

IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L480-850-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-L480-850-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	52316
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
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	51787	53389	54355
55	49567	51563	37089
65	44961	31447	10194
75	36806	10118	10248
85	16137	13870	12916

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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	19831.95819831.95819831.95819831.95819831.958				
0.5	19586.96519844.41519888.01619856.87319896.321				
1.0	19593.19419846.49219890.09219856.87319894.244				
1.5	19601.49919844.41519892.16819850.64419888.016				
2.0	19599.42319848.56819888.01619852.72019890.092				
2.5	19595.27019844.41519890.09219848.56819883.863				
3.0	19593.19419836.11119885.94019850.64419888.016				
3.5	19586.96519823.65319883.86319850.64419888.016				
4.0	19572.43219817.42519877.63519858.94919892.168				
4.5	19553.74619804.96719869.33019863.10119896.321				
5.0	19528.83119790.43419863.10119858.94919890.092				
5.5	19510.14619777.97719854.79619852.72019881.787				
6.0	19495.61219765.51919844.41519838.18719865.177				
6.5	19474.85019746.83419834.03419823.65319842.339				
7.0	19447.85919726.07119813.27219802.89119815.348				
7.5	19425.02119707.38619794.58619775.90019786.282				
8.0	19404.25919684.54719767.59619746.83419759.291				
8.5	19393.87819659.63319742.68119717.76719738.529				
9.0	19377.26819632.64219715.69019688.70019713.614				
9.5	19354.43019611.88019692.85219667.93819694.928				
10.0	19329.51519593.19419667.93819643.02319670.014				
10.5	19306.67719572.43219638.87119611.88019640.947				
11.0	19281.76219551.67019605.65119576.58419609.804				
11.5	19261.00019528.83119572.43219543.36519562.051				
12.0	19221.55219499.76519545.44119499.76519499.765				
12.5	19177.95219470.69819508.06919441.63119449.935				
13.0	19134.35219437.47819468.62119383.49719395.954				
13.5	19088.67519391.80219429.17319333.66819335.744				
14.0	19038.84619348.20119387.64919277.61019279.686				
14.5	18972.40719304.60119337.82019221.55219231.933				
15.0	18924.65419261.00019290.06719165.49519194.562				
15.5	18897.66419213.24819234.01019111.51319157.190				
16.0	18858.21619159.26619177.95219063.76019111.513				
16.5	18816.69119109.43719111.51319016.00819069.989				
17.0	18789.70119057.53219053.37918968.25519022.236				
17.5	18746.10019007.70318991.09318914.27318976.560				
18.0	18696.27118949.56918924.65418864.44418922.578				
18.5	18642.29018893.51118866.52018804.23418851.987				
19.0	18577.92718839.53018793.85318741.94818785.548				
19.5	18507.33618783.47218725.33818681.73818731.567				
20.0	18440.89718727.41418658.89918617.37518673.433				
20.5	18376.53518667.20418598.68918555.08918615.299				
21.0	18314.24918602.84218536.40318496.95518553.013				
21.5	18241.58118538.47918472.04118438.82118484.498				
22.0	18170.99018474.11718407.67818376.53518415.983				
22.5	18110.78018405.60218339.16318312.17218353.697				
23.0	18050.57018335.01118262.34318237.42918278.953				
23.5	17990.36018256.11518187.60018170.99018212.514				
24.0	17915.61618185.52418106.62818104.55118139.847				
24.5	17851.25418114.93218023.57918029.80818071.332				
25.0	17780.66318027.73217934.30217961.29317992.436				
25.5	17699.69017955.06417855.40617884.47317917.692				
26.0	17606.26117882.39717778.58617807.65317834.644				
26.5	17504.52717786.89117703.84317726.68117753.672				

