



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-24-L75-835-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GENERATED FROM 15729805.03  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUE DATE] 2025-04-25  
 [TEST DATE] 3/18/2025  
 [MANUFAC] WILLIAMS INDOOR  
 [MORE] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] BAR-24-L75-835-DIM-UNV\_  
 [LUMINAIRE] Recessed 2 x 4 Indirect LED luminaire  
 [MORE] with centered LED rail & white painted housing  
 [LAMP] 112 White LEDs  
 [BALLAST] 0-10v LED DRIVER  
 [\_SEARCH\_SOURCETYPE] LED  
 [\_SEARCH\_APPLICATION] INDOOR  
 [\_SEARCH\_MOUNTING] RECESSED

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7585
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	61.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.38
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3460	3701	3852
55	3403	3768	3896
65	3318	3763	3464
75	2980	2564	1440
85	2010	1050	873

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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	2424.254	2424.254	2424.254	2424.254	2424.254
0.5	2422.291	2424.254	2422.291	2426.218	2428.182
1.0	2421.309	2423.273	2421.309	2425.236	2428.182
1.5	2421.309	2423.273	2420.327	2425.236	2427.200
2.0	2420.327	2422.291	2420.327	2424.254	2426.218
2.5	2420.327	2421.309	2419.345	2423.273	2425.236
3.0	2419.345	2420.327	2417.381	2421.309	2424.254
3.5	2418.363	2419.345	2416.399	2420.327	2422.291
4.0	2418.363	2418.363	2414.436	2419.345	2421.309
4.5	2416.399	2416.399	2413.454	2418.363	2420.327
5.0	2415.417	2415.417	2411.490	2416.399	2418.363
5.5	2414.436	2413.454	2410.508	2415.417	2417.381
6.0	2412.472	2411.490	2408.544	2414.436	2416.399
6.5	2410.508	2408.544	2406.581	2412.472	2415.417
7.0	2408.544	2406.581	2405.599	2411.490	2414.436
7.5	2406.581	2404.617	2402.653	2409.526	2412.472
8.0	2403.635	2401.671	2400.689	2408.544	2411.490
8.5	2401.671	2398.726	2398.726	2406.581	2410.508
9.0	2398.726	2396.762	2396.762	2405.599	2409.526
9.5	2395.780	2393.816	2394.798	2403.635	2407.562
10.0	2391.852	2390.871	2391.852	2401.671	2406.581
10.5	2389.889	2386.943	2389.889	2400.689	2405.599
11.0	2385.961	2383.997	2386.943	2398.726	2403.635
11.5	2382.034	2380.070	2383.997	2396.762	2401.671
12.0	2378.106	2376.142	2381.052	2394.798	2400.689
12.5	2374.179	2372.215	2378.106	2392.834	2397.744
13.0	2369.269	2368.287	2375.161	2390.871	2396.762
13.5	2365.342	2364.360	2372.215	2387.925	2394.798
14.0	2360.432	2359.451	2368.287	2384.979	2392.834
14.5	2354.541	2355.523	2364.360	2382.034	2390.871
15.0	2350.614	2350.614	2360.432	2380.070	2387.925
15.5	2344.722	2344.722	2356.505	2376.142	2385.961
16.0	2339.813	2339.813	2352.577	2373.197	2382.034
16.5	2334.904	2334.904	2348.650	2369.269	2379.088
17.0	2329.012	2329.012	2343.740	2365.342	2376.142
17.5	2323.121	2324.103	2338.831	2361.414	2372.215
18.0	2317.230	2318.212	2334.904	2357.487	2368.287
18.5	2311.339	2313.302	2329.994	2352.577	2363.378
19.0	2304.465	2307.411	2325.085	2348.650	2358.469
19.5	2298.574	2300.538	2320.175	2343.740	2353.559
20.0	2291.701	2294.647	2315.266	2338.831	2348.650
20.5	2284.828	2288.755	2309.375	2333.922	2343.740
21.0	2277.955	2281.882	2303.484	2329.012	2337.849
21.5	2270.100	2275.009	2297.592	2323.121	2332.940
22.0	2263.227	2268.136	2291.701	2318.212	2328.030
22.5	2255.372	2261.263	2285.810	2312.320	2323.121
23.0	2248.498	2254.390	2279.918	2307.411	2318.212
23.5	2239.662	2246.535	2273.045	2301.520	2312.320
24.0	2230.825	2238.680	2266.172	2295.628	2307.411
24.5	2222.970	2230.825	2259.299	2290.719	2302.502
25.0	2214.133	2222.970	2253.408	2284.828	2296.610
25.5	2205.296	2214.133	2245.553	2278.937	2291.701
26.0	2196.459	2205.296	2238.680	2273.045	2286.792
26.5	2186.640	2196.459	2231.806	2267.154	2280.900

