



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-24-L75-840-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GENERATED FROM 15729805.03  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 2025-04-25  
 [TESTDATE] 3/18/2025  
 [MANUFAC] WILLIAMS INDOOR  
 [MORE] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] BAR-24-L75-840-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	7813
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
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	3564	3812	3968
55	3505	3881	4012
65	3417	3876	3568
75	3069	2641	1483
85	2071	1082	899

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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	2496.981	2496.981	2496.981	2496.981	2496.981
0.5	2494.958	2496.981	2494.958	2499.004	2501.026
1.0	2493.947	2495.970	2493.947	2497.992	2501.026
1.5	2493.947	2495.970	2492.936	2497.992	2500.015
2.0	2492.936	2494.958	2492.936	2496.981	2499.004
2.5	2492.936	2493.947	2491.924	2495.970	2497.992
3.0	2491.924	2492.936	2489.902	2493.947	2496.981
3.5	2490.913	2491.924	2488.890	2492.936	2494.958
4.0	2490.913	2490.913	2486.868	2491.924	2493.947
4.5	2488.890	2488.890	2485.856	2490.913	2492.936
5.0	2487.879	2487.879	2483.834	2488.890	2490.913
5.5	2486.868	2485.856	2482.822	2487.879	2489.902
6.0	2484.845	2483.834	2480.800	2486.868	2488.890
6.5	2482.822	2480.800	2478.777	2484.845	2487.879
7.0	2480.800	2478.777	2477.766	2483.834	2486.868
7.5	2478.777	2476.754	2474.732	2481.811	2484.845
8.0	2475.743	2473.720	2472.709	2480.800	2483.834
8.5	2473.720	2470.686	2470.686	2478.777	2482.822
9.0	2470.686	2468.664	2468.664	2477.766	2481.811
9.5	2467.652	2465.630	2466.641	2475.743	2479.788
10.0	2463.607	2462.596	2463.607	2473.720	2478.777
10.5	2461.584	2458.550	2461.584	2472.709	2477.766
11.0	2457.539	2455.516	2458.550	2470.686	2475.743
11.5	2453.494	2451.471	2455.516	2468.664	2473.720
12.0	2449.448	2447.426	2452.482	2466.641	2472.709
12.5	2445.403	2443.381	2449.448	2464.618	2469.675
13.0	2440.347	2439.335	2446.414	2462.596	2468.664
13.5	2436.301	2435.290	2443.381	2459.562	2466.641
14.0	2431.245	2430.233	2439.335	2456.528	2464.618
14.5	2425.177	2426.188	2435.290	2453.494	2462.596
15.0	2421.131	2421.131	2431.245	2451.471	2459.562
15.5	2415.063	2415.063	2427.199	2447.426	2457.539
16.0	2410.007	2410.007	2423.154	2444.392	2453.494
16.5	2404.950	2404.950	2419.109	2440.347	2450.460
17.0	2398.882	2398.882	2414.052	2436.301	2447.426
17.5	2392.814	2393.825	2408.995	2432.256	2443.381
18.0	2386.746	2387.757	2404.950	2428.211	2439.335
18.5	2380.678	2382.701	2399.893	2423.154	2434.279
19.0	2373.599	2376.633	2394.837	2419.109	2429.222
19.5	2367.531	2369.553	2389.780	2414.052	2424.165
20.0	2360.451	2363.485	2384.723	2408.995	2419.109
20.5	2353.372	2357.417	2378.655	2403.939	2414.052
21.0	2346.293	2350.338	2372.587	2398.882	2407.984
21.5	2338.202	2343.259	2366.519	2392.814	2402.927
22.0	2331.123	2336.179	2360.451	2387.757	2397.871
22.5	2323.032	2329.100	2354.383	2381.689	2392.814
23.0	2315.953	2322.021	2348.315	2376.633	2387.757
23.5	2306.851	2313.930	2341.236	2370.565	2381.689
24.0	2297.749	2305.839	2334.157	2364.497	2376.633
24.5	2289.658	2297.749	2327.077	2359.440	2371.576
25.0	2280.556	2289.658	2321.009	2353.372	2365.508
25.5	2271.454	2280.556	2312.919	2347.304	2360.451
26.0	2262.352	2271.454	2305.839	2341.236	2355.395
26.5	2252.239	2262.352	2298.760	2335.168	2349.327

