



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L480-835-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-L480-835-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	47374
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	338
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	46894	48345	49220
55	44884	46691	33585
65	40713	28476	9231
75	33329	9162	9280
85	14613	12560	11696

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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	17958.362	17958.362	17958.362	17958.362	17958.362
0.5	17736.515	17969.643	18009.124	17980.923	18016.644
1.0	17742.155	17971.523	18011.004	17980.923	18014.764
1.5	17749.675	17969.643	18012.884	17975.283	18009.124
2.0	17747.795	17973.403	18009.124	17977.163	18011.004
2.5	17744.035	17969.643	18011.004	17973.403	18005.364
3.0	17742.155	17962.122	18007.244	17975.283	18009.124
3.5	17736.515	17950.842	18005.364	17975.283	18009.124
4.0	17723.354	17945.202	17999.724	17982.803	18012.884
4.5	17706.434	17933.922	17992.203	17986.563	18016.644
5.0	17683.873	17920.761	17986.563	17982.803	18011.004
5.5	17666.953	17909.481	17979.043	17977.163	18003.484
6.0	17653.792	17898.200	17969.643	17964.003	17988.443
6.5	17634.991	17881.280	17960.242	17950.842	17967.763
7.0	17610.551	17862.479	17941.442	17932.041	17943.322
7.5	17589.870	17845.559	17924.521	17907.601	17917.001
8.0	17571.069	17824.878	17900.080	17881.280	17892.560
8.5	17561.669	17802.317	17877.520	17854.959	17873.759
9.0	17546.629	17777.876	17853.079	17828.638	17851.199
9.5	17525.948	17759.076	17832.398	17809.837	17834.278
10.0	17503.387	17742.155	17809.837	17787.277	17811.717
10.5	17482.706	17723.354	17783.516	17759.076	17785.397
11.0	17460.146	17704.554	17753.435	17727.115	17757.196
11.5	17441.345	17683.873	17723.354	17697.034	17713.954
12.0	17405.624	17657.552	17698.914	17657.552	17657.552
12.5	17366.142	17631.231	17665.072	17604.910	17612.431
13.0	17326.661	17601.150	17629.351	17552.269	17563.549
13.5	17285.300	17559.789	17593.630	17507.147	17509.027
14.0	17240.178	17520.308	17556.029	17456.385	17458.266
14.5	17180.016	17480.826	17510.907	17405.624	17415.024
15.0	17136.775	17441.345	17467.666	17354.862	17381.183
15.5	17112.334	17398.104	17416.904	17305.980	17347.342
16.0	17076.613	17349.222	17366.142	17262.739	17305.980
16.5	17039.011	17304.100	17305.980	17219.498	17268.379
17.0	17014.571	17257.099	17253.339	17176.256	17225.138
17.5	16975.089	17211.977	17196.937	17127.374	17183.776
18.0	16929.968	17159.336	17136.775	17082.253	17134.895
18.5	16881.086	17108.574	17084.133	17027.731	17070.973
19.0	16822.804	17059.692	17018.331	16971.329	17010.811
19.5	16758.882	17008.930	16956.289	16916.807	16961.929
20.0	16698.720	16958.169	16896.127	16858.525	16909.287
20.5	16640.438	16903.647	16841.605	16802.124	16856.645
21.0	16584.036	16845.365	16785.203	16749.482	16800.243
21.5	16518.234	16787.083	16726.921	16696.840	16738.201
22.0	16454.312	16728.801	16668.639	16640.438	16676.159
22.5	16399.790	16666.759	16606.597	16582.156	16619.757
23.0	16345.268	16602.837	16537.035	16514.474	16552.075
23.5	16290.746	16531.394	16469.352	16454.312	16491.913
24.0	16223.064	16467.472	16396.030	16394.150	16426.111
24.5	16164.782	16403.550	16320.827	16326.468	16364.069
25.0	16100.860	16324.588	16239.985	16264.426	16292.626
25.5	16027.538	16258.785	16168.542	16194.863	16224.944
26.0	15942.935	16192.983	16098.980	16125.301	16149.742
26.5	15850.812	16106.500	16031.298	16051.978	16076.419