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**CANDELA TABULATION - (Cont.)**

27.0	2176.821	2187.622	2223.951	2261.263	2275.009
27.5	2167.003	2177.803	2217.078	2254.390	2269.118
28.0	2156.202	2168.966	2209.223	2247.517	2263.227
28.5	2146.383	2159.148	2201.368	2240.643	2256.353
29.0	2135.583	2149.329	2192.531	2232.788	2249.480
29.5	2124.782	2139.510	2184.676	2224.933	2241.625
30.0	2113.981	2129.691	2175.839	2217.078	2233.770
30.5	2102.199	2118.891	2167.003	2209.223	2225.915
31.0	2091.398	2109.072	2157.184	2200.386	2217.078
31.5	2080.597	2098.271	2148.347	2191.550	2208.241
32.0	2068.815	2088.452	2138.528	2182.713	2199.405
32.5	2057.032	2077.652	2128.709	2172.894	2190.568
33.0	2046.232	2065.869	2118.891	2164.057	2180.749
33.5	2033.467	2055.069	2109.072	2154.238	2171.912
34.0	2021.685	2043.286	2098.271	2144.419	2162.093
34.5	2008.920	2032.485	2087.471	2134.601	2152.274
35.0	1996.156	2020.703	2077.652	2124.782	2142.456
35.5	1984.373	2008.920	2066.851	2114.963	2132.637
36.0	1970.627	1997.138	2056.050	2104.162	2122.818
36.5	1956.881	1985.355	2044.268	2094.344	2112.017
37.0	1943.135	1972.591	2033.467	2083.543	2101.217
37.5	1930.370	1960.808	2021.685	2072.742	2090.416
38.0	1916.624	1947.062	2010.884	2060.960	2079.616
38.5	1902.878	1934.298	1999.102	2050.159	2068.815
39.0	1889.131	1921.533	1986.337	2038.377	2057.032
39.5	1875.385	1908.769	1974.555	2026.594	2045.250
40.0	1860.657	1896.005	1962.772	2014.812	2033.467
40.5	1846.911	1881.276	1950.008	2002.047	2021.685
41.0	1832.183	1867.530	1937.243	1989.283	2008.920
41.5	1817.454	1853.784	1923.497	1977.500	1996.156
42.0	1802.726	1840.038	1910.733	1963.754	1983.392
42.5	1787.998	1825.309	1896.986	1950.990	1969.645
43.0	1772.288	1810.581	1883.240	1938.225	1956.881
43.5	1756.578	1795.853	1869.494	1924.479	1943.135
44.0	1740.868	1781.125	1855.748	1910.733	1929.388
44.5	1725.158	1766.397	1841.019	1896.005	1915.642
45.0	1708.466	1750.687	1827.273	1882.258	1901.896
45.5	1692.756	1735.959	1813.527	1867.530	1887.168
46.0	1676.064	1720.249	1798.799	1852.802	1871.458
46.5	1659.372	1704.539	1784.071	1838.074	1856.729
47.0	1641.698	1688.828	1768.361	1822.364	1841.019
47.5	1625.006	1673.118	1753.632	1807.636	1826.291
48.0	1608.315	1657.408	1737.922	1791.926	1809.599
48.5	1590.641	1642.680	1723.194	1777.197	1793.889
49.0	1573.949	1625.988	1707.484	1761.487	1777.197
49.5	1557.257	1610.278	1691.774	1744.795	1760.506
50.0	1540.565	1594.568	1676.064	1728.104	1744.795
50.5	1522.891	1578.858	1660.354	1711.412	1728.104
51.0	1506.199	1562.166	1643.662	1694.720	1710.430
51.5	1488.526	1545.474	1627.952	1678.028	1692.756
52.0	1470.852	1528.783	1611.260	1660.354	1675.082
52.5	1453.178	1512.091	1594.568	1642.680	1657.408
53.0	1435.504	1495.399	1577.876	1625.006	1638.753
53.5	1417.830	1478.707	1561.184	1607.333	1619.115
54.0	1400.157	1462.015	1543.511	1588.677	1599.478
54.5	1381.501	1445.323	1526.819	1570.021	1579.840

