



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L240-850-HA-HE-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14617179.01
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 2023-03-14
[TEST DATE] 1/6/2023
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] GS-4-L240-850-HA-HE-DIM-UNV
[LUMINAIRE] White aluminum housing, prismatic lense enclosure
[LAMP] 448 White LEDs
[BALLAST] 0-10V LED DRIVER

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	26159
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	169
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)	3.36 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	25894	26695	27178
55	24784	25782	18545
65	22481	15724	5097
75	18404	5059	5124
85	8069	6935	6458

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-4-L240-850-HA-HE-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	9916.179	9916.179	9916.179	9916.179	9916.179
0.5	9793.681	9922.408	9944.209	9928.637	9948.361
1.0	9796.795	9923.446	9945.247	9928.637	9947.323
1.5	9800.947	9922.408	9946.285	9925.523	9944.209
2.0	9799.909	9924.484	9944.209	9926.561	9945.247
2.5	9797.833	9922.408	9945.247	9924.484	9942.133
3.0	9796.795	9918.256	9943.171	9925.523	9944.209
3.5	9793.681	9912.027	9942.133	9925.523	9944.209
4.0	9786.414	9908.913	9939.018	9929.675	9946.285
4.5	9777.071	9902.684	9934.866	9931.751	9948.361
5.0	9764.613	9895.417	9931.751	9929.675	9945.247
5.5	9755.270	9889.188	9927.599	9926.561	9941.094
6.0	9748.003	9882.959	9922.408	9919.294	9932.789
6.5	9737.622	9873.616	9917.218	9912.027	9921.370
7.0	9724.126	9863.235	9906.836	9901.646	9907.874
7.5	9712.707	9853.892	9897.493	9888.150	9893.341
8.0	9702.326	9842.473	9883.998	9873.616	9879.845
8.5	9697.135	9830.015	9871.540	9859.083	9869.464
9.0	9688.830	9816.519	9858.044	9844.549	9857.006
9.5	9677.410	9806.138	9846.625	9834.168	9847.663
10.0	9664.953	9796.795	9834.168	9821.710	9835.206
10.5	9653.534	9786.414	9819.634	9806.138	9820.672
11.0	9641.076	9776.032	9803.024	9788.490	9805.100
11.5	9630.695	9764.613	9786.414	9771.880	9781.223
12.0	9610.970	9750.079	9772.918	9750.079	9750.079
12.5	9589.170	9735.546	9754.232	9721.012	9725.164
13.0	9567.369	9718.936	9734.507	9691.944	9698.173
13.5	9544.530	9696.097	9714.783	9667.029	9668.067
14.0	9519.615	9674.296	9694.021	9639.000	9640.038
14.5	9486.395	9652.495	9669.105	9610.970	9616.161
15.0	9462.518	9630.695	9645.229	9582.941	9597.475
15.5	9449.023	9606.818	9617.199	9555.950	9578.789
16.0	9429.298	9579.827	9589.170	9532.073	9555.950
16.5	9408.536	9554.912	9555.950	9508.196	9535.187
17.0	9395.040	9528.958	9526.882	9484.319	9511.310
17.5	9373.240	9504.043	9495.738	9457.328	9488.472
18.0	9348.325	9474.976	9462.518	9432.413	9461.480
18.5	9321.333	9446.947	9433.451	9402.307	9426.184
19.0	9289.151	9419.955	9397.116	9371.163	9392.964
19.5	9253.855	9391.926	9362.858	9341.058	9365.973
20.0	9220.635	9363.896	9329.638	9308.876	9336.905
20.5	9188.453	9333.791	9299.533	9277.732	9307.838
21.0	9157.309	9301.609	9268.389	9248.664	9276.694
21.5	9120.975	9269.427	9236.207	9219.597	9242.436
22.0	9085.679	9237.245	9204.025	9188.453	9208.178
22.5	9055.573	9202.987	9169.767	9156.271	9177.034
23.0	9025.467	9167.691	9131.356	9118.899	9139.661
23.5	8995.362	9128.242	9093.984	9085.679	9106.441
24.0	8957.989	9092.946	9053.497	9052.459	9070.107
24.5	8925.807	9057.649	9011.972	9015.086	9035.849
25.0	8890.511	9014.048	8967.332	8980.828	8996.400
25.5	8850.024	8977.714	8927.884	8942.417	8959.027
26.0	8803.308	8941.379	8889.473	8904.007	8917.502
26.5	8752.440	8893.625	8852.100	8863.520	8877.015

