



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-22-L50-930-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-L50-930-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	4077
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
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	3707	4033	4282
55	3602	4108	4371
65	3420	4092	4003
75	2867	2994	1654
85	2035	1746	976

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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	1324.667	1324.667	1324.667	1324.667	1324.667
0.5	1323.606	1326.790	1324.667	1323.606	1323.606
1.0	1322.544	1326.790	1324.667	1323.606	1323.606
1.5	1322.544	1325.729	1324.667	1322.544	1323.606
2.0	1322.544	1325.729	1323.606	1322.544	1322.544
2.5	1322.544	1325.729	1322.544	1321.483	1321.483
3.0	1321.483	1324.667	1321.483	1320.421	1321.483
3.5	1320.421	1323.606	1320.421	1320.421	1320.421
4.0	1319.360	1322.544	1320.421	1319.360	1319.360
4.5	1318.299	1321.483	1318.299	1318.299	1318.299
5.0	1317.237	1319.360	1317.237	1317.237	1318.299
5.5	1316.176	1318.299	1316.176	1316.176	1317.237
6.0	1314.053	1317.237	1315.114	1315.114	1316.176
6.5	1312.991	1315.114	1314.053	1315.114	1315.114
7.0	1311.930	1314.053	1312.991	1314.053	1315.114
7.5	1309.807	1311.930	1310.869	1312.991	1314.053
8.0	1308.746	1310.869	1309.807	1311.930	1312.991
8.5	1306.623	1308.746	1308.746	1310.869	1311.930
9.0	1304.500	1306.623	1306.623	1309.807	1311.930
9.5	1302.377	1304.500	1305.561	1308.746	1310.869
10.0	1301.316	1303.439	1304.500	1307.684	1309.807
10.5	1299.193	1301.316	1302.377	1306.623	1309.807
11.0	1297.070	1299.193	1301.316	1305.561	1308.746
11.5	1294.947	1297.070	1299.193	1304.500	1307.684
12.0	1292.824	1294.947	1298.131	1303.439	1306.623
12.5	1290.701	1292.824	1296.008	1302.377	1306.623
13.0	1287.517	1290.701	1294.947	1301.316	1305.561
13.5	1285.394	1288.578	1292.824	1300.254	1304.500
14.0	1282.210	1285.394	1290.701	1299.193	1303.439
14.5	1280.087	1283.271	1288.578	1297.070	1302.377
15.0	1276.903	1280.087	1286.456	1296.008	1301.316
15.5	1273.718	1276.903	1284.333	1293.886	1299.193
16.0	1270.534	1273.718	1282.210	1291.763	1298.131
16.5	1267.350	1270.534	1279.026	1290.701	1296.008
17.0	1263.104	1267.350	1276.903	1287.517	1294.947
17.5	1259.920	1264.166	1273.718	1285.394	1291.763
18.0	1255.674	1259.920	1270.534	1283.271	1289.640
18.5	1251.428	1255.674	1267.350	1280.087	1287.517
19.0	1247.183	1252.490	1264.166	1277.964	1285.394
19.5	1243.998	1248.244	1260.981	1274.780	1282.210
20.0	1238.691	1243.998	1257.797	1272.657	1280.087
20.5	1234.445	1239.753	1253.551	1269.473	1277.964
21.0	1230.200	1235.507	1250.367	1266.288	1274.780
21.5	1225.954	1231.261	1246.121	1263.104	1271.596
22.0	1220.647	1227.015	1241.875	1259.920	1268.411
22.5	1215.340	1221.708	1238.691	1256.735	1265.227
23.0	1211.094	1217.463	1234.445	1253.551	1263.104
23.5	1205.787	1213.217	1231.261	1250.367	1259.920
24.0	1201.541	1208.971	1227.015	1247.183	1256.735
24.5	1195.172	1203.664	1223.831	1243.998	1254.613
25.0	1190.927	1198.357	1219.585	1240.814	1251.428
25.5	1185.620	1194.111	1216.401	1237.630	1249.305
26.0	1180.312	1188.804	1212.155	1234.445	1246.121
26.5	1175.005	1184.558	1207.910	1231.261	1243.998

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CANDELA TABULATION - (Cont.)

