



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14629546.01
[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-ND-DIM-UNV
[LUMINAIRE] White aluminum housing, prismatic lense enclosure
[LAMP] 448 White LEDs
[BALLAST] ULT D21CC80UNVPW-C
[OTHER] 25.5 C, 276.967 V, 0.622888 A, 168.916 W, 0.979112 PF, 59.9997
[MORE] Hz
[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	17801
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	116
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.22
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	32116	31614	31826
55	29584	29271	28727
65	26417	26175	24010
75	22080	21040	17126
85	16282	12947	10544

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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	7832.771	7832.771	7832.771	7832.771	7832.771
0.5	7763.180	7832.771	7848.235	7832.771	7848.235
1.0	7755.448	7825.038	7848.235	7825.038	7848.235
1.5	7755.448	7825.038	7840.503	7825.038	7840.503
2.0	7747.716	7817.306	7832.771	7817.306	7832.771
2.5	7747.716	7809.574	7832.771	7809.574	7825.038
3.0	7739.984	7801.842	7825.038	7801.842	7817.306
3.5	7727.612	7794.109	7809.574	7786.377	7794.109
4.0	7719.106	7786.377	7801.842	7778.645	7794.109
4.5	7709.828	7778.645	7794.109	7763.180	7778.645
5.0	7699.003	7763.180	7786.377	7755.448	7763.180
5.5	7685.858	7755.448	7770.913	7739.984	7747.716
6.0	7671.167	7739.984	7755.448	7722.973	7739.984
6.5	7655.702	7721.426	7739.984	7705.188	7719.106
7.0	7637.145	7702.869	7719.106	7687.404	7700.549
7.5	7614.721	7681.992	7696.683	7665.754	7681.218
8.0	7594.617	7659.568	7673.486	7643.330	7658.795
8.5	7572.194	7634.825	7648.743	7620.134	7635.598
9.0	7546.677	7608.535	7621.680	7595.390	7610.855
9.5	7519.614	7579.926	7595.390	7569.101	7583.792
10.0	7488.685	7550.543	7565.235	7542.038	7555.956
10.5	7457.756	7518.068	7535.079	7512.655	7525.027
11.0	7424.508	7485.592	7502.603	7481.726	7491.778
11.5	7390.486	7451.571	7470.128	7449.251	7460.076
12.0	7354.917	7416.002	7433.786	7414.456	7423.734
12.5	7320.122	7378.114	7396.672	7379.661	7387.393
13.0	7284.554	7340.226	7357.237	7340.999	7349.505
13.5	7246.666	7300.792	7317.029	7298.472	7308.524
14.0	7206.458	7258.264	7276.048	7253.625	7268.316
14.5	7165.477	7214.964	7233.521	7214.190	7225.016
15.0	7122.177	7172.436	7189.447	7171.663	7181.715
15.5	7077.330	7128.362	7144.600	7125.270	7137.641
16.0	7032.483	7082.742	7096.660	7078.103	7090.474
16.5	6984.543	7037.895	7049.493	7031.709	7040.988
17.0	6935.056	6990.728	7006.193	6982.996	6990.728
17.5	6885.570	6942.788	6955.933	6933.510	6939.696
18.0	6836.857	6893.302	6904.127	6883.250	6888.663
18.5	6785.824	6844.589	6854.641	6832.217	6836.083
19.0	6735.564	6795.102	6803.608	6780.411	6782.731
19.5	6684.531	6744.843	6753.348	6727.059	6730.925
20.0	6634.272	6693.037	6701.542	6674.479	6679.119
20.5	6583.239	6642.004	6649.736	6621.127	6625.766
21.0	6530.659	6590.971	6598.703	6567.774	6573.187
21.5	6481.173	6538.392	6546.124	6514.422	6519.061
22.0	6428.594	6487.359	6493.545	6461.069	6466.482
22.5	6378.334	6436.326	6440.192	6407.717	6413.129
23.0	6327.301	6383.747	6386.066	6352.818	6357.457
23.5	6276.268	6331.941	6330.394	6296.372	6301.785
24.0	6226.009	6281.681	6274.722	6239.927	6246.886
24.5	6178.842	6228.328	6216.730	6183.481	6190.440
25.0	6128.582	6175.749	6159.511	6127.036	6136.315
25.5	6076.776	6122.397	6102.293	6072.137	6081.416
26.0	6026.517	6069.044	6045.074	6017.238	6028.836
26.5	5976.257	6014.918	5987.855	5961.566	5975.484

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CANDELA TABULATION - (Cont.)

