



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L480-835-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-L480-835-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	45005
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	338
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	42453	41250	36071
55	32057	30064	25398
65	24907	22523	20959
75	23988	19592	21099
85	21445	14545	16161

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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	20346.434	20346.434	20346.434	20346.434	20346.434
0.5	20168.650	20326.680	20385.942	20346.434	20366.188
1.0	20168.650	20326.680	20385.942	20326.680	20366.188
1.5	20168.650	20326.680	20385.942	20326.680	20366.188
2.0	20148.896	20326.680	20366.188	20306.927	20346.434
2.5	20148.896	20306.927	20366.188	20306.927	20326.680
3.0	20129.142	20287.173	20346.434	20287.173	20306.927
3.5	20129.142	20287.173	20326.680	20267.419	20306.927
4.0	20109.388	20267.419	20306.927	20247.665	20287.173
4.5	20089.635	20247.665	20287.173	20227.911	20267.419
5.0	20089.635	20227.911	20287.173	20227.911	20247.665
5.5	20069.881	20208.158	20267.419	20208.158	20227.911
6.0	20050.127	20188.404	20247.665	20188.404	20208.158
6.5	20030.373	20188.404	20227.911	20168.650	20188.404
7.0	20010.619	20148.896	20208.158	20148.896	20168.650
7.5	19971.112	20129.142	20188.404	20129.142	20148.896
8.0	19951.358	20109.388	20168.650	20109.388	20129.142
8.5	19931.604	20089.635	20148.896	20089.635	20089.635
9.0	19892.096	20050.127	20109.388	20069.881	20069.881
9.5	19872.343	20030.373	20089.635	20030.373	20050.127
10.0	19832.835	20010.619	20069.881	20010.619	20010.619
10.5	19793.327	19971.112	20030.373	19971.112	19990.866
11.0	19773.574	19931.604	19990.866	19931.604	19951.358
11.5	19736.041	19892.096	19951.358	19892.096	19911.850
12.0	19700.484	19852.589	19911.850	19852.589	19872.343
12.5	19662.952	19813.081	19872.343	19813.081	19832.835
13.0	19621.469	19773.574	19832.835	19773.574	19793.327
13.5	19574.060	19720.238	19793.327	19724.189	19753.820
14.0	19526.651	19672.829	19732.091	19678.755	19708.386
14.5	19475.291	19623.444	19680.731	19631.346	19664.928
15.0	19421.956	19576.035	19629.371	19579.986	19619.494
15.5	19364.669	19522.700	19574.060	19528.626	19574.060
16.0	19307.383	19467.389	19514.798	19477.266	19522.700
16.5	19248.122	19410.103	19457.512	19423.931	19469.365
17.0	19186.885	19348.866	19396.276	19366.645	19412.079
17.5	19121.697	19283.679	19337.014	19309.359	19352.817
18.0	19054.534	19218.491	19277.753	19248.122	19291.580
18.5	18991.322	19151.328	19214.540	19184.910	19222.442
19.0	18924.159	19084.165	19151.328	19119.722	19157.254
19.5	18858.972	19013.051	19086.141	19052.559	19088.116
20.0	18789.833	18939.962	19011.076	18987.371	19022.928
20.5	18714.769	18860.947	18930.085	18922.184	18949.839
21.0	18637.729	18776.006	18841.193	18853.046	18878.725
21.5	18558.714	18691.064	18766.129	18777.981	18803.661
22.0	18475.748	18606.123	18687.113	18702.916	18728.596
22.5	18386.855	18515.255	18598.221	18621.926	18647.606
23.0	18295.988	18424.388	18505.378	18536.984	18560.689
23.5	18201.169	18331.545	18412.535	18448.092	18473.772
24.0	18100.425	18232.776	18313.766	18355.249	18384.880
24.5	18001.656	18132.031	18216.973	18258.456	18294.012
25.0	17898.936	18031.287	18120.179	18157.711	18199.194
25.5	17790.290	17922.641	18017.459	18053.016	18102.400
26.0	17683.619	17817.945	17914.739	17944.370	17997.705
26.5	17574.973	17705.349	17806.093	17835.724	17891.035

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CANDELA TABULATION - (Cont.)

