

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75W-4-L85-850-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM 4792061012.01  
[TESTLAB] UL, LLC  
[ISSUE DATE] 2025-12-23  
[TEST DATE] 12/12/2025  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] 75W-4-L85-850-DIM-UNV  
[LUMINAIRE] 75W WIDE LENS LED STRIP LUMINAIRE  
[LAMP] LED  
[BALLAST] 0-10V DIMMING DRIVER

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8584
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	56.2
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.71 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.08 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18835	16870	16704
55	16309	14443	14665
65	13710	12370	13069
75	10995	10806	12216
85	8065	10630	12907

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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	2778.145	2778.145	2778.145	2778.145	2778.145
0.5	2764.970	2775.510	2777.267	2776.388	2794.833
1.0	2764.970	2776.388	2776.388	2775.510	2793.955
1.5	2762.335	2776.388	2775.510	2774.632	2794.833
2.0	2761.457	2773.754	2775.510	2773.754	2792.198
2.5	2761.457	2773.754	2772.875	2772.875	2790.442
3.0	2758.822	2771.119	2771.119	2771.119	2788.685
3.5	2757.065	2768.484	2768.484	2769.362	2786.928
4.0	2755.309	2766.727	2766.727	2765.849	2785.172
4.5	2750.917	2764.092	2764.970	2764.092	2782.537
5.0	2748.282	2761.457	2761.457	2761.457	2779.902
5.5	2744.769	2757.944	2757.944	2758.822	2776.388
6.0	2743.012	2753.552	2754.430	2754.430	2772.875
6.5	2736.864	2750.039	2750.917	2750.917	2768.484
7.0	2733.351	2745.647	2746.525	2745.647	2764.970
7.5	2729.837	2740.377	2742.134	2742.134	2760.579
8.0	2725.446	2736.864	2736.864	2736.864	2754.430
8.5	2721.054	2730.716	2732.472	2732.472	2749.160
9.0	2714.027	2726.324	2727.202	2726.324	2743.012
9.5	2709.636	2720.176	2720.176	2720.176	2739.499
10.0	2702.609	2713.149	2713.149	2714.906	2732.472
10.5	2696.461	2707.001	2707.879	2707.879	2726.324
11.0	2690.313	2700.852	2701.731	2700.852	2719.297
11.5	2682.408	2693.826	2695.582	2693.826	2713.149
12.0	2675.381	2685.921	2687.678	2687.678	2705.244
12.5	2668.354	2678.016	2680.651	2678.894	2698.217
13.0	2660.449	2670.989	2672.746	2671.868	2690.313
13.5	2652.545	2662.206	2663.963	2663.963	2683.286
14.0	2642.883	2653.423	2655.179	2655.179	2673.624
14.5	2634.978	2644.640	2646.396	2646.396	2666.598
15.0	2627.073	2635.856	2636.735	2636.735	2656.058
15.5	2617.411	2625.316	2627.951	2627.951	2645.518
16.0	2606.872	2615.655	2618.290	2618.290	2636.735
16.5	2598.088	2605.115	2607.750	2608.628	2627.073
17.0	2585.792	2593.697	2597.210	2598.088	2616.533
17.5	2575.252	2583.157	2586.670	2587.548	2605.993
18.0	2565.590	2572.617	2575.252	2577.887	2596.332
18.5	2554.172	2562.077	2564.712	2566.469	2584.913
19.0	2542.754	2548.902	2553.294	2555.050	2572.617
19.5	2529.579	2538.362	2541.875	2545.389	2561.199
20.0	2515.526	2525.187	2529.579	2532.214	2548.902
20.5	2501.472	2513.769	2517.282	2520.796	2537.484
21.0	2490.054	2499.716	2502.351	2509.377	2525.187
21.5	2476.879	2486.541	2490.933	2494.446	2512.012
22.0	2462.826	2474.244	2478.636	2482.149	2500.594
22.5	2450.530	2458.434	2464.583	2469.853	2487.419
23.0	2435.598	2444.381	2450.530	2455.799	2473.366
23.5	2419.788	2429.450	2437.355	2442.625	2460.191
24.0	2403.978	2414.518	2422.423	2428.571	2446.138
24.5	2390.803	2399.587	2408.370	2413.640	2430.328
25.0	2375.872	2384.655	2394.317	2399.587	2416.275
25.5	2359.184	2369.724	2377.628	2385.533	2399.587
26.0	2343.374	2353.035	2363.575	2370.602	2386.412
26.5	2326.686	2336.347	2348.644	2354.792	2371.480

