



IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-2-L240-840-HA-CA-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-CA-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	23246
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
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	46380	47815	48681
55	44392	46180	33217
65	40267	28164	9130
75	32964	9062	9178
85	14452	12422	11568

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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	8812.040	8812.040	8812.040	8812.040	8812.040
0.5	8703.181	8817.575	8836.949	8823.111	8840.639
1.0	8705.949	8818.498	8837.871	8823.111	8839.716
1.5	8709.639	8817.575	8838.794	8820.343	8836.949
2.0	8708.716	8819.420	8836.949	8821.265	8837.871
2.5	8706.871	8817.575	8837.871	8819.420	8835.103
3.0	8705.949	8813.885	8836.026	8820.343	8836.949
3.5	8703.181	8808.350	8835.103	8820.343	8836.949
4.0	8696.723	8805.582	8832.336	8824.033	8838.794
4.5	8688.421	8800.047	8828.646	8825.878	8840.639
5.0	8677.350	8793.589	8825.878	8824.033	8837.871
5.5	8669.047	8788.054	8822.188	8821.265	8834.181
6.0	8662.590	8782.519	8817.575	8814.808	8826.801
6.5	8653.364	8774.216	8812.963	8808.350	8816.653
7.0	8641.371	8764.991	8803.737	8799.125	8804.660
7.5	8631.224	8756.688	8795.435	8787.132	8791.744
8.0	8621.998	8746.540	8783.442	8774.216	8779.751
8.5	8617.386	8735.470	8772.371	8761.301	8770.526
9.0	8610.005	8723.477	8760.378	8748.385	8759.456
9.5	8599.857	8714.252	8750.230	8739.160	8751.153
10.0	8588.787	8705.949	8739.160	8728.090	8740.082
10.5	8578.639	8696.723	8726.244	8714.252	8727.167
11.0	8567.569	8687.498	8711.484	8698.568	8713.329
11.5	8558.343	8677.350	8696.723	8683.808	8692.111
12.0	8540.815	8664.435	8684.730	8664.435	8664.435
12.5	8521.442	8651.519	8668.125	8638.604	8642.294
13.0	8502.069	8636.759	8650.597	8612.773	8618.308
13.5	8481.773	8616.463	8633.069	8590.632	8591.555
14.0	8459.632	8597.090	8614.618	8565.724	8566.646
14.5	8430.111	8577.717	8592.477	8540.815	8545.428
15.0	8408.893	8558.343	8571.259	8515.907	8528.822
15.5	8396.900	8537.125	8546.350	8491.921	8512.217
16.0	8379.372	8513.139	8521.442	8470.703	8491.921
16.5	8360.921	8490.998	8491.921	8449.484	8473.470
17.0	8348.928	8467.935	8466.090	8428.266	8452.252
17.5	8329.555	8445.794	8438.414	8404.280	8431.956
18.0	8307.414	8419.963	8408.893	8382.139	8407.970
18.5	8283.428	8395.055	8383.062	8355.386	8376.604
19.0	8254.830	8371.069	8350.773	8327.710	8347.083
19.5	8223.464	8346.161	8320.330	8300.957	8323.097
20.0	8193.943	8321.252	8290.809	8272.358	8297.266
20.5	8165.344	8294.499	8264.055	8244.682	8271.435
21.0	8137.668	8265.900	8236.379	8218.851	8243.759
21.5	8105.379	8237.302	8207.781	8193.020	8213.316
22.0	8074.013	8208.703	8179.182	8165.344	8182.872
22.5	8047.260	8178.260	8148.739	8136.746	8155.196
23.0	8020.506	8146.893	8114.605	8103.534	8121.985
23.5	7993.753	8111.837	8081.394	8074.013	8092.464
24.0	7960.542	8080.471	8045.415	8044.492	8060.175
24.5	7931.943	8049.105	8008.513	8011.281	8029.732
25.0	7900.577	8010.358	7968.844	7980.837	7994.675
25.5	7864.598	7978.070	7933.788	7946.704	7961.464
26.0	7823.084	7945.781	7899.654	7912.570	7924.563
26.5	7777.880	7903.345	7866.443	7876.591	7888.584

