



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-24-L40-827-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-L40-827-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	3936
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
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	1796	1921	1999
55	1766	1955	2022
65	1722	1953	1798
75	1546	1331	747
85	1043	545	453

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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	1258.074	1258.074	1258.074	1258.074	1258.074
0.5	1257.055	1258.074	1257.055	1259.094	1260.113
1.0	1256.546	1257.565	1256.546	1258.584	1260.113
1.5	1256.546	1257.565	1256.036	1258.584	1259.603
2.0	1256.036	1257.055	1256.036	1258.074	1259.094
2.5	1256.036	1256.546	1255.527	1257.565	1258.584
3.0	1255.527	1256.036	1254.508	1256.546	1258.074
3.5	1255.017	1255.527	1253.998	1256.036	1257.055
4.0	1255.017	1255.017	1252.979	1255.527	1256.546
4.5	1253.998	1253.998	1252.469	1255.017	1256.036
5.0	1253.489	1253.489	1251.450	1253.998	1255.017
5.5	1252.979	1252.469	1250.941	1253.489	1254.508
6.0	1251.960	1251.450	1249.922	1252.979	1253.998
6.5	1250.941	1249.922	1248.903	1251.960	1253.489
7.0	1249.922	1248.903	1248.393	1251.450	1252.979
7.5	1248.903	1247.884	1246.864	1250.431	1251.960
8.0	1247.374	1246.355	1245.845	1249.922	1251.450
8.5	1246.355	1244.826	1244.826	1248.903	1250.941
9.0	1244.826	1243.807	1243.807	1248.393	1250.431
9.5	1243.298	1242.278	1242.788	1247.374	1249.412
10.0	1241.259	1240.750	1241.259	1246.355	1248.903
10.5	1240.240	1238.712	1240.240	1245.845	1248.393
11.0	1238.202	1237.183	1238.712	1244.826	1247.374
11.5	1236.164	1235.145	1237.183	1243.807	1246.355
12.0	1234.126	1233.107	1235.654	1242.788	1245.845
12.5	1232.088	1231.068	1234.126	1241.769	1244.317
13.0	1229.540	1229.030	1232.597	1240.750	1243.807
13.5	1227.502	1226.992	1231.068	1239.221	1242.788
14.0	1224.954	1224.444	1229.030	1237.693	1241.769
14.5	1221.897	1222.406	1226.992	1236.164	1240.750
15.0	1219.858	1219.858	1224.954	1235.145	1239.221
15.5	1216.801	1216.801	1222.916	1233.107	1238.202
16.0	1214.253	1214.253	1220.877	1231.578	1236.164
16.5	1211.706	1211.706	1218.839	1229.540	1234.635
17.0	1208.648	1208.648	1216.292	1227.502	1233.107
17.5	1205.591	1206.101	1213.744	1225.463	1231.068
18.0	1202.534	1203.043	1211.706	1223.425	1229.030
18.5	1199.476	1200.496	1209.158	1220.877	1226.482
19.0	1195.910	1197.438	1206.610	1218.839	1223.935
19.5	1192.852	1193.871	1204.062	1216.292	1221.387
20.0	1189.285	1190.814	1201.515	1213.744	1218.839
20.5	1185.719	1187.757	1198.457	1211.196	1216.292
21.0	1182.152	1184.190	1195.400	1208.648	1213.234
21.5	1178.075	1180.623	1192.343	1205.591	1210.686
22.0	1174.509	1177.056	1189.285	1203.043	1208.139
22.5	1170.432	1173.489	1186.228	1199.986	1205.591
23.0	1166.865	1169.923	1183.171	1197.438	1203.043
23.5	1162.279	1165.846	1179.604	1194.381	1199.986
24.0	1157.693	1161.770	1176.037	1191.324	1197.438
24.5	1153.617	1157.693	1172.470	1188.776	1194.890
25.0	1149.031	1153.617	1169.413	1185.719	1191.833
25.5	1144.445	1149.031	1165.337	1182.661	1189.285
26.0	1139.859	1144.445	1161.770	1179.604	1186.738
26.5	1134.764	1139.859	1158.203	1176.547	1183.680

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CANDELA TABULATION - (Cont.)

