



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-22-L50-830-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-L50-830-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	4863
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
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	4422	4810	5107
55	4297	4900	5213
65	4080	4880	4774
75	3420	3571	1973
85	2427	2083	1165

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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	1580.024	1580.024	1580.024	1580.024	1580.024
0.5	1578.758	1582.556	1580.024	1578.758	1578.758
1.0	1577.492	1582.556	1580.024	1578.758	1578.758
1.5	1577.492	1581.290	1580.024	1577.492	1578.758
2.0	1577.492	1581.290	1578.758	1577.492	1577.492
2.5	1577.492	1581.290	1577.492	1576.226	1576.226
3.0	1576.226	1580.024	1576.226	1574.960	1576.226
3.5	1574.960	1578.758	1574.960	1574.960	1574.960
4.0	1573.694	1577.492	1574.960	1573.694	1573.694
4.5	1572.428	1576.226	1572.428	1572.428	1572.428
5.0	1571.162	1573.694	1571.162	1571.162	1572.428
5.5	1569.896	1572.428	1569.896	1569.896	1571.162
6.0	1567.364	1571.162	1568.630	1568.630	1569.896
6.5	1566.098	1568.630	1567.364	1568.630	1568.630
7.0	1564.832	1567.364	1566.098	1567.364	1568.630
7.5	1562.299	1564.832	1563.566	1566.098	1567.364
8.0	1561.033	1563.566	1562.299	1564.832	1566.098
8.5	1558.501	1561.033	1561.033	1563.566	1564.832
9.0	1555.969	1558.501	1558.501	1562.299	1564.832
9.5	1553.437	1555.969	1557.235	1561.033	1563.566
10.0	1552.171	1554.703	1555.969	1559.767	1562.299
10.5	1549.639	1552.171	1553.437	1558.501	1562.299
11.0	1547.107	1549.639	1552.171	1557.235	1561.033
11.5	1544.575	1547.107	1549.639	1555.969	1559.767
12.0	1542.043	1544.575	1548.373	1554.703	1558.501
12.5	1539.511	1542.043	1545.841	1553.437	1558.501
13.0	1535.713	1539.511	1544.575	1552.171	1557.235
13.5	1533.180	1536.979	1542.043	1550.905	1555.969
14.0	1529.382	1533.180	1539.511	1549.639	1554.703
14.5	1526.850	1530.648	1536.979	1547.107	1553.437
15.0	1523.052	1526.850	1534.447	1545.841	1552.171
15.5	1519.254	1523.052	1531.914	1543.309	1549.639
16.0	1515.456	1519.254	1529.382	1540.777	1548.373
16.5	1511.658	1515.456	1525.584	1539.511	1545.841
17.0	1506.594	1511.658	1523.052	1535.713	1544.575
17.5	1502.795	1507.860	1519.254	1533.180	1540.777
18.0	1497.731	1502.795	1515.456	1530.648	1538.245
18.5	1492.667	1497.731	1511.658	1526.850	1535.713
19.0	1487.603	1493.933	1507.860	1524.318	1533.180
19.5	1483.805	1488.869	1504.061	1520.520	1529.382
20.0	1477.474	1483.805	1500.263	1517.988	1526.850
20.5	1472.410	1478.741	1495.199	1514.190	1524.318
21.0	1467.346	1473.676	1491.401	1510.392	1520.520
21.5	1462.282	1468.612	1486.337	1506.594	1516.722
22.0	1455.952	1463.548	1481.273	1502.795	1512.924
22.5	1449.621	1457.218	1477.474	1498.997	1509.126
23.0	1444.557	1452.154	1472.410	1495.199	1506.594
23.5	1438.227	1447.089	1468.612	1491.401	1502.795
24.0	1433.163	1442.025	1463.548	1487.603	1498.997
24.5	1425.567	1435.695	1459.750	1483.805	1496.465
25.0	1420.502	1429.365	1454.686	1480.007	1492.667
25.5	1414.172	1424.301	1450.888	1476.208	1490.135
26.0	1407.842	1417.970	1445.823	1472.410	1486.337
26.5	1401.512	1412.906	1440.759	1468.612	1483.805

