



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-24-L40-830-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-L40-830-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	4018
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
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	1833	1960	2040
55	1802	1996	2063
65	1757	1993	1835
75	1578	1358	763
85	1065	556	462

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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	1284.014	1284.014	1284.014	1284.014	1284.014
0.5	1282.974	1284.014	1282.974	1285.054	1286.094
1.0	1282.454	1283.494	1282.454	1284.534	1286.094
1.5	1282.454	1283.494	1281.934	1284.534	1285.574
2.0	1281.934	1282.974	1281.934	1284.014	1285.054
2.5	1281.934	1282.454	1281.414	1283.494	1284.534
3.0	1281.414	1281.934	1280.374	1282.454	1284.014
3.5	1280.894	1281.414	1279.854	1281.934	1282.974
4.0	1280.894	1280.894	1278.813	1281.414	1282.454
4.5	1279.854	1279.854	1278.293	1280.894	1281.934
5.0	1279.334	1279.334	1277.253	1279.854	1280.894
5.5	1278.813	1278.293	1276.733	1279.334	1280.374
6.0	1277.773	1277.253	1275.693	1278.813	1279.854
6.5	1276.733	1275.693	1274.653	1277.773	1279.334
7.0	1275.693	1274.653	1274.133	1277.253	1278.813
7.5	1274.653	1273.613	1272.573	1276.213	1277.773
8.0	1273.093	1272.053	1271.533	1275.693	1277.253
8.5	1272.053	1270.493	1270.493	1274.653	1276.733
9.0	1270.493	1269.452	1269.452	1274.133	1276.213
9.5	1268.932	1267.892	1268.412	1273.093	1275.173
10.0	1266.852	1266.332	1266.852	1272.053	1274.653
10.5	1265.812	1264.252	1265.812	1271.533	1274.133
11.0	1263.732	1262.692	1264.252	1270.493	1273.093
11.5	1261.652	1260.612	1262.692	1269.452	1272.053
12.0	1259.571	1258.531	1261.132	1268.412	1271.533
12.5	1257.491	1256.451	1259.571	1267.372	1269.973
13.0	1254.891	1254.371	1258.011	1266.332	1269.452
13.5	1252.811	1252.291	1256.451	1264.772	1268.412
14.0	1250.210	1249.690	1254.371	1263.212	1267.372
14.5	1247.090	1247.610	1252.291	1261.652	1266.332
15.0	1245.010	1245.010	1250.210	1260.612	1264.772
15.5	1241.890	1241.890	1248.130	1258.531	1263.732
16.0	1239.289	1239.289	1246.050	1256.971	1261.652
16.5	1236.689	1236.689	1243.970	1254.891	1260.092
17.0	1233.569	1233.569	1241.370	1252.811	1258.531
17.5	1230.448	1230.968	1238.769	1250.731	1256.451
18.0	1227.328	1227.848	1236.689	1248.650	1254.371
18.5	1224.208	1225.248	1234.089	1246.050	1251.771
19.0	1220.567	1222.128	1231.489	1243.970	1249.170
19.5	1217.447	1218.487	1228.888	1241.370	1246.570
20.0	1213.807	1215.367	1226.288	1238.769	1243.970
20.5	1210.166	1212.247	1223.168	1236.169	1241.370
21.0	1206.526	1208.606	1220.047	1233.569	1238.249
21.5	1202.365	1204.966	1216.927	1230.448	1235.649
22.0	1198.725	1201.325	1213.807	1227.848	1233.049
22.5	1194.565	1197.685	1210.686	1224.728	1230.448
23.0	1190.924	1194.045	1207.566	1222.128	1227.848
23.5	1186.244	1189.884	1203.926	1219.007	1224.728
24.0	1181.563	1185.724	1200.285	1215.887	1222.128
24.5	1177.403	1181.563	1196.645	1213.287	1219.527
25.0	1172.722	1177.403	1193.525	1210.166	1216.407
25.5	1168.042	1172.722	1189.364	1207.046	1213.807
26.0	1163.361	1168.042	1185.724	1203.926	1211.206
26.5	1158.161	1163.361	1182.083	1200.805	1208.086

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CANDELA TABULATION - (Cont.)