27.0	17460.40117594.72717695.47217721.15217780.413
27.5	17343.85417480.15517580.90017604.60417665.841
28.0	17221.38017361.63217462.37717482.13017545.343
28.5	17098.90617239.15817337.92817357.68117418.918
29.0	16960.63017112.73417211.50317227.30617286.568
29.5	16828.27916982.35917081.12817092.98017148.291
30.0	16691.97816848.03316944.82716952.72817004.088
30.5	16549.75016711.73116802.59916804.57416850.008
31.0	16403.57216571.47916658.39616642.59316688.027
31.5	16255.41816429.25216506.29216472.71016516.169
32.0	16107.26516287.02416356.16316316.65516362.089
32.5	15951.20916132.94516198.13216148.74816192.206
33.0	15799.10515978.86516036.15115965.03715953.185
33.5	15639.09915816.88315866.26815779.35115733.917
34.0	15477.11815648.97615694.41015581.81315510.699
34.5	15317.11215479.09315516.62515372.42215279.580
35.0	15145.25415307.23515332.91515157.10615036.608
35.5	14973.39515131.42615141.30314931.91214779.808
36.0	14793.63614947.71514943.76514696.84214517.082
36.5	14609.92514758.07914736.34914449.91914244.479
37.0	14422.26414564.49114524.98414199.04613967.926
37.5	14230.65214366.95314307.69213936.32013685.446
38.0	14031.13814167.43914088.42413673.59413395.065
38.5	13827.67413962.00013861.25513402.96713104.684
39.0	13620.25913754.58513630.13613126.41312806.401
39.5	13406.91713545.19413393.09012847.88412510.094
40.0	13191.60113331.85313152.09312567.38012211.811
40.5	12970.35813116.53612905.17012282.92511909.578
41.0	12747.14012897.26912658.24812000.44511589.566
41.5	12525.89712674.05112407.37411714.01511261.653
42.0	12300.70412448.85712150.57411433.51110989.050
42.5	12075.51012221.68811897.72611172.76010716.447
43.0	11848.34111992.54411644.877110890.28110430.017
43.5	11621.17211759.44911392.02810590.02310139.636
44.0	11394.00311526.35411137.20410319.3959853.205
44.5	11168.81011289.30810882.37910046.7939576.652
45.0	10945.59111050.28710635.4579780.116 9300.098
45.5	10718.42310815.21610384.5839517.390 9029.471
46.0	10491.25410580.14610137.6609260.591 8768.721
46.5	10270.01110343.1009896.664 9011.693 8515.872
47.0	10046.79310110.0059653.692 8766.745 8268.949
47.5	9823.575 9878.885 9416.646 8525.749 8031.903
48.0	9604.307 9647.766 9181.575 8292.654 7802.759
48.5	9385.040 9422.572 8948.480 8065.485 7579.541
49.0	9165.772 9199.354 8721.311 7840.291 7366.199
49.5	8944.530 8976.136 8498.093 7624.974 7160.760
50.0	8727.238 8756.868 8276.850 7413.609 6963.221
50.5	8513.896 8539.576 8057.583 7206.193 6769.634
51.0	8302.530 8326.235 7846.217 7008.655 6583.948
51.5	8089.189 8116.845 7634.851 6803.216 6408.139
52.0	7883.749 7909.429 7431.387 6617.530 6234.305
52.5	7676.334 7705.965 7237.800 6441.721 6068.373
53.0	7472.870 7504.476 7052.114 6267.887 5908.367
53.5	7273.356 7304.963 6848.649 6098.004 5752.312
54.0	7079.769 7109.400 6651.111 5932.072 5602.183
54.5	6890.132 6917.788 6465.425 5772.066 5456.005

