



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-2-L180-850-HA-HE-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14617179.01
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 2023-03-13
[TESTDATE] 1/6/2023
[MANUFAC] H E Williams Inc
[LUMCAT] GS-2-L180-850-HA-HE-DIM-UNV
[LUMINAIRE] White aluminum housing, prismatic lense enclosure
[LAMP] 448 White LEDs
[BALLAST] ULT D21CC80UNVPW-C
[OTHER] 24.9 C, 120.004 V, 1.44538 A, 173.17 W, 0.998374 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	19284
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	166
Total Luminaire Watts	116
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
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	38475	39665	40383
55	36826	38308	27555
65	33403	23363	7574
75	27345	7517	7614
85	11989	10305	9596

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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	7310.053	7310.053	7310.053	7310.053	7310.053
0.5	7219.749	7314.645	7330.716	7319.237	7333.777
1.0	7222.045	7315.410	7331.481	7319.237	7333.012
1.5	7225.106	7314.645	7332.247	7316.941	7330.716
2.0	7224.341	7316.175	7330.716	7317.706	7331.481
2.5	7222.810	7314.645	7331.481	7316.175	7329.185
3.0	7222.045	7311.584	7329.951	7316.941	7330.716
3.5	7219.749	7306.992	7329.185	7316.941	7330.716
4.0	7214.392	7304.696	7326.890	7320.002	7332.247
4.5	7207.504	7300.104	7323.828	7321.532	7333.777
5.0	7198.321	7294.747	7321.532	7320.002	7331.481
5.5	7191.433	7290.156	7318.471	7317.706	7328.420
6.0	7186.076	7285.564	7314.645	7312.349	7322.298
6.5	7178.423	7278.676	7310.818	7306.992	7313.880
7.0	7168.474	7271.023	7303.166	7299.339	7303.931
7.5	7160.056	7264.136	7296.278	7289.390	7293.217
8.0	7152.403	7255.718	7286.329	7278.676	7283.268
8.5	7148.577	7246.534	7277.146	7267.962	7275.615
9.0	7142.455	7236.585	7267.197	7257.248	7266.432
9.5	7134.036	7228.932	7258.779	7249.595	7259.544
10.0	7124.853	7222.045	7249.595	7240.412	7250.360
10.5	7116.435	7214.392	7238.881	7228.932	7239.646
11.0	7107.251	7206.739	7226.636	7215.922	7228.167
11.5	7099.598	7198.321	7214.392	7203.678	7210.565
12.0	7085.058	7187.607	7204.443	7187.607	7187.607
12.5	7068.987	7176.893	7190.668	7166.179	7169.240
13.0	7052.916	7164.648	7176.127	7144.750	7149.342
13.5	7036.079	7147.812	7161.587	7126.383	7127.149
14.0	7017.712	7131.740	7146.281	7105.721	7106.486
14.5	6993.223	7115.669	7127.914	7085.058	7088.884
15.0	6975.621	7099.598	7110.312	7064.395	7075.109
15.5	6965.672	7081.997	7089.650	7044.497	7061.334
16.0	6951.132	7062.099	7068.987	7026.896	7044.497
16.5	6935.826	7043.732	7044.497	7009.294	7029.192
17.0	6925.877	7024.600	7023.069	6991.692	7011.590
17.5	6909.806	7006.233	7000.111	6971.795	6994.754
18.0	6891.439	6984.805	6975.621	6953.428	6974.856
18.5	6871.542	6964.142	6954.193	6931.234	6948.836
19.0	6847.818	6944.244	6927.408	6908.276	6924.347
19.5	6821.798	6923.582	6902.153	6886.082	6904.449
20.0	6797.309	6902.919	6877.664	6862.358	6883.021
20.5	6773.585	6880.725	6855.471	6839.400	6861.593
21.0	6750.626	6857.001	6832.512	6817.971	6838.634
21.5	6723.841	6833.277	6808.788	6796.543	6813.380
22.0	6697.821	6809.553	6785.064	6773.585	6788.125
22.5	6675.627	6784.299	6759.809	6749.861	6765.166
23.0	6653.434	6758.279	6731.494	6722.310	6737.616
23.5	6631.241	6729.198	6703.943	6697.821	6713.127
24.0	6603.690	6703.178	6674.097	6673.332	6686.342
24.5	6579.966	6677.158	6643.485	6645.781	6661.087
25.0	6553.946	6645.016	6610.578	6620.527	6632.006
25.5	6524.100	6618.231	6581.497	6592.211	6604.455
26.0	6489.662	6591.446	6553.181	6563.895	6573.844
26.5	6452.163	6556.242	6525.631	6534.049	6543.998

