



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-24-L60-950-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-L60-950-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	5279
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
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	2408	2575	2681
55	2368	2622	2711
65	2309	2619	2410
75	2073	1784	1002
85	1399	731	607

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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	1687.070	1687.070	1687.070	1687.070	1687.070
0.5	1685.703	1687.070	1685.703	1688.437	1689.803
1.0	1685.020	1686.387	1685.020	1687.753	1689.803
1.5	1685.020	1686.387	1684.337	1687.753	1689.120
2.0	1684.337	1685.703	1684.337	1687.070	1688.437
2.5	1684.337	1685.020	1683.654	1686.387	1687.753
3.0	1683.654	1684.337	1682.287	1685.020	1687.070
3.5	1682.970	1683.654	1681.604	1684.337	1685.703
4.0	1682.970	1682.970	1680.237	1683.654	1685.020
4.5	1681.604	1681.604	1679.554	1682.970	1684.337
5.0	1680.920	1680.920	1678.187	1681.604	1682.970
5.5	1680.237	1679.554	1677.504	1680.920	1682.287
6.0	1678.870	1678.187	1676.137	1680.237	1681.604
6.5	1677.504	1676.137	1674.771	1678.870	1680.920
7.0	1676.137	1674.771	1674.087	1678.187	1680.237
7.5	1674.771	1673.404	1672.037	1676.821	1678.870
8.0	1672.721	1671.354	1670.671	1676.137	1678.187
8.5	1671.354	1669.304	1669.304	1674.771	1677.504
9.0	1669.304	1667.938	1667.938	1674.087	1676.821
9.5	1667.254	1665.888	1666.571	1672.721	1675.454
10.0	1664.521	1663.838	1664.521	1671.354	1674.771
10.5	1663.155	1661.105	1663.155	1670.671	1674.087
11.0	1660.421	1659.055	1661.105	1669.304	1672.721
11.5	1657.688	1656.322	1659.055	1667.938	1671.354
12.0	1654.955	1653.588	1657.005	1666.571	1670.671
12.5	1652.222	1650.855	1654.955	1665.204	1668.621
13.0	1648.805	1648.122	1652.905	1663.838	1667.938
13.5	1646.072	1645.389	1650.855	1661.788	1666.571
14.0	1642.656	1641.972	1648.122	1659.738	1665.204
14.5	1638.556	1639.239	1645.389	1657.688	1663.838
15.0	1635.823	1635.823	1642.656	1656.322	1661.788
15.5	1631.723	1631.723	1639.922	1653.588	1660.421
16.0	1628.306	1628.306	1637.189	1651.538	1657.688
16.5	1624.890	1624.890	1634.456	1648.805	1655.638
17.0	1620.790	1620.790	1631.039	1646.072	1653.588
17.5	1616.690	1617.373	1627.623	1643.339	1650.855
18.0	1612.590	1613.274	1624.890	1640.606	1648.122
18.5	1608.490	1609.857	1621.473	1637.189	1644.705
19.0	1603.707	1605.757	1618.057	1634.456	1641.289
19.5	1599.608	1600.974	1614.640	1631.039	1637.872
20.0	1594.824	1596.874	1611.224	1627.623	1634.456
20.5	1590.041	1592.775	1607.124	1624.206	1631.039
21.0	1585.258	1587.991	1603.024	1620.790	1626.940
21.5	1579.792	1583.208	1598.924	1616.690	1623.523
22.0	1575.009	1578.425	1594.824	1613.274	1620.107
22.5	1569.542	1573.642	1590.725	1609.174	1616.690
23.0	1564.759	1568.859	1586.625	1605.757	1613.274
23.5	1558.610	1563.393	1581.842	1601.657	1609.174
24.0	1552.460	1557.926	1577.059	1597.558	1605.757
24.5	1546.993	1552.460	1572.276	1594.141	1602.341
25.0	1540.844	1546.993	1568.176	1590.041	1598.241
25.5	1534.694	1540.844	1562.709	1585.942	1594.824
26.0	1528.544	1534.694	1557.926	1581.842	1591.408
26.5	1521.711	1528.544	1553.143	1577.742	1587.308

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CANDELA TABULATION - (Cont.)

