



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-2-L180-850-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-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	26174	24010
75	22080	21039	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	7832.754	7832.754	7832.754	7832.754	7832.754
0.5	7763.164	7832.754	7848.219	7832.754	7848.219
1.0	7755.432	7825.022	7848.219	7825.022	7848.219
1.5	7755.432	7825.022	7840.486	7825.022	7840.486
2.0	7747.700	7817.290	7832.754	7817.290	7832.754
2.5	7747.700	7809.558	7832.754	7809.558	7825.022
3.0	7739.967	7801.825	7825.022	7801.825	7817.290
3.5	7727.596	7794.093	7809.558	7786.361	7794.093
4.0	7719.090	7786.361	7801.825	7778.629	7794.093
4.5	7709.812	7778.629	7794.093	7763.164	7778.629
5.0	7698.987	7763.164	7786.361	7755.432	7763.164
5.5	7685.842	7755.432	7770.896	7739.967	7747.700
6.0	7671.151	7739.967	7755.432	7722.957	7739.967
6.5	7655.686	7721.410	7739.967	7705.172	7719.090
7.0	7637.129	7702.853	7719.090	7687.388	7700.533
7.5	7614.705	7681.976	7696.667	7665.738	7681.202
8.0	7594.601	7659.552	7673.470	7643.314	7658.779
8.5	7572.178	7634.809	7648.727	7620.118	7635.582
9.0	7546.662	7608.519	7621.664	7595.375	7610.839
9.5	7519.599	7579.910	7595.375	7569.085	7583.776
10.0	7488.670	7550.528	7565.219	7542.022	7555.940
10.5	7457.741	7518.052	7535.063	7512.640	7525.011
11.0	7424.492	7485.577	7502.588	7481.711	7491.763
11.5	7390.470	7451.555	7470.112	7449.235	7460.061
12.0	7354.902	7415.987	7433.771	7414.440	7423.719
12.5	7320.107	7378.099	7396.656	7379.645	7387.378
13.0	7284.539	7340.211	7357.222	7340.984	7349.490
13.5	7246.651	7300.776	7317.014	7298.457	7308.509
14.0	7206.443	7258.249	7276.033	7253.610	7268.301
14.5	7165.462	7214.949	7233.506	7214.175	7225.001
15.0	7122.162	7172.421	7189.432	7171.648	7181.700
15.5	7077.315	7128.348	7144.585	7125.255	7137.626
16.0	7032.468	7082.727	7096.645	7078.088	7090.460
16.5	6984.528	7037.880	7049.479	7031.695	7040.973
17.0	6935.042	6990.714	7006.178	6982.982	6990.714
17.5	6885.555	6942.774	6955.919	6933.495	6939.681
18.0	6836.842	6893.288	6904.113	6883.236	6888.648
18.5	6785.810	6844.575	6854.626	6832.203	6836.069
19.0	6735.550	6795.088	6803.594	6780.397	6782.717
19.5	6684.517	6744.829	6753.334	6727.045	6730.911
20.0	6634.258	6693.023	6701.528	6674.465	6679.105
20.5	6583.225	6641.990	6649.722	6621.113	6625.752
21.0	6530.646	6590.957	6598.690	6567.761	6573.173
21.5	6481.160	6538.378	6546.110	6514.408	6519.047
22.0	6428.580	6487.345	6493.531	6461.056	6466.468
22.5	6378.321	6436.313	6440.179	6407.703	6413.116
23.0	6327.288	6383.733	6386.053	6352.804	6357.444
23.5	6276.255	6331.927	6330.381	6296.359	6301.772
24.0	6225.996	6281.668	6274.709	6239.914	6246.873
24.5	6178.829	6228.315	6216.717	6183.468	6190.427
25.0	6128.570	6175.736	6159.499	6127.023	6136.302
25.5	6076.764	6122.384	6102.280	6072.124	6081.403
26.0	6026.504	6069.031	6045.061	6017.225	6028.824
26.5	5976.245	6014.906	5987.843	5961.553	5975.471

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**CANDELA TABULATION - (Cont.)**

