



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BAR-24-L75-940-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-L75-940-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	6523
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
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	2976	3183	3313
55	2926	3241	3350
65	2853	3236	2979
75	2562	2205	1238
85	1729	903	751

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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	2084.859	2084.859	2084.859	2084.859	2084.859
0.5	2083.170	2084.859	2083.170	2086.547	2088.236
1.0	2082.325	2084.014	2082.325	2085.703	2088.236
1.5	2082.325	2084.014	2081.481	2085.703	2087.392
2.0	2081.481	2083.170	2081.481	2084.859	2086.547
2.5	2081.481	2082.325	2080.637	2084.014	2085.703
3.0	2080.637	2081.481	2078.948	2082.325	2084.859
3.5	2079.792	2080.637	2078.103	2081.481	2083.170
4.0	2079.792	2079.792	2076.414	2080.637	2082.325
4.5	2078.103	2078.103	2075.570	2079.792	2081.481
5.0	2077.259	2077.259	2073.881	2078.103	2079.792
5.5	2076.414	2075.570	2073.037	2077.259	2078.948
6.0	2074.726	2073.881	2071.348	2076.414	2078.103
6.5	2073.037	2071.348	2069.659	2074.726	2077.259
7.0	2071.348	2069.659	2068.815	2073.881	2076.414
7.5	2069.659	2067.970	2066.281	2072.192	2074.726
8.0	2067.126	2065.437	2064.593	2071.348	2073.881
8.5	2065.437	2062.904	2062.904	2069.659	2073.037
9.0	2062.904	2061.215	2061.215	2068.815	2072.192
9.5	2060.371	2058.682	2059.526	2067.126	2070.504
10.0	2056.993	2056.149	2056.993	2065.437	2069.659
10.5	2055.304	2052.771	2055.304	2064.593	2068.815
11.0	2051.926	2050.238	2052.771	2062.904	2067.126
11.5	2048.549	2046.860	2050.238	2061.215	2065.437
12.0	2045.171	2043.482	2047.704	2059.526	2064.593
12.5	2041.793	2040.105	2045.171	2057.837	2062.059
13.0	2037.571	2036.727	2042.638	2056.149	2061.215
13.5	2034.194	2033.349	2040.105	2053.615	2059.526
14.0	2029.972	2029.127	2036.727	2051.082	2057.837
14.5	2024.905	2025.750	2033.349	2048.549	2056.149
15.0	2021.528	2021.528	2029.972	2046.860	2053.615
15.5	2016.461	2016.461	2026.594	2043.482	2051.926
16.0	2012.239	2012.239	2023.216	2040.949	2048.549
16.5	2008.017	2008.017	2019.839	2037.571	2046.016
17.0	2002.950	2002.950	2015.617	2034.194	2043.482
17.5	1997.884	1998.728	2011.395	2030.816	2040.105
18.0	1992.817	1993.662	2008.017	2027.438	2036.727
18.5	1987.751	1989.440	2003.795	2023.216	2032.505
19.0	1981.840	1984.373	1999.573	2019.839	2028.283
19.5	1976.774	1978.462	1995.351	2015.617	2024.061
20.0	1970.863	1973.396	1991.129	2011.395	2019.839
20.5	1964.952	1968.329	1986.062	2007.172	2015.617
21.0	1959.041	1962.419	1980.996	2002.950	2010.550
21.5	1952.286	1956.508	1975.929	1997.884	2006.328
22.0	1946.375	1950.597	1970.863	1993.662	2002.106
22.5	1939.619	1944.686	1965.796	1988.595	1997.884
23.0	1933.708	1938.775	1960.730	1984.373	1993.662
23.5	1926.109	1932.020	1954.819	1979.307	1988.595
24.0	1918.509	1925.264	1948.908	1974.240	1984.373
24.5	1911.754	1918.509	1942.997	1970.018	1980.151
25.0	1904.154	1911.754	1937.931	1964.952	1975.085
25.5	1896.554	1904.154	1931.175	1959.885	1970.863
26.0	1888.955	1896.554	1925.264	1954.819	1966.641
26.5	1880.510	1888.955	1919.353	1949.752	1961.574