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PHOTOMETRIC FILENAME : GS-2-L240-840-HA-CA-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	7736.366	7861.831	7830.464	7841.535	7852.605
27.5	7695.775	7818.472	7797.253	7806.479	7817.549
28.0	7657.028	7775.112	7761.274	7773.267	7782.493
28.5	7623.817	7731.753	7723.451	7737.289	7744.669
29.0	7586.916	7689.317	7684.704	7694.852	7707.767
29.5	7550.014	7646.880	7645.958	7656.106	7674.556
30.0	7513.113	7599.831	7604.444	7615.514	7635.810
30.5	7476.212	7556.472	7566.620	7574.000	7600.754
31.0	7436.543	7508.500	7528.796	7535.254	7562.007
31.5	7392.261	7461.451	7489.127	7495.585	7523.261
32.0	7346.134	7419.015	7447.613	7454.993	7482.669
32.5	7298.163	7373.810	7407.944	7419.015	7440.233
33.0	7248.346	7329.529	7371.965	7379.346	7401.486
33.5	7200.374	7282.480	7330.451	7338.754	7366.430
34.0	7151.480	7232.663	7285.247	7296.318	7325.839
34.5	7105.353	7183.768	7239.120	7253.881	7283.402
35.0	7062.917	7133.029	7188.381	7212.367	7238.198
35.5	7023.248	7082.290	7130.262	7169.008	7197.606
36.0	6975.276	7027.860	7083.212	7125.649	7155.170
36.5	6925.459	6973.431	7038.008	7080.445	7109.966
37.0	6868.262	6919.001	6988.191	7036.163	7065.684
37.5	6806.452	6865.494	6937.452	6991.881	7018.635
38.0	6747.410	6812.910	6892.248	6945.755	6969.741
38.5	6687.445	6759.403	6848.889	6897.783	6916.234
39.0	6634.861	6705.896	6798.149	6846.121	6866.417
39.5	6585.044	6648.699	6741.875	6791.692	6817.523
40.0	6533.382	6588.734	6685.600	6740.030	6766.783
40.5	6479.875	6528.770	6632.093	6687.445	6718.812
41.0	6430.059	6468.805	6577.664	6630.248	6669.917
41.5	6369.171	6407.918	6519.544	6577.664	6613.643
42.0	6301.826	6347.953	6460.502	6521.389	6556.446
42.5	6228.946	6287.066	6400.538	6465.115	6500.171
43.0	6157.911	6225.256	6343.340	6408.840	6445.742
43.5	6091.489	6159.756	6284.298	6351.643	6392.235
44.0	6032.447	6097.947	6230.791	6296.291	6342.418
44.5	5983.552	6037.059	6173.594	6246.474	6288.911
45.0	5932.813	5972.482	6116.397	6194.813	6227.101
45.5	5877.461	5909.750	6054.587	6133.003	6170.827
46.0	5811.961	5845.172	5985.397	6064.735	6109.939
46.5	5744.616	5777.827	5912.517	6008.461	6051.820
47.0	5673.581	5713.250	5850.708	5950.341	5995.545
47.5	5609.926	5651.440	5788.898	5889.454	5935.581
48.0	5551.807	5591.476	5723.398	5831.334	5873.771
48.5	5494.610	5537.046	5658.821	5774.137	5799.968
49.0	5433.722	5462.321	5597.933	5715.095	5705.870
49.5	5368.223	5382.983	5537.969	5656.053	5597.011
50.0	5286.117	5316.561	5475.236	5592.398	5466.011
50.5	5211.392	5258.441	5407.891	5524.131	5306.413
51.0	5141.279	5189.251	5340.547	5441.103	5122.829
51.5	5080.392	5121.906	5270.434	5339.624	4946.625
52.0	5022.272	5049.026	5204.012	5221.540	4804.555
52.5	4955.850	4978.913	5136.667	5068.399	4669.865
53.0	4879.280	4903.266	5067.477	4893.118	4467.830
53.5	4800.864	4833.153	5001.054	4710.456	4195.682
54.0	4727.984	4769.498	4930.942	4556.393	3884.789
54.5	4667.097	4699.386	4859.907	4423.548	3627.402

