



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L480-840-ND-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14629546.01
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 2023-03-14
[TESTDATE] 1/5/2023
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] GS-4-L480-840-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	46886
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
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	41968	41313	41589
55	38660	38251	37541
65	34522	34204	31376
75	28854	27494	22379
85	21277	16919	13779

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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	20631.143	20631.143	20631.143	20631.143	20631.143
0.5	20447.846	20631.143	20671.876	20631.143	20671.876
1.0	20427.479	20610.777	20671.876	20610.777	20671.876
1.5	20427.479	20610.777	20651.510	20610.777	20651.510
2.0	20407.113	20590.410	20631.143	20590.410	20631.143
2.5	20407.113	20570.044	20631.143	20570.044	20610.777
3.0	20386.747	20549.678	20610.777	20549.678	20590.410
3.5	20354.160	20529.311	20570.044	20508.945	20529.311
4.0	20331.757	20508.945	20549.678	20488.578	20529.311
4.5	20307.318	20488.578	20529.311	20447.846	20488.578
5.0	20278.805	20447.846	20508.945	20427.479	20447.846
5.5	20244.182	20427.479	20468.212	20386.747	20407.113
6.0	20205.486	20386.747	20427.479	20341.941	20386.747
6.5	20164.753	20337.867	20386.747	20295.098	20331.757
7.0	20115.874	20288.988	20331.757	20248.255	20282.878
7.5	20056.811	20233.999	20272.695	20191.229	20231.962
8.0	20003.859	20174.936	20211.596	20132.167	20172.900
8.5	19944.796	20109.764	20146.423	20071.068	20111.800
9.0	19877.587	20040.518	20075.141	20005.895	20046.628
9.5	19806.305	19965.163	20005.895	19936.650	19975.346
10.0	19724.839	19887.770	19926.466	19865.367	19902.027
10.5	19643.374	19802.231	19847.038	19787.975	19820.561
11.0	19555.798	19716.693	19761.499	19706.509	19732.986
11.5	19466.186	19627.081	19675.960	19620.971	19649.484
12.0	19372.501	19533.395	19580.238	19529.322	19553.762
12.5	19280.852	19433.600	19482.479	19437.673	19458.040
13.0	19187.167	19333.805	19378.611	19335.841	19358.244
13.5	19087.372	19229.936	19272.706	19223.826	19250.303
14.0	18981.466	19117.921	19164.764	19105.701	19144.397
14.5	18873.525	19003.869	19052.749	19001.833	19030.346
15.0	18759.473	18891.854	18936.660	18889.818	18916.294
15.5	18641.348	18775.766	18818.535	18767.619	18800.206
16.0	18523.223	18655.604	18692.264	18643.384	18675.971
16.5	18396.951	18537.479	18568.029	18521.186	18545.626
17.0	18266.606	18413.244	18453.977	18392.878	18413.244
17.5	18136.262	18286.973	18321.596	18262.533	18278.826
18.0	18007.953	18156.628	18185.141	18130.152	18144.408
18.5	17873.535	18028.320	18054.796	17995.734	18005.917
19.0	17741.154	17897.975	17920.378	17859.279	17865.389
19.5	17606.736	17765.593	17787.996	17718.751	17728.934
20.0	17474.354	17629.139	17651.542	17580.259	17592.479
20.5	17339.936	17494.721	17515.087	17439.731	17451.951
21.0	17201.445	17360.302	17380.669	17299.203	17313.460
21.5	17071.100	17221.811	17242.177	17158.675	17170.895
22.0	16932.609	17087.393	17103.686	17018.147	17032.404
22.5	16800.227	16952.975	16963.158	16877.619	16891.876
23.0	16665.809	16814.484	16820.593	16733.018	16745.238
23.5	16531.391	16678.029	16673.955	16584.343	16598.600
24.0	16399.009	16545.647	16527.318	16435.669	16453.999
24.5	16274.774	16405.119	16374.570	16286.994	16305.324
25.0	16142.393	16266.628	16223.858	16138.320	16162.759
25.5	16005.938	16126.100	16073.147	15993.718	16018.158
26.0	15873.557	15985.572	15922.436	15849.117	15879.667
26.5	15741.175	15843.007	15771.725	15702.479	15739.139