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**CANDELA TABULATION - (Cont.)**

27.0	2309.997	2318.781	2333.712	2341.617	2356.549
27.5	2290.674	2302.092	2317.024	2324.051	2341.617
28.0	2276.621	2285.404	2300.336	2308.241	2324.929
28.5	2258.176	2268.716	2283.648	2291.553	2308.241
29.0	2240.610	2251.150	2266.081	2275.743	2292.431
29.5	2222.165	2232.705	2248.515	2258.176	2274.864
30.0	2203.720	2215.138	2230.948	2243.245	2259.933
30.5	2184.397	2195.815	2214.260	2226.556	2242.366
31.0	2165.952	2177.370	2195.815	2208.990	2223.921
31.5	2146.629	2159.804	2178.248	2192.302	2208.112
32.0	2128.184	2139.602	2160.682	2173.857	2189.667
32.5	2107.982	2120.279	2142.237	2156.290	2172.100
33.0	2088.659	2101.834	2122.036	2138.724	2154.534
33.5	2070.214	2082.511	2104.469	2119.401	2136.089
34.0	2048.256	2062.309	2085.146	2101.834	2119.401
34.5	2028.055	2042.986	2066.701	2082.511	2100.077
35.0	2009.610	2021.906	2048.256	2064.944	2081.633
35.5	1985.895	2002.583	2028.055	2045.621	2062.309
36.0	1967.450	1981.503	2008.732	2026.298	2043.865
36.5	1944.614	1960.424	1988.530	2007.853	2026.298
37.0	1923.534	1940.222	1968.329	1987.652	2007.853
37.5	1901.576	1918.264	1949.005	1970.085	1987.652
38.0	1879.618	1897.184	1927.926	1949.884	1966.572
38.5	1856.781	1875.226	1907.724	1931.439	1947.249
39.0	1836.580	1853.268	1886.644	1911.237	1931.439
39.5	1813.743	1833.066	1866.443	1891.036	1910.359
40.0	1789.150	1810.230	1845.363	1872.591	1890.158
40.5	1766.314	1788.272	1825.161	1853.268	1870.834
41.0	1745.234	1766.314	1804.082	1833.066	1850.633
41.5	1722.397	1744.355	1783.002	1812.865	1831.310
42.0	1699.561	1722.397	1761.922	1793.542	1811.987
42.5	1677.603	1699.561	1739.964	1773.340	1791.785
43.0	1653.010	1677.603	1719.762	1754.017	1772.462
43.5	1631.930	1654.766	1697.804	1733.816	1753.139
44.0	1608.215	1631.930	1675.846	1714.492	1732.937
44.5	1586.257	1609.972	1653.888	1693.413	1712.736
45.0	1563.420	1587.135	1632.808	1674.968	1694.291
45.5	1540.584	1565.177	1611.728	1655.645	1674.968
46.0	1517.747	1542.340	1588.892	1634.565	1654.766
46.5	1494.911	1519.504	1569.569	1616.998	1635.443
47.0	1471.196	1497.546	1547.610	1595.918	1616.120
47.5	1448.360	1474.709	1525.652	1575.717	1595.918
48.0	1426.401	1451.873	1503.694	1557.272	1575.717
48.5	1401.808	1429.915	1483.493	1536.192	1556.394
49.0	1379.850	1406.200	1460.656	1515.991	1536.192
49.5	1357.014	1384.242	1439.576	1496.668	1516.869
50.0	1333.299	1361.405	1418.496	1475.588	1496.668
50.5	1311.341	1339.447	1396.538	1458.021	1478.223
51.0	1288.504	1316.611	1377.215	1437.820	1458.899
51.5	1266.546	1293.774	1355.257	1418.496	1439.576
52.0	1242.831	1271.816	1334.177	1398.295	1420.253
52.5	1219.995	1248.980	1313.976	1378.093	1401.808
53.0	1196.280	1227.021	1292.896	1360.527	1381.607
53.5	1173.444	1205.063	1272.694	1340.325	1363.162
54.0	1151.485	1183.105	1252.493	1321.002	1344.717
54.5	1130.406	1160.269	1232.291	1303.436	1326.272