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PHOTOMETRIC FILENAME : GS-2-L240-840-HA-CA-DIM-UNV_.IES

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55.0	4606.210	4617.280	4791.639	4257.492	3446.585
55.5	4528.717	4541.632	4721.527	4021.324	3309.128
56.0	4444.766	4480.745	4653.259	3727.035	3175.360
56.5	4374.654	4416.168	4584.069	3453.043	3008.382
57.0	4315.612	4344.210	4511.189	3259.311	2839.558
57.5	4249.189	4263.950	4430.928	3120.931	2699.333
58.0	4172.619	4185.535	4345.133	3008.382	2612.615
58.5	4086.823	4110.809	4239.964	2870.924	2558.185
59.0	4017.633	4037.929	4119.112	2682.727	2512.981
59.5	3950.288	3959.514	3981.655	2526.819	2449.326
60.0	3863.570	3877.408	3819.289	2434.566	2364.453
60.5	3780.542	3807.296	3673.528	2380.136	2256.517
61.0	3705.817	3730.726	3536.071	2334.010	2122.750
61.5	3640.317	3651.388	3376.473	2266.665	1981.602
62.0	3561.902	3567.437	3203.036	2179.947	1840.454
62.5	3465.036	3482.564	2978.861	2066.475	1653.180
63.0	3380.163	3409.684	2726.087	1925.327	1371.807
63.5	3312.818	3337.726	2521.284	1788.792	1144.864
64.0	3230.712	3253.776	2381.982	1652.258	1010.174
64.5	3152.297	3179.973	2275.890	1449.300	886.647
65.0	3078.494	3104.325	2153.193	1183.610	697.989
65.5	2980.706	3018.530	1999.130	1000.026	604.813
66.0	2897.678	2939.192	1869.975	887.939	583.964
66.5	2825.720	2867.234	1792.483	722.805	574.369
67.0	2747.305	2786.974	1731.595	605.736	565.974
67.5	2665.199	2707.636	1667.941	563.391	557.672
68.0	2580.326	2635.678	1585.835	551.767	549.922
68.5	2506.524	2550.805	1469.596	542.542	542.357
69.0	2434.566	2474.235	1336.751	533.962	534.793
69.5	2354.306	2395.820	1223.279	525.936	527.043
70.0	2275.890	2322.939	1067.371	518.279	519.386
70.5	2200.242	2239.911	867.366	510.438	512.006
71.0	2133.820	2153.193	738.488	503.150	504.626
71.5	2057.250	2062.785	641.253	495.862	496.323
72.0	1980.679	1966.841	529.996	487.651	488.297
72.5	1905.032	1844.144	475.013	479.810	479.717
73.0	1833.997	1715.912	460.713	471.876	470.400
73.5	1762.962	1606.131	451.211	463.389	460.990
74.0	1691.926	1489.892	441.894	454.256	450.658
74.5	1621.814	1362.582	433.129	444.384	440.417
75.0	1543.399	1200.216	424.273	434.329	429.716
75.5	1471.441	1086.744	415.786	423.996	418.553
76.0	1399.483	1003.716	407.575	413.295	407.206
76.5	1322.913	912.939	398.719	402.317	395.490
77.0	1246.343	816.627	389.863	391.062	383.866
77.5	1168.850	753.894	380.361	379.715	371.873
78.0	1082.132	677.416	370.489	367.999	359.880
78.5	1010.174	581.657	359.880	355.729	347.518
79.0	946.519	507.762	349.179	343.736	335.433
79.5	880.466	400.841	338.201	331.743	323.071
80.0	813.767	344.566	326.854	319.381	310.433
80.5	746.975	291.890	315.506	306.650	297.978
81.0	679.169	273.992	303.698	294.011	286.723
81.5	612.285	262.830	291.336	281.557	275.930
82.0	552.044	251.206	278.421	268.919	261.538
82.5	498.260	239.490	265.505	256.372	248.807

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CANDELA TABULATION - (Cont.)

