



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L480-850-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-L480-850-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	48293
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
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	43227	42552	42837
55	39820	39399	38667
65	35557	35231	32317
75	29719	28319	23051
85	21915	17427	14192

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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	21250.077	21250.077	21250.077	21250.077	21250.077
0.5	21061.280	21250.077	21292.031	21250.077	21292.031
1.0	21040.303	21229.099	21292.031	21229.099	21292.031
1.5	21040.303	21229.099	21271.054	21229.099	21271.054
2.0	21019.325	21208.122	21250.077	21208.122	21250.077
2.5	21019.325	21187.144	21250.077	21187.144	21229.099
3.0	20998.348	21166.167	21229.099	21166.167	21208.122
3.5	20964.784	21145.190	21187.144	21124.212	21145.190
4.0	20941.709	21124.212	21166.167	21103.235	21145.190
4.5	20916.536	21103.235	21145.190	21061.280	21103.235
5.0	20887.168	21061.280	21124.212	21040.303	21061.280
5.5	20851.507	21040.303	21082.258	20998.348	21019.325
6.0	20811.650	20998.348	21040.303	20952.198	20998.348
6.5	20769.695	20948.002	20998.348	20903.950	20941.709
7.0	20719.349	20897.657	20941.709	20855.702	20891.364
7.5	20658.515	20841.018	20880.875	20796.965	20838.920
8.0	20603.974	20780.183	20817.943	20736.131	20778.086
8.5	20543.139	20713.056	20750.815	20673.199	20715.154
9.0	20473.914	20641.733	20677.394	20606.071	20648.026
9.5	20400.493	20564.117	20606.071	20534.748	20574.605
10.0	20316.584	20484.403	20524.260	20461.327	20499.087
10.5	20232.674	20396.298	20442.448	20381.613	20415.177
11.0	20142.471	20308.193	20354.343	20297.704	20324.975
11.5	20050.171	20215.892	20266.238	20209.599	20238.967
12.0	19953.675	20119.396	20167.644	20115.201	20140.374
12.5	19859.277	20016.607	20066.953	20020.803	20041.780
13.0	19762.781	19913.818	19959.968	19915.916	19938.991
13.5	19659.992	19806.833	19850.886	19800.540	19827.811
14.0	19550.910	19691.458	19739.706	19678.871	19718.728
14.5	19439.729	19573.985	19624.330	19571.887	19601.255
15.0	19322.256	19458.609	19504.759	19456.511	19483.782
15.5	19200.587	19339.038	19383.091	19330.647	19364.211
16.0	19078.919	19215.272	19253.031	19202.685	19236.249
16.5	18948.859	19093.603	19125.069	19076.821	19101.994
17.0	18814.604	18965.641	19007.596	18944.664	18965.641
17.5	18680.349	18835.581	18871.243	18810.408	18827.190
18.0	18548.191	18701.326	18730.694	18674.055	18688.740
18.5	18409.741	18569.169	18596.439	18535.605	18546.093
19.0	18273.388	18434.913	18457.989	18395.056	18401.350
19.5	18134.937	18298.560	18321.636	18250.313	18260.801
20.0	17998.584	18158.012	18181.087	18107.666	18120.253
20.5	17860.133	18019.561	18040.539	17962.923	17975.509
21.0	17717.487	17881.111	17902.088	17818.179	17832.863
21.5	17583.232	17738.465	17759.442	17673.435	17686.021
22.0	17440.586	17600.014	17616.796	17528.691	17543.375
22.5	17304.233	17461.563	17472.052	17383.947	17398.631
23.0	17165.782	17318.917	17325.210	17235.008	17247.594
23.5	17027.332	17178.369	17174.173	17081.873	17096.557
24.0	16890.979	17042.016	17023.136	16928.738	16947.618
24.5	16763.017	16897.272	16865.806	16775.603	16794.483
25.0	16626.664	16754.626	16710.574	16622.469	16647.641
25.5	16486.116	16609.882	16555.341	16473.529	16498.702
26.0	16349.763	16465.138	16400.108	16324.590	16356.056
26.5	16213.410	16318.297	16244.876	16173.553	16211.312

