

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75W-4-L85-830-HE-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-L85-830-HE-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	8011
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	168
Total Luminaire Watts	47.6
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	17578	15745	15590
55	15221	13479	13686
65	12795	11544	12197
75	10262	10085	11401
85	7527	9920	12045

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75W-4-L85-830-HE-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	2592.761	2592.761	2592.761	2592.761	2592.761
0.5	2580.465	2590.301	2591.941	2591.121	2608.335
1.0	2580.465	2591.121	2591.121	2590.301	2607.515
1.5	2578.006	2591.121	2590.301	2589.482	2608.335
2.0	2577.186	2588.662	2590.301	2588.662	2605.876
2.5	2577.186	2588.662	2587.842	2587.842	2604.237
3.0	2574.727	2586.203	2586.203	2586.203	2602.597
3.5	2573.087	2583.744	2583.744	2584.563	2600.958
4.0	2571.448	2582.104	2582.104	2581.284	2599.318
4.5	2567.349	2579.645	2580.465	2579.645	2596.859
5.0	2564.890	2577.186	2577.186	2577.186	2594.400
5.5	2561.611	2573.907	2573.907	2574.727	2591.121
6.0	2559.972	2569.808	2570.628	2570.628	2587.842
6.5	2554.234	2566.530	2567.349	2567.349	2583.744
7.0	2550.955	2562.431	2563.251	2562.431	2580.465
7.5	2547.676	2557.513	2559.152	2559.152	2576.366
8.0	2543.578	2554.234	2554.234	2554.234	2570.628
8.5	2539.479	2548.496	2550.135	2550.135	2565.710
9.0	2532.921	2544.397	2545.217	2544.397	2559.972
9.5	2528.823	2538.659	2538.659	2538.659	2556.693
10.0	2522.265	2532.102	2532.102	2533.741	2550.135
10.5	2516.527	2526.364	2527.183	2527.183	2544.397
11.0	2510.789	2520.626	2521.445	2520.626	2537.840
11.5	2503.412	2514.068	2515.707	2514.068	2532.102
12.0	2496.854	2506.690	2508.330	2508.330	2524.724
12.5	2490.296	2499.313	2501.772	2500.133	2518.166
13.0	2482.919	2492.755	2494.395	2493.575	2510.789
13.5	2475.541	2484.558	2486.197	2486.197	2504.231
14.0	2466.524	2476.361	2478.000	2478.000	2495.214
14.5	2459.147	2468.164	2469.803	2469.803	2488.657
15.0	2451.769	2459.967	2460.786	2460.786	2478.820
15.5	2442.753	2450.130	2452.589	2452.589	2468.983
16.0	2432.916	2441.113	2443.572	2443.572	2460.786
16.5	2424.719	2431.277	2433.736	2434.555	2451.769
17.0	2413.243	2420.620	2423.899	2424.719	2441.933
17.5	2403.406	2410.784	2414.062	2414.882	2432.096
18.0	2394.389	2400.947	2403.406	2405.865	2423.079
18.5	2383.733	2391.110	2393.570	2395.209	2412.423
19.0	2373.077	2378.815	2382.913	2384.553	2400.947
19.5	2360.781	2368.978	2372.257	2375.536	2390.291
20.0	2347.666	2356.682	2360.781	2363.240	2378.815
20.5	2334.550	2346.026	2349.305	2352.584	2368.158
21.0	2323.894	2332.911	2335.370	2341.928	2356.682
21.5	2311.598	2320.615	2324.713	2327.992	2344.387
22.0	2298.483	2309.139	2313.237	2316.516	2333.730
22.5	2287.007	2294.384	2300.122	2305.040	2321.435
23.0	2273.071	2281.269	2287.007	2291.925	2308.319
23.5	2258.317	2267.333	2274.711	2279.629	2296.023
24.0	2243.562	2253.398	2260.776	2266.514	2282.908
24.5	2231.266	2239.463	2247.660	2252.579	2268.153
25.0	2217.331	2225.528	2234.545	2239.463	2255.038
25.5	2201.756	2211.593	2218.970	2226.348	2239.463
26.0	2187.001	2196.018	2205.855	2212.412	2227.167
26.5	2171.427	2180.444	2191.920	2197.658	2213.232

