



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L240-840-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-L240-840-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	24420
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
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	24173	24921	25372
55	23137	24068	17312
65	20987	14679	4758
75	17180	4723	4783
85	7532	6474	6029

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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	9257.078	9257.078	9257.078	9257.078	9257.078
0.5	9142.722	9262.893	9283.245	9268.708	9287.121
1.0	9145.629	9263.862	9284.214	9268.708	9286.152
1.5	9149.505	9262.893	9285.183	9265.800	9283.245
2.0	9148.536	9264.831	9283.245	9266.770	9284.214
2.5	9146.598	9262.893	9284.214	9264.831	9281.306
3.0	9145.629	9259.017	9282.276	9265.800	9283.245
3.5	9142.722	9253.202	9281.306	9265.800	9283.245
4.0	9135.938	9250.294	9278.399	9269.677	9285.183
4.5	9127.216	9244.480	9274.523	9271.615	9287.121
5.0	9115.586	9237.696	9271.615	9269.677	9284.214
5.5	9106.864	9231.881	9267.739	9266.770	9280.337
6.0	9100.080	9226.066	9262.893	9259.986	9272.584
6.5	9090.389	9217.344	9258.047	9253.202	9261.924
7.0	9077.790	9207.653	9248.356	9243.511	9249.325
7.5	9067.130	9198.931	9239.634	9230.912	9235.758
8.0	9057.439	9188.270	9227.035	9217.344	9223.159
8.5	9052.593	9176.641	9215.406	9203.776	9213.468
9.0	9044.840	9164.042	9202.807	9190.209	9201.838
9.5	9034.180	9154.351	9192.147	9180.517	9193.116
10.0	9022.550	9145.629	9180.517	9168.888	9181.487
10.5	9011.890	9135.938	9166.950	9154.351	9167.919
11.0	9000.260	9126.247	9151.444	9137.876	9153.382
11.5	8990.569	9115.586	9135.938	9122.370	9131.092
12.0	8972.156	9102.018	9123.339	9102.018	9102.018
12.5	8951.804	9088.451	9105.895	9074.883	9078.759
13.0	8931.452	9072.945	9087.482	9047.747	9053.562
13.5	8910.132	9051.624	9069.068	9024.488	9025.458
14.0	8886.873	9031.272	9049.686	8998.322	8999.291
14.5	8855.861	9010.921	9026.427	8972.156	8977.001
15.0	8833.571	8990.569	9004.137	8945.989	8959.557
15.5	8820.972	8968.279	8977.970	8920.792	8942.113
16.0	8802.559	8943.082	8951.804	8898.502	8920.792
16.5	8783.176	8919.823	8920.792	8876.212	8901.410
17.0	8770.578	8895.595	8893.657	8853.922	8879.120
17.5	8750.226	8872.336	8864.583	8828.725	8857.799
18.0	8726.967	8845.200	8833.571	8805.466	8832.602
18.5	8701.770	8819.034	8806.435	8777.362	8799.652
19.0	8671.727	8793.837	8772.516	8748.288	8768.640
19.5	8638.777	8767.670	8740.535	8720.183	8743.442
20.0	8607.765	8741.504	8709.523	8690.140	8716.307
20.5	8577.722	8713.399	8681.418	8661.067	8689.171
21.0	8548.648	8683.357	8652.345	8633.931	8660.098
21.5	8514.729	8653.314	8622.302	8606.796	8628.116
22.0	8481.779	8623.271	8592.259	8577.722	8596.135
22.5	8453.674	8591.290	8560.278	8547.679	8567.062
23.0	8425.569	8558.339	8524.420	8512.791	8532.173
23.5	8397.465	8521.513	8489.532	8481.779	8501.161
24.0	8362.576	8488.563	8451.736	8450.767	8467.242
24.5	8332.533	8455.612	8412.971	8415.878	8435.261
25.0	8299.583	8414.909	8371.298	8383.897	8398.434
25.5	8261.787	8380.990	8334.472	8348.039	8363.545
26.0	8218.177	8347.070	8298.614	8312.182	8324.780
26.5	8170.690	8302.491	8263.726	8274.386	8286.985

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CANDELA TABULATION - (Cont.)

