



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L480-835-ND-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 14629546.01  
[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-L480-835-ND-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	45480
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	338
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.22
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	40709	40073	40342
55	37501	37104	36414
65	33486	33178	30435
75	27988	26669	21708
85	20639	16411	13365

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GS-4-L480-835-ND-DIM-UNV\_.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	20012.210	20012.210	20012.210	20012.210	20012.210
0.5	19834.411	20012.210	20051.721	20012.210	20051.721
1.0	19814.656	19992.454	20051.721	19992.454	20051.721
1.5	19814.656	19992.454	20031.965	19992.454	20031.965
2.0	19794.900	19972.699	20012.210	19972.699	20012.210
2.5	19794.900	19952.944	20012.210	19952.944	19992.454
3.0	19775.145	19933.188	19992.454	19933.188	19972.699
3.5	19743.536	19913.433	19952.944	19893.677	19913.433
4.0	19721.806	19893.677	19933.188	19873.922	19913.433
4.5	19698.099	19873.922	19913.433	19834.411	19873.922
5.0	19670.442	19834.411	19893.677	19814.656	19834.411
5.5	19636.857	19814.656	19854.167	19775.145	19794.900
6.0	19599.322	19775.145	19814.656	19731.683	19775.145
6.5	19559.811	19727.732	19775.145	19686.246	19721.806
7.0	19512.398	19680.319	19721.806	19640.808	19674.393
7.5	19455.108	19626.980	19664.515	19585.493	19625.004
8.0	19403.744	19569.689	19605.249	19528.203	19567.713
8.5	19346.453	19506.472	19542.031	19468.937	19508.447
9.0	19281.260	19439.303	19472.888	19405.719	19445.230
9.5	19212.116	19366.209	19405.719	19338.551	19376.086
10.0	19133.095	19291.138	19328.673	19269.407	19304.967
10.5	19054.073	19208.165	19251.627	19194.337	19225.945
11.0	18969.125	19125.193	19168.655	19115.315	19140.997
11.5	18882.201	19038.269	19085.682	19032.342	19060.000
12.0	18791.327	18947.394	18992.832	18943.443	18967.150
12.5	18702.427	18850.593	18898.006	18854.544	18874.299
13.0	18611.553	18753.791	18797.253	18755.767	18777.498
13.5	18514.751	18653.039	18694.525	18647.112	18672.794
14.0	18412.023	18544.384	18589.822	18532.531	18570.066
14.5	18307.320	18433.754	18481.167	18431.779	18459.436
15.0	18196.689	18325.099	18368.561	18323.124	18348.806
15.5	18082.108	18212.494	18253.980	18204.592	18236.200
16.0	17967.527	18095.937	18131.497	18084.084	18115.692
16.5	17845.044	17981.356	18010.989	17965.551	17989.258
17.0	17718.609	17860.848	17900.359	17841.092	17860.848
17.5	17592.175	17738.364	17771.949	17714.658	17730.462
18.0	17467.716	17611.930	17639.587	17586.248	17600.077
18.5	17337.330	17487.471	17513.153	17455.862	17465.740
19.0	17208.920	17361.036	17382.767	17323.501	17329.428
19.5	17078.534	17232.626	17254.357	17187.189	17197.067
20.0	16950.124	17100.265	17121.996	17052.852	17064.706
20.5	16819.739	16969.880	16989.635	16916.540	16928.393
21.0	16685.402	16839.494	16859.250	16780.228	16794.057
21.5	16558.968	16705.158	16724.913	16643.916	16655.769
22.0	16424.631	16574.772	16590.576	16507.604	16521.432
22.5	16296.221	16444.386	16454.264	16371.291	16385.120
23.0	16165.835	16310.050	16315.976	16231.028	16242.881
23.5	16035.450	16177.689	16173.738	16086.814	16100.643
24.0	15907.040	16049.279	16031.499	15942.599	15960.379
24.5	15786.532	15912.966	15883.333	15798.385	15816.165
25.0	15658.122	15778.630	15737.143	15654.171	15677.877
25.5	15525.761	15642.318	15590.954	15513.908	15537.614
26.0	15397.351	15506.005	15444.764	15373.644	15403.277
26.5	15268.941	15367.718	15298.574	15231.405	15266.965

