



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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 14629546.01  
[TESTLAB] UL Verification Services Inc.  
[ISSUE DATE] 2023-03-13  
[TEST DATE] 1/5/2023  
[MANUFAC] H E Williams Inc  
[LUMCAT] GS-2-L180-835-HA-ND-DIM-UNV  
[LUMINAIRE] White aluminum housing, prismatic lense enclosure  
[LAMP] 448 White LEDs  
[BALLAST] ULT D21CC80UNVPW-C  
[OTHER] 25.5 C, 276.967 V, 0.622888 A, 168.916 W, 0.979112 PF, 59.9997  
[MORE] Hz  
[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	16764
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	116
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)	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	30245	29772	29972
55	27861	27566	27054
65	24878	24650	22611
75	20794	19814	16128
85	15333	12193	9930

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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	7376.459	7376.459	7376.459	7376.459	7376.459
0.5	7310.923	7376.459	7391.023	7376.459	7391.023
1.0	7303.641	7369.177	7391.023	7369.177	7391.023
1.5	7303.641	7369.177	7383.741	7369.177	7383.741
2.0	7296.359	7361.895	7376.459	7361.895	7376.459
2.5	7296.359	7354.614	7376.459	7354.614	7369.177
3.0	7289.078	7347.332	7369.177	7347.332	7361.895
3.5	7277.427	7340.050	7354.614	7332.768	7340.050
4.0	7269.417	7332.768	7347.332	7325.487	7340.050
4.5	7260.679	7325.487	7340.050	7310.923	7325.487
5.0	7250.484	7310.923	7332.768	7303.641	7310.923
5.5	7238.105	7303.641	7318.205	7289.078	7296.359
6.0	7224.270	7289.078	7303.641	7273.058	7289.078
6.5	7209.706	7271.601	7289.078	7256.309	7269.417
7.0	7192.230	7254.125	7269.417	7239.561	7251.940
7.5	7171.112	7234.464	7248.299	7219.172	7233.736
8.0	7152.180	7213.347	7226.454	7198.055	7212.619
8.5	7131.063	7190.045	7203.152	7176.210	7190.773
9.0	7107.033	7165.287	7177.666	7152.908	7167.472
9.5	7081.546	7138.344	7152.908	7128.150	7141.985
10.0	7052.419	7110.674	7124.509	7102.664	7115.771
10.5	7023.292	7080.090	7096.110	7074.993	7086.644
11.0	6991.980	7049.506	7065.526	7045.866	7055.332
11.5	6959.940	7017.467	7034.943	7015.282	7025.477
12.0	6926.444	6983.970	7000.718	6982.514	6991.252
12.5	6893.676	6948.289	6965.766	6949.746	6957.028
13.0	6860.180	6912.609	6928.629	6913.337	6921.347
13.5	6824.499	6875.472	6890.763	6873.287	6882.753
14.0	6786.634	6835.422	6852.170	6831.053	6844.888
14.5	6748.040	6794.644	6812.120	6793.915	6804.110
15.0	6707.262	6754.594	6770.614	6753.866	6763.332
15.5	6665.028	6713.087	6728.379	6710.175	6721.826
16.0	6622.793	6670.125	6683.232	6665.756	6677.407
16.5	6577.646	6627.890	6638.813	6622.065	6630.803
17.0	6531.043	6583.472	6598.035	6576.190	6583.472
17.5	6484.439	6538.324	6550.703	6529.586	6535.412
18.0	6438.564	6491.721	6501.915	6482.255	6487.352
18.5	6390.504	6445.846	6455.312	6434.195	6437.836
19.0	6343.172	6399.242	6407.252	6385.407	6387.591
19.5	6295.112	6351.910	6359.920	6335.162	6338.803
20.0	6247.781	6303.122	6311.132	6285.646	6290.015
20.5	6199.721	6255.063	6262.344	6235.402	6239.771
21.0	6150.205	6207.003	6214.284	6185.157	6190.255
21.5	6103.601	6157.486	6164.768	6134.913	6139.282
22.0	6054.085	6109.427	6115.252	6084.669	6089.766
22.5	6006.753	6061.367	6065.008	6034.424	6039.521
23.0	5958.693	6011.851	6014.035	5982.723	5987.092
23.5	5910.634	5963.063	5961.606	5929.566	5934.664
24.0	5863.302	5915.731	5909.177	5876.409	5882.963
24.5	5818.883	5865.486	5854.564	5823.252	5829.806
25.0	5771.551	5815.970	5800.678	5770.095	5778.833
25.5	5722.763	5765.726	5746.793	5718.394	5727.132
26.0	5675.432	5715.481	5692.908	5666.693	5677.616
26.5	5628.100	5664.509	5639.023	5614.265	5627.372