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**CANDELA TABULATION - (Cont.)**

55.0	1108.447	1139.189	1212.090	1283.234	1309.584
55.5	1090.003	1117.231	1191.888	1264.789	1289.383
56.0	1068.923	1097.907	1172.565	1246.345	1270.938
56.5	1046.965	1077.706	1152.364	1227.900	1253.371
57.0	1025.885	1057.505	1133.041	1209.455	1234.926
57.5	1003.927	1036.425	1116.352	1191.888	1214.725
58.0	981.968	1015.345	1097.029	1172.565	1199.793
58.5	960.889	994.265	1077.706	1155.877	1182.227
59.0	939.809	973.185	1059.261	1140.945	1163.782
59.5	918.729	952.984	1042.573	1122.501	1149.729
60.0	897.649	931.904	1024.128	1104.934	1132.162
60.5	877.009	911.702	1005.683	1088.246	1114.596
61.0	856.280	891.501	987.238	1071.558	1097.907
61.5	835.727	871.475	968.794	1054.870	1082.098
62.0	815.526	851.625	951.227	1039.060	1065.409
62.5	795.588	831.950	932.782	1023.250	1049.600
63.0	775.386	812.364	915.216	1006.562	1035.546
63.5	755.360	793.041	898.527	990.752	1019.736
64.0	735.862	773.981	880.961	974.064	1003.927
64.5	716.451	755.360	864.273	958.254	988.117
65.0	697.215	736.652	847.497	942.444	973.185
65.5	678.243	718.383	830.896	926.634	957.375
66.0	659.008	700.114	814.472	910.824	942.444
66.5	640.212	682.284	798.135	895.893	927.512
67.0	621.855	664.629	781.886	880.083	912.581
67.5	603.410	647.238	765.988	865.327	897.649
68.0	585.229	630.287	750.178	850.395	883.596
68.5	567.311	613.423	734.720	835.903	868.928
69.0	549.481	596.735	719.437	821.323	855.050
69.5	531.914	580.398	704.330	807.182	841.261
70.0	514.436	564.324	689.486	793.304	827.559
70.5	497.396	548.427	674.642	779.426	814.033
71.0	480.532	532.705	660.062	765.725	800.682
71.5	463.844	517.334	645.833	752.374	787.507
72.0	447.507	501.875	631.604	739.111	774.684
72.5	431.082	486.944	617.727	726.112	761.948
73.0	415.097	472.100	603.937	713.289	749.124
73.5	399.550	457.432	590.586	700.553	736.652
74.0	384.180	443.203	577.060	688.256	724.092
74.5	369.073	428.887	564.149	676.048	712.235
75.0	354.053	414.921	551.325	664.102	700.728
75.5	339.297	401.307	538.677	652.245	689.047
76.0	324.981	387.957	526.381	640.475	677.629
76.5	310.752	374.782	514.172	628.969	666.210
77.0	296.699	361.695	502.139	617.551	655.143
77.5	282.909	348.959	490.282	606.484	644.164
78.0	269.295	336.487	478.776	595.593	633.361
78.5	255.944	324.190	467.357	584.614	622.645
79.0	242.857	312.245	456.290	573.986	612.105
79.5	229.858	300.387	445.399	563.622	601.565
80.0	217.034	288.706	434.508	553.345	591.553
80.5	204.562	277.375	423.968	542.981	581.364
81.0	192.441	266.221	413.867	532.968	571.439
81.5	180.145	255.329	403.766	523.043	561.514
82.0	168.287	244.702	393.929	513.469	551.940
82.5	156.693	234.250	384.268	503.896	542.542

