



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-24-L60-940-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-L60-940-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	5044
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
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	2301	2461	2562
55	2263	2506	2591
65	2206	2502	2303
75	1981	1705	957
85	1337	698	580

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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	1612.089	1612.089	1612.089	1612.089	1612.089
0.5	1610.783	1612.089	1610.783	1613.395	1614.701
1.0	1610.130	1611.436	1610.130	1612.742	1614.701
1.5	1610.130	1611.436	1609.477	1612.742	1614.048
2.0	1609.477	1610.783	1609.477	1612.089	1613.395
2.5	1609.477	1610.130	1608.824	1611.436	1612.742
3.0	1608.824	1609.477	1607.519	1610.130	1612.089
3.5	1608.171	1608.824	1606.866	1609.477	1610.783
4.0	1608.171	1608.171	1605.560	1608.824	1610.130
4.5	1606.866	1606.866	1604.907	1608.171	1609.477
5.0	1606.213	1606.213	1603.601	1606.866	1608.171
5.5	1605.560	1604.907	1602.948	1606.213	1607.519
6.0	1604.254	1603.601	1601.642	1605.560	1606.866
6.5	1602.948	1601.642	1600.336	1604.254	1606.213
7.0	1601.642	1600.336	1599.683	1603.601	1605.560
7.5	1600.336	1599.030	1597.725	1602.295	1604.254
8.0	1598.378	1597.072	1596.419	1601.642	1603.601
8.5	1597.072	1595.113	1595.113	1600.336	1602.948
9.0	1595.113	1593.807	1593.807	1599.683	1602.295
9.5	1593.154	1591.848	1592.501	1598.378	1600.989
10.0	1590.542	1589.889	1590.542	1597.072	1600.336
10.5	1589.236	1587.278	1589.236	1596.419	1599.683
11.0	1586.625	1585.319	1587.278	1595.113	1598.378
11.5	1584.013	1582.707	1585.319	1593.807	1597.072
12.0	1581.401	1580.095	1583.360	1592.501	1596.419
12.5	1578.790	1577.484	1581.401	1591.195	1594.460
13.0	1575.525	1574.872	1579.442	1589.889	1593.807
13.5	1572.913	1572.260	1577.484	1587.931	1592.501
14.0	1569.648	1568.996	1574.872	1585.972	1591.195
14.5	1565.731	1566.384	1572.260	1584.013	1589.889
15.0	1563.119	1563.119	1569.648	1582.707	1587.931
15.5	1559.202	1559.202	1567.037	1580.095	1586.625
16.0	1555.937	1555.937	1564.425	1578.137	1584.013
16.5	1552.672	1552.672	1561.813	1575.525	1582.054
17.0	1548.755	1548.755	1558.549	1572.913	1580.095
17.5	1544.837	1545.490	1555.284	1570.301	1577.484
18.0	1540.919	1541.572	1552.672	1567.690	1574.872
18.5	1537.002	1538.308	1549.408	1564.425	1571.607
19.0	1532.431	1534.390	1546.143	1561.813	1568.343
19.5	1528.514	1529.820	1542.878	1558.549	1565.078
20.0	1523.943	1525.902	1539.614	1555.284	1561.813
20.5	1519.373	1521.984	1535.696	1552.019	1558.549
21.0	1514.802	1517.414	1531.778	1548.755	1554.631
21.5	1509.579	1512.843	1527.861	1544.837	1551.366
22.0	1505.008	1508.273	1523.943	1541.572	1548.102
22.5	1499.785	1503.702	1520.026	1537.655	1544.837
23.0	1495.214	1499.132	1516.108	1534.390	1541.572
23.5	1489.338	1493.908	1511.538	1530.473	1537.655
24.0	1483.461	1488.685	1506.967	1526.555	1534.390
24.5	1478.238	1483.461	1502.397	1523.290	1531.126
25.0	1472.362	1478.238	1498.479	1519.373	1527.208
25.5	1466.485	1472.362	1493.255	1515.455	1523.943
26.0	1460.609	1466.485	1488.685	1511.538	1520.679
26.5	1454.080	1460.609	1484.114	1507.620	1516.761

