



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L240-835-HE-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 14617179.01  
[TESTLAB] UL Verification Services Inc.  
[ISSUE DATE] 2023-03-14  
[TEST DATE] 1/6/2023  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] GS-4-L240-835-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	24635
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
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	24385	25140	25595
55	23340	24280	17464
65	21171	14808	4800
75	17332	4764	4825
85	7599	6531	6082

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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	9338.539	9338.539	9338.539	9338.539	9338.539
0.5	9223.176	9344.405	9364.936	9350.271	9368.847
1.0	9226.109	9345.383	9365.914	9350.271	9367.869
1.5	9230.020	9344.405	9366.891	9347.338	9364.936
2.0	9229.042	9346.361	9364.936	9348.316	9365.914
2.5	9227.087	9344.405	9365.914	9346.361	9362.981
3.0	9226.109	9340.495	9363.958	9347.338	9364.936
3.5	9223.176	9334.629	9362.981	9347.338	9364.936
4.0	9216.333	9331.696	9360.048	9351.249	9366.891
4.5	9207.534	9325.830	9356.137	9353.204	9368.847
5.0	9195.802	9318.986	9353.204	9351.249	9365.914
5.5	9187.003	9313.120	9349.294	9348.316	9362.003
6.0	9180.160	9307.255	9344.405	9341.472	9354.182
6.5	9170.383	9298.456	9339.517	9334.629	9343.428
7.0	9157.674	9288.679	9329.741	9324.852	9330.718
7.5	9146.919	9279.880	9320.942	9312.143	9317.031
8.0	9137.143	9269.126	9308.232	9298.456	9304.322
8.5	9132.255	9257.394	9296.500	9284.769	9294.545
9.0	9124.433	9244.685	9283.791	9271.081	9282.813
9.5	9113.679	9234.908	9273.037	9261.305	9274.014
10.0	9101.947	9226.109	9261.305	9249.573	9262.283
10.5	9091.193	9216.333	9247.618	9234.908	9248.595
11.0	9079.461	9206.556	9231.975	9218.288	9233.931
11.5	9069.685	9195.802	9216.333	9202.646	9211.445
12.0	9051.110	9182.115	9203.623	9182.115	9182.115
12.5	9030.579	9168.428	9186.026	9154.741	9158.651
13.0	9010.048	9152.785	9167.450	9127.366	9133.232
13.5	8988.540	9131.277	9148.875	9103.903	9104.880
14.0	8965.076	9110.746	9129.322	9077.506	9078.484
14.5	8933.791	9090.216	9105.858	9051.110	9055.998
15.0	8911.305	9069.685	9083.372	9024.713	9038.400
15.5	8898.596	9047.199	9056.975	8999.294	9020.802
16.0	8880.020	9021.780	9030.579	8976.808	8999.294
16.5	8860.467	8998.316	8999.294	8954.322	8979.741
17.0	8847.758	8973.875	8971.920	8931.836	8957.255
17.5	8827.227	8950.411	8942.590	8906.417	8935.746
18.0	8803.763	8923.037	8911.305	8882.953	8910.328
18.5	8778.344	8896.640	8883.931	8854.601	8877.087
19.0	8748.037	8871.221	8849.713	8825.272	8845.802
19.5	8714.797	8844.825	8817.450	8796.920	8820.383
20.0	8683.512	8818.428	8786.166	8766.613	8793.009
20.5	8653.205	8790.076	8757.814	8737.283	8765.635
21.0	8623.875	8759.769	8728.484	8709.909	8736.305
21.5	8589.657	8729.462	8698.177	8682.534	8704.043
22.0	8556.417	8699.155	8667.870	8653.205	8671.780
22.5	8528.065	8666.892	8635.607	8622.898	8642.451
23.0	8499.713	8633.652	8599.434	8587.702	8607.255
23.5	8471.361	8596.501	8564.238	8556.417	8575.970
24.0	8436.166	8563.261	8526.110	8525.132	8541.752
24.5	8405.859	8530.021	8487.004	8489.937	8509.490
25.0	8372.618	8488.959	8444.965	8457.674	8472.339
25.5	8334.490	8454.741	8407.814	8421.501	8437.144
26.0	8290.496	8420.523	8371.641	8385.328	8398.037
26.5	8242.591	8375.551	8336.445	8347.200	8359.909

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**CANDELA TABULATION - (Cont.)**

