	15043.658	15163.767	15208.808	15163.767	15193.794
3.0	15028.644	15148.753	15193.794	15148.753	15178.780
3.5	15004.622	15133.739	15163.767	15118.726	15133.739
4.0	14988.107	15118.726	15148.753	15103.712	15133.739
4.5	14970.091	15103.712	15133.739	15073.685	15103.712
5.0	14949.072	15073.685	15118.726	15058.671	15073.685
5.5	14923.549	15058.671	15088.699	15028.644	15043.658
6.0	14895.023	15028.644	15058.671	14995.614	15028.644
6.5	14864.995	14992.611	15028.644	14961.083	14988.107
7.0	14828.963	14956.579	14988.107	14926.551	14952.075
7.5	14785.423	14916.042	14944.568	14884.513	14914.540
8.0	14746.388	14872.502	14899.527	14840.974	14871.001
8.5	14702.848	14824.459	14851.483	14795.933	14825.960
9.0	14653.303	14773.412	14798.935	14747.889	14777.916
9.5	14600.756	14717.862	14747.889	14696.843	14725.369
10.0	14540.701	14660.810	14689.336	14644.295	14671.320
10.5	14480.647	14597.753	14630.783	14587.243	14611.265
11.0	14416.088	14534.696	14567.726	14527.189	14546.706
11.5	14350.028	14468.636	14504.668	14464.132	14485.151
12.0	14280.965	14399.573	14434.104	14396.570	14414.587
12.5	14213.404	14326.006	14362.039	14329.009	14344.022
13.0	14144.341	14252.439	14285.469	14253.941	14270.456
13.5	14070.774	14175.870	14207.398	14171.366	14190.883
14.0	13992.704	14093.295	14127.826	14084.287	14112.813
14.5	13913.131	14009.219	14045.251	14007.717	14028.736
15.0	13829.055	13926.644	13959.674	13925.142	13944.660
15.5	13741.976	13841.066	13872.594	13835.060	13859.082
16.0	13654.897	13752.485	13779.510	13743.477	13767.499
16.5	13561.812	13665.406	13687.927	13653.395	13671.412
17.0	13465.725	13573.823	13603.850	13558.810	13573.823
17.5	13369.638	13480.739	13506.262	13462.722	13474.733
18.0	13275.052	13384.651	13405.671	13365.134	13375.643
18.5	13175.962	13290.066	13309.583	13266.044	13273.551
19.0	13078.373	13193.978	13210.493	13165.452	13169.957
19.5	12979.283	13096.390	13112.905	13061.858	13069.365
20.0	12881.695	12995.798	13012.313	12959.766	12968.774
20.5	12782.605	12896.709	12911.722	12856.172	12865.180
21.0	12680.512	12797.619	12812.632	12752.578	12763.087
21.5	12584.425	12695.526	12710.539	12648.984	12657.992
22.0	12482.332	12596.436	12608.447	12545.390	12555.899
22.5	12384.744	12497.346	12504.853	12441.796	12452.305
23.0	12285.654	12395.253	12399.757	12335.199	12344.207
23.5	12186.564	12294.662	12291.659	12225.599	12236.109
24.0	12088.975	12197.073	12183.561	12116.000	12129.512
24.5	11997.392	12093.479	12070.959	12006.400	12019.912
25.0	11899.803	11991.387	11959.858	11896.801	11914.817
25.5	11799.212	11887.793	11848.757	11790.204	11808.220
26.0	11701.624	11784.198	11737.656	11683.607	11706.128
26.5	11604.035	11679.103	11626.555	11575.509	11602.534

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**CANDELA TABULATION - (Cont.)**