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PHOTOMETRIC FILENAME : GS-4-L480-850-HP-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	17411.09717693.46217622.87117647.78517672.700
27.5	17319.74417595.88017548.12717568.88917593.804
28.0	17232.54317498.29817467.15517494.14617514.908
28.5	17157.80017400.71617382.03017413.17317429.783
29.0	17074.75117305.21117294.82917317.66817346.735
29.5	16991.70317209.70517207.62917230.46717271.991
30.0	16908.65417103.81817114.19917139.11417184.790
30.5	16825.60617006.23617029.07517045.68417105.894
31.0	16736.32916898.27316943.95016958.48317018.694
31.5	16636.67116792.38716854.67316869.20616931.493
32.0	16532.86016696.88116761.24416777.85316840.139
32.5	16424.89716595.14716671.96616696.88116744.634
33.0	16312.78216495.48916590.99416607.60416657.433
33.5	16204.81916389.60216497.56516516.25116578.537
34.0	16094.78016277.48716395.83116420.74516487.184
34.5	15990.97016167.44716292.02016325.23916391.678
35.0	15895.46416053.25616177.82816231.81016289.944
35.5	15806.18715939.06416047.02716134.22816198.591
36.0	15698.22415816.56815941.14116036.64616103.085
36.5	15586.10915694.07215839.40615934.91216001.351
37.0	15457.38415571.57515727.29115835.25415901.693
37.5	15318.27815451.15515613.09915735.59615795.806
38.0	15185.40015332.81115511.36515631.78515685.767
38.5	15050.44615212.39115413.78315523.82215565.347
39.0	14932.10215091.97115299.59215407.55515453.231
39.5	14819.98714963.24615172.94315285.05815343.192
40.0	14703.71914828.29215046.29415168.79015229.001
40.5	14583.29914693.33814925.87415050.44615121.038
41.0	14471.18414558.38514803.37714921.72115010.998
41.5	14334.15414421.35514672.57614803.37714884.350
42.0	14182.59114286.40114539.69914676.72914755.625
42.5	14018.57014149.37114404.74514550.08014628.976
43.0	13858.70214010.26514276.02014423.43114506.479
43.5	13709.21513862.85414143.14314294.70614386.059
44.0	13576.33713723.74814022.72214170.13314273.944
44.5	13466.29813586.71813893.99714058.01814153.524
45.0	13352.10713441.38413765.27213941.75014014.418
45.5	13227.53413300.20113626.16613802.64413887.769
46.0	13080.12313154.86713470.45113649.00513750.739
46.5	12928.56013003.30313306.43013522.35613619.938
47.0	12768.69212857.96913167.32413391.55513493.289
47.5	12625.43312718.86313028.21813254.52513358.335
48.0	12494.63212583.90912880.80713123.72413219.229
48.5	12365.90712461.41312735.47212994.99913053.132
49.0	12228.87712293.24012598.44212862.12112841.359
49.5	12081.46612114.68512463.48912729.24412596.366
50.0	11896.68311965.19812322.30612585.98512301.544
50.5	11728.51011834.39712170.74312432.34611942.360
51.0	11570.71811678.68112019.18012245.48711529.194
51.5	11433.68911527.11811861.38812017.10411132.638
52.0	11302.88711363.09711711.90111751.34910812.902
52.5	11153.40011205.30511560.33711406.69810509.775
53.0	10981.07511035.05611404.62211012.21810055.085
53.5	10804.59710877.26411255.13510601.1289442.603
54.0	10640.57610734.00611097.34310254.4018742.920
54.5	10503.54710576.21410937.4749955.427 8163.658