27.0	5925.997	5966.205	5930.637	5906.667	5922.904
27.5	5874.965	5919.812	5874.191	5850.995	5870.325
28.0	5823.932	5857.954	5818.519	5796.096	5817.746
28.5	5773.672	5804.601	5762.847	5741.970	5765.940
29.0	5718.000	5756.661	5707.948	5687.844	5714.134
29.5	5666.967	5701.762	5653.822	5635.265	5662.328
30.0	5615.934	5646.863	5600.470	5582.685	5608.202
30.5	5566.448	5595.057	5547.890	5531.653	5555.623
31.0	5516.188	5543.251	5494.538	5480.620	5503.043
31.5	5467.475	5491.445	5441.185	5428.814	5449.691
32.0	5419.535	5439.639	5388.606	5377.781	5397.111
32.5	5370.822	5389.379	5336.027	5327.521	5346.079
33.0	5322.882	5338.346	5283.447	5275.715	5295.046
33.5	5275.715	5288.860	5230.868	5224.682	5245.559
34.0	5227.775	5237.827	5179.062	5172.876	5196.073
34.5	5179.835	5186.794	5121.070	5120.297	5145.813
35.0	5131.122	5136.535	5070.810	5067.717	5095.554
35.5	5083.182	5086.275	5021.324	5015.138	5045.294
36.0	5034.469	5036.015	4968.745	4963.332	4994.261
36.5	4985.756	4984.209	4916.939	4910.753	4944.001
37.0	4937.816	4933.176	4865.133	4858.173	4892.195
37.5	4896.062	4880.597	4811.780	4805.594	4841.163
38.0	4849.668	4828.791	4759.974	4753.015	4790.130
38.5	4787.037	4776.212	4708.168	4701.209	4739.870
39.0	4735.231	4722.859	4658.681	4649.403	4688.837
39.5	4683.425	4670.280	4609.968	4597.597	4637.031
40.0	4630.072	4616.927	4554.296	4545.791	4585.225
40.5	4577.493	4564.348	4500.170	4493.984	4533.419
41.0	4524.913	4512.542	4449.137	4442.178	4481.613
41.5	4472.334	4459.189	4398.105	4389.599	4429.034
42.0	4418.982	4406.610	4346.298	4337.020	4376.454
42.5	4367.176	4354.031	4296.039	4284.440	4325.421
43.0	4314.596	4301.451	4245.779	4232.634	4275.162
43.5	4262.790	4248.872	4194.746	4179.282	4224.129
44.0	4210.984	4197.066	4145.260	4126.703	4172.323
44.5	4159.178	4142.167	4094.227	4074.896	4122.063
45.0	4108.145	4086.495	4043.967	4022.317	4071.030
45.5	4057.112	4037.008	3993.708	3969.738	4017.678
46.0	4005.306	3985.202	3943.448	3917.159	3965.872
46.5	3955.820	3927.984	3892.415	3864.579	3912.519
47.0	3904.787	3880.044	3842.156	3812.000	3859.167
47.5	3852.981	3831.331	3791.123	3760.194	3805.814
48.0	3801.948	3779.524	3740.863	3707.614	3750.915
48.5	3750.915	3726.945	3689.830	3655.808	3696.789
49.0	3699.882	3675.139	3639.571	3603.229	3643.437
49.5	3648.849	3623.333	3589.311	3552.969	3588.538
50.0	3597.043	3570.754	3539.051	3501.937	3534.412
50.5	3545.237	3518.174	3489.565	3448.584	3480.286
51.0	3492.658	3466.368	3439.305	3396.005	3425.387
51.5	3440.852	3414.562	3389.819	3345.745	3371.262
52.0	3388.273	3363.529	3339.559	3293.939	3315.589
52.5	3334.147	3311.723	3290.073	3242.133	3259.917
53.0	3280.794	3259.917	3239.813	3191.100	3204.245
53.5	3228.215	3208.111	3189.554	3140.067	3148.573
54.0	3175.636	3157.078	3139.294	3089.034	3092.901
54.5	3123.056	3106.045	3088.261	3036.455	3037.228