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-4-L240-850-HA-HE-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	8705.725	8846.910	8811.613	8824.071	8836.528
27.5	8660.047	8798.118	8774.241	8784.622	8797.080
28.0	8616.446	8749.326	8733.754	8747.250	8757.631
28.5	8579.073	8700.534	8691.191	8706.763	8715.068
29.0	8537.548	8652.780	8647.590	8659.009	8673.543
29.5	8496.023	8605.026	8603.988	8615.408	8636.170
30.0	8454.498	8552.082	8557.273	8569.730	8592.569
30.5	8412.973	8503.290	8514.709	8523.014	8553.120
31.0	8368.334	8449.307	8472.146	8479.413	8509.519
31.5	8318.504	8396.363	8427.507	8434.774	8465.917
32.0	8266.597	8348.609	8380.791	8389.096	8420.240
32.5	8212.615	8297.741	8336.152	8348.609	8372.486
33.0	8156.556	8247.911	8295.665	8303.970	8328.885
33.5	8102.573	8194.967	8248.949	8258.292	8289.436
34.0	8047.553	8138.908	8198.081	8210.538	8243.759
34.5	7995.646	8083.887	8146.175	8162.785	8196.005
35.0	7947.893	8026.790	8089.078	8116.069	8145.137
35.5	7903.253	7969.693	8023.676	8067.277	8099.459
36.0	7849.271	7908.444	7970.731	8018.485	8051.705
36.5	7793.212	7847.194	7919.863	7967.617	8000.837
37.0	7728.848	7785.945	7863.804	7917.787	7951.007
37.5	7659.294	7725.734	7806.707	7867.957	7898.063
38.0	7592.854	7666.560	7755.839	7816.051	7843.042
38.5	7525.375	7606.349	7707.047	7762.068	7782.831
39.0	7466.202	7546.138	7649.950	7703.933	7726.772
39.5	7410.143	7481.774	7586.625	7642.684	7671.751
40.0	7352.008	7414.296	7523.299	7584.548	7614.654
40.5	7291.797	7346.818	7463.088	7525.375	7560.672
41.0	7235.738	7279.339	7401.838	7461.012	7505.651
41.5	7167.222	7210.823	7336.436	7401.838	7442.325
42.0	7091.439	7143.345	7269.996	7338.513	7377.961
42.5	7009.427	7074.829	7202.518	7275.187	7314.636
43.0	6929.491	7005.274	7138.154	7211.861	7253.386
43.5	6854.746	6931.567	7071.714	7147.497	7193.175
44.0	6788.306	6862.013	7011.503	7085.210	7137.116
44.5	6733.285	6793.496	6947.139	7029.151	7076.905
45.0	6676.188	6720.828	6882.775	6971.016	7007.350
45.5	6613.901	6650.235	6813.221	6901.462	6944.025
46.0	6540.194	6577.566	6735.361	6824.640	6875.508
46.5	6464.411	6501.783	6653.349	6761.315	6810.107
47.0	6384.475	6429.114	6583.795	6695.913	6746.781
47.5	6312.844	6359.560	6514.241	6627.396	6679.303
48.0	6247.442	6292.082	6440.534	6561.994	6609.748
48.5	6183.078	6230.832	6367.865	6497.631	6526.698
49.0	6114.562	6146.744	6299.349	6431.191	6420.809
49.5	6040.855	6057.465	6231.870	6364.750	6298.310
50.0	5948.462	5982.720	6161.278	6293.120	6150.897
50.5	5864.374	5917.318	6085.495	6216.298	5971.301
51.0	5785.476	5839.459	6009.711	6122.867	5764.714
51.5	5716.960	5763.676	5930.814	6008.673	5566.432
52.0	5651.558	5681.664	5856.069	5875.793	5406.560
52.5	5576.813	5602.766	5780.286	5703.464	5254.994
53.0	5490.648	5517.640	5702.426	5506.220	5027.644
53.5	5402.408	5438.742	5627.681	5300.671	4721.397
54.0	5320.396	5367.111	5548.783	5127.304	4371.549
54.5	5251.879	5288.214	5468.848	4977.814	4081.911