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**CANDELA TABULATION - (Cont.)**

27.0	1872.066	1881.355	1912.598	1944.686	1956.508
27.5	1863.622	1872.911	1906.687	1938.775	1951.441
28.0	1854.334	1865.311	1899.932	1932.864	1946.375
28.5	1845.889	1856.867	1893.177	1926.953	1940.464
29.0	1836.601	1848.423	1885.577	1920.198	1934.553
29.5	1827.312	1839.978	1878.822	1913.443	1927.798
30.0	1818.024	1831.534	1871.222	1906.687	1921.042
30.5	1807.891	1822.246	1863.622	1899.932	1914.287
31.0	1798.602	1813.802	1855.178	1892.332	1906.687
31.5	1789.314	1804.513	1847.578	1884.732	1899.087
32.0	1779.181	1796.069	1839.134	1877.133	1891.488
32.5	1769.048	1786.780	1830.690	1868.689	1883.888
33.0	1759.759	1776.647	1822.246	1861.089	1875.444
33.5	1748.782	1767.359	1813.802	1852.645	1867.844
34.0	1738.649	1757.226	1804.513	1844.201	1859.400
34.5	1727.671	1747.937	1795.225	1835.756	1850.956
35.0	1716.694	1737.804	1786.780	1827.312	1842.512
35.5	1706.561	1727.671	1777.492	1818.868	1834.068
36.0	1694.739	1717.538	1768.203	1809.580	1825.623
36.5	1682.917	1707.405	1758.070	1801.135	1816.335
37.0	1671.096	1696.428	1748.782	1791.847	1807.046
37.5	1660.118	1686.295	1738.649	1782.558	1797.758
38.0	1648.296	1674.473	1729.360	1772.425	1788.469
38.5	1636.475	1663.496	1719.227	1763.137	1779.181
39.0	1624.653	1652.519	1708.250	1753.004	1769.048
39.5	1612.831	1641.541	1698.117	1742.871	1758.915
40.0	1600.165	1630.564	1687.984	1732.738	1748.782
40.5	1588.343	1617.898	1677.007	1721.761	1738.649
41.0	1575.677	1606.076	1666.029	1710.783	1727.671
41.5	1563.011	1594.254	1654.207	1700.650	1716.694
42.0	1550.344	1582.432	1643.230	1688.828	1705.717
42.5	1537.678	1569.766	1631.408	1677.851	1693.895
43.0	1524.168	1557.100	1619.586	1666.874	1682.917
43.5	1510.657	1544.434	1607.765	1655.052	1671.096
44.0	1497.146	1531.767	1595.943	1643.230	1659.274
44.5	1483.636	1519.101	1583.277	1630.564	1647.452
45.0	1469.281	1505.590	1571.455	1618.742	1635.630
45.5	1455.770	1492.924	1559.633	1606.076	1622.964
46.0	1441.415	1479.414	1546.967	1593.410	1609.453
46.5	1427.060	1465.903	1534.301	1580.743	1596.787
47.0	1411.860	1452.392	1520.790	1567.233	1583.277
47.5	1397.505	1438.882	1508.124	1554.566	1570.610
48.0	1383.150	1425.371	1494.613	1541.056	1556.255
48.5	1367.951	1412.705	1481.947	1528.390	1542.745
49.0	1353.596	1398.350	1468.436	1514.879	1528.390
49.5	1339.241	1384.839	1454.926	1500.524	1514.035
50.0	1324.886	1371.329	1441.415	1486.169	1500.524
50.5	1309.686	1357.818	1427.904	1471.814	1486.169
51.0	1295.331	1343.463	1413.549	1457.459	1470.969
51.5	1280.132	1329.108	1400.039	1443.104	1455.770
52.0	1264.932	1314.753	1385.684	1427.904	1440.571
52.5	1249.733	1300.398	1371.329	1412.705	1425.371
53.0	1234.534	1286.043	1356.974	1397.505	1409.327
53.5	1219.334	1271.688	1342.619	1382.306	1392.439
54.0	1204.135	1257.333	1327.419	1366.262	1375.551
54.5	1188.091	1242.978	1313.064	1350.218	1358.662

