



## IES INDOOR REPORT

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

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 14629546.02  
[TESTLAB] UL Verification Services Inc.  
[ISSUEDATE] 2023-03-13  
[TESTDATE] 1/5/2023  
[MANUFAC] H E Williams Inc  
[LUMCAT] GS-2-L180-835-HA-MD-DIM-UNV  
[LUMINAIRE] White aluminum housing, prismatic lense enclosure  
[LAMP] 448 White LEDs  
[BALLAST] ULT D21CC80UNVPW-C  
[OTHER] 26 C, 276.949 V, 0.623316 A, 169.009 W, 0.979045 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	16589
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	116
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.28
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	31540	30647	26799
55	23817	22336	18870
65	18505	16733	15572
75	17822	14556	15676
85	15932	10806	12007

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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	7499.658	7499.658	7499.658	7499.658	7499.658
0.5	7434.127	7492.377	7514.220	7499.658	7506.939
1.0	7434.127	7492.377	7514.220	7492.377	7506.939
1.5	7434.127	7492.377	7514.220	7492.377	7506.939
2.0	7426.846	7492.377	7506.939	7485.095	7499.658
2.5	7426.846	7485.095	7506.939	7485.095	7492.377
3.0	7419.564	7477.814	7499.658	7477.814	7485.095
3.5	7419.564	7477.814	7492.377	7470.533	7485.095
4.0	7412.283	7470.533	7485.095	7463.252	7477.814
4.5	7405.002	7463.252	7477.814	7455.970	7470.533
5.0	7405.002	7455.970	7477.814	7455.970	7463.252
5.5	7397.721	7448.689	7470.533	7448.689	7455.970
6.0	7390.439	7441.408	7463.252	7441.408	7448.689
6.5	7383.158	7441.408	7455.970	7434.127	7441.408
7.0	7375.877	7426.846	7448.689	7426.846	7434.127
7.5	7361.315	7419.564	7441.408	7419.564	7426.846
8.0	7354.033	7412.283	7434.127	7412.283	7419.564
8.5	7346.752	7405.002	7426.846	7405.002	7405.002
9.0	7332.190	7390.439	7412.283	7397.721	7397.721
9.5	7324.908	7383.158	7405.002	7383.158	7390.439
10.0	7310.346	7375.877	7397.721	7375.877	7375.877
10.5	7295.784	7361.315	7383.158	7361.315	7368.596
11.0	7288.502	7346.752	7368.596	7346.752	7354.033
11.5	7274.668	7332.190	7354.033	7332.190	7339.471
12.0	7261.562	7317.627	7339.471	7317.627	7324.908
12.5	7247.728	7303.065	7324.908	7303.065	7310.346
13.0	7232.437	7288.502	7310.346	7288.502	7295.784
13.5	7214.962	7268.843	7295.784	7270.299	7281.221
14.0	7197.487	7251.368	7273.212	7253.553	7264.474
14.5	7178.556	7233.165	7254.281	7236.078	7248.456
15.0	7158.897	7215.690	7235.349	7217.146	7231.709
15.5	7137.781	7196.031	7214.962	7198.215	7214.962
16.0	7116.666	7175.643	7193.118	7179.284	7196.031
16.5	7094.822	7154.528	7172.003	7159.625	7176.372
17.0	7072.250	7131.956	7149.431	7138.509	7155.256
17.5	7048.222	7107.928	7127.587	7117.394	7133.412
18.0	7023.466	7083.900	7105.744	7094.822	7110.841
18.5	7000.166	7059.144	7082.444	7071.522	7085.356
19.0	6975.410	7034.388	7059.144	7047.494	7061.328
19.5	6951.382	7008.175	7035.116	7022.738	7035.844
20.0	6925.898	6981.235	7007.447	6998.710	7011.816
20.5	6898.229	6952.110	6977.594	6974.682	6984.875
21.0	6869.832	6920.801	6944.829	6949.197	6958.663
21.5	6840.707	6889.491	6917.160	6921.529	6930.994
22.0	6810.126	6858.182	6888.035	6893.860	6903.326
22.5	6777.361	6824.689	6855.270	6864.007	6873.473
23.0	6743.867	6791.195	6821.048	6832.698	6841.435
23.5	6708.917	6756.973	6786.826	6799.932	6809.398
24.0	6671.783	6720.567	6750.420	6765.711	6776.633
24.5	6635.377	6683.433	6714.742	6730.033	6743.139
25.0	6597.514	6646.299	6679.064	6692.898	6708.189
25.5	6557.468	6606.252	6641.202	6654.308	6672.511
26.0	6518.149	6567.661	6603.339	6614.261	6633.921
26.5	6478.102	6526.159	6563.293	6574.215	6594.602