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27.0	16077.05716186.13916089.64316024.61416068.666
27.5	15938.60616060.27515936.50915873.57615926.020
28.0	15800.15615892.45615785.47115724.63715783.374
28.5	15663.80315747.71215634.43415577.79615642.825
29.0	15512.76615617.65315485.49515430.95415502.277
29.5	15374.31515468.71315338.65315288.30815361.729
30.0	15235.86415319.77415193.91015145.66215214.887
30.5	15101.60915179.22515051.26415007.21115072.241
31.0	14965.25615038.67714906.52014868.76014929.595
31.5	14833.09914898.12914761.77614728.21214784.851
32.0	14703.03914757.58014619.13014589.76114642.205
32.5	14570.88214621.22714476.48414453.40814503.754
33.0	14440.82214482.77714333.83714312.86014365.303
33.5	14312.86014348.52214191.19114174.40914231.048
34.0	14182.80014210.07114050.64314033.86114096.793
34.5	14052.74114071.62013893.31313891.21513960.440
35.0	13920.58313935.26713756.96013748.56913824.087
35.5	13790.52413798.91413622.70513605.92313687.734
36.0	13658.36613662.56213480.05813465.37413549.284
36.5	13526.20913522.01313339.51013322.72813412.931
37.0	13396.14913383.56313198.96213180.08213272.382
37.5	13282.87113240.91613054.21813037.43613133.932
38.0	13157.00713100.36812913.66912894.79012995.481
38.5	12987.09012957.72212773.12112754.24112859.128
39.0	12846.54212812.97812638.86612613.69312720.678
39.5	12705.99312670.33212506.70812473.14512580.129
40.0	12561.25012525.58812355.67112332.59612439.581
40.5	12418.60312382.94212208.83012192.04812299.032
41.0	12275.95712242.39412070.37912051.49912158.484
41.5	12133.31112097.65011931.92811908.85312015.838
42.0	11988.56711955.00411791.38011766.20711873.192
42.5	11848.01911812.35711655.02711623.56111734.741
43.0	11705.37311669.71111518.67411483.01311598.388
43.5	11564.82411527.06511380.22411338.26911459.938
44.0	11424.27611386.51711245.96811195.62311319.389
44.5	11283.72811237.57811107.51811055.07411183.036
45.0	11145.27711086.54010971.16510912.42811044.586
45.5	11006.82610952.28510834.81210769.78210899.842
46.0	10866.27810811.73710698.45910627.13610759.293
46.5	10732.02310656.50410560.00810484.49010614.550
47.0	10593.57210526.44510423.65610341.84410469.806
47.5	10453.02410394.28710285.20510201.29510325.062
48.0	10314.57310253.73910148.85210058.64910176.123
48.5	10176.12310111.09310010.4019918.101 10029.281
49.0	10037.6729970.544 9874.048 9775.455 9884.537
49.5	9899.221 9829.996 9737.695 9639.102 9735.598
50.0	9758.673 9687.350 9601.343 9500.651 9588.756
50.5	9618.124 9544.704 9467.087 9355.907 9441.915
51.0	9475.478 9404.155 9330.735 9213.261 9292.975
51.5	9334.930 9263.607 9196.479 9076.908 9146.134
52.0	9192.284 9125.156 9060.126 8936.360 8995.097
52.5	9045.442 8984.608 8925.871 8795.812 8844.060
53.0	8900.698 8844.060 8789.518 8657.361 8693.022
53.5	8758.052 8703.511 8653.165 8518.910 8541.985
54.0	8615.406 8565.060 8516.813 8380.460 8390.948
54.5	8472.760 8426.610 8378.362 8237.813 8239.911

