



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L360-850-HA-ND-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 14629546.01  
[TESTLAB] UL Verification Services Inc.  
[ISSUE DATE] 2023-03-14  
[TEST DATE] 1/5/2023  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] GS-4-L360-850-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	35600
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
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	31866	31368	31578
55	29355	29044	28504
65	26212	25971	23824
75	21908	20876	16993
85	16155	12846	10462

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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	15665.073	15665.073	15665.073	15665.073	15665.073
0.5	15525.896	15665.073	15696.001	15665.073	15696.001
1.0	15510.432	15649.609	15696.001	15649.609	15696.001
1.5	15510.432	15649.609	15680.537	15649.609	15680.537
2.0	15494.968	15634.144	15665.073	15634.144	15665.073
2.5	15494.968	15618.680	15665.073	15618.680	15649.609
3.0	15479.504	15603.216	15649.609	15603.216	15634.144
3.5	15454.762	15587.752	15618.680	15572.288	15587.752
4.0	15437.751	15572.288	15603.216	15556.824	15587.752
4.5	15419.194	15556.824	15587.752	15525.896	15556.824
5.0	15397.545	15525.896	15572.288	15510.432	15525.896
5.5	15371.256	15510.432	15541.360	15479.504	15494.968
6.0	15341.874	15479.504	15510.432	15445.483	15479.504
6.5	15310.946	15442.390	15479.504	15409.916	15437.751
7.0	15273.832	15405.277	15437.751	15374.349	15400.637
7.5	15228.987	15363.524	15392.905	15331.049	15361.977
8.0	15188.780	15318.678	15346.513	15286.204	15317.132
8.5	15143.934	15269.193	15297.028	15239.811	15270.740
9.0	15092.903	15216.615	15242.904	15190.327	15221.255
9.5	15038.779	15159.398	15190.327	15137.749	15167.130
10.0	14976.923	15100.635	15130.017	15083.625	15111.460
10.5	14915.067	15035.686	15069.707	15024.861	15049.604
11.0	14848.571	14970.737	15004.758	14963.005	14983.108
11.5	14780.529	14902.695	14939.809	14898.056	14919.706
12.0	14709.395	14831.561	14867.128	14828.468	14847.025
12.5	14639.807	14755.787	14792.901	14758.880	14774.344
13.0	14568.672	14680.013	14714.034	14681.560	14698.570
13.5	14492.898	14601.147	14633.621	14596.507	14616.611
14.0	14412.485	14516.094	14551.662	14506.816	14536.198
14.5	14330.526	14429.496	14466.609	14427.949	14449.599
15.0	14243.927	14344.444	14378.464	14342.897	14363.000
15.5	14154.236	14256.299	14288.773	14250.113	14274.855
16.0	14064.544	14165.061	14192.896	14155.782	14180.525
16.5	13968.667	14075.369	14098.565	14062.998	14081.555
17.0	13869.698	13981.039	14011.967	13965.575	13981.039
17.5	13770.728	13885.162	13911.450	13866.605	13878.976
18.0	13673.304	13786.192	13807.841	13766.088	13776.913
18.5	13571.242	13688.768	13708.871	13664.026	13671.758
19.0	13470.725	13589.798	13606.809	13560.417	13565.056
19.5	13368.663	13489.282	13506.293	13453.715	13461.447
20.0	13268.146	13385.673	13402.684	13348.559	13357.838
20.5	13166.084	13283.610	13299.074	13241.857	13251.136
21.0	13060.928	13181.548	13197.012	13135.156	13145.980
21.5	12961.958	13076.392	13091.856	13028.454	13037.732
22.0	12856.803	12974.330	12986.701	12921.752	12932.577
22.5	12756.287	12872.267	12879.999	12815.050	12825.875
23.0	12654.224	12767.111	12771.751	12705.255	12714.534
23.5	12552.161	12663.502	12660.410	12592.368	12603.193
24.0	12451.645	12562.986	12549.068	12479.480	12493.398
24.5	12357.314	12456.284	12433.088	12366.593	12380.510
25.0	12256.798	12351.129	12318.654	12253.705	12272.262
25.5	12153.189	12244.427	12204.220	12143.911	12162.467
26.0	12052.673	12137.725	12089.787	12034.116	12057.312
26.5	11952.157	12029.477	11975.353	11922.775	11950.610

