



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-2-L240-850-HA-MD-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 14629546.02  
[TESTLAB] UL Verification Services Inc.  
[ISSUE DATE] 2023-03-13  
[TEST DATE] 1/5/2023  
[MANUFAC] H E Williams Inc  
[LUMCAT] GS-2-L240-850-HA-MD-DIM-UNV  
[LUMINAIRE] White aluminum housing, prismatic lense enclosure  
[LAMP] 448 White LEDs  
[BALLAST] ULT D21CC80UNVPW-C  
[OTHER] 26 C, 276.949 V, 0.623316 A, 169.009 W, 0.979045 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	22746
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	156
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.28
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	43247	42022	36746
55	32657	30627	25873
65	25373	22944	21351
75	24437	19959	21494
85	21846	14817	16464

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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	10283.369	10283.369	10283.369	10283.369	10283.369
0.5	10193.514	10273.385	10303.336	10283.369	10293.353
1.0	10193.514	10273.385	10303.336	10273.385	10293.353
1.5	10193.514	10273.385	10303.336	10273.385	10293.353
2.0	10183.530	10273.385	10293.353	10263.401	10283.369
2.5	10183.530	10263.401	10293.353	10263.401	10273.385
3.0	10173.546	10253.417	10283.369	10253.417	10263.401
3.5	10173.546	10253.417	10273.385	10243.433	10263.401
4.0	10163.562	10243.433	10263.401	10233.449	10253.417
4.5	10153.579	10233.449	10253.417	10223.466	10243.433
5.0	10153.579	10223.466	10253.417	10223.466	10233.449
5.5	10143.595	10213.482	10243.433	10213.482	10223.466
6.0	10133.611	10203.498	10233.449	10203.498	10213.482
6.5	10123.627	10203.498	10223.466	10193.514	10203.498
7.0	10113.643	10183.530	10213.482	10183.530	10193.514
7.5	10093.675	10173.546	10203.498	10173.546	10183.530
8.0	10083.692	10163.562	10193.514	10163.562	10173.546
8.5	10073.708	10153.579	10183.530	10153.579	10153.579
9.0	10053.740	10133.611	10163.562	10143.595	10143.595
9.5	10043.756	10123.627	10153.579	10123.627	10133.611
10.0	10023.789	10113.643	10143.595	10113.643	10113.643
10.5	10003.821	10093.675	10123.627	10093.675	10103.659
11.0	9993.837	10073.708	10103.659	10073.708	10083.692
11.5	9974.868	10053.740	10083.692	10053.740	10063.724
12.0	9956.897	10033.772	10063.724	10033.772	10043.756
12.5	9937.927	10013.805	10043.756	10013.805	10023.789
13.0	9916.961	9993.837	10023.789	9993.837	10003.821
13.5	9893.000	9966.881	10003.821	9968.877	9983.853
14.0	9869.039	9942.919	9972.871	9945.914	9960.890
14.5	9843.081	9917.960	9946.913	9921.953	9938.926
15.0	9816.124	9893.998	9920.955	9895.995	9915.963
15.5	9787.171	9867.042	9893.000	9870.037	9893.000
16.0	9758.218	9839.087	9863.048	9844.079	9867.042
16.5	9728.266	9810.134	9834.095	9817.123	9840.086
17.0	9697.317	9779.184	9803.145	9788.170	9811.132
17.5	9664.370	9746.237	9773.194	9759.216	9781.181
18.0	9630.425	9713.291	9743.242	9728.266	9750.231
18.5	9598.476	9679.346	9711.294	9696.318	9715.287
19.0	9564.531	9645.400	9679.346	9663.371	9682.341
19.5	9531.585	9609.459	9646.399	9629.426	9647.397
20.0	9496.641	9572.518	9608.460	9596.480	9614.451
20.5	9458.702	9532.583	9567.526	9563.533	9577.510
21.0	9419.765	9489.652	9522.599	9528.589	9541.568
21.5	9379.830	9446.722	9484.660	9490.651	9503.630
22.0	9337.898	9403.791	9444.725	9452.712	9465.691
22.5	9292.970	9357.866	9399.798	9411.778	9424.757
23.0	9247.045	9311.940	9352.874	9368.848	9380.828
23.5	9199.122	9265.016	9305.949	9323.920	9336.899
24.0	9148.205	9215.096	9256.030	9276.996	9291.972
24.5	9098.285	9164.179	9207.109	9228.075	9246.046
25.0	9046.369	9113.261	9158.188	9177.158	9198.124
25.5	8991.458	9058.350	9106.272	9124.243	9149.203
26.0	8937.545	9005.435	9054.356	9069.332	9096.289
26.5	8882.634	8948.528	8999.445	9014.421	9042.376

