

IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L480-835-HA-HP-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14617179.01
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 1/20/2025
[TEST DATE] 1/6/2023
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] GS-4-L480-835-HA-HP-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	46902
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	312
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	46427	47864	48730
55	44438	46226	33250
65	40308	28192	9139
75	32997	9071	9187
85	14467	12435	11580

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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	17779.5581	7779.5581	7779.5581	7779.5581	7779.5581
0.5	17559.9191	7790.7261	7829.8141	7801.8941	7837.259
1.0	17565.5031	7792.5871	7831.6751	7801.8941	7835.398
1.5	17572.9491	7790.7261	7833.5371	7796.3101	7829.814
2.0	17571.0871	7794.4481	7829.8141	7798.1711	7831.675
2.5	17567.3641	7790.7261	7831.6751	7794.4481	7826.091
3.0	17565.5031	7783.2801	7827.9531	7796.3101	7829.814
3.5	17559.9191	7772.1121	7826.0911	7796.3101	7829.814
4.0	17546.8901	7766.5281	7820.5071	7803.7551	7833.537
4.5	17530.1381	7755.3601	7813.0621	7807.4781	7837.259
5.0	17507.8011	7742.3311	7807.4781	7803.7551	7831.675
5.5	17491.0491	7731.1631	7800.0321	7798.1711	7824.230
6.0	17478.0201	7719.9951	7790.7261	7785.1421	7809.339
6.5	17459.4071	7703.2431	7781.4191	7772.1121	7788.864
7.0	17435.2091	7684.6291	7762.8061	7753.4991	7764.667
7.5	17414.7341	7667.8771	7746.0541	7729.3011	7738.608
8.0	17396.1211	7647.4021	7721.8561	7703.2431	7714.411
8.5	17386.8141	7625.0661	7699.5201	7677.1841	7695.797
9.0	17371.9231	7600.8691	7675.3221	7651.1251	7673.461
9.5	17351.4491	7582.2551	7654.8481	7632.5121	7656.709
10.0	17329.1121	7565.5031	7632.5121	7610.1751	7634.373
10.5	17308.6381	7546.8901	7606.4531	7582.2551	7608.314
11.0	17286.3021	7528.2761	7576.6711	7550.6121	7580.394
11.5	17267.6881	7507.8011	7546.8901	7520.8311	7537.583
12.0	17232.3231	7481.7431	7522.6921	7481.7431	7481.743
12.5	17193.2341	7455.6841	7489.1881	7429.6251	7437.070
13.0	17154.1461	7425.9021	7453.8221	7377.5071	7388.675
13.5	17113.1971	7384.9531	7418.4571	7332.8351	7334.696
14.0	17068.5241	7345.8651	7381.2301	7282.5791	7284.440
14.5	17008.9611	7306.7761	7336.5581	7232.3231	7241.629
15.0	16966.1501	7267.6881	7293.7471	7182.0661	7208.125
15.5	16941.9531	7224.8771	7243.4911	7133.6711	7174.621
16.0	16906.5871	7176.4821	7193.2341	7090.8601	7133.671
16.5	16869.3601	7131.8101	7133.6711	7048.0501	7096.444
17.0	16845.1631	7085.2761	7081.5541	7005.2391	7053.634
17.5	16806.0751	7040.6041	7025.7131	6956.8441	7012.684
18.0	16761.4031	6988.4871	6966.1501	6912.1711	6964.289
18.5	16713.0081	6938.2301	6914.0331	6858.1921	6901.003
19.0	16655.3061	6889.8351	6848.8861	6802.3521	6841.440
19.5	16592.0201	6839.5791	6787.4611	6748.3731	6793.045
20.0	16532.4571	6789.3231	6727.8981	6690.6711	6740.928
20.5	16474.7561	6735.3441	6673.9191	6634.8311	6688.810
21.0	16418.9151	6677.6421	6618.0791	6582.7141	6632.970
21.5	16353.7681	6619.9401	6560.3771	6530.5961	6571.545
22.0	16290.4831	6562.2391	6502.6761	6474.7561	6510.121
22.5	16236.5041	6500.8141	6441.2511	6417.0541	6454.281
23.0	16182.5251	6437.5291	6372.3821	6350.0461	6387.272
23.5	16128.5461	6366.7981	6305.3731	6290.4831	6327.709
24.0	16061.5371	6303.5121	6232.7811	6230.9201	6262.562
24.5	16003.8361	6240.2261	6158.3271	6163.9111	6201.138
25.0	15940.5501	6162.0501	6078.2891	6102.4871	6130.407
25.5	15867.9571	6096.9031	6007.5581	6033.6171	6063.399
26.0	15784.1971	6031.7561	5938.6881	5964.7471	5988.945
26.5	15692.9911	5946.1341	5871.6801	5892.1551	5916.352

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CANDELA TABULATION - (Cont.)

