



IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-2-L180-835-HA-CA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14617179.01
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 2023-03-13
[TESTDATE] 1/6/2023
[MANUFAC] H E Williams Inc
[LUMCAT] GS-2-L180-835-HA-CA-DIM-UNV
[LUMINAIRE] White aluminum housing, prismatic lense enclosure
[LAMP] 448 White LEDs
[BALLAST] ULT D21CC80UNVPW-C
[OTHER] 24.9 C, 120.004 V, 1.44538 A, 173.17 W, 0.998374 PF, 59.9997 H
[OTHER] This test was performed using the calibrated photodetector met
[MORE] hod of absolute photometry.
[FILEGENINFO] 1.10000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17462
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	116
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)	1.67 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	34840	35918	36568
55	33347	34689	24952
65	30248	21156	6858
75	24762	6807	6894
85	10856	9331	8689

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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	6619.418	6619.418	6619.418	6619.418	6619.418
0.5	6537.645	6623.576	6638.128	6627.734	6640.900
1.0	6539.724	6624.269	6638.821	6627.734	6640.207
1.5	6542.496	6623.576	6639.514	6625.655	6638.128
2.0	6541.803	6624.962	6638.128	6626.348	6638.821
2.5	6540.417	6623.576	6638.821	6624.962	6636.742
3.0	6539.724	6620.804	6637.435	6625.655	6638.128
3.5	6537.645	6616.646	6636.742	6625.655	6638.128
4.0	6532.794	6614.567	6634.663	6628.427	6639.514
4.5	6526.557	6610.409	6631.892	6629.813	6640.900
5.0	6518.242	6605.558	6629.813	6628.427	6638.821
5.5	6512.005	6601.400	6627.041	6626.348	6636.049
6.0	6507.154	6597.242	6623.576	6621.497	6630.506
6.5	6500.224	6591.005	6620.111	6616.646	6622.883
7.0	6491.215	6584.075	6613.181	6609.716	6613.874
7.5	6483.592	6577.838	6606.944	6600.707	6604.172
8.0	6476.662	6570.216	6597.935	6591.005	6595.163
8.5	6473.197	6561.900	6589.619	6581.303	6588.233
9.0	6467.653	6552.891	6580.610	6571.602	6579.917
9.5	6460.031	6545.961	6572.988	6564.672	6573.681
10.0	6451.715	6539.724	6564.672	6556.356	6565.365
10.5	6444.092	6532.794	6554.970	6545.961	6555.663
11.0	6435.776	6525.864	6543.882	6534.180	6545.268
11.5	6428.846	6518.242	6532.794	6523.092	6529.329
12.0	6415.679	6508.540	6523.785	6508.540	6508.540
12.5	6401.127	6498.838	6511.312	6489.136	6491.908
13.0	6386.574	6487.750	6498.145	6469.732	6473.890
13.5	6371.328	6472.504	6484.978	6453.101	6453.794
14.0	6354.696	6457.952	6471.118	6434.390	6435.083
14.5	6332.521	6443.399	6454.487	6415.679	6419.144
15.0	6316.582	6428.846	6438.548	6396.969	6406.671
15.5	6307.573	6412.907	6419.837	6378.951	6394.197
16.0	6294.407	6394.890	6401.127	6363.012	6378.951
16.5	6280.547	6378.258	6378.951	6347.074	6365.091
17.0	6271.538	6360.933	6359.547	6331.135	6349.153
17.5	6256.985	6344.302	6338.758	6313.117	6333.907
18.0	6240.354	6324.898	6316.582	6296.486	6315.889
18.5	6222.336	6306.187	6297.179	6276.389	6292.328
19.0	6200.853	6288.170	6272.924	6255.599	6270.152
19.5	6177.292	6269.459	6250.055	6235.503	6252.134
20.0	6155.116	6250.748	6227.880	6214.020	6232.731
20.5	6133.633	6230.652	6207.783	6193.230	6213.327
21.0	6112.844	6209.169	6186.993	6173.827	6192.537
21.5	6088.589	6187.686	6165.511	6154.423	6169.669
22.0	6065.028	6166.204	6144.028	6133.633	6146.800
22.5	6044.931	6143.335	6121.160	6112.151	6126.011
23.0	6024.834	6119.774	6095.519	6087.203	6101.063
23.5	6004.738	6093.440	6070.572	6065.028	6078.887
24.0	5979.790	6069.879	6043.545	6042.852	6054.633
24.5	5958.308	6046.317	6015.826	6017.904	6031.764
25.0	5934.746	6017.212	5986.027	5995.036	6005.431
25.5	5907.719	5992.957	5959.694	5969.395	5980.483
26.0	5876.535	5968.702	5934.053	5943.755	5952.764
26.5	5842.579	5936.825	5909.105	5916.728	5925.737

