



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-24-L60-830-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-L60-830-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	5806
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
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	2649	2833	2949
55	2605	2885	2982
65	2540	2881	2652
75	2281	1963	1102
85	1539	804	668

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-24-L60-830-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1855.777	1855.777	1855.777	1855.777	1855.777
0.5	1854.274	1855.777	1854.274	1857.280	1858.784
1.0	1853.522	1855.026	1853.522	1856.529	1858.784
1.5	1853.522	1855.026	1852.771	1856.529	1858.032
2.0	1852.771	1854.274	1852.771	1855.777	1857.280
2.5	1852.771	1853.522	1852.019	1855.026	1856.529
3.0	1852.019	1852.771	1850.516	1853.522	1855.777
3.5	1851.267	1852.019	1849.764	1852.771	1854.274
4.0	1851.267	1851.267	1848.261	1852.019	1853.522
4.5	1849.764	1849.764	1847.509	1851.267	1852.771
5.0	1849.012	1849.012	1846.006	1849.764	1851.267
5.5	1848.261	1847.509	1845.254	1849.012	1850.516
6.0	1846.758	1846.006	1843.751	1848.261	1849.764
6.5	1845.254	1843.751	1842.248	1846.758	1849.012
7.0	1843.751	1842.248	1841.496	1846.006	1848.261
7.5	1842.248	1840.745	1839.241	1844.503	1846.758
8.0	1839.993	1838.490	1837.738	1843.751	1846.006
8.5	1838.490	1836.235	1836.235	1842.248	1845.254
9.0	1836.235	1834.731	1834.731	1841.496	1844.503
9.5	1833.980	1832.477	1833.228	1839.993	1842.999
10.0	1830.973	1830.222	1830.973	1838.490	1842.248
10.5	1829.470	1827.215	1829.470	1837.738	1841.496
11.0	1826.464	1824.960	1827.215	1836.235	1839.993
11.5	1823.457	1821.954	1824.960	1834.731	1838.490
12.0	1820.450	1818.947	1822.705	1833.228	1837.738
12.5	1817.444	1815.941	1820.450	1831.725	1835.483
13.0	1813.686	1812.934	1818.196	1830.222	1834.731
13.5	1810.679	1809.928	1815.941	1827.967	1833.228
14.0	1806.921	1806.169	1812.934	1825.712	1831.725
14.5	1802.411	1803.163	1809.928	1823.457	1830.222
15.0	1799.405	1799.405	1806.921	1821.954	1827.967
15.5	1794.895	1794.895	1803.915	1818.947	1826.464
16.0	1791.137	1791.137	1800.908	1816.692	1823.457
16.5	1787.379	1787.379	1797.902	1813.686	1821.202
17.0	1782.869	1782.869	1794.143	1810.679	1818.947
17.5	1778.359	1779.111	1790.385	1807.673	1815.941
18.0	1773.849	1774.601	1787.379	1804.666	1812.934
18.5	1769.340	1770.843	1783.621	1800.908	1809.176
19.0	1764.078	1766.333	1779.862	1797.902	1805.418
19.5	1759.568	1761.072	1776.104	1794.143	1801.660
20.0	1754.307	1756.562	1772.346	1790.385	1797.902
20.5	1749.046	1752.052	1767.836	1786.627	1794.143
21.0	1743.784	1746.791	1763.327	1782.869	1789.634
21.5	1737.771	1741.529	1758.817	1778.359	1785.875
22.0	1732.510	1736.268	1754.307	1774.601	1782.117
22.5	1726.497	1731.006	1749.797	1770.091	1778.359
23.0	1721.235	1725.745	1745.287	1766.333	1774.601
23.5	1714.470	1719.732	1740.026	1761.823	1770.091
24.0	1707.706	1713.719	1734.765	1757.313	1766.333
24.5	1701.693	1707.706	1729.503	1753.555	1762.575
25.0	1694.928	1701.693	1724.993	1749.046	1758.065
25.5	1688.163	1694.928	1718.980	1744.536	1754.307
26.0	1681.399	1688.163	1713.719	1740.026	1750.549
26.5	1673.882	1681.399	1708.457	1735.516	1746.039

