



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-2-L240-840-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-L240-840-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	22084
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
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	41988	40798	35675
55	31706	29735	25120
65	24634	22276	20729
75	23725	19377	20868
85	21210	14386	15984

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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	9983.853	9983.853	9983.853	9983.853	9983.853
0.5	9896.615	9974.160	10003.239	9983.853	9993.546
1.0	9896.615	9974.160	10003.239	9974.160	9993.546
1.5	9896.615	9974.160	10003.239	9974.160	9993.546
2.0	9886.922	9974.160	9993.546	9964.467	9983.853
2.5	9886.922	9964.467	9993.546	9964.467	9974.160
3.0	9877.229	9954.774	9983.853	9954.774	9964.467
3.5	9877.229	9954.774	9974.160	9945.081	9964.467
4.0	9867.536	9945.081	9964.467	9935.388	9954.774
4.5	9857.843	9935.388	9954.774	9925.695	9945.081
5.0	9857.843	9925.695	9954.774	9925.695	9935.388
5.5	9848.150	9916.002	9945.081	9916.002	9925.695
6.0	9838.457	9906.308	9935.388	9906.308	9916.002
6.5	9828.764	9906.308	9925.695	9896.615	9906.308
7.0	9819.071	9886.922	9916.002	9886.922	9896.615
7.5	9799.685	9877.229	9906.308	9877.229	9886.922
8.0	9789.992	9867.536	9896.615	9867.536	9877.229
8.5	9780.299	9857.843	9886.922	9857.843	9857.843
9.0	9760.913	9838.457	9867.536	9848.150	9848.150
9.5	9751.219	9828.764	9857.843	9828.764	9838.457
10.0	9731.833	9819.071	9848.150	9819.071	9819.071
10.5	9712.447	9799.685	9828.764	9799.685	9809.378
11.0	9702.754	9780.299	9809.378	9780.299	9789.992
11.5	9684.337	9760.913	9789.992	9760.913	9770.606
12.0	9666.890	9741.526	9770.606	9741.526	9751.219
12.5	9648.473	9722.140	9751.219	9722.140	9731.833
13.0	9628.118	9702.754	9731.833	9702.754	9712.447
13.5	9604.854	9676.583	9712.447	9678.522	9693.061
14.0	9581.591	9653.320	9682.399	9656.227	9670.767
14.5	9556.389	9629.087	9657.197	9632.964	9649.442
15.0	9530.218	9605.824	9631.995	9607.762	9627.148
15.5	9502.108	9579.652	9604.854	9582.560	9604.854
16.0	9473.998	9552.512	9575.775	9557.358	9579.652
16.5	9444.919	9524.402	9547.665	9531.187	9553.481
17.0	9414.870	9494.353	9517.617	9503.077	9525.371
17.5	9382.883	9462.366	9488.538	9474.967	9496.292
18.0	9349.927	9430.379	9459.458	9444.919	9466.243
18.5	9318.909	9397.423	9428.441	9413.901	9432.318
19.0	9285.953	9364.466	9397.423	9381.914	9400.331
19.5	9253.965	9329.571	9365.436	9348.957	9366.405
20.0	9220.040	9293.707	9328.602	9316.970	9334.418
20.5	9183.206	9254.935	9288.860	9284.983	9298.554
21.0	9145.403	9213.255	9245.242	9251.058	9263.659
21.5	9106.631	9171.574	9208.408	9214.224	9226.825
22.0	9065.920	9129.894	9169.636	9177.390	9189.991
22.5	9022.301	9085.306	9126.017	9137.649	9150.250
23.0	8977.713	9040.718	9080.460	9095.969	9107.600
23.5	8931.187	8995.161	9034.902	9052.350	9064.951
24.0	8881.752	8946.695	8986.437	9006.792	9021.332
24.5	8833.287	8897.261	8938.941	8959.296	8976.744
25.0	8782.883	8847.826	8891.445	8909.862	8930.217
25.5	8729.571	8794.514	8841.041	8858.489	8882.721
26.0	8677.228	8743.141	8790.637	8805.177	8831.348
26.5	8623.916	8687.891	8737.325	8751.865	8779.005

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CANDELA TABULATION - (Cont.)

