



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14629546.02
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 2023-03-14
[TEST DATE] 1/5/2023
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] GS-4-L240-835-HA-MD-DIM-UNV
[LUMINAIRE] White aluminum housing, prismatic lense enclosure
[LAMP] 448 White LEDs
[BALLAST] ULT D21CC80UNVPW-C

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	22503
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	169
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)	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	21227	20625	18036
55	16029	15032	12699
65	12454	11262	10480
75	11994	9796	10550
85	10723	7273	8081

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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	10173.428	10173.428	10173.428	10173.428	10173.428
0.5	10084.534	10163.551	10193.182	10173.428	10183.305
1.0	10084.534	10163.551	10193.182	10163.551	10183.305
1.5	10084.534	10163.551	10193.182	10163.551	10183.305
2.0	10074.657	10163.551	10183.305	10153.673	10173.428
2.5	10074.657	10153.673	10183.305	10153.673	10163.551
3.0	10064.779	10143.796	10173.428	10143.796	10153.673
3.5	10064.779	10143.796	10163.551	10133.919	10153.673
4.0	10054.902	10133.919	10153.673	10124.042	10143.796
4.5	10045.025	10124.042	10143.796	10114.165	10133.919
5.0	10045.025	10114.165	10143.796	10114.165	10124.042
5.5	10035.148	10104.288	10133.919	10104.288	10114.165
6.0	10025.271	10094.411	10124.042	10094.411	10104.288
6.5	10015.394	10094.411	10114.165	10084.534	10094.411
7.0	10005.517	10074.657	10104.288	10074.657	10084.534
7.5	9985.763	10064.779	10094.411	10064.779	10074.657
8.0	9975.885	10054.902	10084.534	10054.902	10064.779
8.5	9966.008	10045.025	10074.657	10045.025	10045.025
9.0	9946.254	10025.271	10054.902	10035.148	10035.148
9.5	9936.377	10015.394	10045.025	10015.394	10025.271
10.0	9916.623	10005.517	10035.148	10005.517	10005.517
10.5	9896.869	9985.763	10015.394	9985.763	9995.640
11.0	9886.991	9966.008	9995.640	9966.008	9975.885
11.5	9868.225	9946.254	9975.885	9946.254	9956.131
12.0	9850.446	9926.500	9956.131	9926.500	9936.377
12.5	9831.680	9906.746	9936.377	9906.746	9916.623
13.0	9810.938	9886.991	9916.623	9886.991	9896.869
13.5	9787.233	9860.323	9896.869	9862.299	9877.114
14.0	9763.527	9836.618	9866.249	9839.581	9854.397
14.5	9737.847	9811.925	9840.569	9815.876	9832.667
15.0	9711.179	9788.220	9814.888	9790.196	9809.950
15.5	9682.535	9761.552	9787.233	9764.515	9787.233
16.0	9653.892	9733.896	9757.601	9738.835	9761.552
16.5	9624.260	9705.253	9728.958	9712.166	9734.884
17.0	9593.641	9674.633	9698.339	9683.523	9706.240
17.5	9561.047	9642.039	9668.707	9654.879	9676.609
18.0	9527.464	9609.444	9639.076	9624.260	9645.990
18.5	9495.858	9575.862	9607.469	9592.653	9611.420
19.0	9462.275	9542.280	9575.862	9560.059	9578.825
19.5	9429.681	9506.723	9543.268	9526.477	9544.256
20.0	9395.111	9470.177	9505.735	9493.882	9511.661
20.5	9357.578	9430.669	9465.239	9461.288	9475.116
21.0	9319.057	9388.197	9420.792	9426.718	9439.558
21.5	9279.549	9345.726	9383.259	9389.185	9402.025
22.0	9238.065	9303.254	9343.750	9351.652	9364.492
22.5	9193.618	9257.819	9299.303	9311.156	9323.996
23.0	9148.183	9212.385	9252.881	9268.684	9280.537
23.5	9100.773	9165.962	9206.458	9224.237	9237.077
24.0	9050.400	9116.576	9157.073	9177.815	9192.630
24.5	9001.014	9066.203	9108.675	9129.417	9147.196
25.0	8949.653	9015.830	9060.277	9079.043	9099.785
25.5	8895.329	8961.506	9008.916	9026.695	9051.388
26.0	8841.993	8909.157	8957.555	8972.371	8999.039
26.5	8787.669	8852.858	8903.231	8918.046	8945.702

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CANDELA TABULATION - (Cont.)

