



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-2-L180-850-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-L180-850-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	17615
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
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	33491	32542	28456
55	25290	23718	20037
65	19650	17769	16535
75	18924	15456	16645
85	16918	11475	12750

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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	7963.572	7963.572	7963.572	7963.572	7963.572
0.5	7893.987	7955.840	7979.035	7963.572	7971.303
1.0	7893.987	7955.840	7979.035	7955.840	7971.303
1.5	7893.987	7955.840	7979.035	7955.840	7971.303
2.0	7886.256	7955.840	7971.303	7948.108	7963.572
2.5	7886.256	7948.108	7971.303	7948.108	7955.840
3.0	7878.524	7940.377	7963.572	7940.377	7948.108
3.5	7878.524	7940.377	7955.840	7932.645	7948.108
4.0	7870.792	7932.645	7948.108	7924.914	7940.377
4.5	7863.061	7924.914	7940.377	7917.182	7932.645
5.0	7863.061	7917.182	7940.377	7917.182	7924.914
5.5	7855.329	7909.450	7932.645	7909.450	7917.182
6.0	7847.597	7901.719	7924.914	7901.719	7909.450
6.5	7839.866	7901.719	7917.182	7893.987	7901.719
7.0	7832.134	7886.256	7909.450	7886.256	7893.987
7.5	7816.671	7878.524	7901.719	7878.524	7886.256
8.0	7808.939	7870.792	7893.987	7870.792	7878.524
8.5	7801.208	7863.061	7886.256	7863.061	7863.061
9.0	7785.744	7847.597	7870.792	7855.329	7855.329
9.5	7778.013	7839.866	7863.061	7839.866	7847.597
10.0	7762.550	7832.134	7855.329	7832.134	7832.134
10.5	7747.086	7816.671	7839.866	7816.671	7824.403
11.0	7739.355	7801.208	7824.403	7801.208	7808.939
11.5	7724.665	7785.744	7808.939	7785.744	7793.476
12.0	7710.748	7770.281	7793.476	7770.281	7778.013
12.5	7696.058	7754.818	7778.013	7754.818	7762.550
13.0	7679.821	7739.355	7762.550	7739.355	7747.086
13.5	7661.265	7718.479	7747.086	7720.026	7731.623
14.0	7642.709	7699.923	7723.118	7702.243	7713.840
14.5	7622.607	7680.594	7703.016	7683.687	7696.831
15.0	7601.732	7662.038	7682.914	7663.585	7679.048
15.5	7579.310	7641.163	7661.265	7643.483	7661.265
16.0	7556.888	7619.515	7638.070	7623.380	7641.163
16.5	7533.694	7597.093	7615.649	7602.505	7620.288
17.0	7509.725	7573.125	7591.681	7580.083	7597.866
17.5	7484.211	7547.610	7568.486	7557.662	7574.671
18.0	7457.924	7522.096	7545.291	7533.694	7550.703
18.5	7433.182	7495.809	7520.550	7508.952	7523.642
19.0	7406.895	7469.521	7495.809	7483.438	7498.128
19.5	7381.381	7441.687	7470.294	7457.150	7471.067
20.0	7354.320	7413.080	7440.914	7431.636	7445.553
20.5	7324.940	7382.154	7409.214	7406.122	7416.946
21.0	7294.786	7348.908	7374.422	7379.061	7389.112
21.5	7263.860	7315.662	7345.042	7349.681	7359.732
22.0	7231.387	7282.416	7314.115	7320.301	7330.352
22.5	7196.595	7246.850	7279.323	7288.601	7298.652
23.0	7161.029	7211.285	7242.984	7255.355	7264.633
23.5	7123.917	7174.946	7206.646	7220.563	7230.614
24.0	7084.486	7136.288	7167.988	7184.224	7195.822
24.5	7045.828	7096.857	7130.103	7146.339	7160.256
25.0	7005.624	7057.426	7092.218	7106.908	7123.144
25.5	6963.100	7014.902	7052.013	7065.930	7085.259
26.0	6921.349	6973.924	7011.809	7023.406	7044.282
26.5	6878.825	6929.854	6969.285	6980.882	7002.531

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CANDELA TABULATION - (Cont.)

