



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-24-L40-950-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-L40-950-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	3652
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
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	1666	1782	1855
55	1638	1814	1876
65	1597	1812	1668
75	1435	1235	693
85	968	506	420

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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	1167.286	1167.286	1167.286	1167.286	1167.286
0.5	1166.340	1167.286	1166.340	1168.231	1169.177
1.0	1165.867	1166.813	1165.867	1167.758	1169.177
1.5	1165.867	1166.813	1165.395	1167.758	1168.704
2.0	1165.395	1166.340	1165.395	1167.286	1168.231
2.5	1165.395	1165.867	1164.922	1166.813	1167.758
3.0	1164.922	1165.395	1163.976	1165.867	1167.286
3.5	1164.449	1164.922	1163.503	1165.395	1166.340
4.0	1164.449	1164.449	1162.558	1164.922	1165.867
4.5	1163.503	1163.503	1162.085	1164.449	1165.395
5.0	1163.031	1163.031	1161.140	1163.503	1164.449
5.5	1162.558	1162.085	1160.667	1163.031	1163.976
6.0	1161.612	1161.140	1159.721	1162.558	1163.503
6.5	1160.667	1159.721	1158.776	1161.612	1163.031
7.0	1159.721	1158.776	1158.303	1161.140	1162.558
7.5	1158.776	1157.830	1156.885	1160.194	1161.612
8.0	1157.357	1156.412	1155.939	1159.721	1161.140
8.5	1156.412	1154.994	1154.994	1158.776	1160.667
9.0	1154.994	1154.048	1154.048	1158.303	1160.194
9.5	1153.575	1152.630	1153.102	1157.357	1159.248
10.0	1151.684	1151.211	1151.684	1156.412	1158.776
10.5	1150.739	1149.320	1150.739	1155.939	1158.303
11.0	1148.847	1147.902	1149.320	1154.994	1157.357
11.5	1146.956	1146.011	1147.902	1154.048	1156.412
12.0	1145.065	1144.120	1146.484	1153.102	1155.939
12.5	1143.174	1142.229	1145.065	1152.157	1154.521
13.0	1140.810	1140.337	1143.647	1151.211	1154.048
13.5	1138.919	1138.446	1142.229	1149.793	1153.102
14.0	1136.555	1136.082	1140.337	1148.375	1152.157
14.5	1133.719	1134.191	1138.446	1146.956	1151.211
15.0	1131.827	1131.827	1136.555	1146.011	1149.793
15.5	1128.991	1128.991	1134.664	1144.120	1148.847
16.0	1126.627	1126.627	1132.773	1142.701	1146.956
16.5	1124.263	1124.263	1130.882	1140.810	1145.538
17.0	1121.426	1121.426	1128.518	1138.919	1144.120
17.5	1118.590	1119.062	1126.154	1137.028	1142.229
18.0	1115.753	1116.226	1124.263	1135.137	1140.337
18.5	1112.916	1113.862	1121.899	1132.773	1137.974
19.0	1109.607	1111.025	1119.535	1130.882	1135.610
19.5	1106.770	1107.716	1117.171	1128.518	1133.246
20.0	1103.461	1104.879	1114.807	1126.154	1130.882
20.5	1100.151	1102.043	1111.971	1123.790	1128.518
21.0	1096.842	1098.733	1109.134	1121.426	1125.681
21.5	1093.060	1095.424	1106.298	1118.590	1123.317
22.0	1089.750	1092.114	1103.461	1116.226	1120.954
22.5	1085.968	1088.805	1100.624	1113.389	1118.590
23.0	1082.659	1085.495	1097.788	1111.025	1116.226
23.5	1078.404	1081.713	1094.478	1108.189	1113.389
24.0	1074.149	1077.931	1091.169	1105.352	1111.025
24.5	1070.366	1074.149	1087.859	1102.988	1108.661
25.0	1066.111	1070.366	1085.023	1100.151	1105.825
25.5	1061.856	1066.111	1081.240	1097.315	1103.461
26.0	1057.602	1061.856	1077.931	1094.478	1101.097
26.5	1052.874	1057.602	1074.621	1091.641	1098.260

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**CANDELA TABULATION - (Cont.)**