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**CANDELA TABULATION - (Cont.)**

55.0	1362.845	1428.631	1509.145	1550.384	1560.203
55.5	1345.172	1410.957	1490.489	1530.746	1539.583
56.0	1326.516	1393.284	1472.816	1510.127	1518.964
56.5	1307.860	1375.610	1454.160	1490.489	1497.362
57.0	1289.205	1357.936	1435.504	1468.888	1474.779
57.5	1269.567	1340.262	1416.849	1448.269	1451.214
58.0	1250.911	1321.606	1398.193	1426.667	1428.631
58.5	1232.256	1303.933	1378.555	1405.066	1404.084
59.0	1213.600	1286.259	1358.918	1382.483	1380.519
59.5	1194.944	1268.585	1340.262	1358.918	1355.972
60.0	1175.307	1250.911	1320.625	1336.335	1329.461
60.5	1156.651	1233.238	1300.987	1312.770	1303.933
61.0	1137.014	1214.582	1282.331	1289.205	1276.440
61.5	1118.358	1196.908	1262.694	1264.658	1248.948
62.0	1098.720	1178.252	1242.074	1240.111	1219.491
62.5	1079.083	1160.579	1220.473	1213.600	1190.035
63.0	1059.445	1141.923	1199.854	1187.089	1159.597
63.5	1039.808	1122.285	1178.252	1159.597	1127.195
64.0	1020.170	1103.630	1156.651	1130.140	1093.811
64.5	999.551	1084.974	1133.086	1100.684	1059.445
65.0	979.030	1065.337	1110.503	1068.282	1022.134
65.5	958.312	1045.699	1086.938	1033.917	982.859
66.0	936.907	1025.080	1061.409	998.569	941.522
66.5	915.306	1004.460	1035.880	962.730	899.694
67.0	893.901	982.859	1010.351	923.750	855.902
67.5	871.907	962.141	982.859	884.573	811.816
68.0	849.618	940.835	953.992	843.727	770.086
68.5	827.330	919.037	924.732	802.783	728.160
69.0	804.550	896.945	894.490	762.035	683.190
69.5	783.341	874.951	863.561	721.385	637.631
70.0	763.704	852.760	831.846	677.790	593.741
70.5	744.754	829.981	801.015	634.194	550.931
71.0	721.876	807.692	768.319	591.090	510.085
71.5	698.507	788.251	734.935	548.575	471.497
72.0	675.433	765.275	700.667	507.729	433.990
72.5	652.359	744.950	661.883	468.159	398.053
73.0	629.089	722.465	623.394	431.339	365.651
73.5	606.702	698.802	583.039	397.267	335.998
74.0	584.119	674.942	543.371	364.767	308.800
74.5	561.634	650.297	503.212	334.624	283.664
75.0	538.461	625.456	463.348	306.738	260.197
75.5	516.173	599.927	424.956	280.915	239.283
76.0	494.670	573.809	387.743	257.448	219.646
76.5	472.086	547.986	352.788	236.141	202.070
77.0	450.289	521.180	320.583	216.602	186.066
77.5	427.706	494.277	290.930	199.125	171.436
78.0	406.104	466.588	263.536	183.513	158.770
78.5	384.405	437.328	238.792	168.883	146.987
79.0	362.705	408.068	216.995	155.529	135.794
79.5	341.300	378.317	196.965	143.452	125.975
80.0	320.288	347.977	178.898	132.357	117.236
80.5	299.178	316.950	162.599	122.440	109.283
81.0	277.675	286.512	147.576	113.210	102.017
81.5	256.564	256.074	133.830	104.864	94.948
82.0	236.043	226.912	121.458	97.009	87.780
82.5	215.718	200.205	110.265	89.351	81.005

