



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L240-840-HE-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-HE-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	25397
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
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	25140	25918	26387
55	24062	25031	18005
65	21826	15266	4949
75	17868	4912	4975
85	7834	6733	6270

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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	9627.365	9627.365	9627.365	9627.365	9627.365
0.5	9508.434	9633.412	9654.578	9639.460	9658.610
1.0	9511.458	9634.420	9655.586	9639.460	9657.602
1.5	9515.489	9633.412	9656.594	9636.436	9654.578
2.0	9514.481	9635.428	9654.578	9637.444	9655.586
2.5	9512.466	9633.412	9655.586	9635.428	9652.562
3.0	9511.458	9629.381	9653.570	9636.436	9654.578
3.5	9508.434	9623.334	9652.562	9636.436	9654.578
4.0	9501.379	9620.310	9649.539	9640.468	9656.594
4.5	9492.308	9614.263	9645.507	9642.483	9658.610
5.0	9480.213	9607.207	9642.483	9640.468	9655.586
5.5	9471.142	9601.160	9638.452	9637.444	9651.555
6.0	9464.087	9595.113	9633.412	9630.389	9643.491
6.5	9454.008	9586.042	9628.373	9623.334	9632.405
7.0	9440.905	9575.963	9618.294	9613.255	9619.302
7.5	9429.819	9566.892	9609.223	9600.152	9605.192
8.0	9419.740	9555.805	9596.121	9586.042	9592.089
8.5	9414.700	9543.710	9584.026	9571.931	9582.010
9.0	9406.637	9530.608	9570.923	9557.821	9569.915
9.5	9395.550	9520.529	9559.837	9547.742	9560.844
10.0	9383.456	9511.458	9547.742	9535.647	9548.750
10.5	9372.369	9501.379	9533.631	9520.529	9534.639
11.0	9360.274	9491.300	9517.505	9503.395	9519.521
11.5	9350.195	9480.213	9501.379	9487.268	9496.339
12.0	9331.045	9466.103	9488.276	9466.103	9466.103
12.5	9309.880	9451.992	9470.134	9437.882	9441.913
13.0	9288.714	9435.866	9450.984	9409.661	9415.708
13.5	9266.541	9413.692	9431.834	9385.472	9386.479
14.0	9242.351	9392.527	9411.677	9358.259	9359.266
14.5	9210.099	9371.361	9387.487	9331.045	9336.085
15.0	9186.917	9350.195	9364.306	9303.832	9317.943
15.5	9173.815	9327.014	9337.093	9277.627	9299.801
16.0	9154.665	9300.809	9309.880	9254.446	9277.627
16.5	9134.507	9276.619	9277.627	9231.264	9257.470
17.0	9121.404	9251.422	9249.406	9208.083	9234.288
17.5	9100.239	9227.233	9219.170	9181.878	9212.114
18.0	9076.049	9199.012	9186.917	9157.688	9185.909
18.5	9049.844	9171.799	9158.696	9128.460	9151.641
19.0	9018.600	9145.594	9123.420	9098.223	9119.389
19.5	8984.331	9118.381	9090.160	9068.994	9093.183
20.0	8952.079	9091.168	9057.907	9037.750	9064.963
20.5	8920.834	9061.939	9028.678	9007.513	9036.742
21.0	8890.598	9030.694	8998.442	8979.292	9006.505
21.5	8855.321	8999.450	8967.197	8951.071	8973.245
22.0	8821.053	8968.205	8935.953	8920.834	8939.984
22.5	8791.824	8934.945	8902.692	8889.590	8909.747
23.0	8762.596	8900.676	8865.400	8853.306	8873.463
23.5	8733.367	8862.377	8829.116	8821.053	8841.211
24.0	8697.083	8828.108	8789.809	8788.801	8805.935
24.5	8665.838	8793.840	8749.493	8752.517	8772.674
25.0	8631.570	8751.509	8706.154	8719.256	8734.375
25.5	8592.262	8716.233	8667.854	8681.964	8698.091
26.0	8546.907	8680.956	8630.562	8644.672	8657.775
26.5	8497.520	8634.594	8594.278	8605.365	8618.467