27.0	1514.878	1522.395	1547.677	1573.642	1583.208
27.5	1508.045	1515.562	1542.894	1568.859	1579.109
28.0	1500.529	1509.412	1537.427	1564.076	1575.009
28.5	1493.696	1502.579	1531.961	1559.293	1570.226
29.0	1486.180	1495.746	1525.811	1553.826	1565.443
29.5	1478.663	1488.913	1520.345	1548.360	1559.976
30.0	1471.147	1482.080	1514.195	1542.894	1554.510
30.5	1462.947	1474.563	1508.045	1537.427	1549.043
31.0	1455.431	1467.730	1501.212	1531.277	1542.894
31.5	1447.915	1460.214	1495.063	1525.128	1536.744
32.0	1439.715	1453.381	1488.230	1518.978	1530.594
32.5	1431.516	1445.865	1481.397	1512.145	1524.444
33.0	1423.999	1437.665	1474.563	1505.995	1517.611
33.5	1415.116	1430.149	1467.730	1499.162	1511.462
34.0	1406.917	1421.949	1460.214	1492.329	1504.629
34.5	1398.034	1414.433	1452.698	1485.496	1497.796
35.0	1389.151	1406.233	1445.865	1478.663	1490.963
35.5	1380.951	1398.034	1438.349	1471.830	1484.130
36.0	1371.385	1389.834	1430.832	1464.314	1477.297
36.5	1361.819	1381.635	1422.633	1457.481	1469.780
37.0	1352.253	1372.752	1415.116	1449.965	1462.264
37.5	1343.370	1364.552	1406.917	1442.448	1454.748
38.0	1333.803	1354.986	1399.400	1434.249	1447.231
38.5	1324.237	1346.103	1391.201	1426.732	1439.715
39.0	1314.671	1337.220	1382.318	1418.533	1431.516
39.5	1305.105	1328.337	1374.118	1410.333	1423.316
40.0	1294.855	1319.454	1365.919	1402.134	1415.116
40.5	1285.289	1309.205	1357.036	1393.251	1406.917
41.0	1275.040	1299.638	1348.153	1384.368	1398.034
41.5	1264.790	1290.072	1338.587	1376.168	1389.151
42.0	1254.541	1280.506	1329.704	1366.602	1380.268
42.5	1244.291	1270.257	1320.137	1357.719	1370.702
43.0	1233.358	1260.007	1310.571	1348.836	1361.819
43.5	1222.425	1249.757	1301.005	1339.270	1352.253
44.0	1211.493	1239.508	1291.439	1329.704	1342.686
44.5	1200.560	1229.258	1281.189	1319.454	1333.120
45.0	1188.944	1218.326	1271.623	1309.888	1323.554
45.5	1178.011	1208.076	1262.057	1299.638	1313.304
46.0	1166.395	1197.143	1251.807	1289.389	1302.372
46.5	1154.779	1186.210	1241.558	1279.139	1292.122
47.0	1142.479	1175.278	1230.625	1268.207	1281.189
47.5	1130.863	1164.345	1220.376	1257.957	1270.940
48.0	1119.247	1153.412	1209.443	1247.024	1259.324
48.5	1106.948	1143.163	1199.193	1236.775	1248.391
49.0	1095.331	1131.546	1188.260	1225.842	1236.775
49.5	1083.715	1120.614	1177.328	1214.226	1225.159
50.0	1072.099	1109.681	1166.395	1202.610	1214.226
50.5	1059.800	1098.748	1155.462	1190.994	1202.610
51.0	1048.184	1087.132	1143.846	1179.377	1190.310
51.5	1035.884	1075.516	1132.913	1167.761	1178.011
52.0	1023.585	1063.900	1121.297	1155.462	1165.711
52.5	1011.285	1052.283	1109.681	1143.163	1153.412
53.0	998.986	1040.667	1098.065	1130.863	1140.429
53.5	986.687	1029.051	1086.449	1118.564	1126.763
54.0	974.387	1017.435	1074.149	1105.581	1113.097
54.5	961.404	1005.819	1062.533	1092.598	1099.431