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-4-L480-850-HP-DIM-UNV_.IES

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55.0	10366.517	10391.431	10783.835	9581.709	7756.721
55.5	10192.115	10221.182	10626.043	9050.199	7447.365
56.0	10003.180	10084.152	10472.403	8387.888	7146.315
56.5	9845.388	9938.817	10316.688	7771.254	6770.521
57.0	9712.510	9776.873	10152.667	7335.250	6390.574
57.5	9563.023	9596.243	9972.037	7023.819	6074.991
58.0	9390.698	9419.765	9778.949	6770.521	5879.827
58.5	9197.610	9251.592	9542.261	6461.166	5757.330
59.0	9041.895	9087.571	9270.278	6037.619	5655.596
59.5	8890.331	8911.093	8960.922	5686.739	5512.338
60.0	8695.168	8726.311	8595.509	5479.118	5321.326
60.5	8508.309	8568.519	8267.468	5356.622	5078.410
61.0	8340.136	8396.193	7958.113	5252.811	4777.359
61.5	8192.725	8217.639	7598.929	5101.248	4459.699
62.0	8016.247	8028.704	7208.601	4906.084	4142.039
62.5	7798.245	7837.693	6704.082	4650.710	3720.568
63.0	7607.234	7673.672	6135.201	4333.050	3087.324
63.5	7455.670	7511.728	5674.282	4025.771	2576.577
64.0	7270.887	7322.793	5360.774	3718.492	2273.450
64.5	7094.410	7156.696	5122.010	3261.726	1995.445
65.0	6928.313	6986.447	4845.874	2663.777	1570.861
65.5	6708.235	6793.359	4499.147	2250.612	1361.163
66.0	6521.376	6614.805	4208.478	1998.352	1314.241
66.5	6359.431	6452.861	4034.076	1626.711	1292.648
67.0	6182.953	6272.230	3897.046	1363.240	1273.755
67.5	5998.171	6093.676	3753.788	1267.941	1255.069
68.0	5807.159	5931.732	3569.005	1241.781	1237.629
68.5	5641.063	5740.721	3307.403	1221.019	1220.604
69.0	5479.118	5568.395	3008.428	1201.710	1203.579
69.5	5298.488	5391.917	2753.054	1183.647	1186.139
70.0	5122.010	5227.897	2402.175	1166.415	1168.906
70.5	4951.761	5041.038	1952.053	1148.767	1152.297
71.0	4802.274	4845.874	1662.006	1132.365	1135.687
71.5	4629.948	4642.406	1443.174	1115.963	1117.001
72.0	4457.623	4426.480	1192.783	1097.485	1098.938
72.5	4287.374	4150.344	1069.041	1079.837	1079.629
73.0	4127.506	3861.751	1036.859	1061.981	1058.659
73.5	3967.637	3614.682	1015.474	1042.880	1037.482
74.0	3807.769	3353.079	994.505	1022.326	1014.229
74.5	3649.977	3066.562	974.781	1000.110	991.183
75.0	3473.499	2701.149	954.849	977.480	967.099
75.5	3311.555	2445.775	935.748	954.226	941.976
76.0	3149.611	2258.917	917.270	930.142	916.439
76.5	2977.285	2054.617	897.338	905.435	890.071
77.0	2804.960	1837.861	877.406	880.105	863.911
77.5	2630.558	1696.679	856.021	854.568	836.920
78.0	2435.394	1524.561	833.806	828.200	809.930
78.5	2273.450	1309.050	809.930	800.587	782.108
79.0	2130.191	1142.746	785.845	773.596	754.910
79.5	1981.535	902.113	761.139	746.605	727.089
80.0	1831.425	775.464	735.601	718.784	698.645
80.5	1681.107	656.913	710.064	690.132	670.616
81.0	1528.506	616.634	683.488	661.688	645.286
81.5	1377.981	591.512	655.667	633.659	620.994
82.0	1242.404	565.352	626.600	605.215	588.606
82.5	1121.361	538.984	597.533	576.979	559.954

