



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-22-L50-827-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-L50-827-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	4765
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
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	4333	4713	5004
55	4210	4801	5108
65	3997	4782	4678
75	3351	3499	1933
85	2378	2041	1141

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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	1548.105	1548.105	1548.105	1548.105	1548.105
0.5	1546.865	1550.586	1548.105	1546.865	1546.865
1.0	1545.624	1550.586	1548.105	1546.865	1546.865
1.5	1545.624	1549.346	1548.105	1545.624	1546.865
2.0	1545.624	1549.346	1546.865	1545.624	1545.624
2.5	1545.624	1549.346	1545.624	1544.384	1544.384
3.0	1544.384	1548.105	1544.384	1543.143	1544.384
3.5	1543.143	1546.865	1543.143	1543.143	1543.143
4.0	1541.903	1545.624	1543.143	1541.903	1541.903
4.5	1540.662	1544.384	1540.662	1540.662	1540.662
5.0	1539.422	1541.903	1539.422	1539.422	1540.662
5.5	1538.182	1540.662	1538.182	1538.182	1539.422
6.0	1535.701	1539.422	1536.941	1536.941	1538.182
6.5	1534.460	1536.941	1535.701	1536.941	1536.941
7.0	1533.220	1535.701	1534.460	1535.701	1536.941
7.5	1530.739	1533.220	1531.979	1534.460	1535.701
8.0	1529.498	1531.979	1530.739	1533.220	1534.460
8.5	1527.017	1529.498	1529.498	1531.979	1533.220
9.0	1524.536	1527.017	1527.017	1530.739	1533.220
9.5	1522.055	1524.536	1525.777	1529.498	1531.979
10.0	1520.815	1523.296	1524.536	1528.258	1530.739
10.5	1518.334	1520.815	1522.055	1527.017	1530.739
11.0	1515.853	1518.334	1520.815	1525.777	1529.498
11.5	1513.372	1515.853	1518.334	1524.536	1528.258
12.0	1510.891	1513.372	1517.094	1523.296	1527.017
12.5	1508.410	1510.891	1514.613	1522.055	1527.017
13.0	1504.689	1508.410	1513.372	1520.815	1525.777
13.5	1502.208	1505.929	1510.891	1519.574	1524.536
14.0	1498.487	1502.208	1508.410	1518.334	1523.296
14.5	1496.006	1499.727	1505.929	1515.853	1522.055
15.0	1492.284	1496.006	1503.448	1514.613	1520.815
15.5	1488.563	1492.284	1500.967	1512.132	1518.334
16.0	1484.841	1488.563	1498.487	1509.651	1517.094
16.5	1481.120	1484.841	1494.765	1508.410	1514.613
17.0	1476.158	1481.120	1492.284	1504.689	1513.372
17.5	1472.437	1477.399	1488.563	1502.208	1509.651
18.0	1467.475	1472.437	1484.841	1499.727	1507.170
18.5	1462.513	1467.475	1481.120	1496.006	1504.689
19.0	1457.551	1463.753	1477.399	1493.525	1502.208
19.5	1453.830	1458.792	1473.677	1489.803	1498.487
20.0	1447.627	1453.830	1469.956	1487.322	1496.006
20.5	1442.665	1448.868	1464.994	1483.601	1493.525
21.0	1437.704	1443.906	1461.272	1479.879	1489.803
21.5	1432.742	1438.944	1456.311	1476.158	1486.082
22.0	1426.539	1433.982	1451.349	1472.437	1482.360
22.5	1420.337	1427.780	1447.627	1468.715	1478.639
23.0	1415.375	1422.818	1442.665	1464.994	1476.158
23.5	1409.173	1417.856	1438.944	1461.272	1472.437
24.0	1404.211	1412.894	1433.982	1457.551	1468.715
24.5	1396.768	1406.692	1430.261	1453.830	1466.234
25.0	1391.806	1400.489	1425.299	1450.108	1462.513
25.5	1385.604	1395.528	1421.577	1446.387	1460.032
26.0	1379.402	1389.325	1416.616	1442.665	1456.311
26.5	1373.199	1384.363	1411.654	1438.944	1453.830