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75W-4-L85-830-HE-DIM-UNV_.IES

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27.0	2155.852	2164.049	2177.984	2185.362	2199.297
27.5	2137.818	2148.475	2162.410	2168.968	2185.362
28.0	2124.703	2132.900	2146.835	2154.213	2169.787
28.5	2107.489	2117.325	2131.261	2138.638	2154.213
29.0	2091.095	2100.931	2114.866	2123.883	2139.458
29.5	2073.881	2083.717	2098.472	2107.489	2123.063
30.0	2056.666	2067.323	2082.078	2093.554	2109.128
30.5	2038.633	2049.289	2066.503	2077.979	2092.734
31.0	2021.419	2032.075	2049.289	2061.585	2075.520
31.5	2003.385	2015.681	2032.895	2046.010	2060.765
32.0	1986.171	1996.827	2016.500	2028.796	2043.551
32.5	1967.317	1978.794	1999.286	2012.402	2027.157
33.0	1949.284	1961.579	1980.433	1996.008	2010.762
33.5	1932.070	1943.546	1964.039	1977.974	1993.548
34.0	1911.577	1924.692	1946.005	1961.579	1977.974
34.5	1892.723	1906.659	1928.791	1943.546	1959.940
35.0	1875.509	1886.985	1911.577	1927.151	1942.726
35.5	1853.377	1868.952	1892.723	1909.118	1924.692
36.0	1836.163	1849.278	1874.690	1891.084	1907.478
36.5	1814.850	1829.605	1855.836	1873.870	1891.084
37.0	1795.177	1810.752	1836.983	1855.016	1873.870
37.5	1774.684	1790.259	1818.949	1838.622	1855.016
38.0	1754.191	1770.586	1799.276	1819.769	1835.343
38.5	1732.879	1750.093	1780.422	1802.555	1817.310
39.0	1714.025	1729.600	1760.749	1783.701	1802.555
39.5	1692.713	1710.746	1741.896	1764.848	1782.881
40.0	1669.761	1689.434	1722.223	1747.634	1764.028
40.5	1648.448	1668.941	1703.369	1729.600	1745.994
41.0	1628.775	1648.448	1683.696	1710.746	1727.141
41.5	1607.462	1627.955	1664.023	1691.893	1709.107
42.0	1586.150	1607.462	1644.350	1673.859	1691.073
42.5	1565.657	1586.150	1623.857	1655.006	1672.220
43.0	1542.705	1565.657	1605.003	1636.972	1654.186
43.5	1523.032	1544.344	1584.510	1618.119	1636.152
44.0	1500.899	1523.032	1564.017	1600.085	1617.299
44.5	1480.406	1502.539	1543.525	1580.412	1598.445
45.0	1459.094	1481.226	1523.851	1563.198	1581.231
45.5	1437.781	1460.733	1504.178	1545.164	1563.198
46.0	1416.469	1439.421	1482.866	1525.491	1544.344
46.5	1395.156	1418.108	1464.832	1509.096	1526.310
47.0	1373.024	1397.615	1444.339	1489.423	1508.277
47.5	1351.711	1376.303	1423.846	1470.570	1489.423
48.0	1331.218	1354.990	1403.353	1453.356	1470.570
48.5	1308.266	1334.497	1384.500	1433.683	1452.536
49.0	1287.773	1312.365	1363.187	1414.829	1433.683
49.5	1266.461	1291.872	1343.514	1396.795	1415.649
50.0	1244.328	1270.559	1323.841	1377.122	1396.795
50.5	1223.835	1250.066	1303.348	1360.728	1379.581
51.0	1202.523	1228.754	1285.314	1341.874	1361.548
51.5	1182.030	1207.441	1264.821	1323.841	1343.514
52.0	1159.898	1186.948	1245.148	1304.987	1325.480
52.5	1138.585	1165.636	1226.295	1286.134	1308.266
53.0	1116.453	1145.143	1206.621	1269.739	1289.413
53.5	1095.140	1124.650	1187.768	1250.886	1272.199
54.0	1074.647	1104.157	1168.914	1232.852	1254.985
54.5	1054.974	1082.844	1150.061	1216.458	1237.771

