



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-24-L40-840-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-L40-840-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	4180
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	31.2
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	1907	2039	2123
55	1875	2076	2147
65	1828	2074	1909
75	1642	1413	793
85	1108	579	481

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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	1335.893	1335.893	1335.893	1335.893	1335.893
0.5	1334.811	1335.893	1334.811	1336.976	1338.058
1.0	1334.270	1335.352	1334.270	1336.434	1338.058
1.5	1334.270	1335.352	1333.729	1336.434	1337.517
2.0	1333.729	1334.811	1333.729	1335.893	1336.976
2.5	1333.729	1334.270	1333.188	1335.352	1336.434
3.0	1333.188	1333.729	1332.106	1334.270	1335.893
3.5	1332.647	1333.188	1331.565	1333.729	1334.811
4.0	1332.647	1332.647	1330.483	1333.188	1334.270
4.5	1331.565	1331.565	1329.942	1332.647	1333.729
5.0	1331.024	1331.024	1328.860	1331.565	1332.647
5.5	1330.483	1329.942	1328.318	1331.024	1332.106
6.0	1329.401	1328.860	1327.236	1330.483	1331.565
6.5	1328.318	1327.236	1326.154	1329.401	1331.024
7.0	1327.236	1326.154	1325.613	1328.860	1330.483
7.5	1326.154	1325.072	1323.990	1327.777	1329.401
8.0	1324.531	1323.449	1322.908	1327.236	1328.860
8.5	1323.449	1321.826	1321.826	1326.154	1328.318
9.0	1321.826	1320.744	1320.744	1325.613	1327.777
9.5	1320.202	1319.120	1319.661	1324.531	1326.695
10.0	1318.038	1317.497	1318.038	1323.449	1326.154
10.5	1316.956	1315.333	1316.956	1322.908	1325.613
11.0	1314.792	1313.710	1315.333	1321.826	1324.531
11.5	1312.628	1311.545	1313.710	1320.744	1323.449
12.0	1310.463	1309.381	1312.086	1319.661	1322.908
12.5	1308.299	1307.217	1310.463	1318.579	1321.285
13.0	1305.594	1305.053	1308.840	1317.497	1320.744
13.5	1303.429	1302.888	1307.217	1315.874	1319.661
14.0	1300.724	1300.183	1305.053	1314.251	1318.579
14.5	1297.478	1298.019	1302.888	1312.628	1317.497
15.0	1295.313	1295.313	1300.724	1311.545	1315.874
15.5	1292.067	1292.067	1298.560	1309.381	1314.792
16.0	1289.362	1289.362	1296.396	1307.758	1312.628
16.5	1286.656	1286.656	1294.231	1305.594	1311.004
17.0	1283.410	1283.410	1291.526	1303.429	1309.381
17.5	1280.164	1280.705	1288.821	1301.265	1307.217
18.0	1276.917	1277.458	1286.656	1299.101	1305.053
18.5	1273.671	1274.753	1283.951	1296.396	1302.347
19.0	1269.883	1271.506	1281.246	1294.231	1299.642
19.5	1266.637	1267.719	1278.540	1291.526	1296.937
20.0	1262.849	1264.473	1275.835	1288.821	1294.231
20.5	1259.062	1261.226	1272.589	1286.115	1291.526
21.0	1255.274	1257.439	1269.342	1283.410	1288.280
21.5	1250.946	1253.651	1266.096	1280.164	1285.574
22.0	1247.158	1249.864	1262.849	1277.458	1282.869
22.5	1242.830	1246.076	1259.603	1274.212	1280.164
23.0	1239.042	1242.289	1256.357	1271.506	1277.458
23.5	1234.173	1237.960	1252.569	1268.260	1274.212
24.0	1229.303	1233.632	1248.782	1265.014	1271.506
24.5	1224.975	1229.303	1244.994	1262.308	1268.801
25.0	1220.105	1224.975	1241.748	1259.062	1265.555
25.5	1215.236	1220.105	1237.419	1255.816	1262.849
26.0	1210.366	1215.236	1233.632	1252.569	1260.144
26.5	1204.955	1210.366	1229.844	1249.323	1256.898

