



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-24-L60-850-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-L60-850-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	6217
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	45.6
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	2836	3033	3157
55	2789	3088	3193
65	2719	3084	2839
75	2442	2101	1180
85	1648	861	715

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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	1986.994	1986.994	1986.994	1986.994	1986.994
0.5	1985.384	1986.994	1985.384	1988.603	1990.213
1.0	1984.579	1986.189	1984.579	1987.799	1990.213
1.5	1984.579	1986.189	1983.775	1987.799	1989.408
2.0	1983.775	1985.384	1983.775	1986.994	1988.603
2.5	1983.775	1984.579	1982.970	1986.189	1987.799
3.0	1982.970	1983.775	1981.360	1984.579	1986.994
3.5	1982.165	1982.970	1980.556	1983.775	1985.384
4.0	1982.165	1982.165	1978.946	1982.970	1984.579
4.5	1980.556	1980.556	1978.141	1982.165	1983.775
5.0	1979.751	1979.751	1976.532	1980.556	1982.165
5.5	1978.946	1978.141	1975.727	1979.751	1981.360
6.0	1977.336	1976.532	1974.117	1978.946	1980.556
6.5	1975.727	1974.117	1972.508	1977.336	1979.751
7.0	1974.117	1972.508	1971.703	1976.532	1978.946
7.5	1972.508	1970.898	1969.289	1974.922	1977.336
8.0	1970.093	1968.484	1967.679	1974.117	1976.532
8.5	1968.484	1966.070	1966.070	1972.508	1975.727
9.0	1966.070	1964.460	1964.460	1971.703	1974.922
9.5	1963.655	1962.046	1962.850	1970.093	1973.313
10.0	1960.436	1959.631	1960.436	1968.484	1972.508
10.5	1958.827	1956.412	1958.827	1967.679	1971.703
11.0	1955.607	1953.998	1956.412	1966.070	1970.093
11.5	1952.388	1950.779	1953.998	1964.460	1968.484
12.0	1949.169	1947.560	1951.584	1962.850	1967.679
12.5	1945.950	1944.341	1949.169	1961.241	1965.265
13.0	1941.926	1941.121	1946.755	1959.631	1964.460
13.5	1938.707	1937.902	1944.341	1957.217	1962.850
14.0	1934.683	1933.878	1941.121	1954.803	1961.241
14.5	1929.855	1930.659	1937.902	1952.388	1959.631
15.0	1926.635	1926.635	1934.683	1950.779	1957.217
15.5	1921.807	1921.807	1931.464	1947.560	1955.607
16.0	1917.783	1917.783	1928.245	1945.145	1952.388
16.5	1913.759	1913.759	1925.026	1941.926	1949.974
17.0	1908.930	1908.930	1921.002	1938.707	1947.560
17.5	1904.102	1904.907	1916.978	1935.488	1944.341
18.0	1899.273	1900.078	1913.759	1932.269	1941.121
18.5	1894.444	1896.054	1909.735	1928.245	1937.098
19.0	1888.811	1891.225	1905.711	1925.026	1933.074
19.5	1883.982	1885.592	1901.687	1921.002	1929.050
20.0	1878.349	1880.763	1897.664	1916.978	1925.026
20.5	1872.715	1875.935	1892.835	1912.954	1921.002
21.0	1867.082	1870.301	1888.006	1908.930	1916.173
21.5	1860.644	1864.668	1883.178	1904.102	1912.150
22.0	1855.010	1859.034	1878.349	1900.078	1908.126
22.5	1848.572	1853.401	1873.520	1895.249	1904.102
23.0	1842.939	1847.767	1868.692	1891.225	1900.078
23.5	1835.696	1841.329	1863.058	1886.397	1895.249
24.0	1828.453	1834.891	1857.425	1881.568	1891.225
24.5	1822.015	1828.453	1851.791	1877.544	1887.201
25.0	1814.772	1822.015	1846.963	1872.715	1882.373
25.5	1807.529	1814.772	1840.524	1867.887	1878.349
26.0	1800.286	1807.529	1834.891	1863.058	1874.325
26.5	1792.238	1800.286	1829.258	1858.229	1869.496

