



IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L50-927-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GENERATED FROM 15729805.02
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 2025-04-25
 [TEST DATE] 3/21/2025
 [MANUFAC] WILLIAMS INDOOR
 [MORE] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] BAR-22-L50-927-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	4028
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
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	3663	3984	4230
55	3559	4059	4318
65	3379	4042	3954
75	2832	2958	1634
85	2010	1725	965

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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	1308.708	1308.708	1308.708	1308.708	1308.708
0.5	1307.659	1310.805	1308.708	1307.659	1307.659
1.0	1306.610	1310.805	1308.708	1307.659	1307.659
1.5	1306.610	1309.756	1308.708	1306.610	1307.659
2.0	1306.610	1309.756	1307.659	1306.610	1306.610
2.5	1306.610	1309.756	1306.610	1305.562	1305.562
3.0	1305.562	1308.708	1305.562	1304.513	1305.562
3.5	1304.513	1307.659	1304.513	1304.513	1304.513
4.0	1303.464	1306.610	1304.513	1303.464	1303.464
4.5	1302.416	1305.562	1302.416	1302.416	1302.416
5.0	1301.367	1303.464	1301.367	1301.367	1302.416
5.5	1300.318	1302.416	1300.318	1300.318	1301.367
6.0	1298.221	1301.367	1299.270	1299.270	1300.318
6.5	1297.173	1299.270	1298.221	1299.270	1299.270
7.0	1296.124	1298.221	1297.173	1298.221	1299.270
7.5	1294.027	1296.124	1295.075	1297.173	1298.221
8.0	1292.978	1295.075	1294.027	1296.124	1297.173
8.5	1290.881	1292.978	1292.978	1295.075	1296.124
9.0	1288.783	1290.881	1290.881	1294.027	1296.124
9.5	1286.686	1288.783	1289.832	1292.978	1295.075
10.0	1285.637	1287.735	1288.783	1291.929	1294.027
10.5	1283.540	1285.637	1286.686	1290.881	1294.027
11.0	1281.443	1283.540	1285.637	1289.832	1292.978
11.5	1279.346	1281.443	1283.540	1288.783	1291.929
12.0	1277.248	1279.346	1282.492	1287.735	1290.881
12.5	1275.151	1277.248	1280.394	1286.686	1290.881
13.0	1272.005	1275.151	1279.346	1285.637	1289.832
13.5	1269.908	1273.054	1277.248	1284.589	1288.783
14.0	1266.762	1269.908	1275.151	1283.540	1287.735
14.5	1264.665	1267.811	1273.054	1281.443	1286.686
15.0	1261.519	1264.665	1270.956	1280.394	1285.637
15.5	1258.373	1261.519	1268.859	1278.297	1283.540
16.0	1255.227	1258.373	1266.762	1276.200	1282.492
16.5	1252.081	1255.227	1263.616	1275.151	1280.394
17.0	1247.886	1252.081	1261.519	1272.005	1279.346
17.5	1244.740	1248.935	1258.373	1269.908	1276.200
18.0	1240.546	1244.740	1255.227	1267.811	1274.102
18.5	1236.351	1240.546	1252.081	1264.665	1272.005
19.0	1232.157	1237.400	1248.935	1262.567	1269.908
19.5	1229.011	1233.205	1245.789	1259.421	1266.762
20.0	1223.767	1229.011	1242.643	1257.324	1264.665
20.5	1219.573	1224.816	1238.449	1254.178	1262.567
21.0	1215.378	1220.622	1235.303	1251.032	1259.421
21.5	1211.184	1216.427	1231.108	1247.886	1256.275
22.0	1205.941	1212.232	1226.913	1244.740	1253.130
22.5	1200.697	1206.989	1223.767	1241.594	1249.984
23.0	1196.503	1202.795	1219.573	1238.449	1247.886
23.5	1191.260	1198.600	1216.427	1235.303	1244.740
24.0	1187.065	1194.405	1212.232	1232.157	1241.594
24.5	1180.773	1189.162	1209.086	1229.011	1239.497
25.0	1176.579	1183.919	1204.892	1225.865	1236.351
25.5	1171.335	1179.724	1201.746	1222.719	1234.254
26.0	1166.092	1174.481	1197.551	1219.573	1231.108
26.5	1160.849	1170.287	1193.357	1216.427	1229.011

