



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BAR-14-L60-930-DIM-UNV\_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] GENERATED FROM 15729805.01  
[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-14-L60-930-DIM-UNV  
[LUMINAIRE] Recessed 1 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	4981
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	51.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	0.92 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5369	5129	4775
55	5311	4702	4066
65	5297	3965	3216
75	5058	2786	2258
85	3273	1649	1733

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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	1787.439	1787.439	1787.439	1787.439	1787.439
0.5	1784.287	1788.227	1785.863	1789.016	1790.592
1.0	1784.287	1787.439	1785.075	1788.227	1789.804
1.5	1783.499	1787.439	1784.287	1787.439	1789.016
2.0	1783.499	1786.651	1783.499	1786.651	1788.227
2.5	1782.711	1785.863	1782.711	1785.863	1786.651
3.0	1782.711	1785.075	1781.134	1784.287	1785.075
3.5	1781.923	1784.287	1780.346	1782.711	1784.287
4.0	1781.134	1783.499	1778.770	1781.923	1782.711
4.5	1780.346	1782.711	1777.194	1780.346	1781.134
5.0	1779.558	1781.134	1775.618	1778.770	1778.770
5.5	1778.770	1779.558	1774.041	1777.194	1777.194
6.0	1777.982	1777.982	1772.465	1774.830	1775.618
6.5	1776.406	1776.406	1770.889	1773.253	1774.041
7.0	1774.830	1774.830	1768.525	1771.677	1771.677
7.5	1773.253	1772.465	1766.948	1769.313	1770.101
8.0	1771.677	1770.889	1764.584	1767.737	1767.737
8.5	1770.101	1768.525	1762.220	1765.372	1766.160
9.0	1767.737	1766.160	1760.644	1763.008	1763.796
9.5	1766.160	1763.796	1758.279	1760.644	1761.432
10.0	1763.796	1761.432	1755.127	1758.279	1759.067
10.5	1761.432	1759.067	1752.762	1755.127	1756.703
11.0	1758.279	1755.915	1750.398	1752.762	1754.339
11.5	1755.915	1753.550	1747.246	1750.398	1751.186
12.0	1753.550	1750.398	1744.093	1747.246	1748.034
12.5	1750.398	1747.246	1740.941	1744.093	1744.881
13.0	1747.246	1744.093	1737.788	1740.941	1741.729
13.5	1744.093	1740.941	1734.636	1737.788	1738.576
14.0	1740.153	1737.000	1730.695	1734.636	1735.424
14.5	1737.000	1733.060	1727.543	1730.695	1732.271
15.0	1733.060	1729.907	1723.602	1726.755	1728.331
15.5	1729.119	1725.967	1719.662	1722.814	1724.390
16.0	1725.178	1721.238	1714.933	1718.874	1720.450
16.5	1721.238	1717.297	1710.992	1714.145	1716.509
17.0	1717.297	1713.357	1706.264	1709.416	1711.781
17.5	1713.357	1708.628	1702.323	1704.688	1707.052
18.0	1709.416	1704.688	1697.594	1699.959	1701.535
18.5	1704.688	1699.959	1692.866	1695.230	1696.806
19.0	1700.747	1695.230	1688.137	1689.713	1690.501
19.5	1696.018	1690.501	1682.620	1684.197	1684.985
20.0	1691.290	1685.773	1677.892	1678.680	1678.680
20.5	1685.773	1681.044	1672.375	1673.163	1672.375
21.0	1681.044	1675.527	1666.858	1666.858	1666.070
21.5	1676.315	1670.011	1661.341	1660.553	1659.765
22.0	1670.799	1664.494	1655.825	1655.036	1653.460
22.5	1665.282	1658.977	1649.520	1647.943	1647.155
23.0	1659.765	1653.460	1644.003	1641.639	1640.850
23.5	1654.248	1647.155	1637.698	1635.334	1633.757
24.0	1647.943	1640.850	1631.393	1628.241	1626.664
24.5	1641.639	1634.545	1625.088	1621.148	1619.571
25.0	1635.334	1627.452	1617.995	1614.843	1613.266
25.5	1629.029	1621.148	1611.690	1607.750	1606.173
26.0	1622.724	1614.055	1604.597	1600.657	1599.080
26.5	1615.631	1606.962	1597.504	1593.564	1591.987