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**CANDELA TABULATION - (Cont.)**

83.0	195.001	175.461	99.955	81.496	74.426
83.5	175.069	153.958	90.627	74.328	68.437
84.0	155.824	134.812	81.496	67.553	62.840
84.5	138.445	117.825	72.561	61.073	57.636
85.0	122.342	102.606	63.920	55.280	53.120
85.5	107.614	88.663	55.869	50.174	49.585
86.0	92.493	75.801	48.407	45.952	46.345
86.5	77.666	63.822	41.632	41.632	42.123
87.0	62.938	52.138	35.839	36.428	35.937
87.5	49.192	41.141	30.242	29.554	29.064
88.0	36.526	31.027	23.663	23.761	24.547
88.5	25.234	21.699	16.986	18.852	19.147
89.0	15.710	13.550	11.390	11.586	11.488
89.5	7.462	6.971	5.400	5.400	5.008
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 : BAR-24-L75-835-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 : BAR-24-L75-835-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 : BAR-24-L75-835-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	898.30	N.A.	11.80
0-30	1938.29	N.A.	25.60
0-40	3235.98	N.A.	42.70
0-60	5964.13	N.A.	78.60
0-80	7488.79	N.A.	98.70
0-90	7585.18	N.A.	100.00
10-90	7355.24	N.A.	97.00
20-40	2337.68	N.A.	30.80
20-50	3738.71	N.A.	49.30
40-70	3764.69	N.A.	49.60
60-80	1524.66	N.A.	20.10
70-80	488.12	N.A.	6.40
80-90	96.38	N.A.	1.30
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	7585.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	229.93
10-20	668.36
20-30	1039.99
30-40	1297.69
40-50	1401.03
50-60	1327.12
60-70	1036.54
70-80	488.12
80-90	96.38
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 : BAR-24-L75-835-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	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37
7	64	50	41	35	62	50	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BAR-24-L75-835-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