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**CANDELA TABULATION - (Cont.)**

27.0	1365.756	1378.161	1406.692	1435.223	1450.108
27.5	1359.554	1371.959	1402.970	1431.501	1446.387
28.0	1353.352	1365.756	1398.009	1426.539	1441.425
28.5	1345.909	1359.554	1391.806	1421.577	1437.704
29.0	1338.466	1352.111	1386.844	1416.616	1432.742
29.5	1332.264	1345.909	1380.642	1411.654	1427.780
30.0	1324.821	1339.706	1374.440	1406.692	1422.818
30.5	1317.378	1332.264	1368.237	1400.489	1417.856
31.0	1309.935	1326.061	1362.035	1395.528	1411.654
31.5	1301.252	1318.619	1355.833	1389.325	1406.692
32.0	1293.809	1311.176	1348.390	1383.123	1400.489
32.5	1286.366	1303.733	1342.187	1376.921	1394.287
33.0	1277.683	1295.050	1334.745	1370.718	1388.085
33.5	1269.000	1287.607	1328.542	1364.516	1381.882
34.0	1260.316	1278.924	1321.099	1357.073	1375.680
34.5	1251.633	1271.481	1313.657	1350.871	1369.478
35.0	1242.950	1262.797	1306.214	1344.668	1363.275
35.5	1234.391	1255.355	1298.771	1338.466	1357.073
36.0	1225.707	1246.671	1291.328	1331.023	1350.871
36.5	1216.528	1238.360	1285.126	1324.821	1344.668
37.0	1207.597	1229.925	1276.443	1317.378	1338.466
37.5	1198.169	1221.366	1269.000	1311.176	1331.023
38.0	1188.493	1212.807	1261.557	1303.733	1323.580
38.5	1178.942	1203.751	1252.874	1296.290	1317.378
39.0	1169.266	1194.944	1245.431	1288.847	1309.935
39.5	1159.590	1186.012	1237.120	1281.404	1301.252
40.0	1149.915	1176.585	1228.560	1272.721	1293.809
40.5	1139.991	1167.405	1219.877	1264.038	1286.366
41.0	1129.447	1157.978	1211.690	1256.595	1277.683
41.5	1119.647	1148.426	1202.883	1247.912	1270.240
42.0	1109.351	1138.751	1193.951	1239.104	1261.557
42.5	1099.304	1129.075	1184.772	1230.545	1252.874
43.0	1088.884	1119.523	1175.841	1221.986	1244.190
43.5	1078.464	1109.351	1166.909	1213.303	1236.127
44.0	1068.292	1099.180	1157.606	1204.371	1227.196
44.5	1057.872	1089.256	1148.302	1195.564	1218.265
45.0	1046.956	1079.208	1138.875	1186.509	1209.085
45.5	1036.536	1068.912	1129.447	1177.329	1199.782
46.0	1025.744	1058.864	1119.771	1168.150	1190.478
46.5	1015.076	1048.444	1110.096	1158.722	1181.547
47.0	1003.912	1038.024	1100.296	1149.170	1172.243
47.5	992.375	1027.605	1090.620	1139.247	1162.319
48.0	981.211	1017.185	1080.573	1129.323	1152.768
48.5	973.520	1006.517	1070.525	1119.523	1142.348
49.0	969.551	996.345	1060.105	1109.475	1132.796
49.5	958.138	987.785	1049.933	1099.676	1122.500
50.0	946.478	978.730	1039.513	1089.256	1112.080
50.5	934.941	970.667	1029.093	1078.588	1101.785
51.0	922.909	960.371	1018.673	1067.920	1091.241
51.5	911.124	949.455	1008.129	1057.128	1079.952
52.0	899.092	940.648	998.702	1046.336	1068.912
52.5	887.183	929.731	990.018	1035.419	1057.624
53.0	874.903	918.443	979.598	1023.759	1046.336
53.5	862.374	906.907	971.163	1012.347	1034.179
54.0	849.845	895.371	961.860	1000.562	1021.898
54.5	837.317	883.834	950.447	991.383	1009.866