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27.0	15608.79415714.69915621.01415557.87815600.647
27.5	15474.37615592.50115472.33915411.24015462.156
28.0	15339.95815429.57015325.70115266.63915323.664
28.5	15207.57615289.04215179.06315124.07415187.210
29.0	15060.93815162.77015034.46214981.50915050.755
29.5	14926.52015018.16914891.89714843.01814914.300
30.0	14792.10214873.56714751.36914704.52714771.736
30.5	14661.75714737.11314612.87814570.10814633.244
31.0	14529.37614600.65814472.35014435.69014494.753
31.5	14401.06714464.20314331.82214299.23614354.225
32.0	14274.79614327.74814193.33014164.81714215.733
32.5	14146.48814195.36714054.83914032.43614081.315
33.0	14020.21614060.94913916.34813895.98113946.897
33.5	13895.98113930.60413777.85613761.56313816.552
34.0	13769.71013796.18613641.40113625.10813686.208
34.5	13643.43813661.76813488.65413486.61713553.826
35.0	13515.13013529.38613356.27213348.12613421.445
35.5	13388.85813397.00513225.92713209.63413289.063
36.0	13260.55013264.62313087.43613073.17913154.645
36.5	13132.24213128.16912950.98112934.68813022.264
37.0	13005.97012993.75112814.52612796.19712885.809
37.5	12895.99212855.25912673.99812657.70512751.391
38.0	12773.79412718.80412537.54412519.21412616.973
38.5	12608.82612580.31312401.08912382.75912484.591
39.0	12472.37112439.78512270.74412246.30412350.173
39.5	12335.91612301.29412142.43612109.85012213.718
40.0	12195.38812160.76611995.79811973.39512077.263
40.5	12056.89712022.27411853.23311836.94011940.809
41.0	11918.40611885.81911718.81511700.48511804.354
41.5	11779.91411745.29111584.39711561.99411665.863
42.0	11639.38611606.80011447.94211423.50311527.371
42.5	11502.93211468.30911315.56111285.01111392.953
43.0	11364.44011329.81711183.17911148.55711260.572
43.5	11227.98511191.32611048.76111008.02911126.154
44.0	11091.53111054.87110918.41610869.53710989.699
44.5	10955.07610910.27010783.99810733.08210857.317
45.0	10820.65810763.63210651.61710594.59110722.899
45.5	10686.24010633.28710519.23510456.10010582.371
46.0	10549.78510496.83210386.85410317.60810445.916
46.5	10419.44010346.12110252.43610179.11710305.388
47.0	10285.02210219.85010120.05410040.62510164.860
47.5	10148.56710091.5419985.636 9904.171 10024.332
48.0	10014.1499955.087 9853.255 9765.679 9879.731
48.5	9879.731 9816.595 9718.837 9629.225 9737.166
49.0	9745.313 9680.141 9586.455 9490.733 9596.638
49.5	9610.895 9543.686 9454.074 9358.352 9452.037
50.0	9474.440 9405.194 9321.692 9223.934 9309.472
50.5	9337.985 9266.703 9191.347 9083.406 9166.908
51.0	9199.494 9130.248 9058.966 8944.914 9022.306
51.5	9063.039 8993.794 8928.621 8812.533 8879.742
52.0	8924.548 8859.375 8796.240 8676.078 8733.104
52.5	8781.983 8722.921 8665.895 8539.623 8586.466
53.0	8641.455 8586.466 8533.513 8405.205 8439.828
53.5	8502.964 8450.011 8401.132 8270.787 8293.190
54.0	8364.472 8315.593 8268.750 8136.369 8146.552
54.5	8225.981 8181.175 8134.332 7997.878 7999.914

