



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L240-835-HA-CA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14617179.01
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 2023-03-14
[TESTDATE] 1/6/2023
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] GS-4-L240-835-HA-CA-DIM-UNV
[LUMINAIRE] White aluminum housing, prismatic lense enclosure
[LAMP] 448 White LEDs
[BALLAST] 0-10V LED DRIVER

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	23687
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	169
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)	3.36 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	23448	24173	24611
55	22443	23346	16793
65	20357	14238	4616
75	16665	4581	4640
85	7306	6280	5848

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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	8979.365	8979.365	8979.365	8979.365	8979.365
0.5	8868.439	8985.005	9004.746	8990.646	9008.507
1.0	8871.259	8985.945	9005.686	8990.646	9007.567
1.5	8875.019	8985.005	9006.627	8987.826	9004.746
2.0	8874.079	8986.885	9004.746	8988.766	9005.686
2.5	8872.199	8985.005	9005.686	8986.885	9002.866
3.0	8871.259	8981.245	9003.806	8987.826	9004.746
3.5	8868.439	8975.605	9002.866	8987.826	9004.746
4.0	8861.859	8972.785	9000.046	8991.586	9006.627
4.5	8853.398	8967.144	8996.286	8993.466	9008.507
5.0	8842.118	8960.564	8993.466	8991.586	9005.686
5.5	8833.657	8954.924	8989.706	8988.766	9001.926
6.0	8827.077	8949.283	8985.005	8982.185	8994.406
6.5	8817.676	8940.823	8980.305	8975.605	8984.065
7.0	8805.456	8931.422	8970.905	8966.204	8971.845
7.5	8795.115	8922.962	8962.444	8953.984	8958.684
8.0	8785.715	8912.621	8950.223	8940.823	8946.463
8.5	8781.014	8901.341	8938.943	8927.662	8937.063
9.0	8773.494	8889.120	8926.722	8914.502	8925.782
9.5	8763.153	8879.720	8916.382	8905.101	8917.322
10.0	8751.873	8871.259	8905.101	8893.820	8906.041
10.5	8741.532	8861.859	8891.940	8879.720	8892.880
11.0	8730.252	8852.458	8876.900	8863.739	8878.780
11.5	8720.851	8842.118	8861.859	8848.698	8857.158
12.0	8702.990	8828.957	8849.638	8828.957	8828.957
12.5	8683.249	8815.796	8832.717	8802.636	8806.396
13.0	8663.508	8800.755	8814.856	8776.314	8781.954
13.5	8642.827	8780.074	8796.995	8753.753	8754.693
14.0	8620.266	8760.333	8778.194	8728.371	8729.312
14.5	8590.184	8740.592	8755.633	8702.990	8707.690
15.0	8568.563	8720.851	8734.012	8677.609	8690.769
15.5	8556.342	8699.230	8708.630	8653.167	8673.849
16.0	8538.481	8674.789	8683.249	8631.546	8653.167
16.5	8519.680	8652.227	8653.167	8609.925	8634.366
17.0	8507.460	8628.726	8626.846	8588.304	8612.745
17.5	8487.718	8606.165	8598.644	8563.863	8592.064
18.0	8465.157	8579.843	8568.563	8541.301	8567.623
18.5	8440.716	8554.462	8542.241	8514.040	8535.661
19.0	8411.574	8530.021	8509.340	8485.838	8505.579
19.5	8379.613	8504.639	8478.318	8458.577	8481.138
20.0	8349.531	8479.258	8448.236	8429.435	8454.817
20.5	8320.389	8451.997	8420.975	8401.234	8428.495
21.0	8292.188	8422.855	8392.773	8374.912	8400.294
21.5	8259.286	8393.713	8363.632	8348.591	8369.272
22.0	8227.324	8364.572	8334.490	8320.389	8338.250
22.5	8200.063	8333.550	8303.469	8291.248	8310.049
23.0	8172.801	8301.588	8268.687	8257.406	8276.207
23.5	8145.540	8265.867	8234.845	8227.324	8246.125
24.0	8111.698	8233.905	8198.183	8197.243	8213.224
24.5	8082.557	8201.943	8160.581	8163.401	8182.202
25.0	8050.595	8162.461	8120.159	8132.379	8146.480
25.5	8013.933	8129.559	8084.437	8097.597	8112.638
26.0	7971.631	8096.657	8049.655	8062.816	8075.036
26.5	7925.568	8053.415	8015.813	8026.154	8038.374

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CANDELA TABULATION - (Cont.)