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-24-L60-830-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	1666.366	1674.634	1702.444	1731.006	1741.529
27.5	1658.850	1667.118	1697.183	1725.745	1737.019
28.0	1650.582	1660.353	1691.170	1720.484	1732.510
28.5	1643.066	1652.837	1685.157	1715.222	1727.248
29.0	1634.798	1645.320	1678.392	1709.209	1721.987
29.5	1626.530	1637.804	1672.379	1703.196	1715.974
30.0	1618.262	1630.288	1665.614	1697.183	1709.961
30.5	1609.242	1622.020	1658.850	1691.170	1703.948
31.0	1600.974	1614.504	1651.333	1684.405	1697.183
31.5	1592.706	1606.236	1644.569	1677.641	1690.418
32.0	1583.687	1598.719	1637.052	1670.876	1683.654
32.5	1574.667	1590.451	1629.536	1663.360	1676.889
33.0	1566.399	1581.432	1622.020	1656.595	1669.373
33.5	1556.628	1573.164	1614.504	1649.079	1662.608
34.0	1547.608	1564.144	1606.236	1641.562	1655.092
34.5	1537.837	1555.876	1597.968	1634.046	1647.575
35.0	1528.066	1546.857	1590.451	1626.530	1640.059
35.5	1519.046	1537.837	1582.183	1619.013	1632.543
36.0	1508.524	1528.818	1573.915	1610.745	1625.026
36.5	1498.001	1519.798	1564.896	1603.229	1616.758
37.0	1487.478	1510.027	1556.628	1594.961	1608.491
37.5	1477.707	1501.007	1547.608	1586.693	1600.223
38.0	1467.184	1490.484	1539.340	1577.674	1591.955
38.5	1456.661	1480.713	1530.321	1569.406	1583.687
39.0	1446.138	1470.942	1520.550	1560.386	1574.667
39.5	1435.615	1461.171	1511.530	1551.367	1565.648
40.0	1424.341	1451.400	1502.511	1542.347	1556.628
40.5	1413.818	1440.125	1492.739	1532.576	1547.608
41.0	1402.544	1429.602	1482.968	1522.805	1537.837
41.5	1391.269	1419.079	1472.445	1513.785	1528.066
42.0	1379.995	1408.557	1462.674	1503.262	1518.295
42.5	1368.720	1397.282	1452.151	1493.491	1507.772
43.0	1356.694	1386.008	1441.628	1483.720	1498.001
43.5	1344.668	1374.733	1431.106	1473.197	1487.478
44.0	1332.642	1363.459	1420.583	1462.674	1476.955
44.5	1320.616	1352.184	1409.308	1451.400	1466.432
45.0	1307.838	1340.158	1398.785	1440.877	1455.909
45.5	1295.812	1328.884	1388.263	1429.602	1444.635
46.0	1283.034	1316.858	1376.988	1418.328	1432.609
46.5	1270.257	1304.832	1365.714	1407.053	1421.334
47.0	1256.727	1292.805	1353.688	1395.027	1409.308
47.5	1243.949	1280.779	1342.413	1383.753	1398.034
48.0	1231.172	1268.753	1330.387	1371.727	1385.256
48.5	1217.642	1257.479	1319.113	1360.452	1373.230
49.0	1204.865	1244.701	1307.086	1348.426	1360.452
49.5	1192.087	1232.675	1295.060	1335.648	1347.675
50.0	1179.309	1220.649	1283.034	1322.871	1335.648
50.5	1165.780	1208.623	1271.008	1310.093	1322.871
51.0	1153.002	1195.845	1258.230	1297.315	1309.341
51.5	1139.473	1183.067	1246.204	1284.538	1295.812
52.0	1125.943	1170.290	1233.427	1271.008	1282.283
52.5	1112.414	1157.512	1220.649	1257.479	1268.753
53.0	1098.885	1144.734	1207.871	1243.949	1254.472
53.5	1085.355	1131.956	1195.093	1230.420	1239.440
54.0	1071.826	1119.179	1181.564	1216.139	1224.407
54.5	1057.545	1106.401	1168.786	1201.858	1209.374