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55.0	3069.704	3055.012	3037.228	2984.649	2980.783
55.5	3017.898	3003.206	2986.969	2931.296	2925.111
56.0	2965.318	2951.400	2935.163	2878.717	2869.438
56.5	2912.739	2899.594	2880.264	2825.365	2813.766
57.0	2860.160	2848.561	2826.138	2772.012	2757.321
57.5	2808.354	2796.755	2778.971	2717.886	2700.875
58.0	2755.774	2744.949	2728.711	2663.761	2645.203
58.5	2703.195	2693.143	2676.905	2608.862	2587.985
59.0	2650.616	2640.564	2625.099	2553.189	2531.539
59.5	2598.036	2588.758	2573.293	2498.290	2475.867
60.0	2546.230	2536.178	2520.714	2442.618	2427.154
60.5	2493.651	2483.599	2469.681	2387.719	2366.069
61.0	2441.072	2431.020	2418.648	2332.820	2301.118
61.5	2388.492	2379.214	2366.069	2277.148	2242.353
62.0	2336.686	2325.861	2313.490	2221.476	2184.361
62.5	2283.334	2273.282	2260.910	2166.577	2125.596
63.0	2230.754	2221.476	2209.104	2110.905	2067.604
63.5	2177.402	2168.896	2158.071	2056.779	2008.839
64.0	2124.049	2117.090	2106.265	2001.880	1950.847
64.5	2071.470	2065.284	2053.686	1947.754	1892.855
65.0	2019.664	2013.478	2001.107	1892.855	1835.636
65.5	1967.858	1961.672	1950.074	1838.729	1779.191
66.0	1916.052	1909.866	1898.268	1784.604	1722.746
66.5	1864.246	1859.606	1846.462	1730.478	1666.300
67.0	1812.440	1808.574	1794.656	1671.713	1610.628
67.5	1761.407	1757.541	1742.849	1619.907	1555.729
68.0	1710.374	1706.508	1690.270	1568.101	1500.830
68.5	1660.114	1656.248	1638.464	1514.748	1446.704
69.0	1609.855	1605.215	1585.885	1460.622	1392.578
69.5	1560.368	1555.729	1534.079	1407.270	1339.999
70.0	1510.882	1505.469	1482.273	1353.917	1287.420
70.5	1462.169	1455.210	1430.466	1301.338	1235.614
71.0	1413.456	1404.950	1379.434	1248.759	1184.581
71.5	1364.742	1356.237	1328.401	1197.726	1133.548
72.0	1316.802	1306.750	1277.368	1146.693	1084.062
72.5	1268.862	1258.037	1227.108	1096.433	1035.348
73.0	1221.696	1209.324	1178.395	1046.947	986.635
73.5	1174.529	1161.384	1128.909	998.234	939.469
74.0	1126.589	1113.444	1080.196	951.067	892.302
74.5	1080.969	1066.277	1032.256	903.900	846.682
75.0	1033.802	1019.884	985.089	857.507	801.834
75.5	988.182	973.490	937.149	811.886	757.761
76.0	943.335	928.643	890.755	767.813	716.006
76.5	898.488	883.796	845.135	724.512	674.252
77.0	854.414	839.722	799.515	682.758	631.725
77.5	811.113	797.195	755.441	641.777	590.744
78.0	768.586	754.668	711.367	601.569	555.176
78.5	726.832	712.914	668.067	562.908	520.381
79.0	685.851	671.933	626.312	525.020	485.585
79.5	645.643	631.725	584.558	487.905	451.563
80.0	606.209	592.290	543.577	452.337	419.088
80.5	567.547	554.402	504.143	420.634	387.386
81.0	530.432	516.514	464.708	390.479	358.003
81.5	494.091	479.400	426.820	354.910	330.167
82.0	457.749	443.831	391.252	323.981	303.104
82.5	422.181	408.263	356.457	295.372	276.815

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CANDELA TABULATION - (Cont.)

