



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GS-2-L180-835-HA-HE-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-HE-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	18160
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
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	36233	37355	38031
55	34681	36077	25950
65	31457	22002	7132
75	25752	7079	7170
85	11291	9704	9037

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GS-2-L180-835-HA-HE-DIM-UNV\_.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	6884.194	6884.194	6884.194	6884.194	6884.194
0.5	6799.151	6888.519	6903.653	6892.843	6906.536
1.0	6801.313	6889.239	6904.374	6892.843	6905.816
1.5	6804.196	6888.519	6905.095	6890.681	6903.653
2.0	6803.475	6889.960	6903.653	6891.401	6904.374
2.5	6802.034	6888.519	6904.374	6889.960	6902.212
3.0	6801.313	6885.636	6902.933	6890.681	6903.653
3.5	6799.151	6881.312	6902.212	6890.681	6903.653
4.0	6794.106	6879.149	6900.050	6893.564	6905.095
4.5	6787.620	6874.825	6897.167	6895.005	6906.536
5.0	6778.971	6869.780	6895.005	6893.564	6904.374
5.5	6772.485	6865.456	6892.122	6891.401	6901.491
6.0	6767.440	6861.132	6888.519	6886.357	6895.726
6.5	6760.233	6854.645	6884.915	6881.312	6887.798
7.0	6750.864	6847.438	6877.708	6874.104	6878.429
7.5	6742.936	6840.952	6871.222	6864.735	6868.339
8.0	6735.729	6833.024	6861.852	6854.645	6858.970
8.5	6732.125	6824.376	6853.204	6844.556	6851.763
9.0	6726.360	6815.007	6843.835	6834.466	6843.114
9.5	6718.432	6807.799	6835.907	6827.259	6836.628
10.0	6709.783	6801.313	6827.259	6818.610	6827.979
10.5	6701.855	6794.106	6817.169	6807.799	6817.889
11.0	6693.207	6786.899	6805.637	6795.547	6807.079
11.5	6686.000	6778.971	6794.106	6784.016	6790.502
12.0	6672.307	6768.881	6784.737	6768.881	6768.881
12.5	6657.172	6758.791	6771.764	6748.701	6751.584
13.0	6642.037	6747.260	6758.071	6728.522	6732.846
13.5	6626.181	6731.404	6744.377	6711.225	6711.945
14.0	6608.884	6716.270	6729.963	6691.766	6692.486
14.5	6585.822	6701.135	6712.666	6672.307	6675.910
15.0	6569.245	6686.000	6696.090	6652.847	6662.937
15.5	6559.876	6669.424	6676.631	6634.109	6649.965
16.0	6546.183	6650.685	6657.172	6617.533	6634.109
16.5	6531.769	6633.388	6634.109	6600.956	6619.695
17.0	6522.399	6615.371	6613.929	6584.380	6603.119
17.5	6507.265	6598.074	6592.308	6565.642	6587.263
18.0	6489.968	6577.894	6569.245	6548.345	6568.525
18.5	6471.229	6558.435	6549.066	6527.444	6544.021
19.0	6448.887	6539.696	6523.841	6505.823	6520.958
19.5	6424.383	6520.237	6500.058	6484.923	6502.220
20.0	6401.321	6500.778	6476.995	6462.581	6482.040
20.5	6378.979	6479.878	6456.094	6440.960	6461.860
21.0	6357.357	6457.536	6434.473	6420.780	6440.239
21.5	6332.133	6435.194	6412.131	6400.600	6416.455
22.0	6307.629	6412.852	6389.789	6378.979	6392.672
22.5	6286.728	6389.069	6366.006	6356.637	6371.051
23.0	6265.828	6364.565	6339.340	6330.691	6345.105
23.5	6244.927	6337.178	6313.394	6307.629	6322.043
24.0	6218.982	6312.674	6285.287	6284.566	6296.818
24.5	6196.640	6288.170	6256.458	6258.621	6273.035
25.0	6172.136	6257.900	6225.468	6234.837	6245.648
25.5	6144.028	6232.675	6198.081	6208.171	6219.702
26.0	6111.596	6207.450	6171.415	6181.505	6190.874
26.5	6076.282	6174.298	6145.470	6153.397	6162.767