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**CANDELA TABULATION - (Cont.)**

27.0	8452.165	8589.238	8554.970	8567.065	8579.160
27.5	8407.818	8541.868	8518.686	8528.765	8540.860
28.0	8365.487	8494.497	8479.378	8492.481	8502.560
28.5	8329.203	8447.126	8438.055	8453.173	8461.236
29.0	8288.887	8400.763	8395.724	8406.810	8420.921
29.5	8248.572	8354.400	8353.392	8364.479	8384.637
30.0	8208.256	8302.998	8308.037	8320.132	8342.305
30.5	8167.940	8255.627	8266.714	8274.777	8304.006
31.0	8124.601	8203.217	8225.390	8232.445	8261.674
31.5	8076.222	8151.814	8182.051	8189.106	8219.343
32.0	8025.828	8105.451	8136.696	8144.759	8174.996
32.5	7973.418	8056.065	8093.357	8105.451	8128.633
33.0	7918.992	8007.686	8054.049	8062.112	8086.301
33.5	7866.581	7956.284	8008.694	8017.765	8048.002
34.0	7813.163	7901.857	7959.307	7971.402	8003.654
34.5	7762.769	7848.439	7908.913	7925.039	7957.291
35.0	7716.406	7793.005	7853.479	7879.684	7907.905
35.5	7673.066	7737.571	7789.982	7832.313	7863.558
36.0	7620.656	7678.106	7738.579	7784.942	7817.195
36.5	7566.230	7618.640	7689.193	7735.556	7767.808
37.0	7503.741	7559.175	7634.767	7687.177	7719.429
37.5	7436.212	7500.717	7579.333	7638.798	7668.027
38.0	7371.707	7443.268	7529.946	7588.404	7614.609
38.5	7306.195	7384.810	7482.575	7535.993	7556.151
39.0	7248.745	7326.352	7427.141	7479.552	7501.725
39.5	7194.319	7263.863	7365.660	7420.086	7448.307
40.0	7137.877	7198.350	7304.179	7363.644	7392.873
40.5	7079.419	7132.837	7245.721	7306.195	7340.463
41.0	7024.993	7067.325	7186.256	7243.705	7287.045
41.5	6958.472	7000.804	7122.759	7186.256	7225.563
42.0	6884.896	6935.291	7058.254	7124.774	7163.074
42.5	6805.273	6868.770	6992.741	7063.293	7101.593
43.0	6727.666	6801.242	6930.252	7001.812	7042.127
43.5	6655.098	6729.681	6865.747	6939.323	6983.670
44.0	6590.593	6662.153	6807.289	6878.849	6929.244
44.5	6537.174	6595.632	6744.800	6824.423	6870.786
45.0	6481.741	6525.080	6682.311	6767.981	6803.257
45.5	6421.267	6456.543	6614.782	6700.453	6741.776
46.0	6349.707	6385.991	6539.190	6625.869	6675.255
46.5	6276.131	6312.415	6459.567	6564.387	6611.758
47.0	6198.523	6241.863	6392.038	6500.890	6550.277
47.5	6128.979	6174.334	6324.510	6434.370	6484.764
48.0	6065.482	6108.821	6252.949	6370.873	6417.236
48.5	6002.993	6049.356	6182.397	6308.383	6336.604
49.0	5936.472	5967.717	6115.876	6243.878	6233.800
49.5	5864.912	5881.038	6050.364	6179.374	6114.869
50.0	5775.210	5808.470	5981.827	6109.829	5971.748
50.5	5693.571	5744.973	5908.251	6035.245	5797.383
51.0	5616.971	5669.381	5834.675	5944.535	5596.813
51.5	5550.450	5595.805	5758.075	5833.667	5404.306
52.0	5486.953	5516.182	5685.507	5704.657	5249.091
52.5	5414.385	5439.582	5611.931	5537.348	5101.939
53.0	5330.730	5356.935	5536.340	5345.848	4881.211
53.5	5245.059	5280.336	5463.772	5146.286	4583.884
54.0	5165.436	5210.791	5387.172	4977.969	4244.225
54.5	5098.915	5134.192	5309.564	4832.832	3963.023