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75W-4-L85-830-HE-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	1034.481	1063.171	1131.208	1197.605	1222.196
55.5	1017.267	1042.678	1112.354	1180.390	1203.343
56.0	997.594	1024.645	1094.320	1163.176	1186.129
56.5	977.101	1005.791	1075.467	1145.962	1169.734
57.0	957.428	986.938	1057.433	1128.748	1152.520
57.5	936.935	967.264	1041.859	1112.354	1133.667
58.0	916.442	947.591	1023.825	1094.320	1119.732
58.5	896.769	927.918	1005.791	1078.746	1103.337
59.0	877.096	908.245	988.577	1064.811	1086.123
59.5	857.423	889.391	973.002	1047.597	1073.008
60.0	837.749	869.718	955.788	1031.202	1056.613
60.5	818.486	850.865	938.574	1015.628	1040.219
61.0	799.141	832.011	921.360	1000.053	1024.645
61.5	779.959	813.322	904.146	984.478	1009.890
62.0	761.106	794.796	887.752	969.724	994.315
62.5	742.498	776.435	870.538	954.969	979.560
63.0	723.645	758.155	854.144	939.394	966.445
63.5	704.955	740.121	838.569	924.639	951.690
64.0	686.758	722.333	822.175	909.065	936.935
64.5	668.642	704.955	806.600	894.310	922.180
65.0	650.690	687.495	790.944	879.555	908.245
65.5	632.984	670.445	775.451	864.800	893.490
66.0	615.033	653.395	760.122	850.045	879.555
66.5	597.491	636.755	744.876	836.110	865.620
67.0	580.359	620.279	729.711	821.355	851.685
67.5	563.145	604.048	714.874	807.584	837.749
68.0	546.177	588.228	700.119	793.649	824.634
68.5	529.454	572.489	685.692	780.123	810.945
69.0	512.814	556.915	671.429	766.516	797.993
69.5	496.420	541.668	657.330	753.319	785.124
70.0	480.107	526.667	643.477	740.367	772.336
70.5	464.205	511.830	629.624	727.416	759.712
71.0	448.466	497.158	616.016	714.628	747.253
71.5	432.892	482.812	602.737	702.168	734.957
72.0	417.645	468.386	589.458	689.791	722.989
72.5	402.316	454.450	576.506	677.659	711.103
73.0	387.398	440.597	563.636	665.691	699.135
73.5	372.889	426.908	551.177	653.805	687.495
74.0	358.544	413.629	538.553	642.329	675.774
74.5	344.445	400.267	526.503	630.935	664.707
75.0	330.427	387.234	514.535	619.787	653.969
75.5	316.656	374.528	502.732	608.721	643.067
76.0	303.295	362.068	491.256	597.737	632.411
76.5	290.015	349.773	479.862	586.998	621.754
77.0	276.900	337.559	468.631	576.342	611.426
77.5	264.030	325.673	457.565	566.014	601.179
78.0	251.325	314.033	446.827	555.849	591.097
78.5	238.865	302.557	436.171	545.603	581.096
79.0	226.651	291.409	425.842	535.684	571.260
79.5	214.520	280.343	415.678	526.012	561.423
80.0	202.552	269.441	405.513	516.421	552.078
80.5	190.912	258.866	395.677	506.748	542.570
81.0	179.600	248.456	386.250	497.403	533.307
81.5	168.124	238.291	376.823	488.141	524.044
82.0	157.058	228.373	367.642	479.206	515.109
82.5	146.237	218.618	358.626	470.271	506.338