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-2-L180-850-HA-HE-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	6417.725	6521.804	6495.784	6504.968	6514.151
27.5	6384.052	6485.835	6468.234	6475.887	6485.070
28.0	6351.910	6449.867	6438.387	6448.336	6455.989
28.5	6324.359	6413.898	6407.011	6418.490	6424.612
29.0	6293.748	6378.695	6374.868	6383.287	6394.001
29.5	6263.136	6343.491	6342.726	6351.144	6366.450
30.0	6232.524	6304.462	6308.288	6317.472	6334.308
30.5	6201.913	6268.493	6276.911	6283.034	6305.227
31.0	6169.005	6228.698	6245.534	6250.891	6273.085
31.5	6132.271	6189.668	6212.627	6217.984	6240.943
32.0	6094.007	6154.465	6178.189	6184.311	6207.270
32.5	6054.212	6116.966	6145.281	6154.465	6172.066
33.0	6012.886	6080.232	6115.435	6121.557	6139.924
33.5	5973.091	6041.202	6080.997	6087.884	6110.843
34.0	5932.531	5999.876	6043.498	6052.681	6077.170
34.5	5894.266	5959.316	6005.233	6017.478	6041.967
35.0	5859.063	5917.225	5963.142	5983.040	6004.468
35.5	5826.155	5875.134	5914.929	5947.071	5970.795
36.0	5786.360	5829.982	5875.899	5911.102	5935.592
36.5	5745.034	5784.830	5838.400	5873.603	5898.092
37.0	5697.586	5739.677	5797.074	5836.869	5861.359
37.5	5646.312	5695.291	5754.983	5800.135	5822.329
38.0	5597.333	5651.669	5717.484	5761.871	5781.768
38.5	5547.590	5607.282	5681.515	5722.076	5737.382
39.0	5503.968	5562.895	5639.424	5679.219	5696.056
39.5	5462.642	5515.447	5592.742	5634.067	5655.495
40.0	5419.786	5465.703	5546.059	5591.211	5613.404
40.5	5375.399	5415.960	5501.672	5547.590	5573.609
41.0	5334.074	5366.216	5456.520	5500.142	5533.049
41.5	5283.564	5315.707	5408.307	5456.520	5486.366
42.0	5227.698	5265.963	5359.328	5409.837	5438.918
42.5	5167.240	5215.454	5309.584	5363.155	5392.236
43.0	5108.313	5164.179	5262.136	5316.472	5347.083
43.5	5053.212	5109.843	5213.158	5269.024	5302.697
44.0	5004.233	5058.569	5168.771	5223.106	5261.371
44.5	4963.673	5008.060	5121.323	5181.781	5216.984
45.0	4921.582	4954.490	5073.875	5138.924	5165.710
45.5	4875.665	4902.450	5022.600	5087.650	5119.027
46.0	4821.329	4848.879	4965.204	5031.019	5068.518
46.5	4765.463	4793.013	4904.746	4984.336	5020.304
47.0	4706.535	4739.443	4853.471	4936.123	4973.622
47.5	4653.730	4688.168	4802.197	4885.613	4923.878
48.0	4605.517	4638.425	4747.861	4837.400	4872.603
48.5	4558.069	4593.273	4694.291	4789.952	4811.380
49.0	4507.560	4531.284	4643.782	4740.974	4733.321
49.5	4453.224	4465.469	4594.038	4691.995	4643.016
50.0	4385.114	4410.368	4541.998	4639.190	4534.345
50.5	4323.125	4362.155	4486.132	4582.558	4401.950
51.0	4264.963	4304.758	4430.266	4513.682	4249.657
51.5	4214.454	4248.892	4372.104	4429.500	4103.487
52.0	4166.241	4188.434	4317.003	4331.543	3985.632
52.5	4111.140	4130.272	4261.137	4204.505	3873.900
53.0	4047.621	4067.518	4203.740	4059.100	3706.301
53.5	3982.571	4009.356	4148.639	3907.572	3480.540
54.0	3922.113	3956.551	4090.477	3779.769	3222.638
54.5	3871.604	3898.389	4031.549	3669.567	3009.122