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**CANDELA TABULATION - (Cont.)**

27.0	11851.64011932.05311860.91911812.98011845.455
27.5	11749.57811839.26911748.03111701.63911740.299
28.0	11647.51511715.55711636.69011591.84411635.144
28.5	11546.99911608.85511525.34911483.59611531.535
29.0	11435.65811512.97811415.55411375.34811427.926
29.5	11333.59511403.18311307.30611270.19211324.317
30.0	11231.53211293.38811200.60411165.03711216.068
30.5	11132.56211189.77911095.44911062.97411110.913
31.0	11032.04611086.17010988.74710960.91211005.757
31.5	10934.62310982.56110882.04510857.30310899.055
32.0	10838.74610878.95210776.89010755.24010793.900
32.5	10741.32210778.43610671.73410654.72410691.837
33.0	10645.44510676.37310566.57910551.11510589.775
33.5	10551.11510577.40310461.42310449.05210490.805
34.0	10455.23710475.34110357.81410345.44310391.835
34.5	10359.36010373.27810241.83410240.28710291.319
35.0	10261.93710272.76210141.31710135.13210190.802
35.5	10166.06010172.24610042.34810029.97610090.286
36.0	10068.63610071.7299937.192 9926.367 9988.223
36.5	9971.213 9968.120 9833.583 9821.212 9887.707
37.0	9875.336 9866.058 9729.974 9716.056 9784.098
37.5	9791.830 9760.902 9623.272 9610.901 9682.035
38.0	9699.046 9657.293 9519.663 9505.745 9579.973
38.5	9573.787 9552.138 9416.054 9402.136 9479.457
39.0	9470.178 9445.436 9317.084 9298.527 9377.394
39.5	9366.569 9340.280 9219.661 9194.918 9273.785
40.0	9259.867 9233.578 9108.320 9091.309 9170.176
40.5	9154.712 9128.423 9000.071 8987.700 9066.567
41.0	9049.556 9024.814 8898.009 8884.091 8962.958
41.5	8944.401 8918.112 8795.946 8778.936 8857.802
42.0	8837.699 8812.956 8692.337 8673.780 8752.647
42.5	8734.090 8707.801 8591.821 8568.625 8650.584
43.0	8628.934 8602.645 8491.304 8465.016 8550.068
43.5	8525.325 8497.490 8389.242 8358.314 8448.005
44.0	8421.716 8393.881 8290.272 8253.158 8344.396
44.5	8318.107 8284.086 8188.209 8149.549 8243.880
45.0	8216.044 8172.745 8087.693 8044.394 8141.817
45.5	8113.982 8073.775 7987.177 7939.238 8035.115
46.0	8010.373 7970.166 7886.660 7834.083 7931.506
46.5	7911.403 7855.732 7784.598 7728.927 7824.804
47.0	7809.340 7759.855 7684.081 7623.772 7718.102
47.5	7705.731 7662.432 7582.019 7520.163 7611.401
48.0	7603.668 7558.823 7481.503 7415.007 7501.606
48.5	7501.606 7453.667 7379.440 7311.398 7393.358
49.0	7399.543 7350.058 7278.924 7206.243 7286.656
49.5	7297.480 7246.449 7178.407 7105.726 7176.861
50.0	7193.871 7141.294 7077.891 7003.664 7068.613
50.5	7090.262 7036.138 6978.921 6896.962 6960.364
51.0	6985.107 6932.529 6878.405 6791.806 6850.570
51.5	6881.498 6828.920 6779.435 6691.290 6742.321
52.0	6776.342 6726.857 6678.919 6587.681 6630.980
52.5	6668.094 6623.248 6579.949 6484.072 6519.639
53.0	6561.392 6519.639 6479.433 6382.009 6408.298
53.5	6456.237 6416.030 6378.917 6279.947 6296.957
54.0	6351.081 6313.968 6278.400 6177.884 6185.616
54.5	6245.926 6211.905 6176.338 6072.729 6074.275