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75W-4-L85-830-HE-DIM-UNV_.IES

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83.0	135.581	209.109	349.773	461.664	497.813
83.5	125.007	199.847	341.330	452.893	488.960
84.0	114.678	190.830	333.132	444.614	480.517
84.5	104.432	182.141	325.099	436.417	472.238
85.0	94.595	173.698	317.230	428.301	463.959
85.5	84.759	165.665	309.525	420.432	455.926
86.0	75.086	157.959	301.983	412.727	447.975
86.5	65.495	150.746	294.852	405.021	440.023
87.0	56.069	143.778	287.638	397.726	432.236
87.5	46.642	137.302	280.835	390.349	424.777
88.0	37.297	130.991	274.113	383.217	417.235
88.5	27.870	125.089	267.637	376.167	409.940
89.0	19.263	119.515	261.489	369.364	402.726
89.5	12.214	114.350	255.505	362.806	395.677
90.0	7.295	109.760	250.013	356.576	389.201
90.5	5.164	105.743	244.931	350.346	382.315
91.0	5.492	102.055	239.767	344.035	375.758
91.5	6.558	98.530	234.603	338.051	369.200
92.0	7.787	95.579	229.684	331.985	362.806
92.5	9.099	93.038	225.504	326.165	356.494
93.0	10.410	90.824	221.159	320.673	350.428
93.5	11.804	89.103	217.061	315.263	344.690
94.0	13.279	87.628	213.208	310.180	339.116
94.5	14.673	86.562	209.601	305.016	333.378
95.0	16.066	85.742	206.240	299.934	327.886
95.5	17.378	85.168	203.126	295.098	322.476
96.0	18.444	84.923	200.420	290.425	317.148
96.5	19.509	84.923	197.715	286.081	312.230
97.0	20.493	85.005	195.256	281.900	307.311
97.5	21.559	85.332	192.961	277.884	302.803
98.0	22.460	85.660	190.912	273.949	298.213
98.5	23.526	86.070	189.190	270.178	293.950
99.0	24.591	86.562	187.387	266.653	289.769
99.5	25.739	87.136	185.830	263.293	285.671
100.0	26.723	87.710	184.600	260.178	281.982
100.5	27.870	88.365	183.370	257.145	278.211
101.0	28.854	89.021	182.469	254.276	274.851
101.5	29.838	89.677	181.567	251.571	271.408
102.0	30.739	90.333	180.911	249.030	268.375
102.5	31.641	90.988	180.255	246.652	265.342
103.0	32.543	91.726	179.764	244.275	262.637
103.5	33.526	92.464	179.354	242.226	259.850
104.0	34.592	93.120	178.944	240.341	257.309
104.5	35.658	93.857	178.698	238.537	254.932
105.0	36.641	94.595	178.452	236.898	252.636
105.5	37.543	95.251	178.206	235.176	250.669
106.0	38.609	96.071	178.124	233.701	248.702
106.5	39.592	96.808	178.124	232.307	246.734
107.0	40.576	97.628	178.124	230.996	245.095
107.5	41.478	98.284	178.124	230.012	243.374
108.0	42.625	99.104	178.124	228.865	241.652
108.5	43.691	99.923	178.206	228.045	240.505
109.0	44.756	100.579	178.370	226.979	239.357
109.5	45.904	101.317	178.452	226.242	238.127
110.0	47.052	102.055	178.616	225.422	237.144
110.5	48.199	102.792	178.780	224.684	236.242

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75W-4-L85-830-HE-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