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55.0	6704.446	6728.151	6287.641	5616.011	5311.802
55.5	6518.761	6540.490	6111.832	5463.907	5173.525
56.0	6342.952	6358.755	5939.974	5315.753	5039.199
56.5	6169.118	6178.995	5772.066	5173.525	4908.824
57.0	5997.260	6003.186	5608.109	5033.273	4780.424
57.5	5833.303	5831.328	5448.103	4896.972	4655.975
58.0	5675.272	5665.395	5292.048	4764.621	4535.477
58.5	5519.217	5501.439	5137.969	4636.221	4418.929
59.0	5367.113	5343.408	4987.839	4509.797	4306.333
59.5	5216.984	5187.353	4841.661	4387.323	4195.711
60.0	5074.756	5035.249	4699.434	4270.776	4091.016
60.5	4934.504	4891.046	4561.157	4154.228	3990.272
61.0	4798.203	4748.818	4424.856	4043.607	3889.527
61.5	4663.877	4610.542	4292.505	3934.961	3794.709
62.0	4535.477	4478.191	4164.105	3832.241	3703.841
62.5	4411.028	4349.791	4039.656	3731.497	3616.924
63.0	4288.554	4229.293	3917.182	3632.727	3533.958
63.5	4164.105	4114.721	3800.635	3537.909	3452.968
64.0	4021.878	3984.345	3688.038	3447.042	3375.928
64.5	3931.010	3873.724	3577.417	3360.125	3300.863
65.0	3838.167	3767.053	3470.746	3275.183	3229.750
65.5	3733.472	3662.358	3368.026	3194.193	3160.611
66.0	3636.678	3547.786	3269.257	3113.202	3093.448
66.5	3539.884	3447.042	3172.463	3036.162	3028.261
67.0	3449.017	3350.248	3077.645	2961.098	2965.048
67.5	3360.125	3255.429	2988.753	2888.008	2901.836
68.0	3275.183	3164.562	2901.836	2816.895	2840.599
68.5	3192.217	3075.670	2816.895	2747.756	2779.362
69.0	3113.202	2988.753	2733.929	2678.618	2720.101
69.5	3038.137	2903.811	2654.913	2611.455	2660.840
70.0	2963.073	2820.845	2575.898	2546.267	2603.553
70.5	2889.984	2739.855	2500.834	2479.104	2544.292
71.0	2818.870	2660.840	2423.794	2413.917	2487.006
71.5	2747.756	2581.824	2350.705	2348.729	2427.744
72.0	2680.593	2502.809	2277.615	2283.542	2368.483
72.5	2611.455	2425.769	2198.600	2216.379	2307.246
73.0	2544.292	2348.729	2127.486	2151.191	2246.009
73.5	2479.104	2271.689	2060.323	2082.053	2184.772
74.0	2413.917	2194.649	1989.210	2014.890	2121.560
74.5	2334.901	2117.609	1916.121	1945.751	2056.373
75.0	2263.788	2040.570	1848.958	1876.613	1991.185
75.5	2190.699	1965.505	1781.795	1805.499	1922.047
76.0	2115.634	1888.465	1700.804	1736.361	1854.884
76.5	2040.570	1811.425	1627.715	1665.247	1783.770
77.0	1963.530	1736.361	1554.626	1594.133	1712.656
77.5	1886.490	1659.321	1481.536	1523.019	1639.567
78.0	1805.499	1584.256	1410.423	1449.930	1564.503
78.5	1722.533	1507.216	1337.334	1378.817	1489.438
79.0	1641.542	1432.152	1266.220	1307.703	1412.398
79.5	1560.552	1355.112	1191.155	1234.614	1335.358
80.0	1477.586	1280.048	1120.042	1163.500	1258.318
80.5	1394.620	1204.983	1048.928	1092.386	1179.303
81.0	1311.654	1129.918	977.814	1021.272	1102.263
81.5	1230.663	1056.829	906.700	952.134	1023.248
82.0	1149.672	985.716	837.562	882.996	946.208
82.5	1068.682	912.626	768.424	815.833	871.143

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CANDELA TABULATION - (Cont.)