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**CANDELA TABULATION - (Cont.)**

27.0	2242.125	2253.250	2290.669	2329.100	2343.259
27.5	2232.012	2243.137	2283.590	2322.021	2337.191
28.0	2220.887	2234.035	2275.499	2314.941	2331.123
28.5	2210.774	2223.921	2267.409	2307.862	2324.043
29.0	2199.649	2213.808	2258.307	2299.771	2316.964
29.5	2188.525	2203.695	2250.216	2291.681	2308.873
30.0	2177.400	2193.581	2241.114	2283.590	2300.783
30.5	2165.264	2182.457	2232.012	2275.499	2292.692
31.0	2154.139	2172.343	2221.899	2266.397	2283.590
31.5	2143.015	2161.219	2212.797	2257.295	2274.488
32.0	2130.879	2151.105	2202.683	2248.193	2265.386
32.5	2118.743	2139.981	2192.570	2238.080	2256.284
33.0	2107.618	2127.845	2182.457	2228.978	2246.171
33.5	2094.471	2116.720	2172.343	2218.865	2237.069
34.0	2082.335	2104.584	2161.219	2208.751	2226.955
34.5	2069.187	2093.459	2150.094	2198.638	2216.842
35.0	2056.040	2081.323	2139.981	2188.525	2206.729
35.5	2043.904	2069.187	2128.856	2178.411	2196.615
36.0	2029.745	2057.051	2117.731	2167.287	2186.502
36.5	2015.587	2044.915	2105.595	2157.173	2175.377
37.0	2001.428	2031.768	2094.471	2146.049	2164.253
37.5	1988.281	2019.632	2082.335	2134.924	2153.128
38.0	1974.122	2005.473	2071.210	2122.788	2142.003
38.5	1959.963	1992.326	2059.074	2111.663	2130.879
39.0	1945.805	1979.179	2045.927	2099.527	2118.743
39.5	1931.646	1966.031	2033.791	2087.391	2106.607
40.0	1916.476	1952.884	2021.655	2075.255	2094.471
40.5	1902.317	1937.714	2008.507	2062.108	2082.335
41.0	1887.147	1923.555	1995.360	2048.961	2069.187
41.5	1871.977	1909.397	1981.201	2036.825	2056.040
42.0	1856.807	1895.238	1968.054	2022.666	2042.893
42.5	1841.637	1880.068	1953.895	2009.519	2028.734
43.0	1825.456	1864.898	1939.737	1996.371	2015.587
43.5	1809.275	1849.728	1925.578	1982.213	2001.428
44.0	1793.093	1834.558	1911.419	1968.054	1987.269
44.5	1776.912	1819.388	1896.249	1952.884	1973.111
45.0	1759.719	1803.207	1882.091	1938.725	1958.952
45.5	1743.538	1788.037	1867.932	1923.555	1943.782
46.0	1726.345	1771.855	1852.762	1908.385	1927.601
46.5	1709.153	1755.674	1837.592	1893.215	1912.431
47.0	1690.949	1739.493	1821.411	1877.034	1896.249
47.5	1673.756	1723.311	1806.241	1861.864	1881.079
48.0	1656.563	1707.130	1790.059	1845.683	1863.887
48.5	1638.359	1691.960	1774.889	1830.513	1847.705
49.0	1621.167	1674.767	1758.708	1814.331	1830.513
49.5	1603.974	1658.586	1742.527	1797.139	1813.320
50.0	1586.781	1642.405	1726.345	1779.946	1797.139
50.5	1568.577	1626.223	1710.164	1762.753	1779.946
51.0	1551.385	1609.031	1692.971	1745.561	1761.742
51.5	1533.181	1591.838	1676.790	1728.368	1743.538
52.0	1514.977	1574.645	1659.597	1710.164	1725.334
52.5	1496.773	1557.453	1642.405	1691.960	1707.130
53.0	1478.569	1540.260	1625.212	1673.756	1687.915
53.5	1460.365	1523.067	1608.019	1655.552	1667.688
54.0	1442.161	1505.875	1589.815	1636.337	1647.461
54.5	1422.946	1488.682	1572.623	1617.121	1627.235