27.0	8730.381	8797.546	8847.919	8860.759	8890.391
27.5	8672.106	8740.258	8790.632	8802.484	8833.103
28.0	8610.868	8680.996	8731.369	8741.246	8772.853
28.5	8549.630	8619.758	8669.143	8679.020	8709.639
29.0	8480.490	8556.544	8605.930	8613.831	8643.463
29.5	8414.314	8491.355	8540.741	8546.667	8574.323
30.0	8346.162	8424.191	8472.589	8476.539	8502.220
30.5	8275.046	8356.039	8401.473	8402.461	8425.178
31.0	8201.956	8285.911	8329.370	8321.469	8344.186
31.5	8127.877	8214.796	8253.317	8236.526	8258.255
32.0	8053.799	8143.681	8178.251	8158.496	8181.214
32.5	7975.770	8066.639	8099.234	8074.541	8096.271
33.0	7899.716	7989.598	8018.241	7982.684	7976.758
33.5	7819.711	7908.605	7933.298	7889.839	7867.122
34.0	7738.719	7824.650	7847.367	7791.068	7755.510
34.5	7658.714	7739.707	7758.473	7686.370	7639.948
35.0	7572.784	7653.776	7666.616	7578.710	7518.459
35.5	7486.853	7565.870	7570.808	7466.111	7390.057
36.0	7396.971	7474.012	7472.037	7348.573	7258.691
36.5	7305.114	7379.192	7368.327	7225.109	7122.387
37.0	7211.281	7282.396	7262.642	7099.670	6984.108
37.5	7115.473	7183.625	7153.994	6968.304	6842.865
38.0	7015.714	7083.866	7044.358	6836.939	6697.671
38.5	6913.980	6981.144	6930.771	6701.622	6552.478
39.0	6810.270	6877.435	6815.209	6563.342	6403.333
39.5	6703.597	6772.737	6696.683	6424.075	6255.176
40.0	6595.937	6666.064	6576.183	6283.820	6106.032
40.5	6485.313	6558.404	6452.719	6141.590	5954.912
41.0	6373.702	6448.768	6329.255	6000.347	5794.903
41.5	6263.078	6337.157	6203.815	5857.129	5630.943
42.0	6150.479	6224.557	6075.413	5716.874	5494.639
42.5	6037.880	6110.971	5948.986	5586.496	5358.335
43.0	5924.293	5996.396	5822.559	5445.253	5215.116
43.5	5810.706	5879.846	5696.132	5295.121	5069.923
44.0	5697.120	5763.296	5568.717	5159.805	4926.705
44.5	5584.520	5644.771	5441.302	5023.500	4788.425
45.0	5472.909	5525.258	5317.838	4890.159	4650.145
45.5	5359.322	5407.720	5192.399	4758.794	4514.829
46.0	5245.735	5290.182	5068.935	4630.391	4384.451
46.5	5135.112	5171.657	4948.434	4505.940	4258.024
47.0	5023.500	5055.107	4826.946	4383.463	4134.560
47.5	4911.889	4939.545	4708.420	4262.963	4016.035
48.0	4802.253	4823.983	4590.883	4146.413	3901.460
48.5	4692.617	4711.384	4474.333	4032.826	3789.849
49.0	4582.981	4599.772	4360.746	3920.227	3683.176
49.5	4472.357	4488.161	4249.135	3812.566	3580.454
50.0	4363.709	4378.525	4138.511	3706.881	3481.683
50.5	4257.036	4269.877	4028.875	3603.171	3384.887
51.0	4151.351	4163.204	3923.190	3504.400	3292.042
51.5	4044.678	4058.506	3817.505	3401.678	3204.136
52.0	3941.956	3954.797	3715.770	3308.833	3117.217
52.5	3838.247	3853.062	3618.975	3220.927	3034.250
53.0	3736.512	3752.316	3526.130	3134.008	2954.245
53.5	3636.753	3652.557	3424.396	3049.065	2876.216
54.0	3539.958	3554.773	3325.624	2966.097	2801.150
54.5	3445.137	3458.965	3232.780	2886.093	2728.059

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CANDELA TABULATION - (Cont.)

