



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-22-L50-940-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GENERATED FROM 15729805.02
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 2025-04-25
 [TESTDATE] 3/21/2025
 [MANUFAC] WILLIAMS INDOOR
 [MORE] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] BAR-22-L50-940-DIM-UNV_
 [LUMINAIRE] Recessed 2 x 2 Indirect LED luminaire
 [MORE] with centered LED rail & white painted housing
 [LAMP] 56 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	4225
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	38.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.38
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 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	3841	4179	4436
55	3732	4257	4529
65	3544	4239	4147
75	2971	3102	1714
85	2108	1809	1012

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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	1372.547	1372.547	1372.547	1372.547	1372.547
0.5	1371.447	1374.746	1372.547	1371.447	1371.447
1.0	1370.347	1374.746	1372.547	1371.447	1371.447
1.5	1370.347	1373.646	1372.547	1370.347	1371.447
2.0	1370.347	1373.646	1371.447	1370.347	1370.347
2.5	1370.347	1373.646	1370.347	1369.247	1369.247
3.0	1369.247	1372.547	1369.247	1368.147	1369.247
3.5	1368.147	1371.447	1368.147	1368.147	1368.147
4.0	1367.048	1370.347	1368.147	1367.048	1367.048
4.5	1365.948	1369.247	1365.948	1365.948	1365.948
5.0	1364.848	1367.048	1364.848	1364.848	1365.948
5.5	1363.748	1365.948	1363.748	1363.748	1364.848
6.0	1361.549	1364.848	1362.648	1362.648	1363.748
6.5	1360.449	1362.648	1361.549	1362.648	1362.648
7.0	1359.349	1361.549	1360.449	1361.549	1362.648
7.5	1357.150	1359.349	1358.249	1360.449	1361.549
8.0	1356.050	1358.249	1357.150	1359.349	1360.449
8.5	1353.850	1356.050	1356.050	1358.249	1359.349
9.0	1351.651	1353.850	1353.850	1357.150	1359.349
9.5	1349.451	1351.651	1352.750	1356.050	1358.249
10.0	1348.351	1350.551	1351.651	1354.950	1357.150
10.5	1346.152	1348.351	1349.451	1353.850	1357.150
11.0	1343.952	1346.152	1348.351	1352.750	1356.050
11.5	1341.752	1343.952	1346.152	1351.651	1354.950
12.0	1339.553	1341.752	1345.052	1350.551	1353.850
12.5	1337.353	1339.553	1342.852	1349.451	1353.850
13.0	1334.054	1337.353	1341.752	1348.351	1352.750
13.5	1331.854	1335.154	1339.553	1347.251	1351.651
14.0	1328.555	1331.854	1337.353	1346.152	1350.551
14.5	1326.355	1329.655	1335.154	1343.952	1349.451
15.0	1323.056	1326.355	1332.954	1342.852	1348.351
15.5	1319.756	1323.056	1330.754	1340.653	1346.152
16.0	1316.457	1319.756	1328.555	1338.453	1345.052
16.5	1313.158	1316.457	1325.255	1337.353	1342.852
17.0	1308.758	1313.158	1323.056	1334.054	1341.752
17.5	1305.459	1309.858	1319.756	1331.854	1338.453
18.0	1301.060	1305.459	1316.457	1329.655	1336.253
18.5	1296.661	1301.060	1313.158	1326.355	1334.054
19.0	1292.261	1297.760	1309.858	1324.156	1331.854
19.5	1288.962	1293.361	1306.559	1320.856	1328.555
20.0	1283.463	1288.962	1303.259	1318.657	1326.355
20.5	1279.064	1284.563	1298.860	1315.357	1324.156
21.0	1274.665	1280.164	1295.561	1312.058	1320.856
21.5	1270.266	1275.765	1291.162	1308.758	1317.557
22.0	1264.767	1271.365	1286.763	1305.459	1314.257
22.5	1259.268	1265.866	1283.463	1302.160	1310.958
23.0	1254.868	1261.467	1279.064	1298.860	1308.758
23.5	1249.369	1257.068	1275.765	1295.561	1305.459
24.0	1244.970	1252.669	1271.365	1292.261	1302.160
24.5	1238.371	1247.170	1268.066	1288.962	1299.960
25.0	1233.972	1241.671	1263.667	1285.663	1296.661
25.5	1228.473	1237.272	1260.367	1282.363	1294.461
26.0	1222.974	1231.773	1255.968	1279.064	1291.162
26.5	1217.475	1227.373	1251.569	1275.765	1288.962

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CANDELA TABULATION - (Cont.)

