



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 14617179.01  
[TESTLAB] UL Verification Services Inc.  
[ISSUE DATE] 2023-03-13  
[TEST DATE] 1/6/2023  
[MANUFAC] H E Williams Inc  
[LUMCAT] GS-2-L180-835-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	31458	22002	7132
75	25752	7079	7170
85	11291	9704	9037

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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	6884.210	6884.210	6884.210	6884.210	6884.210
0.5	6799.166	6888.534	6903.669	6892.858	6906.552
1.0	6801.328	6889.255	6904.390	6892.858	6905.831
1.5	6804.211	6888.534	6905.110	6890.696	6903.669
2.0	6803.490	6889.975	6903.669	6891.417	6904.390
2.5	6802.049	6888.534	6904.390	6889.975	6902.227
3.0	6801.328	6885.651	6902.948	6890.696	6903.669
3.5	6799.166	6881.327	6902.227	6890.696	6903.669
4.0	6794.121	6879.165	6900.065	6893.579	6905.110
4.5	6787.635	6874.841	6897.183	6895.020	6906.552
5.0	6778.986	6869.796	6895.020	6893.579	6904.390
5.5	6772.500	6865.471	6892.138	6891.417	6901.507
6.0	6767.455	6861.147	6888.534	6886.372	6895.741
6.5	6760.248	6854.661	6884.930	6881.327	6887.813
7.0	6750.879	6847.454	6877.723	6874.120	6878.444
7.5	6742.951	6840.967	6871.237	6864.751	6868.354
8.0	6735.744	6833.039	6861.868	6854.661	6858.985
8.5	6732.140	6824.391	6853.219	6844.571	6851.778
9.0	6726.375	6815.022	6843.850	6834.481	6843.129
9.5	6718.447	6807.815	6835.922	6827.274	6836.643
10.0	6709.798	6801.328	6827.274	6818.625	6827.994
10.5	6701.870	6794.121	6817.184	6807.815	6817.905
11.0	6693.222	6786.914	6805.653	6795.563	6807.094
11.5	6686.015	6778.986	6794.121	6784.031	6790.518
12.0	6672.321	6768.896	6784.752	6768.896	6768.896
12.5	6657.187	6758.806	6771.779	6748.717	6751.599
13.0	6642.052	6747.275	6758.086	6728.537	6732.861
13.5	6626.196	6731.420	6744.392	6711.240	6711.960
14.0	6608.899	6716.285	6729.978	6691.781	6692.501
14.5	6585.836	6701.150	6712.681	6672.321	6675.925
15.0	6569.260	6686.015	6696.105	6652.862	6662.952
15.5	6559.891	6669.439	6676.646	6634.124	6649.979
16.0	6546.197	6650.700	6657.187	6617.548	6634.124
16.5	6531.783	6633.403	6634.124	6600.971	6619.710
17.0	6522.414	6615.385	6613.944	6584.395	6603.133
17.5	6507.279	6598.088	6592.323	6565.657	6587.278
18.0	6489.982	6577.909	6569.260	6548.360	6568.539
18.5	6471.244	6558.449	6549.080	6527.459	6544.035
19.0	6448.902	6539.711	6523.855	6505.838	6520.973
19.5	6424.398	6520.252	6500.072	6484.937	6502.234
20.0	6401.335	6500.793	6477.009	6462.595	6482.054
20.5	6378.993	6479.892	6456.109	6440.974	6461.874
21.0	6357.372	6457.550	6434.488	6420.794	6440.253
21.5	6332.147	6435.208	6412.146	6400.614	6416.470
22.0	6307.643	6412.866	6389.804	6378.993	6392.686
22.5	6286.742	6389.083	6366.020	6356.651	6371.065
23.0	6265.842	6364.579	6339.354	6330.705	6345.120
23.5	6244.941	6337.192	6313.408	6307.643	6322.057
24.0	6218.996	6312.688	6285.301	6284.580	6296.832
24.5	6196.654	6288.184	6256.472	6258.635	6273.049
25.0	6172.150	6257.914	6225.482	6234.851	6245.662
25.5	6144.042	6232.689	6198.095	6208.185	6219.716
26.0	6111.610	6207.464	6171.429	6181.519	6190.888
26.5	6076.295	6174.312	6145.483	6153.411	6162.780

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**CANDELA TABULATION - (Cont.)**