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-4-L240-850-HA-HE-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	5183.363	5195.821	5392.026	4790.951	3878.439
55.5	5096.160	5110.694	5313.129	4525.191	3723.758
56.0	5001.691	5042.178	5236.308	4194.029	3573.230
56.5	4922.793	4969.509	5158.448	3885.706	3385.329
57.0	4856.353	4888.535	5076.436	3667.699	3195.352
57.5	4781.608	4798.218	4986.119	3511.980	3037.557
58.0	4695.444	4709.978	4889.573	3385.329	2939.973
58.5	4598.898	4625.889	4771.227	3230.648	2878.723
59.0	4521.039	4543.877	4635.233	3018.870	2827.855
59.5	4445.255	4455.637	4480.552	2843.427	2756.225
60.0	4347.672	4363.244	4297.842	2739.614	2660.717
60.5	4254.240	4284.346	4133.818	2678.365	2539.256
61.0	4170.152	4198.182	3979.137	2626.459	2388.728
61.5	4096.445	4108.903	3799.541	2550.676	2229.895
62.0	4008.204	4014.433	3604.373	2453.092	2071.061
62.5	3899.201	3918.926	3352.109	2325.402	1860.322
63.0	3803.694	3836.914	3067.662	2166.569	1543.693
63.5	3727.910	3755.940	2837.198	2012.926	1288.314
64.0	3635.517	3661.470	2680.441	1859.284	1136.748
64.5	3547.277	3578.420	2561.057	1630.896	997.743
65.0	3464.226	3493.294	2422.986	1331.916	785.446
65.5	3354.185	3396.748	2249.619	1125.329	680.595
66.0	3260.754	3307.469	2104.281	999.196	657.134
66.5	3179.780	3226.496	2017.079	813.372	646.337
67.0	3091.539	3136.179	1948.562	681.634	636.890
67.5	2999.146	3046.900	1876.932	633.984	627.547
68.0	2903.638	2965.926	1784.539	620.903	618.827
68.5	2820.588	2870.418	1653.735	610.522	610.314
69.0	2739.614	2784.254	1504.245	600.867	601.802
69.5	2649.298	2696.013	1376.555	591.836	593.081
70.0	2561.057	2614.001	1201.112	583.219	584.465
70.5	2475.930	2520.570	976.046	574.395	576.160
71.0	2401.185	2422.986	831.020	566.194	567.855
71.5	2315.021	2321.250	721.601	557.993	558.512
72.0	2228.857	2213.285	596.403	548.753	549.480
72.5	2143.730	2075.214	534.531	539.929	539.826
73.0	2063.794	1930.914	518.440	531.001	529.340
73.5	1983.859	1807.377	507.747	521.451	518.752
74.0	1903.923	1676.573	497.262	511.173	507.125
74.5	1825.025	1533.312	487.400	500.065	495.601
75.0	1736.785	1350.602	477.434	488.750	483.559
75.5	1655.811	1222.912	467.883	477.123	470.998
76.0	1574.837	1129.481	458.644	465.080	458.229
76.5	1488.673	1027.329	448.678	452.727	445.045
77.0	1402.508	918.949	438.712	440.062	431.964
77.5	1315.306	848.357	428.019	427.293	418.469
78.0	1217.722	762.296	416.911	414.108	404.973
78.5	1136.748	654.538	404.973	400.301	391.062
79.0	1065.117	571.385	392.931	386.806	377.463
79.5	990.787	451.066	380.577	373.310	363.552
80.0	915.731	387.740	367.808	359.399	349.329
80.5	840.571	328.463	355.039	345.073	335.315
81.0	764.268	308.323	341.751	330.851	322.650
81.5	689.004	295.762	327.840	316.836	310.503
82.0	621.215	282.682	313.306	302.614	294.309
82.5	560.692	269.498	298.773	288.495	279.983