27.0	8127.079	8258.880	8225.930	8237.559	8249.189
27.5	8084.438	8213.331	8191.041	8200.732	8212.362
28.0	8043.734	8167.782	8153.245	8165.844	8175.535
28.5	8008.846	8122.233	8113.511	8128.048	8135.801
29.0	7970.081	8077.654	8072.808	8083.468	8097.036
29.5	7931.316	8033.074	8032.105	8042.765	8062.148
30.0	7892.551	7983.649	7988.494	8000.124	8021.444
30.5	7853.786	7938.100	7948.760	7956.513	7984.618
31.0	7812.114	7887.705	7909.026	7915.810	7943.914
31.5	7765.596	7838.280	7867.354	7874.137	7903.211
32.0	7717.139	7793.700	7823.743	7831.496	7860.570
32.5	7666.745	7746.213	7782.071	7793.700	7815.990
33.0	7614.412	7699.695	7744.275	7752.028	7775.287
33.5	7564.018	7650.270	7700.664	7709.386	7738.460
34.0	7512.654	7597.937	7653.177	7664.807	7695.819
34.5	7464.198	7546.573	7604.721	7620.227	7651.239
35.0	7419.618	7493.272	7551.419	7576.616	7603.752
35.5	7377.946	7439.970	7490.364	7531.067	7561.110
36.0	7327.551	7382.791	7440.939	7485.519	7516.531
36.5	7275.218	7325.613	7393.452	7438.031	7469.043
37.0	7215.133	7268.435	7341.119	7391.513	7422.525
37.5	7150.201	7212.225	7287.817	7344.995	7373.100
38.0	7088.177	7156.985	7240.330	7296.539	7321.736
38.5	7025.184	7100.776	7194.781	7246.145	7265.527
39.0	6969.944	7044.567	7141.479	7191.874	7213.195
39.5	6917.612	6984.481	7082.363	7134.695	7161.831
40.0	6863.341	6921.488	7023.246	7080.424	7108.529
40.5	6807.131	6858.495	6967.037	7025.184	7058.135
41.0	6754.799	6795.502	6909.859	6965.099	7006.771
41.5	6690.836	6731.540	6848.804	6909.859	6947.654
42.0	6620.090	6668.546	6786.780	6850.742	6887.569
42.5	6543.529	6604.584	6723.787	6791.625	6828.452
43.0	6468.907	6539.653	6663.701	6732.509	6771.274
43.5	6399.130	6470.845	6601.677	6672.423	6715.064
44.0	6337.106	6405.914	6545.468	6614.275	6662.732
44.5	6285.742	6341.951	6485.382	6561.943	6606.523
45.0	6232.440	6274.113	6425.296	6507.672	6541.591
45.5	6174.293	6208.212	6360.365	6442.740	6482.475
46.0	6105.485	6140.374	6287.681	6371.025	6418.512
46.5	6034.739	6069.627	6211.120	6311.909	6357.457
47.0	5960.116	6001.789	6146.188	6250.854	6298.341
47.5	5893.247	5936.857	6081.257	6186.892	6235.348
48.0	5832.192	5873.864	6012.449	6125.837	6170.416
48.5	5772.106	5816.686	5944.610	6065.751	6092.886
49.0	5708.144	5738.187	5880.648	6003.727	5994.036
49.5	5639.336	5654.842	5817.655	5941.703	5879.679
50.0	5553.084	5585.065	5751.755	5874.833	5742.063
50.5	5474.585	5524.010	5681.008	5803.118	5574.405
51.0	5400.931	5451.326	5610.262	5715.897	5381.549
51.5	5336.969	5380.580	5536.609	5609.293	5196.446
52.0	5275.914	5304.019	5466.832	5485.245	5047.201
52.5	5206.137	5230.366	5396.086	5324.371	4905.709
53.0	5125.700	5150.897	5323.402	5140.237	4693.471
53.5	5043.324	5077.244	5253.625	4948.350	4407.579
54.0	4966.764	5010.374	5179.971	4786.506	4080.984
54.5	4902.801	4936.721	5105.348	4646.953	3810.598