27.0	7883.266	8011.113	7979.151	7990.432	8001.712
27.5	7841.904	7966.930	7945.309	7954.710	7965.990
28.0	7802.421	7922.748	7908.647	7920.868	7930.268
28.5	7768.580	7878.566	7870.105	7884.206	7891.726
29.0	7730.978	7835.323	7830.623	7840.964	7854.124
29.5	7693.376	7792.081	7791.141	7801.481	7820.282
30.0	7655.774	7744.138	7748.839	7760.119	7780.800
30.5	7618.172	7699.956	7710.297	7717.817	7745.078
31.0	7577.749	7651.073	7671.754	7678.335	7705.596
31.5	7532.627	7603.131	7631.332	7637.913	7666.114
32.0	7485.624	7559.888	7589.030	7596.550	7624.752
32.5	7436.742	7513.826	7548.608	7559.888	7581.510
33.0	7385.979	7468.703	7511.946	7519.466	7542.027
33.5	7337.096	7420.761	7469.644	7478.104	7506.305
34.0	7287.274	7369.998	7423.581	7434.862	7464.943
34.5	7240.271	7320.175	7376.578	7391.619	7421.701
35.0	7197.029	7268.473	7324.876	7349.317	7375.638
35.5	7156.607	7216.770	7265.652	7305.135	7334.276
36.0	7107.724	7161.307	7217.710	7260.952	7291.034
36.5	7056.961	7105.844	7171.647	7214.890	7244.971
37.0	6998.678	7050.381	7120.885	7169.767	7199.849
37.5	6935.695	6995.858	7069.182	7124.645	7151.906
38.0	6875.531	6942.275	7023.119	7077.642	7102.084
38.5	6814.428	6887.752	6978.937	7028.760	7047.561
39.0	6760.845	6833.229	6927.234	6976.117	6996.798
39.5	6710.082	6774.946	6869.891	6920.654	6946.975
40.0	6657.440	6713.843	6812.548	6868.011	6895.272
40.5	6602.917	6652.739	6758.025	6814.428	6846.390
41.0	6552.154	6591.636	6702.562	6756.145	6796.567
41.5	6490.111	6529.593	6643.339	6702.562	6739.224
42.0	6421.487	6468.489	6583.176	6645.219	6680.941
42.5	6347.223	6406.446	6522.072	6587.876	6623.598
43.0	6274.839	6343.463	6463.789	6530.533	6568.135
43.5	6207.155	6276.719	6403.626	6472.250	6513.612
44.0	6146.992	6213.736	6349.103	6415.847	6462.849
44.5	6097.169	6151.692	6290.820	6365.084	6408.326
45.0	6045.467	6085.889	6232.537	6312.441	6345.343
45.5	5989.064	6021.965	6169.553	6249.458	6288.000
46.0	5922.320	5956.162	6099.049	6179.894	6225.956
46.5	5853.696	5887.538	6024.785	6122.551	6166.733
47.0	5781.312	5821.734	5961.802	6063.328	6109.390
47.5	5716.449	5758.751	5898.819	6001.284	6048.287
48.0	5657.226	5697.648	5832.075	5942.061	5985.303
48.5	5598.942	5642.185	5766.271	5883.778	5910.099
49.0	5536.899	5566.041	5704.228	5823.615	5814.214
49.5	5470.155	5485.196	5643.125	5763.451	5703.288
50.0	5386.491	5417.513	5579.201	5698.588	5569.801
50.5	5310.347	5358.289	5510.578	5629.024	5407.172
51.0	5238.903	5287.786	5441.954	5544.420	5220.102
51.5	5176.860	5219.162	5370.510	5441.014	5040.552
52.0	5117.636	5144.898	5302.826	5320.687	4895.784
52.5	5049.953	5073.454	5234.203	5164.639	4758.537
53.0	4971.929	4996.370	5163.699	4986.029	4552.666
53.5	4892.024	4924.926	5096.015	4799.899	4275.351
54.0	4817.760	4860.063	5024.571	4642.911	3958.554
54.5	4755.717	4788.619	4952.188	4507.543	3696.280

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CANDELA TABULATION - (Cont.)