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**CANDELA TABULATION - (Cont.)**

27.0	1393.916	1406.576	1435.695	1464.814	1480.007
27.5	1387.585	1400.246	1431.897	1461.016	1476.208
28.0	1381.255	1393.916	1426.833	1455.952	1471.144
28.5	1373.659	1387.585	1420.502	1450.888	1467.346
29.0	1366.063	1379.989	1415.438	1445.823	1462.282
29.5	1359.732	1373.659	1409.108	1440.759	1457.218
30.0	1352.136	1367.329	1402.778	1435.695	1452.154
30.5	1344.540	1359.732	1396.448	1429.365	1447.089
31.0	1336.943	1353.402	1390.117	1424.301	1440.759
31.5	1328.081	1345.806	1383.787	1417.970	1435.695
32.0	1320.485	1338.210	1376.191	1411.640	1429.365
32.5	1312.889	1330.613	1369.861	1405.310	1423.035
33.0	1304.026	1321.751	1362.264	1398.980	1416.704
33.5	1295.164	1314.155	1355.934	1392.649	1410.374
34.0	1286.302	1305.292	1348.338	1385.053	1404.044
34.5	1277.439	1297.696	1340.742	1378.723	1397.714
35.0	1268.577	1288.834	1333.145	1372.393	1391.383
35.5	1259.841	1281.238	1325.549	1366.063	1385.053
36.0	1250.979	1272.375	1317.953	1358.466	1378.723
36.5	1241.610	1263.893	1311.623	1352.136	1372.393
37.0	1232.495	1255.284	1302.760	1344.540	1366.063
37.5	1222.873	1246.548	1295.164	1338.210	1358.466
38.0	1212.998	1237.812	1287.568	1330.613	1350.870
38.5	1203.249	1228.570	1278.705	1323.017	1344.540
39.0	1193.374	1219.581	1271.109	1315.421	1336.943
39.5	1183.499	1210.466	1262.627	1307.824	1328.081
40.0	1173.624	1200.844	1253.891	1298.962	1320.485
40.5	1163.495	1191.475	1245.029	1290.100	1312.889
41.0	1152.734	1181.853	1236.673	1282.504	1304.026
41.5	1142.732	1172.104	1227.684	1273.641	1296.430
42.0	1132.224	1162.229	1218.568	1264.652	1287.568
42.5	1121.969	1152.354	1209.200	1255.917	1278.705
43.0	1111.334	1142.606	1200.084	1247.181	1269.843
43.5	1100.700	1132.224	1190.969	1238.319	1261.614
44.0	1090.318	1121.842	1181.473	1229.203	1252.498
44.5	1079.683	1111.714	1171.978	1220.214	1243.383
45.0	1068.542	1101.459	1162.356	1210.972	1234.014
45.5	1057.907	1090.951	1152.734	1201.603	1224.519
46.0	1046.893	1080.696	1142.859	1192.235	1215.023
46.5	1036.005	1070.061	1132.984	1182.613	1205.908
47.0	1024.610	1059.426	1122.982	1172.864	1196.413
47.5	1012.836	1048.792	1113.107	1162.736	1186.284
48.0	1001.442	1038.157	1102.852	1152.607	1176.536
48.5	993.592	1027.269	1092.597	1142.606	1165.901
49.0	989.541	1016.887	1081.962	1132.351	1156.152
49.5	977.893	1008.152	1071.580	1122.349	1145.644
50.0	965.992	998.909	1060.946	1111.714	1135.009
50.5	954.218	990.680	1050.311	1100.826	1124.501
51.0	941.937	980.172	1039.676	1089.938	1113.740
51.5	929.910	969.031	1028.915	1078.924	1102.219
52.0	917.629	960.042	1019.293	1067.909	1090.951
52.5	905.475	948.901	1010.430	1056.768	1079.430
53.0	892.942	937.380	999.796	1044.867	1067.909
53.5	880.154	925.605	991.187	1033.219	1055.502
54.0	867.367	913.831	981.691	1021.192	1042.968
54.5	854.580	902.057	970.044	1011.823	1030.687

