

IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L480-840-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-L480-840-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	50793
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
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	50278	51834	52772
55	48124	50061	36008
65	43651	30531	9897
75	35734	9823	9949
85	15667	13466	12540

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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	19254.329	19254.329	19254.329	19254.329	19254.329
0.5	19016.472	19266.424	19308.754	19278.518	19316.817
1.0	19022.520	19268.440	19310.770	19278.518	19314.802
1.5	19030.583	19266.424	19312.786	19272.471	19308.754
2.0	19028.567	19270.455	19308.754	19274.487	19310.770
2.5	19024.535	19266.424	19310.770	19270.455	19304.723
3.0	19022.520	19258.361	19306.739	19272.471	19308.754
3.5	19016.472	19246.267	19304.723	19272.471	19308.754
4.0	19002.362	19240.219	19298.676	19280.534	19312.786
4.5	18984.221	19228.125	19290.613	19284.566	19316.817
5.0	18960.032	19214.015	19284.566	19280.534	19310.770
5.5	18941.890	19201.920	19276.503	19274.487	19302.707
6.0	18927.780	19189.826	19266.424	19260.377	19286.581
6.5	18907.623	19171.684	19256.345	19246.267	19264.408
7.0	18881.418	19151.527	19236.188	19226.109	19238.204
7.5	18859.245	19133.385	19218.046	19199.905	19209.983
8.0	18839.087	19111.212	19191.842	19171.684	19183.779
8.5	18829.009	19087.023	19167.653	19143.464	19163.621
9.0	18812.883	19060.819	19141.448	19115.244	19139.432
9.5	18790.710	19040.661	19119.275	19095.086	19121.291
10.0	18766.521	19022.520	19095.086	19070.897	19097.102
10.5	18744.348	19002.362	19066.866	19040.661	19068.882
11.0	18720.159	18982.205	19034.614	19006.394	19038.646
11.5	18700.002	18960.032	19002.362	18974.142	18992.284
12.0	18661.703	18931.811	18976.158	18931.811	18931.811
12.5	18619.372	18903.591	18939.874	18875.371	18883.434
13.0	18577.042	18871.339	18901.575	18818.930	18831.024
13.5	18532.695	18826.993	18863.276	18770.552	18772.568
14.0	18484.318	18784.663	18822.962	18716.127	18718.143
14.5	18419.814	18742.332	18774.584	18661.703	18671.781
15.0	18373.452	18700.002	18728.222	18607.278	18635.498
15.5	18347.247	18653.640	18673.797	18554.868	18599.215
16.0	18308.948	18601.230	18619.372	18508.506	18554.868
16.5	18268.634	18552.853	18554.868	18462.144	18514.554
17.0	18242.429	18502.459	18498.428	18415.782	18468.192
17.5	18200.098	18454.081	18437.956	18363.373	18423.845
18.0	18151.721	18397.641	18373.452	18314.996	18371.436
18.5	18099.312	18343.216	18317.011	18256.539	18302.901
19.0	18036.824	18290.807	18246.460	18196.067	18238.398
19.5	17968.289	18236.382	18179.941	18137.611	18185.988
20.0	17903.785	18181.957	18115.437	18075.123	18129.548
20.5	17841.297	18123.500	18056.981	18014.651	18073.107
21.0	17780.825	18061.013	17996.509	17958.210	18012.635
21.5	17710.274	17998.525	17934.021	17901.769	17946.116
22.0	17641.739	17936.037	17871.533	17841.297	17879.596
22.5	17583.283	17869.517	17805.014	17778.809	17819.124
23.0	17524.826	17800.982	17730.432	17706.243	17746.557
23.5	17466.370	17724.384	17657.865	17641.739	17682.054
24.0	17393.803	17655.849	17579.251	17577.235	17611.503
24.5	17331.315	17587.314	17498.622	17504.669	17544.984
25.0	17262.780	17502.653	17411.945	17438.150	17468.386
25.5	17184.167	17432.102	17335.347	17363.567	17395.819
26.0	17093.458	17361.551	17260.765	17288.985	17315.190
26.5	16994.687	17268.828	17188.198	17210.371	17236.576