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**CANDELA TABULATION - (Cont.)**

55.0	825.160	872.174	941.020	981.707	1001.183
55.5	812.755	860.637	929.980	969.551	990.390
56.0	800.351	848.729	918.195	957.642	976.993
56.5	787.822	836.820	906.039	948.959	963.348
57.0	775.169	824.540	893.758	936.306	949.455
57.5	762.516	812.507	881.477	923.033	940.648
58.0	750.112	800.599	869.321	909.760	926.134
58.5	737.831	788.814	857.040	896.363	911.621
59.0	725.178	777.030	844.635	882.346	896.611
59.5	712.649	764.749	831.983	868.204	881.477
60.0	699.873	752.841	819.454	853.691	865.599
60.5	687.344	740.808	806.925	839.549	849.349
61.0	675.187	729.024	794.396	824.912	832.975
61.5	662.783	717.611	782.240	810.274	816.353
62.0	650.750	706.323	769.711	795.389	799.482
62.5	638.469	694.663	757.058	779.635	781.495
63.0	626.437	683.002	744.405	763.633	762.640
63.5	614.280	671.590	731.381	746.886	742.297
64.0	602.000	660.054	718.232	729.272	721.085
64.5	589.967	648.145	704.586	710.789	699.004
65.0	577.314	636.237	690.569	691.189	675.559
65.5	564.289	623.832	676.180	670.598	650.750
66.0	551.140	610.931	660.674	648.641	624.328
66.5	537.867	597.782	644.424	625.444	596.045
67.0	523.726	584.137	627.925	601.379	568.135
67.5	509.709	570.244	610.931	576.942	538.860
68.0	495.443	556.102	593.564	551.140	509.461
68.5	481.302	541.713	575.454	524.966	479.317
69.0	466.044	527.075	556.722	498.048	449.670
69.5	451.035	512.438	537.867	470.758	419.651
70.0	436.397	497.676	519.012	443.468	391.120
70.5	421.635	482.791	499.165	417.418	363.085
71.0	407.370	468.153	479.193	390.872	336.043
71.5	393.229	453.515	458.601	365.318	310.117
72.0	379.087	438.878	438.134	340.757	285.804
72.5	364.822	423.992	416.922	317.188	262.607
73.0	350.929	409.231	394.841	294.487	241.643
73.5	337.159	394.469	373.009	273.275	221.672
74.0	323.638	379.832	351.673	252.932	203.313
74.5	309.869	364.574	330.461	234.201	186.442
75.0	296.348	349.564	309.497	217.082	170.937
75.5	283.323	334.182	289.153	200.956	157.043
76.0	270.298	319.049	269.802	185.574	143.646
76.5	257.397	303.915	251.443	171.805	132.110
77.0	244.869	288.905	234.076	159.276	121.690
77.5	232.340	274.144	217.702	147.864	112.138
78.0	219.935	259.258	202.693	137.320	103.579
78.5	208.275	245.117	188.675	127.520	95.640
79.0	197.111	231.347	175.526	118.341	88.445
79.5	186.318	218.074	163.370	110.154	81.995
80.0	175.899	205.670	151.957	102.463	76.165
80.5	165.106	193.885	141.289	95.144	70.955
81.0	154.314	182.225	131.242	88.445	65.993
81.5	144.018	170.564	121.566	81.995	61.651
82.0	133.474	159.276	112.262	76.041	57.062
82.5	122.930	147.740	103.331	69.962	52.472