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**CANDELA TABULATION - (Cont.)**

55.0	842.173	890.156	960.422	1001.948	1021.825
55.5	829.513	878.382	949.154	989.541	1010.810
56.0	816.852	866.228	937.126	977.387	997.137
56.5	804.065	854.074	924.719	968.524	983.211
57.0	791.152	841.540	912.185	955.611	969.031
57.5	778.238	829.259	899.652	942.064	960.042
58.0	765.577	817.105	887.244	928.517	945.229
58.5	753.044	805.078	874.710	914.844	930.416
59.0	740.130	793.051	862.050	900.538	915.097
59.5	727.343	780.517	849.136	886.105	899.652
60.0	714.303	768.363	836.349	871.292	883.446
60.5	701.516	756.082	823.562	856.859	866.861
61.0	689.108	744.055	810.775	841.920	850.149
61.5	676.448	732.407	798.368	826.981	833.184
62.0	664.167	720.886	785.581	811.788	815.966
62.5	651.633	708.985	772.667	795.709	797.608
63.0	639.353	697.084	759.754	779.377	778.364
63.5	626.945	685.437	746.460	762.286	757.601
64.0	614.412	673.663	733.040	744.308	735.952
64.5	602.131	661.508	719.114	725.444	713.416
65.0	589.217	649.354	704.807	705.440	689.488
65.5	575.924	636.694	690.121	684.424	664.167
66.0	562.504	623.527	674.296	662.015	637.200
66.5	548.957	610.107	657.710	638.340	608.335
67.0	534.524	596.181	640.872	613.779	579.849
67.5	520.218	582.001	623.527	588.838	549.970
68.0	505.658	567.568	605.803	562.504	519.965
68.5	491.225	552.882	587.318	535.790	489.200
69.0	475.653	537.943	568.201	508.317	458.941
69.5	460.334	523.003	548.957	480.464	428.303
70.0	445.395	507.937	529.713	452.611	399.184
70.5	430.329	492.745	509.456	426.024	370.571
71.0	415.769	477.805	489.073	398.931	342.972
71.5	401.336	462.866	468.057	372.850	316.511
72.0	386.903	447.927	447.167	347.783	291.697
72.5	372.344	432.734	425.518	323.728	268.022
73.0	358.164	417.668	402.982	300.559	246.626
73.5	344.111	402.602	380.700	278.910	226.242
74.0	330.311	387.663	358.924	258.147	207.505
74.5	316.258	372.091	337.274	239.029	190.287
75.0	302.458	356.771	315.878	221.558	174.461
75.5	289.165	341.073	295.115	205.099	160.281
76.0	275.871	325.627	275.365	189.400	146.608
76.5	262.704	310.181	256.627	175.347	134.834
77.0	249.917	294.862	238.903	162.560	124.199
77.5	237.130	279.796	222.191	150.913	114.450
78.0	224.470	264.603	206.872	140.151	105.715
78.5	212.569	250.170	192.565	130.149	97.612
79.0	201.175	236.117	179.145	120.781	90.269
79.5	190.160	222.571	166.738	112.425	83.686
80.0	179.525	209.910	155.091	104.575	77.735
80.5	168.511	197.883	144.203	97.106	72.418
81.0	157.496	185.982	133.948	90.269	67.354
81.5	146.988	174.081	124.072	83.686	62.922
82.0	136.226	162.560	114.577	77.609	58.238
82.5	125.465	150.786	105.462	71.405	53.554

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**CANDELA TABULATION - (Cont.)**