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55.0	8328.016	8288.159	8239.911	8097.265	8086.776
55.5	8187.468	8147.611	8103.558	7952.521	7935.739
56.0	8044.822	8007.062	7963.010	7809.875	7784.702
56.5	7902.176	7866.514	7814.071	7665.131	7633.665
57.0	7759.529	7728.063	7667.229	7520.387	7480.530
57.5	7618.981	7587.515	7539.267	7373.546	7327.396
58.0	7476.335	7446.967	7402.914	7226.704	7176.359
58.5	7333.689	7306.418	7262.366	7077.765	7021.126
59.0	7191.043	7163.772	7121.817	6926.728	6867.991
59.5	7048.397	7023.224	6981.269	6777.788	6716.954
60.0	6907.848	6880.578	6838.623	6626.751	6584.797
60.5	6765.202	6737.931	6700.172	6477.812	6419.075
61.0	6622.556	6595.285	6561.722	6328.873	6242.866
61.5	6479.910	6454.737	6419.075	6177.836	6083.438
62.0	6339.361	6309.993	6276.429	6026.799	5926.107
62.5	6194.618	6167.347	6133.783	5877.859	5766.679
63.0	6051.971	6026.799	5993.235	5726.822	5609.349
63.5	5907.228	5884.152	5854.784	5579.981	5449.921
64.0	5762.484	5743.604	5714.236	5431.041	5292.591
64.5	5619.838	5603.056	5571.590	5284.200	5135.260
65.0	5479.289	5462.507	5428.944	5135.260	4980.028
65.5	5338.741	5321.959	5290.493	4988.419	4826.893
66.0	5198.192	5181.411	5149.945	4841.577	4673.758
66.5	5057.644	5045.058	5009.396	4694.736	4520.623
67.0	4917.096	4906.607	4868.848	4535.308	4369.586
67.5	4778.645	4768.156	4728.299	4394.759	4220.647
68.0	4640.194	4629.706	4585.653	4254.211	4071.708
68.5	4503.841	4493.353	4445.105	4109.467	3924.866
69.0	4367.489	4354.902	4302.459	3962.625	3778.024
69.5	4233.233	4220.647	4161.910	3817.881	3635.378
70.0	4098.978	4084.294	4021.362	3673.138	3492.732
70.5	3966.821	3947.941	3880.814	3530.491	3352.184
71.0	3834.663	3811.588	3742.363	3387.845	3213.733
71.5	3702.506	3679.431	3603.912	3249.395	3075.283
72.0	3572.446	3545.176	3465.462	3110.944	2941.027
72.5	3442.387	3413.018	3329.109	2974.591	2808.870
73.0	3314.425	3280.861	3196.951	2840.336	2676.713
73.5	3186.463	3150.801	3062.696	2708.179	2548.751
74.0	3056.403	3020.741	2930.539	2580.217	2420.789
74.5	2932.636	2892.779	2800.479	2452.255	2297.022
75.0	2804.674	2766.915	2672.517	2326.390	2175.353
75.5	2680.908	2641.051	2542.457	2202.624	2055.782
76.0	2559.239	2519.382	2416.593	2083.053	1942.505
76.5	2437.570	2397.713	2292.827	1965.580	1829.227
77.0	2317.999	2278.142	2169.060	1852.302	1713.851
77.5	2200.526	2162.767	2049.489	1741.122	1602.671
78.0	2085.151	2047.391	1929.918	1632.039	1506.175
78.5	1971.873	1934.114	1812.445	1527.153	1411.777
79.0	1860.693	1822.934	1699.167	1424.363	1317.379
79.5	1751.610	1713.851	1585.889	1323.672	1225.078
80.0	1644.626	1606.867	1474.709	1227.176	1136.973
80.5	1539.739	1504.077	1367.725	1141.169	1050.966
81.0	1439.048	1401.288	1260.740	1059.357	971.252
81.5	1340.454	1300.597	1157.951	962.861	895.734
82.0	1241.860	1204.101	1061.455	878.952	822.313
82.5	1145.364	1107.605	967.057	801.336	750.990

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CANDELA TABULATION - (Cont.)