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**CANDELA TABULATION - (Cont.)**

27.0	8824.728	8892.618	8943.536	8956.515	8986.466
27.5	8765.823	8834.712	8885.629	8897.610	8928.560
28.0	8703.923	8774.808	8825.726	8835.710	8867.658
28.5	8642.023	8712.909	8762.828	8772.812	8803.762
29.0	8572.136	8649.012	8698.931	8706.918	8736.870
29.5	8505.244	8583.119	8633.038	8639.028	8666.983
30.0	8436.356	8515.228	8564.149	8568.143	8594.101
30.5	8364.472	8446.340	8492.265	8493.264	8516.227
31.0	8290.592	8375.454	8419.383	8411.396	8434.359
31.5	8215.713	8303.571	8342.508	8325.535	8347.500
32.0	8140.834	8231.687	8266.630	8246.663	8269.626
32.5	8061.961	8153.813	8186.760	8161.800	8183.764
33.0	7985.086	8075.939	8104.892	8068.950	8062.960
33.5	7904.217	7994.071	8019.031	7975.102	7952.139
34.0	7822.349	7909.208	7932.171	7875.263	7839.321
34.5	7741.480	7823.347	7842.317	7769.434	7722.510
35.0	7654.620	7736.488	7749.467	7660.610	7599.709
35.5	7567.761	7647.631	7652.623	7546.795	7469.919
36.0	7476.908	7554.782	7552.785	7427.987	7337.134
36.5	7384.058	7458.937	7447.954	7303.189	7199.356
37.0	7289.211	7361.095	7341.127	7176.394	7059.583
37.5	7192.368	7261.256	7231.305	7043.608	6916.813
38.0	7091.531	7160.419	7120.484	6910.823	6770.051
38.5	6988.697	7056.587	7005.670	6774.044	6623.288
39.0	6883.867	6951.757	6888.859	6634.270	6472.532
39.5	6776.041	6845.928	6769.052	6493.498	6322.774
40.0	6667.217	6738.102	6647.249	6351.727	6172.018
40.5	6555.398	6629.278	6522.451	6207.960	6019.265
41.0	6442.580	6518.458	6397.653	6065.191	5857.527
41.5	6330.761	6405.640	6270.858	5920.425	5691.795
42.0	6216.945	6291.824	6141.068	5778.654	5554.017
42.5	6103.129	6177.010	6013.275	5646.867	5416.240
43.0	5988.315	6061.197	5885.481	5504.098	5271.474
43.5	5873.501	5943.388	5757.688	5352.344	5124.712
44.0	5758.686	5825.578	5628.896	5215.565	4979.946
44.5	5644.871	5705.772	5500.105	5077.788	4840.172
45.0	5532.053	5584.967	5375.307	4943.006	4700.398
45.5	5417.239	5466.160	5248.512	4810.220	4563.619
46.0	5302.424	5347.352	5123.713	4680.430	4431.832
46.5	5190.605	5227.545	5001.910	4554.634	4304.039
47.0	5077.788	5109.736	4879.109	4430.834	4179.241
47.5	4964.970	4992.925	4759.303	4309.031	4059.435
48.0	4854.149	4876.114	4640.495	4191.222	3943.622
48.5	4743.329	4762.298	4522.685	4076.407	3830.804
49.0	4632.508	4649.480	4407.871	3962.591	3722.979
49.5	4520.689	4536.663	4295.054	3853.767	3619.147
50.0	4410.866	4425.842	4183.234	3746.940	3519.308
50.5	4303.041	4316.020	4072.414	3642.110	3421.466
51.0	4196.213	4208.194	3965.586	3542.271	3327.618
51.5	4088.388	4102.365	3858.759	3438.439	3238.762
52.0	3984.556	3997.535	3755.926	3344.591	3150.904
52.5	3879.725	3894.701	3658.084	3255.734	3067.040
53.0	3776.892	3792.866	3564.236	3167.877	2986.170
53.5	3676.055	3692.029	3461.402	3082.015	2907.298
54.0	3578.213	3593.189	3361.563	2998.151	2831.421
54.5	3482.368	3496.345	3267.715	2917.282	2757.540