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-4-L240-850-HA-HE-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	495.601	256.625	283.305	273.961	266.072
83.5	432.068	243.233	267.940	259.635	251.849
84.0	370.715	229.530	252.057	244.686	237.212
84.5	313.410	214.996	236.485	229.114	221.951
85.0	256.417	200.358	220.394	212.297	205.238
85.5	226.831	184.786	203.161	194.233	188.108
86.0	194.337	168.695	184.994	175.236	169.526
86.5	147.102	151.878	164.647	154.681	150.736
87.0	122.395	134.334	143.054	133.192	130.285
87.5	106.823	116.062	120.007	111.391	108.277
88.0	91.355	96.027	96.961	87.410	83.569
88.5	74.434	74.434	73.499	61.457	56.682
89.0	54.398	53.671	50.038	39.864	36.646
89.5	34.051	36.023	32.182	27.303	26.472
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-4-L240-850-HA-HE-DIM-UNV_.IES

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-4-L240-850-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-4-L240-850-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-4-L240-850-HA-HE-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3652.38	N.A.	14.00
0-30	7789.91	N.A.	29.80
0-40	12836.17	N.A.	49.10
0-60	22541.21	N.A.	86.20
0-80	25923.26	N.A.	99.10
0-90	26158.74	N.A.	100.00
10-90	25216.9	N.A.	96.40
20-40	9183.79	N.A.	35.10
20-50	14464.37	N.A.	55.30
40-70	12146.23	N.A.	46.40
60-80	3382.05	N.A.	12.90
70-80	940.86	N.A.	3.60
80-90	235.48	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	26158.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	941.84
10-20	2710.55
20-30	4137.53
30-40	5046.26
40-50	5280.58
50-60	4424.46
60-70	2441.19
70-80	940.86
80-90	235.48
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-4-L240-850-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-4-L240-850-HA-HE-DIM-UNV_.IES