27.0	1129.668	1135.273	1154.127	1173.489	1180.623
27.5	1124.573	1130.178	1150.560	1169.923	1177.566
28.0	1118.968	1125.592	1146.483	1166.356	1174.509
28.5	1113.872	1120.496	1142.407	1162.789	1170.942
29.0	1108.267	1115.401	1137.821	1158.713	1167.375
29.5	1102.662	1110.306	1133.745	1154.636	1163.299
30.0	1097.057	1105.210	1129.159	1150.560	1159.222
30.5	1090.943	1099.605	1124.573	1146.483	1155.146
31.0	1085.338	1094.510	1119.477	1141.897	1150.560
31.5	1079.733	1088.904	1114.891	1137.312	1145.974
32.0	1073.618	1083.809	1109.796	1132.726	1141.388
32.5	1067.503	1078.204	1104.700	1127.630	1136.802
33.0	1061.898	1072.089	1099.605	1123.044	1131.707
33.5	1055.274	1066.484	1094.510	1117.949	1127.121
34.0	1049.160	1060.370	1088.904	1112.853	1122.025
34.5	1042.536	1054.765	1083.299	1107.758	1116.930
35.0	1035.911	1048.650	1078.204	1102.662	1111.834
35.5	1029.797	1042.536	1072.599	1097.567	1106.739
36.0	1022.663	1036.421	1066.994	1091.962	1101.643
36.5	1015.530	1030.306	1060.879	1086.866	1096.038
37.0	1008.396	1023.682	1055.274	1081.261	1090.433
37.5	1001.772	1017.568	1049.160	1075.656	1084.828
38.0	994.638	1010.434	1043.555	1069.542	1079.223
38.5	987.504	1003.810	1037.440	1063.937	1073.618
39.0	980.371	997.186	1030.816	1057.822	1067.503
39.5	973.237	990.562	1024.701	1051.707	1061.389
40.0	965.594	983.938	1018.587	1045.593	1055.274
40.5	958.460	976.294	1011.963	1038.969	1049.160
41.0	950.817	969.161	1005.339	1032.345	1042.536
41.5	943.174	962.027	998.205	1026.230	1035.911
42.0	935.530	954.893	991.581	1019.096	1029.287
42.5	927.887	947.250	984.447	1012.472	1022.154
43.0	919.734	939.607	977.313	1005.848	1015.530
43.5	911.582	931.964	970.180	998.714	1008.396
44.0	903.429	924.320	963.046	991.581	1001.262
44.5	895.276	916.677	955.403	983.938	994.129
45.0	886.614	908.524	948.269	976.804	986.995
45.5	878.461	900.881	941.136	969.161	979.352
46.0	869.799	892.728	933.492	961.517	971.199
46.5	861.136	884.576	925.849	953.874	963.556
47.0	851.965	876.423	917.696	945.721	955.403
47.5	843.302	868.270	910.053	938.078	947.760
48.0	834.640	860.117	901.900	929.925	939.097
48.5	825.468	852.474	894.257	922.282	930.945
49.0	816.806	843.812	886.104	914.129	922.282
49.5	808.143	835.659	877.952	905.467	913.620
50.0	799.481	827.506	869.799	896.805	905.467
50.5	790.309	819.353	861.646	888.142	896.805
51.0	781.647	810.691	852.984	879.480	887.633
51.5	772.475	802.029	844.831	870.818	878.461
52.0	763.303	793.367	836.169	861.646	869.289
52.5	754.131	784.704	827.506	852.474	860.117
53.0	744.959	776.042	818.844	843.302	850.436
53.5	735.788	767.380	810.182	834.130	840.245
54.0	726.616	758.717	801.010	824.449	830.054
54.5	716.934	750.055	792.347	814.768	819.863