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**CANDELA TABULATION - (Cont.)**

55.0	5032.395	5044.489	5234.981	4651.412	3765.477
55.5	4947.732	4961.842	5158.381	4393.392	3615.301
56.0	4856.014	4895.322	5083.797	4071.876	3469.157
56.5	4779.414	4824.769	5008.205	3772.532	3286.729
57.0	4714.909	4746.154	4928.582	3560.875	3102.285
57.5	4642.341	4658.468	4840.896	3409.692	2949.086
58.0	4558.686	4572.797	4747.162	3286.729	2854.344
58.5	4464.953	4491.158	4632.262	3136.554	2794.879
59.0	4389.361	4411.534	4500.229	2930.944	2745.492
59.5	4315.785	4325.864	4350.053	2760.611	2675.948
60.0	4221.043	4236.162	4172.665	2659.822	2583.222
60.5	4130.333	4159.562	4013.418	2600.356	2465.299
61.0	4048.694	4075.907	3863.242	2549.962	2319.155
61.5	3977.134	3989.229	3688.877	2476.386	2164.948
62.0	3891.463	3897.511	3499.394	2381.644	2010.741
62.5	3785.635	3804.785	3254.477	2257.674	1806.139
63.0	3692.909	3725.161	2978.315	2103.466	1498.732
63.5	3619.333	3646.546	2754.563	1954.299	1250.791
64.0	3529.631	3554.828	2602.372	1805.131	1103.640
64.5	3443.960	3474.197	2486.465	1583.395	968.683
65.0	3363.329	3391.550	2352.415	1293.123	762.570
65.5	3256.493	3297.816	2184.098	1092.553	660.773
66.0	3165.782	3211.137	2042.993	970.094	637.994
66.5	3087.167	3132.522	1958.330	789.682	627.512
67.0	3001.496	3044.836	1891.810	661.781	618.341
67.5	2911.794	2958.157	1822.265	615.518	609.269
68.0	2819.068	2879.542	1732.563	602.819	600.803
68.5	2738.437	2786.816	1605.569	592.740	592.539
69.0	2659.822	2703.161	1460.433	583.367	584.274
69.5	2572.135	2617.490	1336.462	574.598	575.808
70.0	2486.465	2537.867	1166.129	566.233	567.442
70.5	2403.818	2447.157	947.618	557.666	559.379
71.0	2331.250	2352.415	806.816	549.703	551.316
71.5	2247.595	2253.642	700.584	541.741	542.245
72.0	2163.940	2148.821	579.033	532.771	533.476
72.5	2081.293	2014.772	518.963	524.204	524.103
73.0	2003.685	1874.675	503.340	515.536	513.923
73.5	1926.078	1754.736	492.959	506.263	503.643
74.0	1848.470	1627.742	482.779	496.285	492.354
74.5	1771.871	1488.654	473.204	485.501	481.167
75.0	1686.200	1311.265	463.529	474.515	469.475
75.5	1607.585	1187.294	454.256	463.226	457.280
76.0	1528.969	1096.584	445.286	451.535	444.883
76.5	1445.314	997.408	435.610	439.541	432.082
77.0	1361.659	892.184	425.934	427.245	419.383
77.5	1276.997	823.648	415.553	414.848	406.280
78.0	1182.255	740.094	404.769	402.047	393.178
78.5	1103.640	635.475	393.178	388.642	379.672
79.0	1034.095	554.743	381.486	375.540	366.469
79.5	961.930	437.928	369.492	362.437	352.963
80.0	889.060	376.447	357.095	348.932	339.155
80.5	816.089	318.896	344.698	335.023	325.548
81.0	742.009	299.343	331.797	321.215	313.252
81.5	668.937	287.148	318.292	307.608	301.460
82.0	603.121	274.448	304.181	293.800	285.737
82.5	544.361	261.648	290.071	280.093	271.828