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**CANDELA TABULATION - (Cont.)**

27.0	5580.768	5618.634	5585.137	5562.564	5577.856
27.5	5532.708	5574.943	5531.980	5510.135	5528.339
28.0	5484.649	5516.688	5479.551	5458.434	5478.823
28.5	5437.317	5466.444	5427.122	5407.462	5430.035
29.0	5384.888	5421.297	5375.422	5356.489	5381.247
29.5	5336.828	5369.596	5324.449	5306.973	5332.459
30.0	5288.768	5317.895	5274.205	5257.457	5281.486
30.5	5242.165	5269.107	5224.688	5209.397	5231.970
31.0	5194.833	5220.319	5174.444	5161.337	5182.454
31.5	5148.958	5171.531	5124.200	5112.549	5132.210
32.0	5103.811	5122.743	5074.683	5064.489	5082.693
32.5	5057.935	5075.412	5025.167	5017.157	5034.634
33.0	5012.788	5027.352	4975.651	4968.369	4986.574
33.5	4968.369	4980.748	4926.135	4920.309	4939.970
34.0	4923.222	4932.688	4877.347	4871.521	4893.367
34.5	4878.075	4884.629	4822.733	4822.005	4846.035
35.0	4832.200	4837.297	4775.402	4772.489	4798.703
35.5	4787.053	4789.965	4728.798	4722.973	4751.372
36.0	4741.177	4742.634	4679.282	4674.185	4703.312
36.5	4695.302	4693.846	4630.494	4624.668	4655.980
37.0	4650.155	4645.786	4581.706	4575.152	4607.192
37.5	4610.833	4596.269	4531.461	4525.636	4559.132
38.0	4567.142	4547.481	4482.673	4476.120	4511.072
38.5	4508.160	4497.965	4433.885	4427.332	4463.741
39.0	4459.372	4447.721	4387.282	4378.544	4415.681
39.5	4410.584	4398.205	4341.407	4329.756	4366.893
40.0	4360.339	4347.960	4288.978	4280.968	4318.105
40.5	4310.823	4298.444	4238.005	4232.180	4269.317
41.0	4261.307	4249.656	4189.945	4183.392	4220.529
41.5	4211.791	4199.412	4141.885	4133.875	4171.013
42.0	4161.546	4149.895	4093.097	4084.359	4121.496
42.5	4112.758	4100.379	4045.766	4034.843	4073.437
43.0	4063.242	4050.863	3998.434	3986.055	4026.105
43.5	4014.454	4001.347	3950.374	3935.811	3978.045
44.0	3965.666	3952.559	3903.771	3886.294	3929.257
44.5	3916.878	3900.858	3855.711	3837.506	3881.925
45.0	3868.818	3848.429	3808.379	3787.990	3833.865
45.5	3820.758	3801.826	3761.047	3738.474	3783.621
46.0	3771.970	3753.038	3713.716	3688.958	3734.833
46.5	3725.367	3699.152	3665.656	3639.442	3684.589
47.0	3677.307	3654.005	3618.324	3589.925	3634.344
47.5	3628.519	3608.130	3570.264	3541.137	3584.100
48.0	3580.459	3559.342	3522.933	3491.621	3532.399
48.5	3532.399	3509.826	3474.873	3442.833	3481.427
49.0	3484.339	3461.038	3427.541	3393.317	3431.182
49.5	3436.279	3412.249	3380.210	3345.985	3379.481
50.0	3387.491	3362.733	3332.878	3297.925	3328.509
50.5	3338.703	3313.217	3286.274	3247.681	3277.536
51.0	3289.187	3264.429	3238.943	3198.165	3225.836
51.5	3240.399	3215.641	3192.339	3150.833	3174.863
52.0	3190.883	3167.581	3145.008	3102.045	3122.434
52.5	3139.910	3118.793	3098.404	3053.257	3070.005
53.0	3089.666	3070.005	3051.072	3005.197	3017.576
53.5	3040.150	3021.217	3003.741	2957.137	2965.147
54.0	2990.634	2973.157	2956.409	2909.077	2912.718
54.5	2941.117	2925.097	2908.349	2859.561	2860.289