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55.0	707.253	741.393	783.176	804.577	809.672
55.5	698.081	732.221	773.494	794.386	798.972
56.0	688.400	723.049	764.322	783.685	788.271
56.5	678.718	713.877	754.641	773.494	777.061
57.0	669.037	704.705	744.959	762.284	765.341
57.5	658.846	695.533	735.278	751.584	753.112
58.0	649.164	685.852	725.597	740.374	741.393
58.5	639.483	676.680	715.406	729.163	728.654
59.0	629.802	667.508	705.215	717.444	716.425
59.5	620.120	658.336	695.533	705.215	703.686
60.0	609.929	649.164	685.342	693.495	689.928
60.5	600.248	639.993	675.151	681.266	676.680
61.0	590.057	630.311	665.470	669.037	662.413
61.5	580.375	621.139	655.279	656.298	648.145
62.0	570.184	611.458	644.578	643.559	632.859
62.5	559.993	602.286	633.368	629.802	617.572
63.0	549.802	592.605	622.668	616.044	601.776
63.5	539.612	582.414	611.458	601.776	584.961
64.0	529.421	572.732	600.248	586.490	567.637
64.5	518.720	563.051	588.019	571.204	549.802
65.0	508.070	552.860	576.299	554.388	530.440
65.5	497.319	542.669	564.070	536.554	510.058
66.0	486.211	531.968	550.822	518.211	488.606
66.5	475.001	521.268	537.573	499.612	466.899
67.0	463.893	510.058	524.325	479.383	444.173
67.5	452.479	499.306	510.058	459.052	421.294
68.0	440.912	488.249	495.077	437.855	399.639
68.5	429.345	476.937	479.892	416.607	377.881
69.0	417.524	465.472	464.198	395.460	354.544
69.5	406.518	454.058	448.148	374.365	330.901
70.0	396.327	442.543	431.689	351.741	308.124
70.5	386.492	430.721	415.689	329.117	285.907
71.0	374.620	419.154	398.721	306.748	264.710
71.5	362.493	409.065	381.397	284.685	244.685
72.0	350.518	397.142	363.614	263.487	225.220
72.5	338.544	386.594	343.486	242.953	206.571
73.0	326.468	374.926	323.512	223.845	189.756
73.5	314.850	362.645	302.570	206.163	174.367
74.0	303.130	350.263	281.984	189.297	160.253
74.5	291.462	337.474	261.143	173.654	147.208
75.0	279.436	324.582	240.456	159.183	135.030
75.5	267.869	311.334	220.532	145.782	124.177
76.0	256.710	297.780	201.221	133.604	113.986
76.5	244.991	284.379	183.081	122.546	104.865
77.0	233.679	270.468	166.367	112.406	96.559
77.5	221.959	256.507	150.979	103.336	88.967
78.0	210.749	242.137	136.763	95.235	82.394
78.5	199.488	226.953	123.922	87.642	76.279
79.0	188.227	211.768	112.610	80.712	70.471
79.5	177.119	196.329	102.215	74.445	65.375
80.0	166.215	180.584	92.840	68.687	60.840
80.5	155.259	164.482	84.381	63.541	56.713
81.0	144.100	148.686	76.585	58.751	52.942
81.5	133.145	132.890	69.451	54.420	49.273
82.0	122.495	117.757	63.031	50.343	45.554
82.5	111.948	103.897	57.222	46.369	42.038

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CANDELA TABULATION - (Cont.)

83.0	101.196	91.056	51.872	42.292	38.624
83.5	90.852	79.897	47.031	38.573	35.516
84.0	80.865	69.961	42.292	35.057	32.611
84.5	71.846	61.146	37.656	31.694	29.910
85.0	63.490	53.248	33.172	28.688	27.567
85.5	55.846	46.012	28.993	26.038	25.732
86.0	47.999	39.337	25.121	23.847	24.051
86.5	40.305	33.121	21.605	21.605	21.860
87.0	32.662	27.057	18.599	18.904	18.649
87.5	25.528	21.350	15.694	15.337	15.083
88.0	18.955	16.102	12.280	12.331	12.739
88.5	13.095	11.261	8.815	9.783	9.936
89.0	8.153	7.032	5.911	6.013	5.962
89.5	3.873	3.618	2.803	2.803	2.599
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-L40-827-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-L40-827-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-L40-827-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	466.18	N.A.	11.80
0-30	1005.88	N.A.	25.60
0-40	1679.32	N.A.	42.70
0-60	3095.11	N.A.	78.60
0-80	3886.33	N.A.	98.70
0-90	3936.35	N.A.	100.00
10-90	3817.03	N.A.	97.00
20-40	1213.15	N.A.	30.80
20-50	1940.22	N.A.	49.30
40-70	1953.7	N.A.	49.60
60-80	791.23	N.A.	20.10
70-80	253.31	N.A.	6.40
80-90	50.02	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	3936.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	119.33
10-20	346.85
20-30	539.71
30-40	673.44
40-50	727.07
50-60	688.71
60-70	537.91
70-80	253.31
80-90	50.02
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-L40-827-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-L40-827-DIM-UNV_.IES

