



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-24-L60-840-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-L60-840-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	6041
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
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	2756	2948	3068
55	2710	3001	3103
65	2642	2997	2759
75	2373	2042	1147
85	1601	837	695

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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	1930.758	1930.758	1930.758	1930.758	1930.758
0.5	1929.194	1930.758	1929.194	1932.322	1933.886
1.0	1928.412	1929.976	1928.412	1931.540	1933.886
1.5	1928.412	1929.976	1927.630	1931.540	1933.104
2.0	1927.630	1929.194	1927.630	1930.758	1932.322
2.5	1927.630	1928.412	1926.848	1929.976	1931.540
3.0	1926.848	1927.630	1925.284	1928.412	1930.758
3.5	1926.066	1926.848	1924.502	1927.630	1929.194
4.0	1926.066	1926.066	1922.938	1926.848	1928.412
4.5	1924.502	1924.502	1922.156	1926.066	1927.630
5.0	1923.720	1923.720	1920.592	1924.502	1926.066
5.5	1922.938	1922.156	1919.810	1923.720	1925.284
6.0	1921.374	1920.592	1918.246	1922.938	1924.502
6.5	1919.810	1918.246	1916.682	1921.374	1923.720
7.0	1918.246	1916.682	1915.900	1920.592	1922.938
7.5	1916.682	1915.118	1913.554	1919.028	1921.374
8.0	1914.336	1912.772	1911.990	1918.246	1920.592
8.5	1912.772	1910.426	1910.426	1916.682	1919.810
9.0	1910.426	1908.862	1908.862	1915.900	1919.028
9.5	1908.080	1906.516	1907.298	1914.336	1917.464
10.0	1904.952	1904.170	1904.952	1912.772	1916.682
10.5	1903.388	1901.042	1903.388	1911.990	1915.900
11.0	1900.260	1898.696	1901.042	1910.426	1914.336
11.5	1897.132	1895.568	1898.696	1908.862	1912.772
12.0	1894.004	1892.440	1896.350	1907.298	1911.990
12.5	1890.876	1889.312	1894.004	1905.734	1909.644
13.0	1886.966	1886.184	1891.658	1904.170	1908.862
13.5	1883.838	1883.056	1889.312	1901.824	1907.298
14.0	1879.928	1879.146	1886.184	1899.478	1905.734
14.5	1875.236	1876.018	1883.056	1897.132	1904.170
15.0	1872.108	1872.108	1879.928	1895.568	1901.824
15.5	1867.416	1867.416	1876.800	1892.440	1900.260
16.0	1863.506	1863.506	1873.672	1890.094	1897.132
16.5	1859.596	1859.596	1870.544	1886.966	1894.786
17.0	1854.904	1854.904	1866.634	1883.838	1892.440
17.5	1850.212	1850.994	1862.724	1880.710	1889.312
18.0	1845.520	1846.302	1859.596	1877.582	1886.184
18.5	1840.828	1842.392	1855.686	1873.672	1882.274
19.0	1835.354	1837.700	1851.776	1870.544	1878.364
19.5	1830.662	1832.226	1847.866	1866.634	1874.454
20.0	1825.188	1827.534	1843.956	1862.724	1870.544
20.5	1819.714	1822.842	1839.264	1858.814	1866.634
21.0	1814.240	1817.368	1834.572	1854.904	1861.942
21.5	1807.984	1811.894	1829.880	1850.212	1858.032
22.0	1802.510	1806.420	1825.188	1846.302	1854.122
22.5	1796.254	1800.946	1820.496	1841.610	1850.212
23.0	1790.780	1795.472	1815.804	1837.700	1846.302
23.5	1783.742	1789.216	1810.330	1833.008	1841.610
24.0	1776.704	1782.960	1804.856	1828.316	1837.700
24.5	1770.448	1776.704	1799.382	1824.406	1833.790
25.0	1763.410	1770.448	1794.690	1819.714	1829.098
25.5	1756.372	1763.410	1788.434	1815.022	1825.188
26.0	1749.334	1756.372	1782.960	1810.330	1821.278
26.5	1741.514	1749.334	1777.486	1805.638	1816.586

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CANDELA TABULATION - (Cont.)