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**CANDELA TABULATION - (Cont.)**

55.0	1403.730	1471.489	1554.419	1596.895	1607.008
55.5	1385.526	1453.286	1535.203	1576.668	1585.770
56.0	1366.311	1435.082	1516.999	1555.430	1564.532
56.5	1347.096	1416.878	1497.784	1535.203	1542.283
57.0	1327.880	1398.674	1478.569	1512.954	1519.022
57.5	1307.654	1380.470	1459.354	1491.716	1494.750
58.0	1288.438	1361.254	1440.138	1469.467	1471.489
58.5	1269.223	1343.050	1419.912	1447.218	1446.206
59.0	1250.008	1324.846	1399.685	1423.957	1421.934
59.5	1230.792	1306.642	1380.470	1399.685	1396.651
60.0	1210.566	1288.438	1360.243	1376.424	1369.345
60.5	1191.350	1270.234	1340.016	1352.152	1343.050
61.0	1171.124	1251.019	1320.801	1327.880	1314.733
61.5	1151.908	1232.815	1300.574	1302.597	1286.416
62.0	1131.682	1213.600	1279.336	1277.314	1256.076
62.5	1111.455	1195.396	1257.087	1250.008	1225.736
63.0	1091.228	1176.180	1235.849	1222.702	1194.384
63.5	1071.002	1155.954	1213.600	1194.384	1161.010
64.0	1050.775	1136.738	1191.350	1164.044	1126.625
64.5	1029.537	1117.523	1167.078	1133.704	1091.228
65.0	1008.400	1097.296	1143.818	1100.330	1052.798
65.5	987.061	1077.070	1119.546	1064.934	1012.344
66.0	965.014	1055.832	1093.251	1028.526	969.767
66.5	942.765	1034.594	1066.956	991.612	926.684
67.0	920.718	1012.344	1040.662	951.462	881.579
67.5	898.064	991.005	1012.344	911.110	836.170
68.0	875.106	969.059	982.611	869.038	793.188
68.5	852.149	946.608	952.473	826.866	750.005
69.0	828.686	923.853	921.324	784.896	703.685
69.5	806.841	901.199	889.467	743.026	656.760
70.0	786.615	878.343	856.801	698.123	611.553
70.5	767.096	854.880	825.045	653.220	567.459
71.0	743.532	831.923	791.368	608.822	525.387
71.5	719.462	811.898	756.983	565.032	485.642
72.0	695.696	788.233	721.687	522.960	447.009
72.5	671.930	767.298	681.740	482.204	409.994
73.0	647.961	744.139	642.095	444.279	376.620
73.5	624.903	719.766	600.530	409.185	346.078
74.0	601.642	695.190	559.672	375.710	318.064
74.5	578.482	669.806	518.308	344.662	292.174
75.0	554.615	644.219	477.248	315.940	268.003
75.5	531.658	617.924	437.705	289.342	246.462
76.0	509.510	591.023	399.375	265.172	226.235
76.5	486.249	564.425	363.372	243.226	208.132
77.0	463.797	536.816	330.200	223.100	191.648
77.5	440.537	509.105	299.658	205.098	176.579
78.0	418.287	480.585	271.442	189.018	163.533
78.5	395.937	450.448	245.956	173.949	151.397
79.0	373.586	420.310	223.505	160.195	139.867
79.5	351.539	389.667	202.873	147.756	129.754
80.0	329.897	358.416	184.265	136.328	120.753
80.5	308.153	326.458	167.477	126.113	112.561
81.0	286.005	295.107	152.003	116.607	105.077
81.5	264.261	263.756	137.845	108.010	97.796
82.0	243.124	233.719	125.102	99.920	90.413
82.5	222.190	206.211	113.573	92.031	83.435