55.0	3352.293	3364.145	3143.885	2808.064	2655.956
55.5	3259.448	3270.313	3055.979	2732.010	2586.816
56.0	3171.541	3179.443	2970.048	2657.931	2519.652
56.5	3084.623	3089.561	2886.093	2586.816	2454.463
57.0	2998.692	3001.655	2804.113	2516.689	2390.262
57.5	2916.712	2915.724	2724.108	2448.537	2328.036
58.0	2837.695	2832.756	2646.079	2382.360	2267.785
58.5	2759.666	2750.776	2569.037	2318.159	2209.510
59.0	2683.612	2671.759	2493.971	2254.945	2153.211
59.5	2608.546	2593.730	2420.881	2193.707	2097.899
60.0	2537.431	2517.676	2349.765	2135.432	2045.550
60.5	2467.303	2445.573	2280.626	2077.157	1995.177
61.0	2399.151	2374.458	2212.474	2021.845	1944.804
61.5	2331.987	2305.318	2146.297	1967.521	1897.394
62.0	2267.785	2239.142	2082.096	1916.160	1851.959
62.5	2205.560	2174.941	2019.870	1865.787	1808.500
63.0	2144.322	2114.690	1958.632	1816.401	1767.016
63.5	2082.096	2057.403	1900.357	1768.991	1726.520
64.0	2010.980	1992.214	1844.057	1723.556	1687.999
64.5	1965.546	1936.902	1788.745	1680.097	1650.466
65.0	1919.123	1883.566	1735.409	1637.626	1614.908
65.5	1866.775	1831.217	1684.048	1597.129	1580.338
66.0	1818.377	1773.930	1634.662	1556.633	1546.756
66.5	1769.979	1723.556	1586.265	1518.112	1514.162
67.0	1724.544	1675.159	1538.854	1480.579	1482.555
67.5	1680.097	1627.748	1494.407	1444.034	1450.948
68.0	1637.626	1582.314	1450.948	1408.476	1420.329
68.5	1596.142	1537.867	1408.476	1373.907	1389.710
69.0	1556.633	1494.407	1366.993	1339.337	1360.079
69.5	1519.100	1451.936	1327.484	1305.755	1330.447
70.0	1481.567	1410.452	1287.976	1273.160	1301.804
70.5	1445.022	1369.956	1250.443	1239.578	1272.172
71.0	1409.464	1330.447	1211.922	1206.983	1243.529
71.5	1373.907	1290.939	1175.377	1174.389	1213.897
72.0	1340.324	1251.430	1138.831	1141.794	1184.266
72.5	1305.755	1212.910	1099.323	1108.212	1153.647
73.0	1272.172	1174.389	1063.765	1075.618	1123.028
73.5	1239.578	1135.868	1030.183	1041.048	1092.409
74.0	1206.983	1097.347	994.625	1007.466	1060.802
74.5	1167.475	1058.827	958.080	972.896	1028.208
75.0	1131.917	1020.306	924.498	938.326	995.613
75.5	1095.372	982.773	890.916	902.768	961.043
76.0	1057.839	944.252	850.420	868.198	927.461
76.5	1020.306	905.731	813.874	832.641	891.903
77.0	981.785	868.198	777.329	797.083	856.346
77.5	943.264	829.678	740.784	761.526	819.800
78.0	902.768	792.145	705.226	724.980	782.267
78.5	861.284	753.624	668.681	689.423	744.734
79.0	820.788	716.091	633.123	653.865	706.214
79.5	780.292	677.570	595.590	617.320	667.693
80.0	738.808	640.037	560.032	581.762	629.172
80.5	697.324	602.504	524.475	546.204	589.664
81.0	655.840	564.971	488.917	510.647	551.143
81.5	615.344	528.426	453.360	476.077	511.635
82.0	574.848	492.868	418.790	441.507	473.114
82.5	534.352	456.323	384.220	407.925	435.581

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CANDELA TABULATION - (Cont.)