27.0	1048.146	1053.347	1070.839	1088.805	1095.424
27.5	1043.418	1048.619	1067.530	1085.495	1092.587
28.0	1038.218	1044.364	1063.748	1082.186	1089.750
28.5	1033.490	1039.636	1059.965	1078.876	1086.441
29.0	1028.289	1034.908	1055.710	1075.094	1083.131
29.5	1023.089	1030.180	1051.928	1071.312	1079.349
30.0	1017.888	1025.453	1047.673	1067.530	1075.567
30.5	1012.215	1020.252	1043.418	1063.748	1071.785
31.0	1007.014	1015.524	1038.690	1059.493	1067.530
31.5	1001.814	1010.324	1034.435	1055.238	1063.275
32.0	996.141	1005.596	1029.708	1050.983	1059.020
32.5	990.467	1000.396	1024.980	1046.255	1054.765
33.0	985.267	994.722	1020.252	1042.000	1050.037
33.5	979.121	989.522	1015.524	1037.272	1045.782
34.0	973.447	983.848	1010.324	1032.544	1041.054
34.5	967.301	978.648	1005.123	1027.817	1036.327
35.0	961.155	972.974	1000.396	1023.089	1031.599
35.5	955.482	967.301	995.195	1018.361	1026.871
36.0	948.863	961.628	989.994	1013.160	1022.143
36.5	942.244	955.955	984.321	1008.433	1016.943
37.0	935.625	949.808	979.121	1003.232	1011.742
37.5	929.479	944.135	973.447	998.032	1006.542
38.0	922.860	937.516	968.247	992.358	1001.341
38.5	916.241	931.370	962.573	987.158	996.141
39.0	909.622	925.224	956.427	981.484	990.467
39.5	903.004	919.078	950.754	975.811	984.794
40.0	895.912	912.932	945.081	970.138	979.121
40.5	889.293	905.840	938.935	963.992	973.447
41.0	882.201	899.221	932.788	957.846	967.301
41.5	875.110	892.602	926.170	952.172	961.155
42.0	868.018	885.984	920.023	945.553	955.009
42.5	860.926	878.892	913.405	939.407	948.390
43.0	853.362	871.800	906.786	933.261	942.244
43.5	845.798	864.709	900.167	926.642	935.625
44.0	838.233	857.617	893.548	920.023	929.006
44.5	830.669	850.525	886.456	912.932	922.387
45.0	822.631	842.961	879.837	906.313	915.768
45.5	815.067	835.869	873.219	899.221	908.677
46.0	807.030	828.305	866.127	892.130	901.112
46.5	798.993	820.740	859.035	885.038	894.021
47.0	790.483	813.176	851.471	877.474	886.456
47.5	782.445	805.612	844.379	870.382	879.365
48.0	774.408	798.047	836.815	862.817	871.327
48.5	765.898	790.955	829.723	855.726	863.763
49.0	757.861	782.918	822.159	848.161	855.726
49.5	749.824	775.354	814.594	840.124	847.689
50.0	741.787	767.789	807.030	832.087	840.124
50.5	733.277	760.225	799.465	824.050	832.087
51.0	725.239	752.188	791.428	816.013	823.577
51.5	716.729	744.151	783.864	807.975	815.067
52.0	708.220	736.113	775.827	799.465	806.557
52.5	699.710	728.076	767.789	790.955	798.047
53.0	691.200	720.039	759.752	782.445	789.064
53.5	682.690	712.002	751.715	773.935	779.609
54.0	674.180	703.965	743.205	764.953	770.153
54.5	665.197	695.927	735.168	755.970	760.698

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**CANDELA TABULATION - (Cont.)**

55.0	656.214	687.890	726.658	746.514	751.242
55.5	647.704	679.380	717.675	737.059	741.314
56.0	638.721	670.870	709.165	727.131	731.386
56.5	629.739	662.360	700.182	717.675	720.984
57.0	620.756	653.850	691.200	707.274	710.111
57.5	611.300	645.340	682.217	697.346	698.764
58.0	602.318	636.357	673.234	686.945	687.890
58.5	593.335	627.847	663.779	676.543	676.071
59.0	584.352	619.337	654.323	665.670	664.724
59.5	575.369	610.828	645.340	654.323	652.905
60.0	565.914	602.318	635.885	643.449	640.140
60.5	556.931	593.808	626.429	632.102	627.847
61.0	547.475	584.825	617.446	620.756	614.610
61.5	538.493	576.315	607.991	608.936	601.372
62.0	529.037	567.332	598.063	597.117	587.189
62.5	519.582	558.822	587.661	584.352	573.005
63.0	510.126	549.839	577.733	571.587	558.349
63.5	500.671	540.384	567.332	558.349	542.748
64.0	491.215	531.401	556.931	544.166	526.673
64.5	481.287	522.418	545.584	529.983	510.126
65.0	471.406	512.963	534.710	514.381	492.161
65.5	461.430	503.507	523.364	497.834	473.249
66.0	451.124	493.579	511.072	480.814	453.346
66.5	440.722	483.651	498.779	463.558	433.205
67.0	430.416	473.249	486.487	444.788	412.119
67.5	419.826	463.274	473.249	425.925	390.892
68.0	409.094	453.015	459.350	406.257	370.799
68.5	398.362	442.519	445.261	386.542	350.611
69.0	387.393	431.882	430.700	366.922	328.958
69.5	377.181	421.291	415.807	347.349	307.021
70.0	367.726	410.607	400.536	326.358	285.888
70.5	358.601	399.638	385.691	305.366	265.275
71.0	347.585	388.906	369.948	284.612	245.608
71.5	336.333	379.545	353.873	264.140	227.027
72.0	325.223	368.482	337.373	244.473	208.967
72.5	314.113	358.696	318.699	225.420	191.664
73.0	302.908	347.869	300.166	207.691	176.062
73.5	292.129	336.475	280.735	191.285	161.784
74.0	281.255	324.987	261.635	175.637	148.688
74.5	270.428	313.120	242.298	161.122	136.585
75.0	259.271	301.159	223.103	147.695	125.286
75.5	248.539	288.867	204.618	135.261	115.216
76.0	238.185	276.291	186.700	123.962	105.760
76.5	227.311	263.857	169.869	113.703	97.297
77.0	216.815	250.950	154.362	104.295	89.591
77.5	205.942	237.996	140.084	95.879	82.547
78.0	195.540	224.663	126.893	88.362	76.448
78.5	185.092	210.575	114.979	81.318	70.775
79.0	174.644	196.486	104.484	74.888	65.385
79.5	164.337	182.161	94.839	69.073	60.657
80.0	154.220	167.552	86.140	63.730	56.450
80.5	144.055	152.612	78.292	58.955	52.620
81.0	133.701	137.956	71.058	54.511	49.122
81.5	123.537	123.300	64.439	50.493	45.718
82.0	113.656	109.259	58.482	46.710	42.266
82.5	103.869	96.399	53.093	43.023	39.004

