



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-24-L40-835-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GENERATED FROM 15729805.03
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 2025-04-25
[TEST DATE] 3/18/2025
[MANUFAC] WILLIAMS INDOOR
[MORE] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] BAR-24-L40-835-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	4058
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
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	1851	1980	2061
55	1821	2016	2084
65	1775	2013	1853
75	1594	1372	770
85	1076	562	467

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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	1296.984	1296.984	1296.984	1296.984	1296.984
0.5	1295.933	1296.984	1295.933	1298.035	1299.085
1.0	1295.408	1296.459	1295.408	1297.509	1299.085
1.5	1295.408	1296.459	1294.883	1297.509	1298.560
2.0	1294.883	1295.933	1294.883	1296.984	1298.035
2.5	1294.883	1295.408	1294.357	1296.459	1297.509
3.0	1294.357	1294.883	1293.307	1295.408	1296.984
3.5	1293.832	1294.357	1292.782	1294.883	1295.933
4.0	1293.832	1293.832	1291.731	1294.357	1295.408
4.5	1292.782	1292.782	1291.206	1293.832	1294.883
5.0	1292.256	1292.256	1290.155	1292.782	1293.832
5.5	1291.731	1291.206	1289.630	1292.256	1293.307
6.0	1290.680	1290.155	1288.579	1291.731	1292.782
6.5	1289.630	1288.579	1287.528	1290.680	1292.256
7.0	1288.579	1287.528	1287.003	1290.155	1291.731
7.5	1287.528	1286.478	1285.427	1289.104	1290.680
8.0	1285.953	1284.902	1284.377	1288.579	1290.155
8.5	1284.902	1283.326	1283.326	1287.528	1289.630
9.0	1283.326	1282.275	1282.275	1287.003	1289.104
9.5	1281.750	1280.699	1281.225	1285.953	1288.054
10.0	1279.649	1279.124	1279.649	1284.902	1287.528
10.5	1278.598	1277.022	1278.598	1284.377	1287.003
11.0	1276.497	1275.446	1277.022	1283.326	1285.953
11.5	1274.396	1273.345	1275.446	1282.275	1284.902
12.0	1272.295	1271.244	1273.870	1281.225	1284.377
12.5	1270.193	1269.143	1272.295	1280.174	1282.801
13.0	1267.567	1267.041	1270.719	1279.124	1282.275
13.5	1265.466	1264.940	1269.143	1277.548	1281.225
14.0	1262.839	1262.314	1267.041	1275.972	1280.174
14.5	1259.687	1260.212	1264.940	1274.396	1279.124
15.0	1257.586	1257.586	1262.839	1273.345	1277.548
15.5	1254.434	1254.434	1260.738	1271.244	1276.497
16.0	1251.808	1251.808	1258.637	1269.668	1274.396
16.5	1249.181	1249.181	1256.535	1267.567	1272.820
17.0	1246.029	1246.029	1253.909	1265.466	1271.244
17.5	1242.877	1243.403	1251.282	1263.364	1269.143
18.0	1239.726	1240.251	1249.181	1261.263	1267.041
18.5	1236.574	1237.624	1246.555	1258.637	1264.415
19.0	1232.897	1234.472	1243.928	1256.535	1261.788
19.5	1229.745	1230.795	1241.301	1253.909	1259.162
20.0	1226.068	1227.643	1238.675	1251.282	1256.535
20.5	1222.390	1224.492	1235.523	1248.656	1253.909
21.0	1218.713	1220.814	1232.371	1246.029	1250.757
21.5	1214.511	1217.137	1229.219	1242.877	1248.130
22.0	1210.834	1213.460	1226.068	1240.251	1245.504
22.5	1206.631	1209.783	1222.916	1237.099	1242.877
23.0	1202.954	1206.106	1219.764	1234.472	1240.251
23.5	1198.226	1201.903	1216.087	1231.321	1237.099
24.0	1193.498	1197.701	1212.410	1228.169	1234.472
24.5	1189.296	1193.498	1208.732	1225.542	1231.846
25.0	1184.568	1189.296	1205.581	1222.390	1228.694
25.5	1179.840	1184.568	1201.378	1219.239	1226.068
26.0	1175.113	1179.840	1197.701	1216.087	1223.441
26.5	1169.860	1175.113	1194.024	1212.935	1220.289