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**CANDELA TABULATION - (Cont.)**

27.0	1608.538	1599.869	1590.411	1586.471	1584.106
27.5	1601.445	1591.987	1583.318	1578.589	1576.225
28.0	1593.564	1584.894	1576.225	1570.708	1568.344
28.5	1586.471	1577.013	1568.344	1562.039	1559.675
29.0	1578.589	1569.132	1560.463	1554.158	1551.006
29.5	1570.708	1562.039	1552.582	1544.701	1542.336
30.0	1562.827	1554.158	1544.701	1536.031	1532.091
30.5	1554.946	1545.489	1536.031	1526.574	1521.845
31.0	1547.065	1537.608	1527.362	1517.117	1511.600
31.5	1539.184	1528.938	1518.693	1506.871	1501.354
32.0	1530.515	1521.057	1510.024	1496.626	1490.321
32.5	1521.845	1512.388	1500.566	1486.380	1479.287
33.0	1513.964	1503.719	1491.109	1476.135	1468.254
33.5	1504.507	1495.050	1481.652	1465.101	1456.432
34.0	1495.838	1486.380	1471.406	1454.068	1444.610
34.5	1487.168	1477.711	1461.949	1442.246	1432.789
35.0	1478.499	1468.254	1451.703	1431.212	1420.179
35.5	1469.830	1458.796	1441.458	1419.391	1408.357
36.0	1460.373	1449.339	1431.212	1407.569	1395.747
36.5	1450.915	1439.882	1420.179	1395.747	1382.349
37.0	1441.458	1429.636	1409.933	1383.138	1369.740
37.5	1432.001	1420.179	1398.900	1370.528	1356.342
38.0	1421.755	1409.933	1387.866	1357.918	1342.944
38.5	1411.510	1399.688	1376.045	1345.308	1329.546
39.0	1401.264	1389.442	1365.011	1331.910	1315.360
39.5	1390.231	1379.197	1353.189	1317.724	1301.962
40.0	1379.985	1368.163	1341.368	1303.538	1286.988
40.5	1369.740	1357.130	1329.546	1289.352	1271.226
41.0	1358.706	1346.096	1316.936	1275.166	1256.251
41.5	1347.673	1335.063	1305.114	1260.192	1241.277
42.0	1336.639	1324.029	1291.717	1246.006	1226.303
42.5	1325.605	1312.996	1279.107	1230.244	1210.541
43.0	1313.784	1301.174	1265.709	1215.270	1193.202
43.5	1301.962	1290.140	1252.311	1199.507	1177.440
44.0	1290.928	1277.530	1238.913	1183.745	1160.890
44.5	1279.107	1265.709	1224.727	1167.983	1143.551
45.0	1268.073	1253.887	1211.329	1152.221	1127.789
45.5	1256.251	1242.065	1197.143	1136.458	1111.239
46.0	1244.430	1229.456	1182.957	1119.908	1094.688
46.5	1232.608	1217.634	1167.983	1103.358	1077.350
47.0	1220.786	1205.024	1153.797	1086.807	1060.011
47.5	1208.965	1192.414	1139.611	1070.257	1043.461
48.0	1197.143	1179.805	1124.637	1053.707	1026.123
48.5	1184.533	1167.983	1109.663	1037.156	1008.784
49.0	1171.923	1154.585	1094.688	1020.606	991.446
49.5	1159.314	1141.975	1078.926	1003.267	973.319
50.0	1146.704	1129.365	1063.164	985.929	955.981
50.5	1134.882	1115.967	1048.190	969.378	938.642
51.0	1121.484	1103.358	1031.639	952.040	921.304
51.5	1108.874	1089.960	1015.877	935.490	903.965
52.0	1096.265	1076.562	1000.115	917.363	886.627
52.5	1082.867	1063.164	984.353	900.025	868.500
53.0	1069.469	1049.766	967.802	881.898	851.162
53.5	1056.859	1035.580	950.464	863.771	833.035
54.0	1044.249	1022.182	934.702	846.433	814.120
54.5	1030.851	1007.996	918.151	828.306	795.994