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

83.0	112.138	135.955	94.648	63.760	48.254
83.5	101.843	124.419	86.089	57.930	44.409
84.0	91.423	112.883	77.777	52.348	40.687
84.5	81.127	100.850	69.342	46.766	37.214
85.0	70.831	88.818	60.783	41.556	33.989
85.5	61.155	76.661	52.472	36.718	31.508
86.0	51.604	64.628	44.409	32.500	29.399
86.5	42.424	52.720	36.470	28.531	26.918
87.0	34.113	41.432	29.027	24.313	23.569
87.5	26.546	31.012	22.577	19.475	18.731
88.0	19.972	21.956	16.498	15.630	16.250
88.5	13.893	14.762	12.033	12.529	13.397
89.0	8.559	9.552	8.435	8.311	8.559
89.5	7.071	7.319	7.195	8.311	8.187
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-L50-827-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-22-L50-827-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-22-L50-827-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	571.63	N.A.	12.00
0-30	1229.79	N.A.	25.80
0-40	2046.37	N.A.	42.90
0-60	3747.32	N.A.	78.60
0-80	4694.77	N.A.	98.50
0-90	4765.25	N.A.	100.00
10-90	4618.7	N.A.	96.90
20-40	1474.74	N.A.	30.90
20-50	2349.12	N.A.	49.30
40-70	2345.25	N.A.	49.20
60-80	947.45	N.A.	19.90
70-80	303.14	N.A.	6.40
80-90	70.48	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	4765.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	146.55
10-20	425.08
20-30	658.16
30-40	816.58
40-50	874.38
50-60	826.57
60-70	644.30
70-80	303.14
80-90	70.48
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-L50-827-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	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	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-L50-827-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