27.0	6043.863	6141.880	6117.376	6126.024	6134.673
27.5	6012.152	6108.006	6091.430	6098.637	6107.286
28.0	5981.882	6074.133	6063.323	6072.692	6079.899
28.5	5955.937	6040.260	6033.773	6044.584	6050.350
29.0	5927.109	6007.107	6003.504	6011.431	6021.521
29.5	5898.280	5973.955	5973.234	5981.162	5995.576
30.0	5869.452	5937.198	5940.802	5949.451	5965.306
30.5	5840.624	5903.325	5911.253	5917.019	5937.919
31.0	5809.633	5865.848	5881.704	5886.749	5907.649
31.5	5775.039	5829.092	5850.713	5855.758	5877.380
32.0	5739.004	5795.940	5818.282	5824.047	5845.668
32.5	5701.527	5760.625	5787.291	5795.940	5812.516
33.0	5662.608	5726.031	5759.183	5764.949	5782.246
33.5	5625.132	5689.275	5726.752	5733.238	5754.859
34.0	5586.934	5650.356	5691.437	5700.085	5723.148
34.5	5550.899	5612.159	5655.401	5666.933	5689.995
35.0	5517.746	5572.520	5615.762	5634.501	5654.681
35.5	5486.756	5532.881	5570.358	5600.628	5622.969
36.0	5449.279	5490.359	5533.602	5566.754	5589.817
36.5	5410.360	5447.837	5498.287	5531.439	5554.502
37.0	5365.676	5405.315	5459.369	5496.845	5519.908
37.5	5317.389	5363.514	5419.730	5462.251	5483.152
38.0	5271.264	5322.434	5384.415	5426.216	5444.954
38.5	5224.418	5280.633	5350.542	5388.739	5403.153
39.0	5183.337	5238.832	5310.903	5348.379	5364.235
39.5	5144.419	5194.148	5266.939	5305.858	5326.037
40.0	5104.059	5147.302	5222.976	5265.498	5286.399
40.5	5062.258	5100.456	5181.175	5224.418	5248.922
41.0	5023.340	5053.610	5138.653	5179.734	5210.724
41.5	4975.773	5006.043	5093.249	5138.653	5166.761
42.0	4923.161	4959.197	5047.123	5094.690	5122.077
42.5	4866.225	4911.630	5000.277	5050.727	5078.114
43.0	4810.731	4863.342	4955.593	5006.764	5035.592
43.5	4758.840	4812.172	4909.468	4962.080	4993.791
44.0	4712.714	4763.885	4867.667	4918.837	4954.873
44.5	4674.517	4716.318	4822.983	4879.919	4913.071
45.0	4634.878	4665.868	4778.299	4839.559	4864.784
45.5	4591.635	4616.860	4730.011	4791.272	4820.821
46.0	4540.465	4566.410	4675.958	4737.939	4773.254
46.5	4487.853	4513.799	4619.022	4693.976	4727.849
47.0	4432.359	4463.349	4570.735	4648.571	4683.886
47.5	4382.630	4415.062	4522.447	4601.005	4637.040
48.0	4337.225	4368.216	4471.277	4555.600	4588.752
48.5	4292.541	4325.694	4420.827	4510.916	4531.096
49.0	4244.974	4267.316	4373.261	4464.791	4457.583
49.5	4193.804	4205.335	4326.414	4418.665	4372.540
50.0	4129.661	4153.444	4277.406	4368.936	4270.199
50.5	4071.284	4108.040	4224.795	4315.604	4145.517
51.0	4016.510	4053.987	4172.183	4250.740	4002.096
51.5	3968.943	4001.375	4117.409	4171.462	3864.440
52.0	3923.538	3944.439	4065.518	4079.211	3753.451
52.5	3871.647	3889.665	4012.906	3959.574	3648.228
53.0	3811.828	3830.567	3958.853	3822.639	3490.392
53.5	3750.568	3775.793	3906.962	3679.939	3277.783
54.0	3693.632	3726.064	3852.188	3559.580	3034.904
54.5	3646.065	3671.290	3796.694	3455.798	2833.827

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**CANDELA TABULATION - (Cont.)**