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27.0	16903.97917178.11917109.58417133.77317157.962
27.5	16815.28617083.38017037.01817057.17517081.364
28.0	16730.62516988.64016958.40416984.60817004.766
28.5	16658.05916893.90016875.75916905.99516922.121
29.0	16577.42916801.17616791.09816813.27116841.491
29.5	16496.80016708.45216706.43716728.61016768.925
30.0	16416.17016605.65016615.72816639.91716684.264
30.5	16335.54116510.91016533.08316549.20916607.665
31.0	16248.86416406.09216450.43816464.54816523.004
31.5	16152.10916303.28916363.76116377.87116438.343
32.0	16051.32216210.56516273.05316289.17916349.651
32.5	15946.50316111.79416186.37616210.56516256.927
33.0	15837.65416015.03816107.76216123.88816172.266
33.5	15732.83515912.23616017.05416035.19616095.668
34.0	15626.00115803.38615918.28315942.47216006.976
34.5	15525.21415696.55215817.49615849.74815914.252
35.0	15432.49015585.68615706.63115759.04015815.480
35.5	15345.81315474.82115579.63915664.30015726.788
36.0	15240.99515355.89215476.83615569.56015634.064
36.5	15132.14515236.96415378.06515470.78915535.293
37.0	15007.16915118.03515269.21515374.03415438.537
37.5	14872.11515001.12215158.35015277.27815335.735
38.0	14743.10814886.22515059.57915176.49115228.901
38.5	14612.08514769.31214964.83915071.67315111.988
39.0	14497.18814652.40014853.97314958.79215003.138
39.5	14388.33814527.42414731.01314839.86314896.304
40.0	14275.45714396.40114608.05314726.98214785.438
40.5	14158.54414265.37814491.14114612.08514680.620
41.0	14049.69414134.35514372.21214487.10914573.786
41.5	13916.65514001.31614245.22114372.21214450.826
42.0	13769.50613870.29314116.21314249.25214325.850
42.5	13610.26313737.25513985.19014126.29214202.890
43.0	13455.05113602.20013860.21514003.33214083.961
43.5	13309.91813459.08313731.20713878.35613967.049
44.0	13180.91113324.02813614.29513757.41213858.199
44.5	13074.07713190.99013489.31913648.56213741.286
45.0	12963.21113049.88813364.34313535.68113606.232
45.5	12842.26712912.81813229.28913400.62613483.272
46.0	12699.14912771.71613078.10813251.46213350.233
46.5	12552.00112624.56712918.86513128.50213223.241
47.0	12396.78912483.46512783.81013001.51013100.281
47.5	12257.70312348.41112648.75612868.47112969.258
48.0	12130.71112217.38812505.63912741.48012834.204
48.5	12005.73612098.46012364.53712616.50412672.945
49.0	11872.69711935.18512231.49812487.49712467.340
49.5	11729.57911761.83112100.47512358.49012229.483
50.0	11550.17911616.69811963.40512219.40411943.248
50.5	11386.90411489.70711816.25612070.23911594.525
51.0	11233.70811338.52611669.10711888.82311193.393
51.5	11100.66911191.37711515.91111667.09210808.387
52.0	10973.67811032.13411370.77811409.07710497.964
52.5	10828.54510878.93811223.62911074.46510203.666
53.0	10661.23810713.64811072.44910691.4749762.219
53.5	10489.90110560.45110927.31610292.3589167.576
54.0	10330.65710421.36610774.1209955.730 8488.273
54.5	10197.61910268.16910618.9089665.464 7925.882