27.0	1733.694	1742.296	1771.230	1800.946	1811.894
27.5	1725.874	1734.476	1765.756	1795.472	1807.202
28.0	1717.272	1727.438	1759.500	1789.998	1802.510
28.5	1709.452	1719.618	1753.244	1784.524	1797.036
29.0	1700.850	1711.798	1746.206	1778.268	1791.562
29.5	1692.248	1703.978	1739.950	1772.012	1785.306
30.0	1683.646	1696.158	1732.912	1765.756	1779.050
30.5	1674.262	1687.556	1725.874	1759.500	1772.794
31.0	1665.660	1679.736	1718.054	1752.462	1765.756
31.5	1657.058	1671.134	1711.016	1745.424	1758.718
32.0	1647.674	1663.314	1703.196	1738.386	1751.680
32.5	1638.290	1654.712	1695.376	1730.566	1744.642
33.0	1629.688	1645.328	1687.556	1723.528	1736.822
33.5	1619.522	1636.726	1679.736	1715.708	1729.784
34.0	1610.138	1627.342	1671.134	1707.888	1721.964
34.5	1599.972	1618.740	1662.532	1700.068	1714.144
35.0	1589.806	1609.356	1654.712	1692.248	1706.324
35.5	1580.422	1599.972	1646.110	1684.428	1698.504
36.0	1569.474	1590.588	1637.508	1675.826	1690.684
36.5	1558.526	1581.204	1628.124	1668.006	1682.082
37.0	1547.578	1571.038	1619.522	1659.404	1673.480
37.5	1537.412	1561.654	1610.138	1650.802	1664.878
38.0	1526.464	1550.706	1601.536	1641.418	1656.276
38.5	1515.516	1540.540	1592.152	1632.816	1647.674
39.0	1504.568	1530.374	1581.986	1623.432	1638.290
39.5	1493.620	1520.208	1572.602	1614.048	1628.906
40.0	1481.890	1510.042	1563.218	1604.664	1619.522
40.5	1470.942	1498.312	1553.052	1594.498	1610.138
41.0	1459.212	1487.364	1542.886	1584.332	1599.972
41.5	1447.482	1476.416	1531.938	1574.948	1589.806
42.0	1435.752	1465.468	1521.772	1564.000	1579.640
42.5	1424.022	1453.738	1510.824	1553.834	1568.692
43.0	1411.510	1442.008	1499.876	1543.668	1558.526
43.5	1398.998	1430.278	1488.928	1532.720	1547.578
44.0	1386.486	1418.548	1477.980	1521.772	1536.630
44.5	1373.974	1406.818	1466.250	1510.042	1525.682
45.0	1360.680	1394.306	1455.302	1499.094	1514.734
45.5	1348.168	1382.576	1444.354	1487.364	1503.004
46.0	1334.874	1370.064	1432.624	1475.634	1490.492
46.5	1321.580	1357.552	1420.894	1463.904	1478.762
47.0	1307.504	1345.040	1408.382	1451.392	1466.250
47.5	1294.210	1332.528	1396.652	1439.662	1454.520
48.0	1280.916	1320.016	1384.140	1427.150	1441.226
48.5	1266.840	1308.286	1372.410	1415.420	1428.714
49.0	1253.546	1294.992	1359.898	1402.908	1415.420
49.5	1240.252	1282.480	1347.386	1389.614	1402.126
50.0	1226.958	1269.968	1334.874	1376.320	1389.614
50.5	1212.882	1257.456	1322.362	1363.026	1376.320
51.0	1199.588	1244.162	1309.068	1349.732	1362.244
51.5	1185.512	1230.868	1296.556	1336.438	1348.168
52.0	1171.436	1217.574	1283.262	1322.362	1334.092
52.5	1157.360	1204.280	1269.968	1308.286	1320.016
53.0	1143.284	1190.986	1256.674	1294.210	1305.158
53.5	1129.208	1177.692	1243.380	1280.134	1289.518
54.0	1115.132	1164.398	1229.304	1265.276	1273.878
54.5	1100.274	1151.104	1216.010	1250.418	1258.238

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CANDELA TABULATION - (Cont.)