27.0	11506.44611584.51711515.45511468.91211500.441
27.5	11407.35611494.43511405.85511360.81411398.348
28.0	11308.26611374.32611297.75711254.21711296.256
28.5	11210.67811270.73211189.65911149.12211195.664
29.0	11102.58011177.64811083.06211044.02711095.073
29.5	11003.49011071.05110977.96710941.93410994.482
30.0	10904.40010964.45410874.37210839.84110889.386
30.5	10808.31310863.86310772.28010740.75110787.293
31.0	10710.72410763.27210668.68610641.66110685.201
31.5	10616.13810662.68010565.09210541.07010581.607
32.0	10523.05410562.08910462.99910441.98010479.514
32.5	10428.46810464.50010360.90610344.39110380.424
33.0	10335.38310365.41010258.81410243.80010281.334
33.5	10243.80010269.32310156.72110144.71010185.247
34.0	10150.71610170.23310056.13010044.11910089.160
34.5	10057.63110071.1439943.527 9942.026 9991.571
35.0	9963.045 9973.555 9845.939 9839.933 9893.982
35.5	9869.961 9875.966 9749.852 9737.841 9796.394
36.0	9775.375 9778.377 9647.759 9637.249 9697.304
36.5	9680.789 9677.786 9547.168 9535.157 9599.715
37.0	9587.704 9578.696 9446.576 9433.064 9499.124
37.5	9506.631 9476.604 9342.982 9330.971 9400.034
38.0	9416.549 9376.012 9242.391 9228.879 9300.944
38.5	9294.939 9273.919 9141.800 9128.287 9203.355
39.0	9194.347 9170.325 9045.712 9027.696 9104.265
39.5	9093.756 9068.233 8951.126 8927.105 9003.674
40.0	8990.162 8964.639 8843.028 8826.513 8903.083
40.5	8888.069 8862.546 8737.933 8725.922 8802.491
41.0	8785.977 8761.955 8638.843 8625.331 8701.900
41.5	8683.884 8658.361 8539.753 8523.238 8599.807
42.0	8580.290 8556.268 8439.162 8421.145 8497.715
42.5	8479.698 8454.175 8341.573 8319.053 8398.625
43.0	8377.606 8352.083 8243.984 8218.461 8301.036
43.5	8277.014 8249.990 8144.894 8114.867 8201.946
44.0	8176.423 8149.399 8048.807 8012.775 8101.355
44.5	8075.832 8042.802 7949.717 7912.183 8003.766
45.0	7976.742 7934.704 7852.129 7810.091 7904.676
45.5	7877.652 7838.616 7754.540 7707.998 7801.082
46.0	7777.061 7738.025 7656.951 7605.905 7700.491
46.5	7680.973 7626.924 7557.862 7503.812 7596.897
47.0	7581.883 7533.840 7460.273 7401.720 7493.303
47.5	7481.292 7439.254 7361.183 7301.128 7389.709
48.0	7382.202 7338.663 7263.594 7199.036 7283.112
48.5	7283.112 7236.570 7164.504 7098.444 7178.017
49.0	7184.022 7135.979 7066.916 6996.352 7074.423
49.5	7084.932 7035.387 6969.327 6898.763 6967.826
50.0	6984.341 6933.295 6871.739 6799.673 6862.730
50.5	6883.750 6831.202 6775.651 6696.079 6757.635
51.0	6781.657 6730.611 6678.063 6593.986 6651.038
51.5	6681.066 6630.019 6581.976 6496.398 6545.943
52.0	6578.973 6530.929 6484.387 6395.807 6437.845
52.5	6473.877 6430.338 6388.300 6295.215 6329.747
53.0	6370.283 6329.747 6290.711 6196.125 6221.648
53.5	6268.191 6229.155 6193.123 6097.035 6113.550
54.0	6166.098 6130.065 6095.534 5997.945 6005.452
54.5	6064.005 6030.975 5996.444 5895.853 5897.354

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**CANDELA TABULATION - (Cont.)**

