



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-2-L180-850-HA-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-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	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	7963.589	7963.589	7963.589	7963.589	7963.589
0.5	7894.004	7955.857	7979.052	7963.589	7971.321
1.0	7894.004	7955.857	7979.052	7955.857	7971.321
1.5	7894.004	7955.857	7979.052	7955.857	7971.321
2.0	7886.273	7955.857	7971.321	7948.126	7963.589
2.5	7886.273	7948.126	7971.321	7948.126	7955.857
3.0	7878.541	7940.394	7963.589	7940.394	7948.126
3.5	7878.541	7940.394	7955.857	7932.662	7948.126
4.0	7870.809	7932.662	7948.126	7924.931	7940.394
4.5	7863.078	7924.931	7940.394	7917.199	7932.662
5.0	7863.078	7917.199	7940.394	7917.199	7924.931
5.5	7855.346	7909.467	7932.662	7909.467	7917.199
6.0	7847.614	7901.736	7924.931	7901.736	7909.467
6.5	7839.883	7901.736	7917.199	7894.004	7901.736
7.0	7832.151	7886.273	7909.467	7886.273	7894.004
7.5	7816.688	7878.541	7901.736	7878.541	7886.273
8.0	7808.956	7870.809	7894.004	7870.809	7878.541
8.5	7801.225	7863.078	7886.273	7863.078	7863.078
9.0	7785.761	7847.614	7870.809	7855.346	7855.346
9.5	7778.030	7839.883	7863.078	7839.883	7847.614
10.0	7762.566	7832.151	7855.346	7832.151	7832.151
10.5	7747.103	7816.688	7839.883	7816.688	7824.419
11.0	7739.371	7801.225	7824.419	7801.225	7808.956
11.5	7724.681	7785.761	7808.956	7785.761	7793.493
12.0	7710.764	7770.298	7793.493	7770.298	7778.030
12.5	7696.074	7754.835	7778.030	7754.835	7762.566
13.0	7679.838	7739.371	7762.566	7739.371	7747.103
13.5	7661.282	7718.496	7747.103	7720.042	7731.640
14.0	7642.726	7699.940	7723.135	7702.260	7713.857
14.5	7622.624	7680.611	7703.033	7683.704	7696.847
15.0	7601.748	7662.055	7682.930	7663.601	7679.065
15.5	7579.326	7641.180	7661.282	7643.499	7661.282
16.0	7556.905	7619.531	7638.087	7623.397	7641.180
16.5	7533.710	7597.109	7615.665	7602.521	7620.304
17.0	7509.742	7573.141	7591.697	7580.100	7597.882
17.5	7484.227	7547.627	7568.502	7557.678	7574.687
18.0	7457.940	7522.112	7545.307	7533.710	7550.719
18.5	7433.198	7495.825	7520.566	7508.969	7523.659
19.0	7406.911	7469.537	7495.825	7483.454	7498.144
19.5	7381.396	7441.703	7470.310	7457.167	7471.083
20.0	7354.336	7413.096	7440.930	7431.652	7445.569
20.5	7324.955	7382.170	7409.230	7406.138	7416.962
21.0	7294.802	7348.924	7374.438	7379.077	7389.128
21.5	7263.876	7315.678	7345.058	7349.697	7359.748
22.0	7231.403	7282.431	7314.131	7320.317	7330.368
22.5	7196.610	7246.866	7279.339	7288.617	7298.668
23.0	7161.045	7211.300	7243.000	7255.371	7264.649
23.5	7123.933	7174.962	7206.661	7220.578	7230.629
24.0	7084.501	7136.303	7168.003	7184.240	7195.837
24.5	7045.843	7096.872	7130.118	7146.355	7160.272
25.0	7005.639	7057.441	7092.233	7106.923	7123.160
25.5	6963.115	7014.917	7052.029	7065.946	7085.275
26.0	6921.364	6973.939	7011.824	7023.422	7044.297
26.5	6878.840	6929.869	6969.300	6980.898	7002.546

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CANDELA TABULATION - (Cont.)

