



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L360-835-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-L360-835-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	33527
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
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	30010	29541	29739
55	27645	27352	26844
65	24685	24458	22436
75	20632	19660	16003
85	15214	12098	9853

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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	14752.541	14752.541	14752.541	14752.541	14752.541
0.5	14621.472	14752.541	14781.668	14752.541	14781.668
1.0	14606.909	14737.978	14781.668	14737.978	14781.668
1.5	14606.909	14737.978	14767.105	14737.978	14767.105
2.0	14592.346	14723.415	14752.541	14723.415	14752.541
2.5	14592.346	14708.852	14752.541	14708.852	14737.978
3.0	14577.783	14694.289	14737.978	14694.289	14723.415
3.5	14554.482	14679.725	14708.852	14665.162	14679.725
4.0	14538.462	14665.162	14694.289	14650.599	14679.725
4.5	14520.986	14650.599	14679.725	14621.472	14650.599
5.0	14500.598	14621.472	14665.162	14606.909	14621.472
5.5	14475.840	14606.909	14636.036	14577.783	14592.346
6.0	14448.170	14577.783	14606.909	14545.744	14577.783
6.5	14419.044	14542.831	14577.783	14512.248	14538.462
7.0	14384.092	14507.879	14538.462	14478.753	14503.510
7.5	14341.859	14468.559	14496.229	14437.976	14467.102
8.0	14303.994	14426.325	14452.539	14395.743	14424.869
8.5	14261.761	14379.723	14405.937	14352.053	14381.179
9.0	14213.702	14330.208	14354.966	14305.451	14334.577
9.5	14162.731	14276.324	14305.451	14255.936	14283.606
10.0	14104.478	14220.984	14248.654	14204.964	14231.178
10.5	14046.225	14159.818	14191.857	14149.624	14172.925
11.0	13983.603	14098.653	14130.692	14091.371	14110.303
11.5	13919.525	14034.575	14069.526	14030.206	14050.594
12.0	13852.534	13967.584	14001.079	13964.671	13982.147
12.5	13787.000	13896.224	13931.176	13899.137	13913.700
13.0	13720.009	13824.864	13856.903	13826.321	13842.340
13.5	13648.649	13750.592	13781.175	13746.223	13765.155
14.0	13572.921	13670.494	13703.990	13661.756	13689.426
14.5	13495.736	13588.940	13623.892	13587.484	13607.872
15.0	13414.182	13508.842	13540.882	13507.386	13526.318
15.5	13329.715	13425.832	13456.415	13420.007	13443.308
16.0	13245.248	13339.909	13366.123	13331.171	13354.472
16.5	13154.956	13255.442	13277.287	13243.792	13261.268
17.0	13061.752	13166.607	13195.733	13152.044	13166.607
17.5	12968.547	13076.315	13101.072	13058.839	13070.490
18.0	12876.799	12983.110	13003.499	12964.178	12974.372
18.5	12780.681	12891.362	12910.294	12868.061	12875.342
19.0	12686.021	12798.157	12814.177	12770.487	12774.856
19.5	12589.903	12703.496	12719.516	12670.001	12677.283
20.0	12495.242	12605.923	12621.942	12570.971	12579.709
20.5	12399.125	12509.806	12524.369	12470.485	12479.223
21.0	12300.095	12413.688	12428.252	12369.999	12380.193
21.5	12206.891	12314.658	12329.222	12269.512	12278.250
22.0	12107.861	12218.541	12230.192	12169.026	12179.221
22.5	12013.200	12122.424	12129.706	12068.540	12078.734
23.0	11917.083	12023.394	12027.763	11965.141	11973.879
23.5	11820.965	11925.820	11922.908	11858.830	11869.024
24.0	11726.304	11831.160	11818.053	11752.518	11765.625
24.5	11637.469	11730.673	11708.829	11646.207	11659.314
25.0	11542.808	11631.643	11601.061	11539.895	11557.371
25.5	11445.234	11531.157	11493.293	11436.496	11453.972
26.0	11350.573	11430.671	11385.525	11333.097	11354.942
26.5	11255.912	11328.728	11277.757	11228.242	11254.456

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CANDELA TABULATION - (Cont.)