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55.0	8085.453	8046.757	7999.914	7861.423	7851.240
55.5	7948.998	7910.302	7867.533	7720.895	7704.602
56.0	7810.507	7773.847	7731.078	7582.403	7557.964
56.5	7672.015	7637.393	7586.477	7441.875	7411.326
57.0	7533.524	7502.974	7443.912	7301.347	7262.651
57.5	7397.069	7366.520	7319.677	7158.783	7113.977
58.0	7258.578	7230.065	7187.296	7016.218	6967.339
58.5	7120.087	7093.610	7050.841	6871.617	6816.627
59.0	6981.595	6955.119	6914.386	6724.979	6667.953
59.5	6843.104	6818.664	6777.931	6580.377	6521.315
60.0	6706.649	6680.173	6639.440	6433.740	6393.007
60.5	6568.158	6541.681	6505.022	6289.138	6232.112
61.0	6429.666	6403.190	6370.604	6144.537	6061.035
61.5	6291.175	6266.735	6232.112	5997.899	5906.250
62.0	6154.720	6126.207	6093.621	5851.261	5753.502
62.5	6014.192	5987.716	5955.130	5706.660	5598.718
63.0	5875.701	5851.261	5818.675	5560.022	5445.970
63.5	5735.173	5712.770	5684.257	5417.457	5291.186
64.0	5594.645	5576.315	5547.802	5272.856	5138.438
64.5	5456.153	5439.860	5409.311	5130.291	4985.690
65.0	5319.699	5303.405	5270.819	4985.690	4834.979
65.5	5183.244	5166.951	5136.401	4843.125	4686.304
66.0	5046.789	5030.496	4999.946	4700.561	4537.630
66.5	4910.334	4898.114	4863.492	4557.996	4388.955
67.0	4773.880	4763.696	4727.037	4403.211	4242.317
67.5	4639.461	4629.278	4590.582	4266.757	4097.716
68.0	4505.043	4494.860	4452.091	4130.302	3953.114
68.5	4372.662	4362.479	4315.636	3989.774	3810.550
69.0	4240.280	4228.061	4177.145	3847.209	3667.985
69.5	4109.936	4097.716	4040.690	3706.681	3529.494
70.0	3979.591	3965.334	3904.235	3566.153	3391.002
70.5	3851.282	3832.953	3767.780	3427.662	3254.548
71.0	3722.974	3700.571	3633.362	3289.170	3120.129
71.5	3594.666	3572.263	3498.944	3154.752	2985.711
72.0	3468.395	3441.918	3364.526	3020.334	2855.367
72.5	3342.123	3313.610	3232.145	2887.953	2727.058
73.0	3217.888	3185.302	3103.836	2757.608	2598.750
73.5	3093.653	3059.030	2973.492	2629.300	2474.515
74.0	2967.382	2932.759	2845.183	2505.065	2350.280
74.5	2847.220	2808.524	2718.912	2380.830	2230.119
75.0	2722.985	2686.326	2594.677	2258.632	2111.994
75.5	2602.823	2564.127	2468.405	2138.470	1995.905
76.0	2484.698	2446.002	2346.207	2022.382	1885.927
76.5	2366.573	2327.877	2226.045	1908.330	1775.948
77.0	2250.485	2211.789	2105.884	1798.351	1663.933
77.5	2136.433	2099.774	1989.795	1690.410	1555.991
78.0	2024.418	1987.759	1873.707	1584.504	1462.306
78.5	1914.440	1877.780	1759.655	1482.672	1370.657
79.0	1806.498	1769.838	1649.677	1382.877	1279.009
79.5	1700.593	1663.933	1539.698	1285.119	1189.397
80.0	1596.724	1560.065	1431.757	1191.433	1103.858
80.5	1494.892	1460.269	1327.888	1107.931	1020.356
81.0	1397.134	1360.474	1224.019	1028.502	942.963
81.5	1301.412	1262.716	1124.224	934.817	869.644
82.0	1205.690	1169.030	1030.539	853.351	798.362
82.5	1112.004	1075.345	938.890	777.996	729.116

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CANDELA TABULATION - (Cont.)

