



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-2-L240-840-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-L240-840-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	22317
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	156
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	40263	39634	39899
55	37090	36697	36015
65	33119	32815	30101
75	27681	26377	21470
85	20412	16232	13219

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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	9819.848	9819.848	9819.848	9819.848	9819.848
0.5	9732.604	9819.848	9839.236	9819.848	9839.236
1.0	9722.910	9810.154	9839.236	9810.154	9839.236
1.5	9722.910	9810.154	9829.542	9810.154	9829.542
2.0	9713.216	9800.460	9819.848	9800.460	9819.848
2.5	9713.216	9790.767	9819.848	9790.767	9810.154
3.0	9703.522	9781.073	9810.154	9781.073	9800.460
3.5	9688.012	9771.379	9790.767	9761.685	9771.379
4.0	9677.349	9761.685	9781.073	9751.991	9771.379
4.5	9665.716	9751.991	9771.379	9732.604	9751.991
5.0	9652.145	9732.604	9761.685	9722.910	9732.604
5.5	9635.665	9722.910	9742.297	9703.522	9713.216
6.0	9617.247	9703.522	9722.910	9682.196	9703.522
6.5	9597.859	9680.257	9703.522	9659.900	9677.349
7.0	9574.594	9656.992	9677.349	9637.604	9654.084
7.5	9546.482	9630.818	9649.237	9610.461	9629.849
8.0	9521.278	9602.706	9620.155	9582.349	9601.737
8.5	9493.166	9571.686	9589.135	9553.268	9572.655
9.0	9461.176	9538.727	9555.206	9522.247	9541.635
9.5	9427.248	9502.860	9522.247	9489.288	9507.707
10.0	9388.473	9466.023	9484.442	9455.360	9472.809
10.5	9349.697	9425.309	9446.636	9418.524	9434.034
11.0	9308.014	9384.595	9405.922	9379.748	9392.350
11.5	9265.361	9341.942	9365.207	9339.034	9352.605
12.0	9220.769	9297.351	9319.646	9295.412	9307.044
12.5	9177.147	9249.851	9273.116	9251.790	9261.483
13.0	9132.556	9202.351	9223.678	9203.321	9213.984
13.5	9085.056	9152.913	9173.270	9150.004	9162.606
14.0	9034.648	9099.597	9121.892	9093.780	9112.199
14.5	8983.271	9045.311	9068.576	9044.342	9057.913
15.0	8928.985	8991.995	9013.321	8991.026	9003.628
15.5	8872.761	8936.740	8957.097	8932.863	8948.373
16.0	8816.537	8879.547	8896.996	8873.730	8889.240
16.5	8756.435	8823.322	8837.863	8815.567	8827.200
17.0	8694.395	8764.190	8783.578	8754.496	8764.190
17.5	8632.354	8704.088	8720.568	8692.456	8700.211
18.0	8571.283	8642.048	8655.619	8629.446	8636.232
18.5	8507.304	8580.977	8593.579	8565.467	8570.314
19.0	8444.294	8518.936	8529.599	8500.518	8503.426
19.5	8380.315	8455.926	8466.590	8433.631	8438.477
20.0	8317.305	8390.978	8401.641	8367.713	8373.529
20.5	8253.325	8326.998	8336.692	8300.825	8306.641
21.0	8187.407	8263.019	8272.713	8233.938	8240.723
21.5	8125.367	8197.101	8206.795	8167.050	8172.867
22.0	8059.449	8133.122	8140.877	8100.163	8106.949
22.5	7996.439	8069.143	8073.990	8033.275	8040.061
23.0	7932.460	8003.225	8006.133	7964.449	7970.266
23.5	7868.480	7938.276	7936.337	7893.684	7900.470
24.0	7805.470	7875.266	7866.542	7822.919	7831.644
24.5	7746.338	7808.379	7793.838	7752.154	7760.879
25.0	7683.328	7742.461	7722.104	7681.389	7693.022
25.5	7618.380	7675.573	7650.369	7612.563	7624.196
26.0	7555.370	7608.686	7578.635	7543.737	7558.278
26.5	7492.360	7540.829	7506.901	7473.942	7491.390

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CANDELA TABULATION - (Cont.)