27.0	6833.982	6886.557	6925.988	6936.039	6959.234
27.5	6788.365	6841.713	6881.145	6890.422	6914.390
28.0	6740.429	6795.324	6834.755	6842.486	6867.228
28.5	6692.493	6747.387	6786.046	6793.777	6817.745
29.0	6638.372	6697.905	6736.563	6742.748	6765.943
29.5	6586.570	6646.876	6685.534	6690.173	6711.822
30.0	6533.221	6594.301	6632.186	6635.279	6655.381
30.5	6477.554	6540.953	6576.519	6577.292	6595.074
31.0	6420.340	6486.059	6520.078	6513.892	6531.675
31.5	6362.353	6430.391	6460.544	6447.400	6464.410
32.0	6304.365	6374.723	6401.784	6386.321	6404.103
32.5	6243.286	6314.417	6339.931	6320.602	6337.611
33.0	6183.752	6254.110	6276.532	6248.698	6244.059
33.5	6121.126	6190.711	6210.040	6176.020	6158.238
34.0	6057.727	6124.992	6142.775	6098.704	6070.870
34.5	5995.101	6058.500	6073.190	6016.749	5980.410
35.0	5927.835	5991.235	6001.286	5932.474	5885.311
35.5	5860.570	5922.423	5926.289	5844.334	5784.800
36.0	5790.213	5850.519	5848.973	5752.328	5681.970
36.5	5718.308	5776.296	5767.791	5655.682	5575.273
37.0	5644.858	5700.526	5685.062	5557.491	5467.031
37.5	5569.861	5623.209	5600.015	5454.660	5356.468
38.0	5491.772	5545.120	5514.194	5351.829	5242.814
38.5	5412.136	5464.711	5425.280	5245.906	5129.159
39.0	5330.954	5383.529	5334.820	5137.664	5012.411
39.5	5247.453	5301.574	5242.040	5028.648	4896.437
40.0	5163.178	5218.072	5147.715	4918.859	4779.689
40.5	5076.584	5133.798	5051.069	4807.523	4661.396
41.0	4989.216	5047.977	4954.424	4696.961	4536.143
41.5	4902.622	4960.609	4856.232	4584.852	4407.798
42.0	4814.482	4872.469	4755.721	4475.063	4301.102
42.5	4726.341	4783.555	4656.757	4373.006	4194.406
43.0	4637.428	4693.868	4557.792	4262.444	4082.297
43.5	4548.514	4602.635	4458.827	4144.923	3968.642
44.0	4459.600	4511.402	4359.089	4039.000	3856.534
44.5	4371.460	4418.623	4259.351	3932.303	3748.291
45.0	4284.092	4325.070	4162.706	3827.927	3640.048
45.5	4195.179	4233.064	4064.514	3725.096	3534.125
46.0	4106.265	4141.057	3967.869	3624.585	3432.067
46.5	4019.671	4048.278	3873.543	3527.166	3333.103
47.0	3932.303	3957.045	3778.444	3431.294	3236.457
47.5	3844.936	3866.585	3685.665	3336.969	3143.678
48.0	3759.115	3776.125	3593.658	3245.735	3053.991
48.5	3673.294	3687.984	3502.425	3156.822	2966.624
49.0	3587.473	3600.617	3413.512	3068.681	2883.122
49.5	3500.879	3513.250	3326.144	2984.406	2802.713
50.0	3415.831	3427.428	3239.550	2901.678	2725.397
50.5	3332.330	3342.381	3153.729	2820.496	2649.627
51.0	3249.601	3258.879	3071.001	2743.180	2576.950
51.5	3166.100	3176.924	2988.272	2662.771	2508.139
52.0	3085.691	3095.742	2908.637	2590.094	2440.100
52.5	3004.509	3016.106	2832.867	2521.282	2375.155
53.0	2924.873	2937.244	2760.189	2453.244	2312.528
53.5	2846.784	2859.154	2680.554	2386.752	2251.449
54.0	2771.014	2782.611	2603.237	2321.806	2192.688
54.5	2696.790	2707.614	2530.560	2259.180	2135.474