83.0	1020.356	983.696	851.315	706.713	663.944
83.5	932.780	896.121	765.776	639.504	602.845
84.0	845.205	810.582	684.310	576.369	545.819
84.5	759.666	725.043	608.955	515.269	490.830
85.0	676.164	643.578	537.672	460.280	437.877
85.5	592.662	564.149	470.463	405.291	384.925
86.0	513.233	488.793	409.364	352.338	331.972
86.5	431.767	413.438	348.265	301.422	287.166
87.0	354.375	342.155	291.239	260.690	250.506
87.5	281.056	276.983	240.323	224.030	217.920
88.0	213.847	215.884	199.591	185.334	183.297
88.5	152.748	162.931	158.858	156.821	154.784
89.0	95.722	118.125	128.308	136.455	136.455
89.5	57.026	83.502	103.869	118.125	118.125
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-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-L480-840-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-L480-840-ND-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7237.41	N.A.	15.40
0-30	14692.11	N.A.	31.30
0-40	23090.69	N.A.	49.20
0-60	38464.26	N.A.	82.00
0-80	46229.35	N.A.	98.60
0-90	46886.25	N.A.	100.00
10-90	44953.09	N.A.	95.90
20-40	15853.29	N.A.	33.80
20-50	24107.61	N.A.	51.40
40-70	20482.57	N.A.	43.70
60-80	7765.09	N.A.	16.60
70-80	2656.09	N.A.	5.70
80-90	656.90	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	46886.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1933.16
10-20	5304.25
20-30	7454.71
30-40	8398.58
40-50	8254.32
50-60	7119.25
60-70	5109.00
70-80	2656.09
80-90	656.90
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-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-L480-840-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	24.7	26.3	25.1	26.6	26.9	24.5	26.1	24.8	26.4	26.7
	3H	26.4	27.8	26.7	28.1	28.5	25.9	27.4	26.3	27.7	28.0
	4H	27.0	28.3	27.4	28.7	29.0	26.4	27.7	26.8	28.1	28.4
	6H	27.4	28.6	27.8	29.0	29.4	26.6	27.9	27.1	28.2	28.6
	8H	27.5	28.7	27.9	29.1	29.5	26.7	27.9	27.1	28.3	28.7
	12H	27.6	28.7	28.0	29.1	29.6	26.7	27.9	27.2	28.2	28.7