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GS-4-L480-835-ND-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

27.0	15140.53115243.25915152.38415091.14215132.629
27.5	15010.14515124.72615008.17014948.90314998.292
28.0	14879.76014966.68314865.93114808.64014863.955
28.5	14751.34914830.37114723.69214670.35214731.594
29.0	14609.11114707.88814583.42914532.06514599.233
29.5	14478.72514567.62414445.14114397.72814466.872
30.0	14348.34014427.36114308.82914263.39114328.584
30.5	14221.90514295.00014174.49214133.00614194.247
31.0	14093.49514162.63914038.18014002.62014059.911
31.5	13969.03614030.27813901.86813870.25913923.599
32.0	13846.55313897.91713767.53113739.87413789.262
32.5	13722.09413769.50713633.19413611.46313658.876
33.0	13599.61013639.12113498.85813479.10213528.491
33.5	13479.10213512.68713364.52113348.71713402.056
34.0	13356.61913382.30113232.16013216.35613275.622
34.5	13234.13613251.91513083.99513082.01913147.212
35.0	13109.67713123.50512955.58512947.68213018.802
35.5	12987.19312995.09512829.15012813.34612890.392
36.0	12862.73412866.68512694.81312680.98512760.006
36.5	12738.27512734.32412562.45212546.64812631.596
37.0	12615.79212603.93912430.09112412.31112499.235
37.5	12509.11312469.60212293.77912277.97512368.849
38.0	12390.58012337.24112161.41812143.63812238.464
38.5	12230.56212202.90412029.05712011.27712110.054
39.0	12098.20112066.59211902.62211878.91611979.668
39.5	11965.84011932.25511778.16311746.55511847.307
40.0	11829.52711795.94311635.92511614.19411714.946
40.5	11695.19111661.60711497.63711481.83211582.585
41.0	11560.85411529.24511367.25111349.47111450.224
41.5	11426.51711392.93311236.86611215.13511315.887
42.0	11290.20511258.59711104.50511080.79811181.551
42.5	11157.84411124.26010976.09510946.46111051.165
43.0	11023.50710989.92310847.68410814.10010922.755
43.5	10891.14610855.58710717.29910677.78810792.369
44.0	10758.78510723.22610590.86410543.45110660.008
44.5	10626.42410582.96210460.47910411.09010531.598
45.0	10496.03910440.72310332.06910276.75410401.213
45.5	10365.65310314.28910203.65910142.41710264.900
46.0	10233.29210181.92810075.24910008.08010132.539
46.5	10106.85710035.7389944.863 9873.744 9996.227
47.0	9976.472 9913.255 9816.453 9739.407 9859.915
47.5	9844.111 9788.796 9686.068 9607.046 9723.603
48.0	9713.725 9656.434 9557.658 9472.709 9583.340
48.5	9583.340 9522.098 9427.272 9340.348 9445.052
49.0	9452.954 9389.737 9298.862 9206.012 9308.740
49.5	9322.568 9257.376 9170.452 9077.602 9168.476
50.0	9190.207 9123.039 9042.042 8947.216 9030.189
50.5	9057.846 8988.702 8915.607 8810.904 8891.901
51.0	8923.510 8856.341 8787.197 8676.567 8751.638
51.5	8791.148 8723.980 8660.763 8548.157 8613.350
52.0	8656.812 8593.595 8532.353 8415.796 8471.111
52.5	8518.524 8461.233 8405.918 8283.435 8328.872
53.0	8382.212 8328.872 8277.508 8153.049 8186.633
53.5	8247.875 8196.511 8149.098 8022.664 8044.395
54.0	8113.539 8066.126 8020.688 7892.278 7902.156
54.5	7979.202 7935.740 7890.303 7757.942 7759.917