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**CANDELA TABULATION - (Cont.)**

27.0	1199.545	1205.496	1225.516	1246.076	1253.651
27.5	1194.134	1200.086	1221.728	1242.289	1250.405
28.0	1188.182	1195.216	1217.400	1238.501	1247.158
28.5	1182.772	1189.805	1213.071	1234.714	1243.371
29.0	1176.820	1184.395	1208.202	1230.385	1239.584
29.5	1170.868	1178.984	1203.873	1226.057	1235.255
30.0	1164.916	1173.573	1199.004	1221.728	1230.926
30.5	1158.424	1167.622	1194.134	1217.400	1226.598
31.0	1152.472	1162.211	1188.723	1212.530	1221.728
31.5	1146.520	1156.259	1183.854	1207.661	1216.859
32.0	1140.027	1150.849	1178.443	1202.791	1211.989
32.5	1133.534	1144.897	1173.032	1197.380	1207.120
33.0	1127.583	1138.404	1167.622	1192.511	1201.709
33.5	1120.549	1132.452	1162.211	1187.100	1196.839
34.0	1114.056	1125.960	1156.259	1181.689	1191.429
34.5	1107.022	1120.008	1150.308	1176.279	1186.018
35.0	1099.988	1113.515	1144.897	1170.868	1180.607
35.5	1093.496	1107.022	1138.945	1165.457	1175.197
36.0	1085.921	1100.529	1132.993	1159.506	1169.786
36.5	1078.346	1094.037	1126.501	1154.095	1163.834
37.0	1070.771	1087.003	1120.549	1148.143	1157.882
37.5	1063.737	1080.510	1114.056	1142.192	1151.931
38.0	1056.162	1072.935	1108.104	1135.699	1145.979
38.5	1048.587	1065.901	1101.612	1129.747	1140.027
39.0	1041.012	1058.867	1094.578	1123.254	1133.534
39.5	1033.437	1051.833	1088.085	1116.761	1127.042
40.0	1025.321	1044.800	1081.592	1110.269	1120.549
40.5	1017.746	1036.684	1074.558	1103.235	1114.056
41.0	1009.630	1029.109	1067.524	1096.201	1107.022
41.5	1001.514	1021.534	1059.949	1089.708	1099.988
42.0	993.398	1013.959	1052.916	1082.133	1092.955
42.5	985.282	1005.843	1045.341	1075.099	1085.380
43.0	976.625	997.727	1037.766	1068.065	1078.346
43.5	967.968	989.611	1030.191	1060.491	1070.771
44.0	959.311	981.495	1022.616	1052.916	1063.196
44.5	950.654	973.379	1014.500	1044.800	1055.621
45.0	941.456	964.722	1006.925	1037.225	1048.046
45.5	932.799	956.606	999.350	1029.109	1039.930
46.0	923.601	947.949	991.234	1020.993	1031.273
46.5	914.403	939.292	983.118	1012.877	1023.157
47.0	904.663	930.635	974.461	1004.220	1014.500
47.5	895.465	921.977	966.345	996.104	1006.384
48.0	886.267	913.320	957.688	987.447	997.186
48.5	876.528	905.204	949.572	979.331	988.529
49.0	867.330	896.006	940.915	970.673	979.331
49.5	858.132	887.349	932.258	961.475	970.132
50.0	848.933	878.692	923.601	952.277	961.475
50.5	839.194	870.035	914.944	943.079	952.277
51.0	829.996	860.837	905.745	933.881	942.538
51.5	820.257	851.639	897.088	924.683	932.799
52.0	810.518	842.441	887.890	914.944	923.060
52.5	800.779	833.243	878.692	905.204	913.320
53.0	791.039	824.044	869.494	895.465	903.040
53.5	781.300	814.846	860.296	885.726	892.219
54.0	771.561	805.648	850.557	875.446	881.397
54.5	761.281	796.450	841.359	865.165	870.576