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**CANDELA TABULATION - (Cont.)**

83.0	145.275	224.061	374.782	494.673	533.407
83.5	133.945	214.136	365.735	485.275	523.921
84.0	122.878	204.474	356.952	476.404	514.875
84.5	111.899	195.164	348.344	467.621	506.004
85.0	101.359	186.117	339.912	458.925	497.133
85.5	90.819	177.510	331.656	450.493	488.525
86.0	80.455	169.253	323.575	442.237	480.005
86.5	70.178	161.524	315.934	433.981	471.485
87.0	60.077	154.058	308.205	426.164	463.141
87.5	49.977	147.120	300.914	418.259	455.149
88.0	39.964	140.356	293.712	410.617	447.068
88.5	29.863	134.033	286.773	403.064	439.251
89.0	20.641	128.060	280.186	395.774	431.522
89.5	13.087	122.526	273.774	388.747	423.968
90.0	7.817	117.608	267.889	382.072	417.029
90.5	5.533	113.304	262.444	375.397	409.651
91.0	5.885	109.352	256.910	368.633	402.625
91.5	7.027	105.575	251.377	362.222	395.598
92.0	8.344	102.413	246.107	355.722	388.747
92.5	9.749	99.690	241.627	349.486	381.984
93.0	11.155	97.319	236.972	343.601	375.484
93.5	12.648	95.474	232.581	337.804	369.336
94.0	14.229	93.893	228.453	332.359	363.363
94.5	15.722	92.751	224.588	326.825	357.215
95.0	17.215	91.873	220.987	321.379	351.330
95.5	18.621	91.258	217.649	316.197	345.533
96.0	19.762	90.995	214.751	311.191	339.824
96.5	20.904	90.995	211.852	306.536	334.554
97.0	21.958	91.082	209.217	302.056	329.284
97.5	23.100	91.434	206.758	297.753	324.454
98.0	24.066	91.785	204.562	293.537	319.535
98.5	25.208	92.224	202.718	289.496	314.968
99.0	26.350	92.751	200.785	285.719	310.488
99.5	27.579	93.366	199.117	282.118	306.097
100.0	28.633	93.981	197.799	278.781	302.144
100.5	29.863	94.684	196.482	275.531	298.104
101.0	30.917	95.386	195.515	272.457	294.503
101.5	31.971	96.089	194.549	269.558	290.814
102.0	32.937	96.792	193.847	266.835	287.564
102.5	33.903	97.494	193.144	264.288	284.314
103.0	34.870	98.285	192.617	261.741	281.416
103.5	35.924	99.075	192.178	259.545	278.429
104.0	37.065	99.778	191.739	257.525	275.707
104.5	38.207	100.568	191.475	255.593	273.159
105.0	39.261	101.359	191.212	253.836	270.700
105.5	40.227	102.061	190.948	251.992	268.592
106.0	41.369	102.940	190.860	250.411	266.484
106.5	42.423	103.730	190.860	248.918	264.376
107.0	43.477	104.609	190.860	247.512	262.619
107.5	44.443	105.311	190.860	246.458	260.775
108.0	45.673	106.190	190.860	245.229	258.931
108.5	46.815	107.068	190.948	244.350	257.701
109.0	47.957	107.771	191.124	243.208	256.471
109.5	49.186	108.561	191.212	242.418	255.154
110.0	50.416	109.352	191.387	241.540	254.100
110.5	51.646	110.142	191.563	240.749	253.134

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**CANDELA TABULATION - (Cont.)**