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GS-2-L180-835-HA-HE-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

27.0	6043.850	6141.866	6117.362	6126.011	6134.659
27.5	6012.139	6107.993	6091.417	6098.624	6107.272
28.0	5981.869	6074.120	6063.309	6072.678	6079.885
28.5	5955.924	6040.246	6033.760	6044.571	6050.336
29.0	5927.095	6007.094	6003.490	6011.418	6021.508
29.5	5898.267	5973.941	5973.221	5981.148	5995.563
30.0	5869.439	5937.185	5940.789	5949.437	5965.293
30.5	5840.610	5903.312	5911.240	5917.005	5937.906
31.0	5809.620	5865.835	5881.691	5886.736	5907.636
31.5	5775.026	5829.079	5850.700	5855.745	5877.367
32.0	5738.991	5795.927	5818.269	5824.034	5845.655
32.5	5701.514	5760.612	5787.278	5795.927	5812.503
33.0	5662.596	5726.018	5759.171	5764.936	5782.233
33.5	5625.119	5689.262	5726.739	5733.225	5754.846
34.0	5586.922	5650.344	5691.424	5700.073	5723.135
34.5	5550.886	5612.146	5655.389	5666.920	5689.983
35.0	5517.734	5572.507	5615.750	5634.488	5654.668
35.5	5486.743	5532.869	5570.345	5600.615	5622.957
36.0	5449.267	5490.347	5533.589	5566.742	5589.804
36.5	5410.348	5447.825	5498.275	5531.427	5554.490
37.0	5365.664	5405.303	5459.356	5496.833	5519.896
37.5	5317.377	5363.502	5419.718	5462.239	5483.140
38.0	5271.252	5322.422	5384.403	5426.204	5444.942
38.5	5224.406	5280.621	5350.530	5388.727	5403.141
39.0	5183.326	5238.820	5310.891	5348.368	5364.223
39.5	5144.407	5194.136	5266.928	5305.846	5326.026
40.0	5104.048	5147.290	5222.964	5265.486	5286.387
40.5	5062.247	5100.444	5181.163	5224.406	5248.910
41.0	5023.329	5053.598	5138.642	5179.722	5210.712
41.5	4975.762	5006.032	5093.237	5138.642	5166.749
42.0	4923.150	4959.186	5047.112	5094.679	5122.065
42.5	4866.214	4911.619	5000.266	5050.715	5078.102
43.0	4810.720	4863.332	4955.582	5006.752	5035.581
43.5	4758.829	4812.161	4909.457	4962.069	4993.780
44.0	4712.704	4763.874	4867.656	4918.826	4954.861
44.5	4674.506	4716.307	4822.972	4879.908	4913.060
45.0	4634.867	4665.858	4778.288	4839.548	4864.773
45.5	4591.625	4616.850	4730.001	4791.261	4820.810
46.0	4540.455	4566.400	4675.948	4737.929	4773.243
46.5	4487.843	4513.789	4619.012	4693.965	4727.839
47.0	4432.349	4463.339	4570.725	4648.561	4683.876
47.5	4382.620	4415.052	4522.437	4600.994	4637.030
48.0	4337.215	4368.206	4471.267	4555.590	4588.742
48.5	4292.532	4325.684	4420.817	4510.906	4531.086
49.0	4244.965	4267.307	4373.251	4464.781	4457.574
49.5	4193.795	4205.326	4326.405	4418.655	4372.530
50.0	4129.652	4153.435	4277.397	4368.927	4270.190
50.5	4071.275	4108.031	4224.785	4315.594	4145.507
51.0	4016.501	4053.978	4172.174	4250.731	4002.087
51.5	3968.934	4001.366	4117.400	4171.453	3864.432
52.0	3923.530	3944.430	4065.509	4079.202	3753.443
52.5	3871.639	3889.656	4012.897	3959.565	3648.219
53.0	3811.820	3830.558	3958.844	3822.631	3490.385
53.5	3750.560	3775.785	3906.953	3679.931	3277.776
54.0	3693.624	3726.056	3852.180	3559.572	3034.898
54.5	3646.057	3671.282	3796.685	3455.791	2833.820