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**CANDELA TABULATION - (Cont.)**

27.0	6435.871	6485.384	6522.518	6531.983	6553.827
27.5	6392.912	6443.153	6480.287	6489.024	6511.596
28.0	6347.769	6399.465	6436.599	6443.881	6467.181
28.5	6302.625	6354.322	6390.728	6398.009	6420.581
29.0	6251.656	6307.722	6344.128	6349.953	6371.797
29.5	6202.872	6259.666	6296.072	6300.441	6320.828
30.0	6152.632	6210.154	6245.832	6248.744	6267.675
30.5	6100.207	6159.913	6193.407	6194.135	6210.882
31.0	6046.326	6108.216	6140.254	6134.429	6151.176
31.5	5991.717	6055.792	6084.188	6071.810	6087.829
32.0	5937.108	6003.367	6028.851	6014.289	6031.035
32.5	5879.586	5946.573	5970.601	5952.398	5968.417
33.0	5823.521	5889.780	5910.895	5884.683	5880.314
33.5	5764.543	5830.074	5848.277	5816.239	5799.493
34.0	5704.837	5768.183	5784.930	5743.427	5717.215
34.5	5645.859	5705.565	5719.399	5666.246	5632.025
35.0	5582.512	5642.218	5651.684	5586.881	5542.466
35.5	5519.166	5577.415	5581.056	5503.875	5447.810
36.0	5452.907	5509.700	5508.244	5417.229	5350.969
36.5	5385.191	5439.800	5431.791	5326.213	5250.489
37.0	5316.020	5368.444	5353.882	5233.742	5148.551
37.5	5245.392	5295.632	5273.788	5136.902	5044.430
38.0	5171.851	5222.092	5192.967	5040.061	4937.396
38.5	5096.855	5146.367	5109.233	4940.309	4830.362
39.0	5020.402	5069.914	5024.043	4838.371	4720.416
39.5	4941.765	4992.733	4936.668	4735.706	4611.197
40.0	4862.399	4914.096	4847.837	4632.313	4501.251
40.5	4780.850	4834.731	4756.822	4527.463	4389.848
41.0	4698.572	4753.909	4665.807	4423.342	4271.892
41.5	4617.022	4671.631	4573.335	4317.764	4151.024
42.0	4534.016	4588.626	4478.679	4214.371	4050.543
42.5	4451.010	4504.892	4385.479	4118.259	3950.062
43.0	4367.276	4420.429	4292.280	4014.137	3844.485
43.5	4283.542	4334.511	4199.080	3903.463	3737.451
44.0	4199.808	4248.593	4105.152	3803.710	3631.873
44.5	4116.802	4161.218	4011.225	3703.229	3529.936
45.0	4034.525	4073.115	3920.209	3604.933	3427.999
45.5	3950.791	3986.469	3827.738	3508.092	3328.246
46.0	3867.057	3899.822	3736.723	3413.436	3232.134
46.5	3785.507	3812.447	3647.892	3321.693	3138.934
47.0	3703.229	3726.529	3558.333	3231.406	3047.919
47.5	3620.951	3641.339	3470.958	3142.575	2960.545
48.0	3540.130	3556.148	3384.312	3056.657	2876.082
48.5	3459.308	3473.142	3298.393	2972.923	2793.805
49.0	3378.487	3390.865	3214.659	2889.917	2715.167
49.5	3296.937	3308.587	3132.381	2810.551	2639.443
50.0	3216.844	3227.765	3050.832	2732.642	2566.630
50.5	3138.206	3147.672	2970.010	2656.189	2495.274
51.0	3060.297	3069.035	2892.101	2583.377	2426.831
51.5	2981.660	2991.854	2814.192	2507.653	2362.028
52.0	2905.935	2915.401	2739.195	2439.209	2297.953
52.5	2829.483	2840.404	2667.839	2374.406	2236.791
53.0	2754.486	2766.136	2599.396	2310.331	2177.813
53.5	2680.946	2692.596	2524.399	2247.713	2120.292
54.0	2609.590	2620.511	2451.587	2186.551	2064.954
54.5	2539.690	2549.884	2383.144	2127.573	2011.073