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PHOTOMETRIC FILENAME : GS-2-L180-835-HA-CA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	5811.394	5905.641	5882.079	5890.395	5898.711
27.5	5780.903	5873.070	5857.131	5864.061	5872.377
28.0	5751.797	5840.500	5830.105	5839.114	5846.044
28.5	5726.850	5807.929	5801.692	5812.087	5817.631
29.0	5699.130	5776.052	5772.587	5780.210	5789.912
29.5	5671.411	5744.174	5743.481	5751.104	5764.964
30.0	5643.691	5708.832	5712.297	5720.613	5735.859
30.5	5615.972	5676.262	5683.884	5689.428	5709.525
31.0	5586.173	5640.226	5655.472	5660.323	5680.420
31.5	5552.910	5604.884	5625.674	5630.524	5651.314
32.0	5518.260	5573.006	5594.489	5600.033	5620.823
32.5	5482.225	5539.050	5564.691	5573.006	5588.945
33.0	5444.804	5505.787	5537.664	5543.208	5559.840
33.5	5408.768	5470.444	5506.480	5512.717	5533.506
34.0	5372.040	5433.023	5472.523	5480.839	5503.015
34.5	5337.391	5396.295	5437.874	5448.962	5471.137
35.0	5305.513	5358.180	5399.760	5417.777	5437.181
35.5	5275.715	5320.066	5356.101	5385.207	5406.689
36.0	5239.679	5279.180	5320.759	5352.636	5374.812
36.5	5202.258	5238.293	5286.803	5318.680	5340.856
37.0	5159.293	5197.407	5249.381	5285.417	5307.592
37.5	5112.863	5157.214	5211.267	5252.153	5272.250
38.0	5068.511	5117.714	5177.311	5217.504	5235.521
38.5	5023.467	5077.520	5144.740	5181.468	5195.328
39.0	4983.967	5037.327	5106.626	5142.661	5157.907
39.5	4946.546	4994.362	5064.354	5101.775	5121.179
40.0	4907.738	4949.318	5022.081	5062.968	5083.064
40.5	4867.545	4904.273	4981.888	5023.467	5047.029
41.0	4830.124	4859.229	4941.002	4980.502	5010.300
41.5	4784.387	4813.492	4897.344	4941.002	4968.028
42.0	4733.798	4768.448	4852.992	4898.729	4925.063
42.5	4679.052	4722.711	4807.948	4856.457	4882.791
43.0	4625.692	4676.280	4764.983	4814.185	4841.905
43.5	4575.797	4627.078	4720.632	4771.220	4801.711
44.0	4531.446	4580.648	4680.438	4729.641	4764.290
44.5	4494.718	4534.911	4637.473	4692.219	4724.097
45.0	4456.603	4486.402	4594.508	4653.412	4677.666
45.5	4415.024	4439.279	4548.078	4606.982	4635.394
46.0	4365.822	4390.770	4496.104	4555.701	4589.657
46.5	4315.234	4340.181	4441.358	4513.428	4545.999
47.0	4261.874	4291.672	4394.927	4469.770	4503.727
47.5	4214.058	4245.242	4348.497	4424.033	4458.682
48.0	4170.400	4200.198	4299.295	4380.375	4412.252
48.5	4127.434	4159.312	4250.786	4337.410	4356.813
49.0	4081.697	4103.180	4205.049	4293.058	4286.128
49.5	4032.495	4043.583	4160.005	4248.707	4204.356
50.0	3970.819	3993.688	4112.882	4200.891	4105.952
50.5	3914.687	3950.029	4062.293	4149.610	3986.065
51.0	3862.020	3898.055	4011.705	4087.241	3848.160
51.5	3816.283	3847.467	3959.038	4011.012	3715.800
52.0	3772.625	3792.721	3909.143	3922.310	3609.080
52.5	3722.729	3740.054	3858.555	3807.274	3507.903
53.0	3665.212	3683.229	3806.581	3675.606	3356.139
53.5	3606.308	3630.562	3756.686	3538.395	3151.708
54.0	3551.562	3582.746	3704.019	3422.666	2918.171
54.5	3505.824	3530.079	3650.659	3322.876	2724.827