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**CANDELA TABULATION - (Cont.)**

83.0	481.167	249.150	275.053	265.982	258.322
83.5	419.484	236.149	260.136	252.073	244.514
84.0	359.918	222.844	244.716	237.560	230.303
84.5	304.282	208.734	229.597	222.441	215.487
85.0	248.949	194.523	213.975	206.114	199.260
85.5	220.224	179.404	197.244	188.576	182.630
86.0	188.677	163.782	179.606	170.132	164.588
86.5	142.818	147.454	159.851	150.176	146.346
87.0	118.830	130.421	138.887	129.312	126.490
87.5	103.712	112.682	116.512	108.147	105.123
88.0	88.694	93.230	94.137	84.864	81.135
88.5	72.266	72.266	71.359	59.667	55.031
89.0	52.813	52.108	48.580	38.703	35.579
89.5	33.059	34.974	31.245	26.508	25.701
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-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-4-L240-840-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-4-L240-840-HE-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3546.01	N.A.	14.00
0-30	7563.02	N.A.	29.80
0-40	12462.31	N.A.	49.10
0-60	21884.68	N.A.	86.20
0-80	25168.23	N.A.	99.10
0-90	25396.85	N.A.	100.00
10-90	24482.45	N.A.	96.40
20-40	8916.3	N.A.	35.10
20-50	14043.09	N.A.	55.30
40-70	11792.46	N.A.	46.40
60-80	3283.55	N.A.	12.90
70-80	913.46	N.A.	3.60
80-90	228.62	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	25396.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	914.41
10-20	2631.6
20-30	4017.02
30-40	4899.29
40-50	5126.78
50-60	4295.59
60-70	2370.09
70-80	913.46
80-90	228.62
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-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-4-L240-840-HE-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