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GS-4-L480-835-ND-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

55.0	7842.890	7805.354	7759.917	7625.580	7615.703
55.5	7710.529	7672.993	7631.507	7489.268	7473.464
56.0	7576.192	7540.632	7499.146	7354.932	7331.225
56.5	7441.855	7408.271	7358.883	7218.619	7188.986
57.0	7307.519	7277.886	7220.595	7082.307	7044.772
57.5	7175.158	7145.524	7100.087	6944.019	6900.558
58.0	7040.821	7013.163	6971.677	6805.732	6758.319
58.5	6906.484	6880.802	6839.316	6665.468	6612.129
59.0	6772.148	6746.466	6706.955	6523.230	6467.915
59.5	6637.811	6614.104	6574.594	6382.966	6325.676
60.0	6505.450	6479.768	6440.257	6240.728	6201.217
60.5	6371.113	6345.431	6309.871	6100.464	6045.149
61.0	6236.777	6211.095	6179.486	5960.201	5879.204
61.5	6102.440	6078.733	6045.149	5817.962	5729.063
62.0	5970.079	5942.421	5910.813	5675.723	5580.898
62.5	5833.767	5808.085	5776.476	5535.460	5430.757
63.0	5699.430	5675.723	5644.115	5393.221	5282.591
63.5	5563.118	5541.387	5513.729	5254.934	5132.450
64.0	5426.806	5409.026	5381.368	5114.670	4984.285
64.5	5292.469	5276.665	5247.032	4976.383	4836.119
65.0	5160.108	5144.303	5112.695	4836.119	4689.930
65.5	5027.747	5011.942	4982.309	4697.832	4545.715
66.0	4895.386	4879.581	4849.948	4559.544	4401.501
66.5	4763.024	4751.171	4717.587	4421.256	4257.286
67.0	4630.663	4620.786	4585.226	4271.115	4115.048
67.5	4500.278	4490.400	4452.865	4138.754	3974.784
68.0	4369.892	4360.015	4318.528	4006.393	3834.521
68.5	4241.482	4231.604	4186.167	3870.081	3696.233
69.0	4113.072	4101.219	4051.830	3731.793	3557.946
69.5	3986.638	3974.784	3919.469	3595.481	3423.609
70.0	3860.203	3846.374	3787.108	3459.169	3289.272
70.5	3735.744	3717.964	3654.747	3324.832	3156.911
71.0	3611.285	3589.554	3524.362	3190.495	3026.526
71.5	3486.826	3465.095	3393.976	3060.110	2896.140
72.0	3364.343	3338.661	3263.590	2929.724	2769.706
72.5	3241.859	3214.202	3135.180	2801.314	2645.247
73.0	3121.352	3089.743	3010.721	2674.880	2520.788
73.5	3000.844	2967.260	2884.287	2550.421	2400.280
74.0	2878.360	2844.776	2759.828	2429.913	2279.772
74.5	2761.803	2724.268	2637.345	2309.405	2163.215
75.0	2641.296	2605.736	2516.837	2190.873	2048.634
75.5	2524.739	2487.204	2394.353	2074.316	1936.028
76.0	2410.158	2372.622	2275.821	1961.710	1829.349
76.5	2295.576	2258.041	2159.264	1851.080	1722.670
77.0	2182.971	2145.435	2042.707	1744.401	1614.015
77.5	2072.340	2036.781	1930.102	1639.697	1509.312
78.0	1963.686	1928.126	1817.496	1536.969	1418.437
78.5	1857.007	1821.447	1706.866	1438.192	1329.538
79.0	1752.303	1716.743	1600.187	1341.391	1240.638
79.5	1649.575	1614.015	1493.507	1246.565	1153.715
80.0	1548.823	1513.263	1388.804	1155.690	1070.742
80.5	1450.046	1416.461	1288.051	1074.693	989.745
81.0	1355.220	1319.660	1187.299	997.647	914.675
81.5	1262.369	1224.834	1090.498	906.772	843.555
82.0	1169.519	1133.959	999.623	827.751	774.411
82.5	1078.644	1043.085	910.723	754.656	707.243