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55.0	4838.839	4850.469	5033.633	4472.510	3620.650
55.5	4757.433	4771.000	4959.980	4224.414	3476.250
56.0	4669.242	4707.038	4888.265	3915.263	3335.727
56.5	4595.589	4639.200	4815.580	3627.433	3160.315
57.0	4533.565	4563.608	4739.019	3423.917	2982.966
57.5	4463.788	4479.294	4654.706	3278.549	2835.659
58.0	4383.351	4396.918	4564.577	3160.315	2744.561
58.5	4293.222	4318.419	4454.097	3015.916	2687.383
59.0	4220.538	4241.858	4327.141	2818.214	2639.895
59.5	4149.792	4159.483	4182.742	2654.432	2573.026
60.0	4058.694	4073.231	4012.176	2557.520	2483.866
60.5	3971.473	3999.577	3859.054	2500.342	2370.479
61.0	3892.974	3919.140	3714.655	2451.885	2229.956
61.5	3824.166	3835.795	3546.996	2381.139	2081.680
62.0	3741.790	3747.605	3364.801	2290.041	1933.404
62.5	3640.032	3658.445	3129.303	2170.839	1736.671
63.0	3550.873	3581.885	2863.763	2022.563	1441.088
63.5	3480.126	3506.293	2648.618	1879.133	1202.684
64.0	3393.874	3418.103	2502.280	1735.702	1061.191
64.5	3311.499	3340.573	2390.830	1522.495	931.426
65.0	3233.969	3261.104	2261.937	1243.387	733.240
65.5	3131.242	3170.976	2100.093	1050.531	635.358
66.0	3044.020	3087.631	1964.416	932.782	613.456
66.5	2968.429	3012.039	1883.009	759.309	603.377
67.0	2886.053	2927.725	1819.047	636.327	594.558
67.5	2799.801	2844.381	1752.177	591.844	585.836
68.0	2710.642	2768.789	1665.925	579.633	577.695
68.5	2633.112	2679.630	1543.816	569.942	569.748
69.0	2557.520	2599.192	1404.262	560.929	561.802
69.5	2473.206	2516.817	1285.059	552.498	553.661
70.0	2390.830	2440.256	1121.277	544.454	545.617
70.5	2311.362	2353.035	911.171	536.217	537.864
71.0	2241.585	2261.937	775.784	528.561	530.111
71.5	2161.148	2166.963	673.639	520.904	521.389
72.0	2080.711	2066.174	556.762	512.279	512.958
72.5	2001.242	1937.280	499.002	504.042	503.945
73.0	1926.620	1802.572	483.981	495.707	494.157
73.5	1851.997	1687.246	473.999	486.791	484.272
74.0	1777.375	1565.136	464.211	477.197	473.417
74.5	1703.721	1431.397	455.004	466.827	462.660
75.0	1621.345	1260.831	445.700	456.264	451.418
75.5	1545.754	1141.629	436.784	445.410	439.692
76.0	1470.162	1054.408	428.159	434.168	427.772
76.5	1389.725	959.046	418.856	422.635	415.464
77.0	1309.287	857.869	409.552	410.812	403.253
77.5	1227.881	791.969	399.570	398.892	390.654
78.0	1136.783	711.628	389.200	386.584	378.056
78.5	1061.191	611.033	378.056	373.694	365.069
79.0	994.322	533.406	366.814	361.096	352.374
79.5	924.933	421.085	355.281	348.497	339.387
80.0	854.865	361.968	343.361	335.511	326.110
80.5	784.700	306.631	331.441	322.137	313.027
81.0	713.470	287.830	319.036	308.860	301.204
81.5	643.208	276.104	306.050	295.777	289.865
82.0	579.924	263.893	292.482	282.500	274.747
82.5	523.424	251.585	278.914	269.320	261.373

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CANDELA TABULATION - (Cont.)