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55.0	2624.113	2633.391	2460.976	2198.100	2079.033
55.5	2551.436	2559.940	2392.164	2138.567	2024.912
56.0	2482.624	2488.809	2324.899	2080.580	1972.337
56.5	2414.586	2418.452	2259.180	2024.912	1921.308
57.0	2347.321	2349.640	2195.008	1970.018	1871.053
57.5	2283.148	2282.375	2132.382	1916.669	1822.344
58.0	2221.295	2217.429	2071.302	1864.867	1775.181
58.5	2160.215	2153.257	2010.995	1814.612	1729.564
59.0	2100.682	2091.404	1952.235	1765.130	1685.494
59.5	2041.922	2030.324	1895.021	1717.193	1642.197
60.0	1986.254	1970.791	1839.353	1671.577	1601.219
60.5	1931.359	1914.350	1785.232	1625.960	1561.788
61.0	1878.011	1858.682	1731.884	1582.663	1522.357
61.5	1825.436	1804.561	1680.082	1540.139	1485.245
62.0	1775.181	1752.759	1629.826	1499.935	1449.679
62.5	1726.471	1702.503	1581.117	1460.504	1415.660
63.0	1678.535	1655.340	1533.181	1421.845	1383.187
63.5	1629.826	1610.497	1487.564	1384.734	1351.488
64.0	1574.158	1559.468	1443.494	1349.168	1321.334
64.5	1538.593	1516.171	1400.197	1315.149	1291.954
65.0	1502.254	1474.421	1358.446	1281.903	1264.120
65.5	1461.277	1433.443	1318.242	1250.203	1237.060
66.0	1423.392	1388.600	1279.584	1218.504	1210.772
66.5	1385.507	1349.168	1241.699	1188.350	1185.258
67.0	1349.941	1311.283	1204.587	1158.970	1160.517
67.5	1315.149	1274.171	1169.795	1130.363	1135.775
68.0	1281.903	1238.606	1135.775	1102.529	1111.807
68.5	1249.430	1203.814	1102.529	1075.469	1087.839
69.0	1218.504	1169.795	1070.057	1048.408	1064.644
69.5	1189.124	1136.549	1039.130	1022.121	1041.450
70.0	1159.743	1104.076	1008.204	996.606	1019.028
70.5	1131.136	1072.376	978.823	970.319	995.833
71.0	1103.303	1041.450	948.670	944.804	973.411
71.5	1075.469	1010.523	920.063	919.290	950.216
72.0	1049.181	979.597	891.456	893.776	927.022
72.5	1022.121	949.443	860.530	867.488	903.054
73.0	995.833	919.290	832.696	841.974	879.086
73.5	970.319	889.137	806.408	814.913	855.118
74.0	944.804	858.983	778.574	788.626	830.376
74.5	913.878	828.830	749.967	761.565	804.862
75.0	886.044	798.677	723.680	734.504	779.348
75.5	857.437	769.296	697.392	706.670	752.287
76.0	828.057	739.143	665.693	679.610	725.999
76.5	798.677	708.990	637.086	651.776	698.166
77.0	768.523	679.610	608.479	623.942	670.332
77.5	738.370	649.456	579.872	596.108	641.725
78.0	706.670	620.076	552.038	567.501	612.345
78.5	674.198	589.923	523.431	539.667	582.964
79.0	642.498	560.543	495.597	511.833	552.811
79.5	610.798	530.389	466.217	483.226	522.658
80.0	578.325	501.009	438.383	455.393	492.504
80.5	545.853	471.629	410.549	427.559	461.578
81.0	513.380	442.249	382.715	399.725	431.425
81.5	481.680	413.642	354.881	372.664	400.498
82.0	449.980	385.808	327.821	345.604	370.345
82.5	418.281	357.201	300.760	319.316	340.965

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CANDELA TABULATION - (Cont.)