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**CANDELA TABULATION - (Cont.)**

83.0	200.851	180.725	102.954	83.941	76.659
83.5	180.321	158.577	93.346	76.558	70.490
84.0	160.499	138.856	83.941	69.580	64.725
84.5	142.598	121.360	74.738	62.905	59.365
85.0	126.012	105.684	65.838	56.938	54.713
85.5	110.842	91.323	57.545	51.679	51.072
86.0	95.268	78.075	49.859	47.330	47.735
86.5	79.996	65.737	42.881	42.881	43.386
87.0	64.826	53.702	36.914	37.520	37.015
87.5	50.668	42.375	31.149	30.441	29.935
88.0	37.622	31.958	24.373	24.474	25.283
88.5	25.991	22.350	17.496	19.418	19.721
89.0	16.181	13.956	11.731	11.934	11.833
89.5	7.686	7.180	5.562	5.562	5.158
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-L75-840-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-L75-840-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-L75-840-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	925.25	N.A.	11.80
0-30	1996.44	N.A.	25.60
0-40	3333.06	N.A.	42.70
0-60	6143.05	N.A.	78.60
0-80	7713.45	N.A.	98.70
0-90	7812.73	N.A.	100.00
10-90	7575.9	N.A.	97.00
20-40	2407.81	N.A.	30.80
20-50	3850.87	N.A.	49.30
40-70	3877.63	N.A.	49.60
60-80	1570.4	N.A.	20.10
70-80	502.77	N.A.	6.40
80-90	99.27	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	7812.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	236.83
10-20	688.42
20-30	1071.19
30-40	1336.62
40-50	1443.06
50-60	1366.93
60-70	1067.63
70-80	502.77
80-90	99.27
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-L75-840-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	88	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-L75-840-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