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**CANDELA TABULATION - (Cont.)**

27.0	1447.550	1454.732	1478.891	1503.702	1512.843
27.5	1441.021	1448.203	1474.320	1499.132	1508.926
28.0	1433.839	1442.327	1469.097	1494.561	1505.008
28.5	1427.309	1435.797	1463.874	1489.991	1500.438
29.0	1420.127	1429.268	1457.997	1484.767	1495.867
29.5	1412.945	1422.739	1452.774	1479.544	1490.644
30.0	1405.763	1416.209	1446.897	1474.320	1485.420
30.5	1397.927	1409.027	1441.021	1469.097	1480.197
31.0	1390.745	1402.498	1434.492	1463.221	1474.320
31.5	1383.563	1395.316	1428.615	1457.344	1468.444
32.0	1375.728	1388.786	1422.086	1451.468	1462.568
32.5	1367.893	1381.604	1415.557	1444.938	1456.691
33.0	1360.710	1373.769	1409.027	1439.062	1450.162
33.5	1352.222	1366.587	1402.498	1432.533	1444.286
34.0	1344.387	1358.751	1395.316	1426.003	1437.756
34.5	1335.899	1351.569	1388.133	1419.474	1431.227
35.0	1327.411	1343.734	1381.604	1412.945	1424.698
35.5	1319.576	1335.899	1374.422	1406.416	1418.168
36.0	1310.435	1328.064	1367.240	1399.233	1411.639
36.5	1301.293	1320.228	1359.404	1392.704	1404.457
37.0	1292.152	1311.740	1352.222	1385.522	1397.274
37.5	1283.664	1303.905	1344.387	1378.339	1390.092
38.0	1274.523	1294.764	1337.205	1370.504	1382.910
38.5	1265.382	1286.276	1329.370	1363.322	1375.728
39.0	1256.241	1277.788	1320.881	1355.487	1367.893
39.5	1247.100	1269.300	1313.046	1347.652	1360.057
40.0	1237.306	1260.812	1305.211	1339.816	1352.222
40.5	1228.165	1251.018	1296.723	1331.328	1344.387
41.0	1218.371	1241.877	1288.235	1322.840	1335.899
41.5	1208.577	1232.736	1279.094	1315.005	1327.411
42.0	1198.783	1223.595	1270.606	1305.864	1318.923
42.5	1188.989	1213.801	1261.465	1297.376	1309.782
43.0	1178.542	1204.007	1252.324	1288.888	1301.293
43.5	1168.095	1194.213	1243.183	1279.747	1292.152
44.0	1157.648	1184.419	1234.041	1270.606	1283.011
44.5	1147.202	1174.625	1224.247	1260.812	1273.870
45.0	1136.102	1164.178	1215.106	1251.671	1264.729
45.5	1125.655	1154.384	1205.965	1241.877	1254.935
46.0	1114.555	1143.937	1196.171	1232.083	1244.488
46.5	1103.455	1133.490	1186.377	1222.289	1234.694
47.0	1091.702	1123.043	1175.931	1211.842	1224.247
47.5	1080.602	1112.596	1166.137	1202.048	1214.453
48.0	1069.503	1102.149	1155.690	1191.601	1203.354
48.5	1057.750	1092.355	1145.896	1181.807	1192.907
49.0	1046.650	1081.255	1135.449	1171.360	1181.807
49.5	1035.550	1070.808	1125.002	1160.260	1170.707
50.0	1024.450	1060.362	1114.555	1149.160	1160.260
50.5	1012.698	1049.915	1104.108	1138.060	1149.160
51.0	1001.598	1038.815	1093.008	1126.961	1137.408
51.5	989.845	1027.715	1082.561	1115.861	1125.655
52.0	978.092	1016.615	1071.461	1104.108	1113.902
52.5	966.339	1005.515	1060.362	1092.355	1102.149
53.0	954.587	994.415	1049.262	1080.602	1089.743
53.5	942.834	983.316	1038.162	1068.850	1076.685
54.0	931.081	972.216	1026.409	1056.444	1063.626
54.5	918.675	961.116	1015.309	1044.038	1050.568