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**CANDELA TABULATION - (Cont.)**

55.0	6139.224	6109.842	6074.275	5969.119	5961.387
55.5	6035.615	6006.233	5973.759	5862.418	5850.046
56.0	5930.459	5902.624	5870.150	5757.262	5738.705
56.5	5825.304	5799.015	5760.355	5650.560	5627.364
57.0	5720.148	5696.952	5652.107	5543.858	5514.477
57.5	5616.539	5593.343	5557.776	5435.610	5401.589
58.0	5511.384	5489.734	5457.260	5327.362	5290.248
58.5	5406.228	5386.125	5353.651	5217.567	5175.814
59.0	5301.073	5280.970	5250.042	5106.226	5062.927
59.5	5195.917	5177.361	5146.433	4996.431	4951.586
60.0	5092.308	5072.205	5041.277	4885.090	4854.162
60.5	4987.153	4967.050	4939.214	4775.296	4731.996
61.0	4881.997	4861.894	4837.152	4665.501	4602.098
61.5	4776.842	4758.285	4731.996	4554.160	4484.572
62.0	4673.233	4651.583	4626.841	4442.819	4368.591
62.5	4566.531	4546.428	4521.685	4333.024	4251.065
63.0	4461.376	4442.819	4418.076	4221.683	4135.084
63.5	4354.674	4337.663	4316.014	4113.435	4017.558
64.0	4247.972	4234.054	4212.405	4003.640	3901.577
64.5	4142.816	4130.445	4107.249	3895.392	3785.597
65.0	4039.207	4026.836	4002.094	3785.597	3671.163
65.5	3935.598	3923.227	3900.031	3677.349	3558.276
66.0	3831.989	3819.618	3796.422	3569.100	3445.388
66.5	3728.380	3719.102	3692.813	3460.852	3332.501
67.0	3624.771	3617.039	3589.204	3343.325	3221.160
67.5	3522.708	3514.976	3485.595	3239.716	3111.365
68.0	3420.646	3412.914	3380.439	3136.107	3001.570
68.5	3320.129	3312.397	3276.830	3029.405	2893.322
69.0	3219.613	3210.335	3171.675	2921.157	2785.074
69.5	3120.643	3111.365	3068.066	2814.455	2679.918
70.0	3021.673	3010.849	2964.456	2707.753	2574.763
70.5	2924.250	2910.332	2860.847	2602.598	2471.154
71.0	2826.827	2809.816	2758.785	2497.442	2369.091
71.5	2729.403	2712.393	2656.722	2395.380	2267.028
72.0	2633.526	2613.423	2554.659	2293.317	2168.058
72.5	2537.649	2515.999	2454.143	2192.801	2070.635
73.0	2443.318	2418.576	2356.720	2093.831	1973.212
73.5	2348.988	2322.699	2257.750	1996.408	1878.881
74.0	2253.111	2226.822	2160.326	1902.077	1784.550
74.5	2161.873	2132.491	2064.449	1807.746	1693.312
75.0	2067.542	2039.707	1970.119	1714.962	1603.621
75.5	1976.304	1946.923	1874.242	1623.724	1515.476
76.0	1886.613	1857.231	1781.457	1535.579	1431.970
76.5	1796.921	1767.540	1690.220	1448.981	1348.464
77.0	1708.776	1679.395	1598.982	1365.475	1263.412
77.5	1622.178	1594.343	1510.837	1283.515	1181.453
78.0	1537.126	1509.290	1422.692	1203.102	1110.318
78.5	1453.620	1425.784	1336.093	1125.782	1040.730
79.0	1371.660	1343.825	1252.587	1050.008	971.142
79.5	1291.247	1263.412	1169.081	975.781	903.100
80.0	1212.381	1184.545	1087.122	904.646	838.151
80.5	1135.061	1108.772	1008.255	841.244	774.748
81.0	1060.833	1032.998	929.389	780.934	715.985
81.5	988.152	958.770	853.615	709.799	660.315
82.0	915.471	887.636	782.480	647.943	606.190
82.5	844.337	816.501	712.892	590.726	553.613