27.0	5925.985	5966.193	5930.624	5906.654	5922.892
27.5	5874.952	5919.799	5874.179	5850.982	5870.313
28.0	5823.920	5857.941	5818.507	5796.084	5817.734
28.5	5773.660	5804.589	5762.835	5741.958	5765.928
29.0	5717.988	5756.649	5707.936	5687.832	5714.122
29.5	5666.955	5701.750	5653.810	5635.253	5662.316
30.0	5615.922	5646.851	5600.458	5582.674	5608.190
30.5	5566.436	5595.045	5547.879	5531.641	5555.611
31.0	5516.177	5543.239	5494.526	5480.608	5503.032
31.5	5467.464	5491.433	5441.174	5428.802	5449.679
32.0	5419.524	5439.627	5388.595	5377.770	5397.100
32.5	5370.811	5389.368	5336.016	5327.510	5346.067
33.0	5322.871	5338.335	5283.436	5275.704	5295.035
33.5	5275.704	5288.849	5230.857	5224.671	5245.548
34.0	5227.764	5237.816	5179.051	5172.865	5196.062
34.5	5179.824	5186.783	5121.059	5120.286	5145.803
35.0	5131.111	5136.524	5070.800	5067.707	5095.543
35.5	5083.171	5086.264	5021.314	5015.128	5045.283
36.0	5034.458	5036.005	4968.734	4963.322	4994.251
36.5	4985.745	4984.199	4916.928	4910.743	4943.991
37.0	4937.805	4933.166	4865.122	4858.163	4892.185
37.5	4896.051	4880.587	4811.770	4805.584	4841.152
38.0	4849.658	4828.781	4759.964	4753.005	4790.120
38.5	4787.027	4776.202	4708.158	4701.199	4739.860
39.0	4735.221	4722.849	4658.672	4649.393	4688.827
39.5	4683.415	4670.270	4609.959	4597.587	4637.021
40.0	4630.062	4616.918	4554.287	4545.781	4585.215
40.5	4577.483	4564.338	4500.161	4493.975	4533.409
41.0	4524.904	4512.532	4449.128	4442.169	4481.604
41.5	4472.325	4459.180	4398.095	4389.590	4429.024
42.0	4418.972	4406.601	4346.289	4337.011	4376.445
42.5	4367.166	4354.022	4296.030	4284.432	4325.412
43.0	4314.587	4301.442	4245.770	4232.626	4275.153
43.5	4262.781	4248.863	4194.738	4179.273	4224.120
44.0	4210.975	4197.057	4145.251	4126.694	4172.314
44.5	4159.169	4142.158	4094.219	4074.888	4122.055
45.0	4108.137	4086.486	4043.959	4022.309	4071.022
45.5	4057.104	4037.000	3993.699	3969.730	4017.669
46.0	4005.298	3985.194	3943.440	3917.150	3965.863
46.5	3955.812	3927.975	3892.407	3864.571	3912.511
47.0	3904.779	3880.036	3842.148	3811.992	3859.159
47.5	3852.973	3831.323	3791.115	3760.186	3805.806
48.0	3801.940	3779.517	3740.855	3707.607	3750.907
48.5	3750.907	3726.937	3689.823	3655.801	3696.782
49.0	3699.875	3675.131	3639.563	3603.222	3643.429
49.5	3648.842	3623.325	3589.304	3552.962	3588.530
50.0	3597.036	3570.746	3539.044	3501.929	3534.405
50.5	3545.230	3518.167	3489.558	3448.577	3480.279
51.0	3492.651	3466.361	3439.298	3395.998	3425.380
51.5	3440.845	3414.555	3389.812	3345.738	3371.255
52.0	3388.265	3363.522	3339.552	3293.932	3315.582
52.5	3334.140	3311.716	3290.066	3242.126	3259.910
53.0	3280.787	3259.910	3239.807	3191.093	3204.238
53.5	3228.208	3208.104	3189.547	3140.061	3148.566
54.0	3175.629	3157.072	3139.287	3089.028	3092.894
54.5	3123.050	3106.039	3088.255	3036.449	3037.222

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**CANDELA TABULATION - (Cont.)**