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PHOTOMETRIC FILENAME : GS-2-L180-835-HA-CA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	3460.087	3468.403	3599.378	3198.138	2589.002
55.5	3401.876	3411.578	3546.711	3020.733	2485.747
56.0	3338.814	3365.841	3495.430	2799.670	2385.263
56.5	3286.147	3317.332	3443.455	2593.853	2259.833
57.0	3241.796	3263.279	3388.709	2448.325	2133.016
57.5	3191.901	3202.989	3328.420	2344.377	2027.682
58.0	3134.383	3144.085	3263.972	2259.833	1962.541
58.5	3069.935	3087.953	3184.971	2156.577	1921.655
59.0	3017.961	3033.207	3094.190	2015.208	1887.698
59.5	2967.373	2974.303	2990.935	1898.093	1839.882
60.0	2902.232	2912.627	2868.969	1828.794	1776.127
60.5	2839.863	2859.960	2759.477	1787.908	1695.048
61.0	2783.731	2802.442	2656.222	1753.259	1594.565
61.5	2734.529	2742.845	2536.335	1702.671	1488.537
62.0	2675.625	2679.783	2406.053	1637.530	1382.510
62.5	2602.862	2616.028	2237.657	1552.292	1241.834
63.0	2539.107	2561.282	2047.778	1446.265	1030.473
63.5	2488.519	2507.229	1893.935	1343.703	859.998
64.0	2426.843	2444.167	1789.294	1241.141	758.821
64.5	2367.939	2388.728	1709.600	1088.684	666.030
65.0	2312.500	2331.903	1617.433	889.103	524.314
65.5	2239.043	2267.455	1501.704	751.199	454.323
66.0	2176.674	2207.859	1404.686	667.001	438.661
66.5	2122.621	2153.806	1346.475	542.956	431.454
67.0	2063.717	2093.516	1300.738	455.016	425.148
67.5	2002.041	2033.919	1252.922	423.208	418.911
68.0	1938.286	1979.866	1191.246	414.476	413.090
68.5	1882.847	1916.111	1103.929	407.546	407.407
69.0	1828.794	1858.593	1004.139	401.101	401.725
69.5	1768.504	1799.689	918.902	395.072	395.904
70.0	1709.600	1744.943	801.787	389.320	390.152
70.5	1652.775	1682.574	651.547	383.430	384.608
71.0	1602.880	1617.433	554.737	377.955	379.064
71.5	1545.362	1549.520	481.696	372.481	372.827
72.0	1487.844	1477.450	398.121	366.313	366.798
72.5	1431.019	1385.282	356.819	360.423	360.354
73.0	1377.659	1288.957	346.078	354.463	353.354
73.5	1324.299	1206.491	338.940	348.088	346.286
74.0	1270.939	1119.175	331.941	341.227	338.524
74.5	1218.272	1023.543	325.358	333.812	330.832
75.0	1159.368	901.577	318.705	326.259	322.794
75.5	1105.315	816.339	312.330	318.497	314.408
76.0	1051.262	753.971	306.162	310.458	305.885
76.5	993.744	685.781	299.509	302.212	297.084
77.0	936.226	613.433	292.857	293.757	288.352
77.5	878.015	566.309	285.719	285.234	279.343
78.0	812.874	508.861	278.304	276.433	270.334
78.5	758.821	436.929	270.334	267.216	261.048
79.0	711.005	381.420	262.296	258.207	251.970
79.5	661.387	301.103	254.049	249.198	242.684
80.0	611.284	258.831	245.526	239.912	233.190
80.5	561.112	219.261	237.002	230.349	223.835
81.0	510.177	205.817	228.132	220.855	215.381
81.5	459.936	197.432	218.845	211.500	207.273
82.0	414.684	188.701	209.144	202.006	196.462
82.5	374.283	179.900	199.442	192.581	186.899

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CANDELA TABULATION - (Cont.)