27.0	8198.596	8331.557	8298.317	8310.049	8321.781
27.5	8155.580	8285.607	8263.121	8272.898	8284.630
28.0	8114.518	8239.658	8224.993	8237.702	8247.479
28.5	8079.323	8193.708	8184.909	8199.574	8207.395
29.0	8040.217	8148.736	8143.848	8154.602	8168.289
29.5	8001.110	8103.764	8102.786	8113.540	8133.094
30.0	7962.004	8053.904	8058.792	8070.524	8092.032
30.5	7922.898	8007.954	8018.708	8026.529	8054.881
31.0	7880.859	7957.116	7978.624	7985.468	8013.820
31.5	7833.932	7907.256	7936.585	7943.429	7972.758
32.0	7785.049	7862.284	7892.591	7900.412	7929.742
32.5	7734.211	7814.379	7850.552	7862.284	7884.770
33.0	7681.418	7767.451	7812.423	7820.245	7843.708
33.5	7630.580	7717.591	7768.429	7777.228	7806.558
34.0	7578.764	7664.798	7720.524	7732.256	7763.541
34.5	7529.882	7612.982	7671.641	7687.284	7718.569
35.0	7484.910	7559.211	7617.871	7643.289	7670.664
35.5	7442.871	7505.440	7556.278	7597.340	7627.647
36.0	7392.033	7447.759	7506.418	7551.390	7582.675
36.5	7339.239	7390.077	7458.513	7503.485	7534.770
37.0	7278.625	7332.396	7405.720	7456.558	7487.843
37.5	7213.122	7275.692	7351.949	7409.630	7437.982
38.0	7150.552	7219.966	7304.044	7360.748	7386.167
38.5	7087.005	7163.262	7258.094	7309.910	7329.463
39.0	7031.279	7106.558	7204.323	7255.161	7276.670
39.5	6978.486	7045.944	7144.687	7197.480	7224.854
40.0	6923.737	6982.396	7085.050	7142.731	7171.083
40.5	6867.033	6918.849	7028.346	7087.005	7120.245
41.0	6814.240	6855.301	6970.664	7026.391	7068.430
41.5	6749.715	6790.776	6909.072	6970.664	7008.793
42.0	6678.346	6727.229	6846.502	6911.028	6948.178
42.5	6601.112	6662.704	6782.955	6851.391	6888.542
43.0	6525.832	6597.201	6722.341	6791.754	6830.860
43.5	6455.441	6527.788	6659.771	6731.139	6774.156
44.0	6392.872	6462.285	6603.067	6672.480	6721.363
44.5	6341.056	6397.760	6542.452	6619.687	6664.659
45.0	6287.285	6329.324	6481.838	6564.938	6599.156
45.5	6228.626	6262.844	6416.335	6499.436	6539.520
46.0	6159.213	6194.408	6343.011	6427.089	6474.994
46.5	6087.844	6123.039	6265.777	6367.453	6413.402
47.0	6012.565	6054.604	6200.274	6305.860	6353.765
47.5	5945.107	5989.101	6134.771	6241.335	6290.218
48.0	5883.514	5925.554	6065.358	6179.743	6224.715
48.5	5822.900	5867.872	5996.922	6119.129	6146.503
49.0	5758.375	5788.682	5932.397	6056.559	6046.782
49.5	5688.962	5704.604	5868.850	5993.989	5931.419
50.0	5601.950	5634.213	5802.369	5926.531	5792.593
50.5	5522.761	5572.621	5731.001	5854.185	5623.459
51.0	5448.459	5499.297	5659.632	5766.196	5428.906
51.5	5383.934	5427.928	5585.330	5658.654	5242.174
52.0	5322.342	5350.694	5514.939	5533.515	5091.616
52.5	5251.951	5276.392	5443.571	5371.224	4948.878
53.0	5170.806	5196.225	5370.247	5185.470	4734.772
53.5	5087.705	5121.923	5299.856	4991.895	4446.365
54.0	5010.471	5054.465	5225.554	4828.627	4116.896
54.5	4945.945	4980.163	5150.275	4687.845	3844.131

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**PHOTOMETRIC FILENAME : GS-4-L240-835-HE-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