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27.0	1154.557	1165.043	1189.162	1213.281	1225.865
27.5	1149.314	1159.800	1186.016	1210.135	1222.719
28.0	1144.071	1154.557	1181.822	1205.941	1218.524
28.5	1137.779	1149.314	1176.579	1201.746	1215.378
29.0	1131.487	1143.022	1172.384	1197.551	1211.184
29.5	1126.244	1137.779	1167.141	1193.357	1206.989
30.0	1119.952	1132.535	1161.897	1189.162	1202.795
30.5	1113.660	1126.244	1156.654	1183.919	1198.600
31.0	1107.368	1121.000	1151.411	1179.724	1193.357
31.5	1100.028	1114.709	1146.168	1174.481	1189.162
32.0	1093.736	1108.417	1139.876	1169.238	1183.919
32.5	1087.444	1102.125	1134.633	1163.995	1178.676
33.0	1080.103	1094.784	1128.341	1158.752	1173.433
33.5	1072.763	1088.492	1123.098	1153.508	1168.189
34.0	1065.422	1081.152	1116.806	1147.216	1162.946
34.5	1058.082	1074.860	1110.514	1141.973	1157.703
35.0	1050.741	1067.520	1104.222	1136.730	1152.460
35.5	1043.506	1061.228	1097.930	1131.487	1147.216
36.0	1036.165	1053.887	1091.638	1125.195	1141.973
36.5	1028.405	1046.861	1086.395	1119.952	1136.730
37.0	1020.855	1039.730	1079.055	1113.660	1131.487
37.5	1012.885	1032.495	1072.763	1108.417	1125.195
38.0	1004.706	1025.259	1066.471	1102.125	1118.903
38.5	996.631	1017.604	1059.130	1095.833	1113.660
39.0	988.452	1010.159	1052.839	1089.541	1107.368
39.5	980.272	1002.608	1045.813	1083.249	1100.028
40.0	972.093	994.639	1038.577	1075.909	1093.736
40.5	963.704	986.879	1031.236	1068.568	1087.444
41.0	954.790	978.909	1024.315	1062.276	1080.103
41.5	946.506	970.835	1016.870	1054.936	1073.811
42.0	937.802	962.655	1009.320	1047.490	1066.471
42.5	929.308	954.476	1001.560	1040.255	1059.130
43.0	920.500	946.401	994.010	1033.019	1051.790
43.5	911.691	937.802	986.459	1025.679	1044.974
44.0	903.092	929.203	978.595	1018.128	1037.423
44.5	894.284	920.814	970.730	1010.683	1029.873
45.0	885.055	912.320	962.760	1003.028	1022.113
45.5	876.247	903.616	954.790	995.268	1014.248
46.0	867.124	895.122	946.611	987.508	1006.384
46.5	858.105	886.314	938.431	979.538	998.833
47.0	848.668	877.505	930.147	971.464	990.969
47.5	838.915	868.697	921.968	963.075	982.579
48.0	829.477	859.888	913.474	954.685	974.505
48.5	822.976	850.870	904.980	946.401	965.696
49.0	819.620	842.271	896.171	937.907	957.622
49.5	809.973	835.035	887.572	929.623	948.918
50.0	800.115	827.380	878.764	920.814	940.109
50.5	790.363	820.564	869.955	911.796	931.406
51.0	780.191	811.860	861.146	902.778	922.492
51.5	770.229	802.632	852.233	893.654	912.949
52.0	760.057	795.187	844.263	884.531	903.616
52.5	749.990	785.959	836.923	875.303	894.074
53.0	739.609	776.416	828.114	865.446	884.531
53.5	729.017	766.664	820.983	855.798	874.254
54.0	718.426	756.911	813.119	845.836	863.873
54.5	707.835	747.159	803.471	838.076	853.701