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GS-4-L480-835-ND-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

83.0	989.745	954.185	825.775	685.512	644.026
83.5	904.797	869.237	742.803	620.319	584.760
84.0	819.849	786.265	663.781	559.078	529.444
84.5	736.876	703.292	590.686	499.811	476.105
85.0	655.879	624.270	521.542	446.472	424.741
85.5	574.882	547.224	456.350	393.132	373.377
86.0	497.836	474.129	397.083	341.768	322.013
86.5	418.814	401.034	337.817	292.380	278.551
87.0	343.744	331.891	282.502	252.869	242.991
87.5	272.624	268.673	233.114	217.309	211.383
88.0	207.432	209.407	193.603	179.774	177.799
88.5	148.165	158.043	154.092	152.117	150.141
89.0	92.850	114.581	124.459	132.361	132.361
89.5	55.315	80.997	100.752	114.581	114.581
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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : GS-4-L480-835-ND-DIM-UNV\_.IES

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-ND-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-ND-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-ND-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	7020.28	N.A.	15.40
0-30	14251.35	N.A.	31.30
0-40	22397.97	N.A.	49.20
0-60	37310.33	N.A.	82.00
0-80	44842.48	N.A.	98.60
0-90	45479.66	N.A.	100.00
10-90	43604.5	N.A.	95.90
20-40	15377.69	N.A.	33.80
20-50	23384.38	N.A.	51.40
40-70	19868.1	N.A.	43.70
60-80	7532.14	N.A.	16.60
70-80	2576.41	N.A.	5.70
80-90	637.19	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	45479.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1875.16
10-20	5145.12
20-30	7231.07
30-40	8146.62
40-50	8006.69
50-60	6905.67
60-70	4955.73
70-80	2576.41
80-90	637.19
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-ND-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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	43	36	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	34	29	39	33	29	39	33	29	27

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GS-4-L480-835-ND-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	24.6	26.2	25.0	26.5	26.8	UGR Viewed Endwise			
	3H	26.3	27.7	26.6	28.0	28.4	24.4	26.0	24.7	26.3
	4H	26.9	28.2	27.3	28.6	28.9	25.8	27.3	26.2	27.6
	6H	27.3	28.5	27.7	28.9	29.3	26.3	27.6	26.7	28.0
	8H	27.4	28.6	27.8	29.0	29.4	26.5	27.8	27.0	28.1
	12H	27.5	28.6	27.9	29.0	29.5	26.6	27.8	27.0	28.2

