



IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L50-935-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-L50-935-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	4127
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
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	3752	4081	4333
55	3646	4158	4423
65	3462	4141	4051
75	2902	3030	1674
85	2059	1767	988

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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	1340.626	1340.626	1340.626	1340.626	1340.626
0.5	1339.552	1342.775	1340.626	1339.552	1339.552
1.0	1338.478	1342.775	1340.626	1339.552	1339.552
1.5	1338.478	1341.701	1340.626	1338.478	1339.552
2.0	1338.478	1341.701	1339.552	1338.478	1338.478
2.5	1338.478	1341.701	1338.478	1337.404	1337.404
3.0	1337.404	1340.626	1337.404	1336.330	1337.404
3.5	1336.330	1339.552	1336.330	1336.330	1336.330
4.0	1335.255	1338.478	1336.330	1335.255	1335.255
4.5	1334.181	1337.404	1334.181	1334.181	1334.181
5.0	1333.107	1335.255	1333.107	1333.107	1334.181
5.5	1332.033	1334.181	1332.033	1332.033	1333.107
6.0	1329.884	1333.107	1330.959	1330.959	1332.033
6.5	1328.810	1330.959	1329.884	1330.959	1330.959
7.0	1327.736	1329.884	1328.810	1329.884	1330.959
7.5	1325.587	1327.736	1326.662	1328.810	1329.884
8.0	1324.513	1326.662	1325.587	1327.736	1328.810
8.5	1322.365	1324.513	1324.513	1326.662	1327.736
9.0	1320.216	1322.365	1322.365	1325.587	1327.736
9.5	1318.068	1320.216	1321.291	1324.513	1326.662
10.0	1316.994	1319.142	1320.216	1323.439	1325.587
10.5	1314.845	1316.994	1318.068	1322.365	1325.587
11.0	1312.697	1314.845	1316.994	1321.291	1324.513
11.5	1310.548	1312.697	1314.845	1320.216	1323.439
12.0	1308.400	1310.548	1313.771	1319.142	1322.365
12.5	1306.251	1308.400	1311.623	1318.068	1322.365
13.0	1303.029	1306.251	1310.548	1316.994	1321.291
13.5	1300.880	1304.103	1308.400	1315.919	1320.216
14.0	1297.658	1300.880	1306.251	1314.845	1319.142
14.5	1295.509	1298.732	1304.103	1312.697	1318.068
15.0	1292.287	1295.509	1301.955	1311.623	1316.994
15.5	1289.064	1292.287	1299.806	1309.474	1314.845
16.0	1285.841	1289.064	1297.658	1307.326	1313.771
16.5	1282.619	1285.841	1294.435	1306.251	1311.623
17.0	1278.322	1282.619	1292.287	1303.029	1310.548
17.5	1275.099	1279.396	1289.064	1300.880	1307.326
18.0	1270.802	1275.099	1285.841	1298.732	1305.177
18.5	1266.505	1270.802	1282.619	1295.509	1303.029
19.0	1262.208	1267.580	1279.396	1293.361	1300.880
19.5	1258.986	1263.283	1276.173	1290.138	1297.658
20.0	1253.615	1258.986	1272.951	1287.990	1295.509
20.5	1249.318	1254.689	1268.654	1284.767	1293.361
21.0	1245.021	1250.392	1265.431	1281.544	1290.138
21.5	1240.724	1246.095	1261.134	1278.322	1286.915
22.0	1235.353	1241.798	1256.837	1275.099	1283.693
22.5	1229.982	1236.427	1253.615	1271.876	1280.470
23.0	1225.685	1232.130	1249.318	1268.654	1278.322
23.5	1220.314	1227.833	1246.095	1265.431	1275.099
24.0	1216.017	1223.537	1241.798	1262.208	1271.876
24.5	1209.572	1218.165	1238.576	1258.986	1269.728
25.0	1205.275	1212.794	1234.279	1255.763	1266.505
25.5	1199.904	1208.497	1231.056	1252.540	1264.357
26.0	1194.533	1203.126	1226.759	1249.318	1261.134
26.5	1189.161	1198.829	1222.462	1246.095	1258.986

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CANDELA TABULATION - (Cont.)