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**CANDELA TABULATION - (Cont.)**

55.0	2471.246	2479.984	2317.613	2070.051	1957.920
55.5	2402.803	2410.812	2252.810	2013.986	1906.952
56.0	2338.000	2343.825	2189.463	1959.377	1857.440
56.5	2273.925	2277.566	2127.573	1906.952	1809.383
57.0	2210.579	2212.763	2067.139	1855.255	1762.056
57.5	2150.145	2149.416	2008.161	1805.015	1716.184
58.0	2091.895	2088.254	1950.639	1756.231	1671.768
58.5	2034.373	2027.820	1893.846	1708.903	1628.809
59.0	1978.308	1969.570	1838.508	1662.303	1587.306
59.5	1922.971	1912.049	1784.627	1617.159	1546.531
60.0	1870.546	1855.983	1732.203	1574.200	1507.941
60.5	1818.849	1802.830	1681.234	1531.241	1470.807
61.0	1768.609	1750.406	1630.994	1490.466	1433.672
61.5	1719.096	1699.437	1582.209	1450.419	1398.723
62.0	1671.768	1650.653	1534.881	1412.557	1365.229
62.5	1625.897	1603.325	1489.010	1375.423	1333.192
63.0	1580.753	1558.909	1443.866	1339.017	1302.610
63.5	1534.881	1516.678	1400.907	1304.067	1272.757
64.0	1482.457	1468.622	1359.404	1270.573	1244.361
64.5	1448.963	1427.847	1318.629	1238.536	1216.692
65.0	1414.741	1388.529	1279.311	1207.226	1190.480
65.5	1376.151	1349.938	1241.448	1177.373	1164.995
66.0	1340.473	1307.707	1205.042	1147.520	1140.239
66.5	1304.795	1270.573	1169.364	1119.124	1116.211
67.0	1271.301	1234.895	1134.414	1091.455	1092.911
67.5	1238.536	1199.945	1101.649	1064.515	1069.611
68.0	1207.226	1166.452	1069.611	1038.302	1047.040
68.5	1176.645	1133.686	1038.302	1012.818	1024.468
69.0	1147.520	1101.649	1007.721	987.334	1002.624
69.5	1119.852	1070.340	978.596	962.577	980.780
70.0	1092.183	1039.758	949.471	938.549	959.665
70.5	1065.243	1009.905	921.803	913.793	937.821
71.0	1039.030	980.780	893.406	889.765	916.706
71.5	1012.818	951.656	866.465	865.737	894.862
72.0	988.062	922.531	839.525	841.709	873.018
72.5	962.577	894.134	810.400	816.953	850.447
73.0	937.821	865.737	784.188	792.925	827.875
73.5	913.793	837.340	759.431	767.441	805.303
74.0	889.765	808.944	733.219	742.685	782.003
74.5	860.640	780.547	706.278	717.200	757.975
75.0	834.428	752.150	681.522	691.716	733.947
75.5	807.487	724.482	656.766	665.504	708.463
76.0	779.819	696.085	626.913	640.019	683.707
76.5	752.150	667.688	599.973	613.807	657.494
77.0	723.753	640.019	573.032	587.595	631.282
77.5	695.357	611.623	546.092	561.382	604.341
78.0	665.504	583.954	519.879	534.442	576.673
78.5	634.922	555.557	492.939	508.229	549.004
79.0	605.069	527.889	466.726	482.017	520.607
79.5	575.216	499.492	439.058	455.076	492.211
80.0	544.635	471.823	412.845	428.864	463.814
80.5	514.054	444.154	386.633	402.652	434.689
81.0	483.473	416.486	360.420	376.439	406.292
81.5	453.620	389.545	334.208	350.955	377.167
82.0	423.767	363.333	308.724	325.471	348.770
82.5	393.914	336.392	283.240	300.714	321.102

