

IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L360-835-HP-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14617179.01
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 1/20/2025
[TEST DATE] 1/6/2023
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] GS-4-L360-835-HP-DIM-UNV
[LUMINAIRE] White aluminum housing, prismatic lense enclosure
[LAMP] 448 White LEDs
[BALLAST] 0-10V LED DRIVER

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	36320
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	232
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
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	35952	37065	37735
55	34411	35797	25748
65	31213	21831	7077
75	25552	7024	7114
85	11203	9629	8967

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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	13768.034	13768.034	13768.034	13768.034	13768.034
0.5	13597.951	13776.682	13806.951	13785.330	13812.716
1.0	13602.275	13778.123	13808.392	13785.330	13811.275
1.5	13608.041	13776.682	13809.833	13781.006	13806.951
2.0	13606.599	13779.565	13806.951	13782.447	13808.392
2.5	13603.717	13776.682	13808.392	13779.565	13804.068
3.0	13602.275	13770.916	13805.509	13781.006	13806.951
3.5	13597.951	13762.268	13804.068	13781.006	13806.951
4.0	13587.861	13757.944	13799.744	13786.771	13809.833
4.5	13574.889	13749.296	13793.978	13789.654	13812.716
5.0	13557.592	13739.206	13789.654	13786.771	13808.392
5.5	13544.620	13730.558	13783.889	13782.447	13802.627
6.0	13534.530	13721.909	13776.682	13772.358	13791.096
6.5	13520.117	13708.937	13769.475	13762.268	13775.240
7.0	13501.379	13694.523	13755.061	13747.854	13756.503
7.5	13485.524	13681.551	13742.089	13729.116	13736.323
8.0	13471.110	13665.696	13723.351	13708.937	13717.585
8.5	13463.903	13648.399	13706.054	13688.758	13703.172
9.0	13452.372	13629.661	13687.316	13668.579	13685.875
9.5	13436.517	13615.248	13671.461	13654.165	13672.903
10.0	13419.220	13602.275	13654.165	13636.868	13655.606
10.5	13403.365	13587.861	13633.985	13615.248	13635.427
11.0	13386.069	13573.448	13610.923	13590.744	13613.806
11.5	13371.655	13557.592	13587.861	13567.682	13580.655
12.0	13344.269	13537.413	13569.123	13537.413	13537.413
12.5	13314.000	13517.234	13543.179	13497.055	13502.820
13.0	13283.731	13494.172	13515.793	13456.696	13465.344
13.5	13252.021	13462.462	13488.406	13422.103	13423.544
14.0	13217.427	13432.193	13459.579	13383.186	13384.627
14.5	13171.303	13401.924	13424.986	13344.269	13351.476
15.0	13138.152	13371.655	13391.834	13305.351	13325.531
15.5	13119.414	13338.503	13352.917	13267.876	13299.586
16.0	13092.028	13301.027	13314.000	13234.724	13267.876
16.5	13063.200	13266.434	13267.876	13201.572	13239.048
17.0	13044.462	13230.400	13227.517	13168.421	13205.896
17.5	13014.193	13195.807	13184.276	13130.945	13174.186
18.0	12979.600	13155.448	13138.152	13096.352	13136.710
18.5	12942.124	13116.531	13097.793	13054.552	13087.704
19.0	12897.442	13079.055	13047.345	13011.311	13041.579
19.5	12848.435	13040.138	12999.780	12969.511	13004.104
20.0	12802.311	13001.221	12953.655	12924.828	12963.745
20.5	12757.628	12959.421	12911.856	12881.587	12923.387
21.0	12714.387	12914.738	12868.614	12841.228	12880.145
21.5	12663.939	12870.056	12823.932	12800.870	12832.580
22.0	12614.932	12825.373	12779.249	12757.628	12785.014
22.5	12573.132	12777.807	12731.683	12712.946	12741.773
23.0	12531.332	12728.801	12678.352	12661.056	12689.883
23.5	12489.532	12674.028	12626.463	12614.932	12643.759
24.0	12437.643	12625.022	12570.249	12568.808	12593.311
24.5	12392.960	12576.015	12512.594	12516.918	12545.746
25.0	12343.953	12515.477	12450.615	12469.353	12490.973
25.5	12287.739	12465.029	12395.843	12416.022	12439.084
26.0	12222.877	12414.580	12342.512	12362.691	12381.429
26.5	12152.250	12348.277	12290.622	12306.477	12325.215