111.0	49.347	103.530	178.862	224.028	235.258
111.5	50.494	104.186	178.944	223.536	234.439
112.0	51.724	104.924	179.108	223.045	233.455
112.5	52.954	105.661	179.272	222.471	232.553
113.0	54.265	106.399	179.518	222.061	232.143
113.5	55.495	107.055	179.518	221.651	231.570
114.0	56.806	107.711	179.682	221.323	230.996
114.5	58.036	108.448	179.846	220.913	230.504
115.0	59.347	109.022	180.010	220.667	230.094
115.5	60.659	109.760	180.010	220.422	229.684
116.0	61.889	110.416	180.255	220.094	229.192
116.5	63.036	111.071	180.419	219.766	229.029
117.0	64.348	111.809	180.583	219.766	228.619
117.5	65.577	112.383	180.747	219.438	228.373
118.0	66.643	112.957	180.911	219.274	228.045
118.5	67.872	113.531	180.993	219.028	227.963
119.0	68.938	114.104	181.157	218.782	227.471
119.5	70.086	114.514	181.321	218.536	227.389
120.0	71.151	114.924	181.239	218.372	226.979
120.5	72.217	115.416	181.321	218.044	226.897
121.0	73.283	115.744	181.485	217.798	226.569
121.5	74.430	116.154	181.403	217.471	226.405
122.0	75.496	116.646	181.403	217.307	226.160
122.5	76.561	117.137	181.485	216.979	225.586
123.0	77.627	117.629	181.403	216.651	225.504
123.5	78.611	118.039	181.239	216.405	225.012
124.0	79.430	118.367	181.239	216.159	224.930
124.5	80.250	118.695	181.239	215.749	224.602
125.0	81.070	119.105	181.075	215.339	224.274
125.5	81.890	119.351	180.911	215.093	223.864
126.0	82.627	119.678	180.829	214.602	223.536
126.5	83.283	120.088	180.665	214.274	223.291
127.0	84.021	120.252	180.501	213.864	222.963
127.5	84.595	120.498	180.255	213.454	222.389
128.0	85.332	120.498	180.173	212.962	222.061
128.5	85.906	120.662	179.846	212.552	221.733
129.0	86.480	120.826	179.518	212.142	221.323
129.5	86.972	121.072	178.944	211.487	220.831
130.0	87.382	121.236	178.370	211.077	220.340
130.5	87.792	121.400	177.714	210.585	219.766
131.0	88.037	121.646	177.059	209.847	219.192
131.5	88.365	121.892	176.403	209.191	218.618
132.0	88.693	122.138	175.665	208.782	218.126
132.5	88.857	122.220	174.845	207.962	217.389
133.0	89.103	122.302	174.517	207.224	216.487
133.5	89.185	122.220	174.026	206.650	216.077
134.0	89.267	122.056	173.698	205.995	215.503
134.5	89.513	121.728	173.288	205.257	214.438
135.0	89.759	121.482	172.796	204.273	213.618
135.5	89.677	120.826	172.386	203.617	212.962
136.0	89.841	120.744	171.812	202.798	212.142
136.5	90.005	120.498	171.403	201.896	211.323
137.0	90.087	120.088	170.747	201.158	210.421
137.5	90.169	119.678	170.173	200.175	209.601
138.0	90.333	119.433	169.353	199.355	208.618
138.5	90.333	119.105	168.288	198.453	207.880

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75W-4-L85-830-HE-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