IES INDOOR REPORT
PHOTOMETRIC FILENAME : GS-4-L480-850-HP-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	991.183	513.239	566.598	547.912	532.133
83.5	864.119	486.456	535.870	519.260	503.689
84.0	741.415	459.050	504.104	489.363	474.414
84.5	626.808	429.983	472.961	458.220	443.894
85.0	512.824	400.709	440.779	424.585	410.467
85.5	453.652	369.565	406.314	388.459	376.209
86.0	388.667	337.384	369.981	350.464	339.045
86.5	294.199	303.750	329.287	309.355	301.466
87.0	244.785	268.662	286.102	266.378	260.564
87.5	213.642	232.120	240.010	222.777	216.549
88.0	182.706	192.049	193.918	174.817	167.135
88.5	148.864	148.864	146.996	122.912	113.361
89.0	108.793	107.340	100.073	79.726	73.290
89.5	68.100	72.044	64.363	54.604	52.943
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-L480-850-HP-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-L480-850-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-L480-850-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-L480-850-HP-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7304.62	N.A.	14.00
0-30	15579.5	N.A.	29.80
0-40	25671.82	N.A.	49.10
0-60	45081.51	N.A.	86.20
0-80	51845.47	N.A.	99.10
0-90	52316.42	N.A.	100.00
10-90	50432.79	N.A.	96.40
20-40	18367.2	N.A.	35.10
20-50	28928.15	N.A.	55.30
40-70	24291.96	N.A.	46.40
60-80	6763.97	N.A.	12.90
70-80	1881.69	N.A.	3.60
80-90	470.95	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	52316.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1883.64
10-20	5420.98
20-30	8274.88
30-40	10092.32
40-50	10560.95
50-60	8848.73
60-70	4882.28
70-80	1881.69
80-90	470.95
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-L480-850-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-L480-850-HP-DIM-UNV_.IES