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**CANDELA TABULATION - (Cont.)**

55.0	906.270	950.016	1003.556	1030.980	1037.509
55.5	894.517	938.263	991.151	1017.921	1023.797
56.0	882.111	926.510	979.398	1004.209	1010.086
56.5	869.705	914.758	966.992	991.151	995.721
57.0	857.300	903.005	954.587	976.786	980.704
57.5	844.241	891.252	942.181	963.075	965.033
58.0	831.835	878.846	929.775	948.710	950.016
58.5	819.430	867.094	916.717	934.346	933.693
59.0	807.024	855.341	903.658	919.328	918.022
59.5	794.618	843.588	891.252	903.658	901.699
60.0	781.560	831.835	878.194	888.640	884.070
60.5	769.154	820.083	865.135	872.970	867.094
61.0	756.095	807.677	852.729	857.300	848.812
61.5	743.690	795.924	839.671	840.976	830.529
62.0	730.631	783.518	825.959	824.653	810.942
62.5	717.572	771.766	811.594	807.024	791.354
63.0	704.514	759.360	797.883	789.395	771.113
63.5	691.455	746.301	783.518	771.113	749.566
64.0	678.396	733.896	769.154	751.525	727.366
64.5	664.685	721.490	753.484	731.937	704.514
65.0	651.038	708.431	738.466	710.390	679.702
65.5	637.262	695.373	722.796	687.537	653.585
66.0	623.028	681.661	705.819	664.032	626.096
66.5	608.663	667.949	688.843	640.200	598.282
67.0	594.429	653.585	671.867	614.278	569.161
67.5	579.804	639.808	653.585	588.226	539.844
68.0	564.982	625.639	634.389	561.064	512.095
68.5	550.160	611.144	614.931	533.837	484.214
69.0	535.012	596.453	594.821	506.741	454.310
69.5	520.909	581.828	574.254	479.709	424.014
70.0	507.851	567.071	553.164	450.719	394.828
70.5	495.249	551.923	532.662	421.729	366.360
71.0	480.036	537.102	510.919	393.065	339.198
71.5	464.496	524.174	488.720	364.793	313.538
72.0	449.152	508.895	465.932	337.631	288.596
72.5	433.808	495.379	440.141	311.318	264.699
73.0	418.334	480.427	414.547	286.833	243.152
73.5	403.447	464.692	387.711	264.176	223.433
74.0	388.429	448.825	361.333	242.564	205.347
74.5	373.477	432.437	334.628	222.519	188.632
75.0	358.068	415.918	308.119	203.976	173.027
75.5	343.246	398.941	282.589	186.804	159.120
76.0	328.947	381.573	257.843	171.199	146.061
76.5	313.930	364.401	234.598	157.030	134.373
77.0	299.435	346.576	213.182	144.037	123.731
77.5	284.417	328.686	193.464	132.415	114.002
78.0	270.053	310.273	175.247	122.033	105.579
78.5	255.623	290.816	158.793	112.304	97.744
79.0	241.193	271.359	144.298	103.424	90.300
79.5	226.959	251.575	130.978	95.393	83.771
80.0	212.986	231.399	118.964	88.015	77.960
80.5	198.948	210.766	108.126	81.421	72.671
81.0	184.649	190.526	98.136	75.283	67.840
81.5	170.611	170.285	88.995	69.733	63.139
82.0	156.965	150.893	80.768	64.510	58.372
82.5	143.449	133.133	73.324	59.417	53.867