55.0	3598.499	3607.147	3743.361	3326.071	2692.568
55.5	3537.959	3548.049	3688.587	3141.569	2585.182
56.0	3472.375	3500.482	3635.255	2911.663	2480.679
56.5	3417.601	3450.033	3581.202	2697.613	2350.231
57.0	3371.475	3393.817	3524.266	2546.264	2218.341
57.5	3319.584	3331.116	3461.564	2438.158	2108.794
58.0	3259.766	3269.855	3394.538	2350.231	2041.047
58.5	3192.740	3211.478	3312.377	2242.846	1998.525
59.0	3138.687	3154.542	3217.964	2095.821	1963.211
59.5	3086.075	3093.282	3110.579	1974.021	1913.482
60.0	3018.328	3029.139	2983.734	1901.950	1847.176
60.5	2953.464	2974.365	2869.862	1859.429	1762.854
61.0	2895.087	2914.546	2762.477	1823.393	1658.351
61.5	2843.917	2852.565	2637.794	1770.781	1548.082
62.0	2782.656	2786.981	2502.301	1703.035	1437.814
62.5	2706.982	2720.675	2327.168	1614.388	1291.510
63.0	2640.677	2663.739	2129.694	1504.119	1071.694
63.5	2588.065	2607.524	1969.697	1397.454	894.400
64.0	2523.922	2541.940	1860.870	1290.789	789.176
64.5	2462.662	2484.283	1777.988	1132.233	692.673
65.0	2405.005	2425.185	1682.134	924.669	545.288
65.5	2328.610	2358.159	1561.776	781.248	472.497
66.0	2263.746	2296.178	1460.877	693.682	456.209
66.5	2207.531	2239.963	1400.337	564.675	448.713
67.0	2146.271	2177.261	1352.770	473.217	442.155
67.5	2082.128	2115.280	1303.041	440.137	435.668
68.0	2015.822	2059.065	1238.898	431.056	429.614
68.5	1958.166	1992.760	1148.089	423.849	423.705
69.0	1901.950	1932.941	1044.307	417.146	417.795
69.5	1839.249	1871.681	955.660	410.876	411.741
70.0	1777.988	1814.745	833.860	404.894	405.759
70.5	1718.890	1749.881	677.610	398.768	399.993
71.0	1666.999	1682.134	576.927	393.075	394.228
71.5	1607.180	1611.505	500.965	387.381	387.741
72.0	1547.362	1536.551	414.047	380.967	381.471
72.5	1488.264	1440.697	371.093	374.841	374.769
73.0	1432.769	1340.518	359.922	368.643	367.489
73.5	1377.274	1254.754	352.499	362.012	360.138
74.0	1321.780	1163.945	345.219	354.877	352.066
74.5	1267.006	1064.487	338.373	347.165	344.066
75.0	1205.746	937.642	331.454	339.310	335.706
75.5	1149.530	848.995	324.823	331.238	326.986
76.0	1093.315	784.131	318.409	322.878	318.121
76.5	1033.496	713.213	311.490	314.301	308.968
77.0	973.677	637.971	304.572	305.508	299.887
77.5	913.138	588.963	297.148	296.644	290.518
78.0	845.391	529.216	289.437	287.491	281.148
78.5	789.176	454.407	281.148	277.905	271.491
79.0	739.447	396.678	272.788	268.536	262.050
79.5	687.844	313.148	264.212	259.167	252.392
80.0	635.737	269.185	255.347	249.509	242.518
80.5	583.558	228.032	246.482	239.564	232.789
81.0	530.586	214.050	237.257	229.690	223.996
81.5	478.334	205.330	227.600	219.960	215.564
82.0	431.272	196.249	217.510	210.087	204.321
82.5	389.255	187.096	207.420	200.285	194.375

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**CANDELA TABULATION - (Cont.)**

83.0	344.066	178.159	196.681	190.195	184.718
83.5	299.959	168.862	186.015	180.249	174.844
84.0	257.365	159.349	174.988	169.871	164.682
84.5	217.582	149.259	164.177	159.060	154.088
85.0	178.015	139.097	153.006	147.385	142.484
85.5	157.475	128.286	141.043	134.845	130.592
86.0	134.917	117.115	128.430	121.656	117.692
86.5	102.124	105.440	114.304	107.386	104.647
87.0	84.972	93.260	99.314	92.467	90.449
87.5	74.161	80.575	83.314	77.332	75.170
88.0	63.422	66.666	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