27.0	11161.25111236.98011169.98911124.84311155.426
27.5	11065.13411149.60111063.67811019.98811056.396
28.0	10969.01711033.09510958.82310916.58910957.366
28.5	10874.35610932.60910853.96810814.64710859.793
29.0	10769.50110842.31710750.56910712.70410762.219
29.5	10673.38410738.91810648.62610613.67410664.646
30.0	10577.26610635.51910548.14010514.64510562.703
30.5	10484.06210537.94610449.11010418.52710463.673
31.0	10389.40110440.37210348.62410322.41010364.643
31.5	10297.65310342.79910248.13810224.83610264.157
32.0	10207.36110245.22510149.10810128.71910165.127
32.5	10115.61210150.56410050.07810034.05810069.010
33.0	10025.32010054.4479951.048 9936.485 9972.893
33.5	9936.485 9961.242 9852.018 9840.367 9879.688
34.0	9846.193 9865.125 9754.444 9742.794 9786.484
34.5	9755.901 9769.008 9645.220 9643.764 9691.823
35.0	9664.152 9674.347 9550.559 9544.734 9597.162
35.5	9573.861 9579.686 9457.355 9445.704 9502.501
36.0	9482.112 9485.025 9358.325 9348.131 9406.384
36.5	9390.364 9387.451 9260.751 9249.101 9311.723
37.0	9300.072 9291.334 9163.178 9150.071 9214.149
37.5	9221.431 9192.304 9062.692 9051.041 9118.032
38.0	9134.051 9094.731 8965.118 8952.011 9021.915
38.5	9016.089 8995.701 8867.544 8854.437 8927.254
39.0	8918.516 8895.214 8774.340 8756.864 8831.136
39.5	8820.942 8796.185 8682.591 8659.290 8733.563
40.0	8720.456 8695.698 8577.736 8561.717 8635.989
40.5	8621.426 8596.668 8475.794 8464.143 8538.416
41.0	8522.396 8499.095 8379.677 8366.570 8440.842
41.5	8423.366 8398.609 8283.559 8267.540 8341.812
42.0	8322.880 8299.579 8185.986 8168.510 8242.782
42.5	8225.306 8200.549 8091.325 8069.480 8146.665
43.0	8126.277 8101.519 7996.664 7971.906 8052.004
43.5	8028.703 8002.489 7900.547 7871.420 7955.887
44.0	7931.129 7904.916 7807.342 7772.390 7858.313
44.5	7833.556 7801.517 7711.225 7674.817 7763.652
45.0	7737.439 7696.662 7616.564 7575.787 7667.535
45.5	7641.321 7603.457 7521.903 7476.757 7567.049
46.0	7543.748 7505.883 7427.242 7377.727 7469.475
46.5	7450.543 7398.116 7331.125 7278.697 7368.989
47.0	7354.426 7307.824 7236.464 7179.667 7268.503
47.5	7256.852 7216.075 7140.347 7082.094 7168.017
48.0	7160.735 7118.502 7045.686 6983.064 7064.618
48.5	7064.618 7019.472 6949.568 6885.490 6962.675
49.0	6968.501 6921.898 6854.907 6786.460 6862.189
49.5	6872.383 6824.325 6760.247 6691.799 6758.790
50.0	6774.810 6725.295 6665.586 6595.682 6656.848
50.5	6677.236 6626.265 6572.381 6495.196 6554.905
51.0	6578.206 6528.691 6477.720 6396.166 6451.506
51.5	6480.633 6431.118 6384.515 6301.505 6349.564
52.0	6381.603 6335.001 6289.855 6203.932 6244.709
52.5	6279.660 6237.427 6196.650 6106.358 6139.853
53.0	6179.174 6139.853 6101.989 6010.241 6034.998
53.5	6080.144 6042.280 6007.328 5914.123 5930.143
54.0	5981.114 5946.163 5912.667 5818.006 5825.288
54.5	5882.084 5850.045 5816.550 5718.976 5720.433

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CANDELA TABULATION - (Cont.)