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**PHOTOMETRIC FILENAME : BAR-24-L40-840-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

55.0	751.000	787.252	831.619	854.344	859.755
55.5	741.261	777.513	821.339	843.523	848.392
56.0	730.981	767.773	811.600	832.160	837.030
56.5	720.701	758.034	801.320	821.339	825.127
57.0	710.420	748.295	791.039	809.436	812.682
57.5	699.599	738.556	780.759	798.073	799.696
58.0	689.319	728.276	770.479	786.170	787.252
58.5	679.039	718.536	759.657	774.266	773.725
59.0	668.758	708.797	748.836	761.822	760.740
59.5	658.478	699.058	738.556	748.836	747.213
60.0	647.657	689.319	727.735	736.392	732.604
60.5	637.376	679.580	716.913	723.406	718.536
61.0	626.555	669.299	706.633	710.420	703.387
61.5	616.275	659.560	695.812	696.894	688.237
62.0	605.454	649.280	684.449	683.367	672.005
62.5	594.632	639.541	672.546	668.758	655.773
63.0	583.811	629.260	661.183	654.150	639.000
63.5	572.990	618.439	649.280	639.000	621.144
64.0	562.168	608.159	637.376	622.768	602.748
64.5	550.806	597.879	624.391	606.536	583.811
65.0	539.497	587.057	611.946	588.680	563.250
65.5	528.081	576.236	598.961	569.743	541.608
66.0	516.286	564.874	584.893	550.265	518.829
66.5	504.382	553.511	570.825	530.516	495.779
67.0	492.587	541.608	556.758	509.035	471.648
67.5	480.467	530.191	541.608	487.447	447.354
68.0	468.185	518.450	525.700	464.939	424.359
68.5	455.903	506.438	509.577	442.376	401.255
69.0	443.350	494.264	492.912	419.922	376.474
69.5	431.663	482.144	475.868	397.522	351.369
70.0	420.842	469.916	458.392	373.498	327.183
70.5	410.399	457.364	441.402	349.475	303.592
71.0	397.792	445.081	423.385	325.722	281.084
71.5	384.915	434.368	404.988	302.294	259.820
72.0	372.200	421.707	386.105	279.786	239.151
72.5	359.485	410.507	364.733	257.981	219.348
73.0	346.661	398.117	343.523	237.691	201.493
73.5	334.325	385.077	321.285	218.916	185.153
74.0	321.881	371.929	299.426	201.006	170.165
74.5	309.490	358.348	277.297	184.395	156.314
75.0	296.721	344.659	255.329	169.029	143.383
75.5	284.439	330.592	234.174	154.799	131.858
76.0	272.589	316.199	213.667	141.868	121.037
76.5	260.145	301.969	194.405	130.127	111.352
77.0	248.133	287.198	176.658	119.359	102.532
77.5	235.689	272.373	160.318	109.728	94.470
78.0	223.785	257.115	145.222	101.125	87.490
78.5	211.828	240.991	131.587	93.063	80.998
79.0	199.870	224.867	119.576	85.705	74.830
79.5	188.075	208.473	108.538	79.050	69.419
80.0	176.496	191.754	98.582	72.936	64.603
80.5	164.863	174.656	89.601	67.471	60.221
81.0	153.014	157.883	81.322	62.385	56.217
81.5	141.381	141.110	73.747	57.786	52.321
82.0	130.072	125.040	66.930	53.457	48.371
82.5	118.872	110.323	60.762	49.237	44.638

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**CANDELA TABULATION - (Cont.)**