111.0	52.875	110.933	191.651	240.046	252.080
111.5	54.105	111.635	191.739	239.519	251.201
112.0	55.422	112.426	191.914	238.993	250.147
112.5	56.740	113.216	192.090	238.378	249.181
113.0	58.145	114.007	192.353	237.939	248.742
113.5	59.463	114.709	192.353	237.499	248.127
114.0	60.868	115.412	192.529	237.148	247.512
114.5	62.185	116.203	192.705	236.709	246.985
115.0	63.591	116.817	192.880	236.445	246.546
115.5	64.996	117.608	192.880	236.182	246.107
116.0	66.314	118.311	193.144	235.831	245.580
116.5	67.543	119.013	193.320	235.479	245.404
117.0	68.949	119.804	193.495	235.479	244.965
117.5	70.266	120.418	193.671	235.128	244.702
118.0	71.408	121.033	193.847	234.952	244.350
118.5	72.725	121.648	193.934	234.689	244.262
119.0	73.867	122.263	194.110	234.425	243.735
119.5	75.097	122.702	194.286	234.162	243.648
120.0	76.239	123.141	194.198	233.986	243.208
120.5	77.381	123.668	194.286	233.635	243.121
121.0	78.522	124.020	194.461	233.371	242.769
121.5	79.752	124.459	194.374	233.020	242.594
122.0	80.894	124.986	194.374	232.844	242.330
122.5	82.036	125.513	194.461	232.493	241.715
123.0	83.177	126.040	194.374	232.142	241.627
123.5	84.231	126.479	194.198	231.878	241.100
124.0	85.110	126.830	194.198	231.615	241.013
124.5	85.988	127.182	194.198	231.175	240.661
125.0	86.866	127.621	194.022	230.736	240.310
125.5	87.745	127.884	193.847	230.473	239.871
126.0	88.535	128.236	193.759	229.946	239.519
126.5	89.238	128.675	193.583	229.594	239.256
127.0	90.028	128.850	193.407	229.155	238.905
127.5	90.643	129.114	193.144	228.716	238.290
128.0	91.434	129.114	193.056	228.189	237.939
128.5	92.049	129.290	192.705	227.750	237.587
129.0	92.663	129.465	192.353	227.311	237.148
129.5	93.190	129.729	191.739	226.608	236.621
130.0	93.630	129.904	191.124	226.169	236.094
130.5	94.069	130.080	190.421	225.642	235.479
131.0	94.332	130.344	189.718	224.851	234.864
131.5	94.684	130.607	189.016	224.149	234.250
132.0	95.035	130.871	188.225	223.710	233.723
132.5	95.211	130.958	187.347	222.831	232.932
133.0	95.474	131.046	186.996	222.041	231.966
133.5	95.562	130.958	186.469	221.426	231.527
134.0	95.650	130.783	186.117	220.723	230.912
134.5	95.913	130.431	185.678	219.933	229.770
135.0	96.177	130.168	185.151	218.879	228.892
135.5	96.089	129.465	184.712	218.176	228.189
136.0	96.265	129.377	184.097	217.298	227.311
136.5	96.440	129.114	183.658	216.332	226.432
137.0	96.528	128.675	182.955	215.541	225.466
137.5	96.616	128.236	182.340	214.487	224.588
138.0	96.792	127.972	181.462	213.609	223.534
138.5	96.792	127.621	180.320	212.643	222.743

