



IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-2-L240-840-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-L240-840-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	24176
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
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	48235	49728	50628
55	46168	48027	34545
65	41877	29290	9495
75	34282	9424	9545
85	15030	12919	12030

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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	9164.522	9164.522	9164.522	9164.522	9164.522
0.5	9051.309	9170.279	9190.427	9176.036	9194.265
1.0	9054.187	9171.238	9191.387	9176.036	9193.305
1.5	9058.025	9170.279	9192.346	9173.157	9190.427
2.0	9057.066	9172.198	9190.427	9174.117	9191.387
2.5	9055.147	9170.279	9191.387	9172.198	9188.508
3.0	9054.187	9166.441	9189.468	9173.157	9190.427
3.5	9051.309	9160.685	9188.508	9173.157	9190.427
4.0	9044.593	9157.806	9185.630	9176.995	9192.346
4.5	9035.958	9152.050	9181.792	9178.914	9194.265
5.0	9024.445	9145.334	9178.914	9176.995	9191.387
5.5	9015.810	9139.577	9175.076	9174.117	9187.549
6.0	9009.094	9133.821	9170.279	9167.401	9179.873
6.5	8999.500	9125.186	9165.482	9160.685	9169.320
7.0	8987.027	9115.591	9155.888	9151.090	9156.847
7.5	8976.473	9106.956	9147.253	9138.618	9143.415
8.0	8966.879	9096.403	9134.780	9125.186	9130.942
8.5	8962.082	9084.889	9123.267	9111.753	9121.348
9.0	8954.406	9072.417	9110.794	9098.321	9109.835
9.5	8943.852	9062.822	9100.240	9088.727	9101.200
10.0	8932.339	9054.187	9088.727	9077.214	9089.686
10.5	8921.785	9044.593	9075.295	9062.822	9076.254
11.0	8910.272	9034.999	9059.944	9046.512	9061.863
11.5	8900.678	9024.445	9044.593	9031.161	9039.796
12.0	8882.449	9011.013	9032.120	9011.013	9011.013
12.5	8862.300	8997.581	9014.851	8984.149	8987.986
13.0	8842.152	8982.230	8996.621	8957.284	8963.041
13.5	8821.045	8961.122	8978.392	8934.258	8935.217
14.0	8798.018	8940.974	8959.203	8908.353	8909.313
14.5	8767.316	8920.826	8936.177	8882.449	8887.246
15.0	8745.249	8900.678	8914.110	8856.544	8869.976
15.5	8732.777	8878.611	8888.205	8831.598	8852.706
16.0	8714.547	8853.666	8862.300	8809.531	8831.598
16.5	8695.359	8830.639	8831.598	8787.464	8812.410
17.0	8682.886	8806.653	8804.734	8765.397	8790.343
17.5	8662.738	8783.627	8775.951	8740.452	8769.235
18.0	8639.712	8756.763	8745.249	8717.426	8744.290
18.5	8614.766	8730.858	8718.385	8689.602	8711.669
19.0	8585.024	8705.913	8684.805	8660.819	8680.967
19.5	8552.403	8680.008	8653.144	8632.995	8656.022
20.0	8521.701	8654.103	8622.442	8603.253	8629.158
20.5	8491.959	8626.279	8594.618	8574.470	8602.294
21.0	8463.175	8596.537	8565.835	8547.606	8573.511
21.5	8429.595	8566.794	8536.093	8520.742	8541.849
22.0	8396.974	8537.052	8506.350	8491.959	8510.188
22.5	8369.151	8505.391	8474.689	8462.216	8481.405
23.0	8341.327	8472.770	8439.190	8427.676	8446.865
23.5	8313.504	8436.311	8404.650	8396.974	8416.163
24.0	8278.964	8403.691	8367.232	8366.273	8382.583
24.5	8249.221	8371.070	8328.855	8331.733	8350.922
25.0	8216.601	8330.773	8287.599	8300.072	8314.463
25.5	8179.183	8297.193	8251.140	8264.572	8279.923
26.0	8136.008	8263.613	8215.641	8229.073	8241.546
26.5	8088.996	8219.479	8181.102	8191.655	8204.128

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CANDELA TABULATION - (Cont.)