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**CANDELA TABULATION - (Cont.)**

55.0	1172.047	1228.623	1297.865	1333.330	1341.774
55.5	1156.847	1213.423	1281.821	1316.442	1324.041
56.0	1140.804	1198.224	1266.621	1298.709	1306.309
56.5	1124.760	1183.024	1250.577	1281.821	1287.732
57.0	1108.716	1167.825	1234.534	1263.244	1268.310
57.5	1091.828	1152.625	1218.490	1245.511	1248.044
58.0	1075.784	1136.581	1202.446	1226.934	1228.623
58.5	1059.740	1121.382	1185.558	1208.357	1207.512
59.0	1043.696	1106.183	1168.669	1188.935	1187.246
59.5	1027.652	1090.983	1152.625	1168.669	1166.136
60.0	1010.764	1075.784	1135.737	1149.248	1143.337
60.5	994.720	1060.584	1118.849	1128.982	1121.382
61.0	977.832	1044.540	1102.805	1108.716	1097.738
61.5	961.788	1029.341	1085.917	1087.605	1074.095
62.0	944.899	1013.297	1068.184	1066.495	1048.762
62.5	928.011	998.098	1049.607	1043.696	1023.430
63.0	911.123	982.054	1031.874	1020.897	997.253
63.5	894.235	965.165	1013.297	997.253	969.387
64.0	877.346	949.122	994.720	971.921	940.677
64.5	859.614	933.078	974.454	946.588	911.123
65.0	841.965	916.189	955.032	918.723	879.035
65.5	824.148	899.301	934.766	889.168	845.259
66.0	805.740	881.568	912.812	858.769	809.709
66.5	787.163	863.836	890.857	827.948	773.737
67.0	768.755	845.259	868.902	794.425	736.076
67.5	749.840	827.441	845.259	760.733	698.162
68.0	730.672	809.118	820.433	725.605	662.274
68.5	711.503	790.372	795.269	690.393	626.218
69.0	691.913	771.372	769.261	655.350	587.543
69.5	673.674	752.457	742.662	620.391	548.363
70.0	656.785	733.374	715.388	582.899	510.617
70.5	640.488	713.783	688.873	545.407	473.801
71.0	620.813	694.615	660.754	508.337	438.673
71.5	600.716	677.896	632.044	471.774	405.488
72.0	580.873	658.136	602.574	436.647	373.231
72.5	561.029	640.657	569.220	402.617	342.326
73.0	541.016	621.320	536.119	370.951	314.460
73.5	521.764	600.970	501.413	341.650	288.959
74.0	502.342	580.450	467.299	313.700	265.568
74.5	483.005	559.256	432.762	287.776	243.951
75.0	463.077	537.892	398.479	263.795	223.770
75.5	443.909	515.937	365.462	241.587	205.784
76.0	425.416	493.476	333.459	221.405	188.895
76.5	405.994	471.268	303.398	203.082	173.780
77.0	387.248	448.215	275.701	186.278	160.016
77.5	367.827	425.078	250.200	171.247	147.435
78.0	349.250	401.266	226.641	157.821	136.542
78.5	330.588	376.102	205.362	145.239	126.409
79.0	311.927	350.939	186.616	133.755	116.782
79.5	293.518	325.353	169.389	123.369	108.338
80.0	275.448	299.260	153.852	113.827	100.823
80.5	257.293	272.577	139.835	105.298	93.983
81.0	238.800	246.400	126.915	97.361	87.735
81.5	220.645	220.223	115.094	90.183	81.655
82.0	202.997	195.144	104.454	83.428	75.491
82.5	185.518	172.176	94.828	76.842	69.664