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**CANDELA TABULATION - (Cont.)**

55.0	1017.453	993.810	900.813	810.968	778.892
55.5	1004.055	979.624	883.474	792.841	760.765
56.0	990.658	965.438	866.136	775.345	742.560
56.5	977.260	950.464	848.797	757.455	724.197
57.0	964.650	936.278	831.459	739.092	706.622
57.5	951.252	922.092	814.120	721.123	689.283
58.0	937.854	907.118	795.994	703.548	671.787
58.5	924.456	892.143	778.025	685.816	654.449
59.0	911.846	877.169	759.819	668.398	637.583
59.5	898.448	862.195	742.166	650.902	623.003
60.0	885.050	846.433	724.512	635.613	606.374
60.5	871.653	831.459	707.016	619.456	591.951
61.0	859.043	816.485	689.520	603.458	575.401
61.5	844.857	800.722	672.339	589.666	559.481
62.0	831.459	785.591	655.552	573.194	543.088
62.5	818.061	770.144	639.475	557.117	527.247
63.0	804.663	754.145	624.028	541.197	511.721
63.5	790.477	738.383	608.423	525.513	496.669
64.0	776.449	722.148	593.764	509.988	482.325
64.5	762.184	706.306	576.741	494.541	468.218
65.0	747.682	689.835	559.718	479.645	453.953
65.5	732.787	672.891	542.694	464.356	440.003
66.0	718.365	655.631	525.356	449.382	425.896
66.5	703.548	639.396	508.096	434.329	411.710
67.0	688.889	623.318	491.152	419.512	397.524
67.5	673.915	608.186	474.207	404.696	383.496
68.0	658.310	591.715	457.184	390.195	369.625
68.5	642.391	574.219	440.240	375.220	355.675
69.0	628.283	555.935	423.532	360.325	342.198
69.5	616.068	537.256	406.430	345.903	328.564
70.0	601.488	518.736	389.564	331.953	315.403
70.5	585.174	499.979	373.092	318.319	302.162
71.0	568.860	481.300	357.094	304.842	289.789
71.5	551.994	462.464	341.489	291.996	277.573
72.0	535.759	443.944	325.727	279.228	265.358
72.5	519.524	425.423	310.359	266.697	252.984
73.0	503.131	407.060	295.779	254.482	240.847
73.5	486.660	388.934	281.593	242.108	228.947
74.0	470.188	371.122	267.722	229.892	217.361
74.5	453.795	352.996	254.166	217.992	206.013
75.0	437.245	335.421	240.847	206.013	195.215
75.5	420.300	317.925	228.237	194.743	185.049
76.0	403.671	300.665	215.864	183.788	175.197
76.5	386.963	283.721	203.569	173.385	165.346
77.0	370.492	266.934	191.669	163.455	156.125
77.5	353.626	250.777	179.926	153.918	147.062
78.0	336.366	235.094	168.341	144.619	138.393
78.5	319.501	219.568	157.071	135.477	130.275
79.0	302.162	204.673	146.274	126.886	122.157
79.5	284.903	190.250	135.871	118.453	114.355
80.0	267.091	176.222	125.940	110.415	106.868
80.5	249.516	162.824	116.483	102.849	99.854
81.0	231.784	149.820	107.499	95.519	93.628
81.5	213.657	137.132	98.751	88.663	87.875
82.0	195.610	124.995	90.160	82.515	82.043
82.5	177.483	113.331	82.200	76.526	75.659

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**CANDELA TABULATION - (Cont.)**

