



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L360-850-HA-MD-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14629546.02
[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-MD-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	35229
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	232
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.28
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	33231	32290	28235
55	25094	23534	19881
65	19497	17631	16406
75	18777	15336	16516
85	16787	11386	12651

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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	15926.705	15926.705	15926.705	15926.705	15926.705
0.5	15787.540	15911.242	15957.631	15926.705	15942.168
1.0	15787.540	15911.242	15957.631	15911.242	15942.168
1.5	15787.540	15911.242	15957.631	15911.242	15942.168
2.0	15772.077	15911.242	15942.168	15895.780	15926.705
2.5	15772.077	15895.780	15942.168	15895.780	15911.242
3.0	15756.614	15880.317	15926.705	15880.317	15895.780
3.5	15756.614	15880.317	15911.242	15864.854	15895.780
4.0	15741.151	15864.854	15895.780	15849.391	15880.317
4.5	15725.688	15849.391	15880.317	15833.928	15864.854
5.0	15725.688	15833.928	15880.317	15833.928	15849.391
5.5	15710.226	15818.465	15864.854	15818.465	15833.928
6.0	15694.763	15803.003	15849.391	15803.003	15818.465
6.5	15679.300	15803.003	15833.928	15787.540	15803.003
7.0	15663.837	15772.077	15818.465	15772.077	15787.540
7.5	15632.912	15756.614	15803.003	15756.614	15772.077
8.0	15617.449	15741.151	15787.540	15741.151	15756.614
8.5	15601.986	15725.688	15772.077	15725.688	15725.688
9.0	15571.060	15694.763	15741.151	15710.226	15710.226
9.5	15555.597	15679.300	15725.688	15679.300	15694.763
10.0	15524.672	15663.837	15710.226	15663.837	15663.837
10.5	15493.746	15632.912	15679.300	15632.912	15648.374
11.0	15478.283	15601.986	15648.374	15601.986	15617.449
11.5	15448.904	15571.060	15617.449	15571.060	15586.523
12.0	15421.071	15540.135	15586.523	15540.135	15555.597
12.5	15391.692	15509.209	15555.597	15509.209	15524.672
13.0	15359.220	15478.283	15524.672	15478.283	15493.746
13.5	15322.109	15436.534	15493.746	15439.626	15462.821
14.0	15284.998	15399.423	15445.811	15404.062	15427.256
14.5	15244.795	15360.766	15405.608	15366.951	15393.238
15.0	15203.045	15323.655	15365.405	15326.748	15357.673
15.5	15158.203	15281.906	15322.109	15286.544	15322.109
16.0	15113.361	15238.610	15275.720	15246.341	15281.906
16.5	15066.972	15193.767	15230.878	15204.591	15240.156
17.0	15019.038	15145.833	15182.943	15159.749	15195.314
17.5	14968.010	15094.805	15136.555	15114.907	15148.925
18.0	14915.437	15043.778	15090.167	15066.972	15100.991
18.5	14865.956	14991.205	15040.686	15017.491	15046.871
19.0	14813.382	14938.631	14991.205	14966.464	14995.843
19.5	14762.355	14882.965	14940.177	14913.890	14941.723
20.0	14708.235	14825.752	14881.418	14862.863	14890.696
20.5	14649.476	14763.901	14818.021	14811.836	14833.484
21.0	14589.171	14697.411	14748.438	14757.716	14777.818
21.5	14527.320	14630.921	14689.680	14698.957	14719.059
22.0	14462.376	14564.431	14627.828	14640.198	14660.300
22.5	14392.793	14493.302	14558.246	14576.801	14596.903
23.0	14321.664	14422.173	14485.570	14510.311	14528.866
23.5	14247.443	14349.497	14412.895	14440.728	14460.830
24.0	14168.582	14272.183	14335.581	14368.053	14391.247
24.5	14091.268	14193.323	14259.813	14292.285	14320.118
25.0	14010.862	14114.463	14184.045	14213.425	14245.897
25.5	13925.816	14029.417	14103.639	14131.472	14170.129
26.0	13842.317	13947.464	14023.232	14046.426	14088.176
26.5	13757.271	13859.326	13938.186	13961.381	14004.677

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CANDELA TABULATION - (Cont.)