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GS-2-L180-835-HA-HE-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

55.0	3598.491	3607.139	3743.353	3326.063	2692.562
55.5	3537.951	3548.041	3688.579	3141.562	2585.176
56.0	3472.367	3500.474	3635.247	2911.657	2480.674
56.5	3417.593	3450.025	3581.194	2697.607	2350.226
57.0	3371.468	3393.810	3524.258	2546.258	2218.337
57.5	3319.577	3331.108	3461.556	2438.152	2108.789
58.0	3259.758	3269.848	3394.531	2350.226	2041.043
58.5	3192.733	3211.471	3312.370	2242.841	1998.521
59.0	3138.680	3154.535	3217.957	2095.816	1963.206
59.5	3086.068	3093.275	3110.572	1974.017	1913.477
60.0	3018.321	3029.132	2983.727	1901.946	1847.172
60.5	2953.458	2974.358	2869.856	1859.424	1762.850
61.0	2895.080	2914.540	2762.470	1823.389	1658.347
61.5	2843.910	2852.559	2637.788	1770.777	1548.079
62.0	2782.650	2786.974	2502.295	1703.031	1437.811
62.5	2706.976	2720.669	2327.163	1614.384	1291.507
63.0	2640.671	2663.734	2129.690	1504.116	1071.691
63.5	2588.059	2607.518	1969.693	1397.451	894.398
64.0	2523.916	2541.934	1860.866	1290.786	789.174
64.5	2462.656	2484.277	1777.984	1132.231	692.672
65.0	2405.000	2425.179	1682.130	924.667	545.287
65.5	2328.605	2358.154	1561.772	781.247	472.496
66.0	2263.741	2296.173	1460.873	693.681	456.208
66.5	2207.526	2239.958	1400.334	564.674	448.712
67.0	2146.266	2177.256	1352.767	473.216	442.154
67.5	2082.123	2115.275	1303.038	440.136	435.667
68.0	2015.818	2059.060	1238.896	431.055	429.614
68.5	1958.161	1992.755	1148.086	423.848	423.704
69.0	1901.946	1932.936	1044.305	417.145	417.794
69.5	1839.245	1871.676	955.658	410.875	411.740
70.0	1777.984	1814.741	833.858	404.893	405.758
70.5	1718.886	1749.877	677.609	398.767	399.992
71.0	1666.996	1682.130	576.926	393.074	394.227
71.5	1607.177	1611.501	500.964	387.380	387.740
72.0	1547.358	1536.548	414.046	380.966	381.470
72.5	1488.260	1440.694	371.092	374.840	374.768
73.0	1432.766	1340.515	359.921	368.642	367.489
73.5	1377.271	1254.751	352.498	362.011	360.137
74.0	1321.777	1163.942	345.219	354.876	352.065
74.5	1267.003	1064.484	338.372	347.165	344.066
75.0	1205.743	937.640	331.453	339.309	335.705
75.5	1149.528	848.993	324.823	331.237	326.985
76.0	1093.313	784.129	318.408	322.877	318.120
76.5	1033.494	713.212	311.490	314.300	308.967
77.0	973.675	637.970	304.571	305.508	299.886
77.5	913.136	588.962	297.148	296.643	290.517
78.0	845.389	529.215	289.436	287.490	281.148
78.5	789.174	454.406	281.148	277.905	271.490
79.0	739.446	396.677	272.788	268.535	262.049
79.5	687.843	313.147	264.211	259.166	252.392
80.0	635.736	269.184	255.347	249.509	242.518
80.5	583.557	228.032	246.482	239.563	232.788
81.0	530.585	214.050	237.257	229.689	223.996
81.5	478.333	205.329	227.599	219.960	215.563
82.0	431.271	196.249	217.509	210.086	204.320
82.5	389.254	187.096	207.420	200.285	194.375