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27.0	1164.607	1170.385	1189.821	1209.783	1217.137
27.5	1159.353	1165.132	1186.144	1206.106	1213.985
28.0	1153.575	1160.404	1181.942	1202.429	1210.834
28.5	1148.322	1155.151	1177.739	1198.752	1207.156
29.0	1142.544	1149.898	1173.011	1194.549	1203.479
29.5	1136.765	1144.645	1168.809	1190.347	1199.277
30.0	1130.987	1139.392	1164.081	1186.144	1195.074
30.5	1124.683	1133.613	1159.353	1181.942	1190.872
31.0	1118.905	1128.360	1154.100	1177.214	1186.144
31.5	1113.126	1122.582	1149.373	1172.486	1181.416
32.0	1106.823	1117.329	1144.120	1167.758	1176.689
32.5	1100.519	1111.550	1138.866	1162.505	1171.961
33.0	1094.741	1105.247	1133.613	1157.778	1166.708
33.5	1087.912	1099.468	1128.360	1152.524	1161.980
34.0	1081.608	1093.165	1122.582	1147.271	1156.727
34.5	1074.779	1087.386	1116.804	1142.018	1151.474
35.0	1067.950	1081.083	1111.550	1136.765	1146.221
35.5	1061.646	1074.779	1105.772	1131.512	1140.968
36.0	1054.292	1068.475	1099.994	1125.734	1135.715
36.5	1046.938	1062.172	1093.690	1120.481	1129.936
37.0	1039.583	1055.343	1087.912	1114.702	1124.158
37.5	1032.754	1049.039	1081.608	1108.924	1118.379
38.0	1025.400	1041.685	1075.830	1102.620	1112.601
38.5	1018.046	1034.856	1069.526	1096.842	1106.823
39.0	1010.691	1028.027	1062.697	1090.538	1100.519
39.5	1003.337	1021.198	1056.393	1084.235	1094.215
40.0	995.458	1014.369	1050.090	1077.931	1087.912
40.5	988.103	1006.489	1043.261	1071.102	1081.608
41.0	980.224	999.135	1036.432	1064.273	1074.779
41.5	972.344	991.780	1029.077	1057.969	1067.950
42.0	964.464	984.426	1022.248	1050.615	1061.121
42.5	956.585	976.546	1014.894	1043.786	1053.767
43.0	948.180	968.667	1007.540	1036.957	1046.938
43.5	939.775	960.787	1000.185	1029.603	1039.583
44.0	931.370	952.908	992.831	1022.248	1032.229
44.5	922.965	945.028	984.951	1014.369	1024.875
45.0	914.035	936.623	977.597	1007.014	1017.520
45.5	905.630	928.744	970.243	999.135	1009.641
46.0	896.700	920.339	962.363	991.255	1001.236
46.5	887.770	911.934	954.484	983.375	993.356
47.0	878.314	903.529	946.079	974.971	984.951
47.5	869.384	895.124	938.199	967.091	977.072
48.0	860.454	886.719	929.794	958.686	968.142
48.5	850.998	878.839	921.915	950.806	959.737
49.0	842.068	869.909	913.510	942.402	950.806
49.5	833.138	861.504	905.105	933.471	941.876
50.0	824.207	853.099	896.700	924.541	933.471
50.5	814.752	844.694	888.295	915.611	924.541
51.0	805.822	835.764	879.365	906.681	915.086
51.5	796.366	826.834	870.960	897.750	905.630
52.0	786.911	817.904	862.029	888.295	896.174
52.5	777.455	808.973	853.099	878.839	886.719
53.0	767.999	800.043	844.169	869.384	876.738
53.5	758.544	791.113	835.239	859.928	866.232
54.0	749.088	782.183	825.783	849.947	855.726
54.5	739.108	773.253	816.853	839.967	845.220

