



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GS-2-L240-835-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-L240-835-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	23451
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	156
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	46788	48236	49109
55	44783	46586	33509
65	40621	28412	9210
75	33254	9141	9259
85	14580	12531	11670

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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	8889.586	8889.586	8889.586	8889.586	8889.586
0.5	8779.769	8895.170	8914.713	8900.754	8918.436
1.0	8782.561	8896.100	8915.644	8900.754	8917.505
1.5	8786.283	8895.170	8916.575	8897.962	8914.713
2.0	8785.353	8897.031	8914.713	8898.892	8915.644
2.5	8783.492	8895.170	8915.644	8897.031	8912.852
3.0	8782.561	8891.447	8913.783	8897.962	8914.713
3.5	8779.769	8885.863	8912.852	8897.962	8914.713
4.0	8773.254	8883.071	8910.060	8901.684	8916.575
4.5	8764.879	8877.487	8906.338	8903.546	8918.436
5.0	8753.711	8870.973	8903.546	8901.684	8915.644
5.5	8745.335	8865.389	8899.823	8898.892	8911.921
6.0	8738.820	8859.805	8895.170	8892.378	8904.476
6.5	8729.514	8851.429	8890.516	8885.863	8894.239
7.0	8717.415	8842.123	8881.210	8876.557	8882.141
7.5	8707.178	8833.747	8872.834	8864.458	8869.112
8.0	8697.872	8823.510	8860.736	8851.429	8857.013
8.5	8693.218	8812.342	8849.568	8838.400	8847.707
9.0	8685.773	8800.243	8837.469	8825.371	8836.539
9.5	8675.536	8790.937	8827.232	8816.064	8828.163
10.0	8664.368	8782.561	8816.064	8804.897	8816.995
10.5	8654.131	8773.254	8803.035	8790.937	8803.966
11.0	8642.963	8763.948	8788.145	8775.116	8790.006
11.5	8633.657	8753.711	8773.254	8760.225	8768.601
12.0	8615.974	8740.682	8761.156	8740.682	8740.682
12.5	8596.431	8727.652	8744.404	8714.623	8718.346
13.0	8576.887	8712.762	8726.722	8688.565	8694.149
13.5	8556.413	8692.288	8709.039	8666.229	8667.160
14.0	8534.077	8672.744	8690.426	8641.102	8642.032
14.5	8504.296	8653.200	8668.091	8615.974	8620.627
15.0	8482.891	8633.657	8646.686	8590.847	8603.876
15.5	8470.793	8612.252	8621.558	8566.650	8587.124
16.0	8453.110	8588.055	8596.431	8545.245	8566.650
16.5	8434.497	8565.719	8566.650	8523.840	8548.037
17.0	8422.399	8542.453	8540.591	8502.435	8526.632
17.5	8402.855	8520.117	8512.672	8478.238	8506.157
18.0	8380.519	8494.059	8482.891	8455.902	8481.960
18.5	8356.322	8468.931	8456.833	8428.913	8450.318
19.0	8327.472	8444.734	8424.260	8400.994	8420.537
19.5	8295.830	8419.607	8393.548	8374.005	8396.340
20.0	8266.049	8394.479	8363.768	8345.155	8370.282
20.5	8237.199	8367.490	8336.779	8317.235	8344.224
21.0	8209.279	8338.640	8308.859	8291.177	8316.304
21.5	8176.707	8309.790	8280.009	8265.118	8285.593
22.0	8145.064	8280.940	8251.159	8237.199	8254.881
22.5	8118.076	8250.228	8220.447	8208.349	8226.962
23.0	8091.087	8218.586	8186.013	8174.845	8193.458
23.5	8064.098	8183.221	8152.510	8145.064	8163.677
24.0	8030.594	8151.579	8116.214	8115.284	8131.105
24.5	8001.744	8119.937	8078.988	8081.780	8100.393
25.0	7970.102	8080.849	8038.970	8051.069	8065.028
25.5	7933.806	8048.277	8003.605	8016.634	8031.525
26.0	7891.927	8015.704	7969.171	7982.200	7994.299
26.5	7846.325	7972.894	7935.668	7945.905	7958.003