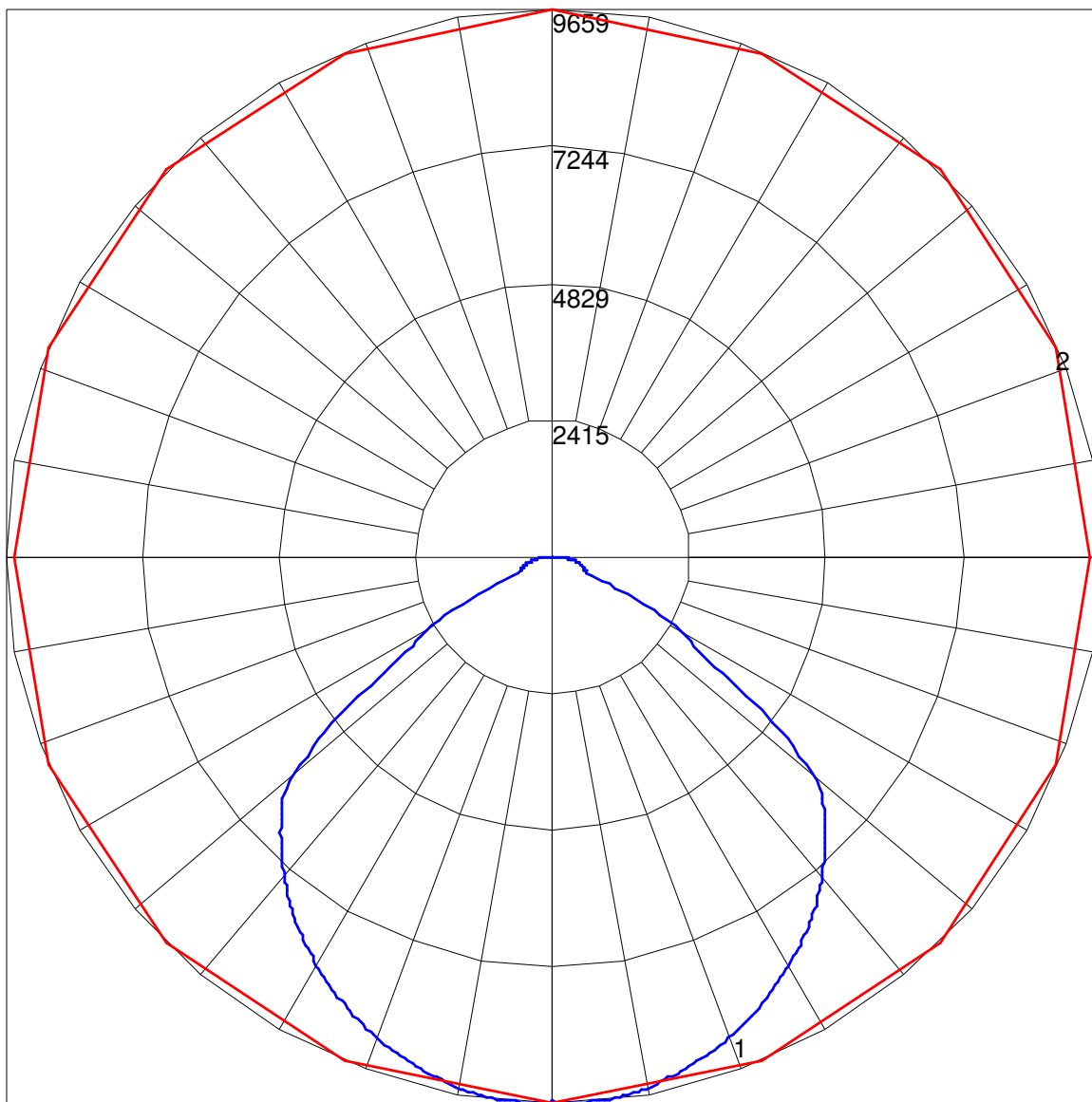
Reflectances

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	23.6	25.2	24.0	25.5	25.8	21.2	22.8	21.6	23.1	23.4
	3H	25.3	26.7	25.7	27.0	27.4	21.3	22.7	21.7	23.0	23.4
	4H	25.8	27.1	26.2	27.5	27.9	21.4	22.7	21.8	23.1	23.4
	6H	26.1	27.3	26.5	27.7	28.1	21.5	22.7	21.9	23.1	23.5
	8H	26.2	27.3	26.6	27.7	28.1	21.6	22.7	22.0	23.1	23.5
	12H	26.2	27.3	26.6	27.7	28.1	21.6	22.7	22.1	23.1	23.5
4H	2H	23.8	25.1	24.2	25.5	25.9	21.8	23.1	22.2	23.5	23.8
	3H	25.7	26.8	26.1	27.2	27.6	22.0	23.1	22.4	23.5	23.9
	4H	26.3	27.3	26.7	27.7	28.1	22.1	23.1	22.6	23.5	23.9
	6H	26.6	27.5	27.1	27.9	28.4	22.3	23.2	22.8	23.6	24.1
	8H	26.7	27.5	27.2	27.9	28.4	22.4	23.2	22.9	23.6	24.1
	12H	26.7	27.4	27.2	27.9	28.4	22.5	23.2	23.0	23.7	24.2
8H	4H	26.2	27.0	26.7	27.5	27.9	22.3	23.1	22.8	23.5	24.0
	6H	26.6	27.2	27.1	27.7	28.2	22.6	23.2	23.1	23.7	24.2
	8H	26.7	27.3	27.2	27.8	28.3	22.7	23.3	23.2	23.8	24.3
	12H	26.8	27.3	27.3	27.8	28.3	22.9	23.4	23.4	23.9	24.5
12H	4H	26.2	26.9	26.7	27.4	27.9	22.3	23.0	22.8	23.5	24.0
	6H	26.6	27.2	27.1	27.6	28.2	22.6	23.2	23.1	23.6	24.2
	8H	26.7	27.2	27.2	27.7	28.2	22.8	23.3	23.3	23.8	24.4

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 9658.61 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.)