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GS-2-L180-835-HA-HE-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

83.0	344.066	178.159	196.681	190.195	184.717
83.5	299.958	168.862	186.015	180.249	174.844
84.0	257.365	159.348	174.988	169.871	164.682
84.5	217.581	149.258	164.177	159.060	154.087
85.0	178.015	139.096	153.006	147.385	142.484
85.5	157.475	128.286	141.042	134.844	130.592
86.0	134.916	117.115	128.430	121.655	117.691
86.5	102.124	105.439	114.304	107.385	104.647
87.0	84.971	93.260	99.313	92.467	90.449
87.5	74.161	80.575	83.314	77.332	75.170
88.0	63.422	66.665	67.314	60.684	58.017
88.5	51.675	51.675	51.026	42.666	39.351
89.0	37.765	37.261	34.738	27.675	25.441
89.5	23.639	25.009	22.342	18.955	18.378
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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : GS-2-L180-835-HA-HE-DIM-UNV\_.IES

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-HE-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-HE-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-HE-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2535.63	N.A.	14.00
0-30	5408.06	N.A.	29.80
0-40	8911.37	N.A.	49.10
0-60	15648.98	N.A.	86.20
0-80	17996.93	N.A.	99.10
0-90	18160.41	N.A.	100.00
10-90	17506.55	N.A.	96.40
20-40	6375.74	N.A.	35.10
20-50	10041.72	N.A.	55.30
40-70	8432.38	N.A.	46.40
60-80	2347.95	N.A.	12.90
70-80	653.18	N.A.	3.60
80-90	163.48	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	18160.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	653.86
10-20	1881.77
20-30	2872.43
30-40	3503.31
40-50	3665.98
50-60	3071.63
60-70	1694.77
70-80	653.18
80-90	163.48
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-HE-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-HE-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