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**CANDELA TABULATION - (Cont.)**

83.0	364.789	307.996	259.211	275.958	293.433
83.5	335.664	284.696	235.912	251.930	267.221
84.0	307.268	262.124	212.612	227.902	240.280
84.5	278.871	236.640	190.768	205.330	214.796
85.0	251.202	214.068	170.381	182.759	189.312
85.5	224.262	192.224	149.993	161.643	166.012
86.0	196.593	169.652	131.062	141.256	141.984
86.5	170.381	147.809	113.587	119.412	120.868
87.0	144.168	125.965	96.112	99.025	99.753
87.5	118.684	104.121	79.365	80.093	80.093
88.0	93.200	84.462	64.075	62.619	62.619
88.5	68.443	66.987	50.240	48.056	45.872
89.0	48.056	51.697	38.590	35.678	33.494
89.5	32.765	38.590	27.669	25.484	25.484
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-MD-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-MD-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-MD-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2745.22	N.A.	16.50
0-30	5811.71	N.A.	35.00
0-40	9292.55	N.A.	56.00
0-60	14298.62	N.A.	86.20
0-80	16361.68	N.A.	98.60
0-90	16588.77	N.A.	100.00
10-90	15879.74	N.A.	95.70
20-40	6547.33	N.A.	39.50
20-50	9505.83	N.A.	57.30
40-70	6304.65	N.A.	38.00
60-80	2063.06	N.A.	12.40
70-80	764.47	N.A.	4.60
80-90	227.10	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	16588.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	709.04
10-20	2036.18
20-30	3066.49
30-40	3480.84
40-50	2958.49
50-60	2047.57
60-70	1298.59
70-80	764.47
80-90	227.10
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-MD-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	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GS-2-L180-835-HA-MD-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

X=2H	Y=2H	22.3	23.8	22.6	24.1	24.4	21.0	22.5	21.4	22.8	23.1
	3H	23.7	25.0	24.1	25.4	25.7	22.6	23.9	22.9	24.2	24.6
	4H	24.3	25.6	24.7	25.9	26.3	23.3	24.5	23.7	24.9	25.3
	6H	24.9	26.1	25.3	26.4	26.8	23.9	25.0	24.3	25.4	25.8
	8H	25.1	26.2	25.5	26.6	27.0	24.0	25.1	24.5	25.5	25.9
	12H	25.2	26.3	25.7	26.7	27.1	24.2	25.2	24.6	25.6	26.0