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27.0	12087.38812283.41512234.40812251.70512269.001
27.5	12023.96712215.67012182.51912196.93312214.229
28.0	11963.42912147.92612126.30512145.04312159.457
28.5	11911.54012080.18112067.20912088.82912100.360
29.0	11853.88512013.87812006.67112022.52612042.705
29.5	11796.23011947.57411946.13311961.98811990.816
30.0	11738.57511874.06411881.27111898.56711930.278
30.5	11680.92011806.31911822.17511833.70611875.505
31.0	11618.94011731.36811763.07811773.16811814.968
31.5	11549.75411657.85811701.09911711.18811754.430
32.0	11477.68511591.55411636.23711647.76811691.009
32.5	11402.73411520.92711574.25811591.55411624.706
33.0	11324.89911451.74111518.04411529.57511564.168
33.5	11249.94811378.23011453.18211466.15411509.396
34.0	11173.55511300.39611382.55511399.85111445.975
34.5	11101.48611224.00311310.48611333.54811379.672
35.0	11035.18311144.72711231.21011268.68611309.044
35.5	10973.20311065.45211140.40311200.94111245.624
36.0	10898.25210980.41011066.89311133.19611179.320
36.5	10820.41710895.36910996.26511062.56911108.693
37.0	10731.05210810.32810918.43110993.38311039.507
37.5	10634.48010726.72810839.15510924.19710965.997
38.0	10542.23210644.56910768.52810852.12810889.604
38.5	10448.54210560.97010700.78310777.17610806.004
39.0	10366.38410477.37010621.50710696.45910728.169
39.5	10288.54910388.00410533.58310611.41810651.776
40.0	10207.83210294.31510445.65910530.70110572.501
40.5	10124.23210200.62510362.06010448.54210497.549
41.0	10046.39810106.93610277.01810359.17710421.156
41.5	9951.267 10011.80510186.21210277.01810333.232
42.0	9846.047 9918.115 10093.96310189.09410243.867
42.5	9732.178 9822.985 10000.27410101.17010155.943
43.0	9621.192 9726.412 9910.909 10013.24610070.901
43.5	9517.413 9624.075 9818.660 9923.881 9987.302
44.0	9425.164 9527.502 9735.061 9837.398 9909.467
44.5	9348.772 9432.371 9645.695 9759.564 9825.867
45.0	9269.496 9331.475 9556.330 9678.847 9729.295
45.5	9183.013 9233.461 9459.758 9582.275 9641.371
46.0	9080.675 9132.565 9351.654 9475.613 9546.240
46.5	8975.455 9027.344 9237.785 9387.689 9455.433
47.0	8864.469 8926.448 9141.213 9296.882 9367.509
47.5	8765.014 8829.876 9044.641 9201.751 9273.820
48.0	8674.207 8736.186 8942.303 9110.944 9177.248
48.5	8584.842 8651.145 8841.407 9021.579 9061.937
49.0	8489.711 8534.393 8746.276 8929.331 8914.917
49.5	8387.373 8410.435 8652.586 8837.083 8744.835
50.0	8259.090 8306.656 8554.573 8737.628 8540.159
50.5	8142.339 8215.849 8449.352 8630.966 8290.801
51.0	8032.794 8107.746 8344.132 8501.242 8003.967
51.5	7937.663 8002.525 8234.587 8342.690 7728.664
52.0	7846.857 7888.657 8130.808 8158.194 7506.692
52.5	7743.077 7779.112 8025.587 7918.925 7296.251
53.0	7623.443 7660.919 7917.484 7645.064 6980.589
53.5	7500.926 7551.374 7813.705 7359.671 6555.383
54.0	7387.057 7451.919 7704.160 7118.961 6069.639
54.5	7291.926 7342.375 7593.174 6911.403 5667.495