83.0	440.417	228.050	251.759	243.457	236.445
83.5	383.958	216.150	238.106	230.726	223.807
84.0	329.437	203.972	223.991	217.441	210.799
84.5	278.513	191.057	210.153	203.603	197.238
85.0	227.866	178.049	195.854	188.658	182.385
85.5	201.574	164.211	180.540	172.606	167.163
86.0	172.698	149.912	164.395	155.724	150.650
86.5	130.723	134.967	146.314	137.457	133.952
87.0	108.767	119.376	127.125	118.361	115.778
87.5	94.929	103.139	106.645	98.988	96.220
88.0	81.183	85.334	86.165	77.677	74.264
88.5	66.146	66.146	65.315	54.614	50.370
89.0	48.341	47.695	44.466	35.425	32.565
89.5	30.259	32.012	28.599	24.263	23.525
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-CA-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-CA-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-CA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3245.7	N.A.	14.00
0-30	6922.52	N.A.	29.80
0-40	11406.9	N.A.	49.10
0-60	20031.31	N.A.	86.20
0-80	23036.78	N.A.	99.10
0-90	23246.04	N.A.	100.00
10-90	22409.07	N.A.	96.40
20-40	8161.2	N.A.	35.10
20-50	12853.8	N.A.	55.30
40-70	10793.78	N.A.	46.40
60-80	3005.47	N.A.	12.90
70-80	836.10	N.A.	3.60
80-90	209.26	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	23246.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	836.97
10-20	2408.73
20-30	3676.82
30-40	4484.37
40-50	4692.6
50-60	3931.81
60-70	2169.37
70-80	836.10
80-90	209.26
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-CA-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-CA-DIM-UNV_.IES