27.0	7429.350	7479.758	7435.166	7405.115	7425.472
27.5	7365.371	7421.595	7364.401	7335.320	7359.554
28.0	7301.391	7344.044	7294.606	7266.494	7293.636
28.5	7238.382	7277.157	7224.810	7198.637	7228.688
29.0	7168.586	7217.055	7155.984	7130.780	7163.739
29.5	7104.607	7148.229	7088.127	7064.862	7098.790
30.0	7040.627	7079.403	7021.240	6998.944	7030.934
30.5	6978.587	7014.454	6955.322	6934.965	6965.016
31.0	6915.577	6949.505	6888.434	6870.985	6899.098
31.5	6854.506	6884.557	6821.547	6806.037	6832.210
32.0	6794.404	6819.608	6755.629	6742.058	6766.292
32.5	6733.333	6756.598	6689.711	6679.048	6702.313
33.0	6673.231	6692.619	6623.793	6614.099	6638.334
33.5	6614.099	6630.579	6557.875	6550.120	6576.293
34.0	6553.997	6566.599	6492.926	6485.171	6514.253
34.5	6493.896	6502.620	6420.222	6419.253	6451.243
35.0	6432.824	6439.610	6357.213	6353.335	6388.233
35.5	6372.723	6376.600	6295.172	6287.417	6325.223
36.0	6311.652	6313.590	6229.254	6222.468	6261.244
36.5	6250.580	6248.642	6164.305	6156.550	6198.234
37.0	6190.479	6184.662	6099.357	6090.632	6133.285
37.5	6138.132	6118.744	6032.469	6024.714	6069.306
38.0	6079.969	6053.796	5967.521	5958.796	6005.327
38.5	6001.449	5987.878	5902.572	5893.848	5942.317
39.0	5936.500	5920.990	5840.532	5828.899	5878.337
39.5	5871.552	5855.072	5779.460	5763.950	5813.389
40.0	5804.664	5788.185	5709.665	5699.002	5748.440
40.5	5738.746	5722.267	5641.808	5634.053	5683.491
41.0	5672.828	5657.318	5577.829	5569.104	5618.543
41.5	5606.910	5590.431	5513.849	5503.186	5552.625
42.0	5540.023	5524.513	5448.901	5437.268	5486.707
42.5	5475.074	5458.595	5385.891	5371.350	5422.728
43.0	5409.156	5392.677	5322.881	5306.402	5359.718
43.5	5344.208	5326.759	5258.902	5239.514	5295.738
44.0	5279.259	5261.810	5196.861	5173.596	5230.790
44.5	5214.310	5192.984	5132.882	5108.647	5167.780
45.0	5150.331	5123.188	5069.872	5042.729	5103.801
45.5	5086.352	5061.148	5006.862	4976.811	5036.913
46.0	5021.403	4996.199	4943.852	4910.893	4971.964
46.5	4959.363	4924.465	4879.873	4844.975	4905.077
47.0	4895.383	4864.363	4816.863	4779.057	4838.190
47.5	4830.435	4803.292	4752.884	4714.109	4771.302
48.0	4766.455	4738.343	4689.874	4648.191	4702.476
48.5	4702.476	4672.425	4625.895	4583.242	4634.619
49.0	4638.497	4607.477	4562.885	4517.324	4567.732
49.5	4574.518	4542.528	4499.875	4454.314	4498.906
50.0	4509.569	4476.610	4436.865	4390.335	4431.049
50.5	4444.620	4410.692	4374.825	4323.447	4363.192
51.0	4378.702	4345.743	4311.815	4257.529	4294.366
51.5	4313.754	4280.795	4249.774	4194.519	4226.509
52.0	4247.836	4216.815	4186.764	4129.571	4156.714
52.5	4179.979	4151.867	4124.724	4064.622	4086.918
53.0	4113.091	4086.918	4061.714	4000.643	4017.122
53.5	4047.173	4021.969	3998.704	3936.664	3947.327
54.0	3981.255	3957.990	3935.694	3872.684	3877.531
54.5	3915.337	3894.011	3871.715	3806.766	3807.736

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CANDELA TABULATION - (Cont.)