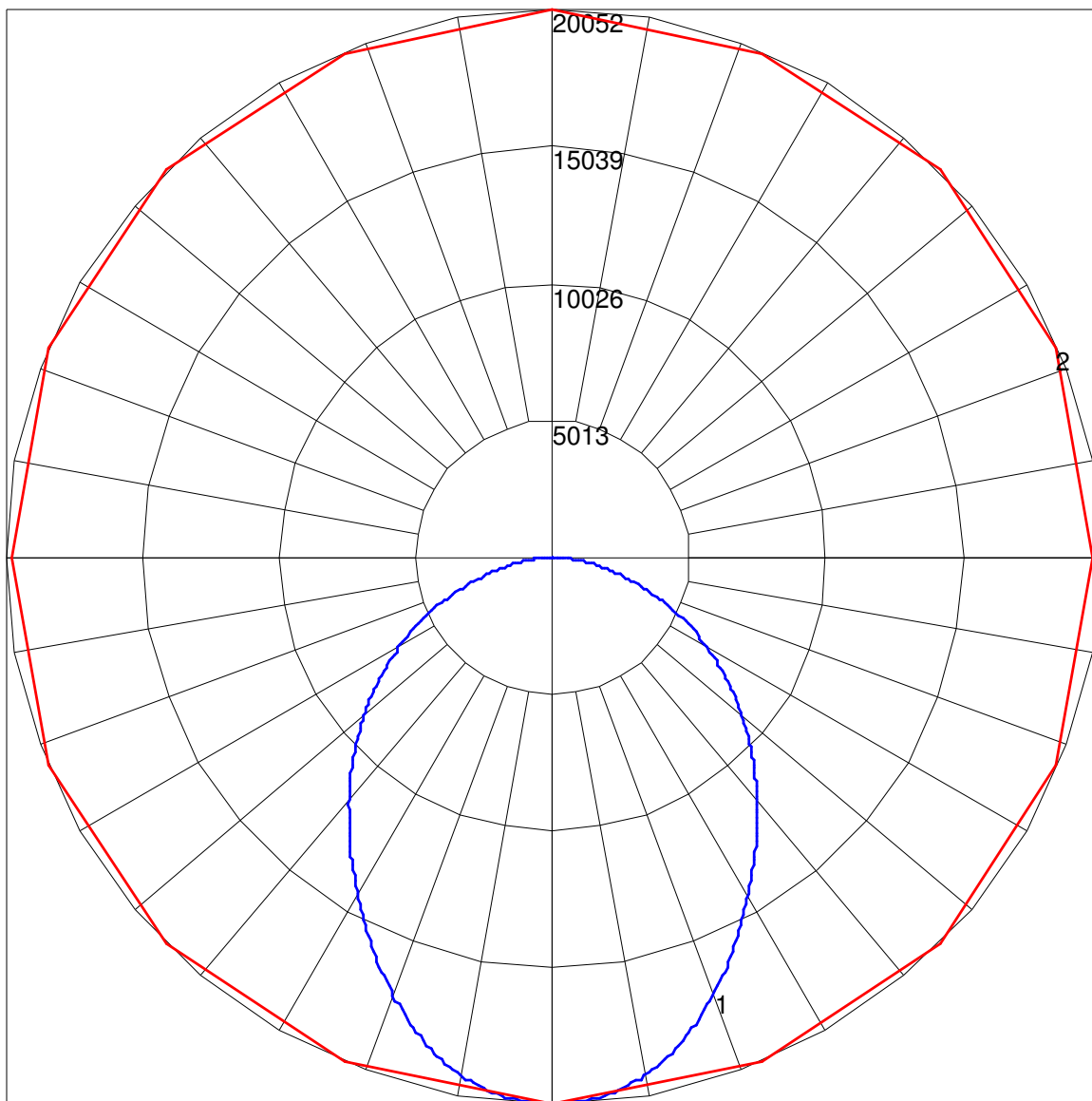
4H	2H	25.2	26.5	25.6	26.9	27.2	25.0	26.3	25.4	26.7
	3H	27.0	28.2	27.5	28.6	29.0	26.7	27.8	27.1	28.2
	4H	27.8	28.8	28.2	29.2	29.6	27.2	28.2	27.6	28.6
	6H	28.3	29.2	28.8	29.6	30.1	27.6	28.4	28.0	28.9
	8H	28.5	29.3	28.9	29.8	30.2	27.6	28.5	28.1	28.9
	12H	28.6	29.4	29.1	29.8	30.3	27.7	28.4	28.2	28.9

8H	4H	28.0	28.8	28.5	29.3	29.7	27.5	28.3	28.0	28.8
	6H	28.7	29.3	29.2	29.8	30.3	27.9	28.6	28.4	29.1
	8H	28.9	29.5	29.4	30.0	30.5	28.1	28.7	28.6	29.2
	12H	29.1	29.6	29.6	30.1	30.7	28.2	28.7	28.7	29.2

12H	4H	28.0	28.8	28.5	29.2	29.7	27.5	28.3	28.0	28.7
	6H	28.7	29.3	29.2	29.8	30.3	28.0	28.6	28.5	29.1
	8H	29.0	29.5	29.5	30.0	30.6	28.2	28.7	28.7	29.2

Maximum UGR = 30.7

POLAR GRAPH



Maximum Candela = 20051.721 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.)