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**CANDELA TABULATION - (Cont.)**

27.0	7804.446	7931.015	7899.372	7910.540	7921.708
27.5	7763.497	7887.274	7865.869	7875.175	7886.343
28.0	7724.410	7843.533	7829.573	7841.672	7850.978
28.5	7690.906	7799.793	7791.417	7805.377	7812.822
29.0	7653.680	7756.983	7752.329	7762.567	7775.596
29.5	7616.454	7714.173	7713.242	7723.479	7742.092
30.0	7579.228	7666.709	7671.363	7682.530	7703.005
30.5	7542.002	7622.969	7633.206	7640.651	7667.640
31.0	7501.984	7574.575	7595.049	7601.564	7628.553
31.5	7457.313	7527.112	7555.031	7561.546	7589.465
32.0	7410.780	7484.302	7513.152	7520.597	7548.517
32.5	7362.386	7438.700	7473.134	7484.302	7505.707
33.0	7312.131	7394.028	7436.838	7444.284	7466.619
33.5	7263.737	7346.565	7394.959	7403.335	7431.254
34.0	7214.413	7296.310	7349.357	7360.525	7390.306
34.5	7167.880	7246.985	7302.825	7317.715	7347.496
35.0	7125.070	7195.800	7251.639	7275.836	7301.894
35.5	7085.052	7144.614	7193.008	7232.095	7260.945
36.0	7036.658	7089.705	7145.544	7188.354	7218.135
36.5	6986.403	7034.797	7099.942	7142.752	7172.533
37.0	6928.703	6979.888	7049.687	7098.081	7127.862
37.5	6866.349	6925.911	6998.501	7053.410	7080.399
38.0	6806.787	6872.863	6952.899	7006.877	7031.074
38.5	6746.295	6818.886	6909.159	6958.483	6977.096
39.0	6693.248	6764.908	6857.973	6906.367	6926.841
39.5	6642.992	6707.207	6801.203	6851.458	6877.517
40.0	6590.876	6646.715	6744.433	6799.342	6826.331
40.5	6536.898	6586.223	6690.456	6746.295	6777.937
41.0	6486.643	6525.730	6635.547	6688.594	6728.612
41.5	6425.220	6464.307	6576.916	6635.547	6671.843
42.0	6357.282	6403.815	6517.354	6578.777	6614.142
42.5	6283.761	6342.392	6456.862	6522.008	6557.372
43.0	6212.101	6280.038	6399.162	6465.238	6502.464
43.5	6145.094	6213.962	6339.600	6407.538	6448.486
44.0	6085.532	6151.608	6285.622	6351.698	6398.231
44.5	6036.207	6090.185	6227.922	6301.443	6344.253
45.0	5985.022	6025.040	6170.221	6249.327	6281.900
45.5	5929.183	5961.755	6107.868	6186.973	6225.130
46.0	5863.106	5896.610	6038.069	6118.105	6163.707
46.5	5795.169	5828.672	5964.547	6061.335	6105.076
47.0	5723.508	5763.526	5902.194	6002.704	6048.306
47.5	5659.293	5701.173	5839.840	5941.281	5987.814
48.0	5600.662	5640.680	5773.764	5882.650	5925.460
48.5	5542.962	5585.772	5708.618	5824.950	5851.008
49.0	5481.539	5510.389	5647.195	5765.388	5756.081
49.5	5415.463	5430.353	5586.703	5705.826	5646.264
50.0	5332.635	5363.346	5523.418	5641.611	5514.112
50.5	5257.252	5304.715	5455.481	5572.743	5353.109
51.0	5186.522	5234.916	5387.543	5488.984	5167.909
51.5	5125.099	5166.979	5316.814	5386.613	4990.155
52.0	5066.468	5093.457	5249.807	5267.489	4846.834
52.5	4999.461	5022.728	5181.869	5113.001	4710.959
53.0	4922.217	4946.414	5112.070	4936.177	4507.147
53.5	4843.112	4875.685	5045.063	4751.908	4232.604
54.0	4769.590	4811.470	4974.334	4596.489	3918.975
54.5	4708.167	4740.740	4902.674	4462.475	3659.323