83.0	330.832	171.307	189.116	182.879	177.613
83.5	288.421	162.367	178.860	173.316	168.119
84.0	247.466	153.220	168.257	163.337	158.348
84.5	209.213	143.518	157.863	152.942	148.161
85.0	171.168	133.747	147.121	141.716	137.004
85.5	151.418	123.352	135.618	129.658	125.569
86.0	129.727	112.610	123.490	116.976	113.165
86.5	98.196	101.384	109.908	103.255	100.622
87.0	81.703	89.673	95.494	88.910	86.970
87.5	71.308	77.476	80.109	74.358	72.279
88.0	60.983	64.101	64.725	58.350	55.786
88.5	49.687	49.687	49.064	41.025	37.837
89.0	36.313	35.827	33.402	26.611	24.462
89.5	22.730	24.047	21.483	18.226	17.671
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-2-L180-835-HA-CA-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-2-L180-835-HA-CA-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-2-L180-835-HA-CA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2438.1	N.A.	14.00
0-30	5200.05	N.A.	29.80
0-40	8568.62	N.A.	49.10
0-60	15047.09	N.A.	86.20
0-80	17304.74	N.A.	99.10
0-90	17461.93	N.A.	100.00
10-90	16833.22	N.A.	96.40
20-40	6130.52	N.A.	35.10
20-50	9655.5	N.A.	55.30
40-70	8108.06	N.A.	46.40
60-80	2257.64	N.A.	12.90
70-80	628.06	N.A.	3.60
80-90	157.19	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	17461.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	628.71
10-20	1809.39
20-30	2761.95
30-40	3368.57
40-50	3524.98
50-60	2953.49
60-70	1629.58
70-80	628.06
80-90	157.19
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-2-L180-835-HA-CA-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-2-L180-835-HA-CA-DIM-UNV_.IES