27.0	1182.716	1193.458	1218.165	1242.872	1255.763
27.5	1177.345	1188.087	1214.943	1239.650	1252.540
28.0	1171.974	1182.716	1210.646	1235.353	1248.244
28.5	1165.529	1177.345	1205.275	1231.056	1245.021
29.0	1159.083	1170.900	1200.978	1226.759	1240.724
29.5	1153.712	1165.529	1195.607	1222.462	1236.427
30.0	1147.267	1160.158	1190.236	1218.165	1232.130
30.5	1140.822	1153.712	1184.865	1212.794	1227.833
31.0	1134.376	1148.341	1179.493	1208.497	1222.462
31.5	1126.857	1141.896	1174.122	1203.126	1218.165
32.0	1120.411	1135.450	1167.677	1197.755	1212.794
32.5	1113.966	1129.005	1162.306	1192.384	1207.423
33.0	1106.447	1121.486	1155.861	1187.013	1202.052
33.5	1098.927	1115.040	1150.490	1181.642	1196.681
34.0	1091.407	1107.521	1144.044	1175.197	1191.310
34.5	1083.888	1101.075	1137.599	1169.826	1185.939
35.0	1076.368	1093.556	1131.154	1164.454	1180.568
35.5	1068.956	1087.111	1124.708	1159.083	1175.197
36.0	1061.437	1079.591	1118.263	1152.638	1169.826
36.5	1053.487	1072.394	1112.892	1147.267	1164.454
37.0	1045.753	1065.089	1105.372	1140.822	1159.083
37.5	1037.589	1057.677	1098.927	1135.450	1152.638
38.0	1029.210	1050.265	1092.482	1129.005	1146.193
38.5	1020.939	1042.423	1084.962	1122.560	1140.822
39.0	1012.560	1034.796	1078.517	1116.115	1134.376
39.5	1004.181	1027.062	1071.320	1109.669	1126.857
40.0	995.802	1018.898	1063.907	1102.150	1120.411
40.5	987.208	1010.948	1056.388	1094.630	1113.966
41.0	978.077	1002.784	1049.298	1088.185	1106.447
41.5	969.591	994.513	1041.671	1080.665	1100.001
42.0	960.675	986.134	1033.937	1073.038	1092.482
42.5	951.974	977.755	1025.987	1065.626	1084.962
43.0	942.950	969.483	1018.253	1058.214	1077.443
43.5	933.927	960.675	1010.519	1050.695	1070.460
44.0	925.118	951.866	1002.462	1042.960	1062.726
44.5	916.095	943.273	994.405	1035.333	1054.991
45.0	906.642	934.571	986.241	1027.491	1047.042
45.5	897.618	925.655	978.077	1019.542	1038.986
46.0	888.272	916.954	969.698	1011.593	1030.929
46.5	879.034	907.931	961.319	1003.429	1023.194
47.0	869.366	898.907	952.833	995.157	1015.138
47.5	859.376	889.884	944.454	986.564	1006.544
48.0	849.708	880.860	935.753	977.970	998.273
48.5	843.048	871.622	927.052	969.483	989.249
49.0	839.610	862.813	918.028	960.782	980.978
49.5	829.727	855.401	909.220	952.296	972.062
50.0	819.630	847.560	900.196	943.273	963.038
50.5	809.640	840.577	891.173	934.034	954.122
51.0	799.220	831.661	882.149	924.796	944.991
51.5	789.015	822.208	873.019	915.450	935.216
52.0	778.595	814.581	864.854	906.105	925.655
52.5	768.282	805.128	857.335	896.651	915.880
53.0	757.647	795.352	848.311	886.554	906.105
53.5	746.798	785.362	841.007	876.671	895.577
54.0	735.948	775.372	832.950	866.466	884.942
54.5	725.098	765.382	823.067	858.517	874.522