27.0	8045.821	8176.304	8143.684	8155.197	8166.710
27.5	8003.606	8131.211	8109.144	8118.738	8130.252
28.0	7963.310	8086.118	8071.726	8084.199	8093.793
28.5	7928.770	8041.024	8032.389	8046.781	8054.456
29.0	7890.393	7996.890	7992.093	8002.647	8016.079
29.5	7852.015	7952.756	7951.797	7962.350	7981.539
30.0	7813.638	7903.825	7908.622	7920.135	7941.243
30.5	7775.261	7858.731	7869.285	7876.961	7904.784
31.0	7734.005	7808.841	7829.948	7836.664	7864.488
31.5	7687.952	7759.910	7788.693	7795.409	7824.192
32.0	7639.980	7715.776	7745.518	7753.194	7781.977
32.5	7590.090	7668.763	7704.262	7715.776	7737.843
33.0	7538.280	7622.710	7666.844	7674.520	7697.546
33.5	7488.390	7573.779	7623.670	7632.305	7661.088
34.0	7437.540	7521.970	7576.658	7588.171	7618.873
34.5	7389.568	7471.120	7528.686	7544.037	7574.739
35.0	7345.434	7418.351	7475.917	7500.862	7527.726
35.5	7304.178	7365.582	7415.473	7455.769	7485.511
36.0	7254.287	7308.975	7366.541	7410.675	7441.377
36.5	7202.478	7252.369	7319.529	7363.663	7394.365
37.0	7142.993	7195.762	7267.720	7317.610	7348.312
37.5	7078.711	7140.115	7214.951	7271.557	7299.381
38.0	7017.307	7085.427	7167.938	7223.586	7248.531
38.5	6954.944	7029.780	7122.845	7173.695	7192.884
39.0	6900.256	6974.132	7070.076	7119.967	7141.074
39.5	6848.447	6914.648	7011.550	7063.360	7090.224
40.0	6794.718	6852.284	6953.025	7009.632	7037.455
40.5	6739.071	6789.921	6897.378	6954.944	6987.565
41.0	6687.261	6727.558	6840.771	6895.459	6936.715
41.5	6623.939	6664.235	6780.327	6840.771	6878.189
42.0	6553.900	6601.872	6718.923	6782.245	6818.704
42.5	6478.105	6538.549	6656.560	6723.720	6760.178
43.0	6404.228	6474.267	6597.075	6665.194	6703.572
43.5	6335.149	6406.147	6535.671	6605.709	6647.925
44.0	6273.745	6341.865	6480.023	6548.143	6596.115
44.5	6222.895	6278.542	6420.539	6496.334	6540.468
45.0	6170.126	6211.382	6361.054	6442.606	6476.186
45.5	6112.560	6146.140	6296.771	6378.323	6417.660
46.0	6044.440	6078.980	6224.814	6307.325	6354.338
46.5	5974.401	6008.941	6149.018	6248.800	6293.893
47.0	5900.525	5941.780	6084.736	6188.355	6235.368
47.5	5834.324	5877.498	6020.454	6125.033	6173.004
48.0	5773.879	5815.135	5952.334	6064.588	6108.722
48.5	5714.394	5758.528	5885.174	6005.103	6031.967
49.0	5651.072	5680.814	5821.851	5943.699	5934.105
49.5	5582.952	5598.303	5759.488	5882.296	5820.892
50.0	5497.562	5529.223	5694.246	5816.095	5684.652
50.5	5419.848	5468.779	5624.208	5745.096	5518.670
51.0	5346.931	5396.821	5554.169	5658.747	5327.742
51.5	5283.608	5326.783	5481.252	5553.209	5144.490
52.0	5223.164	5250.987	5412.172	5430.402	4996.737
52.5	5154.084	5178.070	5342.134	5271.135	4856.660
53.0	5074.451	5099.397	5270.176	5088.843	4646.543
53.5	4992.899	5026.480	5201.097	4898.875	4363.510
54.0	4917.104	4960.279	5128.180	4738.649	4040.180
54.5	4853.781	4887.362	5054.303	4600.490	3772.498

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CANDELA TABULATION - (Cont.)