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

139.0	96.704	127.357	179.003	211.501	221.514
139.5	96.704	127.006	177.422	210.271	220.635
140.0	96.704	126.567	175.665	209.129	219.406
140.5	96.704	126.303	174.084	207.724	218.088
141.0	96.704	126.128	172.328	206.231	217.034
141.5	96.704	125.776	170.571	204.913	215.980
142.0	96.616	125.601	168.902	203.245	214.839
142.5	96.528	125.337	167.145	201.751	213.521
143.0	96.440	125.074	165.477	200.346	212.204
143.5	96.440	124.722	163.544	198.853	210.974
144.0	96.440	124.283	161.875	197.711	209.569
144.5	96.704	123.932	160.207	196.394	208.339
145.0	97.055	123.580	158.362	195.252	206.934
145.5	97.670	123.141	156.693	194.110	205.528
146.0	98.460	122.790	155.112	192.880	204.211
146.5	99.251	122.439	153.795	191.563	202.718
147.0	100.041	121.999	152.302	190.245	201.224
147.5	100.744	121.824	151.160	188.928	199.731
148.0	101.534	121.472	149.930	187.435	198.150
148.5	102.237	121.385	148.964	186.029	196.569
149.0	103.115	121.385	147.910	184.624	195.164
149.5	103.730	121.648	146.944	183.131	193.407
150.0	104.433	121.824	145.978	181.726	191.563
150.5	105.048	121.912	144.924	180.145	189.631
151.0	105.487	122.175	143.518	178.564	187.347
151.5	105.926	122.263	142.025	176.895	185.239
152.0	106.453	122.439	140.620	175.138	183.131
152.5	106.980	122.614	139.303	173.294	180.847
153.0	107.331	122.702	137.897	171.186	179.003
153.5	107.771	122.966	136.404	168.990	176.895
154.0	108.122	122.878	135.087	166.531	175.138
154.5	108.561	122.966	133.945	164.159	173.382
155.0	108.737	123.141	132.803	161.436	172.064
155.5	109.088	123.229	131.661	158.889	170.659
156.0	109.352	123.229	130.871	156.166	169.429
156.5	109.791	123.229	130.080	153.444	167.848
157.0	109.966	123.405	129.290	150.984	166.355
157.5	110.230	123.405	128.763	148.613	164.686
158.0	110.581	123.317	128.499	146.153	163.105
158.5	110.669	123.317	128.148	144.133	161.261
159.0	111.108	123.053	127.884	142.201	159.680
159.5	111.460	122.878	127.445	140.356	157.923
160.0	111.899	122.702	127.006	138.863	156.166
160.5	112.426	122.614	126.655	137.458	154.498
161.0	112.777	122.351	126.567	135.965	152.829
161.5	113.304	122.263	126.391	134.472	151.599
162.0	113.743	122.087	126.655	133.242	150.545
162.5	114.182	122.087	126.830	131.925	149.315
163.0	114.709	121.999	126.918	130.519	148.261
163.5	115.149	121.999	127.094	129.026	146.944
164.0	115.324	121.999	127.269	127.182	145.714
164.5	115.588	121.824	127.094	125.776	144.133
165.0	115.851	121.824	126.830	124.371	142.552
165.5	116.115	121.736	126.567	123.405	140.883
166.0	116.378	121.648	126.391	122.351	138.336
166.5	116.642	121.648	126.128	121.472	137.107

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

167.0	116.993	121.648	125.864	120.682	136.141
167.5	117.169	121.648	125.337	119.979	135.174
168.0	117.432	121.648	124.898	119.277	134.384
168.5	117.959	121.297	124.283	118.662	133.418
169.0	118.223	121.385	123.844	118.047	132.452
169.5	118.662	121.121	123.141	117.344	131.398
170.0	118.838	121.033	122.526	116.466	130.431
170.5	119.101	120.858	121.736	115.500	129.377
171.0	119.277	120.682	120.858	114.446	128.060
171.5	119.540	120.682	120.067	113.480	127.006
172.0	119.979	120.506	119.628	112.514	125.425
172.5	120.243	120.506	119.101	111.460	123.668
173.0	120.594	120.331	118.662	110.493	120.682
173.5	121.033	120.418	118.486	109.527	116.203
174.0	121.385	120.418	118.398	108.737	110.669
174.5	121.648	120.418	118.223	107.946	104.082
175.0	122.175	120.682	118.135	107.331	96.616
175.5	122.351	120.770	118.047	107.068	88.799
176.0	122.702	120.945	118.047	106.804	83.704
176.5	122.790	121.033	117.959	106.804	80.103
177.0	123.141	121.209	117.784	106.541	76.414
177.5	123.229	121.209	117.520	106.453	75.624
178.0	123.580	121.385	117.432	106.365	75.800
178.5	123.756	121.472	117.520	106.190	75.975
179.0	123.932	121.472	117.432	105.926	76.063
179.5	124.107	121.472	117.344	105.838	76.151
180.0	111.284	111.284	111.284	111.284	111.284