27.0	6833.996	6886.572	6926.003	6936.054	6959.249
27.5	6788.380	6841.728	6881.159	6890.437	6914.405
28.0	6740.444	6795.338	6834.770	6842.501	6867.242
28.5	6692.507	6747.402	6786.060	6793.792	6817.760
29.0	6638.386	6697.920	6736.578	6742.763	6765.958
29.5	6586.584	6646.891	6685.549	6690.188	6711.836
30.0	6533.236	6594.316	6632.201	6635.293	6655.395
30.5	6477.568	6540.967	6576.533	6577.306	6595.089
31.0	6420.354	6486.073	6520.092	6513.906	6531.689
31.5	6362.366	6430.405	6460.558	6447.414	6464.424
32.0	6304.379	6374.737	6401.798	6386.334	6404.117
32.5	6243.299	6314.430	6339.945	6320.615	6337.625
33.0	6183.765	6254.123	6276.545	6248.711	6244.072
33.5	6121.139	6190.724	6210.053	6176.034	6158.251
34.0	6057.740	6125.005	6142.788	6098.717	6070.884
34.5	5995.113	6058.513	6073.203	6016.762	5980.423
35.0	5927.848	5991.248	6001.299	5932.487	5885.324
35.5	5860.583	5922.436	5926.302	5844.346	5784.813
36.0	5790.225	5850.532	5848.985	5752.340	5681.982
36.5	5718.321	5776.308	5767.803	5655.694	5575.285
37.0	5644.870	5700.538	5685.075	5557.503	5467.042
37.5	5569.873	5623.222	5600.027	5454.672	5356.480
38.0	5491.784	5545.132	5514.205	5351.841	5242.825
38.5	5412.148	5464.723	5425.292	5245.918	5129.170
39.0	5330.966	5383.541	5334.831	5137.675	5012.422
39.5	5247.464	5301.585	5242.052	5028.658	4896.447
40.0	5163.189	5218.084	5147.726	4918.869	4779.700
40.5	5076.595	5133.809	5051.080	4807.534	4661.406
41.0	4989.227	5047.988	4954.435	4696.971	4536.153
41.5	4902.633	4960.620	4856.243	4584.862	4407.808
42.0	4814.492	4872.479	4755.732	4475.073	4301.111
42.5	4726.351	4783.566	4656.767	4373.015	4194.415
43.0	4637.438	4693.878	4557.802	4262.453	4082.306
43.5	4548.524	4602.645	4458.837	4144.932	3968.651
44.0	4459.610	4511.412	4359.098	4039.009	3856.542
44.5	4371.469	4418.632	4259.360	3932.312	3748.299
45.0	4284.102	4325.079	4162.715	3827.935	3640.056
45.5	4195.188	4233.073	4064.523	3725.104	3534.133
46.0	4106.274	4141.066	3967.878	3624.593	3432.075
46.5	4019.680	4048.287	3873.552	3527.174	3333.110
47.0	3932.312	3957.053	3778.452	3431.302	3236.464
47.5	3844.944	3866.593	3685.673	3336.976	3143.685
48.0	3759.123	3776.133	3593.666	3245.742	3053.998
48.5	3673.302	3687.992	3502.433	3156.829	2966.630
49.0	3587.481	3600.625	3413.519	3068.688	2883.128
49.5	3500.886	3513.257	3326.151	2984.413	2802.719
50.0	3415.838	3427.436	3239.557	2901.684	2725.403
50.5	3332.337	3342.388	3153.736	2820.502	2649.633
51.0	3249.608	3258.886	3071.007	2743.186	2576.956
51.5	3166.106	3176.931	2988.279	2662.777	2508.144
52.0	3085.697	3095.749	2908.643	2590.099	2440.106
52.5	3004.515	3016.113	2832.873	2521.288	2375.160
53.0	2924.879	2937.250	2760.195	2453.249	2312.533
53.5	2846.790	2859.160	2680.559	2386.757	2251.453
54.0	2771.020	2782.617	2603.243	2321.811	2192.693
54.5	2696.796	2707.620	2530.566	2259.185	2135.479