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**CANDELA TABULATION - (Cont.)**

55.0	3388.520	3400.500	3177.860	2838.409	2684.658
55.5	3294.672	3305.654	3089.004	2761.534	2614.771
56.0	3205.815	3213.802	3002.145	2686.655	2546.881
56.5	3117.957	3122.949	2917.282	2614.771	2480.987
57.0	3031.098	3034.093	2834.416	2543.886	2416.092
57.5	2948.232	2947.233	2753.547	2474.997	2353.194
58.0	2868.361	2863.369	2674.674	2408.105	2292.293
58.5	2789.489	2780.503	2596.800	2343.210	2233.388
59.0	2712.613	2700.632	2520.923	2279.314	2176.480
59.5	2636.736	2621.760	2447.042	2217.414	2120.570
60.0	2564.852	2544.884	2375.159	2158.509	2067.656
60.5	2493.967	2472.002	2305.272	2099.604	2016.738
61.0	2425.078	2400.118	2236.383	2043.695	1965.821
61.5	2357.188	2330.231	2169.491	1988.784	1917.898
62.0	2292.293	2263.339	2104.596	1936.868	1871.972
62.5	2229.394	2198.444	2041.698	1885.950	1828.044
63.0	2167.495	2137.543	1979.798	1836.031	1786.111
63.5	2104.596	2079.637	1920.893	1788.108	1745.178
64.0	2032.712	2013.743	1863.985	1742.182	1706.240
64.5	1986.787	1957.834	1808.076	1698.253	1668.302
65.0	1939.863	1903.921	1754.163	1655.323	1632.360
65.5	1886.948	1851.006	1702.247	1614.389	1597.416
66.0	1838.027	1793.100	1652.328	1573.455	1563.471
66.5	1789.106	1742.182	1603.407	1534.518	1530.525
67.0	1743.181	1693.261	1555.484	1496.580	1498.576
67.5	1698.253	1645.339	1510.557	1459.639	1466.628
68.0	1655.323	1599.413	1466.628	1423.697	1435.678
68.5	1613.391	1554.486	1423.697	1388.754	1404.728
69.0	1573.455	1510.557	1381.765	1353.810	1374.777
69.5	1535.517	1467.626	1341.830	1319.865	1344.825
70.0	1497.578	1425.694	1301.894	1286.919	1315.872
70.5	1460.638	1384.760	1263.956	1252.974	1285.920
71.0	1424.696	1344.825	1225.019	1220.027	1256.967
71.5	1388.754	1304.890	1188.079	1187.080	1227.016
72.0	1354.809	1264.954	1151.138	1154.133	1197.064
72.5	1319.865	1226.017	1111.203	1120.188	1166.114
73.0	1285.920	1187.080	1075.261	1087.242	1135.164
73.5	1252.974	1148.143	1041.316	1052.298	1104.214
74.0	1220.027	1109.206	1005.374	1018.353	1072.266
74.5	1180.091	1070.269	968.434	983.410	1039.319
75.0	1144.150	1031.332	934.489	948.466	1006.372
75.5	1107.209	993.393	900.544	912.524	971.429
76.0	1069.271	954.456	859.610	877.581	937.484
76.5	1031.332	915.519	822.669	841.639	901.542
77.0	992.395	877.581	785.729	805.697	865.600
77.5	953.458	838.644	748.789	769.755	828.660
78.0	912.524	800.705	712.847	732.815	790.721
78.5	870.592	761.768	675.907	696.873	752.783
79.0	829.658	723.829	639.965	660.931	713.845
79.5	788.724	684.892	602.026	623.991	674.908
80.0	746.792	646.954	566.084	588.049	635.971
80.5	704.860	609.015	530.143	552.107	596.036
81.0	662.928	571.076	494.201	516.165	557.099
81.5	621.994	534.136	458.259	481.222	517.164
82.0	581.060	498.194	423.315	446.278	478.227
82.5	540.126	461.254	388.372	412.333	440.288