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**CANDELA TABULATION - (Cont.)**

27.0	1784.190	1793.043	1822.819	1853.401	1864.668
27.5	1776.142	1784.995	1817.186	1847.767	1859.839
28.0	1767.290	1777.752	1810.748	1842.134	1855.010
28.5	1759.242	1769.704	1804.309	1836.500	1849.377
29.0	1750.389	1761.656	1797.066	1830.062	1843.743
29.5	1741.537	1753.608	1790.628	1823.624	1837.305
30.0	1732.684	1745.561	1783.385	1817.186	1830.867
30.5	1723.027	1736.708	1776.142	1810.748	1824.429
31.0	1714.174	1728.660	1768.094	1803.505	1817.186
31.5	1705.322	1719.808	1760.851	1796.262	1809.943
32.0	1695.665	1711.760	1752.804	1789.019	1802.700
32.5	1686.007	1702.908	1744.756	1780.971	1795.457
33.0	1677.155	1693.250	1736.708	1773.728	1787.409
33.5	1666.693	1684.398	1728.660	1765.680	1780.166
34.0	1657.035	1674.740	1719.808	1757.632	1772.118
34.5	1646.573	1665.888	1710.955	1749.585	1764.071
35.0	1636.111	1656.231	1702.908	1741.537	1756.023
35.5	1626.454	1646.573	1694.055	1733.489	1747.975
36.0	1615.187	1636.916	1685.202	1724.637	1739.927
36.5	1603.920	1627.259	1675.545	1716.589	1731.075
37.0	1592.653	1616.796	1666.693	1707.736	1722.222
37.5	1582.191	1607.139	1657.035	1698.884	1713.370
38.0	1570.924	1595.872	1648.183	1689.226	1704.517
38.5	1559.657	1585.410	1638.525	1680.374	1695.665
39.0	1548.390	1574.948	1628.063	1670.716	1686.007
39.5	1537.124	1564.486	1618.406	1661.059	1676.350
40.0	1525.052	1554.024	1608.749	1651.402	1666.693
40.5	1513.785	1541.952	1598.287	1640.940	1657.035
41.0	1501.713	1530.685	1587.824	1630.478	1646.573
41.5	1489.642	1519.418	1576.558	1620.820	1636.111
42.0	1477.570	1508.152	1566.096	1609.553	1625.649
42.5	1465.498	1496.080	1554.829	1599.091	1614.382
43.0	1452.622	1484.008	1543.562	1588.629	1603.920
43.5	1439.746	1471.937	1532.295	1577.362	1592.653
44.0	1426.869	1459.865	1521.028	1566.096	1581.386
44.5	1413.993	1447.793	1508.956	1554.024	1570.119
45.0	1400.312	1434.917	1497.689	1542.757	1558.853
45.5	1387.435	1422.845	1486.423	1530.685	1546.781
46.0	1373.754	1409.969	1474.351	1518.614	1533.904
46.5	1360.073	1397.092	1462.279	1506.542	1521.833
47.0	1345.587	1384.216	1449.403	1493.666	1508.956
47.5	1331.905	1371.340	1437.331	1481.594	1496.885
48.0	1318.224	1358.463	1424.455	1468.718	1483.204
48.5	1303.738	1346.391	1412.383	1456.646	1470.327
49.0	1290.057	1332.710	1399.507	1443.769	1456.646
49.5	1276.376	1319.834	1386.630	1430.088	1442.965
50.0	1262.695	1306.957	1373.754	1416.407	1430.088
50.5	1248.209	1294.081	1360.877	1402.726	1416.407
51.0	1234.528	1280.400	1347.196	1389.045	1401.921
51.5	1220.042	1266.719	1334.320	1375.363	1387.435
52.0	1205.556	1253.037	1320.639	1360.877	1372.949
52.5	1191.070	1239.356	1306.957	1346.391	1358.463
53.0	1176.584	1225.675	1293.276	1331.905	1343.172
53.5	1162.098	1211.994	1279.595	1317.420	1327.077
54.0	1147.612	1198.313	1265.109	1302.129	1310.981
54.5	1132.321	1184.631	1251.428	1286.838	1294.886