27.0	1168.637	1179.251	1203.664	1228.077	1240.814
27.5	1163.329	1173.944	1200.480	1224.893	1237.630
28.0	1158.022	1168.637	1196.234	1220.647	1233.384
28.5	1151.654	1163.329	1190.927	1216.401	1230.200
29.0	1145.285	1156.961	1186.681	1212.155	1225.954
29.5	1139.978	1151.654	1181.374	1207.910	1221.708
30.0	1133.609	1146.347	1176.067	1203.664	1217.463
30.5	1127.241	1139.978	1170.760	1198.357	1213.217
31.0	1120.872	1134.671	1165.452	1194.111	1207.910
31.5	1113.442	1128.302	1160.145	1188.804	1203.664
32.0	1107.074	1121.934	1153.777	1183.497	1198.357
32.5	1100.705	1115.565	1148.469	1178.190	1193.050
33.0	1093.275	1108.135	1142.101	1172.882	1187.742
33.5	1085.845	1101.766	1136.794	1167.575	1182.435
34.0	1078.415	1094.336	1130.425	1161.207	1177.128
34.5	1070.985	1087.968	1124.056	1155.899	1171.821
35.0	1063.555	1080.538	1117.688	1150.592	1166.514
35.5	1056.231	1074.169	1111.319	1145.285	1161.207
36.0	1048.801	1066.739	1104.951	1138.917	1155.899
36.5	1040.946	1059.628	1099.644	1133.609	1150.592
37.0	1033.304	1052.410	1092.214	1127.241	1145.285
37.5	1025.237	1045.086	1085.845	1121.934	1138.917
38.0	1016.958	1037.762	1079.476	1115.565	1132.548
38.5	1008.785	1030.014	1072.046	1109.196	1127.241
39.0	1000.506	1022.477	1065.678	1102.828	1120.872
39.5	992.227	1014.835	1058.566	1096.459	1113.442
40.0	983.947	1006.768	1051.242	1089.029	1107.074
40.5	975.456	998.914	1043.812	1081.599	1100.705
41.0	966.434	990.847	1036.807	1075.231	1093.275
41.5	958.049	982.674	1029.271	1067.801	1086.906
42.0	949.239	974.395	1021.628	1060.264	1079.476
42.5	940.641	966.115	1013.774	1052.941	1072.046
43.0	931.725	957.942	1006.131	1045.617	1064.616
43.5	922.809	949.239	998.489	1038.187	1057.717
44.0	914.105	940.535	990.528	1030.544	1050.075
44.5	905.189	932.043	982.568	1023.008	1042.432
45.0	895.849	923.446	974.501	1015.260	1034.578
45.5	886.933	914.636	966.434	1007.405	1026.617
46.0	877.698	906.038	958.155	999.551	1018.656
46.5	868.570	897.122	949.876	991.484	1011.014
47.0	859.017	888.206	941.490	983.311	1003.053
47.5	849.146	879.290	933.211	974.819	994.562
48.0	839.593	870.374	924.613	966.328	986.389
48.5	833.012	861.246	916.016	957.942	977.473
49.0	829.615	852.542	907.100	949.345	969.300
49.5	819.850	845.218	898.396	940.959	960.490
50.0	809.873	837.470	889.480	932.043	951.574
50.5	800.001	830.571	880.564	922.915	942.764
51.0	789.705	821.761	871.648	913.787	933.742
51.5	779.622	812.420	862.626	904.552	924.083
52.0	769.326	804.884	854.559	895.318	914.636
52.5	759.136	795.543	847.129	885.977	904.977
53.0	748.628	785.884	838.213	876.000	895.318
53.5	737.908	776.013	830.995	866.235	884.916
54.0	727.187	766.142	823.034	856.151	874.408
54.5	716.467	756.270	813.269	848.296	864.112

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CANDELA TABULATION - (Cont.)