55.0	4790.459	4801.972	4983.305	4427.792	3584.449
55.5	4709.866	4723.298	4910.388	4182.177	3441.493
56.0	4622.557	4659.975	4839.390	3876.117	3302.375
56.5	4549.640	4592.815	4767.432	3591.165	3128.717
57.0	4488.237	4517.979	4691.637	3389.684	2953.141
57.5	4419.157	4434.508	4608.166	3245.768	2807.307
58.0	4339.524	4352.956	4518.939	3128.717	2717.120
58.5	4250.297	4275.242	4409.563	2985.761	2660.513
59.0	4178.339	4199.447	4283.877	2790.037	2613.501
59.5	4108.300	4117.895	4140.921	2627.892	2547.300
60.0	4018.113	4032.505	3972.061	2531.949	2459.032
60.5	3931.764	3959.588	3820.470	2475.342	2346.778
61.0	3854.050	3879.955	3677.514	2427.370	2207.660
61.5	3785.930	3797.443	3511.532	2357.332	2060.866
62.0	3704.378	3710.135	3331.158	2267.145	1914.073
62.5	3603.638	3621.867	3098.015	2149.134	1719.307
63.0	3515.370	3546.071	2835.130	2002.341	1426.680
63.5	3445.331	3471.236	2622.136	1860.344	1190.659
64.0	3359.941	3383.927	2477.261	1718.348	1050.581
64.5	3278.389	3307.172	2366.926	1507.272	922.113
65.0	3201.634	3228.499	2239.321	1230.955	725.908
65.5	3099.934	3139.271	2079.095	1040.027	629.006
66.0	3013.585	3056.760	1944.775	923.456	607.322
66.5	2938.749	2981.924	1864.182	751.717	597.344
67.0	2857.197	2898.453	1800.859	629.965	588.613
67.5	2771.808	2815.942	1734.658	585.927	579.978
68.0	2683.539	2741.106	1649.269	573.838	571.919
68.5	2606.785	2652.838	1528.380	564.244	564.052
69.0	2531.949	2573.204	1390.221	555.321	556.184
69.5	2448.478	2491.653	1272.211	546.974	548.125
70.0	2366.926	2415.857	1110.066	539.011	540.162
70.5	2288.252	2329.508	902.061	530.855	532.486
71.0	2219.173	2239.321	768.028	523.276	524.811
71.5	2139.540	2145.296	666.903	515.696	516.176
72.0	2059.907	2045.515	551.195	507.157	507.829
72.5	1981.233	1917.910	494.013	499.002	498.906
73.0	1907.357	1784.549	479.142	490.751	489.216
73.5	1833.480	1670.376	469.260	481.924	479.430
74.0	1759.604	1549.487	459.569	472.426	468.684
74.5	1686.687	1417.085	450.455	462.160	458.034
75.0	1605.135	1248.225	441.244	451.702	446.905
75.5	1530.299	1130.214	432.417	440.956	435.296
76.0	1455.463	1043.865	423.878	429.827	423.495
76.5	1375.830	949.457	414.668	418.410	411.310
77.0	1296.197	849.292	405.457	406.704	399.221
77.5	1215.604	784.050	395.575	394.903	386.748
78.0	1125.417	704.513	385.309	382.719	374.276
78.5	1050.581	604.924	374.276	369.958	361.419
79.0	984.380	528.073	363.146	357.485	348.851
79.5	915.685	416.874	351.729	345.013	335.994
80.0	846.318	358.349	339.928	332.156	322.850
80.5	776.854	303.565	328.127	318.916	309.897
81.0	706.336	284.952	315.846	305.772	298.192
81.5	636.777	273.343	302.990	292.820	286.967
82.0	574.126	261.254	289.557	279.675	272.000
82.5	518.191	249.069	276.125	266.627	258.760

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CANDELA TABULATION - (Cont.)