83.0	989.666	835.587	703.236	748.670	796.079
83.5	910.651	772.374	640.024	683.482	724.965
84.0	833.611	711.138	576.812	618.295	651.876
84.5	756.571	641.999	517.550	557.058	582.738
85.0	681.507	580.762	462.239	495.821	513.599
85.5	608.418	521.501	406.929	438.535	450.387
86.0	533.353	460.264	355.569	383.224	385.199
86.5	462.239	401.003	308.160	323.963	327.913
87.0	391.126	341.741	260.750	268.652	270.627
87.5	321.987	282.480	215.317	217.292	217.292
88.0	252.849	229.144	173.834	169.883	169.883
88.5	185.686	181.735	136.301	130.375	124.449
89.0	130.375	140.252	104.695	96.794	90.868
89.5	88.892	104.695	75.065	69.138	69.138
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-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-L480-835-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-L480-835-MD-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7447.72	N.A.	16.50
0-30	15767.06	N.A.	35.00
0-40	25210.51	N.A.	56.00
0-60	38791.88	N.A.	86.20
0-80	44388.93	N.A.	98.60
0-90	45005.04	N.A.	100.00
10-90	43081.43	N.A.	95.70
20-40	17762.79	N.A.	39.50
20-50	25789.13	N.A.	57.30
40-70	17104.41	N.A.	38.00
60-80	5597.05	N.A.	12.40
70-80	2074.01	N.A.	4.60
80-90	616.11	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	45005.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1923.61
10-20	5524.12
20-30	8319.33
30-40	9443.46
40-50	8026.34
50-60	5555.03
60-70	3523.04
70-80	2074.00
80-90	616.11
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-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-L480-835-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

X=2H	Y=2H	23.2	24.7	23.6	25.0	25.4	22.0	23.5	22.3	23.8	24.1
	3H	24.7	26.0	25.0	26.3	26.7	23.5	24.9	23.9	25.2	25.6
	4H	25.3	26.6	25.7	26.9	27.3	24.2	25.5	24.6	25.9	26.2
	6H	25.9	27.0	26.3	27.4	27.8	24.8	26.0	25.2	26.3	26.7
	8H	26.0	27.2	26.5	27.5	27.9	25.0	26.1	25.4	26.5	26.9
	12H	26.2	27.2	26.6	27.6	28.1	25.1	26.2	25.6	26.6	27.0