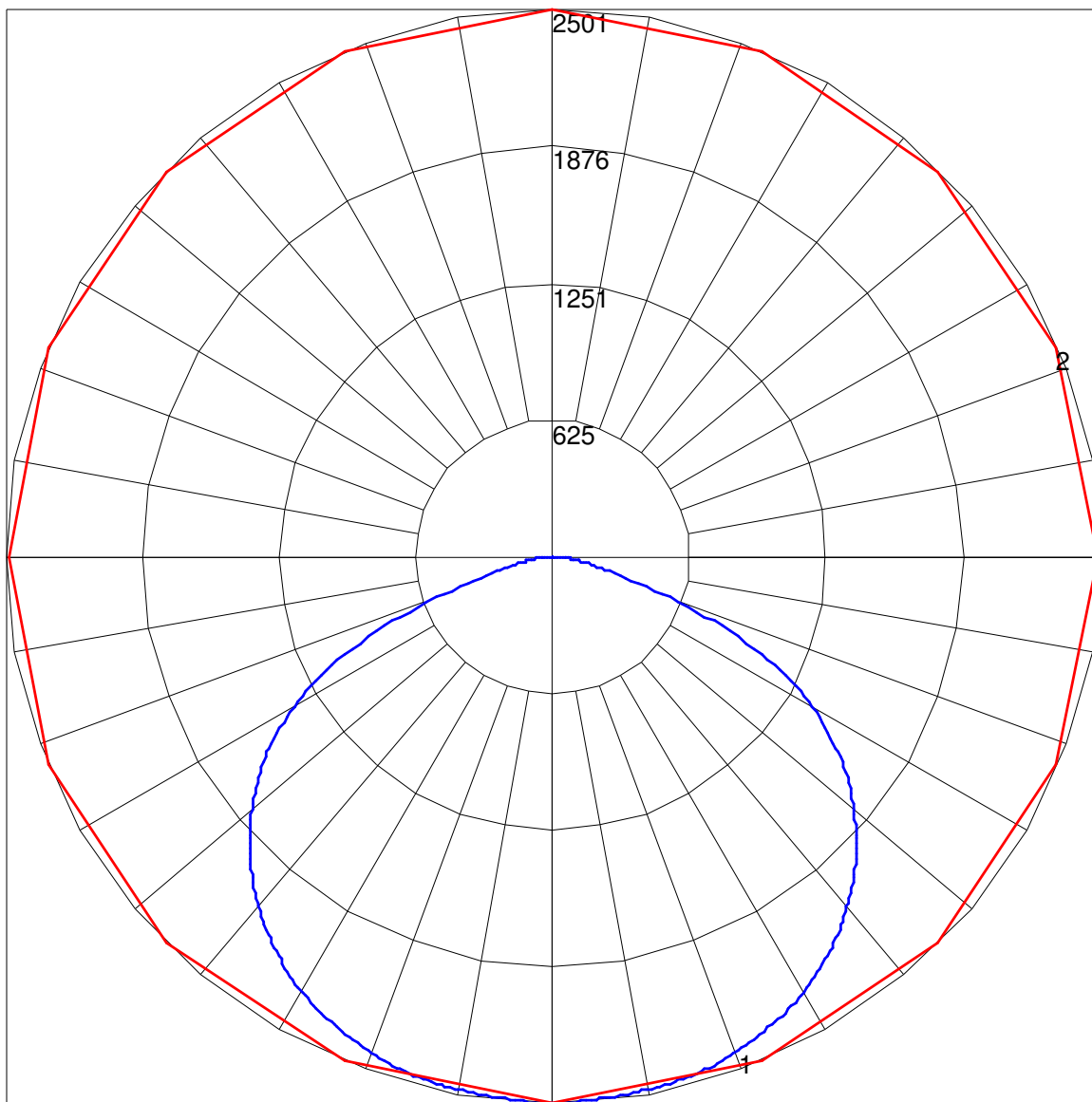
Reflectances

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	16.8	18.5	17.2	18.8	19.1	17.4	19.1	17.8	19.4	19.7
	3H	18.8	20.3	19.2	20.6	21.0	18.8	20.3	19.2	20.6	21.0
	4H	19.5	20.9	19.9	21.3	21.7	18.9	20.4	19.3	20.7	21.1
	6H	20.0	21.4	20.5	21.7	22.1	19.0	20.3	19.4	20.7	21.1
	8H	20.2	21.4	20.6	21.8	22.2	19.0	20.3	19.4	20.7	21.1
	12H	20.2	21.5	20.7	21.8	22.3	19.0	20.2	19.4	20.6	21.0
4H	2H	17.6	19.0	18.0	19.4	19.8	18.1	19.5	18.5	19.8	20.2
	3H	19.8	21.0	20.2	21.4	21.8	19.6	20.8	20.0	21.2	21.6
	4H	20.7	21.8	21.1	22.2	22.6	19.9	20.9	20.3	21.3	21.8
	6H	21.4	22.3	21.8	22.7	23.2	20.0	20.9	20.4	21.3	21.8
	8H	21.5	22.4	22.0	22.8	23.3	20.0	20.8	20.4	21.3	21.8
	12H	21.6	22.4	22.1	22.9	23.4	20.0	20.8	20.5	21.2	21.7
8H	4H	20.9	21.8	21.4	22.2	22.7	20.1	21.0	20.6	21.4	21.9
	6H	21.6	22.4	22.1	22.9	23.3	20.3	21.0	20.7	21.5	21.9
	8H	21.9	22.5	22.4	23.0	23.5	20.3	20.9	20.8	21.4	21.9
	12H	22.0	22.6	22.5	23.1	23.6	20.3	20.9	20.8	21.4	21.9
12H	4H	20.9	21.7	21.4	22.2	22.6	20.2	20.9	20.6	21.4	21.9
	6H	21.7	22.3	22.2	22.8	23.3	20.3	21.0	20.8	21.4	22.0
	8H	21.9	22.5	22.4	23.0	23.5	20.4	20.9	20.9	21.4	22.0

Maximum UGR = 23.6

POLAR GRAPH



Maximum Candela = 2501.026 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.)