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55.0	7196.796	7214.092	7486.512	6651.955	5384.985
55.5	7075.720	7095.899	7376.968	6282.963	5170.219
56.0	6944.555	7000.768	7270.306	5823.163	4961.220
56.5	6835.010	6899.872	7162.203	5395.074	4700.331
57.0	6742.762	6787.444	7048.334	5092.385	4436.559
57.5	6638.983	6662.045	6922.934	4876.179	4217.469
58.0	6519.348	6539.528	6788.886	4700.331	4081.980
58.5	6385.300	6422.776	6624.569	4485.565	3996.939
59.0	6277.197	6308.907	6435.749	4191.524	3926.311
59.5	6171.977	6186.390	6220.983	3947.932	3826.856
60.0	6036.487	6058.108	5967.301	3803.794	3694.249
60.5	5906.763	5948.563	5739.563	3718.753	3525.608
61.0	5790.012	5828.929	5524.798	3646.684	3316.609
61.5	5687.674	5704.970	5275.440	3541.463	3096.078
62.0	5565.157	5573.805	5004.461	3405.974	2875.547
62.5	5413.812	5441.198	4654.206	3228.685	2582.948
63.0	5281.205	5327.330	4259.269	3008.154	2143.328
63.5	5175.985	5214.902	3939.283	2794.830	1788.749
64.0	5047.702	5083.737	3721.636	2581.506	1578.308
64.5	4925.185	4968.427	3555.877	2264.403	1385.307
65.0	4809.875	4850.234	3364.174	1849.287	1090.546
65.5	4657.089	4716.186	3123.464	1562.453	944.967
66.0	4527.365	4592.227	2921.671	1387.325	912.392
66.5	4414.938	4479.800	2800.596	1129.319	897.401
67.0	4292.421	4354.400	2705.465	946.408	884.285
67.5	4164.138	4230.442	2606.010	880.249	871.312
68.0	4031.532	4118.014	2477.727	862.088	859.205
68.5	3916.221	3985.408	2296.114	847.674	847.386
69.0	3803.794	3865.773	2088.555	834.269	835.566
69.5	3678.394	3743.256	1911.266	821.729	823.459
70.0	3555.877	3629.387	1667.673	809.766	811.495
70.5	3437.684	3499.663	1355.183	797.514	799.964
71.0	3333.905	3364.174	1153.822	786.127	788.433
71.5	3214.271	3222.919	1001.901	774.740	775.461
72.0	3094.637	3073.016	828.071	761.912	762.921
72.5	2976.444	2881.313	742.165	749.660	749.516
73.0	2865.458	2680.961	719.824	737.264	734.958
73.5	2754.472	2509.437	704.978	724.004	720.256
74.0	2643.485	2327.824	690.420	709.734	704.113
74.5	2533.941	2128.914	676.727	694.311	688.113
75.0	2411.424	1875.232	662.889	678.600	671.393
75.5	2298.996	1697.942	649.629	662.457	653.953
76.0	2186.569	1568.218	636.800	645.737	636.224
76.5	2066.935	1426.387	622.963	628.585	617.918
77.0	1947.300	1275.907	609.126	611.000	599.757
77.5	1826.225	1177.893	594.280	593.271	581.019
78.0	1690.735	1058.403	578.857	574.965	562.281
78.5	1578.308	908.788	562.281	555.795	542.967
79.0	1478.853	793.334	545.561	537.057	524.085
79.5	1375.650	626.278	528.409	518.319	504.770
80.0	1271.439	538.354	510.680	499.005	485.023
80.5	1167.083	456.052	492.951	479.114	465.565
81.0	1061.142	428.089	474.501	459.367	447.980
81.5	956.642	410.648	455.187	439.908	431.116
82.0	862.520	392.487	435.008	420.161	408.630
82.5	778.488	374.181	414.828	400.559	388.739

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CANDELA TABULATION - (Cont.)