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**CANDELA TABULATION - (Cont.)**

55.0	4646.744	4657.912	4833.805	4294.958	3476.915
55.5	4568.570	4581.599	4763.076	4056.711	3338.248
56.0	4483.880	4520.176	4694.208	3759.833	3203.303
56.5	4413.151	4455.030	4624.409	3483.430	3034.855
57.0	4353.589	4382.439	4550.887	3287.993	2864.546
57.5	4286.582	4301.473	4469.921	3148.395	2723.087
58.0	4209.338	4222.367	4383.370	3034.855	2635.606
58.5	4122.787	4146.984	4277.276	2896.188	2580.697
59.0	4052.989	4073.463	4155.360	2706.335	2535.095
59.5	3985.051	3994.357	4016.693	2549.055	2470.880
60.0	3897.570	3911.529	3852.898	2455.990	2385.261
60.5	3813.811	3840.800	3705.855	2401.082	2276.374
61.0	3738.428	3763.556	3567.188	2354.549	2141.430
61.5	3672.352	3683.520	3406.186	2286.611	1999.040
62.0	3593.247	3598.830	3231.223	2199.130	1856.650
62.5	3495.528	3513.210	3005.075	2084.660	1667.728
63.0	3409.908	3439.689	2750.076	1942.270	1383.879
63.5	3341.971	3367.098	2543.471	1804.534	1154.939
64.0	3259.143	3282.409	2402.943	1666.797	1019.064
64.5	3180.037	3207.957	2295.918	1462.054	894.449
65.0	3105.585	3131.643	2172.141	1194.026	704.131
65.5	3006.936	3045.093	2016.722	1008.827	610.135
66.0	2923.177	2965.057	1886.431	895.752	589.103
66.5	2850.586	2892.466	1808.256	729.166	579.424
67.0	2771.481	2811.499	1746.833	611.066	570.955
67.5	2688.653	2731.463	1682.618	568.349	562.579
68.0	2603.033	2658.872	1599.790	556.623	554.762
68.5	2528.581	2573.252	1482.528	547.316	547.130
69.0	2455.990	2496.008	1348.514	538.661	539.499
69.5	2375.023	2416.903	1234.044	530.565	531.681
70.0	2295.918	2343.381	1076.764	522.840	523.957
70.5	2219.605	2259.623	874.999	514.930	516.512
71.0	2152.598	2172.141	744.987	507.577	509.067
71.5	2075.353	2080.937	646.896	500.225	500.691
72.0	1998.109	1984.150	534.659	491.943	492.594
72.5	1921.796	1860.373	479.193	484.032	483.939
73.0	1850.136	1731.012	464.768	476.028	474.539
73.5	1778.476	1620.265	455.182	467.466	465.047
74.0	1706.815	1503.003	445.782	458.253	454.623
74.5	1636.086	1374.573	436.941	448.295	444.293
75.0	1556.980	1210.778	428.007	438.151	433.498
75.5	1484.390	1096.308	419.445	427.728	422.237
76.0	1411.799	1012.549	411.162	416.932	410.790
76.5	1334.555	920.973	402.228	405.857	398.970
77.0	1257.311	823.813	393.293	394.503	387.244
77.5	1179.136	760.529	383.708	383.056	375.146
78.0	1091.655	683.378	373.750	371.237	363.047
78.5	1019.064	586.776	363.047	358.859	350.577
79.0	954.849	512.231	352.252	346.761	338.385
79.5	888.214	404.368	341.177	334.662	325.914
80.0	820.928	347.598	329.730	322.192	313.164
80.5	753.549	294.458	318.283	309.349	300.601
81.0	685.146	276.404	306.371	296.599	289.247
81.5	617.674	265.143	293.900	284.035	278.358
82.0	556.902	253.416	280.871	271.285	263.840
82.5	502.645	241.597	267.842	258.628	250.997