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**CANDELA TABULATION - (Cont.)**

27.0	15766.20916021.89715957.97515980.53616003.097
27.5	15683.48615933.53415890.29315909.09415931.654
28.0	15604.52315845.17115816.97015841.41115860.212
28.5	15536.84115756.80815739.88815768.08915783.129
29.0	15461.63915670.32615660.92515681.60615707.927
29.5	15386.43615583.84315581.96315602.64315640.245
30.0	15311.23415487.95915497.36015519.92115561.282
30.5	15236.03115399.59615420.27715435.31815489.840
31.0	15155.18815301.83315343.19515356.35515410.877
31.5	15064.94515205.95015262.35215275.51215331.914
32.0	14970.94215119.46715177.74915192.79015249.191
32.5	14873.17915027.34415096.90615119.46715162.709
33.0	14771.65514937.10115023.58415038.62415083.746
33.5	14673.89214841.21814938.98114955.90215012.304
34.0	14574.24914739.69414846.85814869.41914929.581
34.5	14480.24614640.05114752.85514782.93614843.098
35.0	14393.76314536.64814649.45114698.33314750.975
35.5	14312.92014433.24414531.00714609.97014668.252
36.0	14215.15714322.32014435.12414521.60714581.769
36.5	14113.63314211.39714343.00114429.48414489.646
37.0	13997.06914100.47314241.47814339.24114399.403
37.5	13871.10513991.42914138.07414248.99814303.520
38.0	13750.78113884.26614045.95114154.99514203.876
38.5	13628.57713775.22213957.58814057.23114094.833
39.0	13521.41413666.17813854.18513951.94813993.309
39.5	13419.89013549.61413739.50113841.02413893.666
40.0	13314.60713427.41013624.81713735.74113790.263
40.5	13205.56313305.20613515.77313628.57713692.499
41.0	13104.04013183.00213404.85013512.01313592.856
41.5	12979.95513058.91813286.40613404.85013478.172
42.0	12842.71112936.71413166.08213290.16613361.608
42.5	12694.18612812.63013043.87713175.48213246.924
43.0	12549.42112686.66612927.31413060.79813136.001
43.5	12414.05612553.18112806.99012944.23413026.957
44.0	12293.73212427.21712697.94612831.43012925.434
44.5	12194.08912303.13312581.38212729.90712816.390
45.0	12090.68612171.52812464.81812624.62312690.426
45.5	11977.88212043.68412338.85412498.65912575.742
46.0	11844.39711912.08012197.84912359.53512451.658
46.5	11707.15311774.83512049.32412244.85112333.214
47.0	11562.38811643.23111923.36012126.40712218.530
47.5	11432.66311517.26611797.39612002.32312096.326
48.0	11314.21911395.06211663.91111883.87911970.361
48.5	11197.65611284.13811532.30711767.31511819.956
49.0	11073.57111131.85311408.22311646.99111628.190
49.5	10940.08710970.16811286.01911526.66711406.343
50.0	10772.76110834.80311158.17411396.94211139.374
50.5	10620.47610716.35911020.93011257.81810814.123
51.0	10477.59110575.35510883.68511088.61210439.990
51.5	10353.50710438.11010740.80010881.80510080.898
52.0	10235.06310289.58510605.43610641.1579791.368
52.5	10099.69910146.70010468.19110329.0669516.879
53.0	9943.654 9992.535 10327.1869971.854 9105.145
53.5	9783.848 9849.650 10191.8229599.602 8550.527
54.0	9635.323 9719.926 10048.9379285.631 7916.946
54.5	9511.239 9577.041 9904.172 9014.902 7392.408

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**CANDELA TABULATION - (Cont.)**