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**CANDELA TABULATION - (Cont.)**

55.0	2890.873	2877.037	2860.289	2810.773	2807.132
55.5	2842.085	2828.249	2812.958	2760.529	2754.703
56.0	2792.569	2779.461	2764.170	2711.013	2702.274
56.5	2743.052	2730.673	2712.469	2660.768	2649.845
57.0	2693.536	2682.614	2661.496	2610.524	2596.688
57.5	2644.748	2633.826	2617.077	2559.551	2543.531
58.0	2595.232	2585.037	2569.746	2508.579	2491.102
58.5	2545.716	2536.249	2520.958	2456.878	2437.217
59.0	2496.200	2486.733	2472.170	2404.449	2384.060
59.5	2446.683	2437.945	2423.382	2352.748	2331.631
60.0	2397.895	2388.429	2373.865	2300.319	2285.756
60.5	2348.379	2338.913	2325.806	2248.619	2228.229
61.0	2298.863	2289.397	2277.746	2196.918	2167.062
61.5	2249.347	2240.609	2228.229	2144.489	2111.721
62.0	2200.559	2190.364	2178.713	2092.060	2057.107
62.5	2150.314	2140.848	2129.197	2040.359	2001.766
63.0	2100.798	2092.060	2080.409	1987.930	1947.152
63.5	2050.554	2042.544	2032.349	1936.958	1891.811
64.0	2000.309	1993.756	1983.561	1885.257	1837.197
64.5	1950.793	1944.968	1934.045	1834.284	1782.584
65.0	1902.005	1896.180	1884.529	1782.584	1728.698
65.5	1853.217	1847.392	1836.469	1731.611	1675.541
66.0	1804.429	1798.604	1787.681	1680.638	1622.384
66.5	1755.641	1751.272	1738.893	1629.666	1569.227
67.0	1706.853	1703.212	1690.105	1574.324	1516.798
67.5	1658.793	1655.152	1641.317	1525.536	1465.097
68.0	1610.733	1607.092	1591.801	1476.748	1413.397
68.5	1563.402	1559.761	1543.013	1426.504	1362.424
69.0	1516.070	1511.701	1493.496	1375.531	1311.451
69.5	1469.466	1465.097	1444.708	1325.287	1261.935
70.0	1422.863	1417.766	1395.920	1275.042	1212.419
70.5	1376.988	1370.434	1347.132	1225.526	1163.631
71.0	1331.112	1323.102	1299.072	1176.010	1115.571
71.5	1285.237	1277.227	1251.013	1127.950	1067.511
72.0	1240.090	1230.623	1202.953	1079.890	1020.908
72.5	1194.943	1184.748	1155.621	1032.559	975.032
73.0	1150.524	1138.873	1109.746	985.955	929.157
73.5	1106.105	1093.726	1063.142	940.080	884.738
74.0	1060.958	1048.579	1017.267	895.661	840.319
74.5	1017.995	1004.160	972.120	851.242	797.357
75.0	973.576	960.469	927.701	807.551	755.122
75.5	930.613	916.778	882.554	764.589	713.616
76.0	888.379	874.544	838.863	723.082	674.294
76.5	846.145	832.309	795.900	682.304	634.973
77.0	804.638	790.803	752.938	642.983	594.923
77.5	763.860	750.753	711.431	604.389	556.329
78.0	723.810	710.703	669.925	566.524	522.833
78.5	684.489	671.382	629.147	530.115	490.065
79.0	645.895	632.788	589.825	494.434	457.297
79.5	608.030	594.923	550.504	459.481	425.257
80.0	570.893	557.786	511.910	425.985	394.673
80.5	534.484	522.105	474.773	396.130	364.818
81.0	499.531	486.424	437.636	367.731	337.147
81.5	465.307	451.471	401.955	334.234	310.933
82.0	431.082	417.975	368.459	305.107	285.446
82.5	397.586	384.479	335.691	278.165	260.688