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**CANDELA TABULATION - (Cont.)**

83.0	444.293	230.057	253.975	245.599	238.526
83.5	387.337	218.052	240.201	232.756	225.776
84.0	332.336	205.767	225.962	219.355	212.654
84.5	280.964	192.738	212.002	205.395	198.973
85.0	229.871	179.616	197.577	190.318	183.990
85.5	203.347	165.656	182.129	174.125	168.634
86.0	174.218	151.231	165.842	157.094	151.975
86.5	131.873	136.154	147.601	138.667	135.131
87.0	109.724	120.426	128.244	119.403	116.797
87.5	95.764	104.047	107.583	99.859	97.067
88.0	81.897	86.085	86.923	78.361	74.917
88.5	66.728	66.728	65.890	55.095	50.814
89.0	48.766	48.115	44.857	35.737	32.852
89.5	30.525	32.294	28.850	24.476	23.732
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-L240-835-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-L240-835-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-L240-835-HA-HE-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3274.26	N.A.	14.00
0-30	6983.44	N.A.	29.80
0-40	11507.28	N.A.	49.10
0-60	20207.58	N.A.	86.20
0-80	23239.5	N.A.	99.10
0-90	23450.6	N.A.	100.00
10-90	22606.27	N.A.	96.40
20-40	8233.02	N.A.	35.10
20-50	12966.91	N.A.	55.30
40-70	10888.76	N.A.	46.40
60-80	3031.92	N.A.	12.90
70-80	843.46	N.A.	3.60
80-90	211.10	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	23450.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	844.33
10-20	2429.93
20-30	3709.18
30-40	4523.84
40-50	4733.9
50-60	3966.41
60-70	2188.46
70-80	843.46
80-90	211.10
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-L240-835-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	56	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-L240-835-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

X=2H	Y=2H	25.8	27.4	26.2	27.7	28.0	23.4	25.0	23.8	25.3	25.6
	3H	27.5	28.9	27.9	29.2	29.6	23.5	24.9	23.9	25.3	25.6
	4H	28.0	29.4	28.4	29.7	30.1	23.6	24.9	24.0	25.3	25.7
	6H	28.3	29.5	28.7	29.9	30.3	23.7	25.0	24.2	25.3	25.7
	8H	28.4	29.5	28.8	29.9	30.3	23.8	25.0	24.2	25.4	25.8
	12H	28.4	29.5	28.8	29.9	30.3	23.9	25.0	24.3	25.4	25.8