UGR Viewed Endwise

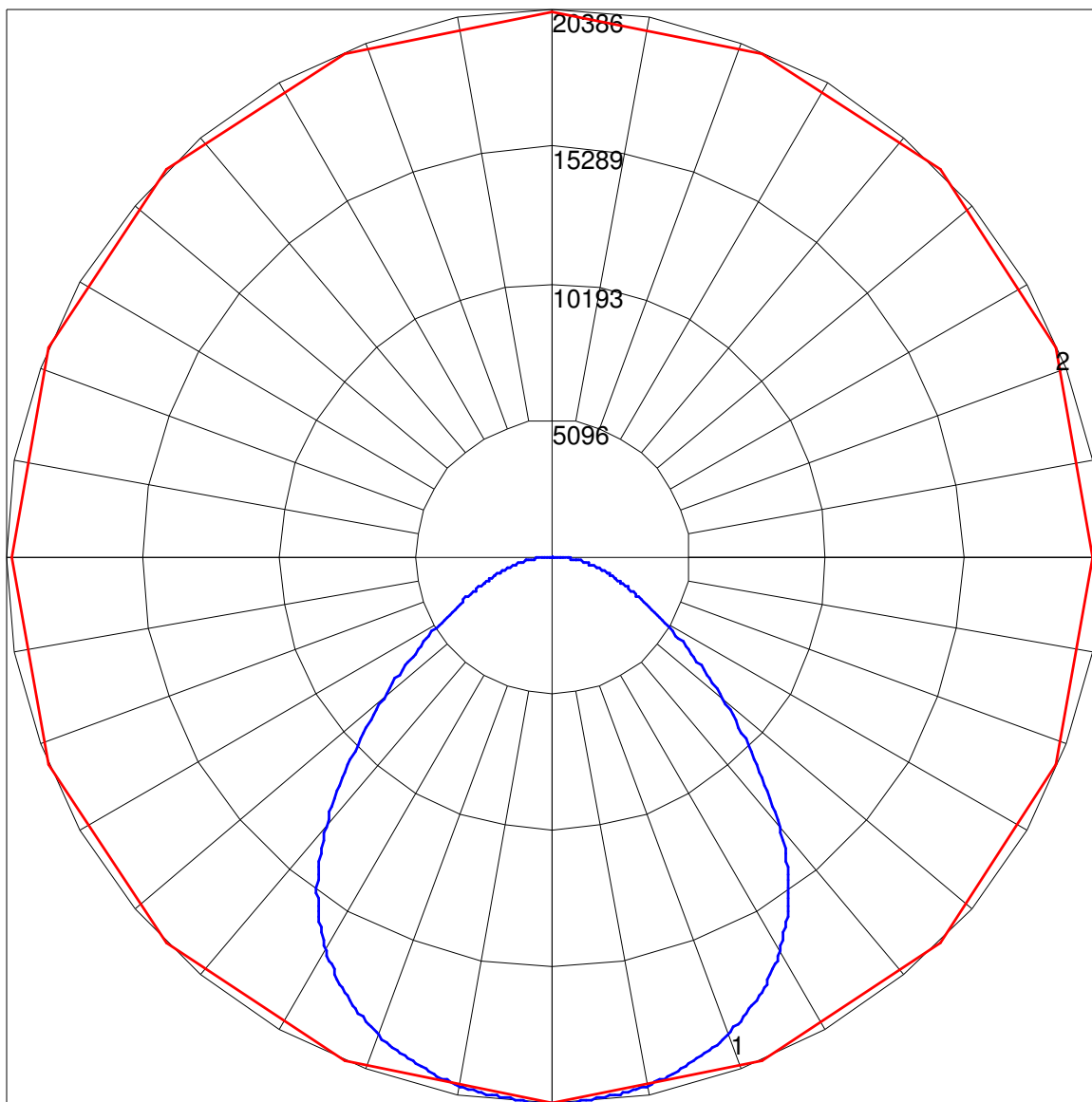
4H	2H	23.6	24.8	24.0	25.2	25.6	22.5	23.8	22.9	24.1	24.5
	3H	25.3	26.3	25.7	26.7	27.1	24.3	25.4	24.7	25.8	26.2
	4H	26.1	27.0	26.5	27.4	27.8	25.2	26.1	25.6	26.5	27.0
	6H	26.7	27.6	27.2	28.0	28.5	25.9	26.7	26.3	27.1	27.6
	8H	27.0	27.8	27.5	28.2	28.7	26.1	26.9	26.6	27.3	27.8
	12H	27.2	27.9	27.7	28.4	28.8	26.3	26.9	26.7	27.4	27.9

8H	4H	26.2	27.0	26.7	27.5	27.9	25.5	26.2	25.9	26.7	27.1
	6H	27.1	27.7	27.6	28.2	28.7	26.3	26.9	26.8	27.4	27.9
	8H	27.4	28.0	27.9	28.5	29.0	26.6	27.2	27.1	27.7	28.2
	12H	27.7	28.2	28.2	28.7	29.2	26.8	27.3	27.3	27.8	28.4

12H	4H	26.3	27.0	26.8	27.4	27.9	25.5	26.2	26.0	26.7	27.1
	6H	27.1	27.7	27.6	28.1	28.7	26.3	26.9	26.9	27.4	27.9
	8H	27.5	28.0	28.0	28.5	29.0	26.7	27.2	27.2	27.7	28.3

Maximum UGR = 29.2

POLAR GRAPH



Maximum Candela = 20385.942 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.)