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**CANDELA TABULATION - (Cont.)**

83.0	500.191	422.317	355.425	378.388	402.349
83.5	460.256	390.369	323.477	345.441	366.407
84.0	421.319	359.419	291.529	312.495	329.467
84.5	382.382	324.475	261.577	281.545	294.524
85.0	344.443	293.525	233.622	250.595	259.580
85.5	307.503	263.574	205.667	221.642	227.632
86.0	269.564	232.624	179.709	193.687	194.685
86.5	233.622	202.672	155.748	163.735	165.732
87.0	197.680	172.721	131.787	135.780	136.779
87.5	162.737	142.769	108.824	109.822	109.822
88.0	127.793	115.813	87.858	85.861	85.861
88.5	93.848	91.851	68.889	65.893	62.898
89.0	65.893	70.885	52.914	48.921	45.926
89.5	44.927	52.914	37.939	34.943	34.943
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-L240-850-HA-MD-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-L240-850-HA-MD-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-L240-850-HA-MD-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3764.18	N.A.	16.50
0-30	7968.89	N.A.	35.00
0-40	12741.74	N.A.	56.00
0-60	19605.95	N.A.	86.20
0-80	22434.78	N.A.	98.60
0-90	22746.17	N.A.	100.00
10-90	21773.95	N.A.	95.70
20-40	8977.56	N.A.	39.50
20-50	13034.18	N.A.	57.30
40-70	8644.8	N.A.	38.00
60-80	2828.82	N.A.	12.40
70-80	1048.23	N.A.	4.60
80-90	311.39	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	22746.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	972.22
10-20	2791.96
20-30	4204.71
30-40	4772.86
40-50	4056.62
50-60	2807.59
60-70	1780.59
70-80	1048.23
80-90	311.39
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-L240-850-HA-MD-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	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	56	48	42	54	47	42	53	46	42	51	46	41	40
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GS-2-L240-850-HA-MD-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