55.0	4693.674	4704.954	4882.624	4338.334	3512.030
55.5	4614.709	4627.870	4811.180	4097.681	3371.962
56.0	4529.165	4565.827	4741.616	3797.805	3235.655
56.5	4457.721	4500.023	4671.112	3518.610	3065.506
57.0	4397.558	4426.699	4596.848	3321.199	2893.476
57.5	4329.874	4344.915	4515.064	3180.192	2750.589
58.0	4251.850	4265.010	4427.639	3065.506	2662.224
58.5	4164.425	4188.866	4320.473	2925.438	2606.761
59.0	4093.921	4114.602	4197.327	2733.668	2560.698
59.5	4025.297	4034.698	4057.259	2574.799	2495.835
60.0	3936.933	3951.033	3891.810	2480.794	2409.350
60.5	3852.328	3879.590	3743.282	2425.331	2299.364
61.0	3776.184	3801.565	3603.215	2378.328	2163.057
61.5	3709.440	3720.721	3440.586	2309.705	2019.229
62.0	3629.536	3635.176	3263.856	2221.340	1875.401
62.5	3530.831	3548.692	3035.424	2105.714	1684.571
63.0	3444.346	3474.428	2777.850	1961.886	1397.856
63.5	3375.722	3401.104	2569.159	1822.758	1166.603
64.0	3292.058	3315.559	2427.211	1683.631	1029.356
64.5	3212.154	3240.355	2319.105	1476.820	903.483
65.0	3136.949	3163.271	2194.079	1206.085	711.242
65.5	3037.304	3075.846	2037.090	1019.015	616.297
66.0	2952.700	2995.002	1905.483	904.799	595.052
66.5	2879.376	2921.678	1826.519	736.530	585.276
67.0	2799.471	2839.893	1764.475	617.237	576.721
67.5	2715.807	2759.049	1699.612	574.089	568.261
68.0	2629.322	2685.725	1615.947	562.244	560.364
68.5	2554.118	2599.240	1497.501	552.844	552.656
69.0	2480.794	2521.216	1362.134	544.101	544.947
69.5	2399.010	2441.312	1246.507	535.923	537.051
70.0	2319.105	2367.048	1087.639	528.121	529.249
70.5	2242.021	2282.443	883.836	520.130	521.728
71.0	2174.337	2194.079	752.511	512.704	514.208
71.5	2096.313	2101.954	653.429	505.277	505.747
72.0	2018.289	2004.188	540.059	496.911	497.569
72.5	1941.205	1879.162	484.032	488.920	488.826
73.0	1868.821	1748.494	469.461	480.836	479.332
73.5	1796.437	1636.628	459.779	472.188	469.743
74.0	1724.053	1518.182	450.284	462.881	459.215
74.5	1652.609	1388.455	441.354	452.822	448.780
75.0	1572.705	1223.006	432.329	442.576	437.876
75.5	1499.381	1107.380	423.681	432.047	426.501
76.0	1426.057	1022.775	415.314	421.143	414.938
76.5	1348.033	930.274	406.290	409.956	403.000
77.0	1270.009	832.133	397.265	398.488	391.155
77.5	1191.044	768.209	387.583	386.925	378.934
78.0	1102.680	690.279	377.524	374.986	366.714
78.5	1029.356	592.702	366.714	362.484	354.117
79.0	964.492	517.404	355.809	350.263	341.802
79.5	897.184	408.452	344.623	338.042	329.206
80.0	829.219	351.109	333.060	325.446	316.327
80.5	761.159	297.432	321.497	312.473	303.636
81.0	692.065	279.195	309.465	299.594	292.168
81.5	623.912	267.820	296.868	286.903	281.169
82.0	562.526	255.976	283.707	274.025	266.504
82.5	507.721	244.037	270.547	261.240	253.532

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CANDELA TABULATION - (Cont.)