UGR Viewed Endwise

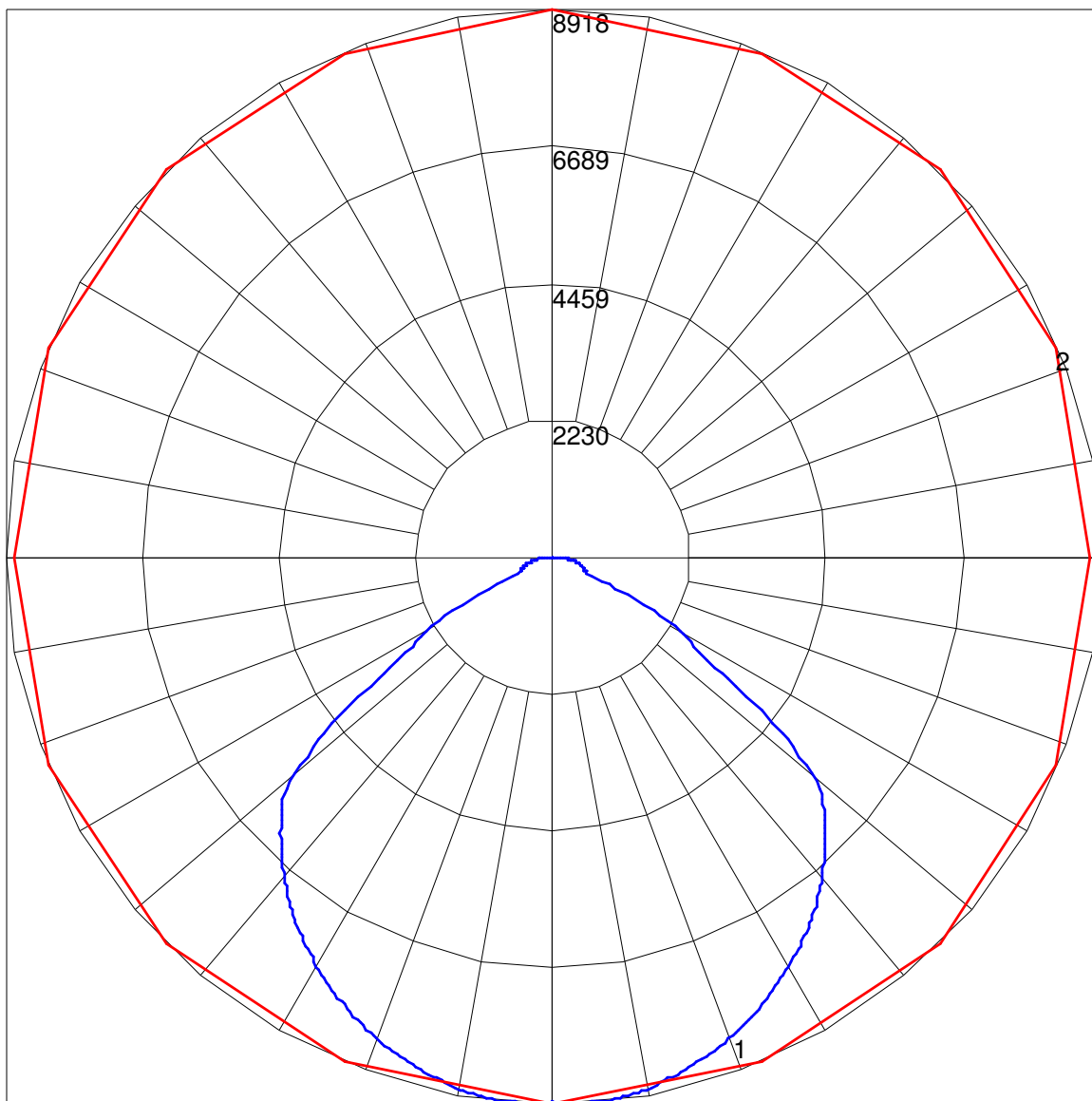
4H	2H	26.1	27.4	26.5	27.7	28.1	24.0	25.4	24.4	25.7	26.1
	3H	27.9	29.0	28.3	29.4	29.8	24.2	25.3	24.6	25.7	26.1
	4H	28.5	29.5	28.9	29.9	30.3	24.4	25.3	24.8	25.7	26.2
	6H	28.9	29.7	29.3	30.1	30.6	24.5	25.4	25.0	25.8	26.3
	8H	28.9	29.7	29.4	30.2	30.6	24.6	25.4	25.1	25.9	26.3
	12H	29.0	29.7	29.5	30.2	30.6	24.7	25.4	25.2	25.9	26.4

8H	4H	28.5	29.3	28.9	29.7	30.2	24.5	25.3	25.0	25.8	26.2
	6H	28.8	29.5	29.3	30.0	30.4	24.8	25.5	25.3	25.9	26.4
	8H	28.9	29.5	29.4	30.0	30.5	24.9	25.5	25.4	26.0	26.5
	12H	29.0	29.5	29.5	30.0	30.6	25.1	25.6	25.6	26.1	26.7

12H	4H	28.4	29.2	28.9	29.6	30.1	24.6	25.3	25.0	25.7	26.2
	6H	28.8	29.4	29.3	29.9	30.4	24.8	25.4	25.3	25.9	26.4
	8H	28.9	29.4	29.4	29.9	30.5	25.0	25.5	25.5	26.0	26.6

Maximum UGR = 30.6

POLAR GRAPH



Maximum Candela = 8918.436 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.)