83.0	462.660	239.568	264.474	255.752	248.387
83.5	403.350	227.066	250.131	242.378	235.110
84.0	346.074	214.273	235.303	228.423	221.445
84.5	292.579	200.706	220.767	213.886	207.199
85.0	239.374	187.041	205.745	198.186	191.596
85.5	211.754	172.504	189.658	181.323	175.605
86.0	181.420	157.483	172.698	163.588	158.258
86.5	137.325	141.783	153.703	144.400	140.717
87.0	114.260	125.405	133.545	124.339	121.625
87.5	99.723	108.348	112.031	103.987	101.080
88.0	85.283	89.644	90.516	81.600	78.015
88.5	69.486	69.486	68.614	57.372	52.914
89.0	50.782	50.104	46.712	37.214	34.210
89.5	31.787	33.629	30.043	25.488	24.713
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-L240-840-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-L240-840-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-L240-840-CA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3409.62	N.A.	14.00
0-30	7272.13	N.A.	29.80
0-40	11982.98	N.A.	49.10
0-60	21042.96	N.A.	86.20
0-80	24200.21	N.A.	99.10
0-90	24420.04	N.A.	100.00
10-90	23540.8	N.A.	96.40
20-40	8573.37	N.A.	35.10
20-50	13502.96	N.A.	55.30
40-70	11338.9	N.A.	46.40
60-80	3157.26	N.A.	12.90
70-80	878.33	N.A.	3.60
80-90	219.83	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	24420.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	879.24
10-20	2530.38
20-30	3862.52
30-40	4710.85
40-50	4929.6
50-60	4130.38
60-70	2278.93
70-80	878.33
80-90	219.83
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-L240-840-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-L240-840-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

X=2H	Y=2H	23.5	25.1	23.9	25.4	25.7	21.1	22.7	21.5	23.0	23.3
	3H	25.2	26.6	25.6	26.9	27.3	21.2	22.6	21.6	22.9	23.3
	4H	25.7	27.0	26.1	27.4	27.8	21.3	22.6	21.7	23.0	23.3
	6H	26.0	27.2	26.4	27.6	28.0	21.4	22.6	21.8	23.0	23.4
	8H	26.1	27.2	26.5	27.6	28.0	21.5	22.6	21.9	23.0	23.4
	12H	26.1	27.2	26.5	27.6	28.0	21.5	22.6	22.0	23.0	23.4