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**CANDELA TABULATION - (Cont.)**

83.0	167.701	150.897	85.961	70.086	64.007
83.5	150.559	132.404	77.939	63.922	58.856
84.0	134.009	115.938	70.086	58.096	54.043
84.5	119.062	101.330	62.402	52.523	49.567
85.0	105.214	88.241	54.971	47.541	45.683
85.5	92.548	76.251	48.047	43.150	42.643
86.0	79.544	65.189	41.630	39.519	39.856
86.5	66.793	54.887	35.803	35.803	36.225
87.0	54.127	44.838	30.821	31.328	30.906
87.5	42.305	35.381	26.008	25.417	24.995
88.0	31.412	26.683	20.350	20.435	21.110
88.5	21.701	18.662	14.608	16.213	16.466
89.0	13.511	11.653	9.795	9.964	9.880
89.5	6.418	5.995	4.644	4.644	4.307
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-L75-940-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-L75-940-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-L75-940-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	772.54	N.A.	11.80
0-30	1666.93	N.A.	25.60
0-40	2782.94	N.A.	42.70
0-60	5129.15	N.A.	78.60
0-80	6440.36	N.A.	98.70
0-90	6523.25	N.A.	100.00
10-90	6325.51	N.A.	97.00
20-40	2010.41	N.A.	30.80
20-50	3215.29	N.A.	49.30
40-70	3237.63	N.A.	49.60
60-80	1311.21	N.A.	20.10
70-80	419.79	N.A.	6.40
80-90	82.89	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	6523.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	197.74
10-20	574.79
20-30	894.39
30-40	1116.02
40-50	1204.89
50-60	1141.32
60-70	891.42
70-80	419.79
80-90	82.89
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-L75-940-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	43	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-L75-940-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