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55.0	714.571	755.284	814.903	850.138	867.003
55.5	703.829	745.294	805.343	839.610	857.657
56.0	693.087	734.981	795.138	829.298	846.056
56.5	682.237	724.669	784.610	821.778	834.239
57.0	671.280	714.034	773.975	810.821	822.208
57.5	660.323	703.614	763.341	799.327	814.581
58.0	649.581	693.302	752.813	787.833	802.013
58.5	638.946	683.096	742.179	776.231	789.444
59.0	627.989	672.891	731.436	764.093	776.446
59.5	617.139	662.257	720.479	751.847	763.341
60.0	606.075	651.944	709.630	739.278	749.591
60.5	595.225	641.524	698.780	727.032	735.518
61.0	584.698	631.319	687.930	714.356	721.339
61.5	573.956	621.436	677.403	701.680	706.944
62.0	563.536	611.661	666.553	688.790	692.335
62.5	552.901	601.563	655.596	675.147	676.759
63.0	542.481	591.466	644.639	661.290	660.430
63.5	531.954	581.583	633.360	646.788	642.813
64.0	521.319	571.592	621.973	631.534	624.444
64.5	510.899	561.280	610.157	615.528	605.323
65.0	499.942	550.967	598.018	598.555	585.020
65.5	488.663	540.225	585.557	580.723	563.536
66.0	477.276	529.053	572.130	561.710	540.655
66.5	465.782	517.667	558.057	541.622	516.163
67.0	453.536	505.850	543.770	520.782	491.993
67.5	441.397	493.819	529.053	499.620	466.641
68.0	429.043	481.573	514.014	477.276	441.182
68.5	416.797	469.112	498.331	454.610	415.079
69.0	403.584	456.436	482.110	431.299	389.405
69.5	390.586	443.760	465.782	407.666	363.409
70.0	377.911	430.977	449.454	384.034	338.702
70.5	365.127	418.086	432.266	361.475	314.424
71.0	352.774	405.411	414.971	338.487	291.006
71.5	340.528	392.735	397.139	316.358	268.555
72.0	328.282	380.059	379.414	295.088	247.500
72.5	315.928	367.168	361.045	274.678	227.412
73.0	303.897	354.385	341.924	255.020	209.258
73.5	291.973	341.602	323.018	236.651	191.963
74.0	280.264	328.926	304.541	219.033	176.065
74.5	268.340	315.713	286.172	202.813	161.455
75.0	256.631	302.715	268.018	187.988	148.028
75.5	245.352	289.395	250.401	174.024	135.996
76.0	234.073	276.289	233.643	160.703	124.395
76.5	222.901	263.184	217.744	148.779	114.404
77.0	212.051	250.186	202.705	137.930	105.381
77.5	201.201	237.403	188.526	128.047	97.109
78.0	190.459	224.512	175.528	118.916	89.697
78.5	180.362	212.266	163.389	110.430	82.822
79.0	170.694	200.342	152.002	102.481	76.592
79.5	161.348	188.848	141.475	95.391	71.006
80.0	152.324	178.106	131.592	88.731	65.957
80.5	142.979	167.901	122.354	82.393	61.445
81.0	133.633	157.803	113.652	76.592	57.149
81.5	124.717	147.705	105.274	71.006	53.389
82.0	115.586	137.930	97.217	65.850	49.414
82.5	106.455	127.940	89.483	60.586	45.440

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CANDELA TABULATION - (Cont.)

83.0	97.109	117.735	81.963	55.215	41.787
83.5	88.193	107.744	74.551	50.166	38.457
84.0	79.170	97.754	67.354	45.332	35.234
84.5	70.254	87.334	60.049	40.498	32.227
85.0	61.338	76.914	52.637	35.986	29.434
85.5	52.959	66.387	45.440	31.797	27.285
86.0	44.688	55.967	38.457	28.145	25.459
86.5	36.738	45.654	31.582	24.707	23.311
87.0	29.541	35.879	25.137	21.055	20.410
87.5	22.988	26.855	19.551	16.865	16.221
88.0	17.295	19.014	14.287	13.535	14.072
88.5	12.031	12.783	10.420	10.850	11.602
89.0	7.412	8.271	7.305	7.197	7.412
89.5	6.123	6.338	6.230	7.197	7.090
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-L50-935-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-L50-935-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-L50-935-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	495.02	N.A.	12.00
0-30	1064.98	N.A.	25.80
0-40	1772.11	N.A.	42.90
0-60	3245.1	N.A.	78.60
0-80	4065.57	N.A.	98.50
0-90	4126.6	N.A.	100.00
10-90	3999.69	N.A.	96.90
20-40	1277.09	N.A.	30.90
20-50	2034.29	N.A.	49.30
40-70	2030.94	N.A.	49.20
60-80	820.47	N.A.	19.90
70-80	262.52	N.A.	6.40
80-90	61.03	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	4126.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	126.91
10-20	368.11
20-30	569.95
30-40	707.14
40-50	757.20
50-60	715.79
60-70	557.95
70-80	262.52
80-90	61.03
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-L50-935-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	83	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-L50-935-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

X=2H	Y=2H	16.8	18.5	17.2	18.8	19.1	UGR Viewed Endwise			
	3H	18.7	20.2	19.1	20.5	20.9	17.8	19.5	18.2	19.8
	4H	19.4	20.8	19.8	21.1	21.5	19.2	20.8	19.6	21.1
	6H	19.8	21.1	20.2	21.5	21.9	19.5	20.9	19.9	21.2
	8H	20.0	21.2	20.4	21.6	22.0	19.5	20.8	19.9	21.2
	12H	20.0	21.2	20.5	21.6	22.0	19.5	20.8	20.0	21.2