83.0	458.034	237.172	261.830	253.195	245.903
83.5	399.317	224.796	247.630	239.955	232.759
84.0	342.614	212.131	232.951	226.139	219.231
84.5	289.653	198.699	218.559	211.747	205.127
85.0	236.980	185.171	203.688	196.204	189.680
85.5	209.637	170.779	187.761	179.510	173.850
86.0	179.606	155.908	170.971	161.953	156.676
86.5	135.952	140.365	152.166	142.956	139.310
87.0	113.117	124.151	132.210	123.096	120.409
87.5	98.726	107.265	110.911	102.947	100.069
88.0	84.430	88.748	89.611	80.784	77.235
88.5	68.791	68.791	67.928	56.799	52.385
89.0	50.274	49.603	46.245	36.842	33.868
89.5	31.469	33.292	29.742	25.233	24.466
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-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-L240-840-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-L240-840-HA-HE-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3375.53	N.A.	14.00
0-30	7199.43	N.A.	29.80
0-40	11863.18	N.A.	49.10
0-60	20832.56	N.A.	86.20
0-80	23958.25	N.A.	99.10
0-90	24175.88	N.A.	100.00
10-90	23305.44	N.A.	96.40
20-40	8487.65	N.A.	35.10
20-50	13367.95	N.A.	55.30
40-70	11225.53	N.A.	46.40
60-80	3125.69	N.A.	12.90
70-80	869.55	N.A.	3.60
80-90	217.63	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	24175.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	870.44
10-20	2505.08
20-30	3823.9
30-40	4663.75
40-50	4880.31
50-60	4089.08
60-70	2256.14
70-80	869.55
80-90	217.63
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-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-2-L240-840-HA-HE-DIM-UNV_.IES