UGR TABLE - CORRECTED

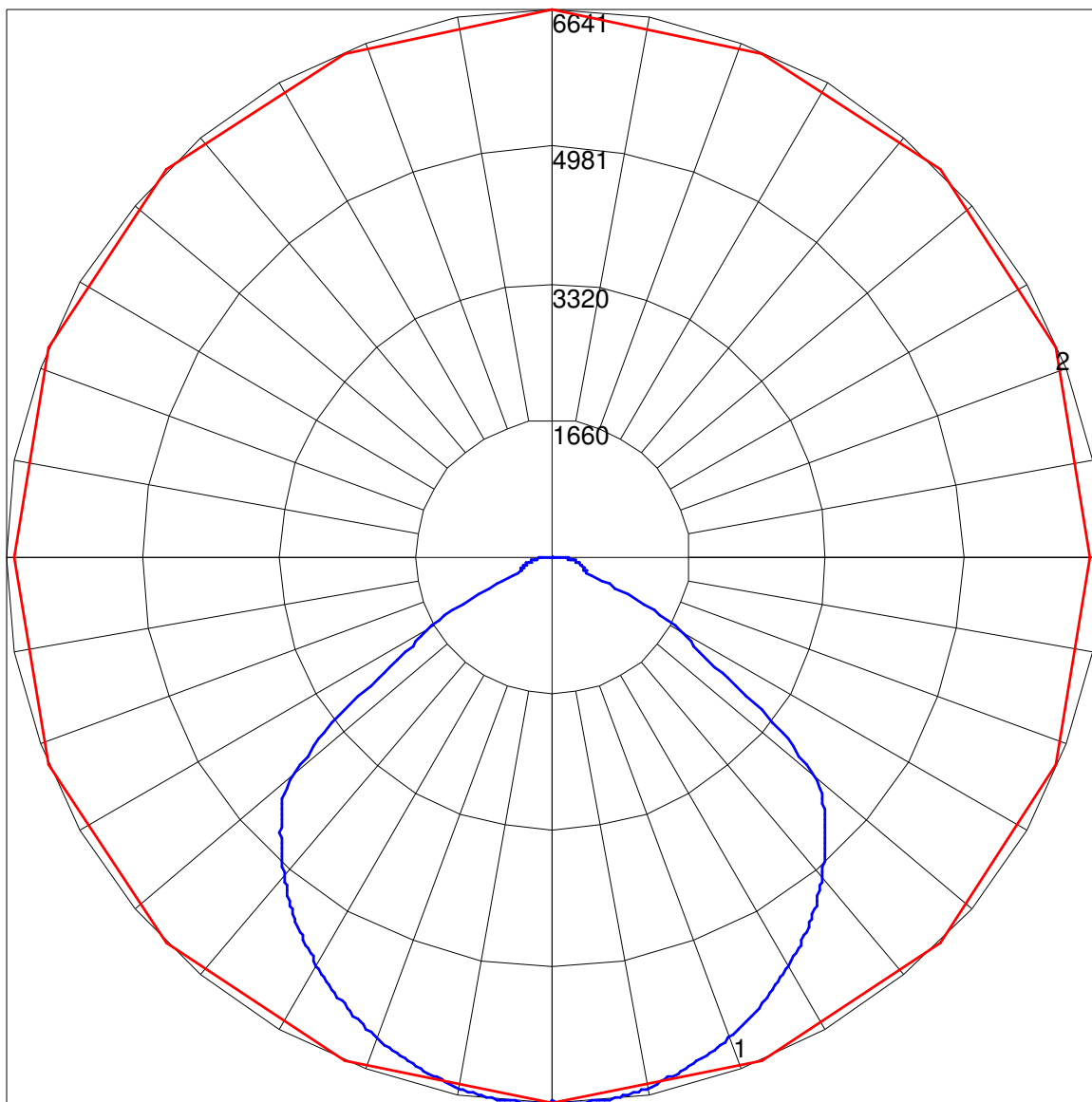
Reflectances

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	24.7	26.3	25.1	26.6	26.9	22.3	23.9	22.7	24.2	24.5
	3H	26.4	27.8	26.8	28.1	28.5	22.4	23.8	22.8	24.2	24.5
	4H	26.9	28.3	27.3	28.6	29.0	22.5	23.8	22.9	24.2	24.6
	6H	27.2	28.4	27.6	28.8	29.2	22.6	23.9	23.1	24.2	24.6
	8H	27.3	28.4	27.7	28.8	29.2	22.7	23.9	23.1	24.3	24.7
	12H	27.3	28.4	27.7	28.8	29.2	22.8	23.9	23.2	24.3	24.7
4H	2H	25.0	26.3	25.4	26.6	27.0	22.9	24.3	23.3	24.6	25.0
	3H	26.8	27.9	27.2	28.3	28.7	23.1	24.2	23.5	24.6	25.0
	4H	27.4	28.4	27.8	28.8	29.2	23.3	24.2	23.7	24.6	25.1
	6H	27.8	28.6	28.2	29.0	29.5	23.5	24.3	23.9	24.7	25.2
	8H	27.8	28.6	28.3	29.1	29.5	23.5	24.3	24.0	24.8	25.2
	12H	27.9	28.6	28.4	29.1	29.5	23.6	24.3	24.1	24.8	25.3
8H	4H	27.4	28.2	27.8	28.6	29.1	23.4	24.2	23.9	24.7	25.1
	6H	27.7	28.4	28.2	28.9	29.3	23.7	24.4	24.2	24.8	25.3
	8H	27.8	28.4	28.3	28.9	29.4	23.8	24.4	24.3	24.9	25.4
	12H	27.9	28.4	28.4	28.9	29.5	24.0	24.5	24.5	25.0	25.6
12H	4H	27.3	28.1	27.8	28.5	29.0	23.5	24.2	23.9	24.6	25.1
	6H	27.7	28.3	28.2	28.8	29.3	23.7	24.3	24.2	24.8	25.3
	8H	27.8	28.3	28.3	28.8	29.4	23.9	24.4	24.4	24.9	25.5

Maximum UGR = 29.5

POLAR GRAPH



Maximum Candela = 6640.9 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.)