83.0	107.456	96.689	55.081	44.909	41.013
83.5	96.472	84.839	49.940	40.959	37.712
84.0	85.867	74.288	44.909	37.225	34.628
84.5	76.290	64.928	39.985	33.654	31.761
85.0	67.417	56.541	35.223	30.462	29.272
85.5	59.301	48.858	30.787	27.649	27.324
86.0	50.968	41.770	26.675	25.322	25.538
86.5	42.798	35.169	22.941	22.941	23.212
87.0	34.682	28.731	19.749	20.074	19.803
87.5	27.107	22.671	16.665	16.286	16.016
88.0	20.128	17.098	13.040	13.094	13.527
88.5	13.905	11.958	9.360	10.388	10.551
89.0	8.657	7.467	6.276	6.385	6.330
89.5	4.112	3.842	2.976	2.976	2.759
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-L40-840-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-L40-840-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-L40-840-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	495.01	N.A.	11.80
0-30	1068.1	N.A.	25.60
0-40	1783.2	N.A.	42.70
0-60	3286.56	N.A.	78.60
0-80	4126.72	N.A.	98.70
0-90	4179.84	N.A.	100.00
10-90	4053.13	N.A.	97.00
20-40	1288.19	N.A.	30.80
20-50	2060.23	N.A.	49.30
40-70	2074.54	N.A.	49.60
60-80	840.17	N.A.	20.10
70-80	268.98	N.A.	6.40
80-90	53.11	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	4179.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	126.71
10-20	368.30
20-30	573.09
30-40	715.10
40-50	772.04
50-60	731.31
60-70	571.19
70-80	268.98
80-90	53.11
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-L40-840-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	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

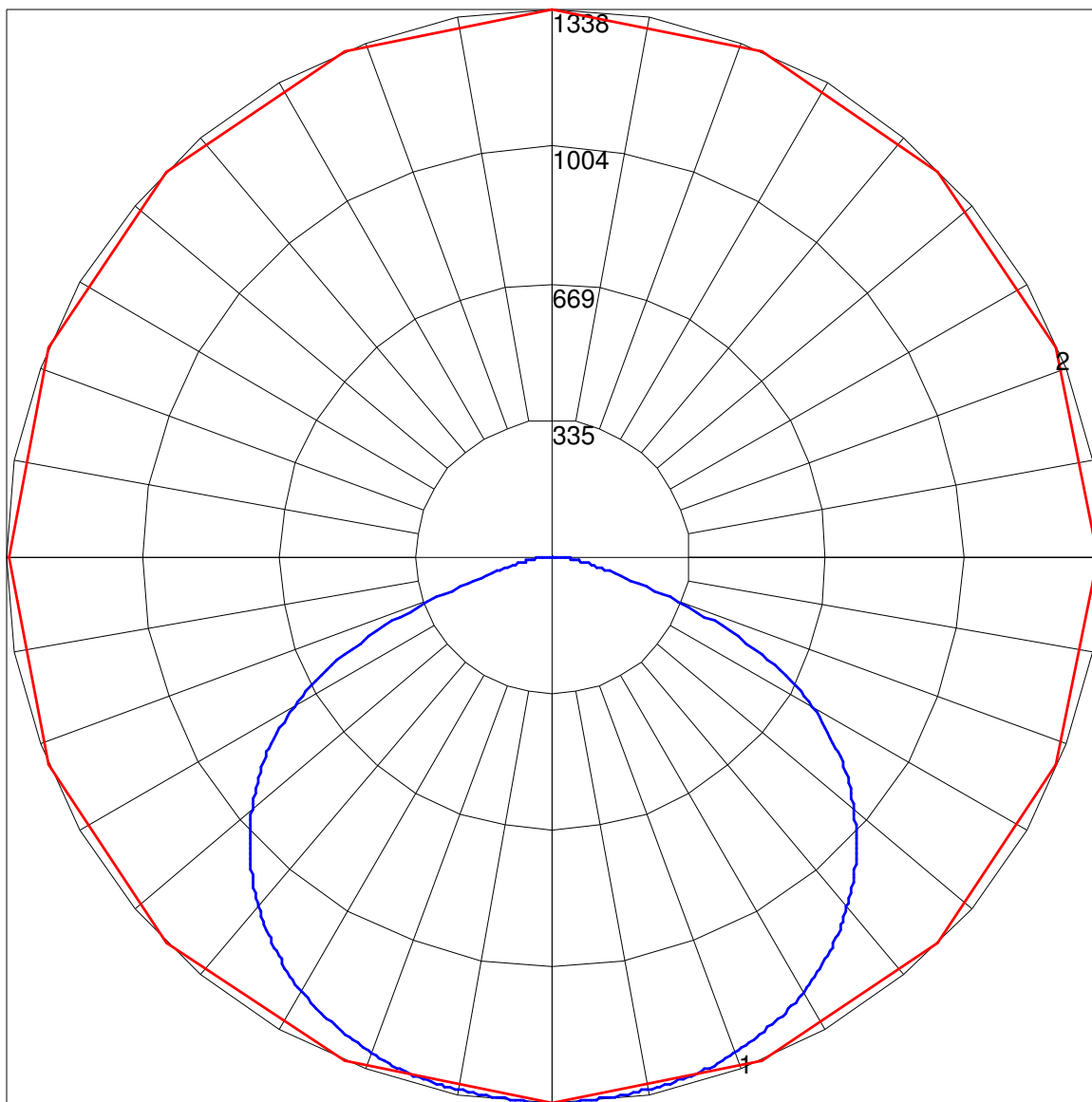
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BAR-24-L40-840-DIM-UNV\_.IES**