27.0	13667.58713772.73413851.59513871.69613918.085
27.5	13576.35613683.05013761.91013780.46613828.400
28.0	13480.48713590.27313669.13313684.59613734.077
28.5	13384.61713494.40313571.71813587.18013635.115
29.0	13276.37813395.44113472.75613485.12613531.514
29.5	13172.77713293.38713370.70113379.97913423.275
30.0	13066.08313188.24013264.00713270.19313310.396
30.5	12954.75113081.54613152.67513154.22113189.786
31.0	12840.32612971.76013039.79713027.42613062.991
31.5	12724.35512860.42812920.73312894.44612928.464
32.0	12608.38412749.09612803.21512772.29012807.854
32.5	12486.22812628.48612679.51312640.85612674.874
33.0	12367.16412507.87612552.71812497.05212487.774
33.5	12241.91512381.08012419.73712351.70112316.137
34.0	12115.12012249.64612285.21112197.07312141.407
34.5	11989.87112116.66612146.04612033.16711960.492
35.0	11855.34511982.14012002.24111864.62211770.299
35.5	11720.81811844.52111852.25211688.34611569.282
36.0	11580.10611700.71611697.62411504.33811363.627
36.5	11436.30211552.27311535.26411311.05311150.240
37.0	11289.40511400.73811369.81211114.67510933.760
37.5	11139.41611246.10911199.72110909.02010712.642
38.0	10983.24111089.93511028.08410703.36410485.339
38.5	10823.97410929.12210850.26110491.52410258.035
39.0	10661.61510766.76210669.34610275.04410024.547
39.5	10494.61610602.85610483.79210057.0189792.604
40.0	10326.07210435.85810295.1469837.446 9559.116
40.5	10152.88810267.31310101.8619614.782 9322.534
41.0	9978.158 10095.6769908.575 9393.663 9072.037
41.5	9804.974 9920.946 9712.198 9169.453 8815.354
42.0	9628.698 9744.669 9511.181 8949.881 8601.967
42.5	9452.422 9566.847 9313.257 8745.771 8388.580
43.0	9274.600 9387.478 9115.333 8524.653 8164.369
43.5	9096.777 9205.017 8917.409 8289.618 7937.066
44.0	8918.955 9022.556 8717.938 8077.777 7712.855
44.5	8742.679 8837.002 8518.468 7864.391 7496.375
45.0	8567.949 8649.902 8325.183 7655.642 7279.896
45.5	8390.126 8465.894 8128.805 7449.987 7068.055
46.0	8212.304 8281.887 7935.519 7248.970 6863.946
46.5	8039.120 8096.333 7746.873 7054.139 6666.022
47.0	7864.391 7913.872 7556.680 6862.400 6472.737
47.5	7689.661 7732.957 7371.127 6673.753 6287.183
48.0	7518.023 7552.042 7187.119 6491.292 6107.814
48.5	7346.386 7375.765 7004.658 6313.470 5933.084
49.0	7174.749 7201.036 6826.835 6137.193 5766.086
49.5	7001.565 7026.306 6652.105 5968.649 5605.272
50.0	6831.474 6854.668 6478.922 5803.197 5450.644
50.5	6664.476 6684.577 6307.284 5640.837 5299.109
51.0	6499.023 6517.579 6141.832 5486.209 5153.758
51.5	6332.025 6353.673 5976.380 5325.395 5016.139
52.0	6171.212 6191.313 5817.113 5180.045 4880.066
52.5	6008.852 6032.046 5665.577 5042.426 4750.178
53.0	5849.585 5874.326 5520.227 4906.353 4624.930
53.5	5693.411 5718.151 5360.960 4773.373 4502.773
54.0	5541.875 5565.069 5206.332 4643.485 4385.256
54.5	5393.432 5415.080 5060.981 4518.236 4270.831

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CANDELA TABULATION - (Cont.)