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PHOTOMETRIC FILENAME : GS-2-L180-850-HA-HE-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	3821.095	3830.278	3974.918	3531.815	2859.125
55.5	3756.810	3767.524	3916.756	3335.901	2745.096
56.0	3687.169	3717.015	3860.124	3091.773	2634.129
56.5	3629.007	3663.445	3802.728	2864.482	2495.612
57.0	3580.028	3603.752	3742.270	2703.771	2355.564
57.5	3524.927	3537.172	3675.689	2588.977	2239.239
58.0	3461.408	3472.122	3604.517	2495.612	2167.302
58.5	3390.236	3410.134	3517.274	2381.583	2122.150
59.0	3332.839	3349.676	3417.021	2225.464	2084.651
59.5	3276.973	3284.626	3302.993	2096.130	2031.846
60.0	3205.036	3216.515	3168.302	2019.601	1961.439
60.5	3136.160	3158.353	3047.386	1974.449	1871.900
61.0	3074.171	3094.834	2933.358	1936.185	1760.933
61.5	3019.836	3029.019	2800.963	1880.318	1643.844
62.0	2954.786	2959.378	2657.088	1808.381	1526.754
62.5	2874.430	2888.971	2471.122	1714.250	1371.400
63.0	2804.024	2828.513	2261.433	1597.161	1137.987
63.5	2748.158	2768.820	2091.538	1483.898	949.725
64.0	2680.047	2699.179	1975.980	1370.635	837.993
64.5	2614.997	2637.956	1887.971	1202.271	735.521
65.0	2553.774	2575.202	1786.188	981.867	579.019
65.5	2472.653	2504.030	1658.384	829.575	501.724
66.0	2403.777	2438.215	1551.243	736.592	484.429
66.5	2344.084	2378.522	1486.959	599.605	476.470
67.0	2279.035	2311.942	1436.450	502.490	469.506
67.5	2210.924	2246.127	1383.645	467.363	462.618
68.0	2140.517	2186.434	1315.534	457.720	456.190
68.5	2079.294	2116.028	1219.107	450.067	449.914
69.0	2019.601	2052.509	1108.906	442.950	443.639
69.5	1953.021	1987.459	1014.775	436.292	437.210
70.0	1887.971	1927.001	885.441	429.940	430.858
70.5	1825.217	1858.125	719.526	423.435	424.736
71.0	1770.117	1786.188	612.615	417.389	418.614
71.5	1706.597	1711.189	531.953	411.344	411.726
72.0	1643.078	1631.599	439.659	404.532	405.068
72.5	1580.325	1529.815	394.048	398.027	397.951
73.0	1521.397	1423.440	382.186	391.446	390.222
73.5	1462.470	1332.370	374.303	384.405	382.416
74.0	1403.542	1235.944	366.574	376.829	373.844
74.5	1345.380	1130.334	359.304	368.640	365.350
75.0	1280.331	995.643	351.957	360.299	356.472
75.5	1220.638	901.512	344.916	351.727	347.212
76.0	1160.945	832.636	338.105	342.850	337.799
76.5	1097.426	757.331	330.758	333.743	328.080
77.0	1033.907	677.435	323.412	324.407	318.437
77.5	969.623	625.395	315.529	314.993	308.489
78.0	897.686	561.953	307.341	305.274	298.540
78.5	837.993	482.516	298.540	295.096	288.285
79.0	785.188	421.216	289.662	285.147	278.260
79.5	730.393	332.519	280.555	275.198	268.005
80.0	675.063	285.836	271.142	264.944	257.520
80.5	619.656	242.138	261.729	254.383	247.189
81.0	563.407	227.291	251.934	243.898	237.852
81.5	507.923	218.031	241.679	233.567	228.898
82.0	457.950	208.389	230.965	223.082	216.960
82.5	413.333	198.669	220.251	212.674	206.399