83.0	387.354	327.048	275.246	293.029	311.584
83.5	356.428	302.306	250.505	267.514	283.751
84.0	326.274	278.338	225.763	242.000	255.144
84.5	296.121	251.278	202.569	218.032	228.083
85.0	266.741	227.310	180.920	194.064	201.022
85.5	238.134	204.115	159.271	171.642	176.281
86.0	208.754	180.147	139.169	149.993	150.767
86.5	180.920	156.952	120.613	126.799	128.345
87.0	153.086	133.757	102.057	105.150	105.923
87.5	126.025	110.562	84.275	85.048	85.048
88.0	98.965	89.687	68.038	66.492	66.492
88.5	72.677	71.131	53.348	51.029	48.709
89.0	51.029	54.895	40.978	37.885	35.565
89.5	34.792	40.978	29.380	27.061	27.061
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-L180-850-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
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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-L180-850-MD-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2915.03	N.A.	16.50
0-30	6171.21	N.A.	35.00
0-40	9867.37	N.A.	56.00
0-60	15183.1	N.A.	86.20
0-80	17373.78	N.A.	98.60
0-90	17614.92	N.A.	100.00
10-90	16862.03	N.A.	95.70
20-40	6952.34	N.A.	39.50
20-50	10093.84	N.A.	57.30
40-70	6694.65	N.A.	38.00
60-80	2190.68	N.A.	12.40
70-80	811.76	N.A.	4.60
80-90	241.15	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	17614.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	752.90
10-20	2162.13
20-30	3256.18
30-40	3696.16
40-50	3141.5
50-60	2174.23
60-70	1378.91
70-80	811.76
80-90	241.15
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-L180-850-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-L180-850-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	22.5	24.0	22.8	24.3	24.6	21.2	22.7	21.6	23.0	23.3
	3H	23.9	25.2	24.3	25.6	25.9	22.8	24.1	23.1	24.4	24.8
	4H	24.5	25.8	24.9	26.1	26.5	23.5	24.7	23.9	25.1	25.5
	6H	25.1	26.3	25.5	26.6	27.0	24.1	25.2	24.5	25.6	26.0
	8H	25.3	26.4	25.7	26.8	27.2	24.2	25.3	24.7	25.7	26.1
	12H	25.4	26.5	25.9	26.9	27.3	24.4	25.4	24.8	25.8	26.2