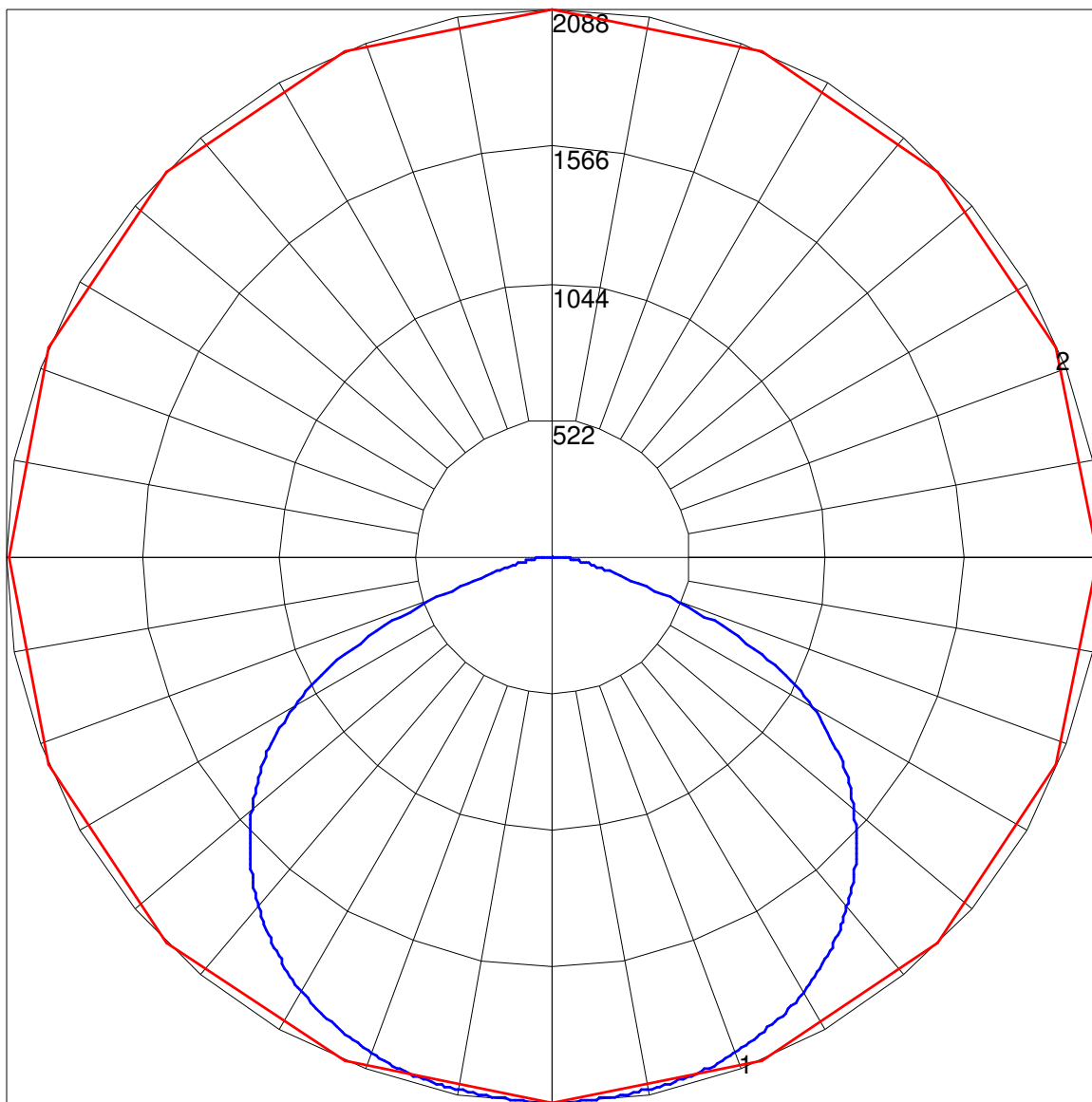
Reflectances

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	16.2	17.9	16.6	18.2	18.5	16.8	18.5	17.2	18.8	19.1
	3H	18.2	19.7	18.6	20.0	20.4	18.2	19.7	18.6	20.0	20.4
	4H	18.9	20.3	19.3	20.7	21.1	18.3	19.8	18.7	20.1	20.5
	6H	19.4	20.8	19.9	21.1	21.5	18.4	19.7	18.8	20.1	20.5
	8H	19.6	20.8	20.0	21.2	21.6	18.4	19.7	18.8	20.1	20.5
	12H	19.6	20.9	20.1	21.2	21.7	18.4	19.6	18.8	20.0	20.4
4H	2H	17.0	18.4	17.4	18.8	19.2	17.5	18.9	17.9	19.2	19.6
	3H	19.2	20.4	19.6	20.8	21.2	19.0	20.2	19.4	20.6	21.0
	4H	20.1	21.2	20.5	21.6	22.0	19.3	20.3	19.7	20.7	21.2
	6H	20.8	21.7	21.2	22.1	22.6	19.4	20.3	19.8	20.7	21.2
	8H	20.9	21.8	21.4	22.2	22.7	19.4	20.2	19.8	20.7	21.2
	12H	21.0	21.8	21.5	22.3	22.8	19.4	20.2	19.9	20.6	21.1
8H	4H	20.3	21.2	20.8	21.6	22.1	19.5	20.4	20.0	20.8	21.3
	6H	21.0	21.8	21.5	22.3	22.7	19.7	20.4	20.1	20.9	21.3
	8H	21.3	21.9	21.8	22.4	22.9	19.7	20.3	20.2	20.8	21.3
	12H	21.4	22.0	21.9	22.5	23.0	19.7	20.3	20.2	20.8	21.3
12H	4H	20.3	21.1	20.8	21.6	22.0	19.6	20.3	20.0	20.8	21.3
	6H	21.1	21.7	21.6	22.2	22.7	19.7	20.4	20.2	20.8	21.4
	8H	21.3	21.9	21.8	22.4	22.9	19.8	20.3	20.3	20.8	21.4

Maximum UGR = 23.0

POLAR GRAPH



Maximum Candela = 2088.236 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.)