55.0	5248.081	5266.637	4921.816	4396.080	4157.952
55.5	5102.731	5119.740	4784.197	4277.016	4049.713
56.0	4965.112	4977.482	4649.670	4161.045	3944.566
56.5	4829.039	4836.770	4518.236	4049.713	3842.511
57.0	4694.512	4699.151	4389.895	3939.927	3742.003
57.5	4566.171	4564.625	4264.646	3833.233	3644.587
58.0	4442.468	4434.737	4142.490	3729.632	3550.264
58.5	4320.312	4306.396	4021.880	3629.124	3459.033
59.0	4201.248	4182.693	3904.362	3530.162	3370.895
59.5	4083.731	4060.537	3789.937	3434.292	3284.303
60.0	3972.399	3941.473	3678.605	3343.062	3202.350
60.5	3862.613	3828.594	3570.365	3251.831	3123.490
61.0	3755.919	3717.262	3463.672	3165.239	3044.629
61.5	3650.772	3609.022	3360.071	3080.194	2970.408
62.0	3550.264	3505.421	3259.563	2999.787	2899.279
62.5	3452.848	3404.913	3162.147	2920.927	2831.242
63.0	3356.978	3310.590	3066.277	2843.613	2766.299
63.5	3259.563	3220.906	2975.047	2769.391	2702.901
64.0	3148.230	3118.851	2886.909	2698.262	2642.596
64.5	3077.101	3032.259	2800.317	2630.226	2583.837
65.0	3004.426	2948.760	2716.818	2563.736	2528.171
65.5	2922.473	2866.807	2636.411	2500.338	2474.051
66.0	2846.705	2777.123	2559.097	2436.941	2421.478
66.5	2770.937	2698.262	2483.329	2376.636	2370.450
67.0	2699.808	2622.494	2409.107	2317.877	2320.969
67.5	2630.226	2548.273	2339.525	2260.664	2271.488
68.0	2563.736	2477.144	2271.488	2204.998	2223.554
68.5	2498.792	2407.561	2204.998	2150.878	2175.619
69.0	2436.941	2339.525	2140.054	2096.758	2129.230
69.5	2378.182	2273.035	2078.203	2044.185	2082.842
70.0	2319.423	2208.091	2016.352	1993.158	2038.000
70.5	2262.211	2144.693	1957.593	1940.584	1991.611
71.0	2206.544	2082.842	1897.288	1889.557	1946.769
71.5	2150.878	2020.991	1840.076	1838.529	1900.381
72.0	2098.305	1959.139	1782.863	1787.502	1853.992
72.5	2044.185	1898.834	1721.012	1734.928	1806.057
73.0	1991.611	1838.529	1665.346	1683.901	1758.123
73.5	1940.584	1778.224	1612.772	1629.781	1710.188
74.0	1889.557	1717.919	1557.106	1577.208	1660.707
74.5	1827.705	1657.614	1499.894	1523.088	1609.680
75.0	1772.039	1597.309	1447.320	1468.968	1558.652
75.5	1714.827	1538.551	1394.746	1413.302	1504.532
76.0	1656.068	1478.246	1331.349	1359.182	1451.959
76.5	1597.309	1417.941	1274.136	1303.516	1396.293
77.0	1537.004	1359.182	1216.924	1247.850	1340.627
77.5	1476.699	1298.877	1159.712	1192.183	1283.414
78.0	1413.302	1240.118	1104.045	1134.971	1224.655
78.5	1348.358	1179.813	1046.833	1079.305	1165.897
79.0	1284.960	1121.054	991.167	1023.639	1105.592
79.5	1221.563	1060.749	932.408	966.426	1045.287
80.0	1156.619	1001.991	876.742	910.760	984.982
80.5	1091.675	943.232	821.076	855.094	923.130
81.0	1026.731	884.473	765.410	799.428	862.825
81.5	963.334	827.261	709.743	745.308	800.974
82.0	899.936	771.595	655.624	691.188	740.669
82.5	836.539	714.382	601.504	638.614	681.910

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CANDELA TABULATION - (Cont.)