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55.0	10064.58010088.76910469.7439302.631	7530.797
55.5	9895.258 9923.478 10316.5478786.602	7230.452
56.0	9711.826 9790.440 10167.3838143.582	6938.170
56.5	9558.630 9649.338 10016.2027544.907	6573.322
57.0	9429.622 9492.110 9856.959 7121.602	6204.442
57.5	9284.489 9316.741 9681.590 6819.242	5898.049
58.0	9117.183 9145.403 9494.126 6573.322	5708.570
58.5	8929.719 8982.129 9264.332 6272.977	5589.642
59.0	8778.539 8822.885 9000.270 5861.766	5490.870
59.5	8631.390 8651.548 8699.925 5521.106	5351.784
60.0	8441.911 8472.147 8345.155 5319.533	5166.337
60.5	8260.494 8318.951 8026.669 5200.604	4930.495
61.0	8097.220 8151.645 7726.324 5099.817	4638.213
61.5	7954.102 7978.291 7377.601 4952.668	4329.805
62.0	7782.764 7794.859 6998.642 4763.189	4021.397
62.5	7571.112 7609.411 6508.818 4515.253	3612.203
63.0	7385.664 7450.168 5956.506 4206.845	2997.402
63.5	7238.515 7292.940 5509.012 3908.516	2501.531
64.0	7059.115 7109.508 5204.636 3610.187	2207.233
64.5	6887.777 6948.249 4972.826 3166.724	1937.326
65.0	6726.518 6782.958 4704.733 2586.192	1525.107
65.5	6512.850 6595.495 4368.104 2185.060	1321.518
66.0	6331.433 6422.141 4085.901 1940.148	1275.962
66.5	6174.206 6264.914 3916.579 1579.331	1254.998
67.0	6002.868 6089.545 3783.540 1323.534	1236.655
67.5	5823.467 5916.191 3644.454 1231.011	1218.514
68.0	5638.019 5758.963 3465.054 1205.613	1201.581
68.5	5476.760 5573.516 3211.071 1185.456	1185.052
69.0	5319.533 5406.209 2920.804 1166.709	1168.523
69.5	5144.163 5234.872 2672.869 1149.172	1151.591
70.0	4972.826 5075.628 2332.209 1132.442	1134.860
70.5	4807.535 4894.212 1895.197 1115.308	1118.735
71.0	4662.402 4704.733 1613.598 1099.384	1102.609
71.5	4495.096 4507.190 1401.139 1083.459	1084.467
72.0	4327.790 4297.553 1158.041 1065.519	1066.930
72.5	4162.499 4029.460 1037.904 1048.385	1048.184
73.0	4007.287 3749.273 1006.660 1031.050	1027.825
73.5	3852.075 3509.400 985.897 1012.505	1007.264
74.0	3696.864 3255.417 965.539 992.549	984.688
74.5	3543.667 2977.245 946.389 970.981	962.313
75.0	3372.330 2622.475 927.038 949.009	938.931
75.5	3215.102 2374.539 908.493 926.433	914.540
76.0	3057.875 2193.123 890.553 903.051	889.747
76.5	2890.568 1994.774 871.202 879.063	864.147
77.0	2723.262 1784.331 851.851 854.471	838.749
77.5	2553.940 1647.261 831.089 829.678	812.544
78.0	2364.461 1480.156 809.520 804.078	786.339
78.5	2207.233 1270.923 786.339 777.269	759.329
79.0	2068.147 1109.462 762.957 751.064	732.922
79.5	1923.820 875.838 738.970 724.859	705.911
80.0	1778.082 752.878 714.176 697.848	678.296
80.5	1632.143 637.780 689.382 670.031	651.083
81.0	1483.986 598.674 663.581 642.416	626.491
81.5	1337.845 574.284 636.570 615.203	602.907
82.0	1206.218 548.885 608.350 587.588	571.462
82.5	1088.700 523.286 580.129 560.174	543.645

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CANDELA TABULATION - (Cont.)