UGR Viewed Endwise

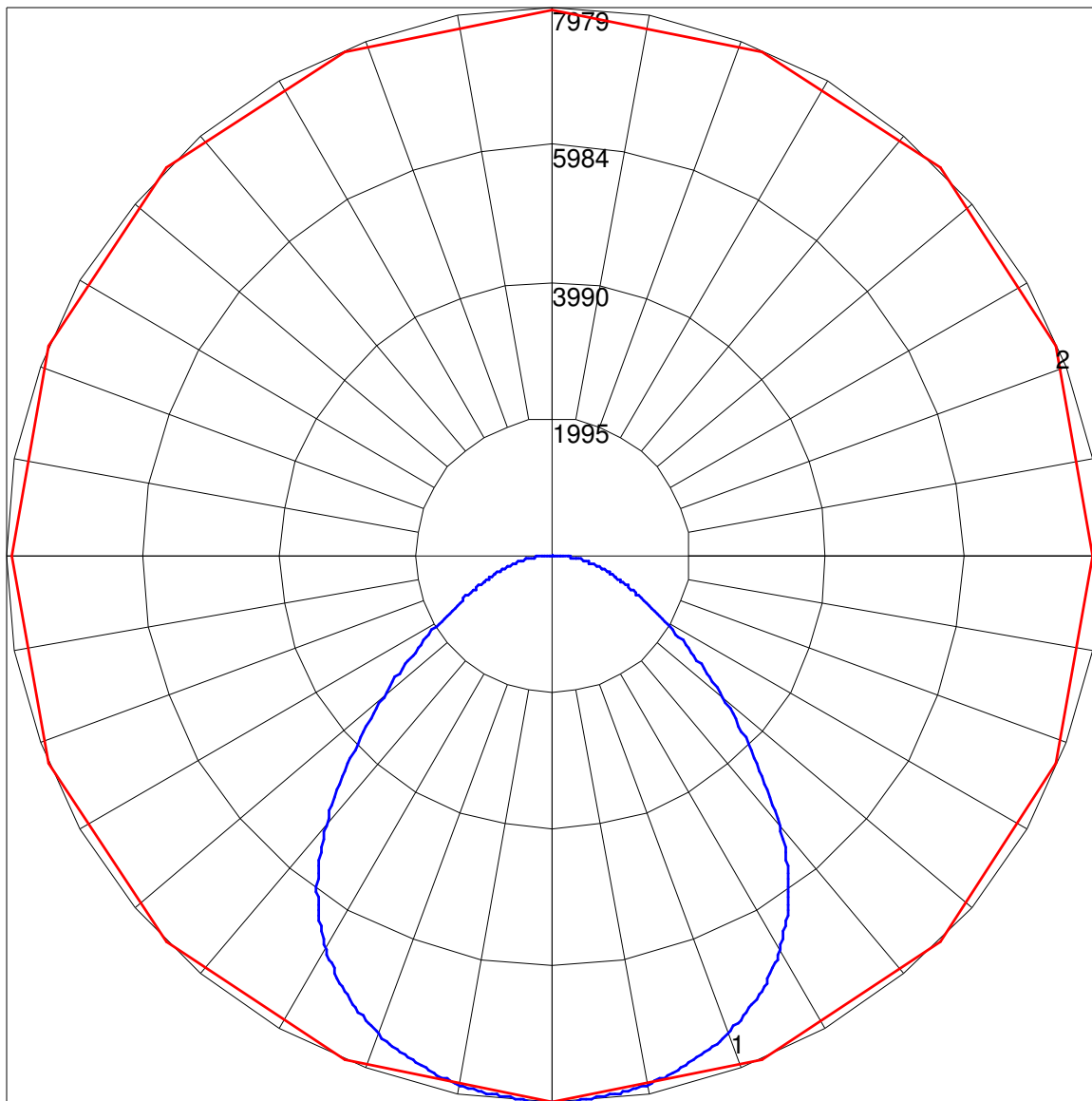
4H	2H	22.8	24.1	23.2	24.4	24.8	21.8	23.0	22.2	23.4	23.8
	3H	24.5	25.5	24.9	25.9	26.3	23.6	24.6	24.0	25.0	25.4
	4H	25.3	26.2	25.7	26.6	27.1	24.4	25.3	24.8	25.8	26.2
	6H	26.0	26.8	26.4	27.2	27.7	25.1	25.9	25.6	26.4	26.8
	8H	26.2	27.0	26.7	27.4	27.9	25.3	26.1	25.8	26.6	27.0
	12H	26.4	27.1	26.9	27.6	28.1	25.5	26.2	26.0	26.7	27.1

8H	4H	25.5	26.3	25.9	26.7	27.2	24.7	25.5	25.2	25.9	26.4
	6H	26.3	26.9	26.8	27.4	27.9	25.5	26.2	26.0	26.6	27.1
	8H	26.6	27.2	27.1	27.7	28.2	25.8	26.4	26.3	26.9	27.4
	12H	26.9	27.4	27.4	27.9	28.5	26.0	26.6	26.6	27.1	27.6

12H	4H	25.5	26.2	26.0	26.7	27.1	24.7	25.4	25.2	25.9	26.4
	6H	26.3	26.9	26.9	27.4	27.9	25.6	26.2	26.1	26.6	27.2
	8H	26.7	27.2	27.2	27.7	28.3	25.9	26.4	26.4	26.9	27.5

Maximum UGR = 28.5

POLAR GRAPH



Maximum Candela = 7979.035 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.)