83.0	448.780	232.381	256.540	248.079	240.935
83.5	391.249	220.254	242.627	235.107	228.056
84.0	335.692	207.845	228.244	221.570	214.802
84.5	283.801	194.685	214.144	207.469	200.983
85.0	232.193	181.430	199.573	192.240	185.848
85.5	205.401	167.329	183.968	175.884	170.337
86.0	175.978	152.758	167.517	158.681	153.510
86.5	133.205	137.529	149.092	140.068	136.495
87.0	110.832	121.643	129.539	120.609	117.976
87.5	96.731	105.098	108.670	100.867	98.047
88.0	82.724	86.955	87.801	79.152	75.674
88.5	67.402	67.402	66.556	55.651	51.327
89.0	49.259	48.601	45.310	36.098	33.184
89.5	30.834	32.620	29.142	24.723	23.971
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-4-L240-835-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-4-L240-835-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-4-L240-835-HA-CA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3307.33	N.A.	14.00
0-30	7053.97	N.A.	29.80
0-40	11623.49	N.A.	49.10
0-60	20411.67	N.A.	86.20
0-80	23474.21	N.A.	99.10
0-90	23687.44	N.A.	100.00
10-90	22834.58	N.A.	96.40
20-40	8316.16	N.A.	35.10
20-50	13097.87	N.A.	55.30
40-70	10998.73	N.A.	46.40
60-80	3062.54	N.A.	12.90
70-80	851.98	N.A.	3.60
80-90	213.23	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	23687.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	852.86
10-20	2454.47
20-30	3746.64
30-40	4569.52
40-50	4781.71
50-60	4006.46
60-70	2210.56
70-80	851.98
80-90	213.23
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-4-L240-835-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-4-L240-835-HA-CA-DIM-UNV_.IES