55.0	3848.450	3830.032	3807.736	3741.818	3736.971
55.5	3783.501	3765.083	3744.726	3674.930	3667.175
56.0	3717.583	3700.134	3679.777	3609.012	3597.380
56.5	3651.665	3635.186	3610.951	3542.125	3527.584
57.0	3585.747	3571.206	3543.094	3475.237	3456.819
57.5	3520.798	3506.258	3483.962	3407.381	3386.054
58.0	3454.880	3441.309	3420.952	3339.524	3316.259
58.5	3388.962	3376.360	3356.003	3270.698	3244.524
59.0	3323.044	3310.442	3291.055	3200.902	3173.759
59.5	3257.126	3245.494	3226.106	3132.076	3103.964
60.0	3192.178	3179.576	3160.188	3062.280	3042.893
60.5	3126.260	3113.658	3096.209	2993.454	2966.311
61.0	3060.342	3047.740	3032.229	2924.628	2884.883
61.5	2994.424	2982.791	2966.311	2854.832	2811.210
62.0	2929.475	2915.904	2900.393	2785.037	2738.506
62.5	2862.587	2849.985	2834.475	2716.211	2664.833
63.0	2796.669	2785.037	2769.527	2646.415	2592.130
63.5	2729.782	2719.119	2705.547	2578.558	2518.457
64.0	2662.895	2654.170	2640.599	2509.732	2445.753
64.5	2596.977	2589.222	2574.681	2441.875	2373.049
65.0	2532.028	2524.273	2508.763	2373.049	2301.315
65.5	2467.079	2459.324	2444.783	2305.192	2230.550
66.0	2402.131	2394.376	2379.835	2237.336	2159.785
66.5	2337.182	2331.366	2314.886	2169.479	2089.020
67.0	2272.233	2267.386	2249.938	2095.806	2019.224
67.5	2208.254	2203.407	2184.989	2030.857	1950.398
68.0	2144.275	2139.428	2119.071	1965.908	1881.572
68.5	2081.265	2076.418	2054.122	1899.021	1813.715
69.0	2018.255	2012.439	1988.204	1831.164	1745.858
69.5	1956.215	1950.398	1923.256	1764.277	1679.940
70.0	1894.174	1887.388	1858.307	1697.389	1614.022
70.5	1833.103	1824.378	1793.358	1631.471	1549.074
71.0	1772.032	1761.369	1729.379	1565.553	1485.094
71.5	1710.961	1700.297	1665.400	1501.574	1421.115
72.0	1650.859	1638.257	1601.420	1437.595	1359.075
72.5	1590.757	1577.186	1538.411	1374.585	1298.004
73.0	1531.625	1516.115	1477.339	1312.544	1236.932
73.5	1472.493	1456.013	1415.299	1251.473	1177.800
74.0	1412.391	1395.911	1354.228	1192.341	1118.668
74.5	1355.197	1336.779	1294.126	1133.209	1061.474
75.0	1296.065	1278.616	1234.994	1075.046	1005.250
75.5	1238.871	1220.453	1174.892	1017.852	949.995
76.0	1182.647	1164.229	1116.729	962.597	897.648
76.5	1126.423	1108.005	1059.535	908.312	845.302
77.0	1071.168	1052.750	1002.342	855.965	791.986
77.5	1016.883	999.434	947.087	804.588	740.608
78.0	963.567	946.118	891.832	754.180	696.017
78.5	911.220	893.771	837.547	705.711	652.395
79.0	859.843	842.394	785.200	658.211	608.772
79.5	809.435	791.986	732.853	611.681	566.120
80.0	759.996	742.547	681.476	567.089	525.405
80.5	711.527	695.047	632.038	527.344	485.661
81.0	664.997	647.548	582.599	489.538	448.824
81.5	619.436	601.017	535.099	444.947	413.926
82.0	573.875	556.426	490.508	406.171	379.998
82.5	529.283	511.834	446.885	370.304	347.039

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CANDELA TABULATION - (Cont.)