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55.0	697.558	737.302	795.501	829.897	846.361
55.5	687.072	727.549	786.168	819.620	837.237
56.0	676.585	717.482	776.206	809.553	825.912
56.5	665.994	707.415	765.930	802.213	814.377
57.0	655.298	697.034	755.548	791.516	802.632
57.5	644.601	686.862	745.166	780.296	795.187
58.0	634.115	676.795	734.890	769.075	782.918
58.5	623.733	666.833	724.508	757.750	770.648
59.0	613.037	656.871	714.022	745.900	757.960
59.5	602.446	646.489	703.325	733.946	745.166
60.0	591.645	636.422	692.734	721.677	731.744
60.5	581.054	626.250	682.143	709.722	718.007
61.0	570.777	616.288	671.552	697.348	704.164
61.5	560.290	606.641	661.275	684.974	690.113
62.0	550.119	597.098	650.684	672.390	675.851
62.5	539.737	587.241	639.987	659.073	660.646
63.0	529.565	577.383	629.291	645.545	644.706
63.5	519.288	567.736	618.280	631.389	627.509
64.0	508.907	557.983	607.165	616.498	609.577
64.5	498.735	547.916	595.630	600.873	590.911
65.0	488.039	537.849	583.780	584.304	571.091
65.5	477.028	527.363	571.616	566.897	550.119
66.0	465.913	516.457	558.508	548.336	527.782
66.5	454.692	505.342	544.771	528.726	503.873
67.0	442.737	493.806	530.824	508.383	480.279
67.5	430.888	482.062	516.457	487.724	455.531
68.0	418.828	470.107	501.776	465.913	430.678
68.5	406.874	457.943	486.466	443.786	405.196
69.0	393.976	445.569	470.631	421.031	380.133
69.5	381.287	433.195	454.692	397.960	354.756
70.0	368.913	420.716	438.753	374.890	330.637
70.5	356.434	408.132	421.974	352.869	306.938
71.0	344.375	395.758	405.091	330.428	284.078
71.5	332.420	383.384	387.684	308.826	262.161
72.0	320.466	371.010	370.381	288.062	241.608
72.5	308.406	358.427	352.449	268.138	221.998
73.0	296.661	345.948	333.783	248.948	204.276
73.5	285.021	333.469	315.327	231.016	187.393
74.0	273.591	321.095	297.291	213.819	171.873
74.5	261.951	308.196	279.359	197.984	157.611
75.0	250.521	295.508	261.637	183.513	144.503
75.5	239.510	282.505	244.439	169.880	132.758
76.0	228.500	269.711	228.080	156.877	121.433
76.5	217.594	256.918	212.560	145.237	111.681
77.0	207.002	244.229	197.879	134.646	102.872
77.5	196.411	231.750	184.037	124.998	94.797
78.0	185.925	219.167	171.348	116.085	87.562
78.5	176.067	207.212	159.499	107.801	80.850
79.0	166.630	195.572	148.383	100.041	74.768
79.5	157.506	184.352	138.106	93.120	69.315
80.0	148.698	173.865	128.459	86.618	64.387
80.5	139.575	163.903	119.441	80.431	59.982
81.0	130.451	154.046	110.947	74.768	55.788
81.5	121.748	144.189	102.767	69.315	52.118
82.0	112.834	134.646	94.902	64.282	48.238
82.5	103.921	124.893	87.352	59.144	44.358

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CANDELA TABULATION - (Cont.)

83.0	94.797	114.931	80.012	53.900	40.792
83.5	86.094	105.179	72.776	48.972	37.541
84.0	77.285	95.427	65.750	44.253	34.396
84.5	68.581	85.255	58.619	39.534	31.459
85.0	59.878	75.083	51.384	35.130	28.733
85.5	51.698	64.806	44.358	31.040	26.636
86.0	43.624	54.634	37.541	27.474	24.853
86.5	35.864	44.567	30.830	24.119	22.756
87.0	28.838	35.025	24.538	20.553	19.924
87.5	22.441	26.216	19.085	16.464	15.835
88.0	16.883	18.561	13.947	13.213	13.737
88.5	11.745	12.479	10.172	10.591	11.325
89.0	7.236	8.075	7.131	7.026	7.236
89.5	5.977	6.187	6.082	7.026	6.921
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-L50-927-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-L50-927-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-L50-927-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	483.24	N.A.	12.00
0-30	1039.62	N.A.	25.80
0-40	1729.92	N.A.	42.90
0-60	3167.84	N.A.	78.60
0-80	3968.77	N.A.	98.50
0-90	4028.35	N.A.	100.00
10-90	3904.47	N.A.	96.90
20-40	1246.68	N.A.	30.90
20-50	1985.85	N.A.	49.30
40-70	1982.59	N.A.	49.20
60-80	800.93	N.A.	19.90
70-80	256.27	N.A.	6.40
80-90	59.58	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	4028.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	123.89
10-20	359.35
20-30	556.38
30-40	690.30
40-50	739.17
50-60	698.75
60-70	544.67
70-80	256.27
80-90	59.58
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-L50-927-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	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	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-L50-927-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	16.7	18.4	17.1	18.7	19.0	UGR Viewed Endwise			
	3H	18.6	20.1	19.0	20.4	20.8	17.7	19.4	18.1	19.7
	4H	19.3	20.7	19.7	21.0	21.4	19.1	20.7	19.5	21.0
	6H	19.7	21.0	20.1	21.4	21.8	19.4	20.8	19.8	21.1
	8H	19.9	21.1	20.3	21.5	21.9	19.4	20.7	19.9	21.1
	12H	19.9	21.1	20.3	21.5	21.9	19.4	20.6	19.8	21.0