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-24-L60-830-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	1043.264	1093.623	1155.257	1186.825	1194.342
55.5	1029.735	1080.094	1140.976	1171.793	1178.558
56.0	1015.454	1066.565	1127.447	1156.009	1162.773
56.5	1001.173	1053.035	1113.166	1140.976	1146.237
57.0	986.892	1039.506	1098.885	1124.440	1128.950
57.5	971.859	1025.976	1084.604	1108.656	1110.911
58.0	957.578	1011.695	1070.323	1092.120	1093.623
58.5	943.297	998.166	1055.290	1075.584	1074.832
59.0	929.016	984.637	1040.257	1058.297	1056.793
59.5	914.735	971.107	1025.976	1040.257	1038.003
60.0	899.702	957.578	1010.944	1022.970	1017.708
60.5	885.421	944.049	995.911	1004.931	998.166
61.0	870.389	929.768	981.630	986.892	977.120
61.5	856.108	916.238	966.598	968.101	956.075
62.0	841.075	901.957	950.813	949.310	933.526
62.5	826.043	888.428	934.277	929.016	910.977
63.0	811.010	874.147	918.493	908.722	887.676
63.5	795.977	859.114	901.957	887.676	862.872
64.0	780.945	844.833	885.421	865.127	837.317
64.5	765.160	830.552	867.382	842.578	811.010
65.0	749.451	815.520	850.095	817.775	782.448
65.5	733.592	800.487	832.056	791.468	752.383
66.0	717.206	784.703	812.513	764.409	720.739
66.5	700.670	768.919	792.971	736.974	688.720
67.0	684.285	752.383	773.428	707.135	655.197
67.5	667.448	736.523	752.383	677.144	621.449
68.0	650.386	720.213	730.285	645.877	589.504
68.5	633.324	703.527	707.886	614.534	557.410
69.0	615.887	686.615	684.736	583.341	522.985
69.5	599.651	669.778	661.060	552.223	488.109
70.0	584.619	652.792	636.782	518.851	454.511
70.5	570.112	635.354	613.181	485.479	421.740
71.0	552.599	618.292	588.151	452.482	390.472
71.5	534.710	603.409	562.596	419.936	360.933
72.0	517.047	585.821	536.364	388.668	332.221
72.5	499.384	570.263	506.675	358.378	304.711
73.0	481.570	553.050	477.211	330.192	279.907
73.5	464.433	534.936	446.319	304.110	257.208
74.0	447.145	516.671	415.953	279.231	236.388
74.5	429.933	497.805	385.211	256.156	217.146
75.0	412.194	478.789	354.695	234.810	199.182
75.5	395.132	459.247	325.306	215.042	183.172
76.0	378.672	439.253	296.819	197.078	168.140
76.5	361.384	419.485	270.061	180.767	154.686
77.0	344.698	398.966	245.408	165.810	142.434
77.5	327.410	378.371	222.708	152.431	131.235
78.0	310.875	357.175	201.738	140.480	121.539
78.5	294.264	334.776	182.797	129.281	112.519
79.0	277.653	312.378	166.110	119.058	103.951
79.5	261.267	289.603	150.777	109.813	96.434
80.0	245.182	266.378	136.947	101.320	89.745
80.5	229.022	242.627	124.470	93.728	83.657
81.0	212.561	219.326	112.970	86.663	78.094
81.5	196.401	196.025	102.447	80.274	72.683
82.0	180.692	173.702	92.977	74.261	67.196
82.5	165.133	153.258	84.408	68.398	62.010