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**CANDELA TABULATION - (Cont.)**

83.0	364.818	351.711	304.379	252.678	237.387
83.5	333.506	320.399	273.796	228.648	215.541
84.0	302.195	289.815	244.668	206.075	195.152
84.5	271.611	259.232	217.726	184.229	175.491
85.0	241.756	230.105	192.239	164.569	156.559
85.5	211.900	201.706	168.209	144.908	137.626
86.0	183.501	174.763	146.364	125.975	118.693
86.5	154.374	147.820	124.519	107.771	102.673
87.0	126.703	122.334	104.130	93.207	89.566
87.5	100.489	99.032	85.925	80.100	77.915
88.0	76.459	77.187	71.362	66.264	65.536
88.5	54.613	58.254	56.798	56.070	55.342
89.0	34.224	42.234	45.875	48.788	48.788
89.5	20.389	29.855	37.137	42.234	42.234
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-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-2-L180-835-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-2-L180-835-HA-ND-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2587.66	N.A.	15.40
0-30	5253.02	N.A.	31.30
0-40	8255.85	N.A.	49.20
0-60	13752.51	N.A.	82.00
0-80	16528.84	N.A.	98.60
0-90	16763.71	N.A.	100.00
10-90	16072.53	N.A.	95.90
20-40	5668.18	N.A.	33.80
20-50	8619.43	N.A.	51.40
40-70	7323.34	N.A.	43.70
60-80	2776.33	N.A.	16.60
70-80	949.66	N.A.	5.70
80-90	234.87	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	16763.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	691.18
10-20	1896.48
20-30	2665.36
30-40	3002.83
40-50	2951.25
50-60	2545.42
60-70	1826.67
70-80	949.66
80-90	234.87
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-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-2-L180-835-HA-ND-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