83.0	774.687	654.077	550.476	586.041	623.152
83.5	712.836	604.596	500.995	535.014	567.486
84.0	652.531	556.662	451.514	483.986	510.273
84.5	592.226	502.542	405.126	436.052	456.153
85.0	533.467	454.607	361.830	388.117	402.033
85.5	476.255	408.218	318.534	343.275	352.552
86.0	417.496	360.284	278.331	299.979	301.525
86.5	361.830	313.895	241.220	253.590	256.683
87.0	306.164	267.507	204.109	210.294	211.841
87.5	252.044	221.118	168.545	170.091	170.091
88.0	197.924	179.369	136.073	132.980	132.980
88.5	145.351	142.258	106.693	102.055	97.416
89.0	102.055	109.786	81.953	75.768	71.129
89.5	69.583	81.953	58.759	54.120	54.120
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-MD-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-MD-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-MD-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5829.9	N.A.	16.50
0-30	12342.08	N.A.	35.00
0-40	19734.19	N.A.	56.00
0-60	30365.36	N.A.	86.20
0-80	34746.6	N.A.	98.60
0-90	35228.88	N.A.	100.00
10-90	33723.12	N.A.	95.70
20-40	13904.29	N.A.	39.50
20-50	20187.12	N.A.	57.30
40-70	13388.92	N.A.	38.00
60-80	4381.23	N.A.	12.40
70-80	1623.48	N.A.	4.60
80-90	482.28	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	35228.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1505.75
10-20	4324.15
20-30	6512.18
30-40	7392.12
40-50	6282.83
50-60	4348.34
60-70	2757.75
70-80	1623.48
80-90	482.28
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-MD-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	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-4-L360-850-HA-MD-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

X=2H	Y=2H	22.4	23.9	22.8	24.2	24.6	21.2	22.7	21.5	23.0	23.3
	3H	23.9	25.2	24.2	25.5	25.9	22.7	24.1	23.1	24.4	24.8
	4H	24.5	25.8	24.9	26.1	26.5	23.4	24.7	23.8	25.1	25.4
	6H	25.1	26.2	25.5	26.6	27.0	24.0	25.2	24.4	25.5	25.9
	8H	25.2	26.4	25.7	26.7	27.1	24.2	25.3	24.6	25.7	26.1
	12H	25.4	26.4	25.8	26.8	27.3	24.3	25.4	24.8	25.8	26.2