55.0	5781.598	5753.928	5720.433	5621.403	5614.121
55.5	5684.025	5656.354	5625.772	5520.917	5509.266
56.0	5584.995	5558.781	5528.198	5421.887	5404.411
56.5	5485.965	5461.207	5424.799	5321.400	5299.556
57.0	5386.935	5365.090	5322.857	5220.914	5193.244
57.5	5289.361	5267.517	5234.021	5118.972	5086.933
58.0	5190.331	5169.943	5139.360	5017.029	4982.077
58.5	5091.302	5072.369	5041.787	4913.630	4874.310
59.0	4992.272	4973.339	4944.213	4808.775	4767.998
59.5	4893.242	4875.766	4846.639	4705.376	4663.143
60.0	4795.668	4776.736	4747.610	4600.521	4571.395
60.5	4696.638	4677.706	4651.492	4497.122	4456.345
61.0	4597.608	4578.676	4555.375	4393.723	4334.014
61.5	4498.579	4481.103	4456.345	4288.868	4223.334
62.0	4401.005	4380.616	4357.315	4184.013	4114.110
62.5	4300.519	4281.587	4258.285	4080.614	4003.429
63.0	4201.489	4184.013	4160.712	3975.759	3894.205
63.5	4101.003	4084.983	4064.595	3873.816	3783.524
64.0	4000.516	3987.410	3967.021	3770.418	3674.300
64.5	3901.487	3889.836	3867.991	3668.475	3565.076
65.0	3803.913	3792.262	3768.961	3565.076	3457.308
65.5	3706.339	3694.689	3672.844	3463.134	3350.997
66.0	3608.766	3597.115	3575.270	3361.191	3244.685
66.5	3511.192	3502.454	3477.697	3259.249	3138.374
67.0	3413.619	3406.337	3380.123	3148.568	3033.519
67.5	3317.501	3310.220	3282.550	3050.994	2930.120
68.0	3221.384	3214.103	3183.520	2953.421	2826.721
68.5	3126.723	3119.442	3085.946	2852.935	2724.778
69.0	3032.062	3023.324	2986.916	2750.992	2622.836
69.5	2938.858	2930.120	2889.343	2650.506	2523.806
70.0	2845.653	2835.459	2791.769	2550.020	2424.776
70.5	2753.905	2740.798	2694.196	2450.990	2327.202
71.0	2662.157	2646.137	2598.078	2351.960	2231.085
71.5	2570.408	2554.389	2501.961	2255.843	2134.968
72.0	2480.116	2461.184	2405.844	2159.725	2041.763
72.5	2389.824	2369.436	2311.183	2065.065	1950.015
73.0	2300.989	2277.688	2219.435	1971.860	1858.267
73.5	2212.153	2187.396	2126.230	1880.112	1769.431
74.0	2121.861	2097.104	2034.482	1791.276	1680.596
74.5	2035.938	2008.268	1944.190	1702.440	1594.673
75.0	1947.102	1920.889	1855.354	1615.061	1510.206
75.5	1861.179	1833.509	1765.062	1529.138	1427.196
76.0	1776.713	1749.043	1677.683	1446.128	1348.554
76.5	1692.246	1664.576	1591.760	1364.574	1269.913
77.0	1609.236	1581.566	1505.837	1285.932	1189.815
77.5	1527.682	1501.468	1422.827	1208.747	1112.630
78.0	1447.584	1421.370	1339.816	1133.018	1045.639
78.5	1368.943	1342.729	1258.262	1060.202	980.105
79.0	1291.758	1265.544	1179.621	988.843	914.570
79.5	1216.029	1189.815	1100.979	918.939	850.492
80.0	1141.756	1115.543	1023.794	851.948	789.326
80.5	1068.940	1044.183	949.522	792.239	729.617
81.0	999.037	972.823	875.249	735.443	674.277
81.5	930.590	902.920	803.890	668.452	621.849
82.0	862.143	835.929	736.899	610.199	570.878
82.5	795.152	768.938	671.364	556.315	521.363

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CANDELA TABULATION - (Cont.)