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55.0	729.127	764.322	807.397	829.460	834.713
55.5	719.671	754.867	797.417	818.954	823.682
56.0	709.690	745.411	787.961	807.923	812.651
56.5	699.709	735.956	777.980	797.417	801.094
57.0	689.729	726.500	767.999	785.860	789.012
57.5	679.222	717.045	758.019	774.828	776.404
58.0	669.242	707.064	748.038	763.272	764.322
58.5	659.261	697.608	737.532	751.715	751.190
59.0	649.280	688.153	727.025	739.633	738.582
59.5	639.299	678.697	717.045	727.025	725.450
60.0	628.793	669.242	706.538	714.943	711.266
60.5	618.812	659.786	696.032	702.336	697.608
61.0	608.306	649.805	686.051	689.729	682.900
61.5	598.325	640.350	675.545	676.596	668.191
62.0	587.819	630.369	664.514	663.463	652.432
62.5	577.313	620.913	652.957	649.280	636.673
63.0	566.807	610.933	641.926	635.097	620.388
63.5	556.301	600.426	630.369	620.388	603.053
64.0	545.794	590.446	618.812	604.629	585.192
64.5	534.763	580.465	606.205	588.870	566.807
65.0	523.784	569.959	594.123	571.534	546.845
65.5	512.700	559.452	581.515	553.149	525.833
66.0	501.248	548.421	567.857	534.238	503.717
66.5	489.692	537.389	554.199	515.064	481.339
67.0	478.240	525.833	540.541	494.209	457.910
67.5	466.473	514.749	525.833	473.249	434.324
68.0	454.549	503.350	510.389	451.397	411.999
68.5	442.624	491.688	494.735	429.491	389.568
69.0	430.437	479.868	478.555	407.691	365.509
69.5	419.090	468.101	462.008	385.943	341.135
70.0	408.584	456.229	445.040	362.620	317.653
70.5	398.446	444.042	428.546	339.296	294.750
71.0	386.206	432.118	411.053	316.235	272.897
71.5	373.704	421.717	393.193	293.489	252.253
72.0	361.359	409.425	374.859	271.636	232.186
72.5	349.014	398.551	354.110	250.467	212.960
73.0	336.564	386.521	333.518	230.768	195.624
73.5	324.587	373.861	311.928	212.539	179.760
74.0	312.505	361.096	290.705	195.152	165.209
74.5	300.476	347.911	269.220	179.025	151.761
75.0	288.079	334.621	247.893	164.106	139.206
75.5	276.154	320.963	227.353	150.290	128.017
76.0	264.650	306.990	207.444	137.736	117.511
76.5	252.568	293.174	188.743	126.336	108.108
77.0	240.906	278.833	171.513	115.883	99.546
77.5	228.824	264.440	155.649	106.532	91.719
78.0	217.267	249.626	140.993	98.180	84.942
78.5	205.658	233.972	127.755	90.353	78.639
79.0	194.049	218.318	116.093	83.209	72.650
79.5	182.597	202.401	105.377	76.747	67.397
80.0	171.355	186.169	95.711	70.811	62.722
80.5	160.061	169.569	86.991	65.506	58.467
81.0	148.557	153.285	78.954	60.568	54.579
81.5	137.263	137.000	71.599	56.103	50.797
82.0	126.284	121.399	64.981	51.900	46.962
82.5	115.410	107.110	58.992	47.803	43.338

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CANDELA TABULATION - (Cont.)