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**CANDELA TABULATION - (Cont.)**

83.0	774.748	746.913	646.397	536.602	504.128
83.5	708.253	680.418	581.448	485.571	457.736
84.0	641.758	615.469	519.592	437.632	414.436
84.5	576.809	550.520	462.375	391.240	372.683
85.0	513.406	488.664	408.251	349.487	332.477
85.5	450.004	428.354	357.219	307.734	292.270
86.0	389.694	371.137	310.827	267.528	252.064
86.5	327.838	313.920	264.435	228.868	218.043
87.0	269.074	259.796	221.136	197.940	190.208
87.5	213.404	210.311	182.476	170.104	165.465
88.0	162.372	163.919	151.548	140.723	139.176
88.5	115.980	123.712	120.620	119.073	117.527
89.0	72.681	89.691	97.423	103.609	103.609
89.5	43.299	63.403	78.867	89.691	89.691
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-L360-850-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-L360-850-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-L360-850-HA-ND-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	5495.31	N.A.	15.40
0-30	11155.61	N.A.	31.30
0-40	17532.59	N.A.	49.20
0-60	29205.63	N.A.	82.00
0-80	35101.6	N.A.	98.60
0-90	35600.38	N.A.	100.00
10-90	34132.54	N.A.	95.90
20-40	12037.28	N.A.	33.80
20-50	18304.73	N.A.	51.40
40-70	15552.26	N.A.	43.70
60-80	5895.98	N.A.	16.60
70-80	2016.75	N.A.	5.70
80-90	498.78	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	35600.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1467.83
10-20	4027.47
20-30	5660.3
30-40	6376.98
40-50	6267.45
50-60	5405.59
60-70	3879.23
70-80	2016.75
80-90	498.78
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-L360-850-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-L360-850-HA-ND-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