55.0	1085.416	1137.810	1201.934	1234.778	1242.598
55.5	1071.340	1123.734	1187.076	1219.138	1226.176
56.0	1056.482	1109.658	1173.000	1202.716	1209.754
56.5	1041.624	1095.582	1158.142	1187.076	1192.550
57.0	1026.766	1081.506	1143.284	1169.872	1174.564
57.5	1011.126	1067.430	1128.426	1153.450	1155.796
58.0	996.268	1052.572	1113.568	1136.246	1137.810
58.5	981.410	1038.496	1097.928	1119.042	1118.260
59.0	966.552	1024.420	1082.288	1101.056	1099.492
59.5	951.694	1010.344	1067.430	1082.288	1079.942
60.0	936.054	996.268	1051.790	1064.302	1058.828
60.5	921.196	982.192	1036.150	1045.534	1038.496
61.0	905.556	967.334	1021.292	1026.766	1016.600
61.5	890.698	953.258	1005.652	1007.216	994.704
62.0	875.058	938.400	989.230	987.666	971.244
62.5	859.418	924.324	972.026	966.552	947.784
63.0	843.778	909.466	955.604	945.438	923.542
63.5	828.138	893.826	938.400	923.542	897.736
64.0	812.498	878.968	921.196	900.082	871.148
64.5	796.076	864.110	902.428	876.622	843.778
65.0	779.732	848.470	884.442	850.816	814.062
65.5	763.232	832.830	865.674	823.446	782.782
66.0	746.184	816.408	845.342	795.294	749.860
66.5	728.980	799.986	825.010	766.751	716.547
67.0	711.933	782.782	804.678	735.706	681.669
67.5	694.416	766.282	782.782	704.504	646.558
68.0	676.665	749.312	759.791	671.973	613.323
68.5	658.913	731.952	736.488	639.363	579.931
69.0	640.771	714.357	712.402	606.910	544.116
69.5	623.880	696.840	687.769	574.535	507.831
70.0	608.240	679.167	662.510	539.815	472.875
70.5	593.147	661.025	637.956	505.094	438.780
71.0	574.926	643.273	611.915	470.764	406.249
71.5	556.315	627.790	585.327	436.903	375.516
72.0	537.938	609.491	558.035	404.372	345.644
72.5	519.561	593.303	527.146	372.858	317.023
73.0	501.027	575.396	496.492	343.533	291.217
73.5	483.198	556.549	464.352	316.397	267.600
74.0	465.212	537.547	432.759	290.513	245.939
74.5	447.304	517.919	400.775	266.506	225.920
75.0	428.849	498.134	369.026	244.297	207.230
75.5	411.097	477.802	338.450	223.730	190.573
76.0	393.972	457.001	308.812	205.040	174.933
76.5	375.986	436.434	280.973	188.071	160.936
77.0	358.625	415.086	255.323	172.509	148.189
77.5	340.639	393.659	231.707	158.590	136.537
78.0	323.435	371.606	209.889	146.156	126.449
78.5	306.153	348.303	190.182	134.504	117.065
79.0	288.871	324.999	172.822	123.869	108.151
79.5	271.823	301.305	156.869	114.250	100.331
80.0	255.088	277.141	142.480	105.414	93.371
80.5	238.275	252.430	129.499	97.515	87.037
81.0	221.150	228.188	117.535	90.165	81.250
81.5	204.337	203.946	106.587	83.518	75.619
82.0	187.993	180.720	96.733	77.262	69.911
82.5	171.805	159.450	87.819	71.162	64.515

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CANDELA TABULATION - (Cont.)