55.0	706.065	746.293	805.202	840.017	856.682
55.5	695.450	736.422	795.756	829.615	847.447
56.0	684.836	726.232	785.672	819.426	835.984
56.5	674.115	716.042	775.270	811.995	824.308
57.0	663.289	705.534	764.762	801.169	812.420
57.5	652.462	695.238	754.254	789.812	804.884
58.0	641.848	685.048	743.852	778.454	792.465
58.5	631.340	674.965	733.343	766.991	780.046
59.0	620.513	664.881	722.729	754.997	767.203
59.5	609.793	654.373	711.902	742.896	754.254
60.0	598.860	644.183	701.182	730.478	740.667
60.5	588.139	633.887	690.462	718.377	726.762
61.0	577.737	623.804	679.741	705.852	712.752
61.5	567.123	614.038	669.339	693.327	698.528
62.0	556.827	604.379	658.619	680.590	684.093
62.5	546.319	594.402	647.792	667.110	668.702
63.0	536.023	584.424	636.965	653.418	652.568
63.5	525.621	574.659	625.820	639.088	635.161
64.0	515.113	564.788	614.569	624.016	617.010
64.5	504.817	554.598	602.893	608.201	598.117
65.0	493.990	544.408	590.899	591.430	578.056
65.5	482.845	533.794	578.587	573.810	556.827
66.0	471.594	522.755	565.319	555.023	534.219
66.5	460.237	511.504	551.414	535.174	510.018
67.0	448.137	499.828	537.297	514.582	486.136
67.5	436.142	487.940	522.755	493.672	461.086
68.0	423.936	475.840	507.895	471.594	435.930
68.5	411.836	463.527	492.398	449.198	410.137
69.0	398.780	451.002	476.371	426.165	384.769
69.5	385.937	438.478	460.237	402.813	359.082
70.0	373.412	425.847	444.103	379.462	334.670
70.5	360.781	413.109	427.120	357.172	310.681
71.0	348.574	400.584	410.031	334.457	287.542
71.5	336.474	388.060	392.411	312.592	265.358
72.0	324.374	375.535	374.898	291.575	244.554
72.5	312.167	362.797	356.747	271.408	224.705
73.0	300.279	350.166	337.854	251.984	206.767
73.5	288.497	337.535	319.173	233.833	189.678
74.0	276.928	325.010	300.916	216.426	173.969
74.5	265.146	311.955	282.765	200.398	159.533
75.0	253.576	299.112	264.827	185.751	146.265
75.5	242.431	285.950	247.420	171.952	134.377
76.0	231.286	273.000	230.861	158.790	122.914
76.5	220.247	260.051	215.152	147.008	113.043
77.0	209.527	247.208	200.292	136.288	104.126
77.5	198.806	234.576	186.281	126.523	95.953
78.0	188.192	221.839	173.438	117.501	88.630
78.5	178.214	209.739	161.444	109.115	81.836
79.0	168.662	197.957	150.193	101.261	75.680
79.5	159.427	186.600	139.791	94.255	70.161
80.0	150.511	175.985	130.025	87.674	65.172
80.5	141.277	165.902	120.897	81.412	60.714
81.0	132.042	155.924	112.300	75.680	56.468
81.5	123.232	145.947	104.020	70.161	52.753
82.0	114.210	136.288	96.060	65.066	48.826
82.5	105.188	126.417	88.417	59.865	44.899

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CANDELA TABULATION - (Cont.)