UGR TABLE - CORRECTED

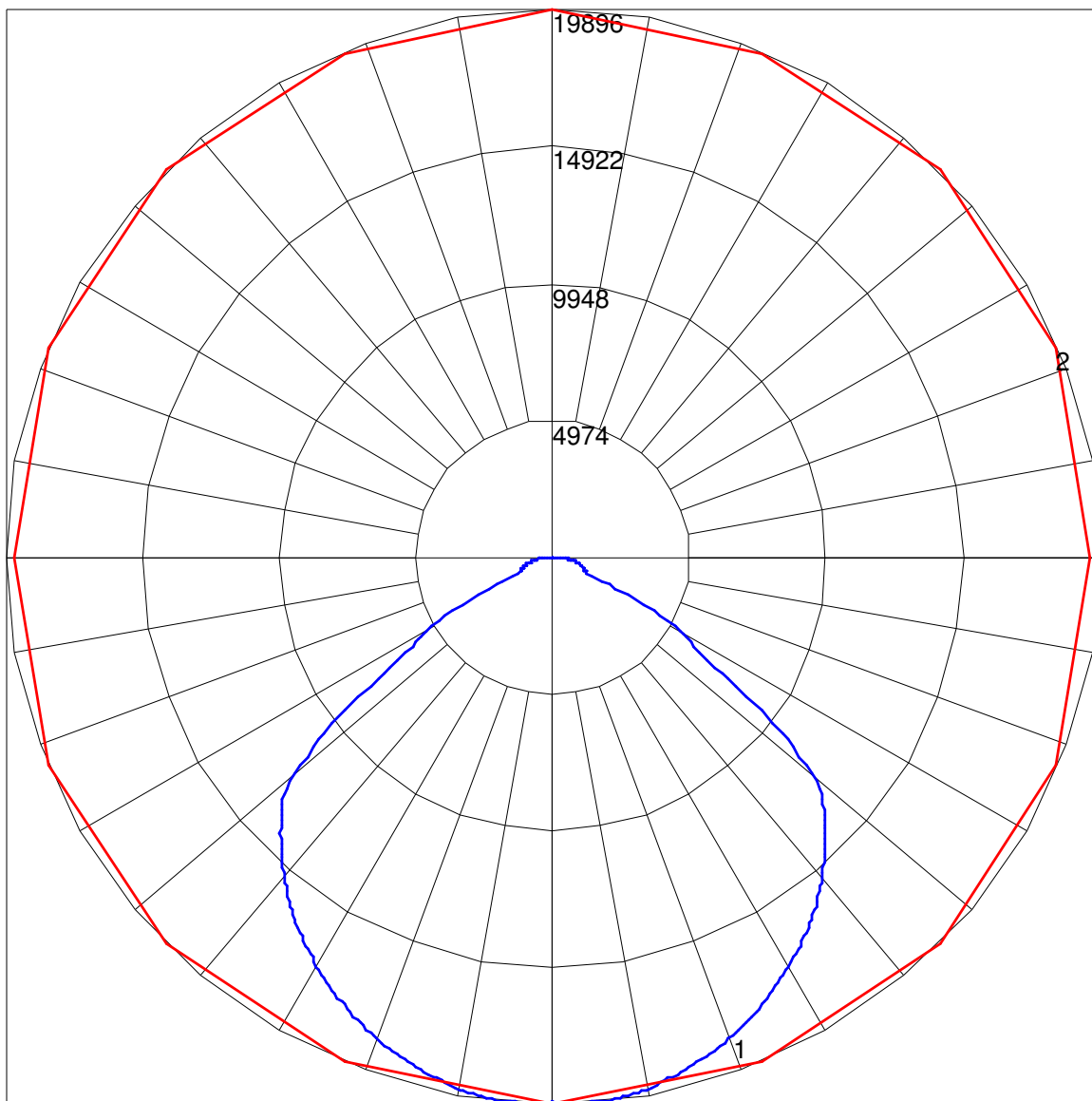
Reflectances

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	26.2	27.8	26.6	28.1	28.4	23.8	25.4	24.2	25.7	26.0
	3H	27.9	29.3	28.3	29.6	30.0	23.9	25.3	24.3	25.6	26.0
	4H	28.4	29.7	28.8	30.1	30.5	24.0	25.3	24.4	25.7	26.0
	6H	28.7	29.9	29.1	30.3	30.7	24.1	25.3	24.5	25.7	26.1
	8H	28.8	29.9	29.2	30.3	30.7	24.2	25.3	24.6	25.7	26.1
	12H	28.8	29.9	29.2	30.3	30.7	24.2	25.3	24.7	25.7	26.1
4H	2H	26.4	27.7	26.8	28.1	28.5	24.4	25.7	24.8	26.1	26.4
	3H	28.3	29.4	28.7	29.8	30.2	24.6	25.7	25.0	26.1	26.5
	4H	28.9	29.9	29.3	30.3	30.7	24.7	25.7	25.2	26.1	26.5
	6H	29.2	30.1	29.7	30.5	31.0	24.9	25.8	25.4	26.2	26.7
	8H	29.3	30.1	29.8	30.5	31.0	25.0	25.8	25.5	26.2	26.7
	12H	29.3	30.0	29.8	30.5	31.0	25.1	25.8	25.6	26.3	26.8
8H	4H	28.8	29.6	29.3	30.1	30.5	24.9	25.7	25.4	26.1	26.6
	6H	29.2	29.8	29.7	30.3	30.8	25.2	25.8	25.7	26.3	26.8
	8H	29.3	29.9	29.8	30.4	30.9	25.3	25.9	25.8	26.4	26.9
	12H	29.4	29.9	29.9	30.4	30.9	25.5	26.0	26.0	26.5	27.1
12H	4H	28.8	29.5	29.3	30.0	30.5	24.9	25.6	25.4	26.1	26.6
	6H	29.2	29.8	29.7	30.2	30.8	25.2	25.8	25.7	26.2	26.8
	8H	29.3	29.8	29.8	30.3	30.8	25.4	25.9	25.9	26.4	27.0

Maximum UGR = 31.0

POLAR GRAPH



Maximum Candela = 19896.321 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.)