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55.0	948.422	994.203	1050.234	1078.932	1085.765
55.5	936.122	981.903	1037.251	1065.266	1071.416
56.0	923.140	969.604	1024.951	1050.917	1057.067
56.5	910.157	957.305	1011.969	1037.251	1042.034
57.0	897.174	945.005	998.986	1022.218	1026.318
57.5	883.508	932.706	986.003	1007.869	1009.919
58.0	870.525	919.723	973.021	992.836	994.203
58.5	857.543	907.424	959.355	977.804	977.120
59.0	844.560	895.124	945.689	962.088	960.721
59.5	831.577	882.825	932.706	945.689	943.639
60.0	817.911	870.525	919.040	929.973	925.190
60.5	804.929	858.226	905.374	913.573	907.424
61.0	791.263	845.243	892.391	897.174	888.291
61.5	778.280	832.944	878.725	880.092	869.159
62.0	764.614	819.961	864.376	863.009	848.660
62.5	750.948	807.662	849.343	844.560	828.161
63.0	737.282	794.679	834.994	826.111	806.978
63.5	723.616	781.013	819.961	806.978	784.430
64.0	709.950	768.030	804.929	786.479	761.197
64.5	695.600	755.048	788.529	765.980	737.282
65.0	681.319	741.382	772.813	743.431	711.316
65.5	666.902	727.716	756.414	719.516	683.984
66.0	652.006	713.366	738.648	694.917	655.217
66.5	636.973	699.017	720.883	669.977	626.109
67.0	622.077	683.984	703.117	642.850	595.633
67.5	606.771	669.567	683.984	615.586	564.953
68.0	591.260	654.739	663.895	587.161	535.913
68.5	575.749	639.570	643.533	558.667	506.736
69.0	559.897	624.195	622.487	530.310	475.441
69.5	545.138	608.889	600.963	502.021	443.736
70.0	531.471	593.447	578.893	471.683	413.192
70.5	518.284	577.594	557.437	441.344	383.400
71.0	502.363	562.083	534.683	411.347	354.975
71.5	486.100	548.554	511.451	381.760	328.121
72.0	470.043	532.565	487.604	353.335	302.019
72.5	453.985	518.420	460.613	325.798	277.010
73.0	437.791	502.773	433.828	300.174	254.461
73.5	422.212	486.305	405.744	276.464	233.826
74.0	406.496	469.701	378.139	253.846	214.898
74.5	390.848	452.550	350.192	232.869	197.406
75.0	374.722	435.263	322.450	213.463	181.075
75.5	359.211	417.497	295.733	195.492	166.520
76.0	344.247	399.321	269.836	179.162	152.854
76.5	328.531	381.350	245.510	164.334	140.623
77.0	313.362	362.696	223.098	150.736	129.486
77.5	297.646	343.974	202.462	138.573	119.304
78.0	282.613	324.705	183.398	127.709	110.490
78.5	267.512	304.342	166.179	117.528	102.290
79.0	252.411	283.980	151.010	108.235	94.501
79.5	237.515	263.276	137.070	99.830	87.668
80.0	222.893	242.162	124.497	92.109	81.586
80.5	208.202	220.570	113.155	85.208	76.051
81.0	193.238	199.387	102.700	78.785	70.995
81.5	178.547	178.205	93.134	72.977	66.075
82.0	164.266	157.911	84.524	67.510	61.087
82.5	150.121	139.325	76.735	62.180	56.372

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CANDELA TABULATION - (Cont.)