27.0	8567.697	8633.610	8683.044	8695.645	8724.724
27.5	8510.508	8577.390	8626.824	8638.456	8668.505
28.0	8450.411	8519.231	8568.666	8578.359	8609.377
28.5	8390.314	8459.134	8507.600	8517.293	8547.341
29.0	8322.462	8397.099	8445.564	8453.319	8482.398
29.5	8257.519	8333.125	8381.590	8387.406	8414.546
30.0	8190.637	8267.212	8314.708	8318.585	8343.787
30.5	8120.847	8200.330	8244.918	8245.887	8268.181
31.0	8049.118	8131.509	8174.158	8166.404	8188.698
31.5	7976.420	8061.719	8099.522	8083.044	8104.368
32.0	7903.722	7991.929	8025.855	8006.468	8028.763
32.5	7827.147	7916.323	7948.310	7924.077	7945.402
33.0	7752.510	7840.717	7868.827	7833.932	7828.116
33.5	7673.996	7761.234	7785.467	7742.817	7720.523
34.0	7594.513	7678.843	7701.137	7645.887	7610.992
34.5	7516.000	7595.483	7613.900	7543.140	7497.583
35.0	7431.670	7511.153	7523.754	7437.486	7378.358
35.5	7347.340	7424.885	7429.731	7326.985	7252.348
36.0	7259.133	7334.739	7332.801	7211.637	7123.431
36.5	7168.988	7241.686	7231.024	7090.474	6989.666
37.0	7076.904	7146.694	7127.308	6967.372	6853.964
37.5	6982.881	7049.763	7020.684	6838.455	6715.353
38.0	6884.981	6951.863	6913.091	6709.537	6572.865
38.5	6785.143	6851.056	6801.621	6576.742	6430.377
39.0	6683.366	6749.278	6688.212	6441.039	6284.012
39.5	6578.681	6646.532	6571.895	6304.367	6138.616
40.0	6473.026	6541.847	6453.640	6166.725	5992.250
40.5	6364.464	6436.193	6332.477	6027.145	5843.947
41.0	6254.932	6328.600	6211.314	5888.535	5686.919
41.5	6146.370	6219.068	6088.212	5747.985	5526.014
42.0	6035.869	6108.567	5962.202	5610.344	5392.250
42.5	5925.368	5997.097	5838.131	5482.395	5258.486
43.0	5813.898	5884.657	5714.060	5343.785	5117.936
43.5	5702.428	5770.279	5589.988	5196.450	4975.448
44.0	5590.958	5655.901	5464.948	5063.655	4834.899
44.5	5480.457	5539.584	5339.907	4929.891	4699.196
45.0	5370.925	5422.298	5218.744	4799.035	4563.493
45.5	5259.455	5306.951	5095.642	4670.117	4430.698
46.0	5147.985	5191.604	4974.479	4544.107	4302.750
46.5	5039.422	5075.287	4856.224	4421.974	4178.679
47.0	4929.891	4960.909	4736.999	4301.781	4057.515
47.5	4820.359	4847.500	4620.682	4183.525	3941.199
48.0	4712.766	4734.091	4505.335	4069.147	3828.759
48.5	4605.173	4623.590	4390.957	3957.677	3719.228
49.0	4497.580	4514.059	4279.486	3847.176	3614.542
49.5	4389.018	4404.527	4169.955	3741.522	3513.735
50.0	4282.394	4296.934	4061.393	3637.806	3416.804
50.5	4177.709	4190.310	3953.800	3536.029	3321.812
51.0	4073.994	4085.625	3850.084	3439.098	3230.697
51.5	3969.309	3982.879	3746.368	3338.290	3144.429
52.0	3868.501	3881.102	3646.530	3247.175	3059.130
52.5	3766.724	3781.263	3551.538	3160.907	2977.708
53.0	3666.885	3682.394	3460.423	3075.608	2899.195
53.5	3568.985	3584.494	3360.584	2992.248	2822.619
54.0	3473.993	3488.533	3263.654	2910.826	2748.952
54.5	3380.940	3394.510	3172.539	2832.312	2677.223