UGR Viewed Endwise

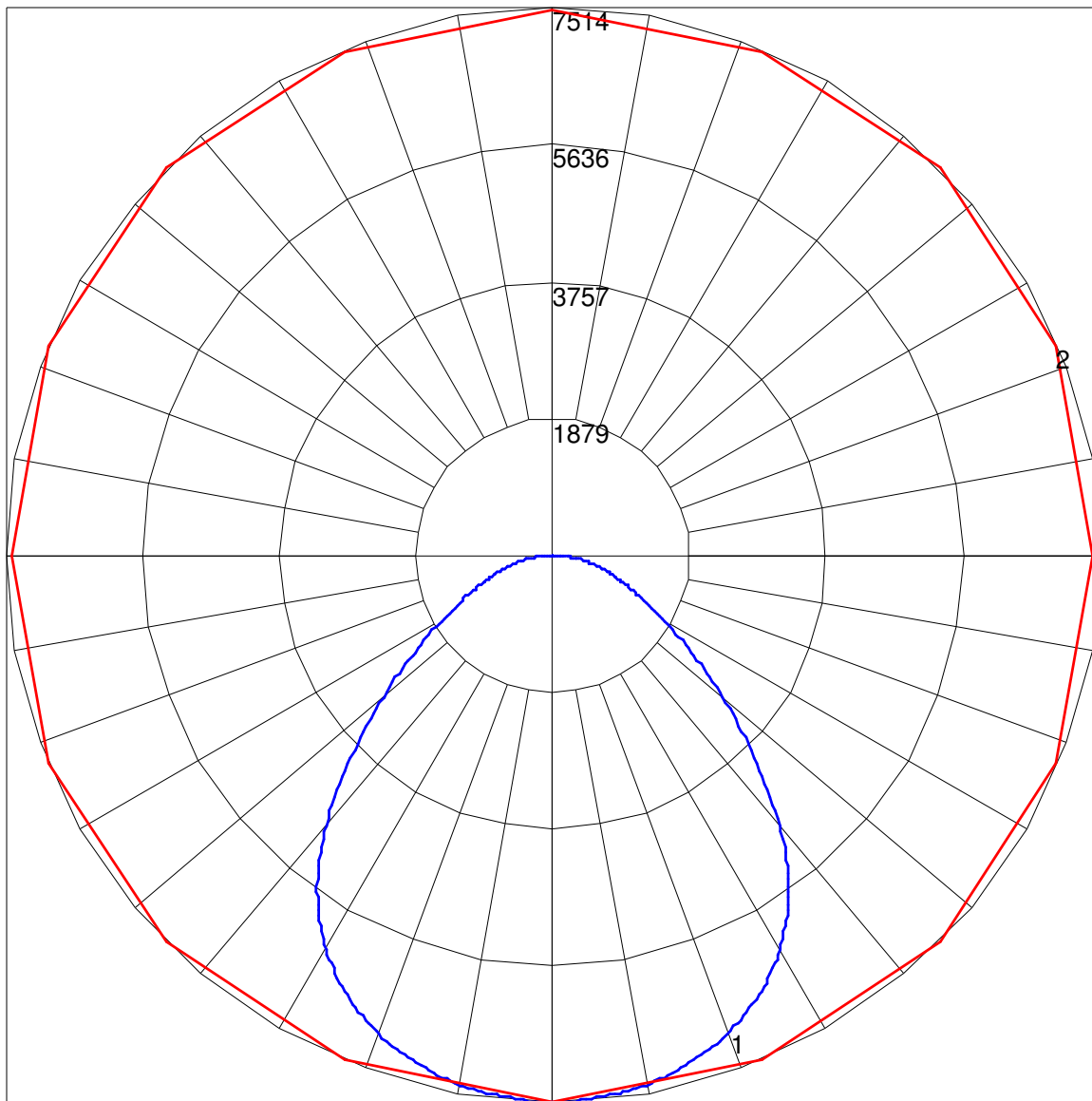
4H	2H	22.6	23.9	23.0	24.2	24.6	21.6	22.8	22.0	23.2	23.6
	3H	24.3	25.3	24.7	25.7	26.1	23.4	24.4	23.8	24.8	25.2
	4H	25.1	26.0	25.5	26.4	26.9	24.2	25.1	24.6	25.6	26.0
	6H	25.8	26.6	26.2	27.0	27.5	24.9	25.7	25.4	26.2	26.6
	8H	26.0	26.8	26.5	27.2	27.7	25.1	25.9	25.6	26.4	26.8
	12H	26.2	26.9	26.7	27.4	27.9	25.3	26.0	25.8	26.5	26.9

8H	4H	25.3	26.1	25.7	26.5	27.0	24.5	25.3	25.0	25.7	26.2
	6H	26.1	26.7	26.6	27.2	27.7	25.3	26.0	25.8	26.4	26.9
	8H	26.4	27.0	26.9	27.5	28.0	25.6	26.2	26.1	26.7	27.2
	12H	26.7	27.2	27.2	27.7	28.3	25.8	26.4	26.4	26.9	27.4

12H	4H	25.3	26.0	25.8	26.5	26.9	24.5	25.2	25.0	25.7	26.2
	6H	26.1	26.7	26.7	27.2	27.7	25.4	26.0	25.9	26.4	27.0
	8H	26.5	27.0	27.0	27.5	28.1	25.7	26.2	26.2	26.7	27.3

Maximum UGR = 28.3

POLAR GRAPH



Maximum Candela = 7514.22 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.)