83.0	688.113	356.308	393.352	380.379	369.425
83.5	599.901	337.715	372.019	360.488	349.678
84.0	514.716	318.688	349.966	339.733	329.355
84.5	435.152	298.509	328.346	318.112	308.166
85.0	356.020	278.186	306.004	294.762	284.960
85.5	314.941	256.565	282.077	269.682	261.178
86.0	269.826	234.224	256.853	243.304	235.377
86.5	204.243	210.873	228.602	214.765	209.288
87.0	169.938	186.514	198.622	184.929	180.893
87.5	148.318	161.146	166.623	154.660	150.336
88.0	126.841	133.327	134.625	121.364	116.031
88.5	103.347	103.347	102.049	85.330	78.699
89.0	75.528	74.519	69.474	55.349	50.881
89.5	47.277	50.016	44.683	37.908	36.755
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-L360-835-HP-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-L360-835-HP-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-L360-835-HP-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5071.12	N.A.	14.00
0-30	10815.83	N.A.	29.80
0-40	17822.27	N.A.	49.10
0-60	31297.15	N.A.	86.20
0-80	35992.93	N.A.	99.10
0-90	36319.88	N.A.	100.00
10-90	35012.19	N.A.	96.40
20-40	12751.15	N.A.	35.10
20-50	20082.93	N.A.	55.30
40-70	16864.32	N.A.	46.40
60-80	4695.78	N.A.	12.90
70-80	1306.33	N.A.	3.60
80-90	326.95	N.A.	0.90
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	36319.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1307.69
10-20	3763.44
20-30	5744.71
30-40	7006.44
40-50	7331.78
50-60	6143.1
60-70	3389.45
70-80	1306.33
80-90	326.95
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-L360-835-HP-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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	50	62	55	50	61	54	49	59	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	43	53	48	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-4-L360-835-HP-DIM-UNV_.IES