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

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2535.63	N.A.	14.00
0-30	5408.07	N.A.	29.80
0-40	8911.38	N.A.	49.10
0-60	15649.01	N.A.	86.20
0-80	17996.97	N.A.	99.10
0-90	18160.45	N.A.	100.00
10-90	17506.59	N.A.	96.40
20-40	6375.75	N.A.	35.10
20-50	10041.75	N.A.	55.30
40-70	8432.4	N.A.	46.40
60-80	2347.96	N.A.	12.90
70-80	653.19	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	18160.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	653.86
10-20	1881.77
20-30	2872.44
30-40	3503.32
40-50	3665.99
50-60	3071.64
60-70	1694.77
70-80	653.19
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-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-HE-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

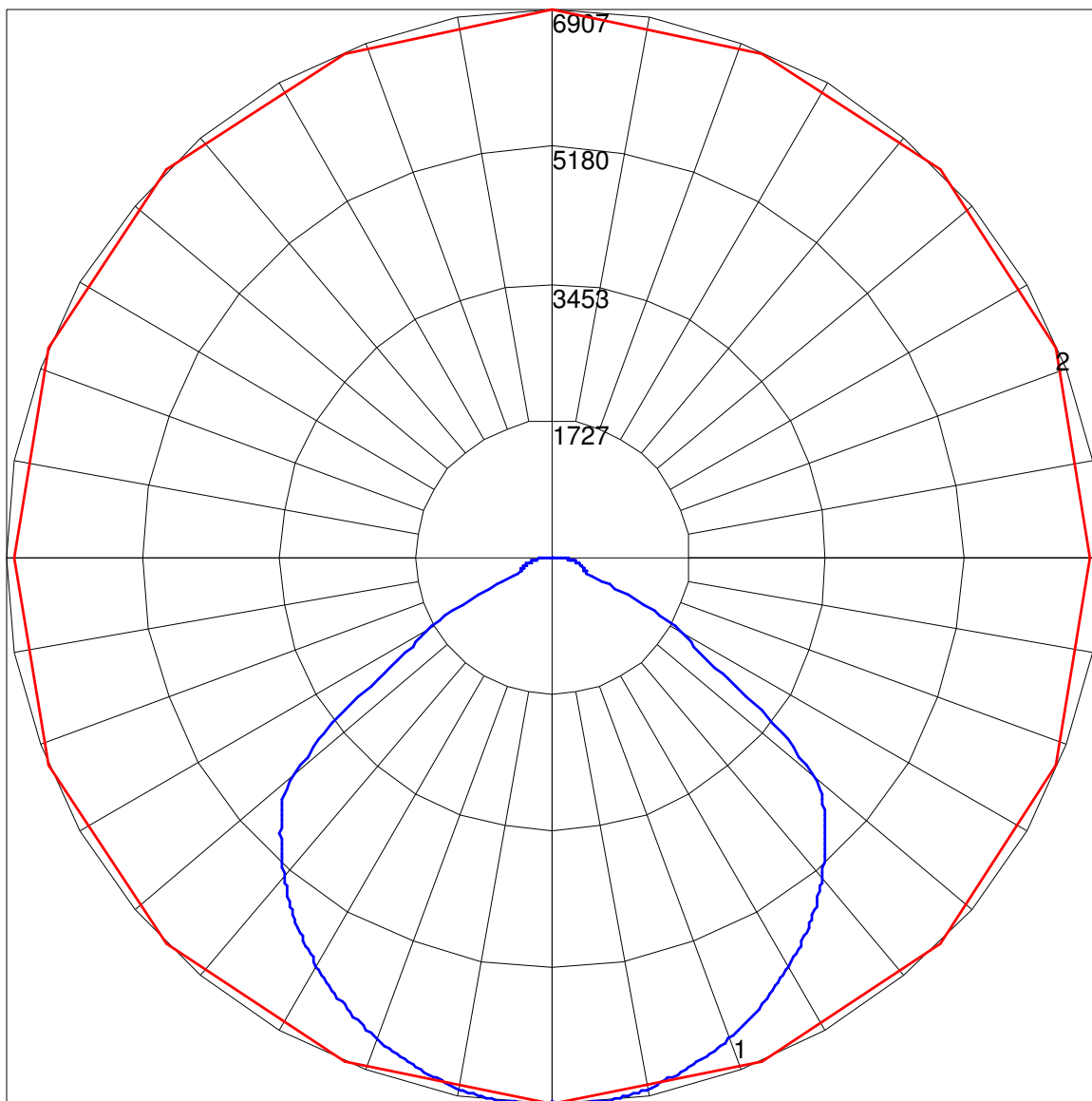
Reflectances

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 = 6906.552 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.)