27.0	1152.960	1158.681	1177.923	1197.685	1204.966
27.5	1147.760	1153.480	1174.283	1194.045	1201.845
28.0	1142.039	1148.800	1170.122	1190.404	1198.725
28.5	1136.839	1143.599	1165.962	1186.764	1195.085
29.0	1131.118	1138.399	1161.281	1182.603	1191.444
29.5	1125.397	1133.198	1157.121	1178.443	1187.284
30.0	1119.677	1127.998	1152.440	1174.283	1183.123
30.5	1113.436	1122.277	1147.760	1170.122	1178.963
31.0	1107.716	1117.077	1142.559	1165.442	1174.283
31.5	1101.995	1111.356	1137.879	1160.761	1169.602
32.0	1095.754	1106.155	1132.678	1156.081	1164.922
32.5	1089.514	1100.435	1127.478	1150.880	1160.241
33.0	1083.793	1094.194	1122.277	1146.200	1155.041
33.5	1077.032	1088.474	1117.077	1140.999	1150.360
34.0	1070.792	1082.233	1111.356	1135.799	1145.160
34.5	1064.031	1076.512	1105.635	1130.598	1139.959
35.0	1057.270	1070.272	1100.435	1125.397	1134.758
35.5	1051.030	1064.031	1094.714	1120.197	1129.558
36.0	1043.749	1057.790	1088.994	1114.476	1124.357
36.5	1036.468	1051.550	1082.753	1109.276	1118.637
37.0	1029.187	1044.789	1077.032	1103.555	1112.916
37.5	1022.427	1038.548	1070.792	1097.835	1107.196
38.0	1015.146	1031.268	1065.071	1091.594	1101.475
38.5	1007.865	1024.507	1058.831	1085.873	1095.754
39.0	1000.584	1017.746	1052.070	1079.633	1089.514
39.5	993.304	1010.986	1045.829	1073.392	1083.273
40.0	985.503	1004.225	1039.589	1067.151	1077.032
40.5	978.222	996.424	1032.828	1060.391	1070.792
41.0	970.421	989.143	1026.067	1053.630	1064.031
41.5	962.620	981.862	1018.786	1047.389	1057.270
42.0	954.820	974.582	1012.026	1040.109	1050.510
42.5	947.019	966.781	1004.745	1033.348	1043.229
43.0	938.698	958.980	997.464	1026.587	1036.468
43.5	930.377	951.179	990.183	1019.306	1029.187
44.0	922.056	943.378	982.903	1012.026	1021.907
44.5	913.735	935.578	975.102	1004.225	1014.626
45.0	904.894	927.257	967.821	996.944	1007.345
45.5	896.574	919.456	960.540	989.143	999.544
46.0	887.733	911.135	952.739	981.342	991.223
46.5	878.892	902.814	944.939	973.542	983.423
47.0	869.531	894.493	936.618	965.221	975.102
47.5	860.690	886.172	928.817	957.420	967.301
48.0	851.849	877.852	920.496	949.099	958.460
48.5	842.488	870.051	912.695	941.298	950.139
49.0	833.647	861.210	904.374	932.977	941.298
49.5	824.806	852.889	896.054	924.136	932.457
50.0	815.965	844.568	887.733	915.296	924.136
50.5	806.604	836.247	879.412	906.455	915.296
51.0	797.763	827.406	870.571	897.614	905.935
51.5	788.402	818.565	862.250	888.773	896.574
52.0	779.041	809.725	853.409	879.412	887.213
52.5	769.680	800.884	844.568	870.051	877.852
53.0	760.319	792.043	835.727	860.690	867.971
53.5	750.958	783.202	826.886	851.329	857.570
54.0	741.597	774.361	817.525	841.448	847.168
54.5	731.716	765.520	808.684	831.567	836.767