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55.0	3289.825	3301.457	3085.301	2755.737	2606.464
55.5	3198.710	3209.373	2999.033	2681.101	2538.613
56.0	3112.442	3120.196	2914.703	2608.403	2472.700
56.5	3027.143	3031.990	2832.312	2538.613	2408.726
57.0	2942.813	2945.721	2751.860	2469.792	2345.721
57.5	2862.361	2861.392	2673.346	2402.910	2284.655
58.0	2784.816	2779.970	2596.771	2337.966	2225.527
58.5	2708.241	2699.518	2521.165	2274.961	2168.338
59.0	2633.605	2621.973	2447.498	2212.926	2113.087
59.5	2559.937	2545.398	2375.769	2152.829	2058.806
60.0	2490.147	2470.761	2305.979	2095.640	2007.433
60.5	2421.327	2400.002	2238.128	2038.451	1957.998
61.0	2354.445	2330.212	2171.246	1984.170	1908.564
61.5	2288.532	2262.360	2106.302	1930.858	1862.037
62.0	2225.527	2197.417	2043.297	1880.454	1817.449
62.5	2164.461	2134.412	1982.231	1831.019	1774.799
63.0	2104.364	2075.284	1922.134	1782.554	1734.089
63.5	2043.297	2019.065	1864.945	1736.027	1694.347
64.0	1973.507	1955.090	1809.695	1691.439	1656.544
64.5	1928.919	1900.809	1755.413	1648.790	1619.711
65.0	1883.362	1848.467	1703.071	1607.110	1584.815
65.5	1831.989	1797.094	1652.667	1567.368	1550.890
66.0	1784.493	1740.874	1604.202	1527.626	1517.933
66.5	1736.997	1691.439	1556.706	1489.823	1485.946
67.0	1692.408	1643.943	1510.179	1452.990	1454.928
67.5	1648.790	1597.416	1466.560	1417.126	1423.911
68.0	1607.110	1552.828	1423.911	1382.231	1393.862
68.5	1566.399	1509.210	1382.231	1348.305	1363.814
69.0	1527.626	1466.560	1341.520	1314.379	1334.735
69.5	1490.793	1424.880	1302.747	1281.423	1305.655
70.0	1453.959	1384.169	1263.975	1249.436	1277.545
70.5	1418.095	1344.428	1227.142	1216.479	1248.466
71.0	1383.200	1305.655	1189.339	1184.492	1220.356
71.5	1348.305	1266.883	1153.474	1152.505	1191.277
72.0	1315.348	1228.111	1117.610	1120.518	1162.198
72.5	1281.423	1190.308	1078.838	1087.561	1132.150
73.0	1248.466	1152.505	1043.943	1055.574	1102.101
73.5	1216.479	1114.702	1010.986	1021.649	1072.053
74.0	1184.492	1076.899	976.091	988.692	1041.035
74.5	1145.720	1039.096	940.227	954.767	1009.048
75.0	1110.825	1001.293	907.271	920.841	977.061
75.5	1074.960	964.460	874.314	885.946	943.135
76.0	1038.127	926.657	834.573	852.020	910.178
76.5	1001.293	888.854	798.708	817.125	875.283
77.0	963.490	852.020	762.844	782.230	840.388
77.5	925.687	814.217	726.980	747.335	804.524
78.0	885.946	777.384	692.085	711.471	767.690
78.5	845.235	739.581	656.220	676.576	730.857
79.0	805.493	702.747	621.325	641.681	693.054
79.5	765.752	664.944	584.492	605.816	655.251
80.0	725.041	628.110	549.597	570.921	617.448
80.5	684.330	591.277	514.702	536.026	578.676
81.0	643.619	554.443	479.807	501.131	540.873
81.5	603.878	518.579	444.912	467.206	502.101
82.0	564.136	483.684	410.986	433.280	464.298
82.5	524.395	447.819	377.060	400.323	427.464

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CANDELA TABULATION - (Cont.)