UGR TABLE - CORRECTED

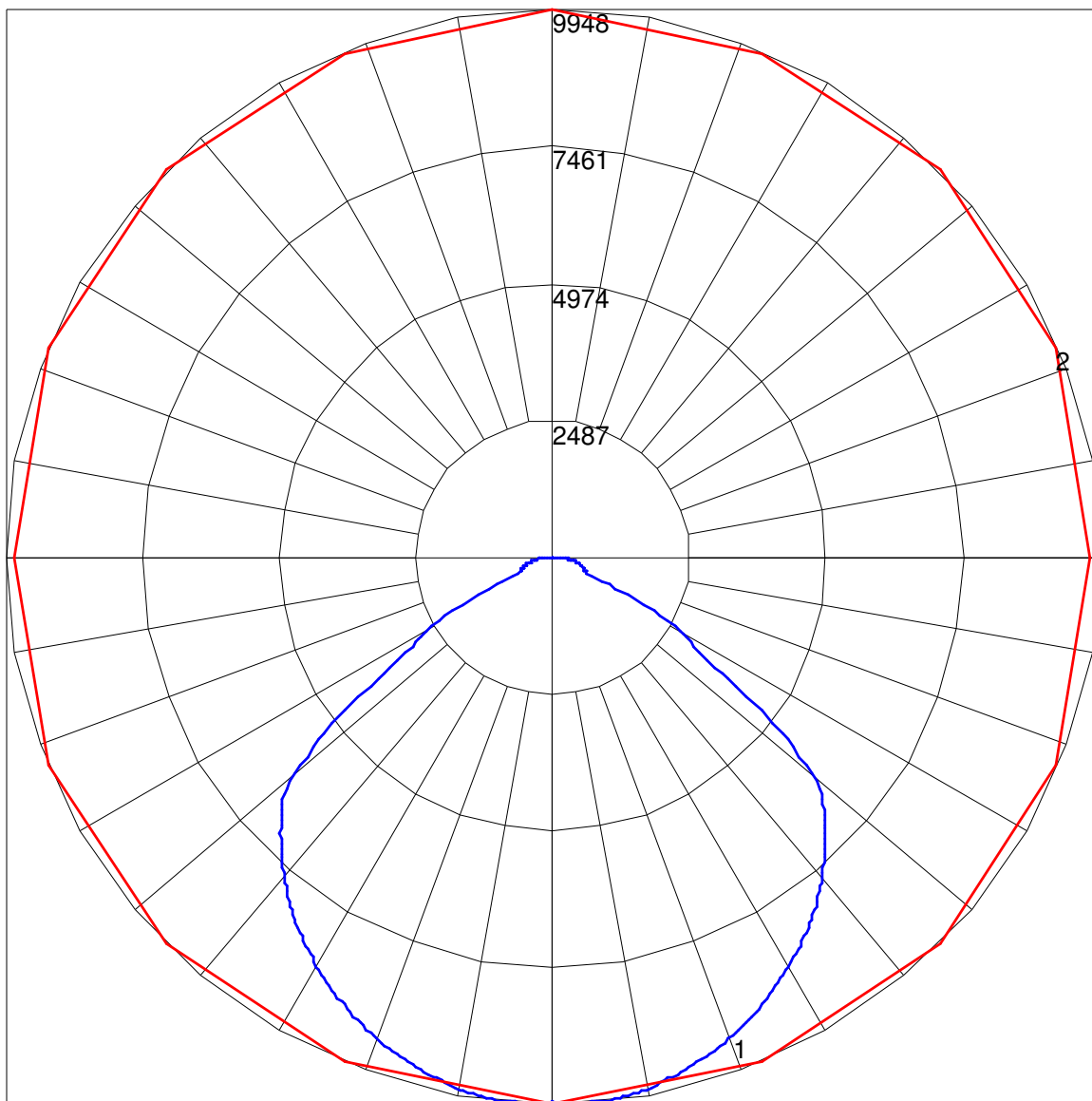
Reflectances

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	23.7	25.3	24.1	25.6	25.9	21.3	22.9	21.7	23.2	23.5
	3H	25.4	26.8	25.8	27.1	27.5	21.4	22.8	21.8	23.1	23.5
	4H	25.9	27.2	26.3	27.6	28.0	21.5	22.8	21.9	23.2	23.5
	6H	26.2	27.4	26.6	27.8	28.2	21.6	22.8	22.0	23.2	23.6
	8H	26.3	27.4	26.7	27.8	28.2	21.7	22.8	22.1	23.2	23.6
	12H	26.3	27.4	26.7	27.8	28.2	21.7	22.8	22.2	23.2	23.6
4H	2H	23.9	25.2	24.3	25.6	26.0	21.9	23.2	22.3	23.6	23.9
	3H	25.8	26.9	26.2	27.3	27.7	22.1	23.2	22.5	23.6	24.0
	4H	26.4	27.4	26.8	27.8	28.2	22.2	23.2	22.7	23.6	24.0
	6H	26.7	27.6	27.2	28.0	28.5	22.4	23.3	22.9	23.7	24.2
	8H	26.8	27.6	27.3	28.0	28.5	22.5	23.3	23.0	23.7	24.2
	12H	26.8	27.5	27.3	28.0	28.5	22.6	23.3	23.1	23.8	24.3
8H	4H	26.3	27.1	26.8	27.6	28.0	22.4	23.2	22.9	23.6	24.1
	6H	26.7	27.3	27.2	27.8	28.3	22.7	23.3	23.2	23.8	24.3
	8H	26.8	27.4	27.3	27.9	28.4	22.8	23.4	23.3	23.9	24.4
	12H	26.9	27.4	27.4	27.9	28.4	23.0	23.5	23.5	24.0	24.6
12H	4H	26.3	27.0	26.8	27.5	28.0	22.4	23.1	22.9	23.6	24.1
	6H	26.7	27.3	27.2	27.7	28.3	22.7	23.3	23.2	23.7	24.3
	8H	26.8	27.3	27.3	27.8	28.3	22.9	23.4	23.4	23.9	24.5

Maximum UGR = 28.5

POLAR GRAPH



Maximum Candela = 9948.361 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.)