



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14629546.02
[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-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	15933	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	7499.674	7499.674	7499.674	7499.674	7499.674
0.5	7434.143	7492.393	7514.237	7499.674	7506.956
1.0	7434.143	7492.393	7514.237	7492.393	7506.956
1.5	7434.143	7492.393	7514.237	7492.393	7506.956
2.0	7426.862	7492.393	7506.956	7485.112	7499.674
2.5	7426.862	7485.112	7506.956	7485.112	7492.393
3.0	7419.581	7477.831	7499.674	7477.831	7485.112
3.5	7419.581	7477.831	7492.393	7470.549	7485.112
4.0	7412.300	7470.549	7485.112	7463.268	7477.831
4.5	7405.018	7463.268	7477.831	7455.987	7470.549
5.0	7405.018	7455.987	7477.831	7455.987	7463.268
5.5	7397.737	7448.706	7470.549	7448.706	7455.987
6.0	7390.456	7441.424	7463.268	7441.424	7448.706
6.5	7383.175	7441.424	7455.987	7434.143	7441.424
7.0	7375.893	7426.862	7448.706	7426.862	7434.143
7.5	7361.331	7419.581	7441.424	7419.581	7426.862
8.0	7354.050	7412.300	7434.143	7412.300	7419.581
8.5	7346.768	7405.018	7426.862	7405.018	7405.018
9.0	7332.206	7390.456	7412.300	7397.737	7397.737
9.5	7324.925	7383.175	7405.018	7383.175	7390.456
10.0	7310.362	7375.893	7397.737	7375.893	7375.893
10.5	7295.800	7361.331	7383.175	7361.331	7368.612
11.0	7288.518	7346.768	7368.612	7346.768	7354.050
11.5	7274.684	7332.206	7354.050	7332.206	7339.487
12.0	7261.578	7317.643	7339.487	7317.643	7324.925
12.5	7247.744	7303.081	7324.925	7303.081	7310.362
13.0	7232.453	7288.518	7310.362	7288.518	7295.800
13.5	7214.978	7268.859	7295.800	7270.315	7281.237
14.0	7197.503	7251.384	7273.228	7253.569	7264.490
14.5	7178.572	7233.181	7254.297	7236.094	7248.472
15.0	7158.912	7215.706	7235.365	7217.162	7231.725
15.5	7137.797	7196.047	7214.978	7198.231	7214.978
16.0	7116.681	7175.659	7193.134	7179.300	7196.047
16.5	7094.838	7154.544	7172.019	7159.641	7176.387
17.0	7072.266	7131.972	7149.447	7138.525	7155.272
17.5	7048.238	7107.944	7127.603	7117.409	7133.428
18.0	7023.481	7083.916	7105.759	7094.838	7110.856
18.5	7000.181	7059.160	7082.459	7071.538	7085.372
19.0	6975.425	7034.403	7059.160	7047.510	7061.344
19.5	6951.397	7008.191	7035.131	7022.753	7035.860
20.0	6925.913	6981.250	7007.463	6998.725	7011.831
20.5	6898.244	6952.125	6977.610	6974.697	6984.891
21.0	6869.847	6920.816	6944.844	6949.213	6958.678
21.5	6840.722	6889.507	6917.175	6921.544	6931.010
22.0	6810.141	6858.197	6888.050	6893.875	6903.341
22.5	6777.376	6824.704	6855.285	6864.022	6873.488
23.0	6743.882	6791.210	6821.063	6832.713	6841.451
23.5	6708.932	6756.988	6786.841	6799.947	6809.413
24.0	6671.798	6720.582	6750.435	6765.726	6776.648
24.5	6635.392	6683.448	6714.757	6730.048	6743.154
25.0	6597.529	6646.313	6679.079	6692.913	6708.204
25.5	6557.482	6606.267	6641.216	6654.323	6672.526
26.0	6518.164	6567.676	6603.354	6614.276	6633.935
26.5	6478.117	6526.173	6563.307	6574.229	6594.617

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CANDELA TABULATION - (Cont.)