55.0	9387.155	9409.716	9765.048	8676.491	7023.916
55.5	9229.230	9255.550	9622.163	8195.195	6743.786
56.0	9058.144	9131.466	9483.038	7595.455	6471.177
56.5	8915.259	8999.862	9342.033	7037.076	6130.886
57.0	8794.935	8853.217	9193.508	6642.263	5786.834
57.5	8659.570	8689.651	9029.943	6360.253	5501.065
58.0	8503.525	8529.846	8855.097	6130.886	5324.339
58.5	8328.679	8377.561	8640.770	5850.756	5213.415
59.0	8187.675	8229.036	8394.482	5467.223	5121.292
59.5	8050.430	8069.231	8114.352	5149.493	4991.567
60.0	7873.704	7901.905	7783.461	4961.486	4818.602
60.5	7704.498	7759.020	7486.411	4850.563	4598.634
61.0	7552.213	7602.975	7206.282	4756.560	4326.025
61.5	7418.729	7441.290	6881.031	4619.315	4038.375
62.0	7258.923	7270.204	6527.579	4442.589	3750.726
62.5	7061.517	7097.238	6070.724	4211.341	3369.073
63.0	6888.551	6948.713	5555.586	3923.692	2795.654
63.5	6751.306	6802.068	5138.212	3645.442	2333.158
64.0	6583.981	6630.982	4854.323	3367.193	2058.669
64.5	6424.175	6480.577	4638.116	2953.579	1806.929
65.0	6273.770	6326.412	4388.067	2412.121	1422.456
65.5	6074.484	6151.566	4074.097	2037.988	1232.569
66.0	5905.278	5989.881	3810.888	1809.561	1190.080
66.5	5758.633	5843.236	3652.963	1473.029	1170.527
67.0	5598.828	5679.670	3528.878	1234.449	1153.419
67.5	5431.502	5517.985	3399.154	1148.155	1136.498
68.0	5258.536	5371.340	3231.828	1124.466	1120.706
68.5	5108.131	5198.374	2994.940	1105.665	1105.289
69.0	4961.486	5042.329	2724.211	1088.180	1089.873
69.5	4797.921	4882.524	2492.964	1071.824	1074.080
70.0	4638.116	4733.999	2175.233	1056.219	1058.476
70.5	4483.950	4564.793	1767.635	1040.239	1043.435
71.0	4348.586	4388.067	1504.990	1025.386	1028.394
71.5	4192.541	4203.821	1306.832	1010.534	1011.474
72.0	4036.495	4008.294	1080.096	993.801	995.117
72.5	3882.330	3758.246	968.044	977.821	977.633
73.0	3737.565	3496.917	938.903	961.652	958.644
73.5	3592.801	3273.190	919.539	944.356	939.468
74.0	3448.036	3036.302	900.550	925.743	918.411
74.5	3305.151	2776.853	882.690	905.626	897.542
75.0	3145.345	2445.962	864.641	885.134	875.733
75.5	2998.701	2214.714	847.344	864.077	852.985
76.0	2852.056	2045.509	830.612	842.268	829.860
76.5	2696.010	1860.510	812.563	819.895	805.983
77.0	2539.965	1664.232	794.515	796.959	782.294
77.5	2382.040	1536.388	775.150	773.834	757.853
78.0	2205.314	1380.530	755.033	749.957	733.413
78.5	2058.669	1185.380	733.413	724.952	708.220
79.0	1928.945	1034.787	711.604	700.511	683.591
79.5	1794.332	816.887	689.231	676.071	658.398
80.0	1658.404	702.204	666.106	650.878	632.641
80.5	1522.287	594.852	642.982	624.933	607.260
81.0	1384.102	558.379	618.917	599.176	584.324
81.5	1247.798	535.630	593.724	573.795	562.327
82.0	1125.030	511.941	567.403	548.038	532.998
82.5	1015.422	488.064	541.082	522.470	507.053

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**CANDELA TABULATION - (Cont.)**