27.0	1210.877	1221.874	1247.170	1272.465	1285.663
27.5	1205.378	1216.375	1243.870	1269.166	1282.363
28.0	1199.879	1210.877	1239.471	1264.767	1277.964
28.5	1193.280	1205.378	1233.972	1260.367	1274.665
29.0	1186.681	1198.779	1229.573	1255.968	1270.266
29.5	1181.182	1193.280	1224.074	1251.569	1265.866
30.0	1174.583	1187.781	1218.575	1247.170	1261.467
30.5	1167.984	1181.182	1213.076	1241.671	1257.068
31.0	1161.386	1175.683	1207.577	1237.272	1251.569
31.5	1153.687	1169.084	1202.078	1231.773	1247.170
32.0	1147.088	1162.485	1195.479	1226.274	1241.671
32.5	1140.489	1155.887	1189.980	1220.775	1236.172
33.0	1132.791	1148.188	1183.382	1215.276	1230.673
33.5	1125.092	1141.589	1177.883	1209.777	1225.174
34.0	1117.394	1133.891	1171.284	1203.178	1219.675
34.5	1109.695	1127.292	1164.685	1197.679	1214.176
35.0	1101.997	1119.593	1158.086	1192.180	1208.677
35.5	1094.408	1112.995	1151.487	1186.681	1203.178
36.0	1086.709	1105.296	1144.889	1180.082	1197.679
36.5	1078.571	1097.927	1139.390	1174.583	1192.180
37.0	1070.652	1090.449	1131.691	1167.984	1186.681
37.5	1062.294	1082.860	1125.092	1162.485	1180.082
38.0	1053.716	1075.272	1118.494	1155.887	1173.483
38.5	1045.247	1067.243	1110.795	1149.288	1167.984
39.0	1036.669	1059.434	1104.196	1142.689	1161.386
39.5	1028.090	1051.516	1096.828	1136.090	1153.687
40.0	1019.512	1043.157	1089.239	1128.392	1147.088
40.5	1010.713	1035.019	1081.540	1120.693	1140.489
41.0	1001.365	1026.661	1074.282	1114.094	1132.791
41.5	992.677	1018.192	1066.473	1106.396	1126.192
42.0	983.548	1009.614	1058.555	1098.587	1118.494
42.5	974.640	1001.035	1050.416	1090.999	1110.795
43.0	965.402	992.567	1042.498	1083.410	1103.096
43.5	956.164	983.548	1034.579	1075.711	1095.948
44.0	947.145	974.530	1026.331	1067.793	1088.029
44.5	937.907	965.732	1018.082	1059.984	1080.111
45.0	928.229	956.823	1009.724	1051.956	1071.972
45.5	918.990	947.695	1001.365	1043.817	1063.724
46.0	909.422	938.787	992.787	1035.679	1055.475
46.5	899.964	929.548	984.208	1027.320	1047.557
47.0	890.066	920.310	975.520	1018.852	1039.308
47.5	879.838	911.072	966.942	1010.054	1030.510
48.0	869.939	901.834	958.033	1001.255	1022.041
48.5	863.121	892.375	949.125	992.567	1012.803
49.0	859.601	883.357	939.887	983.658	1004.335
49.5	849.483	875.768	930.868	974.970	995.206
50.0	839.145	867.740	921.630	965.732	985.968
50.5	828.917	860.591	912.392	956.274	976.840
51.0	818.249	851.463	903.153	946.815	967.491
51.5	807.801	841.785	893.805	937.247	957.483
52.0	797.133	833.976	885.447	927.679	947.695
52.5	786.575	824.298	877.748	918.001	937.687
53.0	775.687	814.290	868.510	907.662	927.679
53.5	764.579	804.062	861.031	897.544	916.901
54.0	753.471	793.833	852.783	887.096	906.013
54.5	742.363	783.605	842.664	878.958	895.345

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CANDELA TABULATION - (Cont.)