83.0	155.305	139.743	79.608	64.906	59.276
83.5	139.431	122.618	72.179	59.197	54.505
84.0	124.103	107.369	64.906	53.802	50.048
84.5	110.262	93.840	57.790	48.640	45.903
85.0	97.437	81.719	50.908	44.027	42.306
85.5	85.707	70.615	44.496	39.960	39.491
86.0	73.664	60.370	38.553	36.598	36.910
86.5	61.856	50.830	33.157	33.157	33.548
87.0	50.126	41.524	28.543	29.012	28.621
87.5	39.178	32.766	24.086	23.538	23.147
88.0	29.090	24.711	18.846	18.924	19.550
88.5	20.097	17.282	13.529	15.014	15.249
89.0	12.512	10.792	9.071	9.228	9.149
89.5	5.943	5.552	4.301	4.301	3.988
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-L60-840-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-L60-840-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-L60-840-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	715.44	N.A.	11.80
0-30	1543.72	N.A.	25.60
0-40	2577.25	N.A.	42.70
0-60	4750.04	N.A.	78.60
0-80	5964.33	N.A.	98.70
0-90	6041.09	N.A.	100.00
10-90	5857.96	N.A.	97.00
20-40	1861.81	N.A.	30.80
20-50	2977.64	N.A.	49.30
40-70	2998.32	N.A.	49.60
60-80	1214.29	N.A.	20.10
70-80	388.76	N.A.	6.40
80-90	76.76	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	6041.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	183.13
10-20	532.31
20-30	828.28
30-40	1033.53
40-50	1115.83
50-60	1056.96
60-70	825.53
70-80	388.76
80-90	76.76
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-L60-840-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	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-L60-840-DIM-UNV_.IES