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

83.0	129.672	116.679	66.468	54.193	49.492
83.5	116.418	102.380	60.266	49.427	45.509
84.0	103.620	89.648	54.193	44.922	41.788
84.5	92.063	78.352	48.252	40.612	38.327
85.0	81.355	68.231	42.506	36.760	35.324
85.5	71.561	58.960	37.152	33.365	32.973
86.0	61.506	50.406	32.190	30.557	30.818
86.5	51.647	42.441	27.684	27.684	28.011
87.0	41.853	34.671	23.832	24.224	23.897
87.5	32.712	27.358	20.110	19.653	19.327
88.0	24.289	20.633	15.736	15.801	16.323
88.5	16.780	14.430	11.296	12.536	12.732
89.0	10.447	9.010	7.574	7.705	7.639
89.5	4.962	4.636	3.591	3.591	3.330
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-L60-940-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-L60-940-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-L60-940-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	597.35	N.A.	11.80
0-30	1288.93	N.A.	25.60
0-40	2151.87	N.A.	42.70
0-60	3966.05	N.A.	78.60
0-80	4979.92	N.A.	98.70
0-90	5044.02	N.A.	100.00
10-90	4891.11	N.A.	97.00
20-40	1554.52	N.A.	30.80
20-50	2486.18	N.A.	49.30
40-70	2503.46	N.A.	49.60
60-80	1013.87	N.A.	20.10
70-80	324.59	N.A.	6.40
80-90	64.09	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	5044.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	152.90
10-20	444.45
20-30	691.58
30-40	862.94
40-50	931.66
50-60	882.51
60-70	689.28
70-80	324.59
80-90	64.09
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-L60-940-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	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-L60-940-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