83.0	387.386	373.468	323.208	268.309	252.071
83.5	354.137	340.219	290.733	242.793	228.875
84.0	320.888	307.744	259.804	218.823	207.224
84.5	288.413	275.268	231.194	195.626	186.347
85.0	256.711	244.339	204.131	174.749	166.243
85.5	225.009	214.183	178.615	153.872	146.140
86.0	194.853	185.574	155.418	133.768	126.036
86.5	163.924	156.965	132.221	114.437	109.025
87.0	134.541	129.902	110.571	98.973	95.107
87.5	106.705	105.159	91.241	85.055	82.735
88.0	81.189	81.962	75.776	70.363	69.590
88.5	57.992	61.858	60.312	59.538	58.765
89.0	36.342	44.847	48.713	51.806	51.806
89.5	21.650	31.702	39.434	44.847	44.847
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-ND-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-ND-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-ND-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2747.74	N.A.	15.40
0-30	5577.97	N.A.	31.30
0-40	8766.56	N.A.	49.20
0-60	14603.25	N.A.	82.00
0-80	17551.33	N.A.	98.60
0-90	17800.72	N.A.	100.00
10-90	17066.78	N.A.	95.90
20-40	6018.82	N.A.	33.80
20-50	9152.64	N.A.	51.40
40-70	7776.36	N.A.	43.70
60-80	2948.08	N.A.	16.60
70-80	1008.41	N.A.	5.70
80-90	249.40	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	17800.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	733.94
10-20	2013.8
20-30	2830.24
30-40	3188.58
40-50	3133.82
50-60	2702.88
60-70	1939.67
70-80	1008.41
80-90	249.40
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-ND-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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	43	36	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	34	29	39	33	29	39	33	29	27