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75W-4-L85-850-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1005.57	N.A.	11.70
0-30	2107.01	N.A.	24.50
0-40	3384.63	N.A.	39.40
0-60	5728.04	N.A.	66.70
0-80	7136.12	N.A.	83.10
0-90	7490.25	N.A.	87.30
10-90	7228.09	N.A.	84.20
20-40	2379.05	N.A.	27.70
20-50	3637.19	N.A.	42.40
40-70	3178.17	N.A.	37.00
60-80	1408.08	N.A.	16.40
70-80	573.32	N.A.	6.70
80-90	354.13	N.A.	4.10
90-110	413.62	N.A.	4.80
90-120	587.76	N.A.	6.80
90-130	748.02	N.A.	8.70
90-150	982.01	N.A.	11.40
90-180	1093.87	N.A.	12.70
110-180	680.24	N.A.	7.90
0-180	8584.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	262.16
10-20	743.42
20-30	1101.44
30-40	1277.61
40-50	1258.13
50-60	1085.28
60-70	834.76
70-80	573.32
80-90	354.13
90-100	226.89
100-110	186.73
110-120	174.13
120-130	160.26
130-140	134.67
140-150	99.32
150-160	64.94
160-170	35.78
170-180	11.15

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75W-4-L85-850-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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87
1	105	100	95	91	101	96	92	89	90	86	83	84	81	79	78	76	74	71
2	95	87	80	74	92	84	78	72	78	73	69	73	69	65	68	65	62	59
3	87	76	68	62	83	74	66	60	69	63	58	65	60	55	61	56	53	50
4	80	68	59	52	76	66	58	51	62	55	49	58	52	47	54	49	45	43
5	73	61	52	45	70	59	51	44	55	48	43	52	46	41	49	44	40	37
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	39	35	33
7	63	50	41	35	60	48	40	34	46	38	33	43	37	32	41	35	31	29
8	59	45	37	31	56	44	36	31	42	35	30	40	33	29	37	32	28	26
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	35	29	25	23
10	51	38	31	25	49	37	30	25	36	29	24	34	28	24	32	27	23	21

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75W-4-L85-850-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