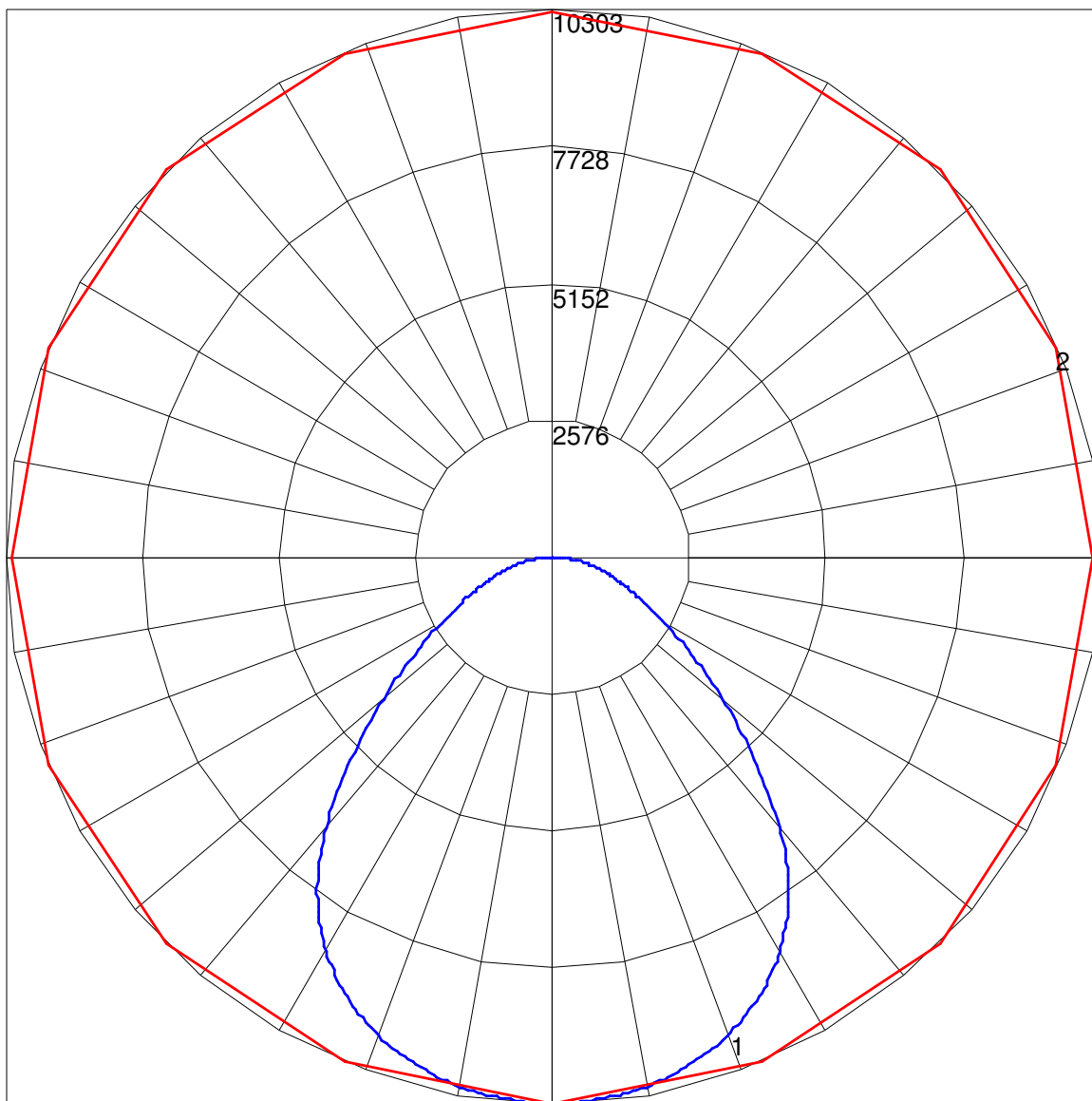
Reflectances

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	23.4	24.9	23.7	25.2	25.5	22.1	23.6	22.5	23.9	24.2
	3H	24.8	26.1	25.2	26.5	26.8	23.7	25.0	24.0	25.3	25.7
	4H	25.4	26.7	25.8	27.0	27.4	24.4	25.6	24.8	26.0	26.4
	6H	26.0	27.2	26.4	27.5	27.9	25.0	26.1	25.4	26.5	26.9
	8H	26.2	27.3	26.6	27.7	28.1	25.1	26.2	25.6	26.6	27.0
	12H	26.3	27.4	26.8	27.8	28.2	25.3	26.3	25.7	26.7	27.1
4H	2H	23.7	25.0	24.1	25.3	25.7	22.7	23.9	23.1	24.3	24.7
	3H	25.4	26.4	25.8	26.8	27.2	24.5	25.5	24.9	25.9	26.3
	4H	26.2	27.1	26.6	27.5	28.0	25.3	26.2	25.7	26.7	27.1
	6H	26.9	27.7	27.3	28.1	28.6	26.0	26.8	26.5	27.3	27.7
	8H	27.1	27.9	27.6	28.3	28.8	26.2	27.0	26.7	27.5	27.9
	12H	27.3	28.0	27.8	28.5	29.0	26.4	27.1	26.9	27.6	28.0
8H	4H	26.4	27.2	26.8	27.6	28.1	25.6	26.4	26.1	26.8	27.3
	6H	27.2	27.8	27.7	28.3	28.8	26.4	27.1	26.9	27.5	28.0
	8H	27.5	28.1	28.0	28.6	29.1	26.7	27.3	27.2	27.8	28.3
	12H	27.8	28.3	28.3	28.8	29.4	26.9	27.5	27.5	28.0	28.5
12H	4H	26.4	27.1	26.9	27.6	28.0	25.6	26.3	26.1	26.8	27.3
	6H	27.2	27.8	27.8	28.3	28.8	26.5	27.1	27.0	27.5	28.1
	8H	27.6	28.1	28.1	28.6	29.2	26.8	27.3	27.3	27.8	28.4

Maximum UGR = 29.4

POLAR GRAPH



Maximum Candela = 10303.336 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.)