UGR Viewed Endwise

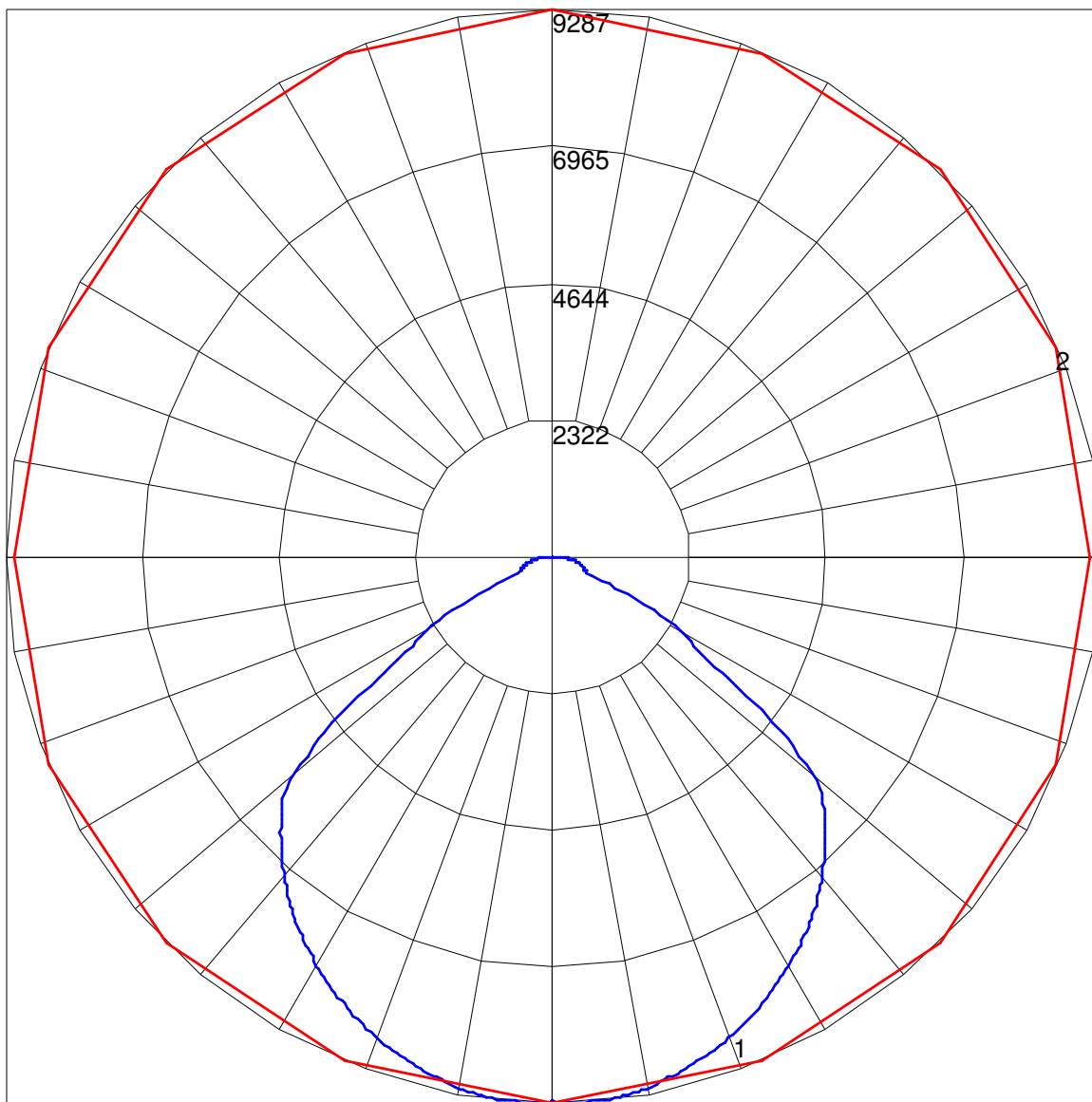
4H	2H	23.7	25.0	24.1	25.4	25.8	21.7	23.0	22.1	23.4	23.7
	3H	25.6	26.7	26.0	27.1	27.5	21.9	23.0	22.3	23.4	23.8
	4H	26.2	27.2	26.6	27.6	28.0	22.0	23.0	22.5	23.4	23.8
	6H	26.5	27.4	27.0	27.8	28.3	22.2	23.1	22.7	23.5	24.0
	8H	26.6	27.4	27.1	27.8	28.3	22.3	23.1	22.8	23.5	24.0
	12H	26.6	27.3	27.1	27.8	28.3	22.4	23.1	22.9	23.6	24.1

8H	4H	26.1	26.9	26.6	27.4	27.8	22.2	23.0	22.7	23.4	23.9
	6H	26.5	27.1	27.0	27.6	28.1	22.5	23.1	23.0	23.6	24.1
	8H	26.6	27.2	27.1	27.7	28.2	22.6	23.2	23.1	23.7	24.2
	12H	26.7	27.2	27.2	27.7	28.2	22.8	23.3	23.3	23.8	24.4

12H	4H	26.1	26.8	26.6	27.3	27.8	22.2	22.9	22.7	23.4	23.9
	6H	26.5	27.1	27.0	27.5	28.1	22.5	23.1	23.0	23.5	24.1
	8H	26.6	27.1	27.1	27.6	28.1	22.7	23.2	23.2	23.7	24.3

Maximum UGR = 28.3

POLAR GRAPH



Maximum Candela = 9287.121 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.)