UGR TABLE - CORRECTED

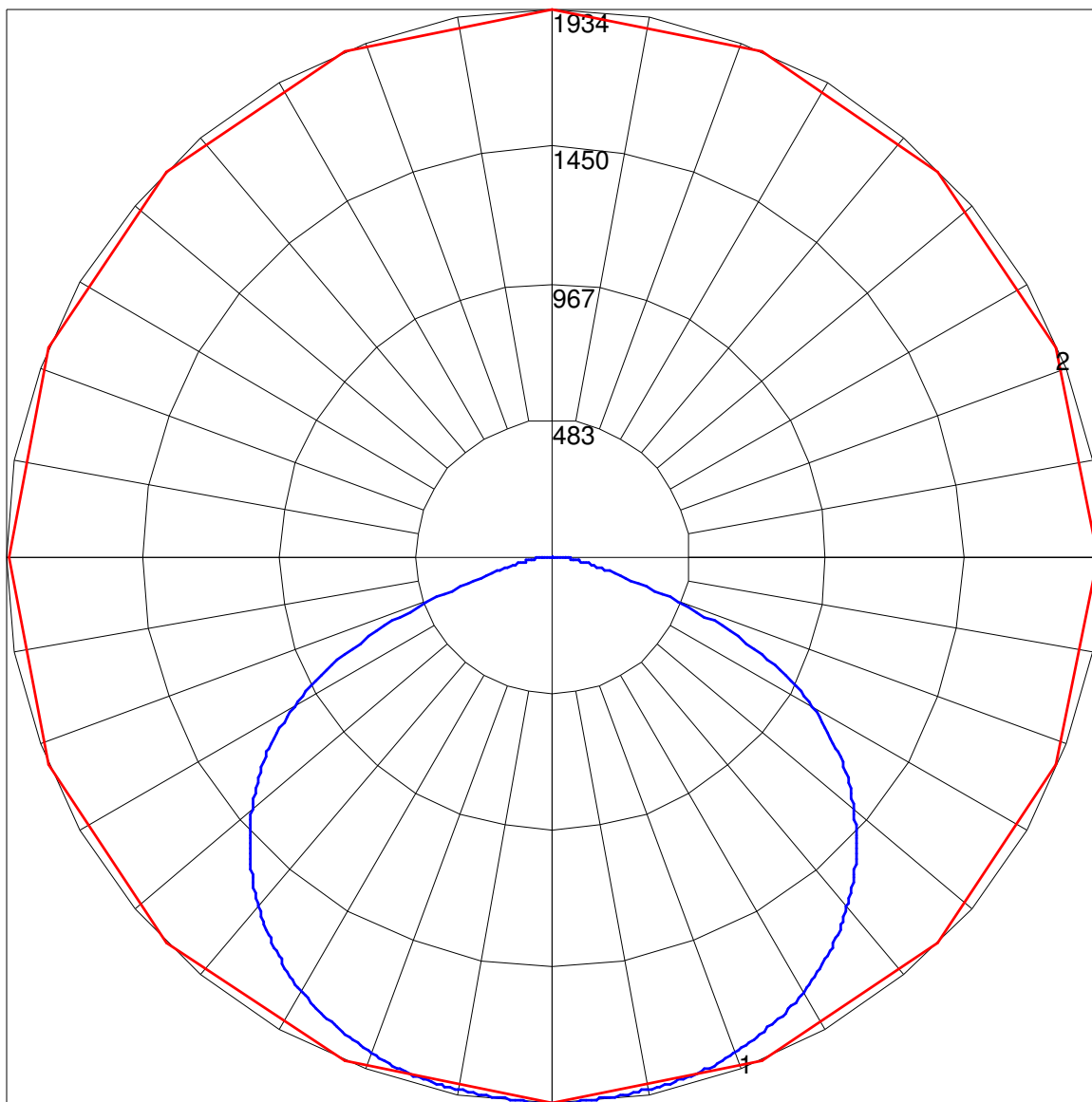
Reflectances

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	16.0	17.7	16.4	18.0	18.3	16.6	18.3	17.0	18.6	18.9
	3H	18.0	19.5	18.4	19.8	20.2	18.0	19.5	18.4	19.8	20.2
	4H	18.7	20.1	19.1	20.5	20.9	18.1	19.6	18.5	19.9	20.3
	6H	19.2	20.6	19.7	20.9	21.3	18.2	19.5	18.6	19.9	20.3
	8H	19.4	20.6	19.8	21.0	21.4	18.2	19.5	18.6	19.9	20.3
	12H	19.5	20.7	19.9	21.0	21.5	18.2	19.4	18.6	19.8	20.2
4H	2H	16.8	18.2	17.2	18.6	19.0	17.3	18.7	17.7	19.0	19.4
	3H	19.0	20.2	19.4	20.6	21.0	18.8	20.0	19.2	20.4	20.8
	4H	19.9	21.0	20.3	21.4	21.8	19.1	20.1	19.5	20.5	21.0
	6H	20.6	21.5	21.0	21.9	22.4	19.2	20.1	19.6	20.5	21.0
	8H	20.7	21.6	21.2	22.0	22.5	19.2	20.0	19.6	20.5	21.0
	12H	20.8	21.6	21.3	22.1	22.6	19.2	20.0	19.7	20.4	20.9
8H	4H	20.1	21.0	20.6	21.4	21.9	19.3	20.2	19.8	20.6	21.1
	6H	20.8	21.6	21.3	22.1	22.5	19.5	20.2	19.9	20.7	21.1
	8H	21.1	21.7	21.6	22.2	22.7	19.5	20.1	20.0	20.6	21.1
	12H	21.2	21.8	21.7	22.3	22.8	19.5	20.1	20.0	20.6	21.1
12H	4H	20.1	20.9	20.6	21.4	21.8	19.4	20.1	19.8	20.6	21.1
	6H	20.9	21.5	21.4	22.0	22.5	19.5	20.2	20.0	20.6	21.2
	8H	21.1	21.7	21.6	22.2	22.7	19.6	20.1	20.1	20.6	21.2

Maximum UGR = 22.8

POLAR GRAPH



Maximum Candela = 1933.886 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.)