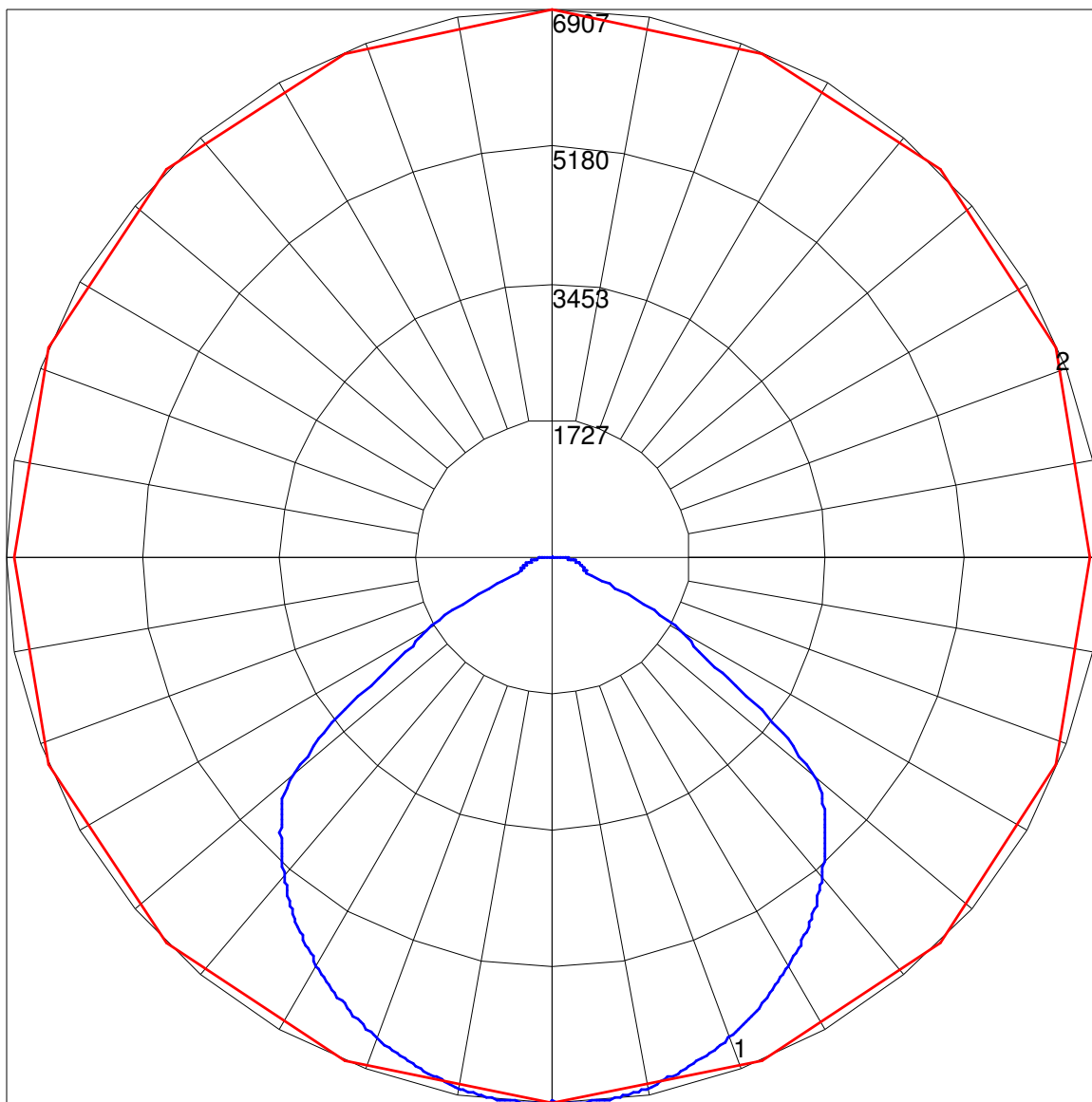
Reflectances

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	24.4	24.7
	4H	27.1	28.5	27.5	28.8	29.2	22.7	24.0	23.1	24.4	24.8
	6H	27.4	28.6	27.8	29.0	29.4	22.8	24.1	23.3	24.4	24.8
	8H	27.5	28.6	27.9	29.0	29.4	22.9	24.1	23.3	24.5	24.9
	12H	27.5	28.6	27.9	29.0	29.4	23.0	24.1	23.4	24.5	24.9
4H	2H	25.2	26.5	25.6	26.8	27.2	23.1	24.5	23.5	24.8	25.2
	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	23.5	24.4	23.9	24.8	25.3
	6H	28.0	28.8	28.4	29.2	29.7	23.7	24.5	24.1	24.9	25.4
	8H	28.0	28.8	28.5	29.3	29.7	23.7	24.5	24.2	25.0	25.4
	12H	28.1	28.8	28.6	29.3	29.7	23.8	24.5	24.3	25.0	25.5
8H	4H	27.6	28.4	28.0	28.8	29.3	23.6	24.4	24.1	24.9	25.3
	6H	27.9	28.6	28.4	29.1	29.5	23.9	24.6	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	29.7	24.2	24.7	24.7	25.2	25.8
12H	4H	27.5	28.3	28.0	28.7	29.2	23.7	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	28.5	28.5	29.0	29.6	24.1	24.6	24.6	25.1	25.7

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 6906.536 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.)