UGR TABLE - CORRECTED

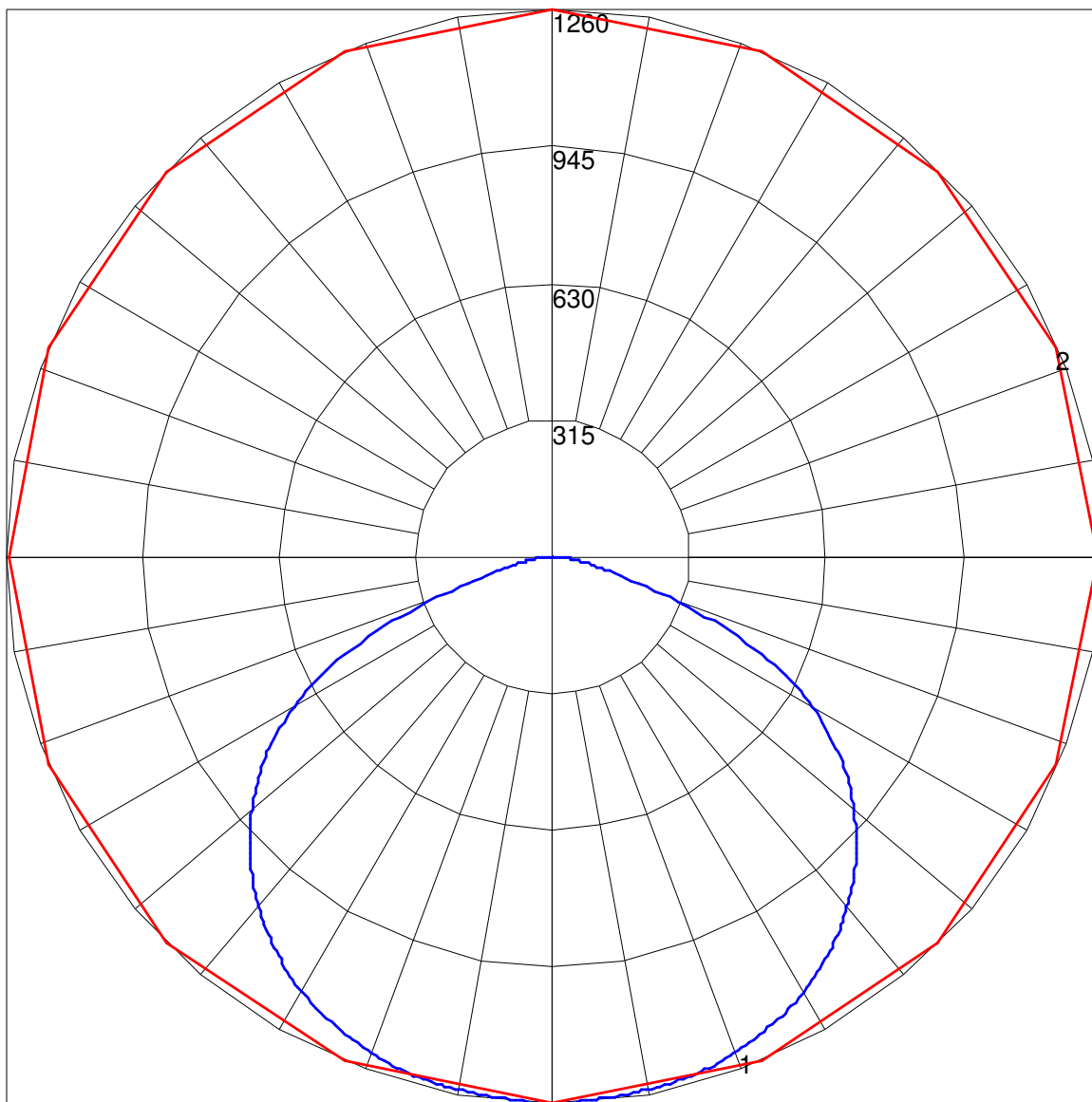
Reflectances

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	18.0	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	17.6	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 = 1260.113 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.)