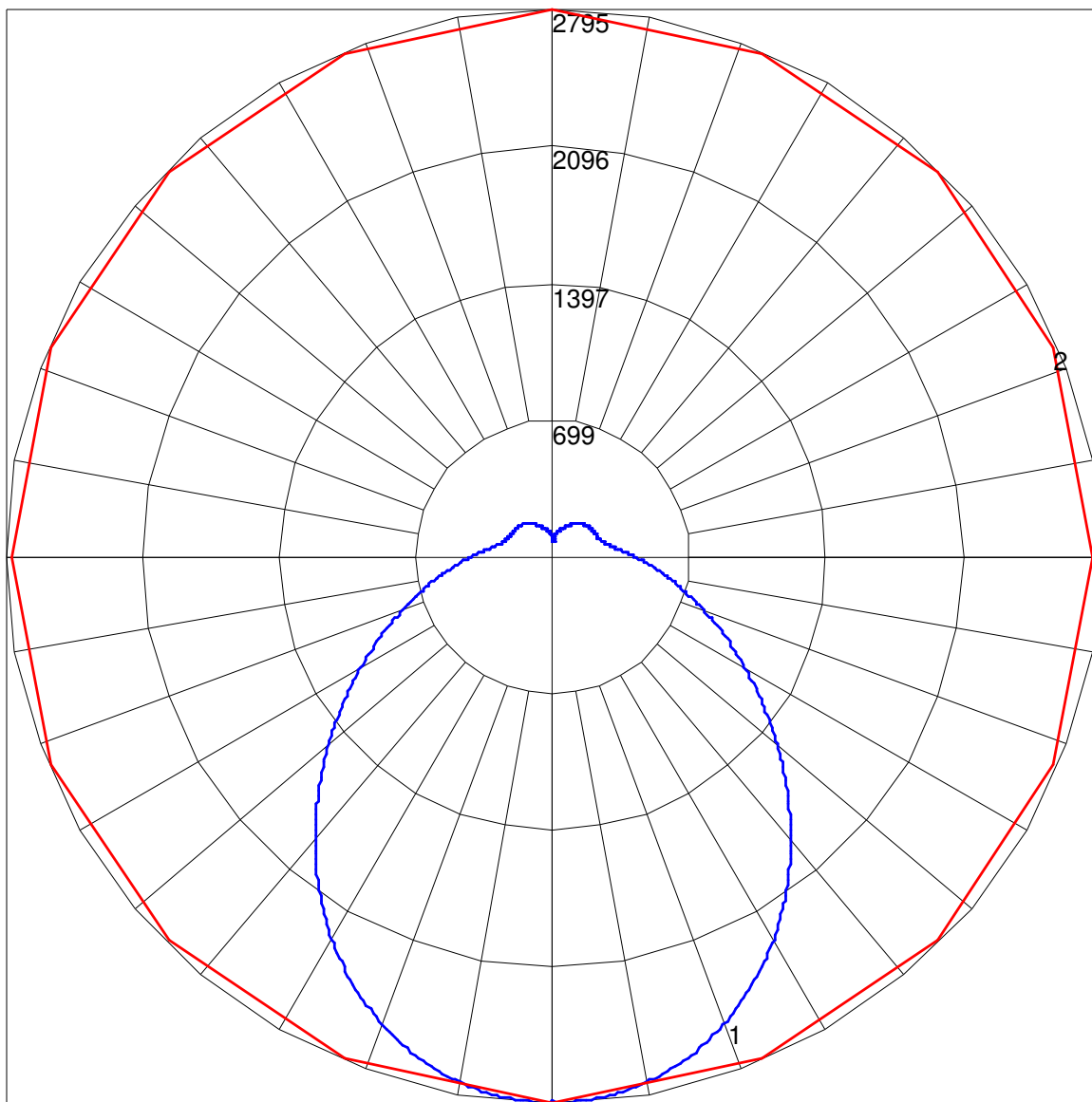
Reflectances

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	19.3	20.7	19.9	21.2	21.8	21.0	22.3	21.5	22.9	23.5
	3H	20.7	21.9	21.2	22.5	23.1	23.2	24.4	23.7	25.0	25.6
	4H	21.1	22.3	21.7	22.9	23.5	24.2	25.4	24.8	26.0	26.7
	6H	21.4	22.5	22.0	23.1	23.8	25.4	26.4	26.0	27.0	27.7
	8H	21.5	22.5	22.1	23.1	23.8	25.9	27.0	26.6	27.6	28.3
	12H	21.5	22.5	22.1	23.1	23.8	26.6	27.6	27.2	28.2	28.9
4H	2H	20.0	21.2	20.6	21.8	22.5	21.4	22.5	22.0	23.1	23.8
	3H	21.6	22.6	22.2	23.2	23.9	23.8	24.8	24.4	25.4	26.1
	4H	22.2	23.1	22.8	23.7	24.5	25.1	25.9	25.7	26.6	27.3
	6H	22.6	23.4	23.3	24.1	24.8	26.4	27.2	27.0	27.8	28.6
	8H	22.7	23.5	23.4	24.1	24.9	27.1	27.8	27.7	28.5	29.2
	12H	22.8	23.5	23.5	24.2	24.9	27.9	28.5	28.5	29.2	30.0
8H	4H	22.8	23.5	23.4	24.2	24.9	25.2	26.0	25.9	26.6	27.4
	6H	23.4	24.0	24.0	24.7	25.4	26.7	27.4	27.4	28.1	28.8
	8H	23.6	24.1	24.2	24.8	25.6	27.6	28.2	28.3	28.9	29.6
	12H	23.7	24.2	24.4	24.9	25.7	28.6	29.1	29.3	29.8	30.6
12H	4H	22.9	23.6	23.6	24.3	25.0	25.2	25.9	25.9	26.6	27.4
	6H	23.6	24.2	24.3	24.9	25.7	26.8	27.4	27.5	28.0	28.8
	8H	23.9	24.4	24.6	25.1	25.9	27.7	28.2	28.4	28.9	29.7

Maximum UGR = 30.6

POLAR GRAPH



Maximum Candela = 2794.833 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.)