55.0	731.585	773.267	834.306	870.379	887.646
55.5	720.587	763.039	824.518	859.601	878.078
56.0	709.589	752.481	814.070	849.043	866.200
56.5	698.481	741.923	803.292	841.345	854.102
57.0	687.263	731.035	792.404	830.127	841.785
57.5	676.045	720.367	781.516	818.359	833.976
58.0	665.047	709.809	770.738	806.591	821.108
58.5	654.159	699.361	759.850	794.713	808.241
59.0	642.941	688.913	748.852	782.286	794.933
59.5	631.833	678.025	737.634	769.748	781.516
60.0	620.505	667.467	726.526	756.880	767.438
60.5	609.398	656.799	715.418	744.343	753.031
61.0	598.620	646.351	704.310	731.365	738.514
61.5	587.622	636.233	693.532	718.387	723.776
62.0	576.954	626.224	682.424	705.190	708.819
62.5	566.066	615.886	671.206	691.222	692.872
63.0	555.397	605.548	659.988	677.035	676.155
63.5	544.619	595.430	648.440	662.188	658.119
64.0	533.731	585.202	636.782	646.571	639.312
64.5	523.063	574.644	624.685	630.184	619.736
65.0	511.846	564.086	612.257	612.807	598.949
65.5	500.298	553.088	599.499	594.550	576.954
66.0	488.640	541.650	585.752	575.084	553.528
66.5	476.872	529.992	571.345	554.518	528.452
67.0	464.334	517.894	556.717	533.182	503.707
67.5	451.907	505.577	541.650	511.516	477.752
68.0	439.259	493.039	526.253	488.640	451.687
68.5	426.721	480.281	510.196	465.434	424.962
69.0	413.194	467.304	493.589	441.568	398.676
69.5	399.886	454.326	476.872	417.373	372.061
70.0	386.909	441.239	460.155	393.177	346.766
70.5	373.821	428.041	442.558	370.082	321.911
71.0	361.173	415.063	424.852	346.546	297.935
71.5	348.636	402.086	406.595	323.890	274.949
72.0	336.098	389.108	388.448	302.114	253.393
72.5	323.450	375.911	369.642	281.218	232.827
73.0	311.133	362.823	350.065	261.092	214.240
73.5	298.925	349.735	330.709	242.285	196.534
74.0	286.937	336.758	311.792	224.249	180.257
74.5	274.729	323.230	292.986	207.642	165.299
75.0	262.742	309.923	274.399	192.464	151.552
75.5	251.194	296.285	256.363	178.167	139.234
76.0	239.646	282.868	239.206	164.530	127.356
76.5	228.208	269.450	222.929	152.322	117.128
77.0	217.100	256.143	207.532	141.214	107.890
77.5	205.992	243.055	193.014	131.096	99.422
78.0	194.994	229.858	179.707	121.748	91.833
78.5	184.656	217.320	167.279	113.059	84.794
79.0	174.758	205.112	155.621	104.921	78.416
79.5	165.190	193.344	144.843	97.662	72.697
80.0	155.951	182.346	134.725	90.843	67.528
80.5	146.383	171.898	125.267	84.354	62.908
81.0	136.815	161.560	116.359	78.416	58.509
81.5	127.686	151.222	107.780	72.697	54.660
82.0	118.338	141.214	99.532	67.418	50.591
82.5	108.990	130.986	91.613	62.029	46.521

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CANDELA TABULATION - (Cont.)