27.0	6435.886	6485.398	6522.532	6531.998	6553.842
27.5	6392.926	6443.167	6480.301	6489.039	6511.610
28.0	6347.783	6399.479	6436.614	6443.895	6467.195
28.5	6302.639	6354.336	6390.742	6398.023	6420.595
29.0	6251.670	6307.736	6344.142	6349.967	6371.811
29.5	6202.886	6259.680	6296.086	6300.455	6320.842
30.0	6152.645	6210.167	6245.845	6248.758	6267.689
30.5	6100.221	6159.927	6193.420	6194.149	6210.895
31.0	6046.339	6108.230	6140.267	6134.442	6151.189
31.5	5991.730	6055.805	6084.202	6071.824	6087.842
32.0	5937.121	6003.380	6028.864	6014.302	6031.049
32.5	5879.599	5946.586	5970.615	5952.411	5968.430
33.0	5823.534	5889.793	5910.908	5884.696	5880.327
33.5	5764.556	5830.087	5848.290	5816.252	5799.505
34.0	5704.849	5768.196	5784.943	5743.440	5717.227
34.5	5645.871	5705.578	5719.412	5666.259	5632.037
35.0	5582.525	5642.231	5651.696	5586.893	5542.478
35.5	5519.178	5577.428	5581.068	5503.887	5447.822
36.0	5452.919	5509.712	5508.256	5417.241	5350.981
36.5	5385.203	5439.812	5431.803	5326.225	5250.500
37.0	5316.031	5368.456	5353.894	5233.753	5148.563
37.5	5245.403	5295.644	5273.800	5136.913	5044.441
38.0	5171.863	5222.103	5192.978	5040.072	4937.407
38.5	5096.866	5146.378	5109.244	4940.319	4830.373
39.0	5020.413	5069.925	5024.054	4838.382	4720.426
39.5	4941.776	4992.744	4936.679	4735.717	4611.208
40.0	4862.410	4914.107	4847.848	4632.323	4501.261
40.5	4780.860	4834.742	4756.832	4527.473	4389.858
41.0	4698.582	4753.920	4665.817	4423.352	4271.902
41.5	4617.033	4671.642	4573.345	4317.774	4151.033
42.0	4534.026	4588.636	4478.689	4214.380	4050.552
42.5	4451.020	4504.901	4385.489	4118.268	3950.071
43.0	4367.286	4420.439	4292.289	4014.146	3844.493
43.5	4283.552	4334.521	4199.090	3903.471	3737.459
44.0	4199.818	4248.602	4105.162	3803.718	3631.881
44.5	4116.812	4161.227	4011.234	3703.237	3529.944
45.0	4034.534	4073.124	3920.218	3604.941	3428.006
45.5	3950.799	3986.477	3827.746	3508.100	3328.254
46.0	3867.065	3899.831	3736.731	3413.444	3232.141
46.5	3785.515	3812.456	3647.900	3321.700	3138.941
47.0	3703.237	3726.537	3558.341	3231.413	3047.926
47.5	3620.959	3641.347	3470.966	3142.582	2960.551
48.0	3540.138	3556.156	3384.319	3056.663	2876.089
48.5	3459.316	3473.150	3298.400	2972.929	2793.811
49.0	3378.494	3390.872	3214.666	2889.923	2715.173
49.5	3296.944	3308.594	3132.388	2810.558	2639.449
50.0	3216.851	3227.772	3050.838	2732.648	2566.636
50.5	3138.213	3147.679	2970.017	2656.195	2495.280
51.0	3060.304	3069.041	2892.107	2583.383	2426.836
51.5	2981.667	2991.860	2814.198	2507.658	2362.033
52.0	2905.942	2915.407	2739.201	2439.214	2297.958
52.5	2829.489	2840.411	2667.845	2374.411	2236.796
53.0	2754.492	2766.142	2599.402	2310.337	2177.818
53.5	2680.952	2692.602	2524.405	2247.718	2120.296
54.0	2609.595	2620.517	2451.593	2186.556	2064.959
54.5	2539.696	2549.889	2383.149	2127.578	2011.078