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**CANDELA TABULATION - (Cont.)**

83.0	93.893	84.485	48.129	39.240	35.836
83.5	84.296	74.131	43.637	35.789	32.953
84.0	75.030	64.912	39.240	32.527	30.258
84.5	66.662	56.733	34.938	29.407	27.752
85.0	58.908	49.405	30.778	26.617	25.577
85.5	51.816	42.692	26.901	24.159	23.875
86.0	44.536	36.498	23.308	22.126	22.315
86.5	37.397	30.730	20.046	20.046	20.282
87.0	30.305	25.104	17.256	17.540	17.304
87.5	23.686	19.809	14.562	14.231	13.994
88.0	17.587	14.940	11.394	11.441	11.819
88.5	12.150	10.448	8.179	9.077	9.219
89.0	7.564	6.524	5.484	5.579	5.531
89.5	3.593	3.357	2.600	2.600	2.411
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-L40-950-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-L40-950-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-L40-950-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	432.53	N.A.	11.80
0-30	933.29	N.A.	25.60
0-40	1558.13	N.A.	42.70
0-60	2871.75	N.A.	78.60
0-80	3605.88	N.A.	98.70
0-90	3652.28	N.A.	100.00
10-90	3541.57	N.A.	97.00
20-40	1125.6	N.A.	30.80
20-50	1800.2	N.A.	49.30
40-70	1812.71	N.A.	49.60
60-80	734.13	N.A.	20.10
70-80	235.03	N.A.	6.40
80-90	46.41	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	3652.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	110.71
10-20	321.82
20-30	500.76
30-40	624.84
40-50	674.60
50-60	639.01
60-70	499.10
70-80	235.03
80-90	46.41
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-L40-950-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	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-L40-950-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