83.0	95.953	116.333	80.987	54.558	41.290
83.5	87.144	106.462	73.663	49.569	37.999
84.0	78.228	96.590	66.552	44.792	34.815
84.5	69.418	86.294	59.334	40.016	31.843
85.0	60.608	75.999	52.010	35.558	29.083
85.5	52.329	65.596	44.899	31.418	26.960
86.0	44.156	55.301	37.999	27.810	25.156
86.5	36.301	45.111	31.206	24.413	23.033
87.0	29.189	35.452	24.838	20.804	20.167
87.5	22.715	26.536	19.318	16.664	16.028
88.0	17.089	18.787	14.117	13.374	13.905
88.5	11.888	12.631	10.296	10.720	11.463
89.0	7.324	8.173	7.218	7.112	7.324
89.5	6.050	6.262	6.156	7.112	7.005
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-L50-930-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-L50-930-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-L50-930-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	489.13	N.A.	12.00
0-30	1052.3	N.A.	25.80
0-40	1751.02	N.A.	42.90
0-60	3206.47	N.A.	78.60
0-80	4017.17	N.A.	98.50
0-90	4077.48	N.A.	100.00
10-90	3952.08	N.A.	96.90
20-40	1261.89	N.A.	30.90
20-50	2010.07	N.A.	49.30
40-70	2006.76	N.A.	49.20
60-80	810.70	N.A.	19.90
70-80	259.39	N.A.	6.40
80-90	60.31	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	4077.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	125.40
10-20	363.73
20-30	563.17
30-40	698.72
40-50	748.18
50-60	707.27
60-70	551.31
70-80	259.39
80-90	60.31
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-L50-930-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-L50-930-DIM-UNV_.IES