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-24-L60-830-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	149.274	134.316	76.516	62.385	56.974
83.5	134.016	117.856	69.376	56.898	52.389
84.0	119.284	103.199	62.385	51.712	48.104
84.5	105.980	90.196	55.546	46.751	44.121
85.0	93.653	78.545	48.931	42.317	40.663
85.5	82.379	67.872	42.768	38.408	37.957
86.0	70.804	58.026	37.055	35.176	35.477
86.5	59.454	48.856	31.869	31.869	32.245
87.0	48.180	39.912	27.435	27.886	27.510
87.5	37.657	31.493	23.150	22.624	22.248
88.0	27.961	23.752	18.114	18.189	18.791
88.5	19.317	16.611	13.003	14.431	14.657
89.0	12.026	10.373	8.719	8.869	8.794
89.5	5.712	5.337	4.134	4.134	3.833
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-24-L60-830-DIM-UNV_.IES

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-L60-830-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-L60-830-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-L60-830-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	687.65	N.A.	11.80
0-30	1483.77	N.A.	25.60
0-40	2477.16	N.A.	42.70
0-60	4565.57	N.A.	78.60
0-80	5732.7	N.A.	98.70
0-90	5806.48	N.A.	100.00
10-90	5630.47	N.A.	97.00
20-40	1789.51	N.A.	30.80
20-50	2862.00	N.A.	49.30
40-70	2881.88	N.A.	49.60
60-80	1167.13	N.A.	20.10
70-80	373.66	N.A.	6.40
80-90	73.78	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	5806.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	176.02
10-20	511.64
20-30	796.12
30-40	993.39
40-50	1072.5
50-60	1015.92
60-70	793.47
70-80	373.66
80-90	73.78
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-L60-830-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-L60-830-DIM-UNV_.IES