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PHOTOMETRIC FILENAME : GS-2-L180-850-HA-HE-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	365.350	189.180	208.848	201.960	196.144
83.5	318.514	179.308	197.521	191.399	185.659
84.0	273.285	169.206	185.812	180.379	174.869
84.5	231.041	158.492	174.333	168.900	163.619
85.0	189.027	147.701	162.471	156.502	151.298
85.5	167.216	136.222	149.767	143.186	138.671
86.0	143.262	124.360	136.375	129.181	124.972
86.5	108.442	111.962	121.375	114.028	111.120
87.0	90.228	99.029	105.457	98.187	96.044
87.5	78.748	85.559	88.468	82.116	79.820
88.0	67.346	70.789	71.478	64.437	61.606
88.5	54.871	54.871	54.183	45.305	41.785
89.0	40.101	39.566	36.887	29.387	27.015
89.5	25.102	26.556	23.724	20.127	19.515
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-HE-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-HE-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-HE-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2692.48	N.A.	14.00
0-30	5742.6	N.A.	29.80
0-40	9462.63	N.A.	49.10
0-60	16617.03	N.A.	86.20
0-80	19110.22	N.A.	99.10
0-90	19283.82	N.A.	100.00
10-90	18589.51	N.A.	96.40
20-40	6770.15	N.A.	35.10
20-50	10662.91	N.A.	55.30
40-70	8954.01	N.A.	46.40
60-80	2493.2	N.A.	12.90
70-80	693.59	N.A.	3.60
80-90	173.59	N.A.	0.90
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	19283.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	694.31
10-20	1998.17
20-30	3050.12
30-40	3720.03
40-50	3892.76
50-60	3261.64
60-70	1799.61
70-80	693.59
80-90	173.59
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-HE-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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	50	62	55	50	61	54	49	59	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	43	53	48	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-2-L180-850-HA-HE-DIM-UNV_.IES