55.0	3069.697	3055.006	3037.222	2984.643	2980.777
55.5	3017.891	3003.200	2986.962	2931.290	2925.105
56.0	2965.312	2951.394	2935.156	2878.711	2869.432
56.5	2912.733	2899.588	2880.258	2825.359	2813.760
57.0	2860.154	2848.555	2826.132	2772.006	2757.315
57.5	2808.348	2796.749	2778.965	2717.881	2700.870
58.0	2755.769	2744.943	2728.706	2663.755	2645.198
58.5	2703.189	2693.138	2676.900	2608.856	2587.979
59.0	2650.610	2640.558	2625.094	2553.184	2531.534
59.5	2598.031	2588.752	2573.288	2498.285	2475.862
60.0	2546.225	2536.173	2520.709	2442.613	2427.149
60.5	2493.646	2483.594	2469.676	2387.714	2366.064
61.0	2441.067	2431.015	2418.643	2332.815	2301.113
61.5	2388.487	2379.209	2366.064	2277.143	2242.348
62.0	2336.681	2325.856	2313.485	2221.471	2184.356
62.5	2283.329	2273.277	2260.906	2166.572	2125.591
63.0	2230.750	2221.471	2209.100	2110.900	2067.600
63.5	2177.397	2168.892	2158.067	2056.775	2008.835
64.0	2124.045	2117.086	2106.261	2001.876	1950.843
64.5	2071.466	2065.280	2053.682	1947.750	1892.851
65.0	2019.660	2013.474	2001.102	1892.851	1835.633
65.5	1967.854	1961.668	1950.070	1838.726	1779.187
66.0	1916.048	1909.862	1898.264	1784.600	1722.742
66.5	1864.242	1859.603	1846.458	1730.474	1666.297
67.0	1812.436	1808.570	1794.652	1671.709	1610.625
67.5	1761.403	1757.537	1742.846	1619.903	1555.726
68.0	1710.370	1706.504	1690.267	1568.097	1500.827
68.5	1660.111	1656.245	1638.461	1514.745	1446.701
69.0	1609.851	1605.212	1585.881	1460.619	1392.576
69.5	1560.365	1555.726	1534.075	1407.267	1339.996
70.0	1510.879	1505.466	1482.269	1353.914	1287.417
70.5	1462.166	1455.207	1430.464	1301.335	1235.611
71.0	1413.453	1404.947	1379.431	1248.756	1184.578
71.5	1364.740	1356.234	1328.398	1197.723	1133.546
72.0	1316.800	1306.748	1277.365	1146.690	1084.059
72.5	1268.860	1258.035	1227.106	1096.431	1035.346
73.0	1221.693	1209.322	1178.393	1046.945	986.633
73.5	1174.527	1161.382	1128.906	998.232	939.467
74.0	1126.587	1113.442	1080.193	951.065	892.300
74.5	1080.966	1066.275	1032.253	903.898	846.680
75.0	1033.800	1019.882	985.087	857.505	801.833
75.5	988.180	973.488	937.147	811.885	757.759
76.0	943.333	928.641	890.753	767.811	716.005
76.5	898.486	883.794	845.133	724.510	674.251
77.0	854.412	839.721	799.513	682.756	631.724
77.5	811.111	797.193	755.439	641.776	590.743
78.0	768.584	754.666	711.366	601.568	555.174
78.5	726.830	712.912	668.065	562.907	520.379
79.0	685.849	671.931	626.311	525.019	485.584
79.5	645.642	631.724	584.557	487.904	451.563
80.0	606.207	592.289	543.576	452.336	419.087
80.5	567.546	554.401	504.142	420.634	387.385
81.0	530.431	516.513	464.707	390.478	358.002
81.5	494.090	479.399	426.819	354.910	330.166
82.0	457.748	443.830	391.251	323.981	303.104
82.5	422.180	408.262	356.456	295.371	276.814

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**CANDELA TABULATION - (Cont.)**

83.0	387.385	373.467	323.207	268.309	252.071
83.5	354.136	340.218	290.732	242.792	228.874
84.0	320.888	307.743	259.803	218.822	207.224
84.5	288.412	275.268	231.194	195.626	186.347
85.0	256.710	244.339	204.131	174.749	166.243
85.5	225.008	214.183	178.615	153.871	146.139
86.0	194.852	185.574	155.418	133.768	126.035
86.5	163.923	156.964	132.221	114.437	109.025
87.0	134.541	129.902	110.571	98.973	95.106
87.5	106.705	105.158	91.240	85.055	82.735
88.0	81.188	81.962	75.776	70.363	69.590
88.5	57.992	61.858	60.311	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-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-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-ND-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2747.73	N.A.	15.40
0-30	5577.96	N.A.	31.30
0-40	8766.54	N.A.	49.20
0-60	14603.22	N.A.	82.00
0-80	17551.29	N.A.	98.60
0-90	17800.69	N.A.	100.00
10-90	17066.75	N.A.	95.90
20-40	6018.81	N.A.	33.80
20-50	9152.62	N.A.	51.40
40-70	7776.35	N.A.	43.70
60-80	2948.07	N.A.	16.60
70-80	1008.4	N.A.	5.70
80-90	249.39	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	17800.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	733.94
10-20	2013.79
20-30	2830.23
30-40	3188.58
40-50	3133.81
50-60	2702.87
60-70	1939.67
70-80	1008.4
80-90	249.39
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-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-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