83.0	897.542	464.752	513.069	496.149	481.860
83.5	782.482	440.499	485.244	470.204	456.103
84.0	671.371	415.682	456.479	443.131	429.594
84.5	567.591	389.361	428.278	414.930	401.957
85.0	464.376	362.852	399.137	384.473	371.688
85.5	410.794	334.651	367.928	351.760	340.667
86.0	351.948	305.510	335.027	317.355	307.014
86.5	266.405	275.053	298.178	280.129	272.985
87.0	221.659	243.280	259.073	241.212	235.948
87.5	193.458	210.191	217.335	201.731	196.091
88.0	165.446	173.906	175.598	158.301	151.345
88.5	134.801	134.801	133.108	111.300	102.651
89.0	98.515	97.199	90.619	72.194	66.366
89.5	61.666	65.238	58.282	49.446	47.942
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-L480-835-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-L480-835-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-L480-835-CA-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	6614.53	N.A.	14.00
0-30	14107.65	N.A.	29.80
0-40	23246.51	N.A.	49.10
0-60	40822.5	N.A.	86.20
0-80	46947.45	N.A.	99.10
0-90	47373.9	N.A.	100.00
10-90	45668.22	N.A.	96.40
20-40	16631.99	N.A.	35.10
20-50	26195.21	N.A.	55.30
40-70	21997.01	N.A.	46.40
60-80	6124.95	N.A.	12.90
70-80	1703.92	N.A.	3.60
80-90	426.46	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	47373.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1705.68
10-20	4908.84
20-30	7493.13
30-40	9138.86
40-50	9563.22
50-60	8012.77
60-70	4421.03
70-80	1703.92
80-90	426.46
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-L480-835-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-L480-835-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	25.8	27.4	26.2	27.7	28.0	23.4	25.0	23.8	25.3	25.6
	3H	27.5	28.9	27.9	29.2	29.6	23.5	24.9	23.9	25.2	25.6
	4H	28.0	29.3	28.4	29.7	30.1	23.6	24.9	24.0	25.3	25.6
	6H	28.3	29.5	28.7	29.9	30.3	23.7	24.9	24.1	25.3	25.7
	8H	28.4	29.5	28.8	29.9	30.3	23.8	24.9	24.2	25.3	25.7
	12H	28.4	29.5	28.8	29.9	30.3	23.8	24.9	24.3	25.3	25.7