83.0	729.617	703.404	608.743	505.344	474.761
83.5	666.995	640.782	547.577	457.285	431.071
84.0	604.374	579.616	489.324	412.139	390.294
84.5	543.208	518.451	435.440	368.449	350.974
85.0	483.499	460.198	384.469	329.129	313.109
85.5	423.790	403.401	336.410	289.808	275.245
86.0	366.993	349.517	292.721	251.944	237.380
86.5	308.740	295.633	249.031	215.536	205.341
87.0	253.400	244.662	208.254	186.409	179.128
87.5	200.972	198.060	171.846	160.195	155.826
88.0	152.914	154.370	142.720	132.525	131.069
88.5	109.224	116.506	113.593	112.137	110.680
89.0	68.447	84.467	91.748	97.574	97.574
89.5	40.777	59.709	74.272	84.467	84.467
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-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-L360-835-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-L360-835-HA-ND-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	5175.19	N.A.	15.40
0-30	10505.77	N.A.	31.30
0-40	16511.27	N.A.	49.20
0-60	27504.32	N.A.	82.00
0-80	33056.84	N.A.	98.60
0-90	33526.57	N.A.	100.00
10-90	32144.23	N.A.	95.90
20-40	11336.08	N.A.	33.80
20-50	17238.43	N.A.	51.40
40-70	14646.3	N.A.	43.70
60-80	5552.52	N.A.	16.60
70-80	1899.27	N.A.	5.70
80-90	469.72	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	33526.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1382.33
10-20	3792.86
20-30	5330.58
30-40	6005.5
40-50	5902.35
50-60	5090.7
60-70	3653.25
70-80	1899.27
80-90	469.72
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-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-L360-835-HA-ND-DIM-UNV_.IES