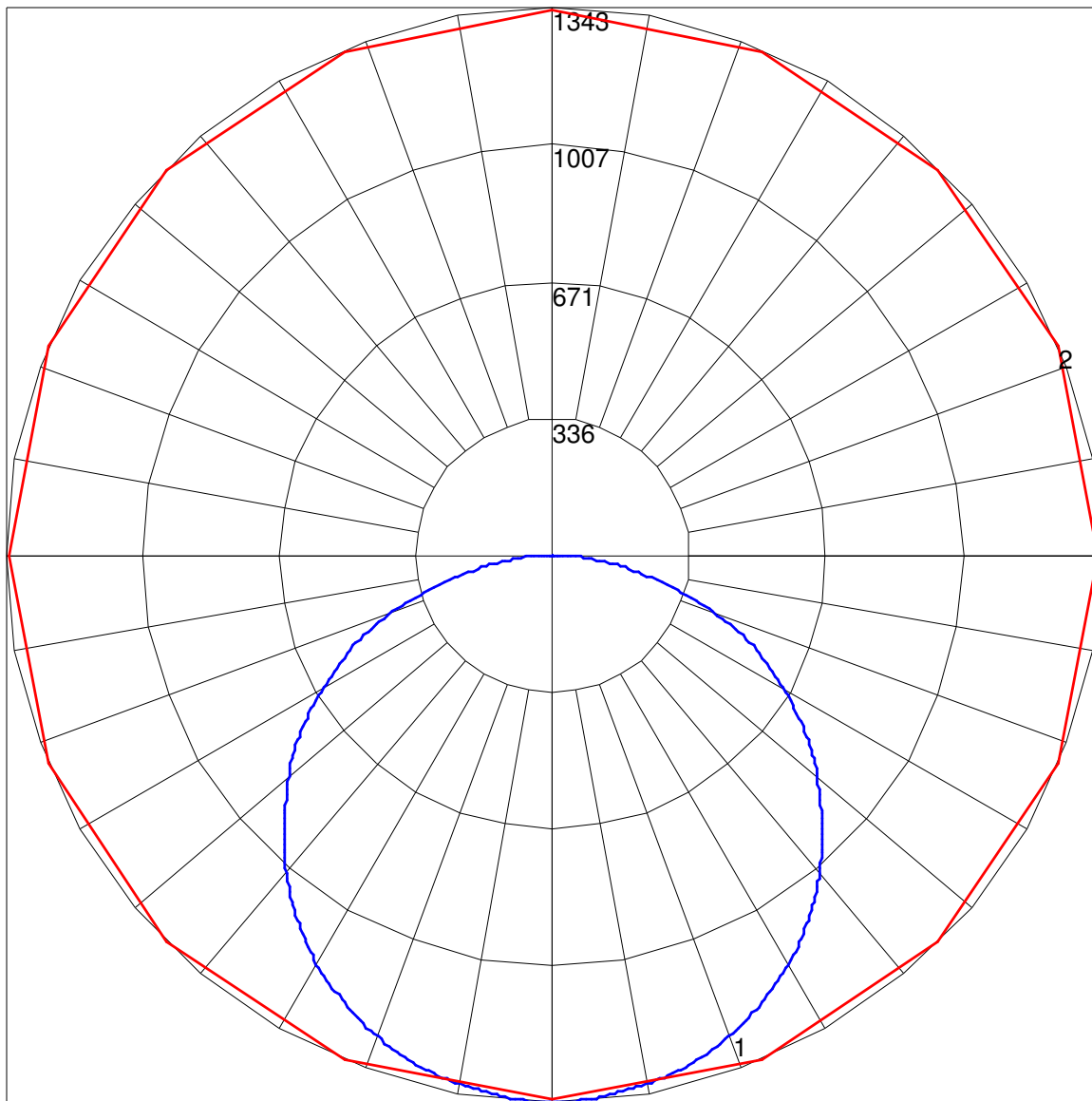
4H	2H	17.7	19.1	18.1	19.5	19.8	17.8	19.5	18.2	19.8
	3H	19.8	21.0	20.2	21.4	21.8	19.2	20.8	19.6	21.1
	4H	20.6	21.6	21.0	22.0	22.5	19.5	20.9	19.9	21.2
	6H	21.1	22.1	21.6	22.5	23.0	19.5	20.8	19.9	21.2
	8H	21.3	22.2	21.8	22.6	23.1	19.5	20.8	20.0	21.2
	12H	21.4	22.2	21.9	22.7	23.2	19.5	20.7	19.9	21.1

8H	4H	20.8	21.7	21.3	22.1	22.6	18.5	19.9	18.9	20.2
	6H	21.5	22.2	22.0	22.7	23.2	20.1	21.3	20.5	21.7
	8H	21.8	22.4	22.3	22.9	23.4	20.3	21.4	20.8	21.8
	12H	22.0	22.6	22.5	23.0	23.6	20.5	21.4	20.9	21.8

12H	4H	20.8	21.6	21.3	22.1	22.5	20.5	21.4	20.9	21.8
	6H	21.5	22.2	22.1	22.6	23.2	20.5	21.4	20.9	21.8
	8H	21.8	22.4	22.3	22.9	23.5	20.5	21.3	21.0	21.8

Maximum UGR = 23.6

POLAR GRAPH



Maximum Candela = 1342.775 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.)