



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-24-L60-930-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GENERATED FROM 15729805.03
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 2025-04-25
 [TESTDATE] 3/18/2025
 [MANUFAC] WILLIAMS INDOOR
 [MORE] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] BAR-24-L60-930-DIM-UNV_
 [LUMINAIRE] Recessed 2 x 4 Indirect LED luminaire
 [MORE] with centered LED rail & white painted housing
 [LAMP] 112 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	4868
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	45.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.38
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 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	2221	2375	2472
55	2184	2418	2500
65	2129	2415	2223
75	1912	1645	924
85	1290	674	560

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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	1555.853	1555.853	1555.853	1555.853	1555.853
0.5	1554.593	1555.853	1554.593	1557.114	1558.374
1.0	1553.963	1555.223	1553.963	1556.484	1558.374
1.5	1553.963	1555.223	1553.333	1556.484	1557.744
2.0	1553.333	1554.593	1553.333	1555.853	1557.114
2.5	1553.333	1553.963	1552.703	1555.223	1556.484
3.0	1552.703	1553.333	1551.442	1553.963	1555.853
3.5	1552.073	1552.703	1550.812	1553.333	1554.593
4.0	1552.073	1552.073	1549.552	1552.703	1553.963
4.5	1550.812	1550.812	1548.922	1552.073	1553.333
5.0	1550.182	1550.182	1547.661	1550.812	1552.073
5.5	1549.552	1548.922	1547.031	1550.182	1551.442
6.0	1548.292	1547.661	1545.771	1549.552	1550.812
6.5	1547.031	1545.771	1544.511	1548.292	1550.182
7.0	1545.771	1544.511	1543.881	1547.661	1549.552
7.5	1544.511	1543.250	1541.990	1546.401	1548.292
8.0	1542.620	1541.360	1540.730	1545.771	1547.661
8.5	1541.360	1539.469	1539.469	1544.511	1547.031
9.0	1539.469	1538.209	1538.209	1543.881	1546.401
9.5	1537.579	1536.319	1536.949	1542.620	1545.141
10.0	1535.058	1534.428	1535.058	1541.360	1544.511
10.5	1533.798	1531.908	1533.798	1540.730	1543.881
11.0	1531.277	1530.017	1531.908	1539.469	1542.620
11.5	1528.757	1527.497	1530.017	1538.209	1541.360
12.0	1526.236	1524.976	1528.127	1536.949	1540.730
12.5	1523.716	1522.455	1526.236	1535.689	1538.839
13.0	1520.565	1519.935	1524.346	1534.428	1538.209
13.5	1518.044	1517.414	1522.455	1532.538	1536.949
14.0	1514.893	1514.263	1519.935	1530.647	1535.689
14.5	1511.112	1511.743	1517.414	1528.757	1534.428
15.0	1508.592	1508.592	1514.893	1527.497	1532.538
15.5	1504.811	1504.811	1512.373	1524.976	1531.277
16.0	1501.660	1501.660	1509.852	1523.085	1528.757
16.5	1498.509	1498.509	1507.332	1520.565	1526.866
17.0	1494.728	1494.728	1504.181	1518.044	1524.976
17.5	1490.947	1491.578	1501.030	1515.524	1522.455
18.0	1487.167	1487.797	1498.509	1513.003	1519.935
18.5	1483.386	1484.646	1495.359	1509.852	1516.784
19.0	1478.975	1480.865	1492.208	1507.332	1513.633
19.5	1475.194	1476.454	1489.057	1504.181	1510.482
20.0	1470.783	1472.673	1485.906	1501.030	1507.332
20.5	1466.371	1468.892	1482.125	1497.879	1504.181
21.0	1461.960	1464.481	1478.344	1494.728	1500.400
21.5	1456.919	1460.070	1474.563	1490.947	1497.249
22.0	1452.508	1455.659	1470.783	1487.797	1494.098
22.5	1447.467	1451.248	1467.002	1484.016	1490.947
23.0	1443.056	1446.837	1463.221	1480.865	1487.797
23.5	1437.384	1441.795	1458.810	1477.084	1484.016
24.0	1431.713	1436.754	1454.398	1473.303	1480.865
24.5	1426.672	1431.713	1449.987	1470.152	1477.714
25.0	1421.000	1426.672	1446.206	1466.371	1473.933
25.5	1415.329	1421.000	1441.165	1462.591	1470.783
26.0	1409.657	1415.329	1436.754	1458.810	1467.632
26.5	1403.356	1409.657	1432.343	1455.029	1463.851