UGR TABLE - CORRECTED

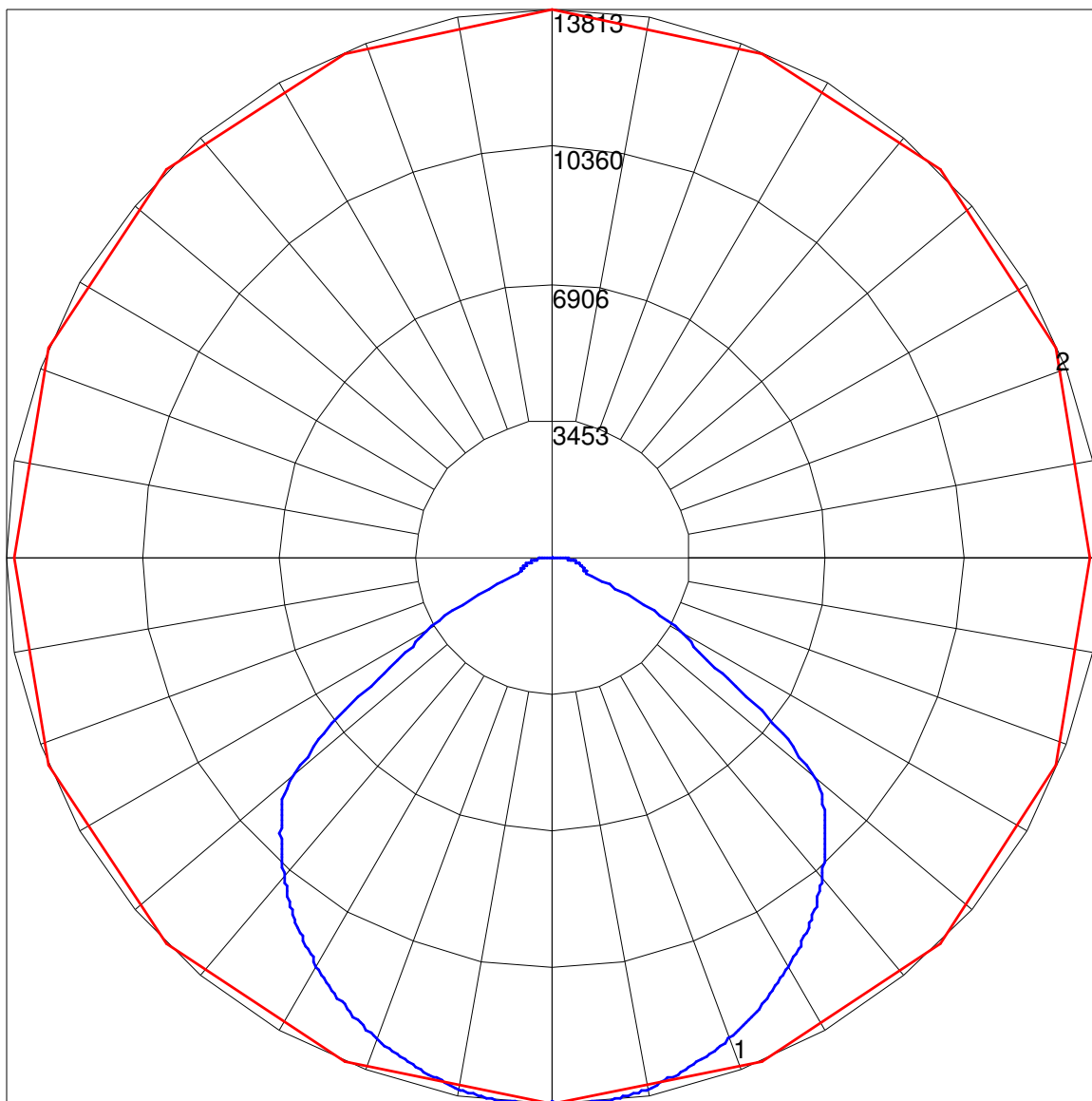
Reflectances

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	24.9	26.5	25.3	26.8	27.1	22.5	24.1	22.9	24.4	24.7
	3H	26.6	28.0	27.0	28.3	28.7	22.6	24.0	23.0	24.3	24.7
	4H	27.1	28.4	27.5	28.8	29.2	22.7	24.0	23.1	24.4	24.7
	6H	27.4	28.6	27.8	29.0	29.4	22.8	24.0	23.2	24.4	24.8
	8H	27.5	28.6	27.9	29.0	29.4	22.9	24.0	23.3	24.4	24.8
	12H	27.5	28.6	27.9	29.0	29.4	22.9	24.0	23.4	24.4	24.8
4H	2H	25.1	26.4	25.5	26.8	27.2	23.1	24.4	23.5	24.8	25.1
	3H	27.0	28.1	27.4	28.5	28.9	23.3	24.4	23.7	24.8	25.2
	4H	27.6	28.6	28.0	29.0	29.4	23.4	24.4	23.9	24.8	25.2
	6H	27.9	28.8	28.4	29.2	29.7	23.6	24.5	24.1	24.9	25.4
	8H	28.0	28.8	28.5	29.2	29.7	23.7	24.5	24.2	24.9	25.4
	12H	28.0	28.7	28.5	29.2	29.7	23.8	24.5	24.3	25.0	25.5
8H	4H	27.5	28.3	28.0	28.8	29.2	23.6	24.4	24.1	24.8	25.3
	6H	27.9	28.5	28.4	29.0	29.5	23.9	24.5	24.4	25.0	25.5
	8H	28.0	28.6	28.5	29.1	29.6	24.0	24.6	24.5	25.1	25.6
	12H	28.1	28.6	28.6	29.1	29.6	24.2	24.7	24.7	25.2	25.8
12H	4H	27.5	28.2	28.0	28.7	29.2	23.6	24.3	24.1	24.8	25.3
	6H	27.9	28.5	28.4	28.9	29.5	23.9	24.5	24.4	24.9	25.5
	8H	28.0	28.5	28.5	29.0	29.5	24.1	24.6	24.6	25.1	25.7

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 13812.716 Located At Horizontal Angle = 90, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)