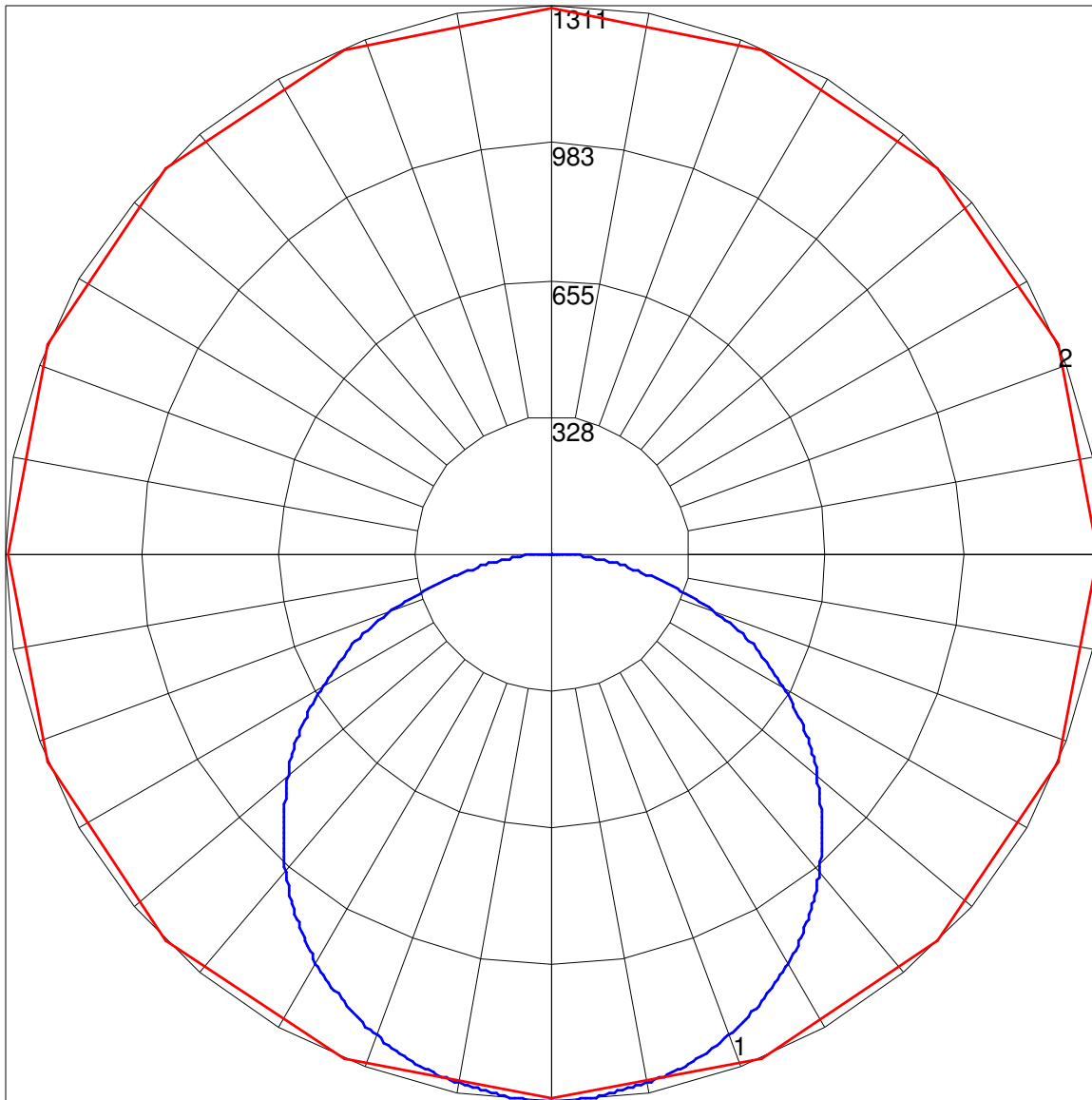
4H	2H	17.6	19.0	18.0	19.4	19.7	18.4	19.8	18.8	20.1
	3H	19.7	20.9	20.1	21.3	21.7	20.0	21.2	20.4	21.6
	4H	20.5	21.5	20.9	21.9	22.4	20.2	21.3	20.7	21.7
	6H	21.0	22.0	21.5	22.4	22.9	20.4	21.3	20.8	21.7
	8H	21.2	22.1	21.7	22.5	23.0	20.4	21.3	20.8	21.7
	12H	21.3	22.1	21.8	22.6	23.1	20.4	21.2	20.9	21.7

8H	4H	20.7	21.6	21.2	22.0	22.5	20.5	21.4	21.0	21.8
	6H	21.4	22.1	21.9	22.6	23.1	20.7	21.4	21.2	21.9
	8H	21.7	22.3	22.2	22.8	23.3	20.7	21.4	21.3	21.9
	12H	21.9	22.5	22.4	22.9	23.5	20.8	21.4	21.3	21.8

12H	4H	20.7	21.5	21.2	22.0	22.4	20.5	21.3	21.0	21.8
	6H	21.4	22.1	22.0	22.5	23.1	20.8	21.4	21.3	21.9
	8H	21.7	22.3	22.2	22.8	23.4	20.8	21.4	21.3	21.9

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 1310.805 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.)