UGR TABLE - CORRECTED

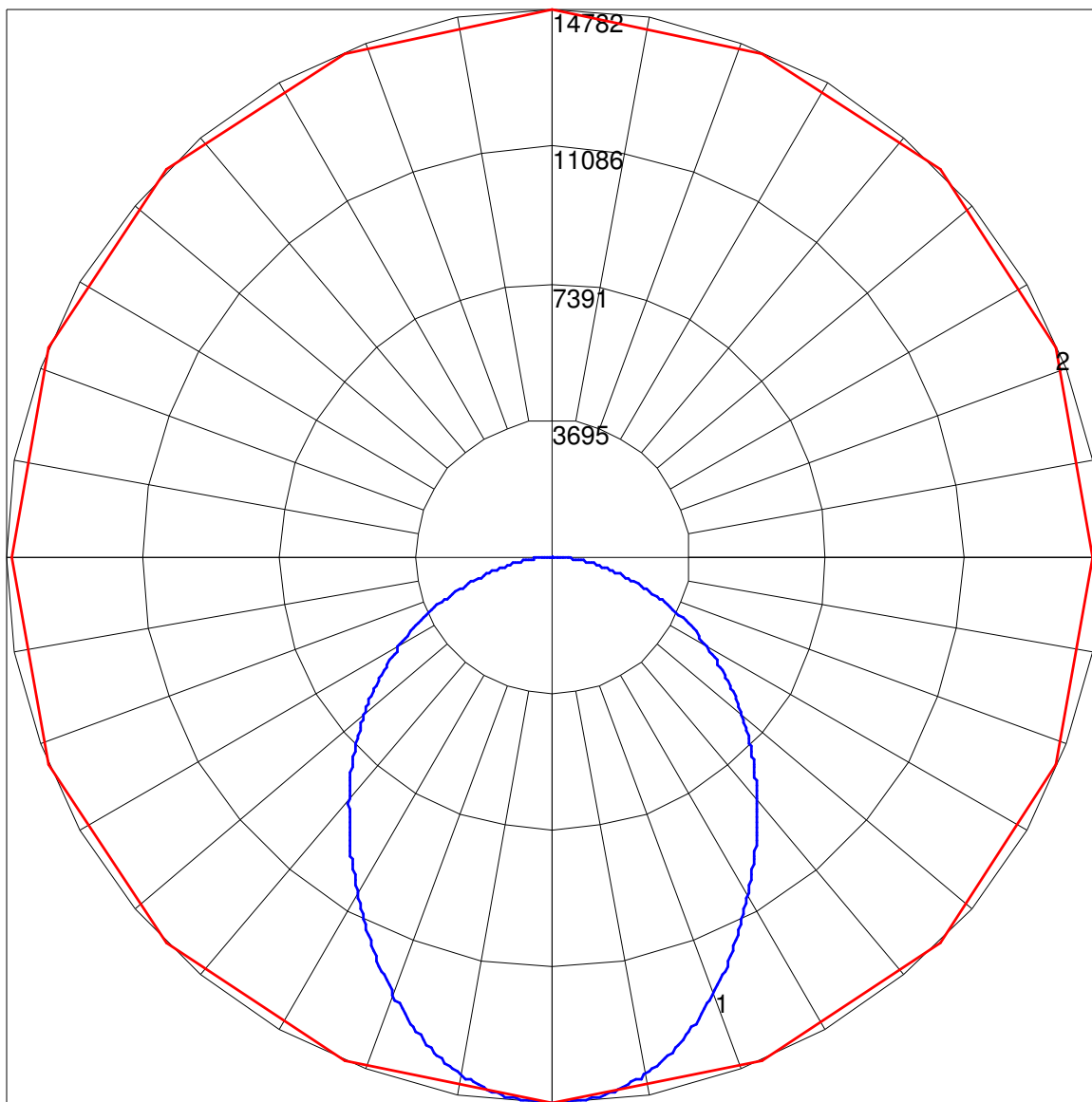
Reflectances

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	23.5	25.1	23.9	25.4	25.7	23.3	24.9	23.6	25.2	25.5
	3H	25.2	26.6	25.5	26.9	27.3	24.7	26.2	25.1	26.5	26.8
	4H	25.8	27.1	26.2	27.5	27.8	25.2	26.5	25.6	26.9	27.2
	6H	26.2	27.4	26.6	27.8	28.2	25.4	26.7	25.9	27.0	27.4
	8H	26.3	27.5	26.7	27.9	28.3	25.5	26.7	25.9	27.1	27.5
	12H	26.4	27.5	26.8	27.9	28.4	25.5	26.7	26.0	27.0	27.5
4H	2H	24.1	25.4	24.5	25.8	26.1	23.9	25.2	24.3	25.6	26.0
	3H	25.9	27.1	26.4	27.5	27.9	25.6	26.7	26.0	27.1	27.5
	4H	26.7	27.7	27.1	28.1	28.5	26.1	27.1	26.5	27.5	28.0
	6H	27.2	28.1	27.7	28.5	29.0	26.5	27.3	26.9	27.8	28.2
	8H	27.4	28.2	27.8	28.7	29.1	26.5	27.4	27.0	27.8	28.3
	12H	27.5	28.3	28.0	28.7	29.2	26.6	27.3	27.1	27.8	28.3
8H	4H	26.9	27.7	27.4	28.2	28.6	26.4	27.2	26.9	27.7	28.1
	6H	27.6	28.2	28.1	28.7	29.2	26.8	27.5	27.3	28.0	28.5
	8H	27.8	28.4	28.3	28.9	29.4	27.0	27.6	27.5	28.1	28.6
	12H	28.0	28.5	28.5	29.0	29.6	27.1	27.6	27.6	28.1	28.7
12H	4H	26.9	27.7	27.4	28.1	28.6	26.4	27.2	26.9	27.6	28.1
	6H	27.6	28.2	28.1	28.7	29.2	26.9	27.5	27.4	28.0	28.5
	8H	27.9	28.4	28.4	28.9	29.5	27.1	27.6	27.6	28.1	28.7

Maximum UGR = 29.6

POLAR GRAPH



Maximum Candela = 14781.668 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.)