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**CANDELA TABULATION - (Cont.)**

55.0	1117.030	1170.950	1236.942	1270.742	1278.790
55.5	1102.544	1156.464	1221.651	1254.647	1261.890
56.0	1087.253	1141.978	1207.165	1237.747	1244.990
56.5	1071.963	1127.492	1191.874	1221.651	1227.285
57.0	1056.672	1113.006	1176.584	1203.946	1208.775
57.5	1040.576	1098.520	1161.293	1187.046	1189.460
58.0	1025.286	1083.229	1146.002	1169.341	1170.950
58.5	1009.995	1068.743	1129.907	1151.635	1150.831
59.0	994.704	1054.258	1113.811	1133.126	1131.516
59.5	979.413	1039.772	1098.520	1113.811	1111.397
60.0	963.318	1025.286	1082.425	1095.301	1089.668
60.5	948.027	1010.800	1066.329	1075.986	1068.743
61.0	931.931	995.509	1051.038	1056.672	1046.210
61.5	916.641	981.023	1034.943	1036.552	1023.676
62.0	900.545	965.732	1018.043	1016.433	999.533
62.5	884.450	951.246	1000.337	994.704	975.389
63.0	868.354	935.955	983.437	972.975	950.441
63.5	852.259	919.860	965.732	950.441	923.884
64.0	836.163	904.569	948.027	926.298	896.521
64.5	819.263	889.278	928.712	902.155	868.354
65.0	802.443	873.183	910.202	875.597	837.773
65.5	785.462	857.087	890.888	847.430	805.582
66.0	767.918	840.187	869.964	818.458	771.700
66.5	750.213	823.287	849.039	789.084	737.417
67.0	732.669	805.582	828.115	757.134	701.524
67.5	714.642	788.601	805.582	725.023	665.389
68.0	696.373	771.137	781.921	691.545	631.186
68.5	678.105	753.271	757.939	657.985	596.822
69.0	659.434	735.164	733.152	624.587	559.964
69.5	642.051	717.137	707.801	591.269	522.622
70.0	625.955	698.949	681.807	555.537	486.648
70.5	610.423	680.278	656.537	519.805	451.560
71.0	591.672	662.009	629.738	484.476	418.082
71.5	572.518	646.075	602.375	449.629	386.454
72.0	553.606	627.243	574.289	416.150	355.711
72.5	534.694	610.584	542.500	383.718	326.256
73.0	515.620	592.155	510.953	353.538	299.699
73.5	497.272	572.760	477.876	325.613	275.395
74.0	478.762	553.204	445.363	298.975	253.102
74.5	460.332	533.004	412.448	274.268	232.500
75.0	441.340	512.643	379.774	251.412	213.266
75.5	423.071	491.719	348.307	230.247	196.124
76.0	405.447	470.312	317.806	211.012	180.029
76.5	386.937	449.146	289.156	193.549	165.623
77.0	369.071	427.175	262.760	177.534	152.505
77.5	350.561	405.125	238.455	163.209	140.514
78.0	332.856	382.430	216.002	150.413	130.132
78.5	315.070	358.448	195.722	138.422	120.475
79.0	297.285	334.465	177.856	127.477	111.301
79.5	279.740	310.080	161.438	117.578	103.253
80.0	262.518	285.213	146.630	108.484	96.090
80.5	245.215	259.782	133.271	100.356	89.572
81.0	227.591	234.834	120.958	92.791	83.616
81.5	210.288	209.886	109.691	85.950	77.822
82.0	193.468	185.984	99.551	79.512	71.947
82.5	176.809	164.094	90.376	73.235	66.394