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55.0	2624.119	2633.396	2460.981	2198.105	2079.038
55.5	2551.441	2559.946	2392.169	2138.572	2024.916
56.0	2482.630	2488.815	2324.904	2080.584	1972.341
56.5	2414.591	2418.457	2259.185	2024.916	1921.312
57.0	2347.326	2349.645	2195.013	1970.022	1871.057
57.5	2283.153	2282.380	2132.386	1916.673	1822.347
58.0	2221.300	2217.434	2071.306	1864.872	1775.184
58.5	2160.220	2153.262	2010.999	1814.616	1729.568
59.0	2100.687	2091.409	1952.239	1765.133	1685.497
59.5	2041.926	2030.329	1895.025	1717.197	1642.200
60.0	1986.258	1970.795	1839.357	1671.581	1601.223
60.5	1931.364	1914.354	1785.236	1625.964	1561.791
61.0	1878.015	1858.686	1731.887	1582.667	1522.360
61.5	1825.440	1804.565	1680.085	1540.143	1485.248
62.0	1775.184	1752.763	1629.830	1499.938	1449.682
62.5	1726.475	1702.507	1581.120	1460.507	1415.663
63.0	1678.539	1655.344	1533.184	1421.849	1383.190
63.5	1629.830	1610.501	1487.567	1384.737	1351.491
64.0	1574.162	1559.472	1443.497	1349.171	1321.337
64.5	1538.596	1516.175	1400.200	1315.152	1291.957
65.0	1502.258	1474.424	1358.449	1281.906	1264.123
65.5	1461.280	1433.446	1318.245	1250.206	1237.062
66.0	1423.395	1388.602	1279.586	1218.506	1210.775
66.5	1385.510	1349.171	1241.701	1188.353	1185.260
67.0	1349.944	1311.286	1204.589	1158.973	1160.519
67.5	1315.152	1274.174	1169.797	1130.366	1135.778
68.0	1281.906	1238.609	1135.778	1102.532	1111.810
68.5	1249.433	1203.816	1102.532	1075.471	1087.842
69.0	1218.506	1169.797	1070.059	1048.410	1064.647
69.5	1189.126	1136.551	1039.132	1022.123	1041.452
70.0	1159.746	1104.078	1008.206	996.608	1019.030
70.5	1131.139	1072.378	978.826	970.321	995.835
71.0	1103.305	1041.452	948.672	944.806	973.413
71.5	1075.471	1010.525	920.065	919.292	950.219
72.0	1049.184	979.599	891.458	893.778	927.024
72.5	1022.123	949.445	860.532	867.490	903.056
73.0	995.835	919.292	832.698	841.976	879.087
73.5	970.321	889.139	806.410	814.915	855.119
74.0	944.806	858.985	778.576	788.627	830.378
74.5	913.880	828.832	749.969	761.567	804.864
75.0	886.046	798.678	723.681	734.506	779.349
75.5	857.439	769.298	697.394	706.672	752.289
76.0	828.059	739.145	665.694	679.611	726.001
76.5	798.678	708.991	637.087	651.777	698.167
77.0	768.525	679.611	608.480	623.943	670.333
77.5	738.372	649.458	579.873	596.109	641.726
78.0	706.672	620.078	552.039	567.502	612.346
78.5	674.199	589.924	523.432	539.668	582.966
79.0	642.499	560.544	495.598	511.835	552.812
79.5	610.800	530.390	466.218	483.227	522.659
80.0	578.327	501.010	438.384	455.394	492.505
80.5	545.854	471.630	410.550	427.560	461.579
81.0	513.381	442.250	382.716	399.726	431.425
81.5	481.681	413.643	354.882	372.665	400.499
82.0	449.981	385.809	327.822	345.604	370.346
82.5	418.282	357.202	300.761	319.317	340.965

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CANDELA TABULATION - (Cont.)

83.0	387.355	327.048	275.246	293.029	311.585
83.5	356.429	302.307	250.505	267.515	283.751
84.0	326.275	278.339	225.764	242.000	255.144
84.5	296.122	251.278	202.569	218.032	228.083
85.0	266.742	227.310	180.920	194.064	201.023
85.5	238.135	204.115	159.272	171.642	176.281
86.0	208.754	180.147	139.170	149.994	150.767
86.5	180.920	156.952	120.614	126.799	128.345
87.0	153.086	133.757	102.058	105.150	105.923
87.5	126.026	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	35.566
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-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-L180-850-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-L180-850-HA-MD-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2915.04	N.A.	16.50
0-30	6171.22	N.A.	35.00
0-40	9867.39	N.A.	56.00
0-60	15183.13	N.A.	86.20
0-80	17373.81	N.A.	98.60
0-90	17614.96	N.A.	100.00
10-90	16862.06	N.A.	95.70
20-40	6952.35	N.A.	39.50
20-50	10093.86	N.A.	57.30
40-70	6694.66	N.A.	38.00
60-80	2190.68	N.A.	12.40
70-80	811.77	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	17614.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	752.90
10-20	2162.14
20-30	3256.18
30-40	3696.17
40-50	3141.51
50-60	2174.24
60-70	1378.92
70-80	811.77
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-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-L180-850-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	22.5	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