83.0	1050.966	1013.207	876.854	727.915	683.862
83.5	960.764	923.004	788.749	658.689	620.930
84.0	870.561	834.899	704.840	593.660	562.194
84.5	782.456	746.794	627.223	530.727	505.555
85.0	696.449	662.885	553.803	474.089	451.013
85.5	610.441	581.073	484.577	417.450	396.472
86.0	528.630	503.457	421.645	362.909	341.931
86.5	444.720	425.841	358.713	310.465	295.781
87.0	365.006	352.420	299.976	268.510	258.022
87.5	289.488	285.292	247.533	230.751	224.458
88.0	220.262	222.360	205.578	190.894	188.796
88.5	157.330	167.819	163.623	161.526	159.428
89.0	98.594	121.669	132.157	140.548	140.548
89.5	58.737	86.007	106.985	121.669	121.669
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-L480-850-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-L480-850-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-L480-850-ND-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	7454.53	N.A.	15.40
0-30	15132.87	N.A.	31.30
0-40	23783.41	N.A.	49.20
0-60	39618.19	N.A.	82.00
0-80	47616.23	N.A.	98.60
0-90	48292.83	N.A.	100.00
10-90	46301.68	N.A.	95.90
20-40	16328.88	N.A.	33.80
20-50	24830.84	N.A.	51.40
40-70	21097.05	N.A.	43.70
60-80	7998.04	N.A.	16.60
70-80	2735.77	N.A.	5.70
80-90	676.60	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	48292.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1991.15
10-20	5463.37
20-30	7678.35
30-40	8650.53
40-50	8501.95
50-60	7332.82
60-70	5262.27
70-80	2735.77
80-90	676.60
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-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-L480-850-ND-DIM-UNV_.IES