83.0	99.422	120.538	83.915	56.530	42.782
83.5	90.293	110.310	76.326	51.361	39.373
84.0	81.055	100.082	68.957	46.411	36.073
84.5	71.927	89.413	61.479	41.462	32.994
85.0	62.798	78.745	53.890	36.843	30.134
85.5	54.220	67.967	46.521	32.554	27.935
86.0	45.752	57.299	39.373	28.815	26.065
86.5	37.613	46.741	32.334	25.295	23.866
87.0	30.244	36.733	25.735	21.556	20.896
87.5	23.536	27.495	20.016	17.267	16.607
88.0	17.707	19.466	14.627	13.857	14.407
88.5	12.318	13.088	10.668	11.108	11.878
89.0	7.589	8.468	7.479	7.369	7.589
89.5	6.269	6.489	6.379	7.369	7.259
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-22-L50-940-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-22-L50-940-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-22-L50-940-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	506.81	N.A.	12.00
0-30	1090.33	N.A.	25.80
0-40	1814.31	N.A.	42.90
0-60	3322.37	N.A.	78.60
0-80	4162.37	N.A.	98.50
0-90	4224.86	N.A.	100.00
10-90	4094.93	N.A.	96.90
20-40	1307.5	N.A.	30.90
20-50	2082.72	N.A.	49.30
40-70	2079.3	N.A.	49.20
60-80	840.00	N.A.	19.90
70-80	268.77	N.A.	6.40
80-90	62.49	N.A.	1.50
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	4224.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	129.93
10-20	376.88
20-30	583.52
30-40	723.97
40-50	775.23
50-60	732.84
60-70	571.24
70-80	268.77
80-90	62.49
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-22-L50-940-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	97	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	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	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	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L50-940-DIM-UNV_.IES