UGR TABLE - CORRECTED

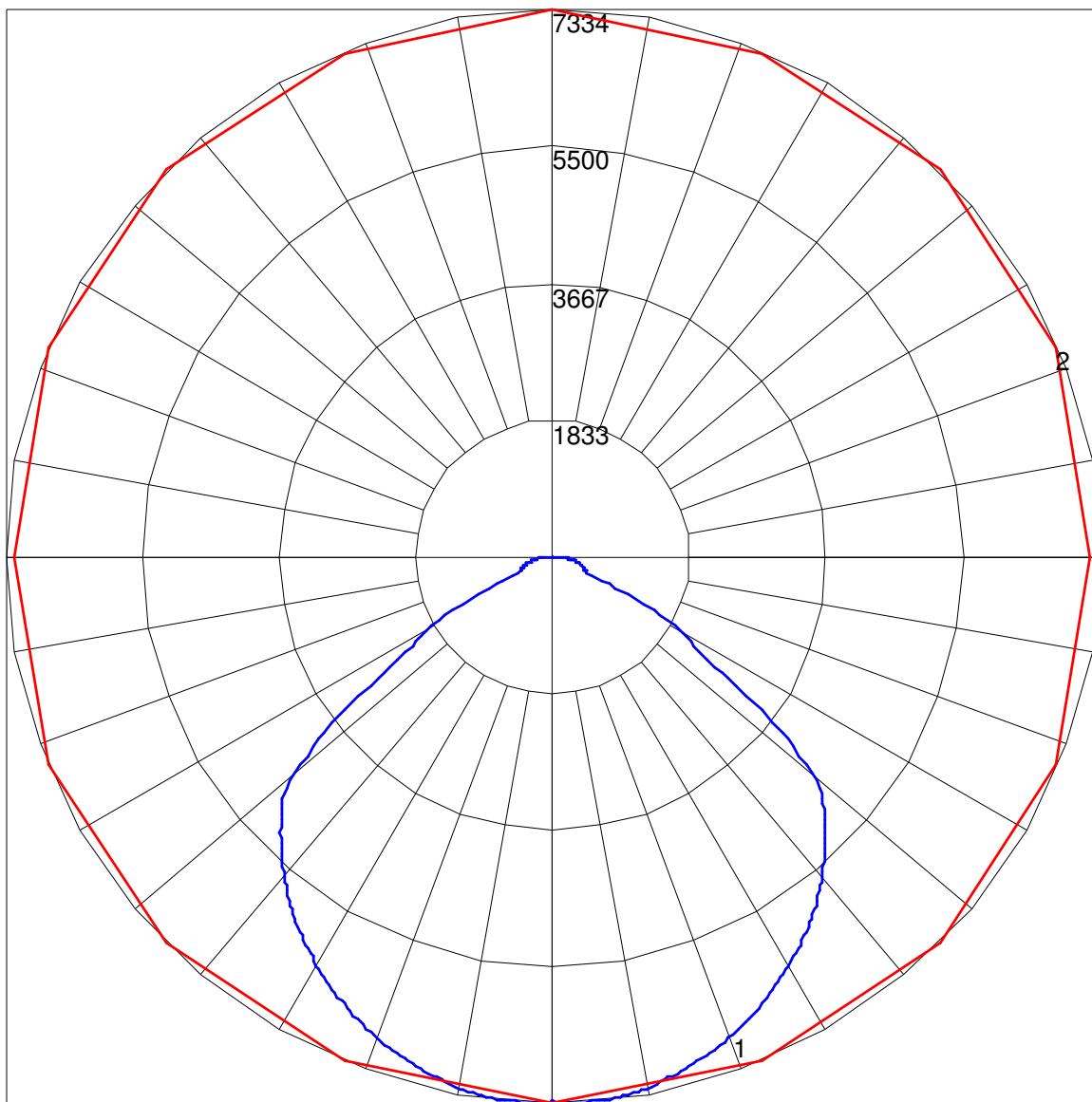
Reflectances

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	25.1	26.7	25.5	27.0	27.3	22.7	24.3	23.1	24.6	24.9
	3H	26.8	28.2	27.2	28.5	28.9	22.8	24.2	23.2	24.6	24.9
	4H	27.3	28.7	27.7	29.0	29.4	22.9	24.2	23.3	24.6	25.0
	6H	27.6	28.8	28.0	29.2	29.6	23.0	24.3	23.5	24.6	25.0
	8H	27.7	28.8	28.1	29.2	29.6	23.1	24.3	23.5	24.7	25.1
	12H	27.7	28.8	28.1	29.2	29.6	23.2	24.3	23.6	24.7	25.1
4H	2H	25.4	26.7	25.8	27.0	27.4	23.3	24.7	23.7	25.0	25.4
	3H	27.2	28.3	27.6	28.7	29.1	23.5	24.6	23.9	25.0	25.4
	4H	27.8	28.8	28.2	29.2	29.6	23.7	24.6	24.1	25.0	25.5
	6H	28.2	29.0	28.6	29.4	29.9	23.9	24.7	24.3	25.1	25.6
	8H	28.2	29.0	28.7	29.5	29.9	23.9	24.7	24.4	25.2	25.6
	12H	28.3	29.0	28.8	29.5	29.9	24.0	24.7	24.5	25.2	25.7
8H	4H	27.8	28.6	28.2	29.0	29.5	23.8	24.6	24.3	25.1	25.5
	6H	28.1	28.8	28.6	29.3	29.7	24.1	24.8	24.6	25.2	25.7
	8H	28.2	28.8	28.7	29.3	29.8	24.2	24.8	24.7	25.3	25.8
	12H	28.3	28.8	28.8	29.3	29.9	24.4	24.9	24.9	25.4	26.0
12H	4H	27.7	28.5	28.2	28.9	29.4	23.9	24.6	24.3	25.0	25.5
	6H	28.1	28.7	28.6	29.2	29.7	24.1	24.7	24.6	25.2	25.7
	8H	28.2	28.7	28.7	29.2	29.8	24.3	24.8	24.8	25.3	25.9

Maximum UGR = 29.9

POLAR GRAPH



Maximum Candela = 7333.777 Located At Horizontal Angle = 90, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)