UGR Viewed Endwise

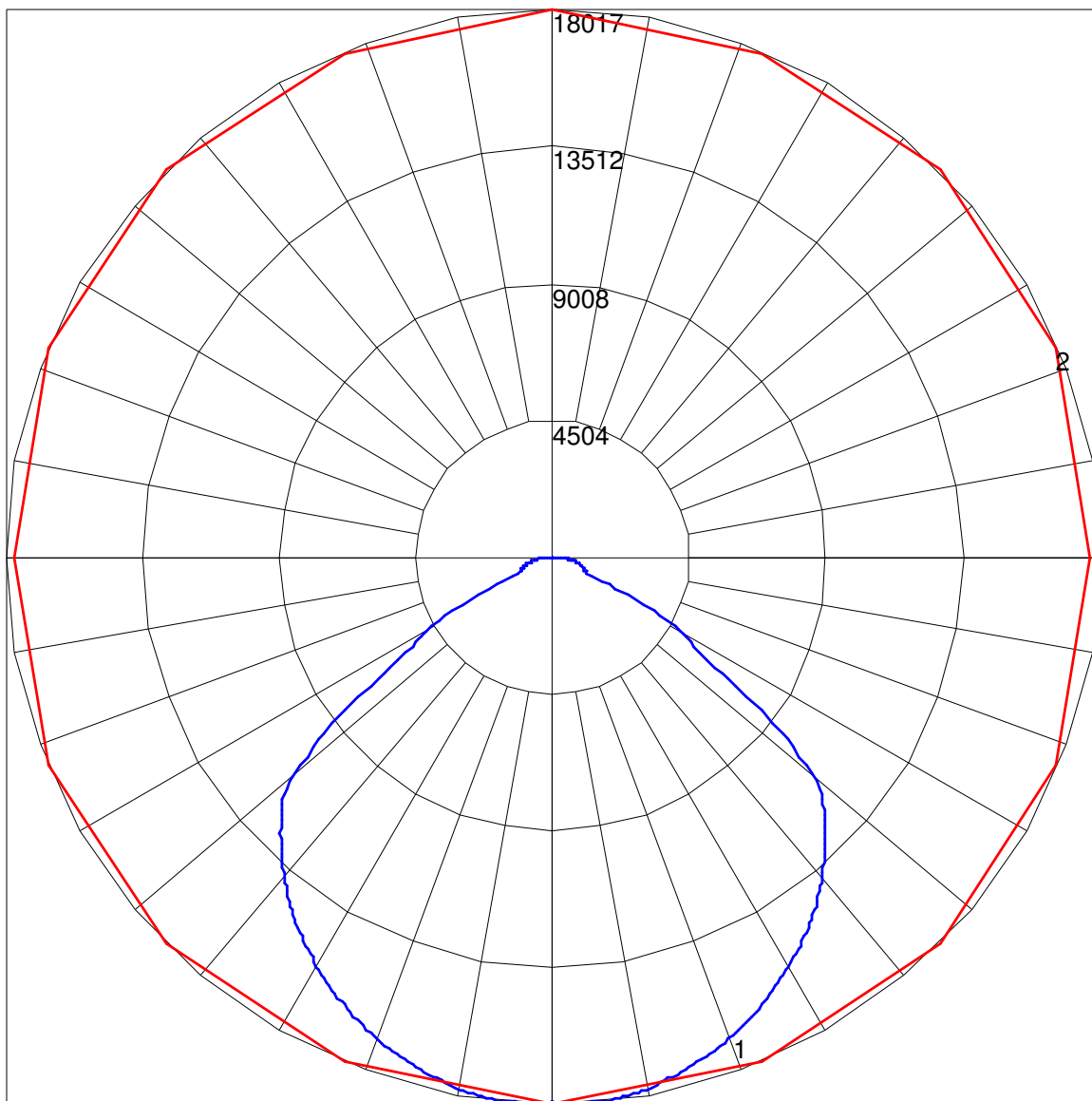
4H	2H	26.0	27.3	26.4	27.7	28.1	24.0	25.3	24.4	25.7	26.0
	3H	27.9	29.0	28.3	29.4	29.8	24.2	25.3	24.6	25.7	26.1
	4H	28.5	29.5	28.9	29.9	30.3	24.3	25.3	24.8	25.7	26.1
	6H	28.8	29.7	29.3	30.1	30.6	24.5	25.4	25.0	25.8	26.3
	8H	28.9	29.7	29.4	30.1	30.6	24.6	25.4	25.1	25.8	26.3
	12H	28.9	29.6	29.4	30.1	30.6	24.7	25.4	25.2	25.9	26.4

8H	4H	28.4	29.2	28.9	29.7	30.1	24.5	25.3	25.0	25.7	26.2
	6H	28.8	29.4	29.3	29.9	30.4	24.8	25.4	25.3	25.9	26.4
	8H	28.9	29.5	29.4	30.0	30.5	24.9	25.5	25.4	26.0	26.5
	12H	29.0	29.5	29.5	30.0	30.5	25.1	25.6	25.6	26.1	26.7

12H	4H	28.4	29.1	28.9	29.6	30.1	24.5	25.2	25.0	25.7	26.2
	6H	28.8	29.4	29.3	29.8	30.4	24.8	25.4	25.3	25.8	26.4
	8H	28.9	29.4	29.4	29.9	30.4	25.0	25.5	25.5	26.0	26.6

Maximum UGR = 30.6

POLAR GRAPH



Maximum Candela = 18016.644 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.)