UGR TABLE - CORRECTED

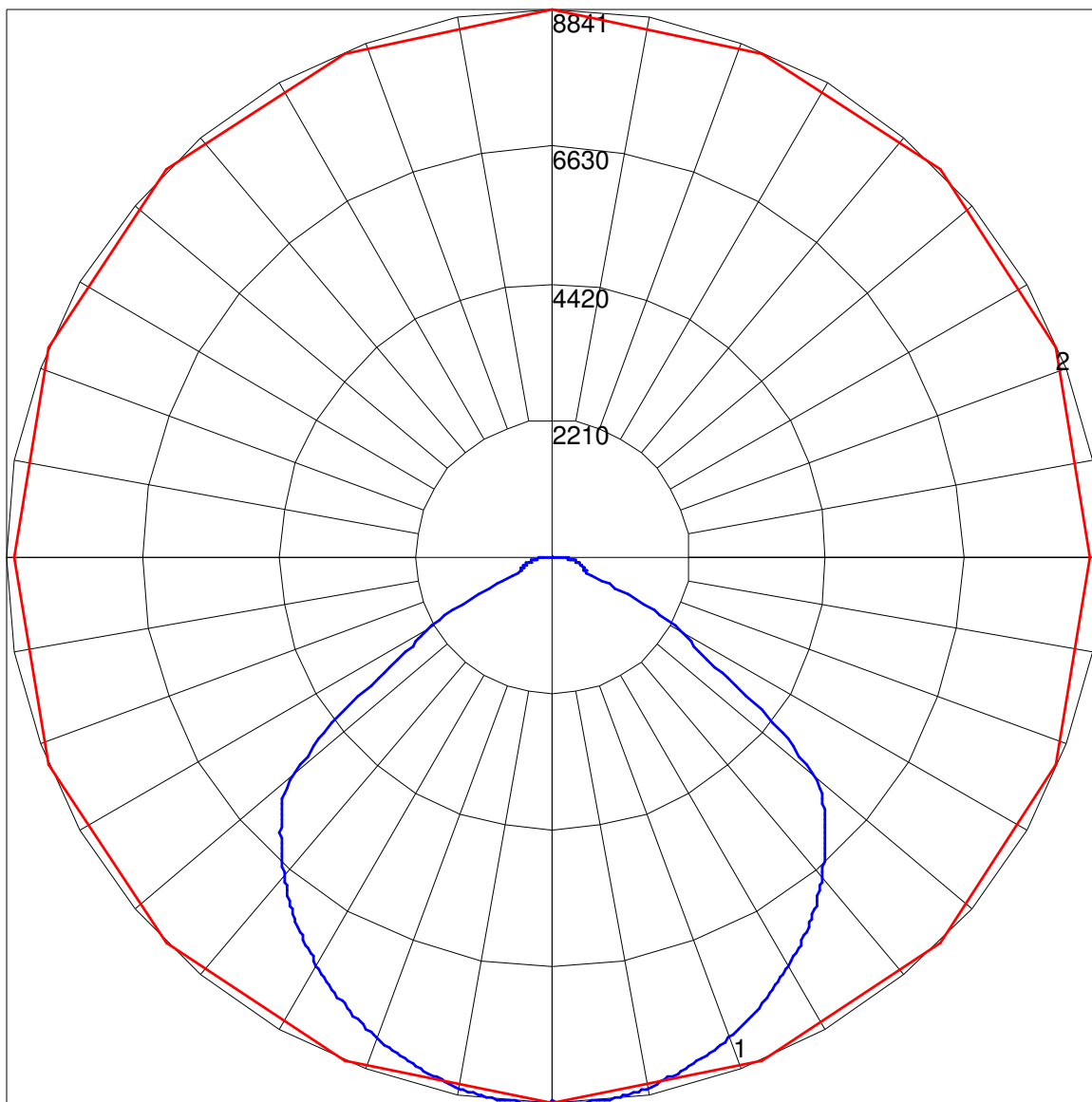
Reflectances

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	25.7	27.3	26.1	27.6	27.9	23.3	24.9	23.7	25.2	25.5
	3H	27.4	28.8	27.8	29.1	29.5	23.4	24.8	23.8	25.2	25.5
	4H	27.9	29.3	28.3	29.6	30.0	23.5	24.8	23.9	25.2	25.6
	6H	28.2	29.4	28.6	29.8	30.2	23.6	24.9	24.1	25.2	25.6
	8H	28.3	29.4	28.7	29.8	30.2	23.7	24.9	24.1	25.3	25.7
	12H	28.3	29.4	28.7	29.8	30.2	23.8	24.9	24.2	25.3	25.7
4H	2H	26.0	27.3	26.4	27.6	28.0	23.9	25.3	24.3	25.6	26.0
	3H	27.8	28.9	28.2	29.3	29.7	24.1	25.2	24.5	25.6	26.0
	4H	28.4	29.4	28.8	29.8	30.2	24.3	25.2	24.7	25.6	26.1
	6H	28.8	29.6	29.2	30.0	30.5	24.4	25.3	24.9	25.7	26.2
	8H	28.8	29.6	29.3	30.1	30.5	24.5	25.3	25.0	25.8	26.2
	12H	28.9	29.6	29.4	30.1	30.5	24.6	25.3	25.1	25.8	26.3
8H	4H	28.4	29.2	28.8	29.6	30.1	24.4	25.2	24.9	25.7	26.1
	6H	28.7	29.4	29.2	29.9	30.3	24.7	25.4	25.2	25.8	26.3
	8H	28.8	29.4	29.3	29.9	30.4	24.8	25.4	25.3	25.9	26.4
	12H	28.9	29.4	29.4	29.9	30.5	25.0	25.5	25.5	26.0	26.6
12H	4H	28.3	29.1	28.8	29.5	30.0	24.5	25.2	24.9	25.6	26.1
	6H	28.7	29.3	29.2	29.8	30.3	24.7	25.3	25.2	25.8	26.3
	8H	28.8	29.3	29.3	29.8	30.4	24.9	25.4	25.4	25.9	26.5

Maximum UGR = 30.5

POLAR GRAPH



Maximum Candela = 8840.639 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.)