UGR Viewed Endwise

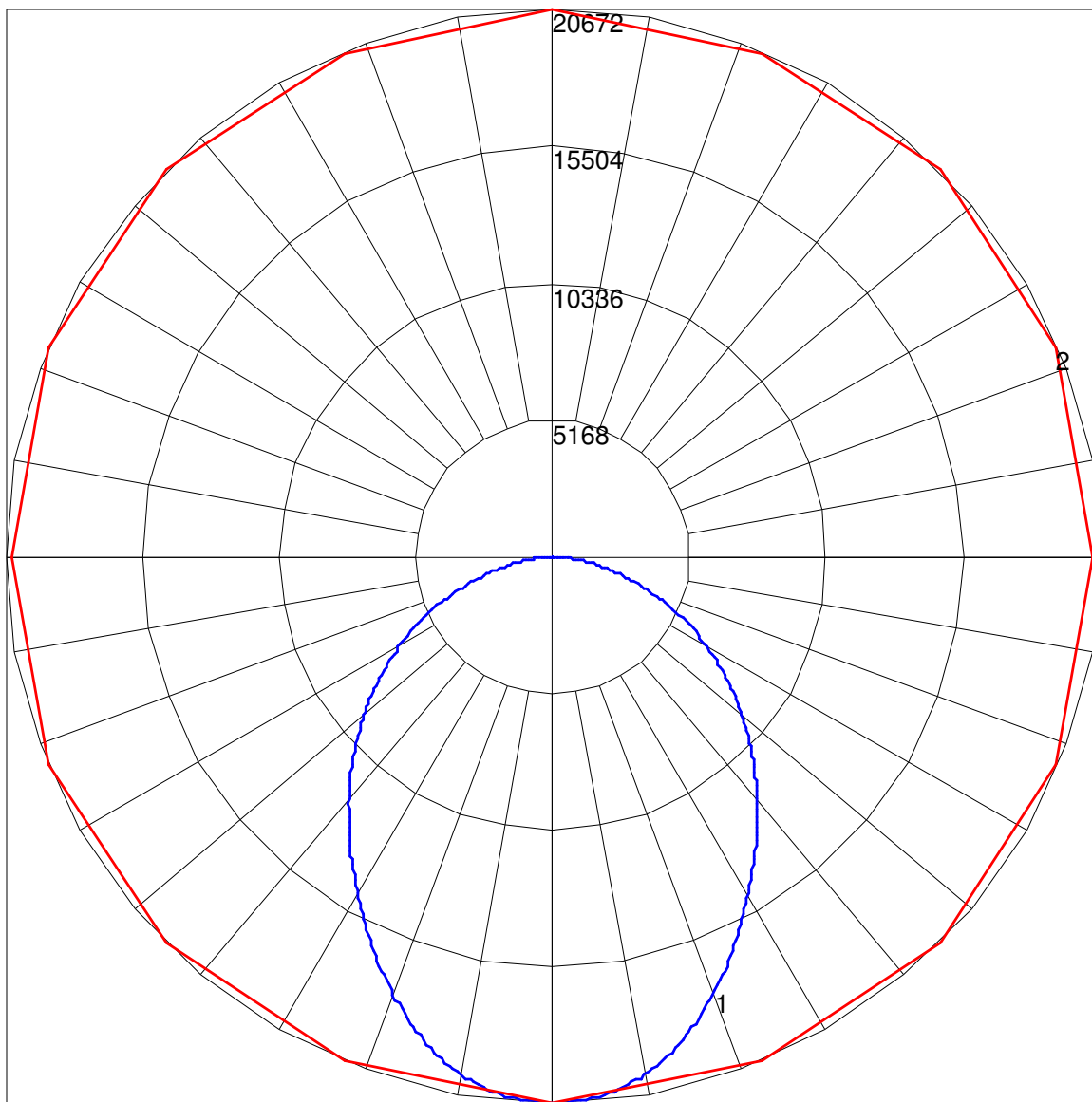
4H	2H	25.3	26.6	25.7	27.0	27.3	25.1	26.4	25.5	26.8	27.2
	3H	27.1	28.3	27.6	28.7	29.1	26.8	27.9	27.2	28.3	28.7
	4H	27.9	28.9	28.3	29.3	29.7	27.3	28.3	27.7	28.7	29.2
	6H	28.4	29.3	28.9	29.7	30.2	27.7	28.5	28.1	29.0	29.4
	8H	28.6	29.4	29.0	29.9	30.3	27.7	28.6	28.2	29.0	29.5
	12H	28.7	29.5	29.2	29.9	30.4	27.8	28.5	28.3	29.0	29.5

8H	4H	28.1	28.9	28.6	29.4	29.8	27.6	28.4	28.1	28.9	29.3
	6H	28.8	29.4	29.3	29.9	30.4	28.0	28.7	28.5	29.2	29.7
	8H	29.0	29.6	29.5	30.1	30.6	28.2	28.8	28.7	29.3	29.8
	12H	29.2	29.7	29.7	30.2	30.8	28.3	28.8	28.8	29.3	29.9

12H	4H	28.1	28.9	28.6	29.3	29.8	27.6	28.4	28.1	28.8	29.3
	6H	28.8	29.4	29.3	29.9	30.4	28.1	28.7	28.6	29.2	29.7
	8H	29.1	29.6	29.6	30.1	30.7	28.3	28.8	28.8	29.3	29.9

Maximum UGR = 30.8

POLAR GRAPH



Maximum Candela = 20671.876 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.)