83.0	135.704	122.106	69.560	56.714	51.794
83.5	121.833	107.142	63.069	51.726	47.626
84.0	108.440	93.817	56.714	47.011	43.731
84.5	96.345	81.996	50.496	42.501	40.110
85.0	85.139	71.405	44.483	38.470	36.967
85.5	74.890	61.702	38.880	34.917	34.507
86.0	64.367	52.751	33.687	31.978	32.252
86.5	54.049	44.415	28.972	28.972	29.314
87.0	43.800	36.283	24.940	25.350	25.009
87.5	34.233	28.630	21.046	20.567	20.226
88.0	25.419	21.592	16.468	16.536	17.083
88.5	17.561	15.101	11.821	13.119	13.324
89.0	10.933	9.430	7.926	8.063	7.995
89.5	5.193	4.851	3.758	3.758	3.485
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-L60-950-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-L60-950-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-L60-950-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	625.14	N.A.	11.80
0-30	1348.88	N.A.	25.60
0-40	2251.96	N.A.	42.70
0-60	4150.52	N.A.	78.60
0-80	5211.55	N.A.	98.70
0-90	5278.62	N.A.	100.00
10-90	5118.61	N.A.	97.00
20-40	1626.82	N.A.	30.80
20-50	2601.82	N.A.	49.30
40-70	2619.9	N.A.	49.60
60-80	1061.03	N.A.	20.10
70-80	339.69	N.A.	6.40
80-90	67.07	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	5278.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	160.01
10-20	465.12
20-30	723.74
30-40	903.08
40-50	975.00
50-60	923.56
60-70	721.34
70-80	339.69
80-90	67.07
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-L60-950-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	88	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-L60-950-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

X=2H	Y=2H	15.5	17.2	15.9	17.5	17.8	16.1	17.8	16.5	18.1	18.4
	3H	17.5	19.0	17.9	19.3	19.7	17.5	19.0	17.9	19.3	19.7
	4H	18.2	19.6	18.6	20.0	20.4	17.6	19.1	18.0	19.4	19.8
	6H	18.7	20.1	19.2	20.4	20.8	17.7	19.0	18.1	19.4	19.8
	8H	18.9	20.1	19.3	20.5	20.9	17.7	19.0	18.1	19.4	19.8
	12H	19.0	20.2	19.4	20.5	21.0	17.7	18.9	18.1	19.3	19.7