UGR TABLE - CORRECTED

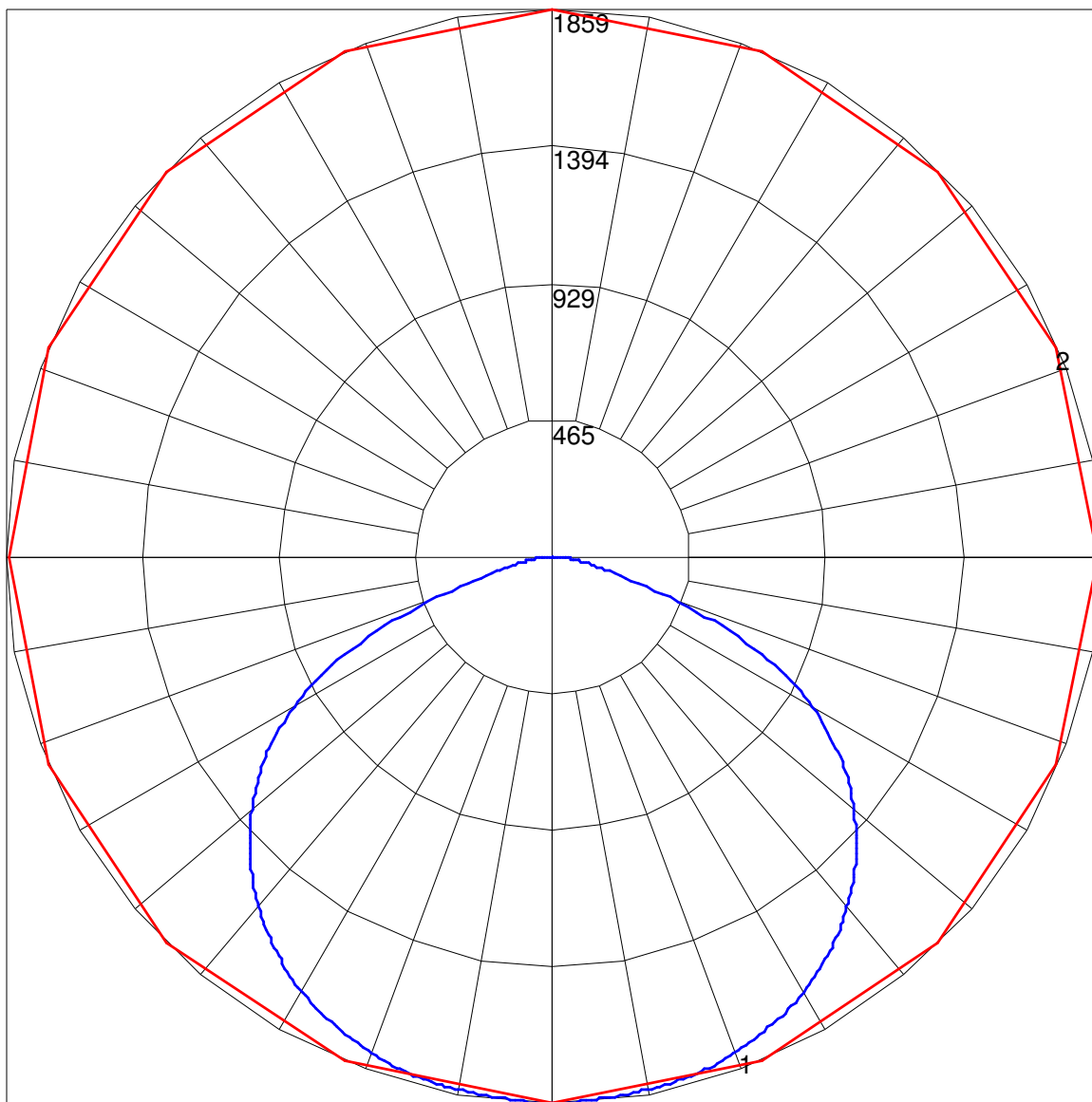
Reflectances

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	15.8	17.5	16.2	17.8	18.1	16.4	18.1	16.8	18.4	18.7
	3H	17.8	19.3	18.2	19.6	20.0	17.8	19.3	18.2	19.6	20.0
	4H	18.5	19.9	18.9	20.3	20.7	17.9	19.4	18.3	19.7	20.1
	6H	19.0	20.4	19.5	20.7	21.1	18.0	19.3	18.4	19.7	20.1
	8H	19.2	20.4	19.6	20.8	21.2	18.0	19.3	18.4	19.7	20.1
	12H	19.2	20.5	19.7	20.8	21.3	18.0	19.2	18.4	19.6	20.0
4H	2H	16.6	18.0	17.0	18.4	18.8	17.1	18.5	17.5	18.8	19.2
	3H	18.8	20.0	19.2	20.4	20.8	18.6	19.8	19.0	20.2	20.6
	4H	19.7	20.8	20.1	21.2	21.6	18.9	19.9	19.3	20.3	20.8
	6H	20.4	21.3	20.8	21.7	22.2	19.0	19.9	19.4	20.3	20.8
	8H	20.5	21.4	21.0	21.8	22.3	19.0	19.8	19.4	20.3	20.8
	12H	20.6	21.4	21.1	21.9	22.4	19.0	19.8	19.5	20.2	20.7
8H	4H	19.9	20.8	20.4	21.2	21.7	19.1	20.0	19.6	20.4	20.9
	6H	20.6	21.4	21.1	21.9	22.3	19.3	20.0	19.7	20.5	20.9
	8H	20.9	21.5	21.4	22.0	22.5	19.3	19.9	19.8	20.4	20.9
	12H	21.0	21.6	21.5	22.1	22.6	19.3	19.9	19.8	20.4	20.9
12H	4H	19.9	20.7	20.4	21.2	21.6	19.2	19.9	19.6	20.4	20.9
	6H	20.7	21.3	21.2	21.8	22.3	19.3	20.0	19.8	20.4	21.0
	8H	20.9	21.5	21.4	22.0	22.5	19.4	19.9	19.9	20.4	21.0

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 1858.784 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.)