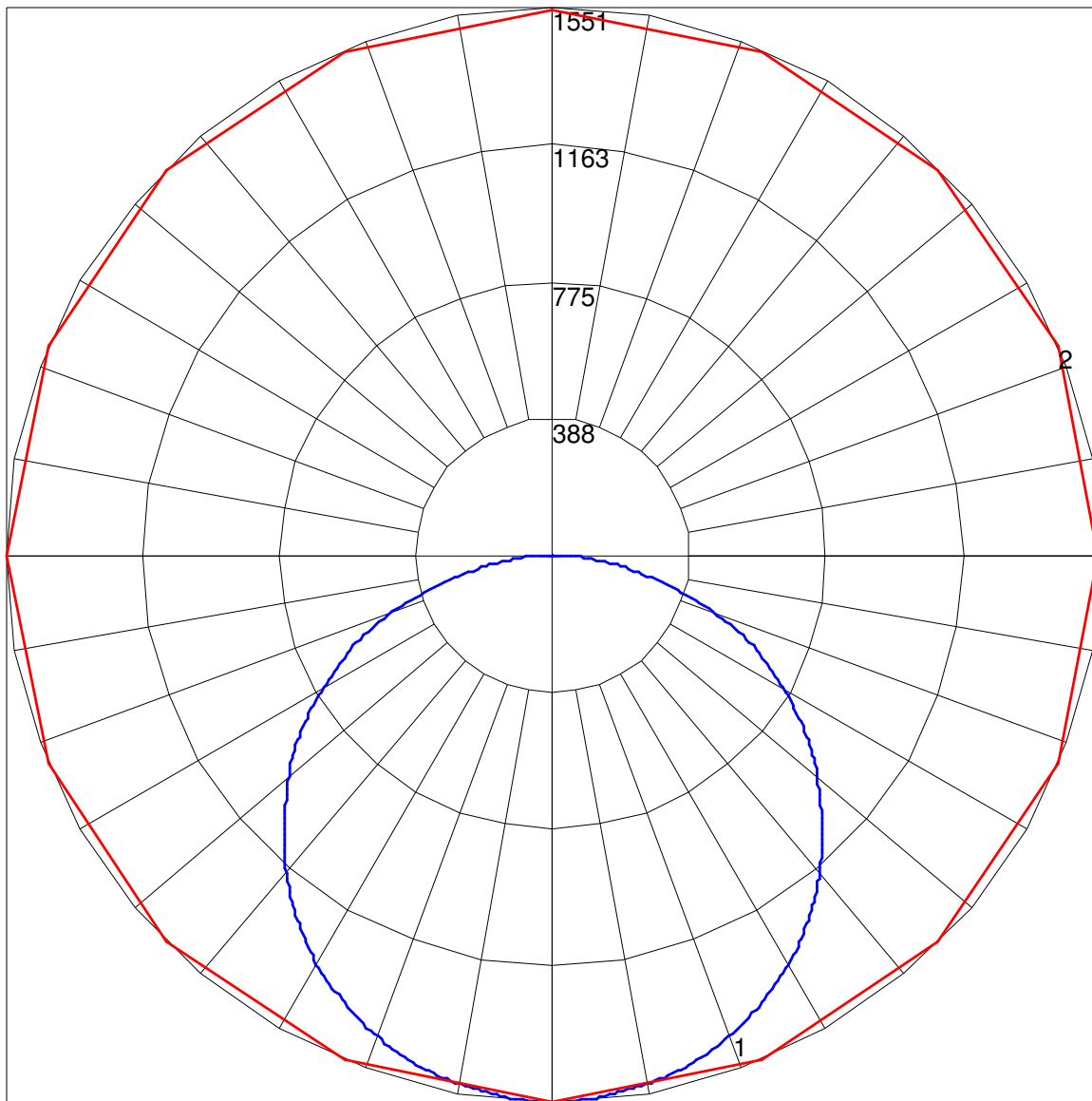
Reflectances

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	17.3	19.0	17.7	19.3	19.6	18.3	20.0	18.7	20.3	20.6
	3H	19.2	20.7	19.6	21.0	21.4	19.7	21.3	20.1	21.6	21.9
	4H	19.9	21.3	20.3	21.6	22.0	20.0	21.4	20.4	21.7	22.1
	6H	20.3	21.6	20.7	22.0	22.4	20.0	21.3	20.4	21.7	22.1
	8H	20.5	21.7	20.9	22.1	22.5	20.0	21.3	20.5	21.7	22.1
	12H	20.5	21.7	20.9	22.1	22.5	20.0	21.2	20.4	21.6	22.0
4H	2H	18.2	19.6	18.6	20.0	20.3	19.0	20.4	19.4	20.7	21.1
	3H	20.3	21.5	20.7	21.9	22.3	20.6	21.8	21.0	22.2	22.6
	4H	21.1	22.1	21.5	22.5	23.0	20.8	21.9	21.3	22.3	22.8
	6H	21.6	22.6	22.1	23.0	23.5	21.0	21.9	21.4	22.3	22.8
	8H	21.8	22.7	22.3	23.1	23.6	21.0	21.9	21.4	22.3	22.8
	12H	21.9	22.7	22.4	23.2	23.7	21.0	21.8	21.5	22.3	22.7
8H	4H	21.3	22.2	21.8	22.6	23.1	21.1	22.0	21.6	22.4	22.9
	6H	22.0	22.7	22.5	23.2	23.7	21.3	22.0	21.8	22.5	23.0
	8H	22.3	22.9	22.8	23.4	23.9	21.3	22.0	21.9	22.5	23.0
	12H	22.5	23.1	23.0	23.5	24.1	21.4	22.0	21.9	22.4	23.0
12H	4H	21.3	22.1	21.8	22.6	23.0	21.1	21.9	21.6	22.4	22.9
	6H	22.0	22.7	22.6	23.1	23.7	21.4	22.0	21.9	22.5	23.0
	8H	22.3	22.9	22.8	23.4	24.0	21.4	22.0	21.9	22.5	23.0

Maximum UGR = 24.1

POLAR GRAPH



Maximum Candela = 1550.586 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.)