55.0	4881.420	4893.152	5077.929	4511.868	3652.511
55.5	4799.298	4812.985	5003.627	4261.589	3506.841
56.0	4710.331	4748.460	4931.281	3949.717	3365.081
56.5	4636.030	4680.024	4857.957	3659.354	3188.126
57.0	4573.460	4603.767	4780.722	3454.047	3009.215
57.5	4503.069	4518.711	4695.666	3307.399	2860.612
58.0	4421.924	4435.611	4604.745	3188.126	2768.713
58.5	4331.002	4356.421	4493.292	3042.455	2711.031
59.0	4257.678	4279.186	4365.220	2843.014	2663.126
59.5	4186.309	4196.086	4219.549	2677.791	2595.668
60.0	4094.410	4109.075	4047.483	2580.026	2505.724
60.5	4006.421	4034.773	3893.013	2522.344	2391.339
61.0	3927.231	3953.628	3747.343	2473.462	2249.579
61.5	3857.818	3869.550	3578.209	2402.093	2099.998
62.0	3774.717	3780.583	3394.410	2310.194	1950.417
62.5	3672.064	3690.639	3156.841	2189.942	1751.954
63.0	3582.120	3613.405	2888.964	2040.361	1453.770
63.5	3510.751	3537.148	2671.925	1895.669	1213.267
64.0	3423.740	3448.181	2524.299	1750.976	1070.530
64.5	3340.640	3369.969	2411.869	1535.893	939.622
65.0	3262.427	3289.802	2281.842	1254.329	739.692
65.5	3158.796	3198.880	2118.574	1059.776	640.949
66.0	3070.807	3114.802	1981.702	940.991	618.854
66.5	2994.550	3038.545	1899.579	765.991	608.687
67.0	2911.450	2953.489	1835.054	641.927	599.790
67.5	2824.439	2869.411	1767.596	597.053	590.991
68.0	2734.495	2793.154	1680.585	584.734	582.779
68.5	2656.283	2703.210	1557.401	574.958	574.762
69.0	2580.026	2622.065	1416.619	565.865	566.745
69.5	2494.970	2538.964	1296.368	557.360	558.533
70.0	2411.869	2461.730	1131.144	549.245	550.419
70.5	2331.702	2373.741	919.189	540.935	542.597
71.0	2261.311	2281.842	782.611	533.212	534.776
71.5	2180.166	2186.032	679.566	525.488	525.977
72.0	2099.021	2084.356	561.662	516.787	517.472
72.5	2018.853	1954.328	503.393	508.477	508.379
73.0	1943.574	1818.434	488.240	500.069	498.505
73.5	1868.294	1702.094	478.170	491.075	488.533
74.0	1793.015	1578.909	468.296	481.396	477.583
74.5	1718.714	1443.993	459.008	470.935	466.731
75.0	1635.613	1271.926	449.623	460.279	455.391
75.5	1559.356	1151.675	440.628	449.329	443.561
76.0	1483.099	1063.686	431.927	437.988	431.536
76.5	1401.954	967.485	422.542	426.354	419.120
77.0	1320.809	865.418	413.156	414.427	406.801
77.5	1238.686	798.938	403.086	402.402	394.092
78.0	1146.787	717.890	392.625	389.986	381.382
78.5	1070.530	616.410	381.382	376.983	368.282
79.0	1003.072	538.100	370.042	364.273	355.475
79.5	933.072	424.790	358.408	351.564	342.374
80.0	862.388	365.153	346.382	338.463	328.980
80.5	791.605	309.329	334.357	324.972	315.782
81.0	719.748	290.363	321.843	311.578	303.854
81.5	648.868	278.533	308.743	298.380	292.416
82.0	585.027	266.215	295.056	284.986	277.165
82.5	528.030	253.799	281.368	271.690	263.673

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**CANDELA TABULATION - (Cont.)**

83.0	466.731	241.676	266.801	258.003	250.572
83.5	406.899	229.064	252.332	244.511	237.179
84.0	349.120	216.159	237.374	230.433	223.394
84.5	295.153	202.472	222.709	215.768	209.022
85.0	241.480	188.687	207.556	199.930	193.282
85.5	213.617	174.022	191.327	182.919	177.151
86.0	183.017	158.869	174.218	165.028	159.651
86.5	138.533	143.031	155.056	145.670	141.955
87.0	115.265	126.508	134.721	125.433	122.695
87.5	100.600	109.302	113.017	104.902	101.969
88.0	86.033	90.433	91.313	82.318	78.701
88.5	70.098	70.098	69.218	57.877	53.380
89.0	51.229	50.545	47.123	37.542	34.511
89.5	32.067	33.925	30.307	25.712	24.930
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-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-L240-835-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-L240-835-HE-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3439.62	N.A.	14.00
0-30	7336.13	N.A.	29.80
0-40	12088.44	N.A.	49.10
0-60	21228.13	N.A.	86.20
0-80	24413.17	N.A.	99.10
0-90	24634.93	N.A.	100.00
10-90	23747.96	N.A.	96.40
20-40	8648.81	N.A.	35.10
20-50	13621.79	N.A.	55.30
40-70	11438.68	N.A.	46.40
60-80	3185.04	N.A.	12.90
70-80	886.06	N.A.	3.60
80-90	221.76	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	24634.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	886.97
10-20	2552.65
20-30	3896.51
30-40	4752.31
40-50	4972.98
50-60	4166.72
60-70	2298.98
70-80	886.06
80-90	221.76
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-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-L240-835-HE-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