83.0	494.843	417.802	351.625	374.343	398.048
83.5	455.335	386.195	320.019	341.748	362.490
84.0	416.814	355.576	288.412	309.154	325.945
84.5	378.293	321.006	258.780	278.535	291.375
85.0	340.760	290.387	231.124	247.916	256.805
85.5	304.215	260.756	203.469	219.272	225.198
86.0	266.682	230.137	177.788	191.616	192.604
86.5	231.124	200.505	154.083	161.985	163.960
87.0	195.567	170.874	130.378	134.329	135.316
87.5	160.997	141.243	107.661	108.648	108.648
88.0	126.427	114.575	86.919	84.943	84.943
88.5	92.845	90.869	68.152	65.189	62.226
89.0	65.189	70.128	52.349	48.398	45.435
89.5	44.447	52.349	37.533	34.570	34.570
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-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-4-L240-835-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-4-L240-835-HA-MD-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3723.94	N.A.	16.50
0-30	7883.69	N.A.	35.00
0-40	12605.52	N.A.	56.00
0-60	19396.34	N.A.	86.20
0-80	22194.92	N.A.	98.60
0-90	22502.99	N.A.	100.00
10-90	21541.16	N.A.	95.70
20-40	8881.58	N.A.	39.50
20-50	12894.83	N.A.	57.30
40-70	8552.38	N.A.	38.00
60-80	2798.58	N.A.	12.40
70-80	1037.02	N.A.	4.60
80-90	308.06	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	22502.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	961.82
10-20	2762.12
20-30	4159.75
30-40	4721.83
40-50	4013.25
50-60	2777.57
60-70	1761.56
70-80	1037.02
80-90	308.06
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-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

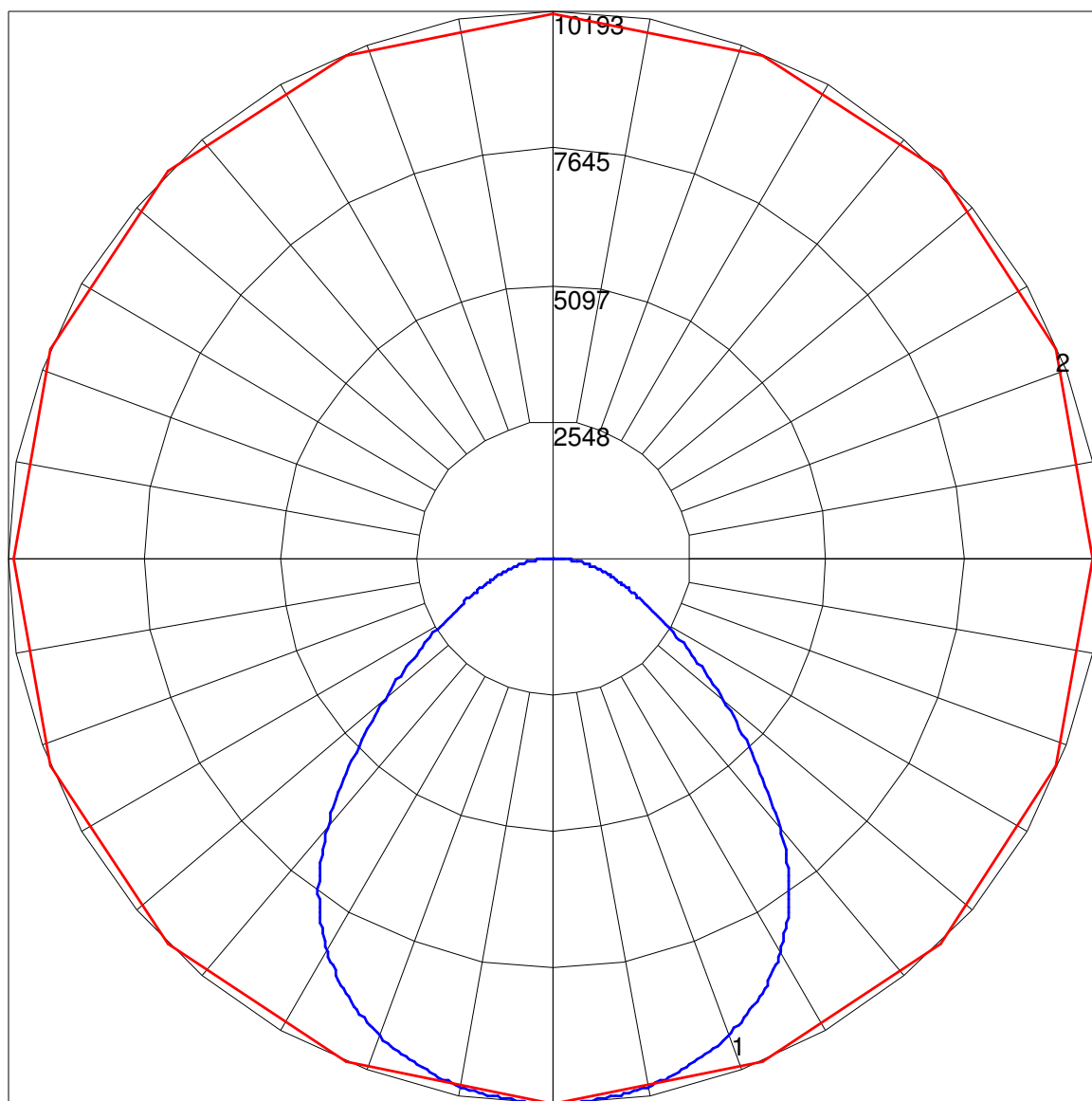
IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-4-L240-835-HA-MD-DIM-UNV_.IES