83.0	114.450	138.759	96.599	65.075	49.249
83.5	103.942	126.984	87.864	59.124	45.324
84.0	93.308	115.210	79.381	53.427	41.526
84.5	82.799	102.929	70.772	47.730	37.981
85.0	72.291	90.649	62.036	42.413	34.690
85.5	62.416	78.242	53.554	37.475	32.158
86.0	52.667	65.961	45.324	33.170	30.005
86.5	43.299	53.807	37.222	29.119	27.473
87.0	34.816	42.286	29.625	24.814	24.055
87.5	27.093	31.651	23.042	19.877	19.117
88.0	20.383	22.409	16.838	15.952	16.585
88.5	14.180	15.066	12.281	12.787	13.673
89.0	8.736	9.749	8.609	8.483	8.736
89.5	7.216	7.470	7.343	8.483	8.356
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-L50-830-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-L50-830-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-L50-830-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	583.42	N.A.	12.00
0-30	1255.15	N.A.	25.80
0-40	2088.56	N.A.	42.90
0-60	3824.58	N.A.	78.60
0-80	4791.56	N.A.	98.50
0-90	4863.5	N.A.	100.00
10-90	4713.92	N.A.	96.90
20-40	1505.14	N.A.	30.90
20-50	2397.55	N.A.	49.30
40-70	2393.61	N.A.	49.20
60-80	966.98	N.A.	19.90
70-80	309.39	N.A.	6.40
80-90	71.93	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	4863.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	149.57
10-20	433.85
20-30	671.73
30-40	833.41
40-50	892.41
50-60	843.61
60-70	657.59
70-80	309.39
80-90	71.93
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-L50-830-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-L50-830-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