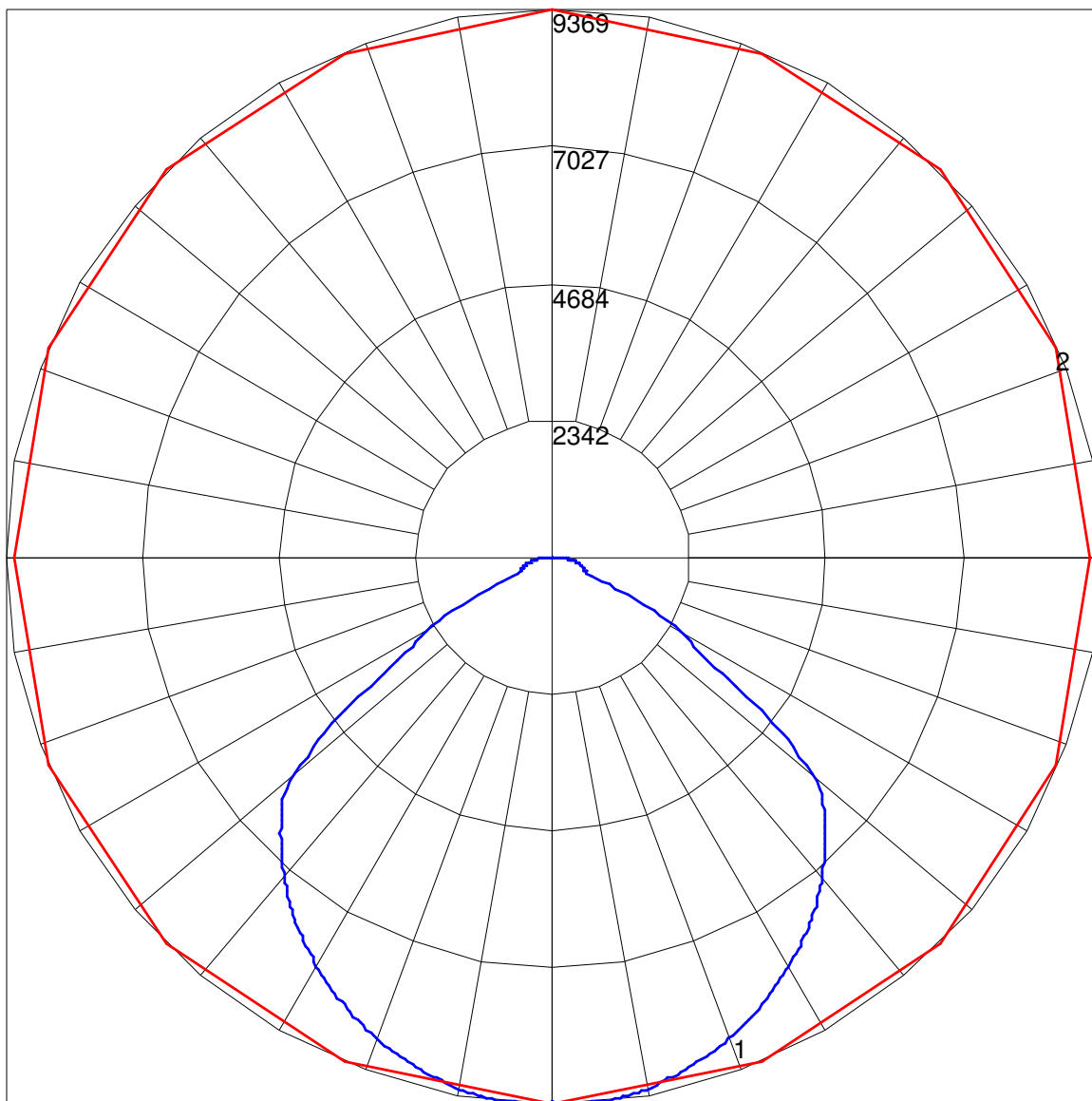
Reflectances

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	23.5	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
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 = 9368.847 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.)