139.0	90.251	118.859	167.058	197.388	206.732
139.5	90.251	118.531	165.583	196.240	205.913
140.0	90.251	118.121	163.943	195.174	204.765
140.5	90.251	117.875	162.468	193.863	203.535
141.0	90.251	117.711	160.828	192.469	202.552
141.5	90.251	117.383	159.189	191.240	201.568
142.0	90.169	117.219	157.631	189.682	200.502
142.5	90.087	116.973	155.992	188.289	199.273
143.0	90.005	116.728	154.434	186.977	198.043
143.5	90.005	116.400	152.631	185.584	196.896
144.0	90.005	115.990	151.074	184.518	195.584
144.5	90.251	115.662	149.516	183.288	194.437
145.0	90.579	115.334	147.795	182.223	193.125
145.5	91.152	114.924	146.237	181.157	191.813
146.0	91.890	114.596	144.762	180.010	190.584
146.5	92.628	114.268	143.532	178.780	189.190
147.0	93.366	113.858	142.139	177.550	187.797
147.5	94.021	113.695	141.073	176.321	186.403
148.0	94.759	113.367	139.925	174.927	184.928
148.5	95.415	113.285	139.024	173.616	183.452
149.0	96.235	113.285	138.040	172.304	182.141
149.5	96.808	113.531	137.138	170.911	180.501
150.0	97.464	113.695	136.237	169.599	178.780
150.5	98.038	113.777	135.253	168.124	176.977
151.0	98.448	114.022	133.942	166.648	174.845
151.5	98.858	114.104	132.548	165.091	172.878
152.0	99.350	114.268	131.236	163.451	170.911
152.5	99.841	114.432	130.007	161.730	168.779
153.0	100.169	114.514	128.695	159.763	167.058
153.5	100.579	114.760	127.302	157.713	165.091
154.0	100.907	114.678	126.072	155.418	163.451
154.5	101.317	114.760	125.007	153.205	161.812
155.0	101.481	114.924	123.941	150.664	160.582
155.5	101.809	115.006	122.875	148.287	159.271
156.0	102.055	115.006	122.138	145.745	158.123
156.5	102.464	115.006	121.400	143.204	156.648
157.0	102.628	115.170	120.662	140.909	155.254
157.5	102.874	115.170	120.170	138.696	153.697
158.0	103.202	115.088	119.924	136.401	152.221
158.5	103.284	115.088	119.597	134.515	150.500
159.0	103.694	114.842	119.351	132.712	149.024
159.5	104.022	114.678	118.941	130.991	147.385
160.0	104.432	114.514	118.531	129.597	145.745
160.5	104.924	114.432	118.203	128.285	144.188
161.0	105.251	114.186	118.121	126.892	142.631
161.5	105.743	114.104	117.957	125.498	141.483
162.0	106.153	113.940	118.203	124.351	140.499
162.5	106.563	113.940	118.367	123.121	139.352
163.0	107.055	113.858	118.449	121.810	138.368
163.5	107.465	113.858	118.613	120.416	137.138
164.0	107.629	113.858	118.777	118.695	135.991
164.5	107.875	113.695	118.613	117.383	134.515
165.0	108.120	113.695	118.367	116.072	133.040
165.5	108.366	113.613	118.121	115.170	131.482
166.0	108.612	113.531	117.957	114.186	129.105
166.5	108.858	113.531	117.711	113.367	127.958

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75W-4-L85-830-HE-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

167.0	109.186	113.531	117.465	112.629	127.056
167.5	109.350	113.531	116.973	111.973	126.154
168.0	109.596	113.531	116.564	111.317	125.416
168.5	110.088	113.203	115.990	110.744	124.515
169.0	110.334	113.285	115.580	110.170	123.613
169.5	110.744	113.039	114.924	109.514	122.629
170.0	110.908	112.957	114.350	108.694	121.728
170.5	111.153	112.793	113.613	107.793	120.744
171.0	111.317	112.629	112.793	106.809	119.515
171.5	111.563	112.629	112.055	105.907	118.531
172.0	111.973	112.465	111.645	105.006	117.055
172.5	112.219	112.465	111.153	104.022	115.416
173.0	112.547	112.301	110.744	103.120	112.629
173.5	112.957	112.383	110.580	102.219	108.448
174.0	113.285	112.383	110.498	101.481	103.284
174.5	113.531	112.383	110.334	100.743	97.136
175.0	114.022	112.629	110.252	100.169	90.169
175.5	114.186	112.711	110.170	99.923	82.873
176.0	114.514	112.875	110.170	99.677	78.119
176.5	114.596	112.957	110.088	99.677	74.758
177.0	114.924	113.121	109.924	99.432	71.315
177.5	115.006	113.121	109.678	99.350	70.578
178.0	115.334	113.285	109.596	99.268	70.741
178.5	115.498	113.367	109.678	99.104	70.905
179.0	115.662	113.367	109.596	98.858	70.987
179.5	115.826	113.367	109.514	98.776	71.069
180.0	103.858	103.858	103.858	103.858	103.858