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					UGR Viewed Endwise				
X=2H	Y=2H	20.8	22.3	21.2	22.6	23.0	19.6	21.1	19.9	21.4	21.7
	3H	22.3	23.6	22.6	23.9	24.3	21.1	22.5	21.5	22.8	23.2
	4H	22.9	24.2	23.3	24.5	24.9	21.8	23.1	22.2	23.5	23.8
	6H	23.5	24.6	23.9	25.0	25.4	22.4	23.6	22.8	23.9	24.3
	8H	23.6	24.8	24.1	25.1	25.5	22.6	23.7	23.0	24.1	24.5
	12H	23.8	24.8	24.2	25.2	25.7	22.7	23.8	23.2	24.2	24.6
4H	2H	21.2	22.4	21.6	22.8	23.2	20.1	21.4	20.5	21.7	22.1
	3H	22.9	23.9	23.3	24.3	24.7	21.9	23.0	22.3	23.4	23.8
	4H	23.7	24.6	24.1	25.0	25.4	22.8	23.7	23.2	24.1	24.6
	6H	24.3	25.2	24.8	25.6	26.1	23.5	24.3	23.9	24.7	25.2
	8H	24.6	25.4	25.1	25.8	26.3	23.7	24.5	24.2	24.9	25.4
	12H	24.8	25.5	25.3	26.0	26.4	23.9	24.5	24.3	25.0	25.5
8H	4H	23.8	24.6	24.3	25.1	25.5	23.1	23.8	23.5	24.3	24.7
	6H	24.7	25.3	25.2	25.8	26.3	23.9	24.5	24.4	25.0	25.5
	8H	25.0	25.6	25.5	26.1	26.6	24.2	24.8	24.7	25.3	25.8
	12H	25.3	25.8	25.8	26.3	26.8	24.4	24.9	24.9	25.4	26.0
12H	4H	23.9	24.6	24.4	25.0	25.5	23.1	23.8	23.6	24.3	24.7
	6H	24.7	25.3	25.2	25.7	26.3	23.9	24.5	24.5	25.0	25.5
	8H	25.1	25.6	25.6	26.1	26.6	24.3	24.8	24.8	25.3	25.9

Maximum UGR = 26.8

POLAR GRAPH



Maximum Candela = 10193.182 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.)