UGR TABLE - CORRECTED

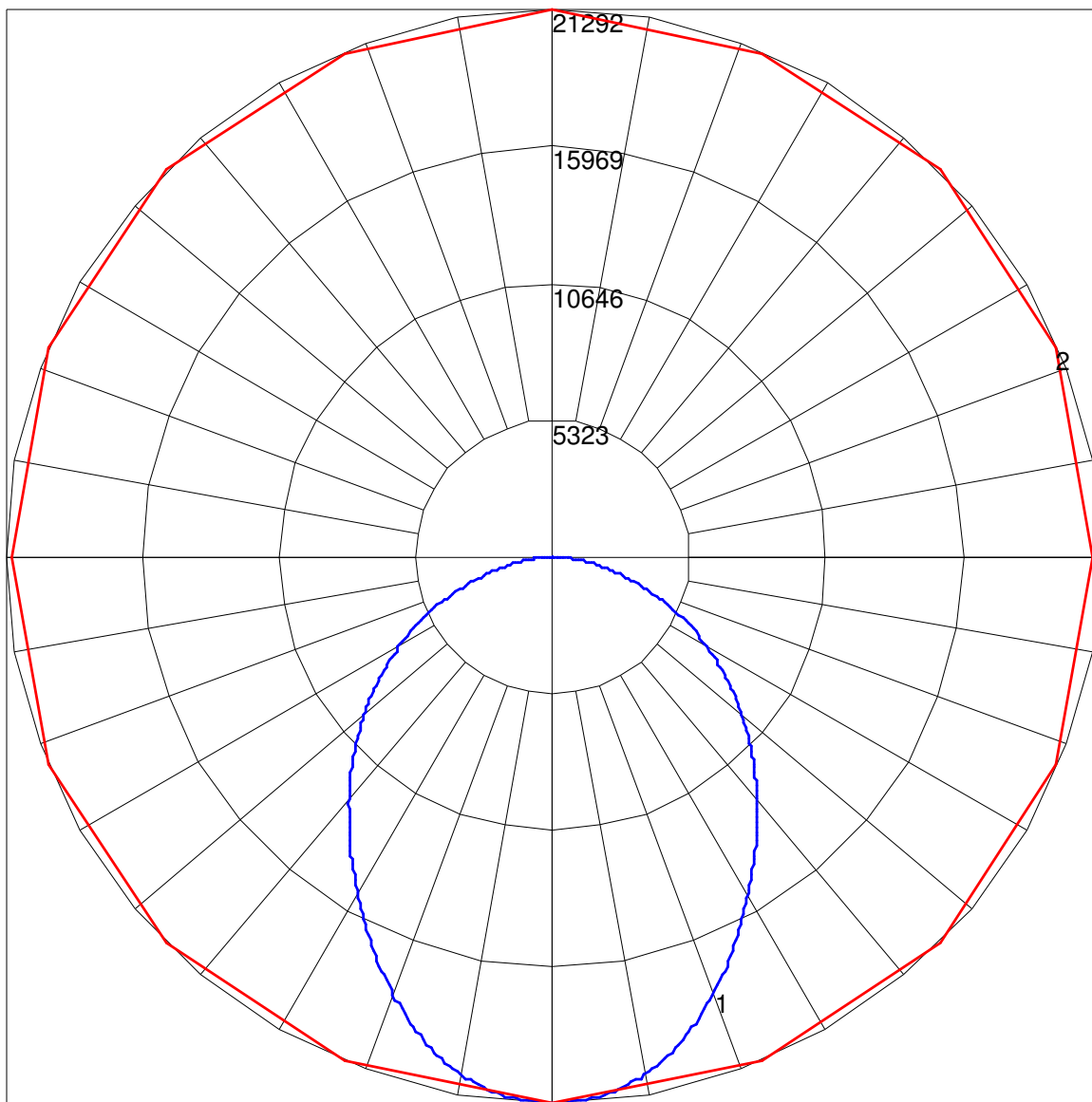
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	24.8	26.4	25.2	26.7	27.0	24.6	26.2	24.9	26.5	26.8
	3H	26.5	27.9	26.8	28.2	28.6	26.0	27.5	26.4	27.8	28.1
	4H	27.1	28.4	27.5	28.8	29.1	26.5	27.8	26.9	28.2	28.5
	6H	27.5	28.7	27.9	29.1	29.5	26.7	28.0	27.2	28.3	28.7
	8H	27.6	28.8	28.0	29.2	29.6	26.8	28.0	27.2	28.4	28.8
	12H	27.7	28.8	28.1	29.2	29.7	26.8	28.0	27.3	28.3	28.8
4H	2H	25.4	26.7	25.8	27.1	27.4	25.2	26.5	25.6	26.9	27.3
	3H	27.2	28.4	27.7	28.8	29.2	26.9	28.0	27.3	28.4	28.8
	4H	28.0	29.0	28.4	29.4	29.8	27.4	28.4	27.8	28.8	29.3
	6H	28.5	29.4	29.0	29.8	30.3	27.8	28.6	28.2	29.1	29.5
	8H	28.7	29.5	29.1	30.0	30.4	27.8	28.7	28.3	29.1	29.6
	12H	28.8	29.6	29.3	30.0	30.5	27.9	28.6	28.4	29.1	29.6
8H	4H	28.2	29.0	28.7	29.5	29.9	27.7	28.5	28.2	29.0	29.4
	6H	28.9	29.5	29.4	30.0	30.5	28.1	28.8	28.6	29.3	29.8
	8H	29.1	29.7	29.6	30.2	30.7	28.3	28.9	28.8	29.4	29.9
	12H	29.3	29.8	29.8	30.3	30.9	28.4	28.9	28.9	29.4	30.0
12H	4H	28.2	29.0	28.7	29.4	29.9	27.7	28.5	28.2	28.9	29.4
	6H	28.9	29.5	29.4	30.0	30.5	28.2	28.8	28.7	29.3	29.8
	8H	29.2	29.7	29.7	30.2	30.8	28.4	28.9	28.9	29.4	30.0

Maximum UGR = 30.9

POLAR GRAPH



Maximum Candela = 21292.031 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.)