83.0	104.326	93.872	53.476	43.601	39.818
83.5	93.662	82.368	48.486	39.766	36.614
84.0	83.366	72.125	43.601	36.141	33.620
84.5	74.068	63.037	38.820	32.674	30.836
85.0	65.453	54.895	34.198	29.575	28.419
85.5	57.574	47.435	29.890	26.843	26.528
86.0	49.484	40.554	25.898	24.584	24.795
86.5	41.552	34.145	22.273	22.273	22.536
87.0	33.672	27.894	19.174	19.489	19.226
87.5	26.318	22.010	16.179	15.812	15.549
88.0	19.541	16.600	12.660	12.712	13.133
88.5	13.500	11.609	9.088	10.086	10.243
89.0	8.405	7.249	6.094	6.199	6.146
89.5	3.992	3.730	2.889	2.889	2.679
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-L40-835-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-L40-835-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-L40-835-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	480.59	N.A.	11.80
0-30	1036.99	N.A.	25.60
0-40	1731.26	N.A.	42.70
0-60	3190.83	N.A.	78.60
0-80	4006.53	N.A.	98.70
0-90	4058.09	N.A.	100.00
10-90	3935.08	N.A.	97.00
20-40	1250.67	N.A.	30.80
20-50	2000.22	N.A.	49.30
40-70	2014.12	N.A.	49.60
60-80	815.70	N.A.	20.10
70-80	261.15	N.A.	6.40
80-90	51.57	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	4058.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	123.02
10-20	357.58
20-30	556.40
30-40	694.27
40-50	749.56
50-60	710.01
60-70	554.55
70-80	261.15
80-90	51.57
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-L40-835-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-L40-835-DIM-UNV_.IES