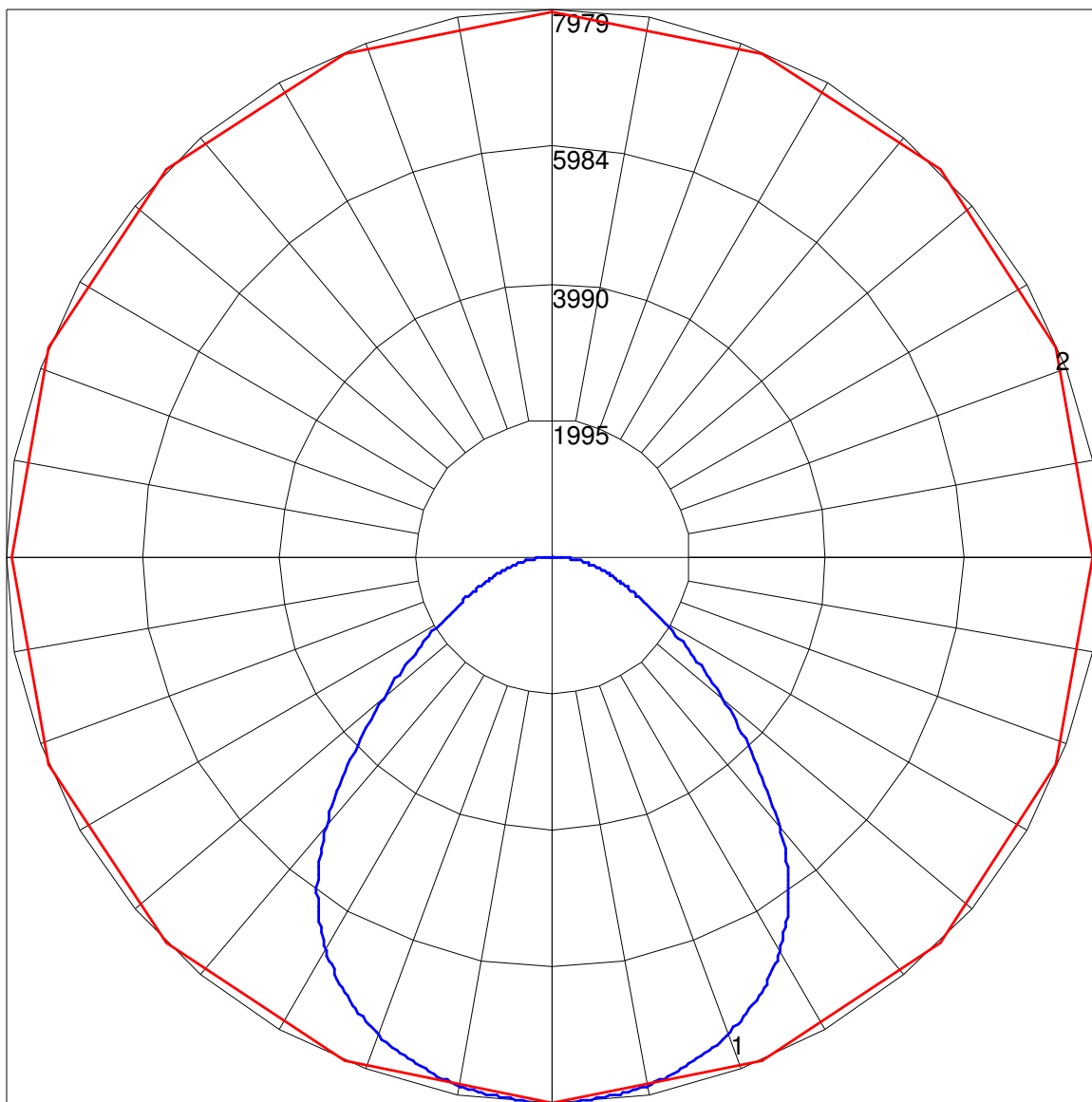
4H	2H	22.8	24.1	23.2	24.4	24.8	21.8	23.0	22.2	23.4	23.8
	3H	24.5	25.5	24.9	25.9	26.3	23.6	24.6	24.0	25.0	25.4
	4H	25.3	26.2	25.7	26.6	27.1	24.4	25.3	24.8	25.8	26.2
	6H	26.0	26.8	26.4	27.2	27.7	25.1	25.9	25.6	26.4	26.8
	8H	26.2	27.0	26.7	27.4	27.9	25.3	26.1	25.8	26.6	27.0
	12H	26.4	27.1	26.9	27.6	28.1	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 = 7979.052 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.)