UGR TABLE - CORRECTED

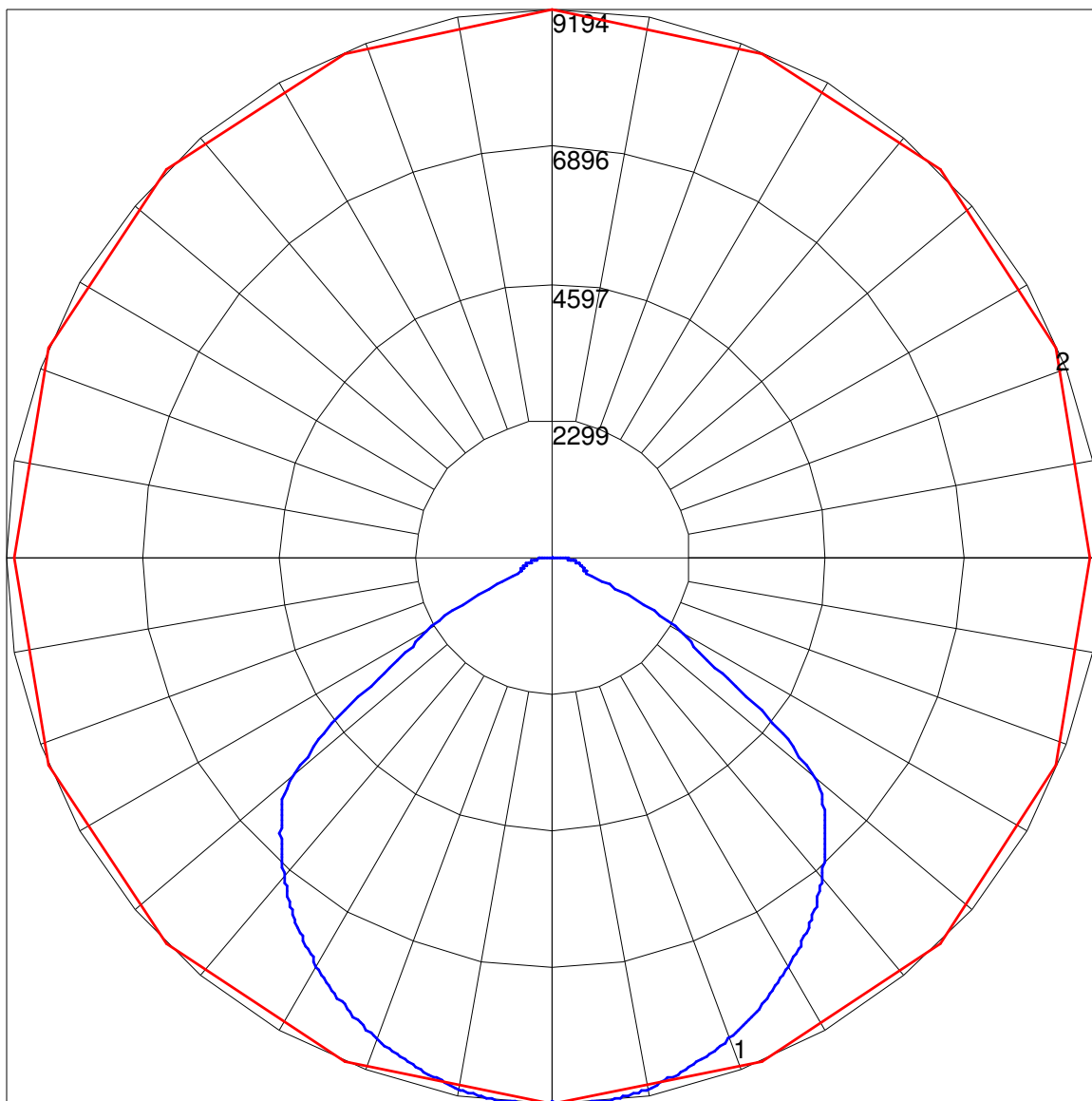
Reflectances

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	25.9	27.5	26.3	27.8	28.1	23.5	25.1	23.9	25.4	25.7
	3H	27.6	29.0	28.0	29.3	29.7	23.6	25.0	24.0	25.4	25.7
	4H	28.1	29.5	28.5	29.8	30.2	23.7	25.0	24.1	25.4	25.8
	6H	28.4	29.6	28.8	30.0	30.4	23.8	25.1	24.3	25.4	25.8
	8H	28.5	29.6	28.9	30.0	30.4	23.9	25.1	24.3	25.5	25.9
	12H	28.5	29.6	28.9	30.0	30.4	24.0	25.1	24.4	25.5	25.9
4H	2H	26.2	27.5	26.6	27.8	28.2	24.1	25.5	24.5	25.8	26.2
	3H	28.0	29.1	28.4	29.5	29.9	24.3	25.4	24.7	25.8	26.2
	4H	28.6	29.6	29.0	30.0	30.4	24.5	25.4	24.9	25.8	26.3
	6H	29.0	29.8	29.4	30.2	30.7	24.6	25.5	25.1	25.9	26.4
	8H	29.0	29.8	29.5	30.3	30.7	24.7	25.5	25.2	26.0	26.4
	12H	29.1	29.8	29.6	30.3	30.7	24.8	25.5	25.3	26.0	26.5
8H	4H	28.6	29.4	29.0	29.8	30.3	24.6	25.4	25.1	25.9	26.3
	6H	28.9	29.6	29.4	30.1	30.5	24.9	25.6	25.4	26.0	26.5
	8H	29.0	29.6	29.5	30.1	30.6	25.0	25.6	25.5	26.1	26.6
	12H	29.1	29.6	29.6	30.1	30.7	25.2	25.7	25.7	26.2	26.8
12H	4H	28.5	29.3	29.0	29.7	30.2	24.7	25.4	25.1	25.8	26.3
	6H	28.9	29.5	29.4	30.0	30.5	24.9	25.5	25.4	26.0	26.5
	8H	29.0	29.5	29.5	30.0	30.6	25.1	25.6	25.6	26.1	26.7

Maximum UGR = 30.7

POLAR GRAPH



Maximum Candela = 9194.265 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.)