83.0	159.908	102.139	74.398	70.221	68.960
83.5	141.939	90.633	67.541	63.364	62.813
84.0	125.073	79.993	61.079	57.217	57.926
84.5	109.232	70.142	54.616	52.409	53.907
85.0	95.283	60.842	47.996	48.390	50.439
85.5	82.200	52.015	42.085	44.765	46.656
86.0	69.590	43.977	37.120	40.588	42.164
86.5	57.375	36.647	32.943	35.780	36.647
87.0	46.026	29.948	28.687	30.106	30.500
87.5	35.623	23.959	23.722	24.116	24.195
88.0	26.008	18.521	18.363	18.442	18.757
88.5	17.654	13.713	13.319	13.634	13.950
89.0	10.718	9.142	8.590	9.142	9.615
89.5	4.571	4.886	4.571	5.202	5.359
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-14-L60-930-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-14-L60-930-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-14-L60-930-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	657.02	N.A.	13.20
0-30	1404.35	N.A.	28.20
0-40	2310.76	N.A.	46.40
0-60	4042.47	N.A.	81.20
0-80	4911.94	N.A.	98.60
0-90	4981.27	N.A.	100.00
10-90	4812.1	N.A.	96.60
20-40	1653.74	N.A.	33.20
20-50	2581.19	N.A.	51.80
40-70	2307.18	N.A.	46.30
60-80	869.47	N.A.	17.50
70-80	294.00	N.A.	5.90
80-90	69.33	N.A.	1.40
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	4981.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	169.17
10-20	487.85
20-30	747.33
30-40	906.40
40-50	927.45
50-60	804.26
60-70	575.47
70-80	294.00
80-90	69.33
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-14-L60-930-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	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BAR-14-L60-930-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