83.0	485.661	468.212	405.202	336.376	316.019
83.5	443.977	426.528	364.488	304.386	286.937
84.0	402.294	385.814	325.713	274.335	259.795
84.5	361.580	345.100	289.845	245.254	233.621
85.0	321.835	306.325	255.917	219.081	208.417
85.5	282.090	268.519	223.927	192.907	183.213
86.0	244.284	232.652	194.846	167.703	158.009
86.5	205.509	196.785	165.764	143.469	136.683
87.0	168.673	162.856	138.622	124.081	119.234
87.5	133.775	131.836	114.387	106.632	103.724
88.0	101.785	102.755	95.000	88.214	87.244
88.5	72.704	77.551	75.612	74.642	73.673
89.0	45.561	56.224	61.071	64.949	64.949
89.5	27.143	39.745	49.439	56.224	56.224
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-L240-840-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-L240-840-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-L240-840-HA-ND-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3444.8	N.A.	15.40
0-30	6993.04	N.A.	31.30
0-40	10990.52	N.A.	49.20
0-60	18307.91	N.A.	82.00
0-80	22003.88	N.A.	98.60
0-90	22316.54	N.A.	100.00
10-90	21396.42	N.A.	95.90
20-40	7545.72	N.A.	33.80
20-50	11474.55	N.A.	51.40
40-70	9749.13	N.A.	43.70
60-80	3695.97	N.A.	16.60
70-80	1264.23	N.A.	5.70
80-90	312.66	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	22316.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	920.13
10-20	2524.67
20-30	3548.23
30-40	3997.49
40-50	3928.83
50-60	3388.56
60-70	2431.74
70-80	1264.23
80-90	312.66
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-L240-840-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-L240-840-HA-ND-DIM-UNV_.IES