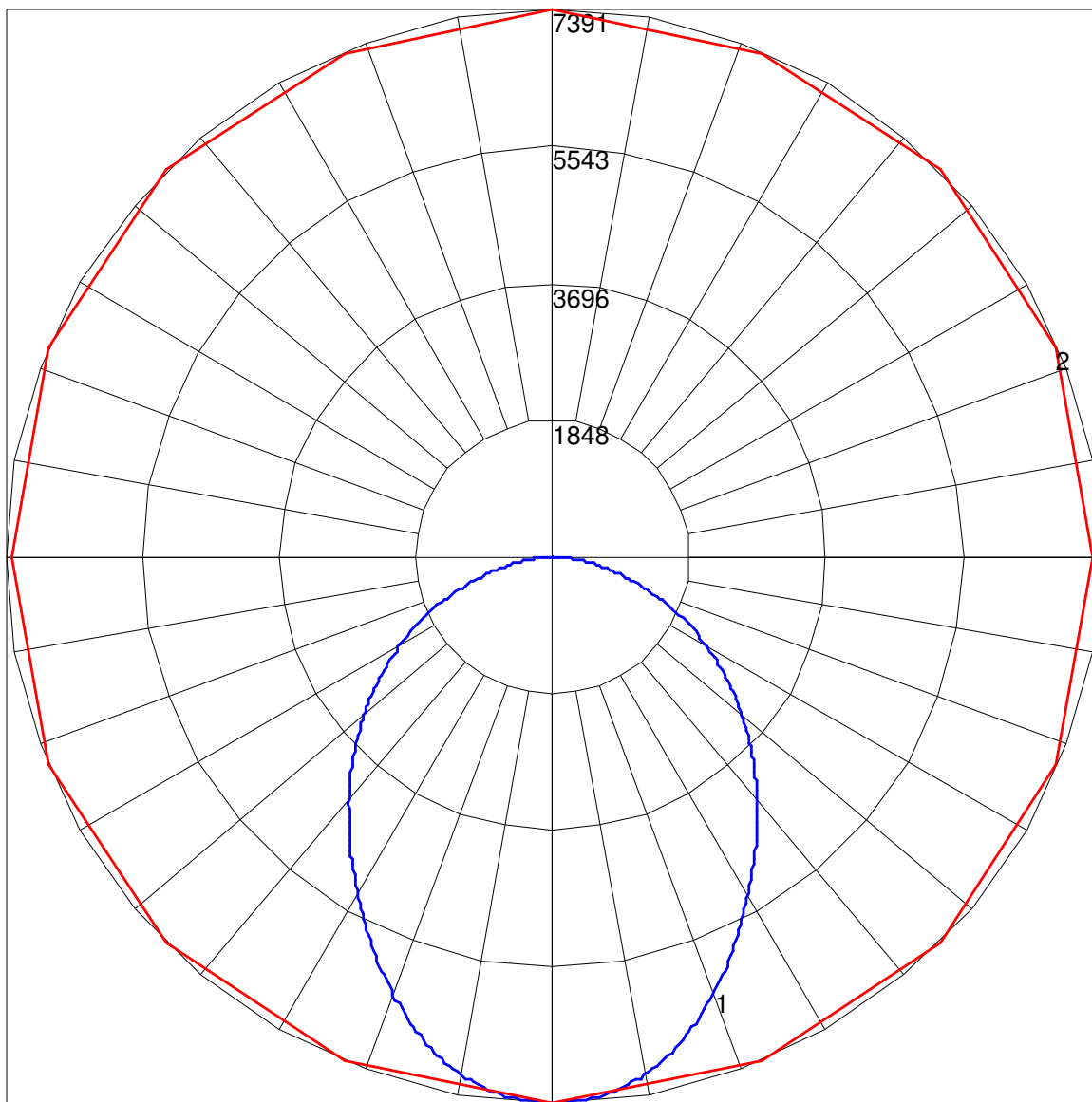
Reflectances

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	23.7	25.2	25.5
	3H	25.2	26.6	25.6	27.0	27.3	24.8	26.2	25.1	26.5	26.9
	4H	25.8	27.1	26.2	27.5	27.9	25.2	26.6	25.6	26.9	27.3
	6H	26.2	27.5	26.6	27.8	28.2	25.5	26.7	25.9	27.1	27.5
	8H	26.4	27.5	26.8	27.9	28.3	25.5	26.7	26.0	27.1	27.5
	12H	26.4	27.6	26.9	28.0	28.4	25.6	26.7	26.0	27.1	27.5
4H	2H	24.1	25.4	24.5	25.8	26.2	23.9	25.3	24.3	25.6	26.0
	3H	26.0	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	28.6	26.1	27.2	26.6	27.6	28.0
	6H	27.3	28.1	27.7	28.6	29.0	26.5	27.4	26.9	27.8	28.3
	8H	27.4	28.3	27.9	28.7	29.2	26.6	27.4	27.0	27.9	28.3
	12H	27.5	28.3	28.0	28.8	29.2	26.6	27.4	27.1	27.9	28.3
8H	4H	26.9	27.8	27.4	28.2	28.7	26.4	27.3	26.9	27.7	28.2
	6H	27.6	28.3	28.1	28.8	29.2	26.9	27.6	27.4	28.1	28.5
	8H	27.8	28.4	28.3	29.0	29.4	27.0	27.6	27.5	28.1	28.6
	12H	28.0	28.6	28.5	29.1	29.6	27.1	27.7	27.6	28.1	28.7
12H	4H	26.9	27.7	27.4	28.2	28.6	26.5	27.2	26.9	27.7	28.1
	6H	27.6	28.2	28.1	28.7	29.2	26.9	27.6	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 = 7391.023 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.)