UGR Viewed Endwise

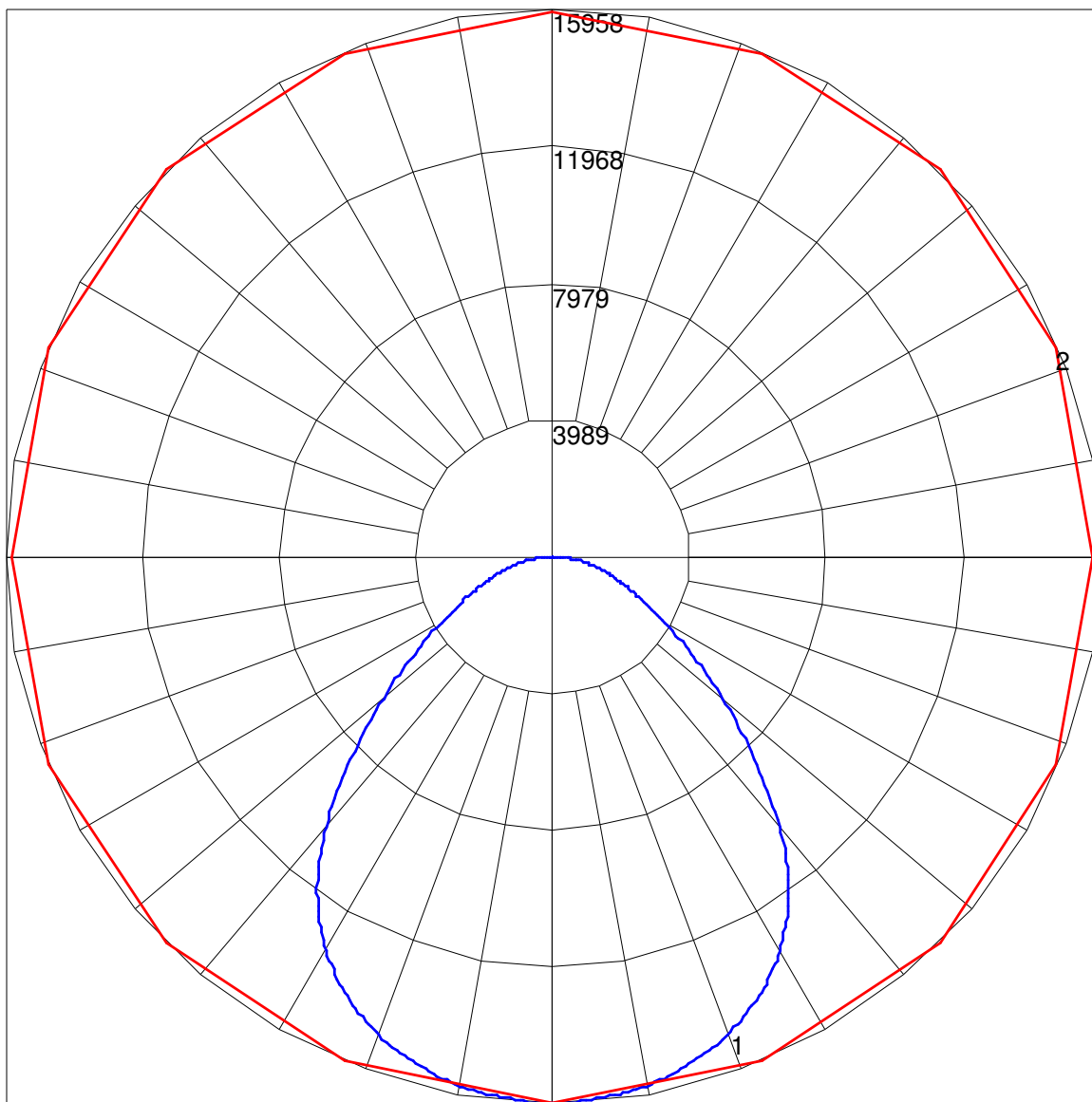
4H	2H	22.8	24.0	23.2	24.4	24.8	21.7	23.0	22.1	23.3	23.7
	3H	24.5	25.5	24.9	25.9	26.3	23.5	24.6	23.9	25.0	25.4
	4H	25.3	26.2	25.7	26.6	27.0	24.4	25.3	24.8	25.7	26.2
	6H	25.9	26.8	26.4	27.2	27.7	25.1	25.9	25.5	26.3	26.8
	8H	26.2	27.0	26.7	27.4	27.9	25.3	26.1	25.8	26.5	27.0
	12H	26.4	27.1	26.9	27.6	28.0	25.5	26.1	25.9	26.6	27.1

8H	4H	25.4	26.2	25.9	26.7	27.1	24.7	25.4	25.1	25.9	26.3
	6H	26.3	26.9	26.8	27.4	27.9	25.5	26.1	26.0	26.6	27.1
	8H	26.6	27.2	27.1	27.7	28.2	25.8	26.4	26.3	26.9	27.4
	12H	26.9	27.4	27.4	27.9	28.4	26.0	26.5	26.5	27.0	27.6

12H	4H	25.5	26.2	26.0	26.6	27.1	24.7	25.4	25.2	25.9	26.3
	6H	26.3	26.9	26.8	27.3	27.9	25.5	26.1	26.1	26.6	27.1
	8H	26.7	27.2	27.2	27.7	28.2	25.9	26.4	26.4	26.9	27.5

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 15957.631 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.)