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75W-4-L85-830-HE-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	938.47	N.A.	11.70
0-30	1966.41	N.A.	24.50
0-40	3158.77	N.A.	39.40
0-60	5345.81	N.A.	66.70
0-80	6659.93	N.A.	83.10
0-90	6990.42	N.A.	87.30
10-90	6745.76	N.A.	84.20
20-40	2220.3	N.A.	27.70
20-50	3394.48	N.A.	42.40
40-70	2966.09	N.A.	37.00
60-80	1314.12	N.A.	16.40
70-80	535.06	N.A.	6.70
80-90	330.50	N.A.	4.10
90-110	386.02	N.A.	4.80
90-120	548.53	N.A.	6.80
90-130	698.10	N.A.	8.70
90-150	916.48	N.A.	11.40
90-180	1020.87	N.A.	12.70
110-180	634.85	N.A.	7.90
0-180	8011.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	244.66
10-20	693.81
20-30	1027.94
30-40	1192.36
40-50	1174.18
50-60	1012.86
60-70	779.06
70-80	535.06
80-90	330.50
90-100	211.75
100-110	174.27
110-120	162.51
120-130	149.57
130-140	125.69
140-150	92.69
150-160	60.60
160-170	33.39
170-180	10.40

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75W-4-L85-830-HE-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-L85-830-HE-DIM-UNV_.IES