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55.0	2471.252	2479.989	2317.618	2070.056	1957.925
55.5	2402.808	2410.818	2252.815	2013.990	1906.956
56.0	2338.005	2343.830	2189.468	1959.381	1857.444
56.5	2273.930	2277.571	2127.578	1906.956	1809.387
57.0	2210.584	2212.768	2067.143	1855.259	1762.059
57.5	2150.149	2149.421	2008.165	1805.019	1716.188
58.0	2091.899	2088.259	1950.643	1756.234	1671.772
58.5	2034.378	2027.825	1893.850	1708.906	1628.813
59.0	1978.312	1969.575	1838.512	1662.306	1587.310
59.5	1922.975	1912.053	1784.631	1617.163	1546.535
60.0	1870.550	1855.987	1732.206	1574.203	1507.944
60.5	1818.853	1802.834	1681.238	1531.244	1470.810
61.0	1768.613	1750.409	1630.997	1490.469	1433.676
61.5	1719.100	1699.441	1582.213	1450.422	1398.726
62.0	1671.772	1650.656	1534.885	1412.560	1365.232
62.5	1625.900	1603.328	1489.013	1375.426	1333.195
63.0	1580.757	1558.913	1443.869	1339.020	1302.613
63.5	1534.885	1516.682	1400.910	1304.070	1272.760
64.0	1482.460	1468.626	1359.407	1270.576	1244.363
64.5	1448.966	1427.851	1318.632	1238.538	1216.695
65.0	1414.744	1388.532	1279.313	1207.229	1190.482
65.5	1376.154	1349.941	1241.451	1177.376	1164.998
66.0	1340.476	1307.710	1205.045	1147.523	1140.242
66.5	1304.798	1270.576	1169.367	1119.126	1116.214
67.0	1271.304	1234.898	1134.417	1091.457	1092.914
67.5	1238.538	1199.948	1101.651	1064.517	1069.614
68.0	1207.229	1166.454	1069.614	1038.304	1047.042
68.5	1176.648	1133.689	1038.304	1012.820	1024.470
69.0	1147.523	1101.651	1007.723	987.336	1002.626
69.5	1119.854	1070.342	978.598	962.580	980.783
70.0	1092.186	1039.761	949.473	938.551	959.667
70.5	1065.245	1009.908	921.805	913.795	937.823
71.0	1039.033	980.783	893.408	889.767	916.708
71.5	1012.820	951.658	866.467	865.739	894.864
72.0	988.064	922.533	839.527	841.711	873.020
72.5	962.580	894.136	810.402	816.955	850.449
73.0	937.823	865.739	784.189	792.927	827.877
73.5	913.795	837.342	759.433	767.442	805.305
74.0	889.767	808.945	733.221	742.686	782.005
74.5	860.642	780.549	706.280	717.202	757.977
75.0	834.430	752.152	681.524	691.718	733.949
75.5	807.489	724.483	656.768	665.505	708.464
76.0	779.821	696.086	626.915	640.021	683.708
76.5	752.152	667.689	599.974	613.808	657.496
77.0	723.755	640.021	573.033	587.596	631.283
77.5	695.358	611.624	546.093	561.383	604.343
78.0	665.505	583.955	519.880	534.443	576.674
78.5	634.924	555.558	492.940	508.230	549.005
79.0	605.071	527.890	466.727	482.018	520.608
79.5	575.218	499.493	439.059	455.077	492.212
80.0	544.637	471.824	412.846	428.865	463.815
80.5	514.055	444.155	386.634	402.652	434.690
81.0	483.474	416.487	360.421	376.440	406.293
81.5	453.621	389.546	334.209	350.956	377.168
82.0	423.768	363.334	308.724	325.471	348.771
82.5	393.915	336.393	283.240	300.715	321.103

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83.0	364.790	307.996	259.212	275.959	293.434
83.5	335.665	284.696	235.912	251.931	267.221
84.0	307.268	262.125	212.612	227.903	240.281
84.5	278.871	236.640	190.768	205.331	214.796
85.0	251.203	214.068	170.381	182.759	189.312
85.5	224.262	192.225	149.993	161.643	166.012
86.0	196.593	169.653	131.062	141.256	141.984
86.5	170.381	147.809	113.587	119.412	120.869
87.0	144.168	125.965	96.112	99.025	99.753
87.5	118.684	104.122	79.365	80.094	80.094
88.0	93.200	84.462	64.075	62.619	62.619
88.5	68.444	66.987	50.241	48.056	45.872
89.0	48.056	51.697	38.591	35.678	33.494
89.5	32.766	38.591	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-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-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-MD-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2745.22	N.A.	16.50
0-30	5811.72	N.A.	35.00
0-40	9292.57	N.A.	56.00
0-60	14298.65	N.A.	86.20
0-80	16361.71	N.A.	98.60
0-90	16588.81	N.A.	100.00
10-90	15879.77	N.A.	95.70
20-40	6547.35	N.A.	39.50
20-50	9505.85	N.A.	57.30
40-70	6304.67	N.A.	38.00
60-80	2063.06	N.A.	12.40
70-80	764.48	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	16588.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	709.04
10-20	2036.18
20-30	3066.5
30-40	3480.85
40-50	2958.5
50-60	2047.58
60-70	1298.59
70-80	764.48
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-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-MD-DIM-UNV_.IES