UGR Viewed Endwise

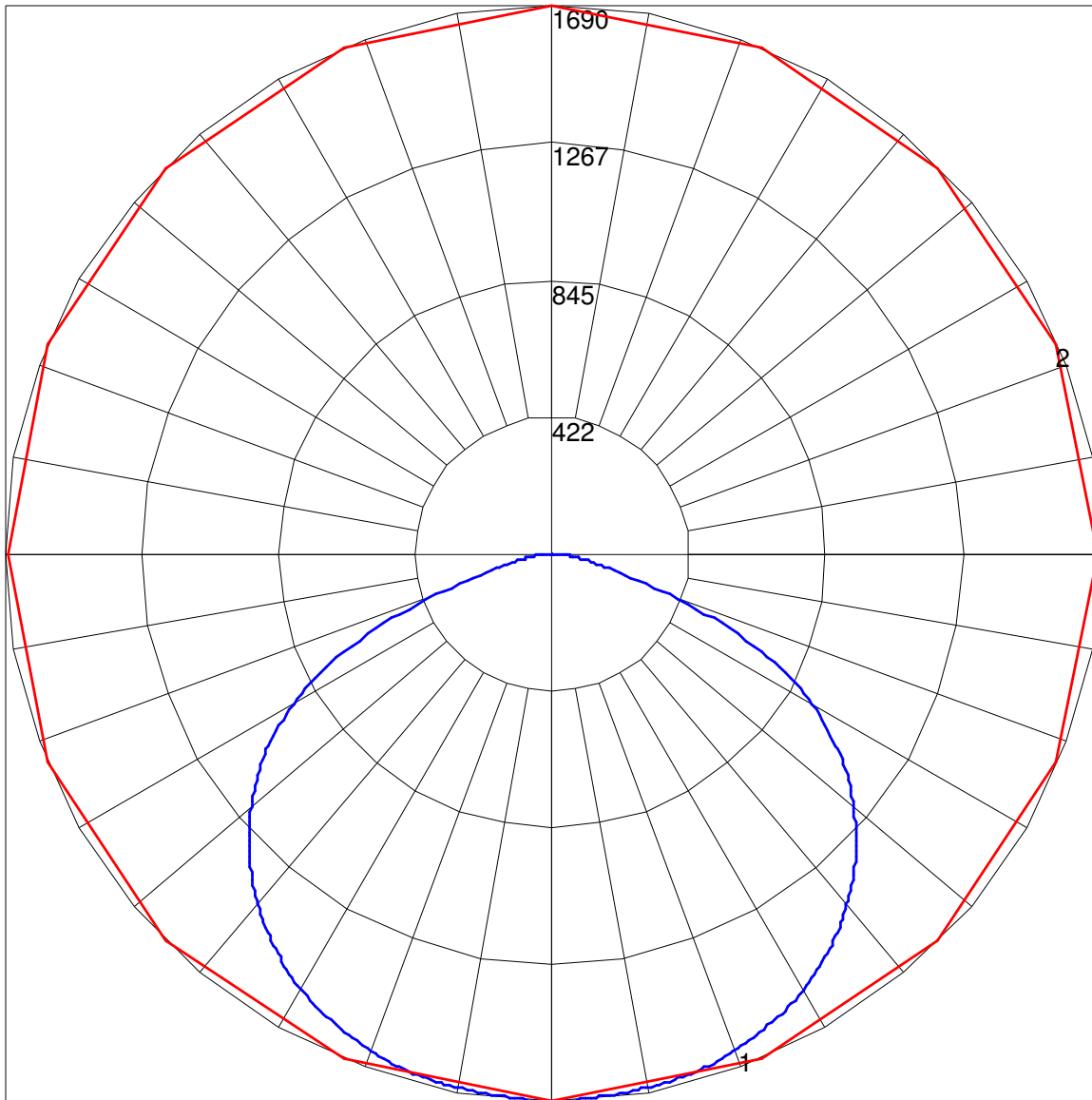
4H	2H	16.3	17.7	16.7	18.1	18.5	16.8	18.2	17.2	18.5	18.9
	3H	18.5	19.7	18.9	20.1	20.5	18.3	19.5	18.7	19.9	20.3
	4H	19.4	20.5	19.8	20.9	21.3	18.6	19.6	19.0	20.0	20.5
	6H	20.1	21.0	20.5	21.4	21.9	18.7	19.6	19.1	20.0	20.5
	8H	20.2	21.1	20.7	21.5	22.0	18.7	19.5	19.1	20.0	20.5
	12H	20.3	21.1	20.8	21.6	22.1	18.7	19.5	19.2	19.9	20.4

8H	4H	19.6	20.5	20.1	20.9	21.4	18.8	19.7	19.3	20.1	20.6
	6H	20.3	21.1	20.8	21.6	22.0	19.0	19.7	19.4	20.2	20.6
	8H	20.6	21.2	21.1	21.7	22.2	19.0	19.6	19.5	20.1	20.6
	12H	20.7	21.3	21.2	21.8	22.3	19.0	19.6	19.5	20.1	20.6

12H	4H	19.6	20.4	20.1	20.9	21.3	18.9	19.6	19.3	20.1	20.6
	6H	20.4	21.0	20.9	21.5	22.0	19.0	19.7	19.5	20.1	20.7
	8H	20.6	21.2	21.1	21.7	22.2	19.1	19.6	19.6	20.1	20.7

Maximum UGR = 22.3

POLAR GRAPH



Maximum Candela = 1689.803 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.)