UGR TABLE - CORRECTED

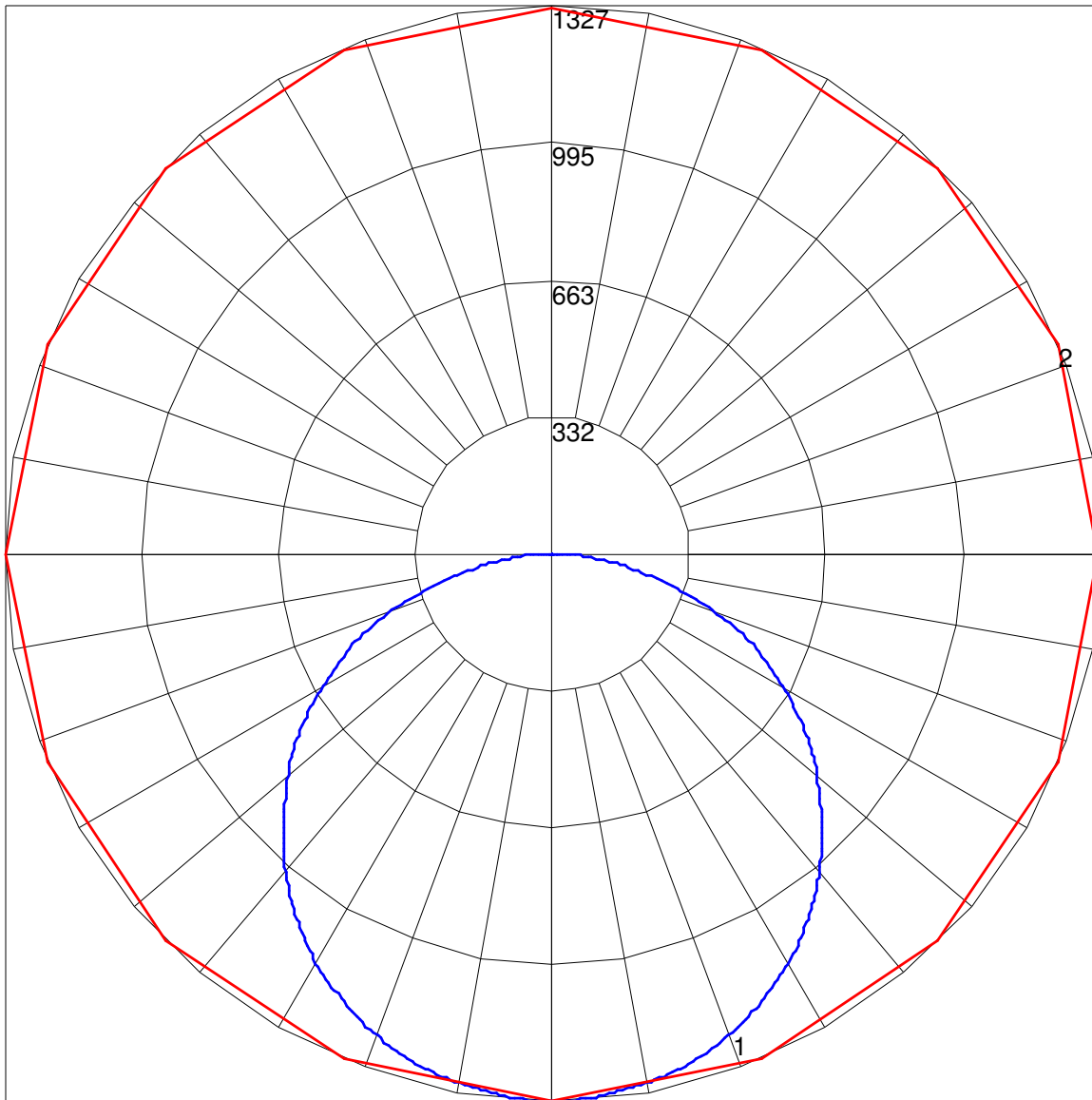
Reflectances

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	16.8	18.5	17.2	18.8	19.1	17.8	19.5	18.2	19.8	20.1
	3H	18.7	20.2	19.1	20.5	20.9	19.2	20.8	19.6	21.1	21.4
	4H	19.4	20.8	19.8	21.1	21.5	19.5	20.9	19.9	21.2	21.6
	6H	19.8	21.1	20.2	21.5	21.9	19.5	20.8	19.9	21.2	21.6
	8H	20.0	21.2	20.4	21.6	22.0	19.5	20.8	20.0	21.2	21.6
	12H	20.0	21.2	20.4	21.6	22.0	19.5	20.7	19.9	21.1	21.5
4H	2H	17.7	19.1	18.1	19.5	19.8	18.5	19.9	18.9	20.2	20.6
	3H	19.8	21.0	20.2	21.4	21.8	20.1	21.3	20.5	21.7	22.1
	4H	20.6	21.6	21.0	22.0	22.5	20.3	21.4	20.8	21.8	22.3
	6H	21.1	22.1	21.6	22.5	23.0	20.5	21.4	20.9	21.8	22.3
	8H	21.3	22.2	21.8	22.6	23.1	20.5	21.4	20.9	21.8	22.3
	12H	21.4	22.2	21.9	22.7	23.2	20.5	21.3	21.0	21.8	22.2
8H	4H	20.8	21.7	21.3	22.1	22.6	20.6	21.5	21.1	21.9	22.4
	6H	21.5	22.2	22.0	22.7	23.2	20.8	21.5	21.3	22.0	22.5
	8H	21.8	22.4	22.3	22.9	23.4	20.8	21.5	21.4	22.0	22.5
	12H	22.0	22.6	22.5	23.0	23.6	20.9	21.5	21.4	21.9	22.5
12H	4H	20.8	21.6	21.3	22.1	22.5	20.6	21.4	21.1	21.9	22.4
	6H	21.5	22.2	22.1	22.6	23.2	20.9	21.5	21.4	22.0	22.5
	8H	21.8	22.4	22.3	22.9	23.5	20.9	21.5	21.4	22.0	22.5

Maximum UGR = 23.6

POLAR GRAPH



Maximum Candela = 1326.79 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.)