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**CANDELA TABULATION - (Cont.)**

83.0	159.829	143.814	81.926	66.796	61.002
83.5	143.492	126.189	74.281	60.922	56.093
84.0	127.718	110.496	66.796	55.369	51.506
84.5	113.474	96.573	59.473	50.057	47.240
85.0	100.275	84.099	52.391	45.309	43.538
85.5	88.204	72.671	45.792	41.124	40.641
86.0	75.810	62.129	39.675	37.664	37.985
86.5	63.658	52.310	34.123	34.123	34.525
87.0	51.586	42.734	29.374	29.857	29.455
87.5	40.319	33.720	24.787	24.224	23.821
88.0	29.938	25.431	19.395	19.476	20.119
88.5	20.683	17.786	13.923	15.452	15.693
89.0	12.876	11.106	9.335	9.496	9.416
89.5	6.116	5.714	4.426	4.426	4.104
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-L60-850-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-L60-850-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-L60-850-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	736.27	N.A.	11.80
0-30	1588.68	N.A.	25.60
0-40	2652.31	N.A.	42.70
0-60	4888.39	N.A.	78.60
0-80	6138.05	N.A.	98.70
0-90	6217.05	N.A.	100.00
10-90	6028.58	N.A.	97.00
20-40	1916.04	N.A.	30.80
20-50	3064.37	N.A.	49.30
40-70	3085.65	N.A.	49.60
60-80	1249.66	N.A.	20.10
70-80	400.08	N.A.	6.40
80-90	79.00	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	6217.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	188.46
10-20	547.81
20-30	852.41
30-40	1063.63
40-50	1148.33
50-60	1087.75
60-70	849.58
70-80	400.08
80-90	79.00
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-L60-850-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	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-L60-850-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