UGR TABLE - CORRECTED

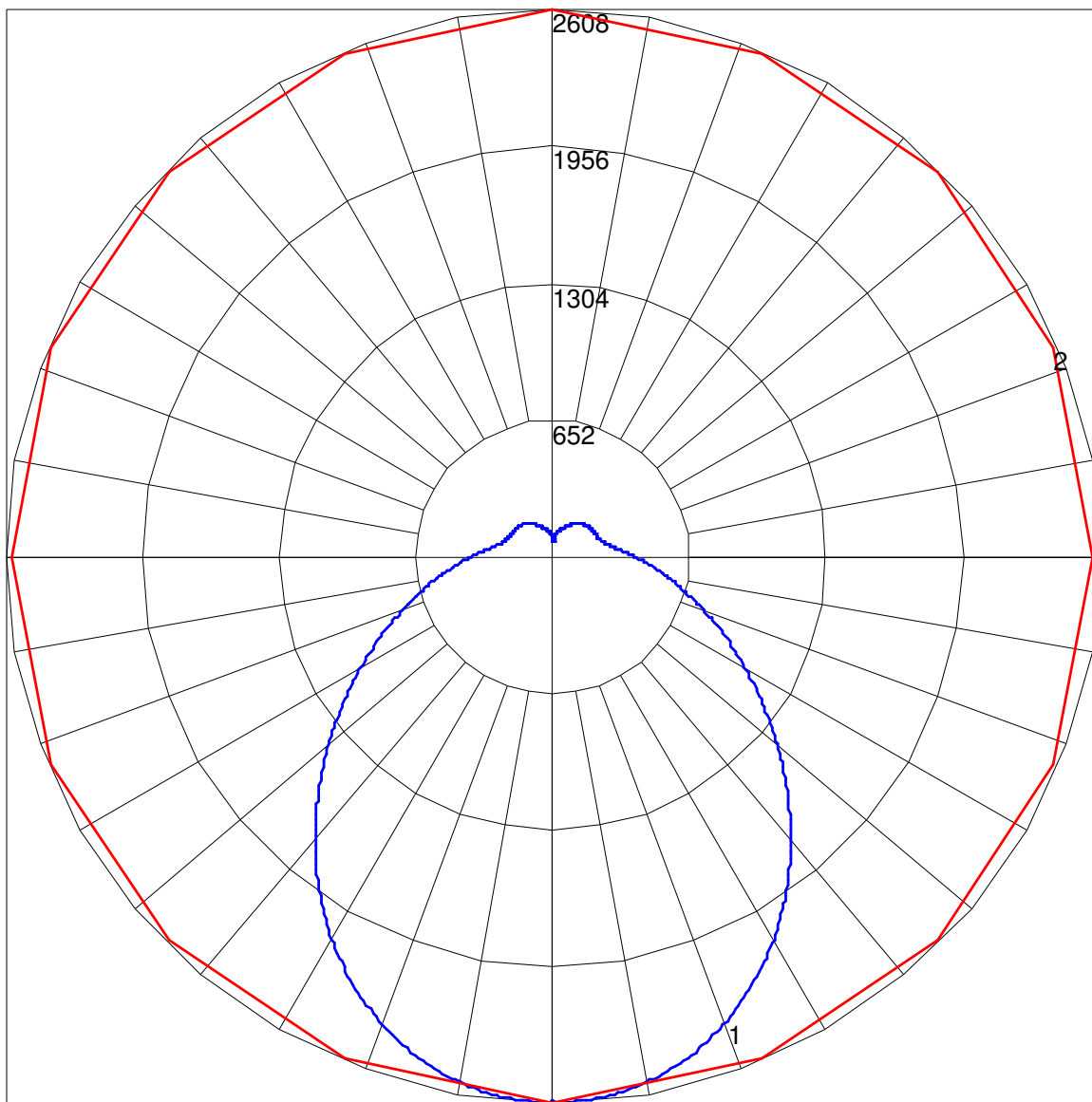
Reflectances

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	19.0	20.4	19.6	20.9	21.5	20.7	22.0	21.2	22.6	23.2
	3H	20.4	21.6	20.9	22.2	22.8	22.9	24.1	23.4	24.7	25.3
	4H	20.8	22.0	21.4	22.6	23.2	23.9	25.1	24.5	25.7	26.4
	6H	21.1	22.2	21.7	22.8	23.5	25.1	26.1	25.7	26.7	27.4
	8H	21.2	22.2	21.8	22.8	23.5	25.6	26.7	26.3	27.3	28.0
	12H	21.2	22.2	21.8	22.8	23.5	26.3	27.3	26.9	27.9	28.6
4H	2H	19.7	20.9	20.3	21.5	22.2	21.1	22.2	21.7	22.8	23.5
	3H	21.3	22.3	21.9	22.9	23.6	23.5	24.5	24.1	25.1	25.8
	4H	21.9	22.8	22.5	23.4	24.2	24.8	25.6	25.4	26.3	27.0
	6H	22.3	23.1	23.0	23.8	24.5	26.1	26.9	26.7	27.5	28.3
	8H	22.4	23.2	23.1	23.8	24.6	26.8	27.5	27.4	28.2	28.9
	12H	22.5	23.2	23.2	23.9	24.6	27.6	28.2	28.2	28.9	29.7
8H	4H	22.5	23.2	23.1	23.9	24.6	24.9	25.7	25.6	26.3	27.1
	6H	23.1	23.7	23.7	24.4	25.1	26.5	27.1	27.1	27.8	28.5
	8H	23.3	23.8	23.9	24.5	25.3	27.3	27.9	28.0	28.6	29.3
	12H	23.4	23.9	24.1	24.6	25.4	28.3	28.8	29.0	29.5	30.3
12H	4H	22.6	23.3	23.3	24.0	24.7	25.0	25.6	25.6	26.3	27.1
	6H	23.3	23.9	24.0	24.6	25.4	26.5	27.1	27.2	27.7	28.5
	8H	23.6	24.1	24.3	24.8	25.6	27.4	27.9	28.1	28.6	29.4

Maximum UGR = 30.3

POLAR GRAPH



Maximum Candela = 2608.335 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.)