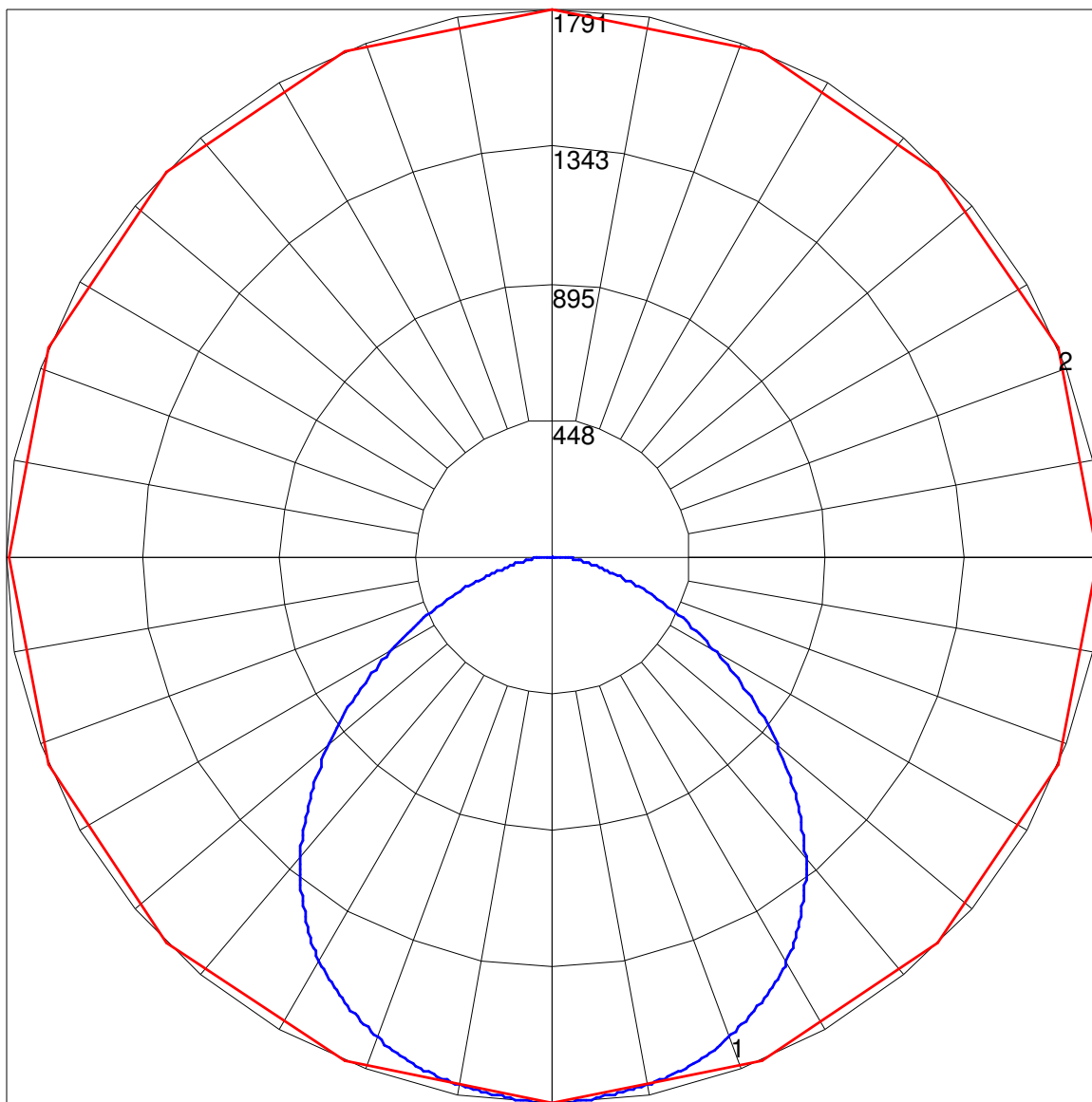
Reflectances

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	18.3	20.0	18.7	20.3	20.6	16.5	18.1	16.9	18.4	18.8
	3H	20.3	21.8	20.7	22.1	22.5	17.8	19.3	18.2	19.6	20.0
	4H	21.1	22.4	21.5	22.8	23.2	18.2	19.6	18.6	19.9	20.3
	6H	21.6	22.9	22.0	23.3	23.7	18.5	19.7	18.9	20.1	20.5
	8H	21.8	23.0	22.2	23.4	23.8	18.5	19.7	19.0	20.1	20.5
	12H	21.9	23.1	22.3	23.4	23.9	18.6	19.7	19.0	20.1	20.5
4H	2H	18.7	20.1	19.1	20.4	20.8	17.2	18.6	17.6	19.0	19.3
	3H	20.9	22.0	21.3	22.4	22.8	18.7	19.9	19.1	20.3	20.7
	4H	21.7	22.8	22.2	23.2	23.6	19.2	20.2	19.6	20.6	21.1
	6H	22.4	23.3	22.9	23.8	24.2	19.5	20.4	20.0	20.9	21.3
	8H	22.6	23.5	23.1	23.9	24.4	19.6	20.4	20.1	20.9	21.4
	12H	22.8	23.5	23.3	24.0	24.5	19.7	20.4	20.2	20.9	21.4
8H	4H	21.8	22.7	22.3	23.1	23.6	19.5	20.3	20.0	20.8	21.3
	6H	22.6	23.3	23.1	23.8	24.2	19.9	20.6	20.4	21.1	21.6
	8H	22.8	23.5	23.3	24.0	24.5	20.1	20.7	20.6	21.2	21.7
	12H	23.0	23.6	23.5	24.1	24.6	20.2	20.7	20.7	21.2	21.8
12H	4H	21.8	22.6	22.3	23.1	23.5	19.6	20.3	20.0	20.8	21.3
	6H	22.6	23.2	23.1	23.7	24.2	20.0	20.6	20.5	21.1	21.6
	8H	22.8	23.4	23.4	23.9	24.5	20.1	20.7	20.6	21.2	21.7

Maximum UGR = 24.6

POLAR GRAPH



Maximum Candela = 1790.592 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.)