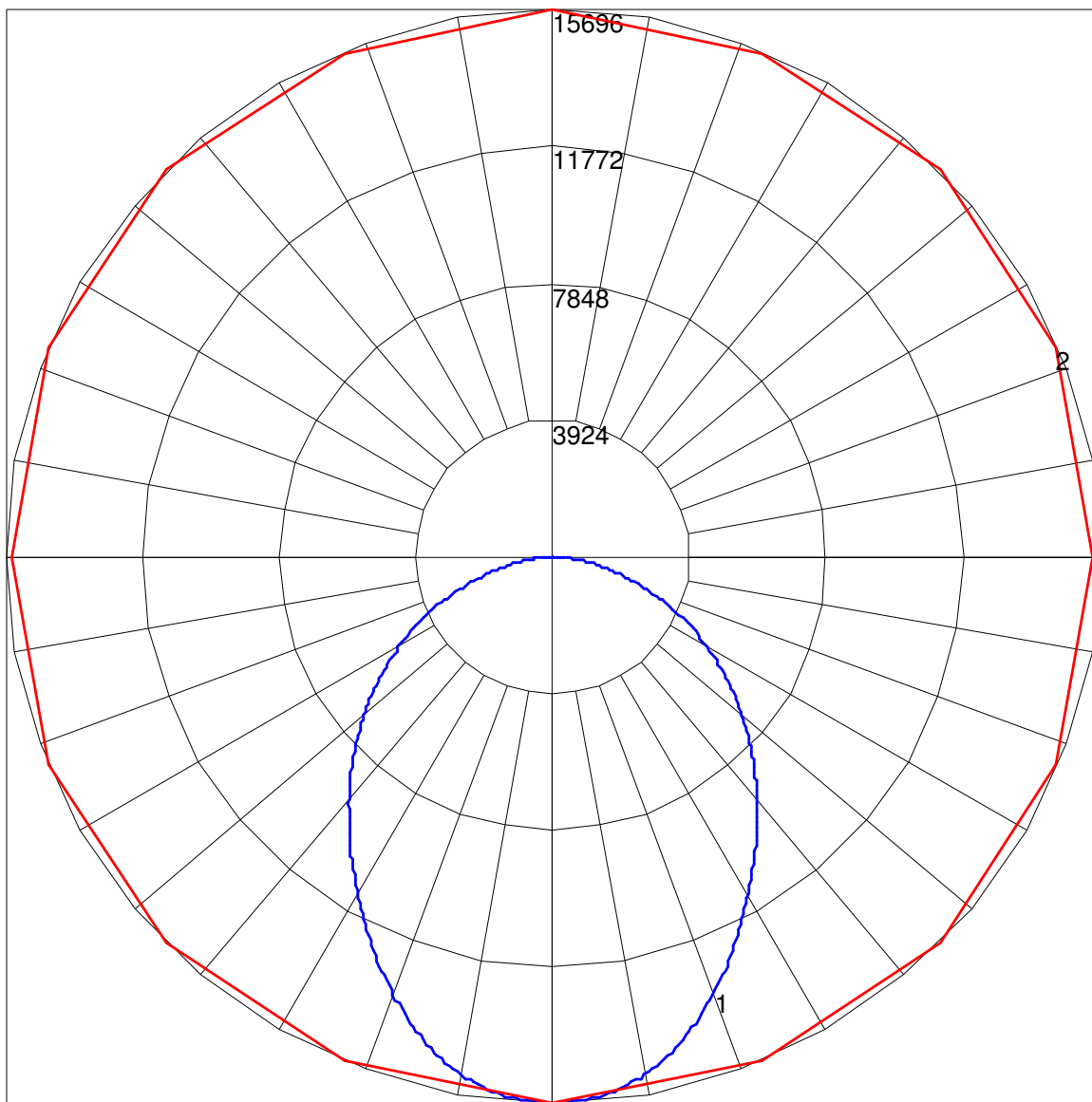
Reflectances

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	23.7	25.3	24.1	25.6	25.9	23.5	25.1	23.8	25.4	25.7
	3H	25.4	26.8	25.7	27.1	27.5	24.9	26.4	25.3	26.7	27.0
	4H	26.0	27.3	26.4	27.7	28.0	25.4	26.7	25.8	27.1	27.4
	6H	26.4	27.6	26.8	28.0	28.4	25.6	26.9	26.1	27.2	27.6
	8H	26.5	27.7	26.9	28.1	28.5	25.7	26.9	26.1	27.3	27.7
	12H	26.6	27.7	27.0	28.1	28.6	25.7	26.9	26.2	27.2	27.7
4H	2H	24.3	25.6	24.7	26.0	26.3	24.1	25.4	24.5	25.8	26.2
	3H	26.1	27.3	26.6	27.7	28.1	25.8	26.9	26.2	27.3	27.7
	4H	26.9	27.9	27.3	28.3	28.7	26.3	27.3	26.7	27.7	28.2
	6H	27.4	28.3	27.9	28.7	29.2	26.7	27.5	27.1	28.0	28.4
	8H	27.6	28.4	28.0	28.9	29.3	26.7	27.6	27.2	28.0	28.5
	12H	27.7	28.5	28.2	28.9	29.4	26.8	27.5	27.3	28.0	28.5
8H	4H	27.1	27.9	27.6	28.4	28.8	26.6	27.4	27.1	27.9	28.3
	6H	27.8	28.4	28.3	28.9	29.4	27.0	27.7	27.5	28.2	28.7
	8H	28.0	28.6	28.5	29.1	29.6	27.2	27.8	27.7	28.3	28.8
	12H	28.2	28.7	28.7	29.2	29.8	27.3	27.8	27.8	28.3	28.9
12H	4H	27.1	27.9	27.6	28.3	28.8	26.6	27.4	27.1	27.8	28.3
	6H	27.8	28.4	28.3	28.9	29.4	27.1	27.7	27.6	28.2	28.7
	8H	28.1	28.6	28.6	29.1	29.7	27.3	27.8	27.8	28.3	28.9

Maximum UGR = 29.8

POLAR GRAPH



Maximum Candela = 15696.001 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.)