27.0	15609.23115862.37315799.08815821.42415843.760
27.5	15527.33115774.89015732.07915750.69315773.029
28.0	15449.15515687.40715659.48715683.68415702.298
28.5	15382.14715599.92415583.17215611.09215625.983
29.0	15307.69315514.30215504.99515525.47015551.529
29.5	15233.23915428.68015426.81915447.29415484.521
30.0	15158.78515333.75215343.05815365.39515406.344
30.5	15084.33215246.26915266.74315281.63415335.613
31.0	15004.29415149.47915190.42815203.45815257.437
31.5	14914.94915054.55015110.39015123.42015179.260
32.0	14821.88214968.92815026.63015041.52115097.361
32.5	14725.09214877.72214946.59214968.92815011.739
33.0	14624.58014788.37814874.00014888.89014933.563
33.5	14527.79014693.44914790.23914806.99114862.832
34.0	14429.13914592.93714699.03314721.37014780.933
34.5	14336.07114494.28614605.96614635.74814695.311
35.0	14250.45014391.91214503.59214551.98714604.105
35.5	14170.41214289.53814386.32814464.50414522.206
36.0	14073.62214179.71814291.39914377.02114436.584
36.5	13973.10914069.89914200.19314285.81514345.378
37.0	13857.70613960.08014099.68114196.47114256.034
37.5	13732.99613852.12213997.30714107.12614161.105
38.0	13613.87013746.02513906.10114014.05914062.454
38.5	13492.88313638.06713818.61813917.26913954.496
39.0	13386.78613530.10913716.24413813.03413853.983
39.5	13286.27313414.70613602.70213703.21413755.332
40.0	13182.03813293.71913489.16013598.97913652.958
40.5	13074.08013172.73113381.20213492.88313556.168
41.0	12973.56813051.74413271.38313377.47913457.517
41.5	12850.71912928.89513154.11813271.38313343.975
42.0	12714.84112807.90813034.99213157.84113228.572
42.5	12567.79512685.05912914.00513044.29913115.030
43.0	12424.47112560.34912798.60112930.75713005.210
43.5	12290.45412428.19412679.47512815.35312897.252
44.0	12171.32812303.48412571.51712703.67312796.740
44.5	12072.67712180.63512456.11412603.16012688.782
45.0	11970.30312050.34112340.71112498.92512564.072
45.5	11858.62211923.77012216.00112374.21512450.530
46.0	11726.46711793.47512076.40012236.47512327.681
46.5	11590.58911657.59711929.35412122.93312210.417
47.0	11447.26511527.30311804.64412005.66912096.875
47.5	11318.83311402.59311679.93311882.82011975.887
48.0	11201.56811281.60611547.77811765.55511851.177
48.5	11086.16511171.78711417.48411650.15211702.270
49.0	10963.31611021.01811294.63511531.02611512.413
49.5	10831.16110860.94211173.64811411.90011292.774
50.0	10665.50110726.92511047.07711283.46711028.463
50.5	10514.73210609.66110911.19811145.72810706.451
51.0	10373.27010470.06010775.32010978.20710336.043
51.5	10250.42110334.18210633.85810773.4599980.526
52.0	10133.15710187.13610499.84110535.2079693.879
52.5	9999.140 10045.67310363.96310226.2249422.123
53.0	9844.648 9893.043 10224.3629872.568 9014.489
53.5	9686.434 9751.581 10090.3469504.022 8465.392
54.0	9539.388 9623.148 9948.884 9193.178 7838.119
54.5	9416.539 9481.686 9805.560 8925.144 7318.805

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CANDELA TABULATION - (Cont.)