UGR TABLE - CORRECTED

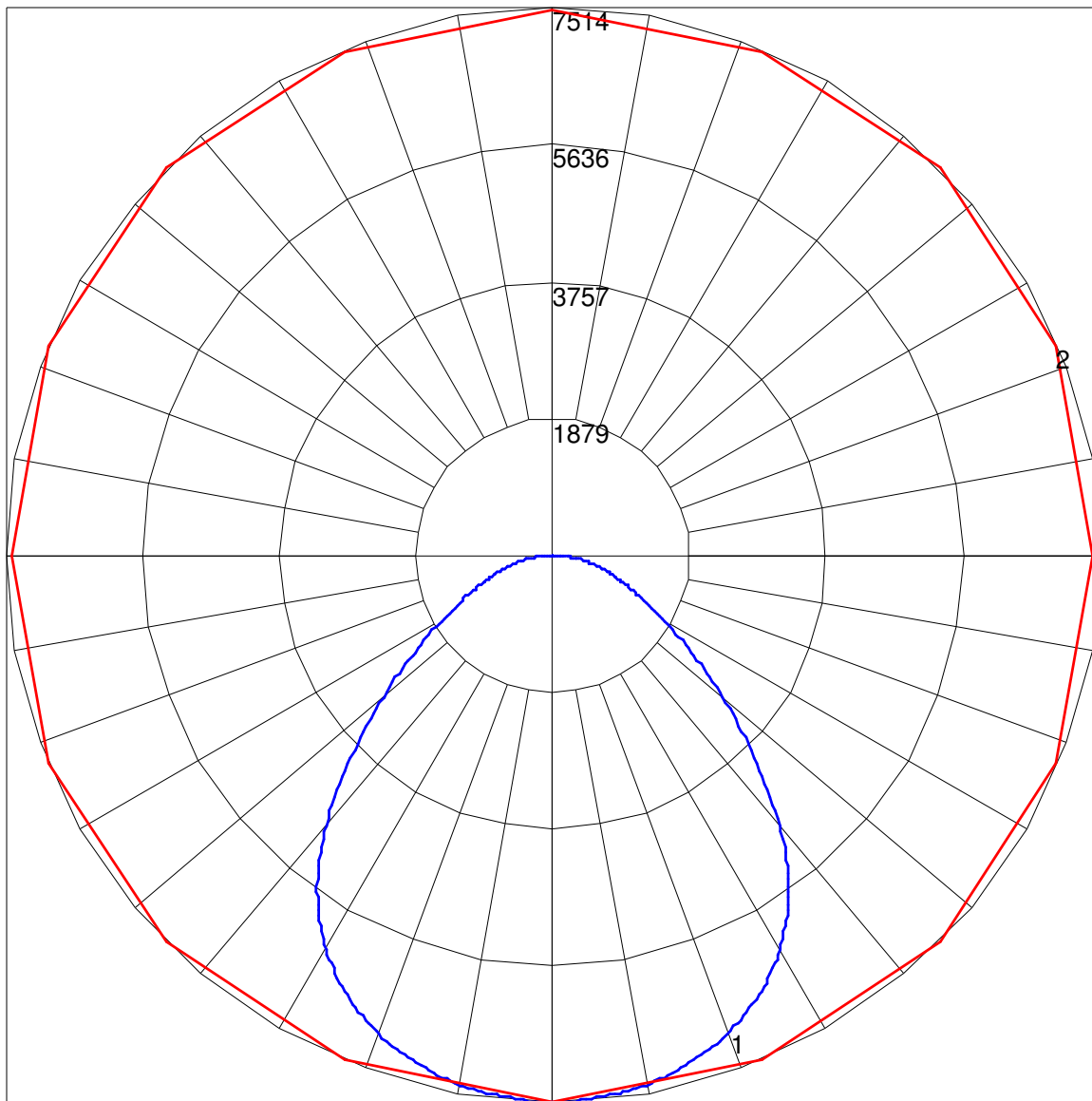
Reflectances

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					UGR Viewed Endwise				
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
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 = 7514.237 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.)