83.0	485.622	410.016	345.073	367.367	390.630
83.5	446.850	378.999	314.055	335.380	355.735
84.0	409.047	348.950	283.037	303.393	319.871
84.5	371.244	315.024	253.958	273.344	285.945
85.0	334.411	284.976	226.818	243.296	252.020
85.5	298.546	255.897	199.677	215.186	221.002
86.0	261.713	225.848	174.475	188.045	189.015
86.5	226.818	196.769	151.212	158.966	160.905
87.0	191.923	167.690	127.948	131.826	132.795
87.5	157.997	138.611	105.654	106.624	106.624
88.0	124.071	112.440	85.299	83.360	83.360
88.5	91.115	89.176	66.882	63.974	61.066
89.0	63.974	68.821	51.373	47.496	44.588
89.5	43.619	51.373	36.834	33.926	33.926
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-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-L240-840-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-L240-840-HA-MD-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3654.55	N.A.	16.50
0-30	7736.78	N.A.	35.00
0-40	12370.63	N.A.	56.00
0-60	19034.91	N.A.	86.20
0-80	21781.34	N.A.	98.60
0-90	22083.66	N.A.	100.00
10-90	21139.76	N.A.	95.70
20-40	8716.08	N.A.	39.50
20-50	12654.55	N.A.	57.30
40-70	8393.01	N.A.	38.00
60-80	2746.43	N.A.	12.40
70-80	1017.7	N.A.	4.60
80-90	302.32	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	22083.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	943.90
10-20	2710.65
20-30	4082.24
30-40	4633.84
40-50	3938.47
50-60	2725.81
60-70	1728.73
70-80	1017.7
80-90	302.32
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-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-L240-840-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

X=2H	Y=2H	23.3	24.8	23.6	25.1	25.4	22.0	23.5	22.4	23.8	24.1
	3H	24.7	26.0	25.1	26.4	26.7	23.6	24.9	23.9	25.2	25.6
	4H	25.3	26.6	25.7	26.9	27.3	24.3	25.5	24.7	25.9	26.3
	6H	25.9	27.1	26.3	27.4	27.8	24.9	26.0	25.3	26.4	26.8
	8H	26.1	27.2	26.5	27.6	28.0	25.0	26.1	25.5	26.5	26.9
	12H	26.2	27.3	26.7	27.7	28.1	25.2	26.2	25.6	26.6	27.0