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

UGR TABLE - CORRECTED

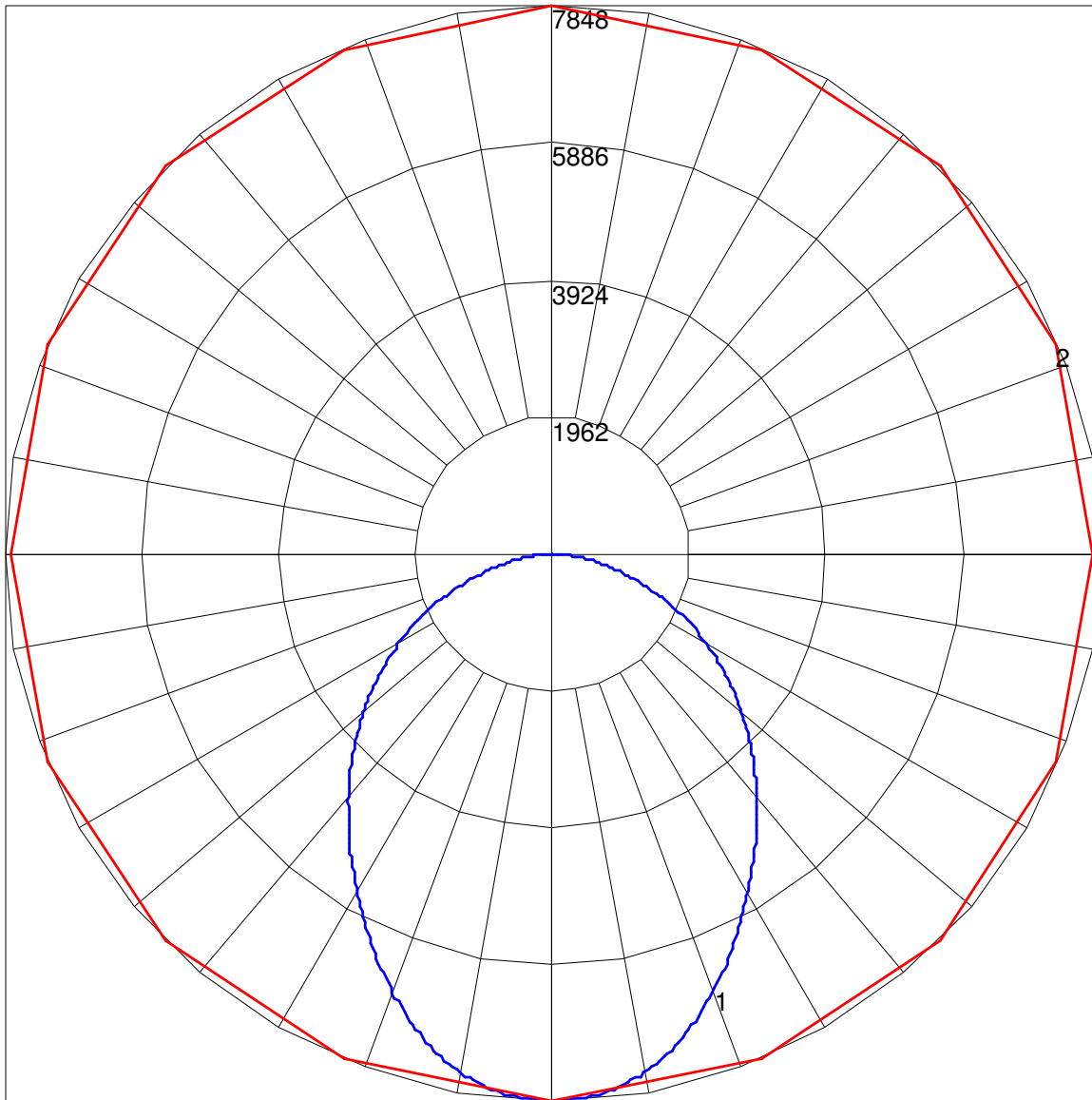
Reflectances

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	23.7	25.3	24.1	25.6	25.9	23.5	25.1	23.9	25.4	25.7
	3H	25.4	26.8	25.8	27.2	27.5	25.0	26.4	25.3	26.7	27.1
	4H	26.0	27.3	26.4	27.7	28.1	25.4	26.8	25.8	27.1	27.5
	6H	26.4	27.7	26.8	28.0	28.4	25.7	26.9	26.1	27.3	27.7
	8H	26.6	27.7	27.0	28.1	28.5	25.7	26.9	26.2	27.3	27.7
	12H	26.6	27.8	27.1	28.2	28.6	25.8	26.9	26.2	27.3	27.7
4H	2H	24.3	25.6	24.7	26.0	26.4	24.1	25.5	24.5	25.8	26.2
	3H	26.2	27.3	26.6	27.7	28.1	25.8	26.9	26.2	27.3	27.7
	4H	26.9	27.9	27.3	28.3	28.8	26.3	27.4	26.8	27.8	28.2
	6H	27.5	28.3	27.9	28.8	29.2	26.7	27.6	27.1	28.0	28.5
	8H	27.6	28.5	28.1	28.9	29.4	26.8	27.6	27.2	28.1	28.5
	12H	27.7	28.5	28.2	29.0	29.4	26.8	27.6	27.3	28.1	28.5
8H	4H	27.1	28.0	27.6	28.4	28.9	26.6	27.5	27.1	27.9	28.4
	6H	27.8	28.5	28.3	29.0	29.4	27.1	27.8	27.6	28.3	28.7
	8H	28.0	28.6	28.5	29.2	29.6	27.2	27.8	27.7	28.3	28.8
	12H	28.2	28.8	28.7	29.3	29.8	27.3	27.9	27.8	28.3	28.9
12H	4H	27.1	27.9	27.6	28.4	28.8	26.7	27.4	27.1	27.9	28.3
	6H	27.8	28.4	28.3	28.9	29.4	27.1	27.8	27.6	28.2	28.7
	8H	28.1	28.6	28.6	29.1	29.7	27.3	27.8	27.8	28.3	28.9

Maximum UGR = 29.8

POLAR GRAPH



Maximum Candela = 7848.235 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.)