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55.0	721.835	756.679	799.323	821.166	826.366
55.5	712.474	747.318	789.442	810.765	815.445
56.0	702.593	737.957	780.081	799.843	804.524
56.5	692.712	728.596	770.200	789.442	793.083
57.0	682.831	719.235	760.319	778.001	781.122
57.5	672.430	709.874	750.438	767.080	768.640
58.0	662.549	699.993	740.557	755.639	756.679
58.5	652.668	690.632	730.156	744.198	743.678
59.0	642.787	681.271	719.755	732.236	731.196
59.5	632.906	671.910	709.874	719.755	718.195
60.0	622.505	662.549	699.473	707.794	704.153
60.5	612.624	653.188	689.072	695.313	690.632
61.0	602.223	643.307	679.191	682.831	676.071
61.5	592.342	633.946	668.790	669.830	661.509
62.0	581.941	624.065	657.869	656.829	645.907
62.5	571.540	614.704	646.427	642.787	630.306
63.0	561.139	604.823	635.506	628.746	614.184
63.5	550.737	594.422	624.065	614.184	597.022
64.0	540.336	584.541	612.624	598.582	579.340
64.5	529.415	574.660	600.143	582.981	561.139
65.0	518.546	564.259	588.181	565.819	541.377
65.5	507.573	553.858	575.700	547.617	520.574
66.0	496.236	542.937	562.179	528.895	498.680
66.5	484.795	532.016	548.657	509.913	476.526
67.0	473.457	520.574	535.136	489.267	453.331
67.5	461.808	509.601	520.574	468.517	429.981
68.0	450.003	498.316	505.285	446.883	407.879
68.5	438.198	486.771	489.787	425.196	385.672
69.0	426.132	475.070	473.769	403.614	361.854
69.5	414.899	463.420	457.388	382.084	337.723
70.0	404.498	451.667	440.590	358.993	314.477
70.5	394.461	439.602	424.260	335.903	291.802
71.0	382.344	427.797	406.942	313.073	270.168
71.5	369.967	417.500	389.261	290.554	249.730
72.0	357.745	405.330	371.111	268.920	229.864
72.5	345.524	394.565	350.569	247.962	210.830
73.0	333.199	382.656	330.182	228.460	193.668
73.5	321.342	370.123	308.808	210.414	177.963
74.0	309.380	357.485	287.798	193.200	163.557
74.5	297.471	344.432	266.528	177.234	150.244
75.0	285.198	331.275	245.414	162.465	137.814
75.5	273.393	317.753	225.079	148.788	126.737
76.0	262.003	303.920	205.369	136.358	116.336
76.5	250.042	290.242	186.856	125.073	107.027
77.0	238.497	276.045	169.798	114.724	98.550
77.5	226.536	261.795	154.092	105.467	90.801
78.0	215.094	247.130	139.583	97.198	84.093
78.5	203.601	231.632	126.477	89.449	77.852
79.0	192.108	216.135	114.932	82.377	71.924
79.5	180.771	200.377	104.323	75.980	66.723
80.0	169.642	184.307	94.754	70.103	62.094
80.5	158.461	167.874	86.121	64.851	57.882
81.0	147.071	151.752	78.164	59.962	54.034
81.5	135.890	135.630	70.883	55.542	50.289
82.0	125.021	120.185	64.331	51.381	46.493
82.5	114.256	106.039	58.402	47.325	42.904

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CANDELA TABULATION - (Cont.)

83.0	103.283	92.934	52.942	43.165	39.420
83.5	92.726	81.545	48.001	39.368	36.248
84.0	82.533	71.403	43.165	35.780	33.283
84.5	73.328	62.407	38.432	32.347	30.527
85.0	64.799	54.346	33.856	29.279	28.135
85.5	56.998	46.961	29.591	26.575	26.263
86.0	48.989	40.148	25.639	24.339	24.547
86.5	41.136	33.804	22.050	22.050	22.310
87.0	33.335	27.615	18.982	19.294	19.034
87.5	26.055	21.790	16.018	15.654	15.394
88.0	19.346	16.434	12.533	12.585	13.001
88.5	13.365	11.493	8.997	9.985	10.141
89.0	8.321	7.177	6.033	6.137	6.085
89.5	3.952	3.692	2.860	2.860	2.652
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-L40-830-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-L40-830-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-L40-830-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	475.79	N.A.	11.80
0-30	1026.62	N.A.	25.60
0-40	1713.95	N.A.	42.70
0-60	3158.92	N.A.	78.60
0-80	3966.46	N.A.	98.70
0-90	4017.51	N.A.	100.00
10-90	3895.73	N.A.	97.00
20-40	1238.16	N.A.	30.80
20-50	1980.22	N.A.	49.30
40-70	1993.98	N.A.	49.60
60-80	807.54	N.A.	20.10
70-80	258.54	N.A.	6.40
80-90	51.05	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	4017.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	121.79
10-20	354.00
20-30	550.83
30-40	687.33
40-50	742.06
50-60	702.91
60-70	549.01
70-80	258.54
80-90	51.05
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-L40-830-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-L40-830-DIM-UNV_.IES