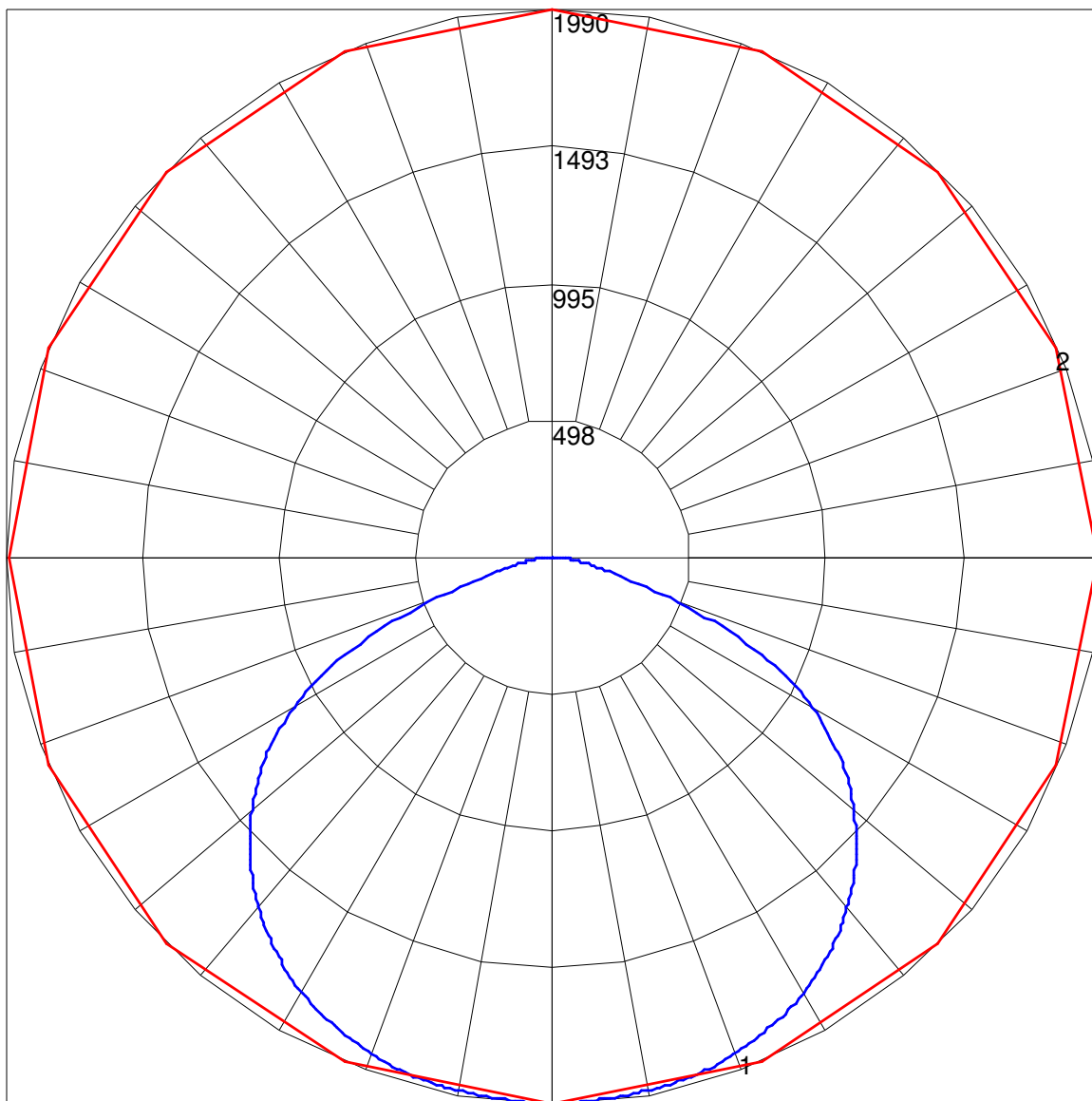
Reflectances

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	16.1	17.8	16.5	18.1	18.4	16.7	18.4	17.1	18.7	19.0
	3H	18.1	19.6	18.5	19.9	20.3	18.1	19.6	18.5	19.9	20.3
	4H	18.8	20.2	19.2	20.6	21.0	18.2	19.7	18.6	20.0	20.4
	6H	19.3	20.7	19.8	21.0	21.4	18.3	19.6	18.7	20.0	20.4
	8H	19.5	20.7	19.9	21.1	21.5	18.3	19.6	18.7	20.0	20.4
	12H	19.6	20.8	20.0	21.1	21.6	18.3	19.5	18.7	19.9	20.3
4H	2H	16.9	18.3	17.3	18.7	19.1	17.4	18.8	17.8	19.1	19.5
	3H	19.1	20.3	19.5	20.7	21.1	18.9	20.1	19.3	20.5	20.9
	4H	20.0	21.1	20.4	21.5	21.9	19.2	20.2	19.6	20.6	21.1
	6H	20.7	21.6	21.1	22.0	22.5	19.3	20.2	19.7	20.6	21.1
	8H	20.8	21.7	21.3	22.1	22.6	19.3	20.1	19.7	20.6	21.1
	12H	20.9	21.7	21.4	22.2	22.7	19.3	20.1	19.8	20.5	21.0
8H	4H	20.2	21.1	20.7	21.5	22.0	19.4	20.3	19.9	20.7	21.2
	6H	20.9	21.7	21.4	22.2	22.6	19.6	20.3	20.0	20.8	21.2
	8H	21.2	21.8	21.7	22.3	22.8	19.6	20.2	20.1	20.7	21.2
	12H	21.3	21.9	21.8	22.4	22.9	19.6	20.2	20.1	20.7	21.2
12H	4H	20.2	21.0	20.7	21.5	21.9	19.5	20.2	19.9	20.7	21.2
	6H	21.0	21.6	21.5	22.1	22.6	19.6	20.3	20.1	20.7	21.3
	8H	21.2	21.8	21.7	22.3	22.8	19.7	20.2	20.2	20.7	21.3

Maximum UGR = 22.9

POLAR GRAPH



Maximum Candela = 1990.213 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.)