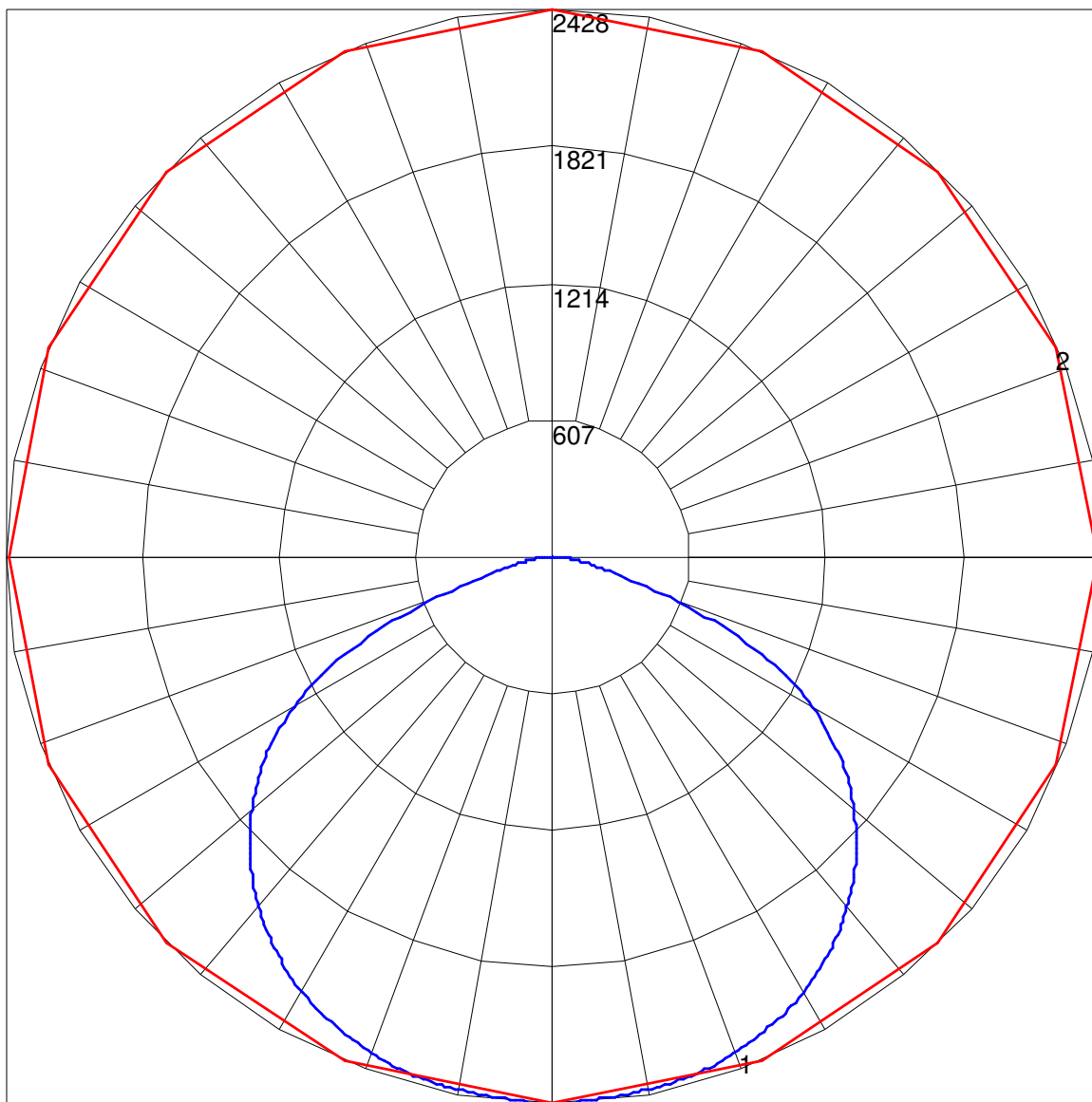
Reflectances

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	16.7	18.4	17.1	18.7	19.0	17.3	19.0	17.7	19.3	19.6
	3H	18.7	20.2	19.1	20.5	20.9	18.7	20.2	19.1	20.5	20.9
	4H	19.4	20.8	19.8	21.2	21.6	18.8	20.3	19.2	20.6	21.0
	6H	19.9	21.3	20.4	21.6	22.0	18.9	20.2	19.3	20.6	21.0
	8H	20.1	21.3	20.5	21.7	22.1	18.9	20.2	19.3	20.6	21.0
	12H	20.2	21.4	20.6	21.7	22.2	18.9	20.1	19.3	20.5	20.9
4H	2H	17.5	18.9	17.9	19.3	19.7	18.0	19.4	18.4	19.7	20.1
	3H	19.7	20.9	20.1	21.3	21.7	19.5	20.7	19.9	21.1	21.5
	4H	20.6	21.7	21.0	22.1	22.5	19.8	20.8	20.2	21.2	21.7
	6H	21.3	22.2	21.7	22.6	23.1	19.9	20.8	20.3	21.2	21.7
	8H	21.4	22.3	21.9	22.7	23.2	19.9	20.7	20.3	21.2	21.7
	12H	21.5	22.3	22.0	22.8	23.3	19.9	20.7	20.4	21.1	21.6
8H	4H	20.8	21.7	21.3	22.1	22.6	20.0	20.9	20.5	21.3	21.8
	6H	21.5	22.3	22.0	22.8	23.2	20.2	20.9	20.6	21.4	21.8
	8H	21.8	22.4	22.3	22.9	23.4	20.2	20.8	20.7	21.3	21.8
	12H	21.9	22.5	22.4	23.0	23.5	20.2	20.8	20.7	21.3	21.8
12H	4H	20.8	21.6	21.3	22.1	22.5	20.1	20.8	20.5	21.3	21.8
	6H	21.6	22.2	22.1	22.7	23.2	20.2	20.9	20.7	21.3	21.9
	8H	21.8	22.4	22.3	22.9	23.4	20.3	20.8	20.8	21.3	21.9

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 2428.182 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.)