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

UGR Viewed Endwise

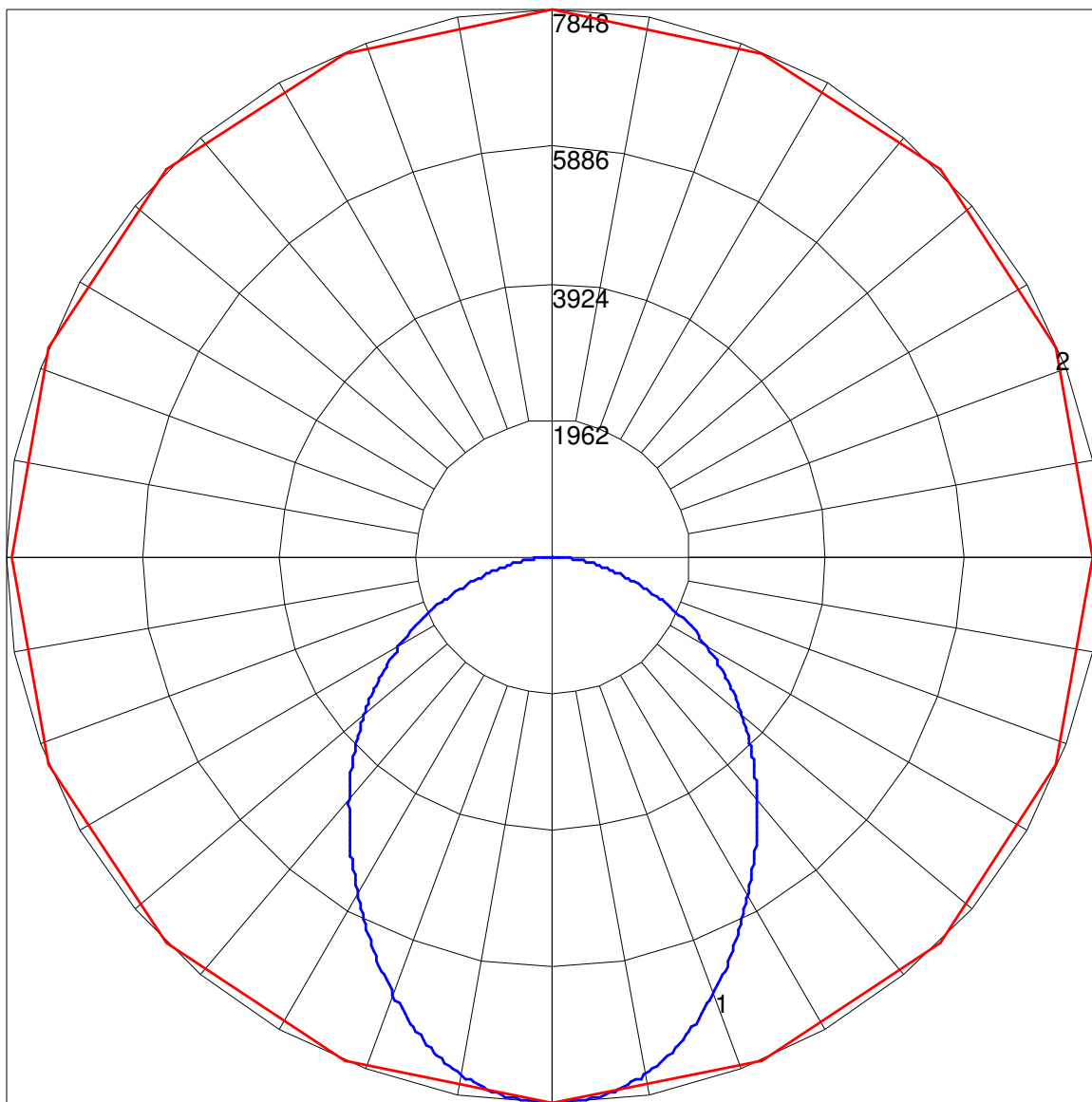
4H	2H	24.3	25.6	24.7	26.0	26.4	24.1	25.5	24.5	25.8	26.2
	3H	26.2	27.3	26.6	27.7	28.1	25.8	26.9	26.2	27.3	27.7
	4H	26.9	27.9	27.3	28.3	28.8	26.3	27.4	26.8	27.8	28.2
	6H	27.5	28.3	27.9	28.8	29.2	26.7	27.6	27.1	28.0	28.5
	8H	27.6	28.5	28.1	28.9	29.4	26.8	27.6	27.2	28.1	28.5
	12H	27.7	28.5	28.2	29.0	29.4	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 = 7848.219 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.)