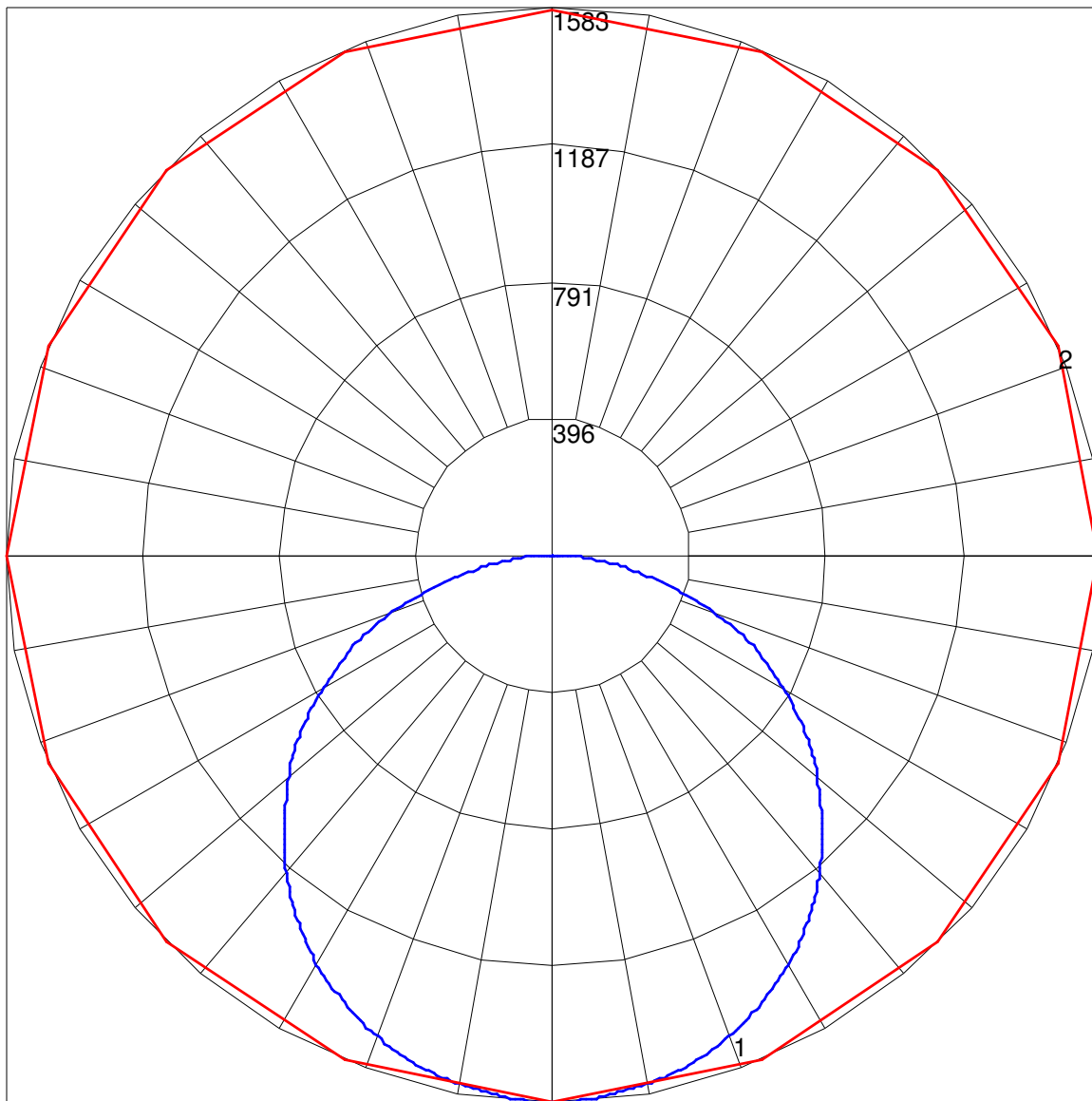
Reflectances

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	17.4	19.1	17.8	19.4	19.7	18.4	20.1	18.8	20.4	20.7
	3H	19.3	20.8	19.7	21.1	21.5	19.8	21.4	20.2	21.7	22.0
	4H	20.0	21.4	20.4	21.7	22.1	20.1	21.5	20.5	21.8	22.2
	6H	20.4	21.7	20.8	22.1	22.5	20.1	21.4	20.5	21.8	22.2
	8H	20.6	21.8	21.0	22.2	22.6	20.1	21.4	20.6	21.8	22.2
	12H	20.6	21.8	21.0	22.2	22.6	20.1	21.3	20.5	21.7	22.1
4H	2H	18.3	19.7	18.7	20.1	20.4	19.1	20.5	19.5	20.8	21.2
	3H	20.4	21.6	20.8	22.0	22.4	20.7	21.9	21.1	22.3	22.7
	4H	21.2	22.2	21.6	22.6	23.1	20.9	22.0	21.4	22.4	22.9
	6H	21.7	22.7	22.2	23.1	23.6	21.1	22.0	21.5	22.4	22.9
	8H	21.9	22.8	22.4	23.2	23.7	21.1	22.0	21.5	22.4	22.9
	12H	22.0	22.8	22.5	23.3	23.8	21.1	21.9	21.6	22.4	22.8
8H	4H	21.4	22.3	21.9	22.7	23.2	21.2	22.1	21.7	22.5	23.0
	6H	22.1	22.8	22.6	23.3	23.8	21.4	22.1	21.9	22.6	23.1
	8H	22.4	23.0	22.9	23.5	24.0	21.4	22.1	22.0	22.6	23.1
	12H	22.6	23.2	23.1	23.6	24.2	21.5	22.1	22.0	22.5	23.1
12H	4H	21.4	22.2	21.9	22.7	23.1	21.2	22.0	21.7	22.5	23.0
	6H	22.1	22.8	22.7	23.2	23.8	21.5	22.1	22.0	22.6	23.1
	8H	22.4	23.0	22.9	23.5	24.1	21.5	22.1	22.0	22.6	23.1

Maximum UGR = 24.2

POLAR GRAPH



Maximum Candela = 1582.556 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.)