55.0	9293.690	9316.027	9667.821	8590.102	6953.981
55.5	9137.338	9163.396	9526.358	8113.598	6676.641
56.0	8967.955	9040.548	9388.619	7519.830	6406.746
56.5	8826.493	8910.254	9249.018	6967.011	6069.843
57.0	8707.367	8765.069	9101.972	6576.128	5729.217
57.5	8573.350	8603.132	8940.035	6296.927	5446.292
58.0	8418.859	8444.918	8766.930	6069.843	5271.326
58.5	8245.754	8294.149	8554.737	5792.502	5161.507
59.0	8106.153	8147.103	8310.901	5412.788	5070.301
59.5	7970.275	7988.888	8033.561	5098.221	4941.868
60.0	7795.309	7823.229	7705.964	4912.087	4770.625
60.5	7627.788	7681.767	7411.872	4802.267	4552.847
61.0	7477.019	7527.275	7134.531	4709.200	4282.952
61.5	7344.863	7367.199	6812.519	4573.322	3998.167
62.0	7186.649	7197.817	6462.586	4398.356	3713.381
62.5	6991.208	7026.574	6010.280	4169.411	3335.528
63.0	6819.964	6879.527	5500.271	3884.625	2767.818
63.5	6684.086	6734.343	5087.053	3609.146	2309.928
64.0	6518.427	6564.960	4805.990	3333.667	2038.172
64.5	6360.212	6416.053	4591.936	2924.171	1788.938
65.0	6211.305	6263.422	4344.377	2388.104	1408.293
65.5	6014.002	6090.318	4033.532	2017.697	1220.297
66.0	5846.481	5930.242	3772.944	1791.544	1178.231
66.5	5701.297	5785.057	3616.591	1458.363	1158.873
67.0	5543.082	5623.120	3493.743	1222.158	1141.935
67.5	5377.423	5463.045	3365.310	1136.723	1125.182
68.0	5206.179	5317.860	3199.650	1113.270	1109.547
68.5	5057.272	5146.616	2965.121	1094.656	1094.284
69.0	4912.087	4992.125	2697.087	1077.346	1079.021
69.5	4750.150	4833.910	2468.142	1061.152	1063.386
70.0	4591.936	4686.864	2153.575	1045.703	1047.937
70.5	4439.305	4519.343	1750.036	1029.882	1033.046
71.0	4305.289	4344.377	1490.006	1015.177	1018.155
71.5	4150.797	4161.965	1293.820	1000.472	1001.403
72.0	3996.306	3968.385	1069.342	983.906	985.209
72.5	3843.675	3720.827	958.406	968.085	967.899
73.0	3700.352	3462.100	929.555	952.077	949.099
73.5	3557.028	3240.600	910.383	934.953	930.114
74.0	3413.705	3006.071	891.584	916.526	909.267
74.5	3272.243	2749.205	873.901	896.609	888.606
75.0	3114.028	2421.609	856.032	876.321	867.014
75.5	2968.844	2192.663	838.908	855.474	844.492
76.0	2823.659	2025.142	822.342	833.882	821.597
76.5	2669.167	1841.986	804.473	811.732	797.958
77.0	2514.676	1647.662	786.604	789.024	774.505
77.5	2358.323	1521.090	767.432	766.129	750.308
78.0	2183.356	1366.785	747.516	742.490	726.110
78.5	2038.172	1173.577	726.110	717.734	701.168
79.0	1909.739	1024.484	704.519	693.537	676.785
79.5	1776.467	808.754	682.369	669.339	651.843
80.0	1641.892	695.212	659.474	644.397	626.342
80.5	1507.130	588.929	636.580	618.711	601.214
81.0	1370.321	552.819	612.754	593.210	578.506
81.5	1235.374	530.297	587.812	568.082	556.728
82.0	1113.828	506.844	561.754	542.582	527.691
82.5	1005.312	483.205	535.695	517.267	502.004

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CANDELA TABULATION - (Cont.)

83.0	888.606	460.124	507.961	491.209	477.062
83.5	774.691	436.113	480.413	465.522	451.562
84.0	664.686	411.543	451.934	438.719	425.317
84.5	561.940	385.484	424.014	410.799	397.955
85.0	459.752	359.239	395.163	380.645	367.988
85.5	406.704	331.319	364.265	348.257	337.276
86.0	348.444	302.468	331.691	314.195	303.957
86.5	263.752	272.315	295.209	277.340	270.267
87.0	219.452	240.858	256.493	238.810	233.599
87.5	191.532	208.098	215.171	199.722	194.138
88.0	163.798	172.174	173.850	156.725	149.838
88.5	133.458	133.458	131.783	110.192	101.629
89.0	97.534	96.231	89.717	71.476	65.705
89.5	61.052	64.589	57.702	48.953	47.464
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-HA-HP-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-HA-HP-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-HA-HP-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	6548.67	N.A.	14.00
0-30	13967.19	N.A.	29.80
0-40	23015.06	N.A.	49.10
0-60	40416.04	N.A.	86.20
0-80	46480.01	N.A.	99.10
0-90	46902.22	N.A.	100.00
10-90	45213.52	N.A.	96.40
20-40	16466.39	N.A.	35.10
20-50	25934.39	N.A.	55.30
40-70	21778.00	N.A.	46.40
60-80	6063.97	N.A.	12.90
70-80	1686.95	N.A.	3.60
80-90	422.21	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	46902.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1688.7
10-20	4859.97
20-30	7418.52
30-40	9047.87
40-50	9468.00
50-60	7932.98
60-70	4377.01
70-80	1686.95
80-90	422.21
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-HA-HP-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-HA-HP-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