83.0	962.313	498.290	550.095	531.953	516.634
83.5	838.950	472.287	520.262	504.136	489.018
84.0	719.820	445.680	489.421	475.109	460.596
84.5	608.551	417.459	459.185	444.873	430.965
85.0	497.887	389.037	427.941	412.218	398.511
85.5	440.439	358.801	394.480	377.145	365.252
86.0	377.346	327.557	359.205	340.257	329.170
86.5	285.630	294.902	319.696	300.345	292.685
87.0	237.656	260.836	277.769	258.619	252.975
87.5	207.419	225.360	233.019	216.289	210.241
88.0	177.385	186.456	188.270	169.725	162.267
88.5	144.528	144.528	142.714	119.332	110.059
89.0	105.625	104.214	97.159	77.404	71.156
89.5	66.116	69.946	62.488	53.014	51.401
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-L480-840-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-L480-840-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-L480-840-HP-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7091.86	N.A.	14.00
0-30	15125.73	N.A.	29.80
0-40	24924.1	N.A.	49.10
0-60	43768.46	N.A.	86.20
0-80	50335.41	N.A.	99.10
0-90	50792.65	N.A.	100.00
10-90	48963.88	N.A.	96.40
20-40	17832.24	N.A.	35.10
20-50	28085.59	N.A.	55.30
40-70	23584.43	N.A.	46.40
60-80	6566.96	N.A.	12.90
70-80	1826.88	N.A.	3.60
80-90	457.23	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	50792.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1828.77
10-20	5263.09
20-30	8033.87
30-40	9798.37
40-50	10253.35
50-60	8591.01
60-70	4740.08
70-80	1826.88
80-90	457.23
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-L480-840-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-L480-840-HP-DIM-UNV_.IES