UGR TABLE - CORRECTED

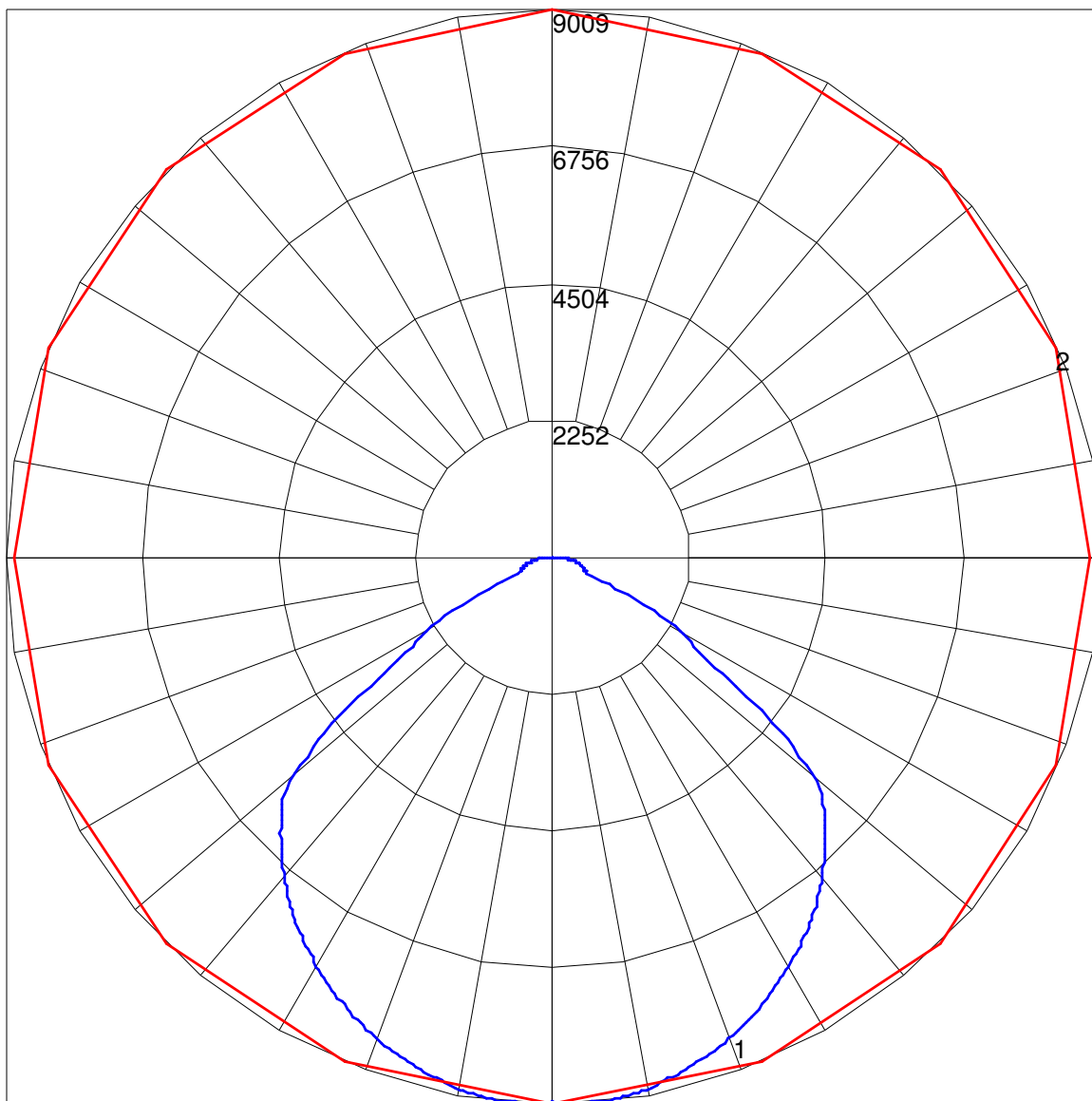
Reflectances

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	23.4	25.0	23.8	25.3	25.6	21.0	22.6	21.4	22.9	23.2
	3H	25.1	26.5	25.5	26.8	27.2	21.1	22.5	21.5	22.8	23.2
	4H	25.6	26.9	26.0	27.3	27.7	21.2	22.5	21.6	22.9	23.2
	6H	25.9	27.1	26.3	27.5	27.9	21.3	22.5	21.7	22.9	23.3
	8H	26.0	27.1	26.4	27.5	27.9	21.4	22.5	21.8	22.9	23.3
	12H	26.0	27.1	26.4	27.5	27.9	21.4	22.5	21.9	22.9	23.3
4H	2H	23.6	24.9	24.0	25.3	25.7	21.6	22.9	22.0	23.3	23.6
	3H	25.5	26.6	25.9	27.0	27.4	21.8	22.9	22.2	23.3	23.7
	4H	26.1	27.1	26.5	27.5	27.9	21.9	22.9	22.4	23.3	23.7
	6H	26.4	27.3	26.9	27.7	28.2	22.1	23.0	22.6	23.4	23.9
	8H	26.5	27.3	27.0	27.7	28.2	22.2	23.0	22.7	23.4	23.9
	12H	26.5	27.2	27.0	27.7	28.2	22.3	23.0	22.8	23.5	24.0
8H	4H	26.0	26.8	26.5	27.3	27.7	22.1	22.9	22.6	23.3	23.8
	6H	26.4	27.0	26.9	27.5	28.0	22.4	23.0	22.9	23.5	24.0
	8H	26.5	27.1	27.0	27.6	28.1	22.5	23.1	23.0	23.6	24.1
	12H	26.6	27.1	27.1	27.6	28.1	22.7	23.2	23.2	23.7	24.3
12H	4H	26.0	26.7	26.5	27.2	27.7	22.1	22.8	22.6	23.3	23.8
	6H	26.4	27.0	26.9	27.4	28.0	22.4	23.0	22.9	23.4	24.0
	8H	26.5	27.0	27.0	27.5	28.0	22.6	23.1	23.1	23.6	24.2

Maximum UGR = 28.2

POLAR GRAPH



Maximum Candela = 9008.507 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.)