UGR Viewed Endwise

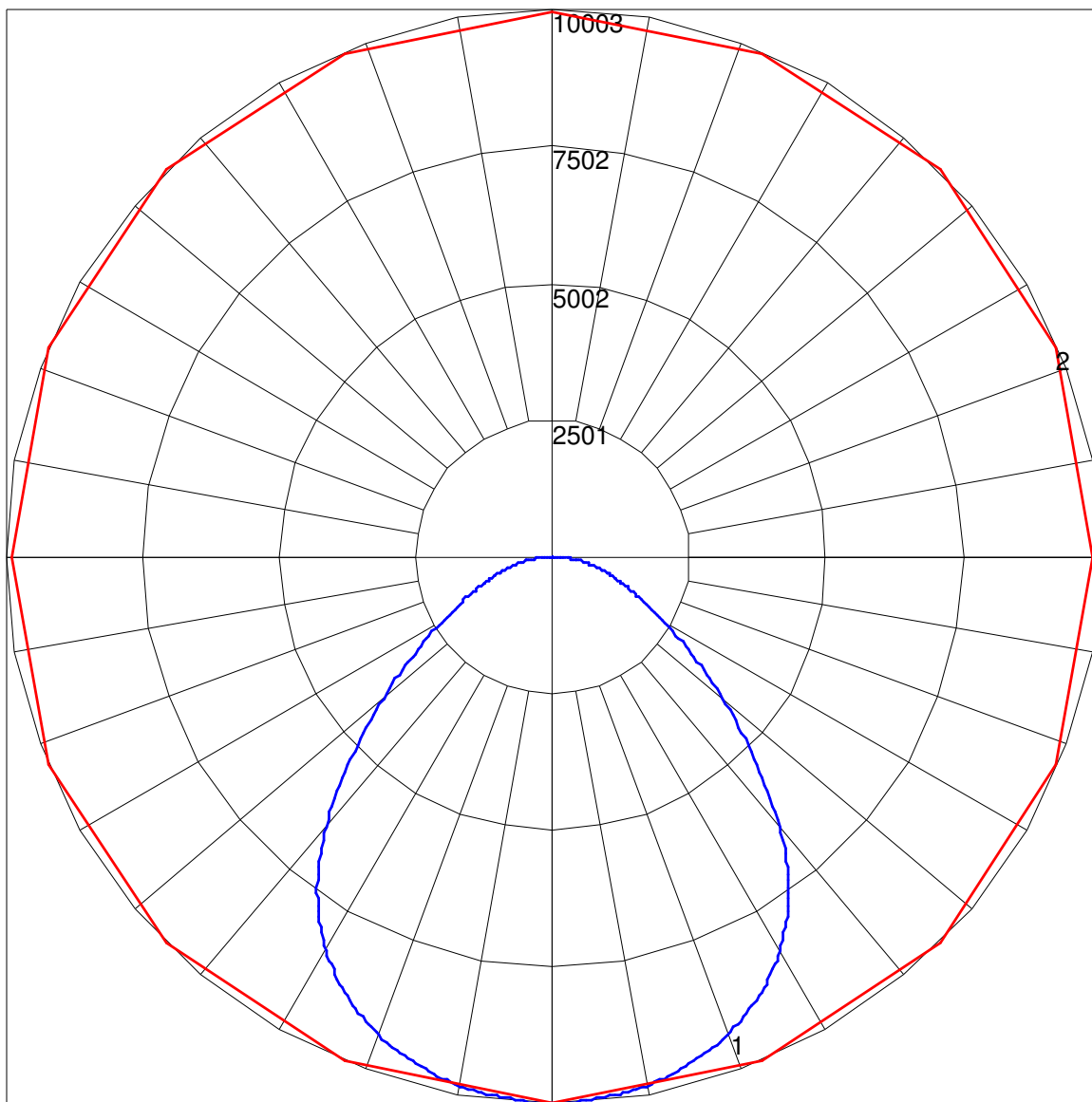
4H	2H	23.6	24.9	24.0	25.2	25.6	22.6	23.8	23.0	24.2	24.6
	3H	25.3	26.3	25.7	26.7	27.1	24.4	25.4	24.8	25.8	26.2
	4H	26.1	27.0	26.5	27.4	27.9	25.2	26.1	25.6	26.6	27.0
	6H	26.8	27.6	27.2	28.0	28.5	25.9	26.7	26.4	27.2	27.6
	8H	27.0	27.8	27.5	28.2	28.7	26.1	26.9	26.6	27.4	27.8
	12H	27.2	27.9	27.7	28.4	28.9	26.3	27.0	26.8	27.5	27.9

8H	4H	26.3	27.1	26.7	27.5	28.0	25.5	26.3	26.0	26.7	27.2
	6H	27.1	27.7	27.6	28.2	28.7	26.3	27.0	26.8	27.4	27.9
	8H	27.4	28.0	27.9	28.5	29.0	26.6	27.2	27.1	27.7	28.2
	12H	27.7	28.2	28.2	28.7	29.3	26.8	27.4	27.4	27.9	28.4

12H	4H	26.3	27.0	26.8	27.5	27.9	25.5	26.2	26.0	26.7	27.2
	6H	27.1	27.7	27.7	28.2	28.7	26.4	27.0	26.9	27.4	28.0
	8H	27.5	28.0	28.0	28.5	29.1	26.7	27.2	27.2	27.7	28.3

Maximum UGR = 29.3

POLAR GRAPH



Maximum Candela = 10003.239 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.)