55.0	5960.411	5931.885	5897.354	5795.261	5787.755
55.5	5859.820	5831.294	5799.765	5691.667	5679.656
56.0	5757.727	5730.703	5699.174	5589.575	5571.558
56.5	5655.635	5630.111	5592.577	5485.981	5463.460
57.0	5553.542	5531.021	5487.482	5382.386	5353.861
57.5	5452.951	5430.430	5395.899	5277.291	5244.261
58.0	5350.858	5329.839	5298.310	5172.196	5136.163
58.5	5248.765	5229.247	5197.719	5065.599	5025.062
59.0	5146.672	5127.155	5097.128	4957.501	4915.463
59.5	5044.580	5026.563	4996.536	4850.904	4807.364
60.0	4943.988	4924.471	4894.444	4742.806	4712.779
60.5	4841.896	4822.378	4795.354	4636.209	4594.171
61.0	4739.803	4720.285	4696.264	4529.612	4468.056
61.5	4637.710	4619.694	4594.171	4421.514	4353.953
62.0	4537.119	4516.100	4492.078	4313.416	4241.351
62.5	4433.525	4414.007	4389.986	4206.819	4127.247
63.0	4331.432	4313.416	4289.394	4098.721	4014.645
63.5	4227.838	4211.323	4190.304	3993.626	3900.541
64.0	4124.244	4110.732	4089.713	3887.029	3787.939
64.5	4022.152	4010.141	3987.620	3781.933	3675.337
65.0	3921.560	3909.549	3885.528	3675.337	3564.236
65.5	3820.969	3808.958	3786.438	3570.241	3454.636
66.0	3720.378	3708.367	3685.846	3465.146	3345.037
66.5	3619.786	3610.778	3585.255	3360.050	3235.437
67.0	3519.195	3511.688	3484.664	3245.947	3127.339
67.5	3420.105	3412.598	3384.072	3145.356	3020.742
68.0	3321.015	3313.508	3281.980	3044.764	2914.146
68.5	3223.426	3215.920	3181.388	2941.170	2809.050
69.0	3125.838	3116.830	3079.296	2836.075	2703.955
69.5	3029.751	3020.742	2978.704	2732.481	2601.862
70.0	2933.663	2923.154	2878.113	2628.887	2499.769
70.5	2839.078	2825.565	2777.522	2526.794	2399.178
71.0	2744.492	2727.977	2678.432	2424.701	2300.088
71.5	2649.906	2633.391	2579.342	2325.611	2200.998
72.0	2556.821	2537.304	2480.252	2226.521	2104.911
72.5	2463.737	2442.718	2382.663	2128.933	2010.325
73.0	2372.154	2348.132	2288.077	2032.846	1915.739
73.5	2280.570	2255.047	2191.990	1938.260	1824.156
74.0	2187.486	2161.963	2097.404	1846.677	1732.573
74.5	2098.906	2070.380	2004.320	1755.093	1643.993
75.0	2007.322	1980.298	1912.737	1665.012	1556.913
75.5	1918.742	1890.216	1819.652	1576.431	1471.336
76.0	1831.663	1803.137	1729.570	1490.853	1390.262
76.5	1744.584	1716.058	1640.990	1406.777	1309.189
77.0	1659.006	1630.480	1552.409	1325.704	1226.614
77.5	1574.930	1547.905	1466.832	1246.131	1147.041
78.0	1492.355	1465.330	1381.254	1168.060	1077.979
78.5	1411.281	1384.257	1297.178	1092.992	1010.417
79.0	1331.709	1304.684	1216.104	1019.426	942.856
79.5	1253.638	1226.614	1135.030	947.360	876.796
80.0	1177.069	1150.044	1055.458	878.297	813.739
80.5	1102.000	1076.477	978.889	816.741	752.183
81.0	1029.935	1002.911	902.319	758.188	695.131
81.5	959.371	930.845	828.752	689.126	641.082
82.0	888.807	861.782	759.690	629.071	588.534
82.5	819.744	792.720	692.128	573.521	537.488

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**CANDELA TABULATION - (Cont.)**