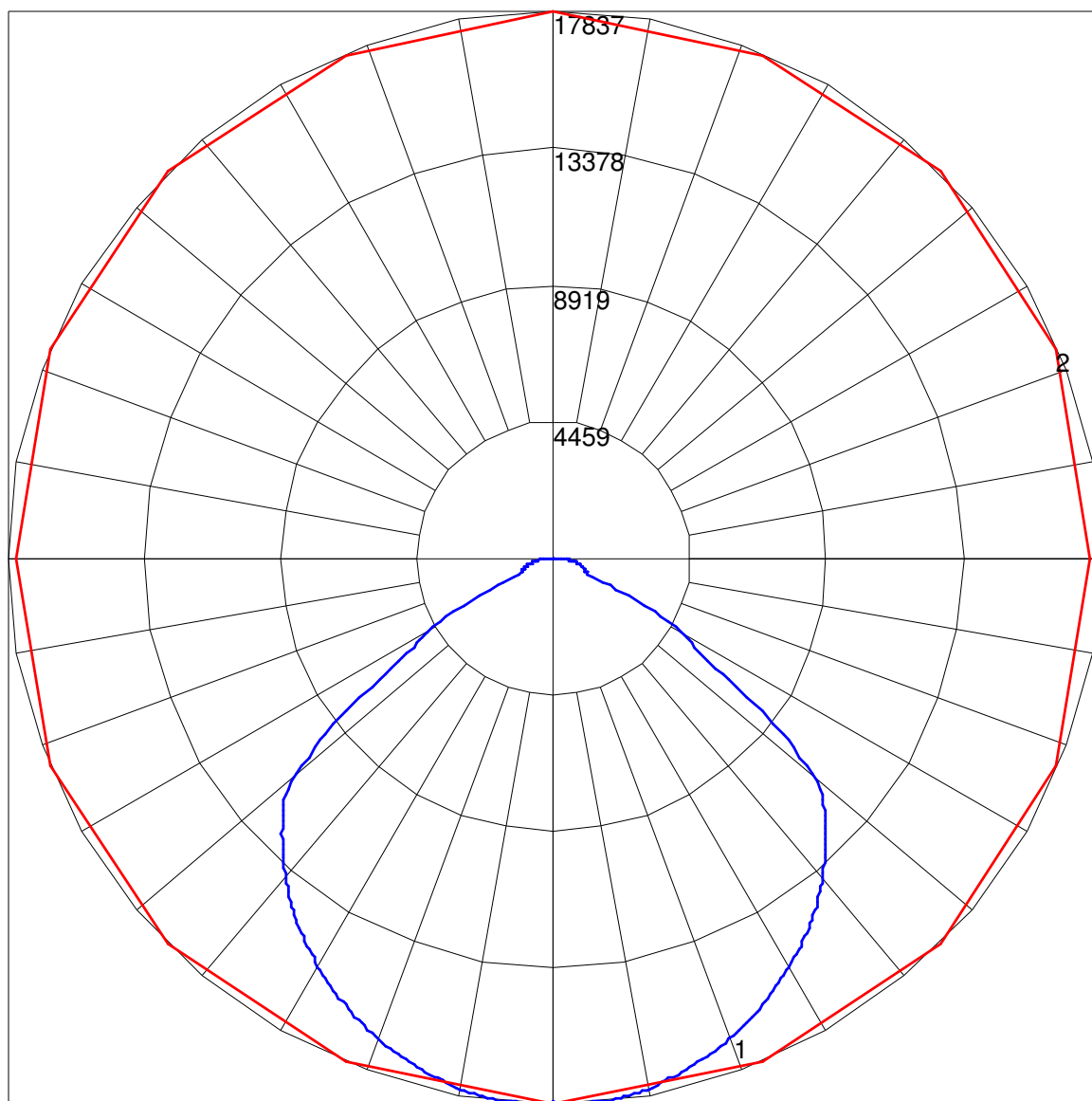
4H	2H	26.0	27.3	26.4	27.7	28.1	24.0	25.3	24.4	25.7	26.0
	3H	27.9	29.0	28.3	29.4	29.8	24.2	25.3	24.6	25.7	26.1
	4H	28.5	29.5	28.9	29.9	30.3	24.3	25.3	24.8	25.7	26.1
	6H	28.8	29.7	29.3	30.1	30.6	24.5	25.4	25.0	25.8	26.3
	8H	28.9	29.7	29.4	30.1	30.6	24.6	25.4	25.1	25.8	26.3
	12H	28.9	29.6	29.4	30.1	30.6	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 = 17837.259 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.)