UGR TABLE - CORRECTED

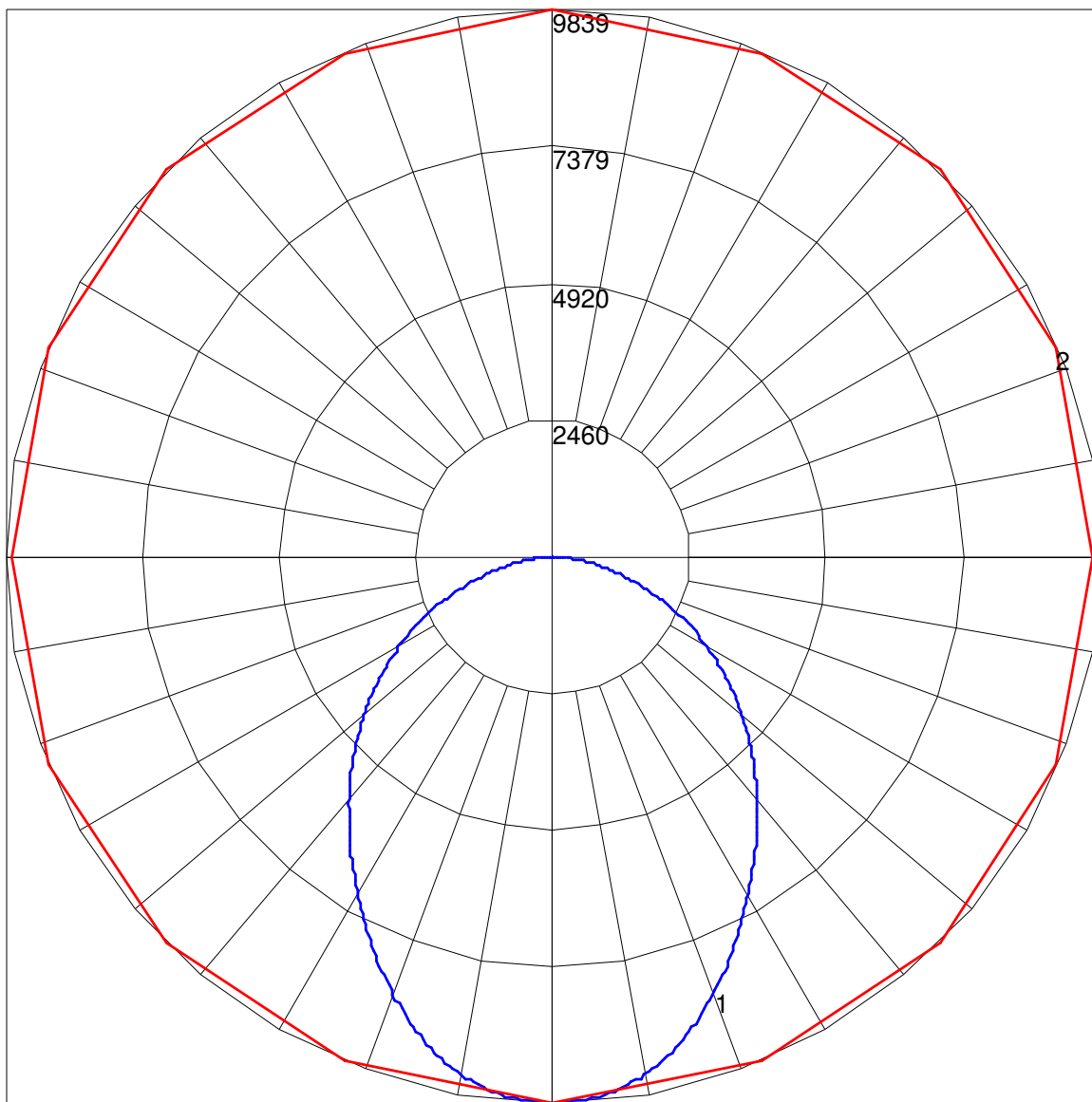
Reflectances

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	24.5	26.1	24.9	26.4	26.7	24.3	25.9	24.7	26.2	26.5
	3H	26.2	27.6	26.6	28.0	28.3	25.8	27.2	26.1	27.5	27.9
	4H	26.8	28.1	27.2	28.5	28.9	26.2	27.6	26.6	27.9	28.3
	6H	27.2	28.5	27.6	28.8	29.2	26.5	27.7	26.9	28.1	28.5
	8H	27.4	28.5	27.8	28.9	29.3	26.5	27.7	27.0	28.1	28.5
	12H	27.4	28.6	27.9	29.0	29.4	26.6	27.7	27.0	28.1	28.5
4H	2H	25.1	26.4	25.5	26.8	27.2	24.9	26.3	25.3	26.6	27.0
	3H	27.0	28.1	27.4	28.5	28.9	26.6	27.7	27.0	28.1	28.5
	4H	27.7	28.7	28.1	29.1	29.6	27.1	28.2	27.6	28.6	29.0
	6H	28.3	29.1	28.7	29.6	30.0	27.5	28.4	27.9	28.8	29.3
	8H	28.4	29.3	28.9	29.7	30.2	27.6	28.4	28.0	28.9	29.3
	12H	28.5	29.3	29.0	29.8	30.2	27.6	28.4	28.1	28.9	29.3
8H	4H	27.9	28.8	28.4	29.2	29.7	27.4	28.3	27.9	28.7	29.2
	6H	28.6	29.3	29.1	29.8	30.2	27.9	28.6	28.4	29.1	29.5
	8H	28.8	29.4	29.3	30.0	30.4	28.0	28.6	28.5	29.1	29.6
	12H	29.0	29.6	29.5	30.1	30.6	28.1	28.7	28.6	29.1	29.7
12H	4H	27.9	28.7	28.4	29.2	29.6	27.5	28.2	27.9	28.7	29.1
	6H	28.6	29.2	29.1	29.7	30.2	27.9	28.6	28.4	29.0	29.5
	8H	28.9	29.4	29.4	29.9	30.5	28.1	28.6	28.6	29.1	29.7

Maximum UGR = 30.6

POLAR GRAPH



Maximum Candela = 9839.236 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.)