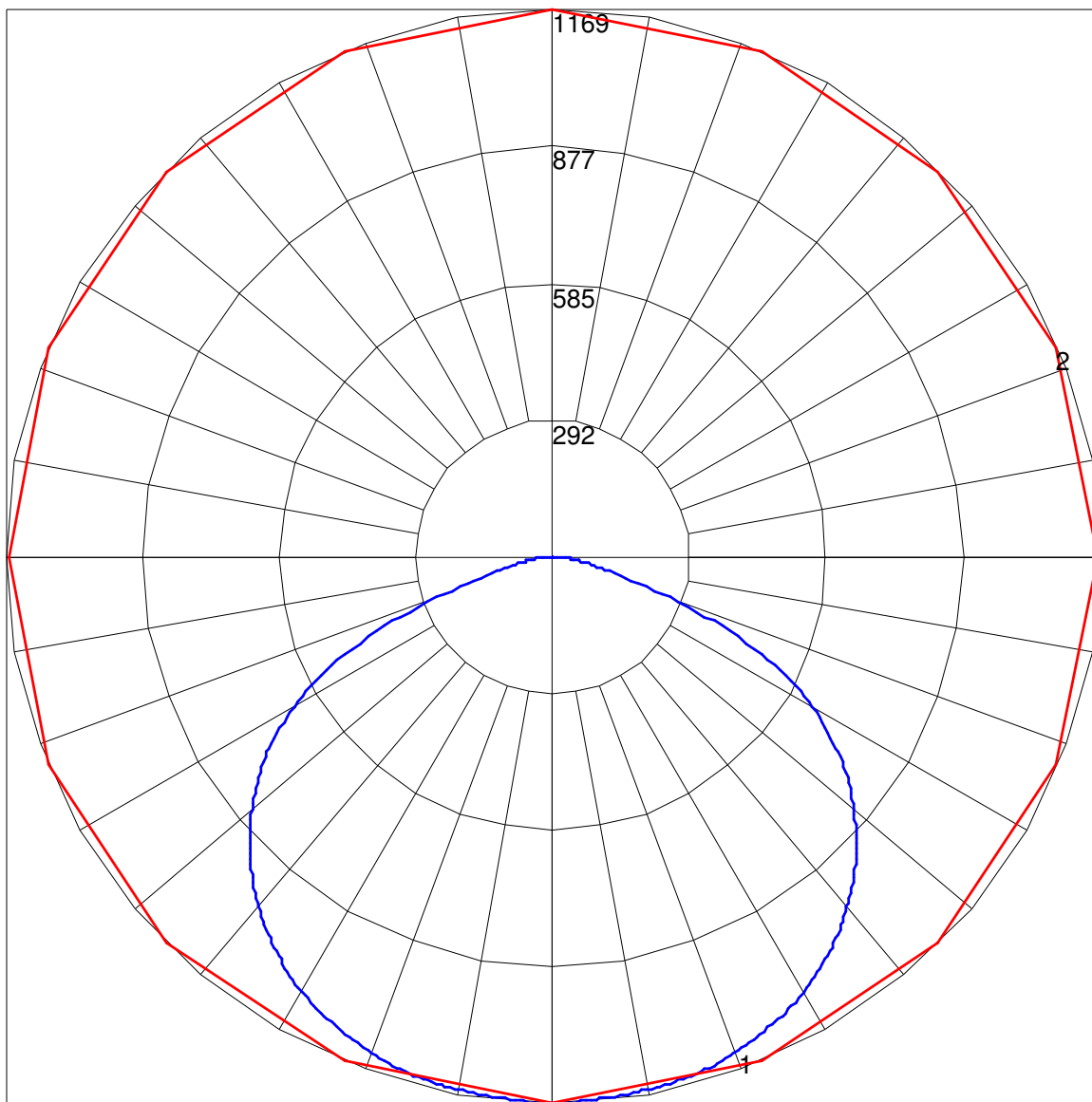
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	14.2	15.9	14.6	16.2	16.5	14.8	16.5	15.2	16.8	17.1
	3H	16.2	17.7	16.6	18.0	18.4	16.2	17.7	16.6	18.0	18.4
	4H	16.9	18.3	17.3	18.7	19.1	16.3	17.8	16.7	18.1	18.5
	6H	17.4	18.8	17.9	19.1	19.5	16.4	17.7	16.8	18.1	18.5
	8H	17.6	18.8	18.0	19.2	19.6	16.4	17.7	16.8	18.1	18.5
	12H	17.7	18.9	18.1	19.2	19.7	16.4	17.6	16.8	18.0	18.4
4H	2H	15.0	16.4	15.4	16.8	17.2	15.5	16.9	15.9	17.2	17.6
	3H	17.2	18.4	17.6	18.8	19.2	17.0	18.2	17.4	18.6	19.0
	4H	18.1	19.2	18.5	19.6	20.0	17.3	18.3	17.7	18.7	19.2
	6H	18.8	19.7	19.2	20.1	20.6	17.4	18.3	17.8	18.7	19.2
	8H	18.9	19.8	19.4	20.2	20.7	17.4	18.2	17.8	18.7	19.2
	12H	19.0	19.8	19.5	20.3	20.8	17.4	18.2	17.9	18.6	19.1
8H	4H	18.3	19.2	18.8	19.6	20.1	17.5	18.4	18.0	18.8	19.3
	6H	19.0	19.8	19.5	20.3	20.7	17.7	18.4	18.1	18.9	19.3
	8H	19.3	19.9	19.8	20.4	20.9	17.7	18.3	18.2	18.8	19.3
	12H	19.4	20.0	19.9	20.5	21.0	17.7	18.3	18.2	18.8	19.3
12H	4H	18.3	19.1	18.8	19.6	20.0	17.6	18.3	18.0	18.8	19.3
	6H	19.1	19.7	19.6	20.2	20.7	17.7	18.4	18.2	18.8	19.4
	8H	19.3	19.9	19.8	20.4	20.9	17.8	18.3	18.3	18.8	19.4

Maximum UGR = 21.0

POLAR GRAPH



Maximum Candela = 1169.177 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.)