83.0	752.183	725.158	627.570	520.973	489.444
83.5	687.624	660.600	564.513	471.428	444.403
84.0	623.066	597.542	504.458	424.886	402.365
84.5	560.008	534.485	448.908	379.845	361.828
85.0	498.453	474.431	396.360	339.308	322.793
85.5	436.897	415.878	346.815	298.771	283.758
86.0	378.343	360.327	301.774	259.736	244.722
86.5	318.289	304.777	256.733	222.202	211.692
87.0	261.237	252.229	214.695	192.174	184.668
87.5	207.188	204.185	177.161	165.150	160.646
88.0	157.643	159.144	147.134	136.624	135.123
88.5	112.602	120.109	117.106	115.605	114.104
89.0	70.564	87.079	94.586	100.591	100.591
89.5	42.038	61.556	76.570	87.079	87.079
90.0	0.000	0.000	0.000	0.000	0.000
90.5	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : GS-4-L360-840-HA-ND-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

139.0	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : GS-4-L360-840-HA-ND-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GS-4-L360-840-HA-ND-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	5335.25	N.A.	15.40
0-30	10830.69	N.A.	31.30
0-40	17021.93	N.A.	49.20
0-60	28354.97	N.A.	82.00
0-80	34079.22	N.A.	98.60
0-90	34563.47	N.A.	100.00
10-90	33138.39	N.A.	95.90
20-40	11686.68	N.A.	33.80
20-50	17771.58	N.A.	51.40
40-70	15099.28	N.A.	43.70
60-80	5724.25	N.A.	16.60
70-80	1958.01	N.A.	5.70
80-90	484.25	N.A.	1.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	34563.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1425.08
10-20	3910.17
20-30	5495.44
30-40	6191.24
40-50	6084.9
50-60	5248.15
60-70	3766.24
70-80	1958.01
80-90	484.25
90-100	0.00
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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GS-4-L360-840-HA-ND-DIM-UNV\_.IES**

**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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	43	36	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	34	29	39	33	29	39	33	29	27

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GS-4-L360-840-HA-ND-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