UGR TABLE - CORRECTED

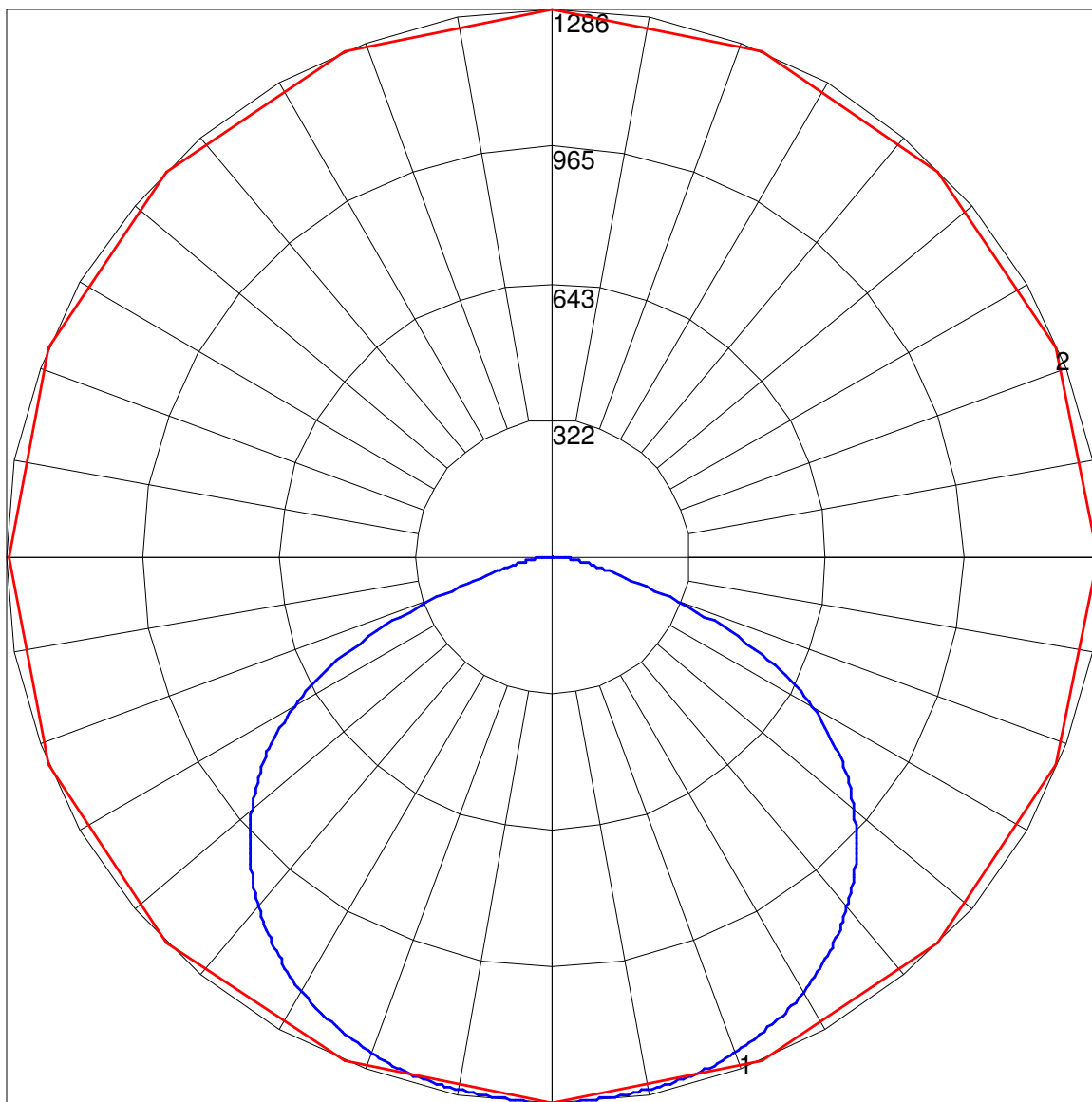
Reflectances

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	14.5	16.2	14.9	16.5	16.8	15.1	16.8	15.5	17.1	17.4
	3H	16.5	18.0	16.9	18.3	18.7	16.5	18.0	16.9	18.3	18.7
	4H	17.2	18.6	17.6	19.0	19.4	16.6	18.1	17.0	18.4	18.8
	6H	17.7	19.1	18.2	19.4	19.8	16.7	18.0	17.1	18.4	18.8
	8H	17.9	19.1	18.3	19.5	19.9	16.7	18.0	17.1	18.4	18.8
	12H	17.9	19.2	18.4	19.5	20.0	16.7	17.9	17.1	18.3	18.7
4H	2H	15.3	16.7	15.7	17.1	17.5	15.8	17.2	16.2	17.5	17.9
	3H	17.5	18.7	17.9	19.1	19.5	17.3	18.5	17.7	18.9	19.3
	4H	18.4	19.5	18.8	19.9	20.3	17.6	18.6	18.0	19.0	19.5
	6H	19.1	20.0	19.5	20.4	20.9	17.7	18.6	18.1	19.0	19.5
	8H	19.2	20.1	19.7	20.5	21.0	17.7	18.5	18.1	19.0	19.5
	12H	19.3	20.1	19.8	20.6	21.1	17.7	18.5	18.2	18.9	19.4
8H	4H	18.6	19.5	19.1	19.9	20.4	17.8	18.7	18.3	19.1	19.6
	6H	19.3	20.1	19.8	20.6	21.0	18.0	18.7	18.4	19.2	19.6
	8H	19.6	20.2	20.1	20.7	21.2	18.0	18.6	18.5	19.1	19.6
	12H	19.7	20.3	20.2	20.8	21.3	18.0	18.6	18.5	19.1	19.6
12H	4H	18.6	19.4	19.1	19.9	20.3	17.9	18.6	18.3	19.1	19.6
	6H	19.4	20.0	19.9	20.5	21.0	18.0	18.7	18.5	19.1	19.7
	8H	19.6	20.2	20.1	20.7	21.2	18.1	18.6	18.6	19.1	19.7

Maximum UGR = 21.3

POLAR GRAPH



Maximum Candela = 1286.094 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.)