**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	14.7	16.4	15.1	16.7	17.0	15.3	17.0	15.7	17.3	17.6
	3H	16.7	18.2	17.1	18.5	18.9	16.7	18.2	17.1	18.5	18.9
	4H	17.4	18.8	17.8	19.2	19.6	16.8	18.3	17.2	18.6	19.0
	6H	17.9	19.3	18.4	19.6	20.0	16.9	18.2	17.3	18.6	19.0
	8H	18.1	19.3	18.5	19.7	20.1	16.9	18.2	17.3	18.6	19.0
	12H	18.2	19.4	18.6	19.7	20.2	16.9	18.1	17.3	18.5	18.9
4H	2H	15.5	16.9	15.9	17.3	17.7	16.0	17.4	16.4	17.7	18.1
	3H	17.7	18.9	18.1	19.3	19.7	17.5	18.7	17.9	19.1	19.5
	4H	18.6	19.7	19.0	20.1	20.5	17.8	18.8	18.2	19.2	19.7
	6H	19.3	20.2	19.7	20.6	21.1	17.9	18.8	18.3	19.2	19.7
	8H	19.4	20.3	19.9	20.7	21.2	17.9	18.7	18.3	19.2	19.7
	12H	19.5	20.3	20.0	20.8	21.3	17.9	18.7	18.4	19.1	19.6
8H	4H	18.8	19.7	19.3	20.1	20.6	18.0	18.9	18.5	19.3	19.8
	6H	19.5	20.3	20.0	20.8	21.2	18.2	18.9	18.6	19.4	19.8
	8H	19.8	20.4	20.3	20.9	21.4	18.2	18.8	18.7	19.3	19.8
	12H	19.9	20.5	20.4	21.0	21.5	18.2	18.8	18.7	19.3	19.8
12H	4H	18.8	19.6	19.3	20.1	20.5	18.1	18.8	18.5	19.3	19.8
	6H	19.6	20.2	20.1	20.7	21.2	18.2	18.9	18.7	19.3	19.9
	8H	19.8	20.4	20.3	20.9	21.4	18.3	18.8	18.8	19.3	19.9

Maximum UGR = 21.5

POLAR GRAPH



Maximum Candela = 1338.058 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.)