UGR TABLE - CORRECTED

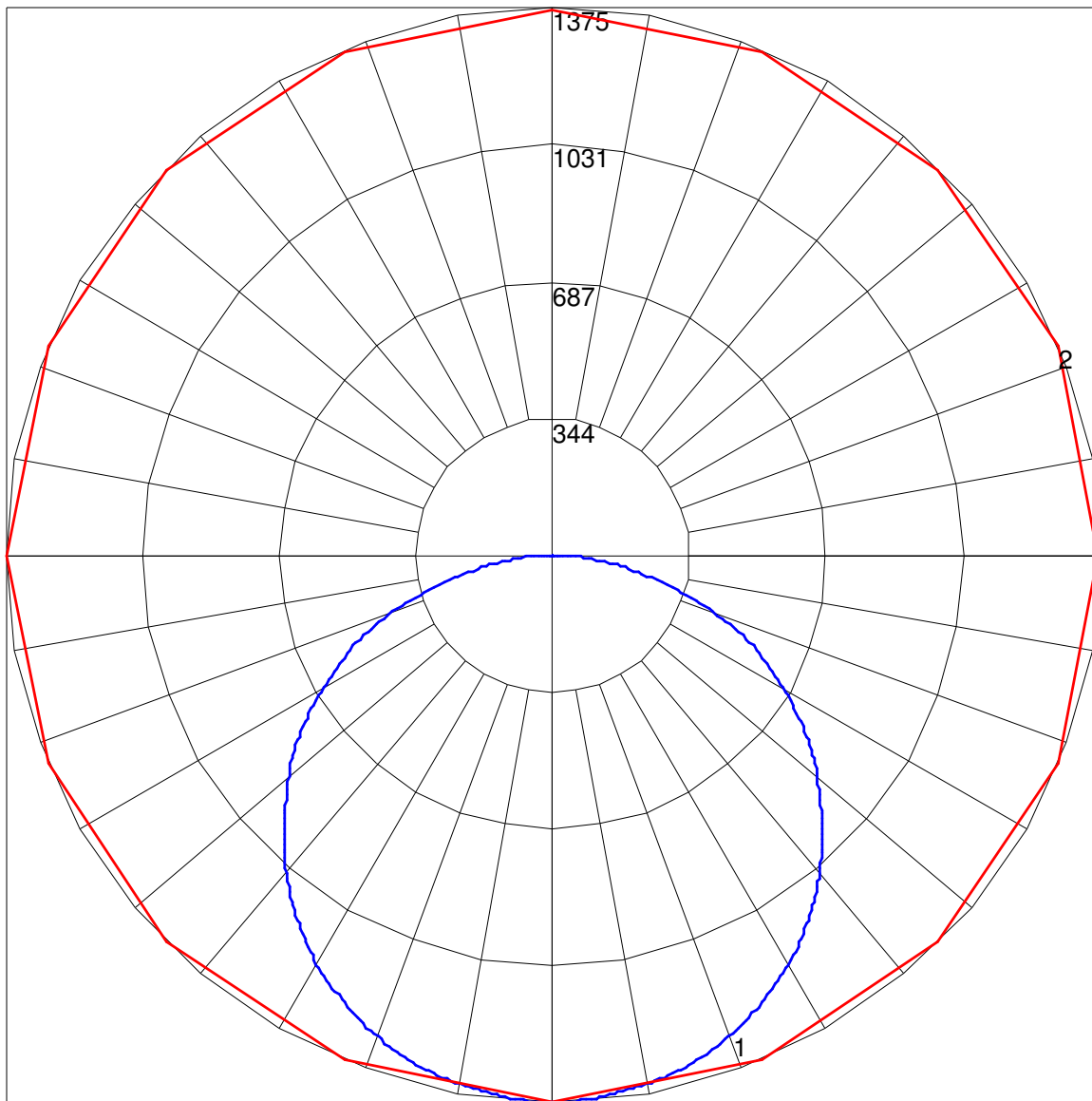
Reflectances

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	16.9	18.6	17.3	18.9	19.2	17.9	19.6	18.3	19.9	20.2
	3H	18.8	20.3	19.2	20.6	21.0	19.3	20.9	19.7	21.2	21.5
	4H	19.5	20.9	19.9	21.2	21.6	19.6	21.0	20.0	21.3	21.7
	6H	19.9	21.2	20.3	21.6	22.0	19.6	20.9	20.0	21.3	21.7
	8H	20.1	21.3	20.5	21.7	22.1	19.6	20.9	20.1	21.3	21.7
	12H	20.1	21.3	20.5	21.7	22.1	19.6	20.8	20.0	21.2	21.6
4H	2H	17.8	19.2	18.2	19.6	19.9	18.6	20.0	19.0	20.3	20.7
	3H	19.9	21.1	20.3	21.5	21.9	20.2	21.4	20.6	21.8	22.2
	4H	20.7	21.7	21.1	22.1	22.6	20.4	21.5	20.9	21.9	22.4
	6H	21.2	22.2	21.7	22.6	23.1	20.6	21.5	21.0	21.9	22.4
	8H	21.4	22.3	21.9	22.7	23.2	20.6	21.5	21.0	21.9	22.4
	12H	21.5	22.3	22.0	22.8	23.3	20.6	21.4	21.1	21.9	22.3
8H	4H	20.9	21.8	21.4	22.2	22.7	20.7	21.6	21.2	22.0	22.5
	6H	21.6	22.3	22.1	22.8	23.3	20.9	21.6	21.4	22.1	22.6
	8H	21.9	22.5	22.4	23.0	23.5	20.9	21.6	21.5	22.1	22.6
	12H	22.1	22.7	22.6	23.1	23.7	21.0	21.6	21.5	22.0	22.6
12H	4H	20.9	21.7	21.4	22.2	22.6	20.7	21.5	21.2	22.0	22.5
	6H	21.6	22.3	22.2	22.7	23.3	21.0	21.6	21.5	22.1	22.6
	8H	21.9	22.5	22.4	23.0	23.6	21.0	21.6	21.5	22.1	22.6

Maximum UGR = 23.7

POLAR GRAPH



Maximum Candela = 1374.746 Located At Horizontal Angle = 22.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)