UGR TABLE - CORRECTED

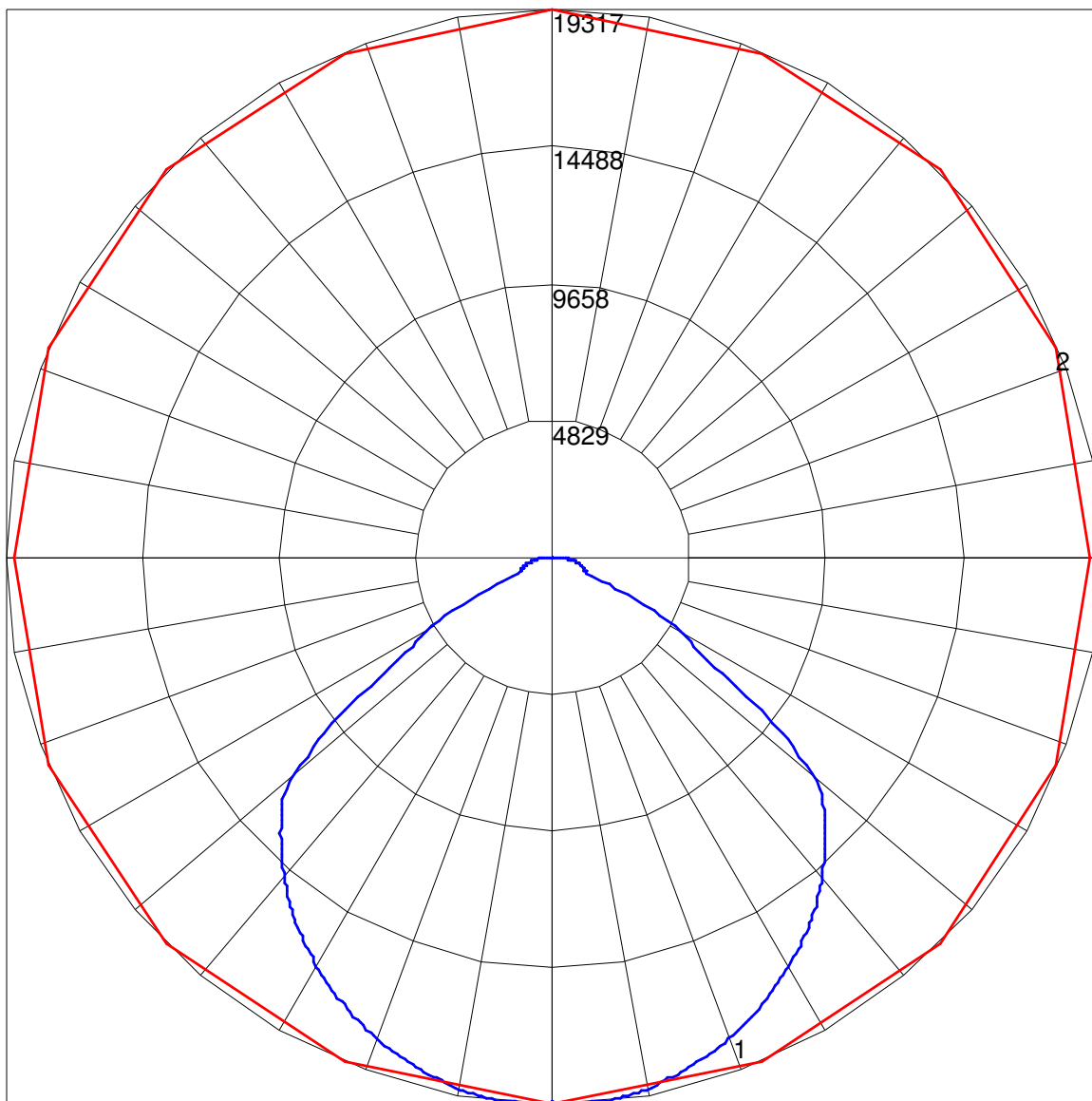
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	26.0	27.6	26.4	27.9	28.2	23.6	25.2	24.0	25.5	25.8
	3H	27.7	29.1	28.1	29.4	29.8	23.7	25.1	24.1	25.4	25.8
	4H	28.2	29.5	28.6	29.9	30.3	23.8	25.1	24.2	25.5	25.8
	6H	28.5	29.7	28.9	30.1	30.5	23.9	25.1	24.3	25.5	25.9
	8H	28.6	29.7	29.0	30.1	30.5	24.0	25.1	24.4	25.5	25.9
	12H	28.6	29.7	29.0	30.1	30.5	24.0	25.1	24.5	25.5	25.9
4H	2H	26.2	27.5	26.6	27.9	28.3	24.2	25.5	24.6	25.9	26.2
	3H	28.1	29.2	28.5	29.6	30.0	24.4	25.5	24.8	25.9	26.3
	4H	28.7	29.7	29.1	30.1	30.5	24.5	25.5	25.0	25.9	26.3
	6H	29.0	29.9	29.5	30.3	30.8	24.7	25.6	25.2	26.0	26.5
	8H	29.1	29.9	29.6	30.3	30.8	24.8	25.6	25.3	26.0	26.5
	12H	29.1	29.8	29.6	30.3	30.8	24.9	25.6	25.4	26.1	26.6
8H	4H	28.6	29.4	29.1	29.9	30.3	24.7	25.5	25.2	25.9	26.4
	6H	29.0	29.6	29.5	30.1	30.6	25.0	25.6	25.5	26.1	26.6
	8H	29.1	29.7	29.6	30.2	30.7	25.1	25.7	25.6	26.2	26.7
	12H	29.2	29.7	29.7	30.2	30.7	25.3	25.8	25.8	26.3	26.9
12H	4H	28.6	29.3	29.1	29.8	30.3	24.7	25.4	25.2	25.9	26.4
	6H	29.0	29.6	29.5	30.0	30.6	25.0	25.6	25.5	26.0	26.6
	8H	29.1	29.6	29.6	30.1	30.6	25.2	25.7	25.7	26.2	26.8

Maximum UGR = 30.8

POLAR GRAPH



Maximum Candela = 19316.817 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.)