UGR TABLE - CORRECTED

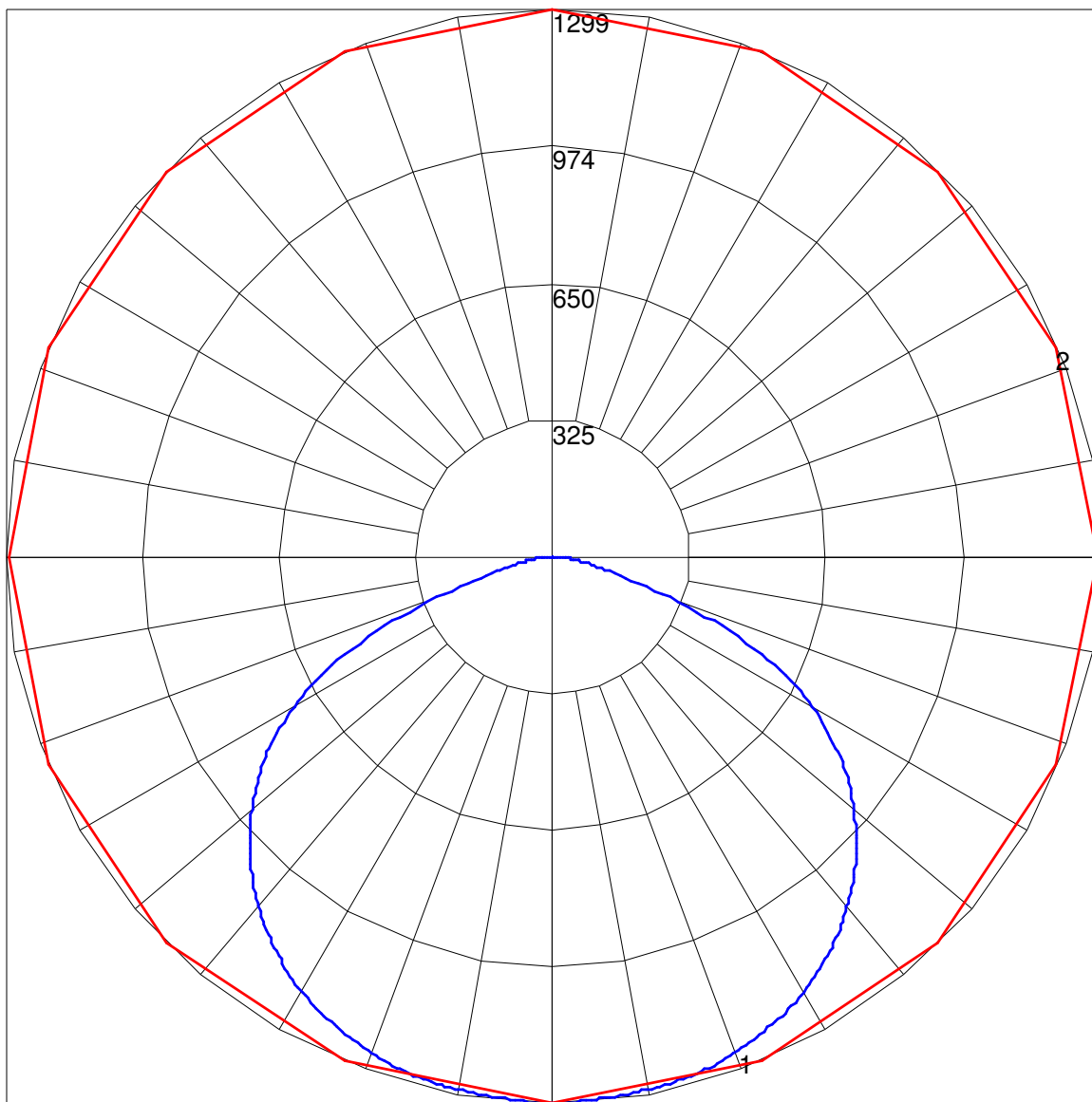
Reflectances

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	14.6	16.3	15.0	16.6	16.9	15.2	16.9	15.6	17.2	17.5
	3H	16.6	18.1	17.0	18.4	18.8	16.6	18.1	17.0	18.4	18.8
	4H	17.3	18.7	17.7	19.1	19.5	16.7	18.2	17.1	18.5	18.9
	6H	17.8	19.2	18.3	19.5	19.9	16.8	18.1	17.2	18.5	18.9
	8H	18.0	19.2	18.4	19.6	20.0	16.8	18.1	17.2	18.5	18.9
	12H	18.1	19.3	18.5	19.6	20.1	16.8	18.0	17.2	18.4	18.8
4H	2H	15.4	16.8	15.8	17.2	17.6	15.9	17.3	16.3	17.6	18.0
	3H	17.6	18.8	18.0	19.2	19.6	17.4	18.6	17.8	19.0	19.4
	4H	18.5	19.6	18.9	20.0	20.4	17.7	18.7	18.1	19.1	19.6
	6H	19.2	20.1	19.6	20.5	21.0	17.8	18.7	18.2	19.1	19.6
	8H	19.3	20.2	19.8	20.6	21.1	17.8	18.6	18.2	19.1	19.6
	12H	19.4	20.2	19.9	20.7	21.2	17.8	18.6	18.3	19.0	19.5
8H	4H	18.7	19.6	19.2	20.0	20.5	17.9	18.8	18.4	19.2	19.7
	6H	19.4	20.2	19.9	20.7	21.1	18.1	18.8	18.5	19.3	19.7
	8H	19.7	20.3	20.2	20.8	21.3	18.1	18.7	18.6	19.2	19.7
	12H	19.8	20.4	20.3	20.9	21.4	18.1	18.7	18.6	19.2	19.7
12H	4H	18.7	19.5	19.2	20.0	20.4	18.0	18.7	18.4	19.2	19.7
	6H	19.5	20.1	20.0	20.6	21.1	18.1	18.8	18.6	19.2	19.8
	8H	19.7	20.3	20.2	20.8	21.3	18.2	18.7	18.7	19.2	19.8

Maximum UGR = 21.4

POLAR GRAPH



Maximum Candela = 1299.085 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.)