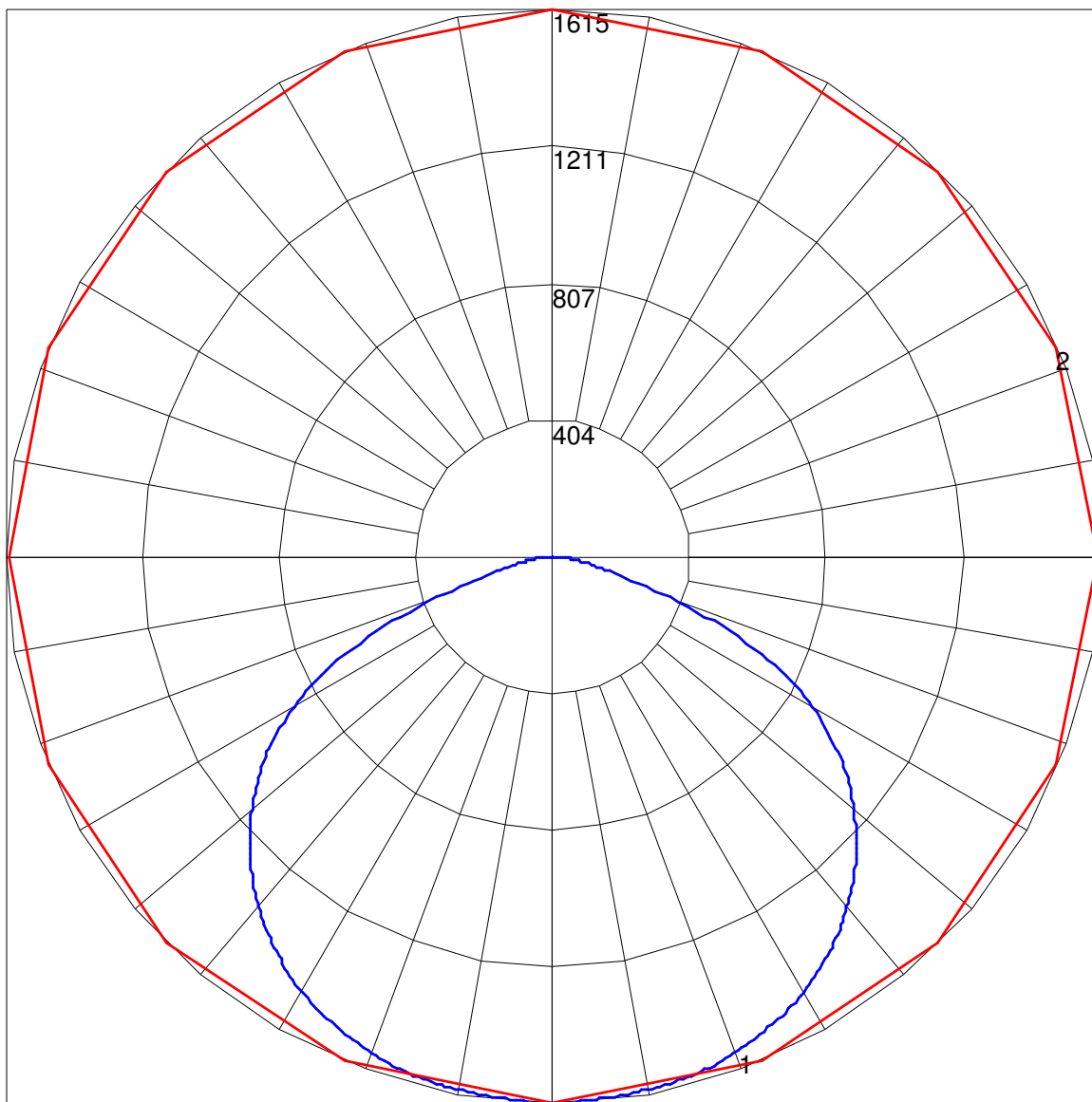
Reflectances

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	15.3	17.0	15.7	17.3	17.6	15.9	17.6	16.3	17.9	18.2
	3H	17.3	18.8	17.7	19.1	19.5	17.3	18.8	17.7	19.1	19.5
	4H	18.0	19.4	18.4	19.8	20.2	17.4	18.9	17.8	19.2	19.6
	6H	18.5	19.9	19.0	20.2	20.6	17.5	18.8	17.9	19.2	19.6
	8H	18.7	19.9	19.1	20.3	20.7	17.5	18.8	17.9	19.2	19.6
	12H	18.7	20.0	19.2	20.3	20.8	17.5	18.7	17.9	19.1	19.5
4H	2H	16.1	17.5	16.5	17.9	18.3	16.6	18.0	17.0	18.3	18.7
	3H	18.3	19.5	18.7	19.9	20.3	18.1	19.3	18.5	19.7	20.1
	4H	19.2	20.3	19.6	20.7	21.1	18.4	19.4	18.8	19.8	20.3
	6H	19.9	20.8	20.3	21.2	21.7	18.5	19.4	18.9	19.8	20.3
	8H	20.0	20.9	20.5	21.3	21.8	18.5	19.3	18.9	19.8	20.3
	12H	20.1	20.9	20.6	21.4	21.9	18.5	19.3	19.0	19.7	20.2
8H	4H	19.4	20.3	19.9	20.7	21.2	18.6	19.5	19.1	19.9	20.4
	6H	20.1	20.9	20.6	21.4	21.8	18.8	19.5	19.2	20.0	20.4
	8H	20.4	21.0	20.9	21.5	22.0	18.8	19.4	19.3	19.9	20.4
	12H	20.5	21.1	21.0	21.6	22.1	18.8	19.4	19.3	19.9	20.4
12H	4H	19.4	20.2	19.9	20.7	21.1	18.7	19.4	19.1	19.9	20.4
	6H	20.2	20.8	20.7	21.3	21.8	18.8	19.5	19.3	19.9	20.5
	8H	20.4	21.0	20.9	21.5	22.0	18.9	19.4	19.4	19.9	20.5

Maximum UGR = 22.1

POLAR GRAPH



Maximum Candela = 1614.701 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.)