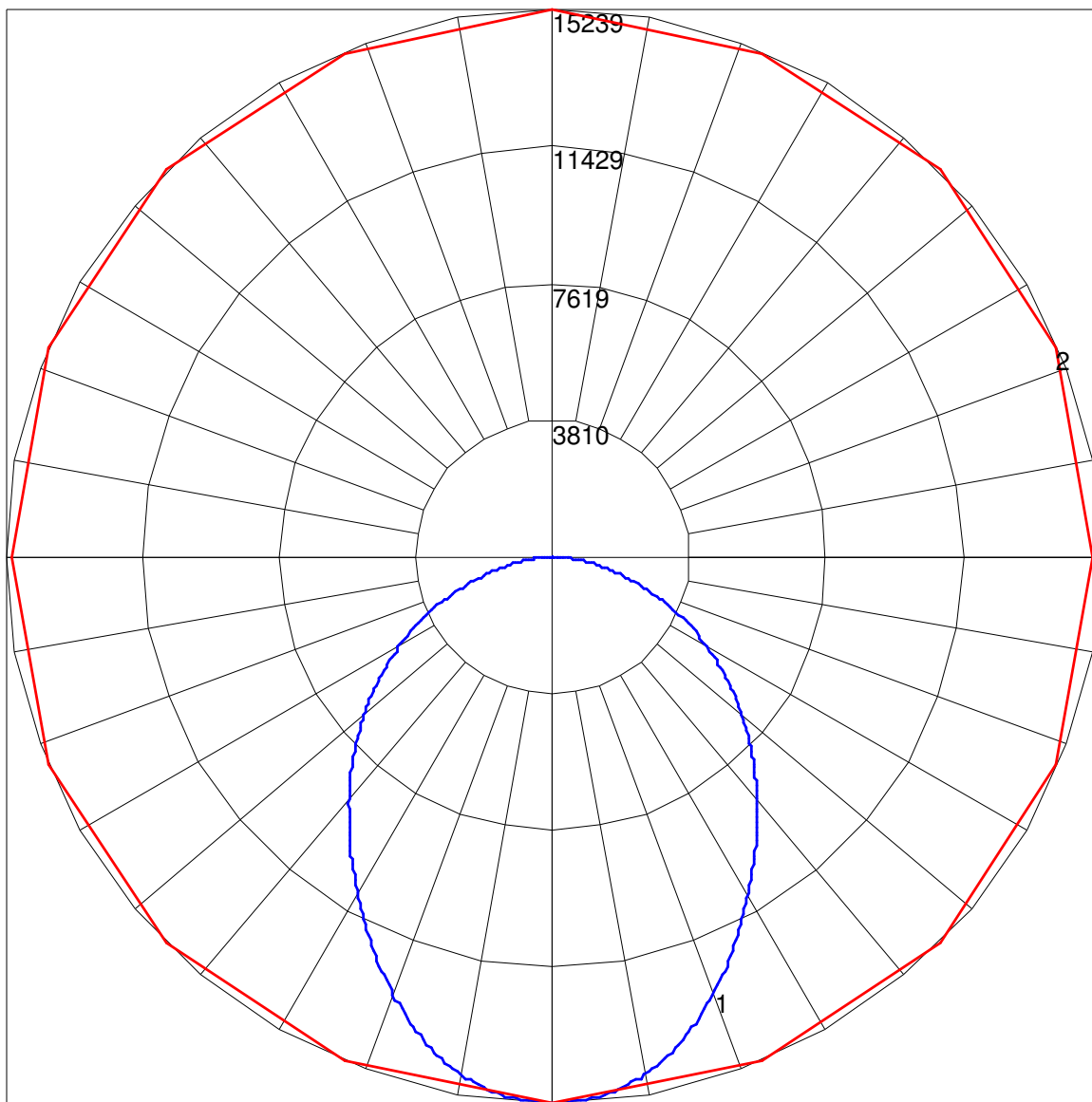
Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	23.6	25.2	24.0	25.5	25.8	23.4	25.0	23.7	25.3	25.6
	3H	25.3	26.7	25.6	27.0	27.4	24.8	26.3	25.2	26.6	26.9
	4H	25.9	27.2	26.3	27.6	27.9	25.3	26.6	25.7	27.0	27.3
	6H	26.3	27.5	26.7	27.9	28.3	25.5	26.8	26.0	27.1	27.5
	8H	26.4	27.6	26.8	28.0	28.4	25.6	26.8	26.0	27.2	27.6
	12H	26.5	27.6	26.9	28.0	28.5	25.6	26.8	26.1	27.1	27.6
4H	2H	24.2	25.5	24.6	25.9	26.2	24.0	25.3	24.4	25.7	26.1
	3H	26.0	27.2	26.5	27.6	28.0	25.7	26.8	26.1	27.2	27.6
	4H	26.8	27.8	27.2	28.2	28.6	26.2	27.2	26.6	27.6	28.1
	6H	27.3	28.2	27.8	28.6	29.1	26.6	27.4	27.0	27.9	28.3
	8H	27.5	28.3	27.9	28.8	29.2	26.6	27.5	27.1	27.9	28.4
	12H	27.6	28.4	28.1	28.8	29.3	26.7	27.4	27.2	27.9	28.4
8H	4H	27.0	27.8	27.5	28.3	28.7	26.5	27.3	27.0	27.8	28.2
	6H	27.7	28.3	28.2	28.8	29.3	26.9	27.6	27.4	28.1	28.6
	8H	27.9	28.5	28.4	29.0	29.5	27.1	27.7	27.6	28.2	28.7
	12H	28.1	28.6	28.6	29.1	29.7	27.2	27.7	27.7	28.2	28.8
12H	4H	27.0	27.8	27.5	28.2	28.7	26.5	27.3	27.0	27.7	28.2
	6H	27.7	28.3	28.2	28.8	29.3	27.0	27.6	27.5	28.1	28.6
	8H	28.0	28.5	28.5	29.0	29.6	27.2	27.7	27.7	28.2	28.8

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 15238.835 Located At Horizontal Angle = 45, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)