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CANDELA TABULATION - (Cont.)

27.0	1397.054	1403.986	1427.302	1451.248	1460.070
27.5	1390.753	1397.685	1422.891	1446.837	1456.289
28.0	1383.821	1392.013	1417.849	1442.426	1452.508
28.5	1377.520	1385.712	1412.808	1438.014	1448.097
29.0	1370.588	1379.410	1407.137	1432.973	1443.686
29.5	1363.656	1373.108	1402.096	1427.932	1438.645
30.0	1356.724	1366.807	1396.424	1422.891	1433.603
30.5	1349.163	1359.875	1390.753	1417.849	1428.562
31.0	1342.231	1353.574	1384.451	1412.178	1422.891
31.5	1335.299	1346.642	1378.780	1406.507	1417.219
32.0	1327.737	1340.340	1372.478	1400.835	1411.548
32.5	1320.175	1333.409	1366.177	1394.534	1405.877
33.0	1313.244	1325.847	1359.875	1388.862	1399.575
33.5	1305.052	1318.915	1353.574	1382.561	1393.904
34.0	1297.490	1311.353	1346.642	1376.259	1387.602
34.5	1289.298	1304.422	1339.710	1369.958	1381.300
35.0	1281.106	1296.860	1333.409	1363.656	1374.999
35.5	1273.544	1289.298	1326.477	1357.355	1368.697
36.0	1264.722	1281.736	1319.545	1350.423	1362.396
36.5	1255.900	1274.174	1311.983	1344.121	1355.464
37.0	1247.077	1265.982	1305.052	1337.190	1348.532
37.5	1238.885	1258.420	1297.490	1330.258	1341.601
38.0	1230.063	1249.598	1290.558	1322.696	1334.669
38.5	1221.241	1241.406	1282.996	1315.764	1327.737
39.0	1212.419	1233.214	1274.804	1308.202	1320.175
39.5	1203.597	1225.022	1267.242	1300.641	1312.614
40.0	1194.144	1216.830	1259.680	1293.079	1305.052
40.5	1185.322	1207.378	1251.488	1284.887	1297.490
41.0	1175.870	1198.555	1243.296	1276.695	1289.298
41.5	1166.418	1189.733	1234.474	1269.133	1281.106
42.0	1156.965	1180.911	1226.282	1260.311	1272.914
42.5	1147.513	1171.459	1217.460	1252.119	1264.092
43.0	1137.430	1162.006	1208.638	1243.927	1255.900
43.5	1127.348	1152.554	1199.816	1235.104	1247.077
44.0	1117.265	1143.102	1190.994	1226.282	1238.255
44.5	1107.183	1133.649	1181.541	1216.830	1229.433
45.0	1096.470	1123.567	1172.719	1208.008	1220.611
45.5	1086.388	1114.115	1163.897	1198.555	1211.159
46.0	1075.675	1104.032	1154.445	1189.103	1201.076
46.5	1064.962	1093.950	1144.992	1179.651	1191.624
47.0	1053.620	1083.867	1134.910	1169.568	1181.541
47.5	1042.907	1073.785	1125.457	1160.116	1172.089
48.0	1032.194	1063.702	1115.375	1150.033	1161.376
48.5	1020.852	1054.250	1105.923	1140.581	1151.294
49.0	1010.139	1043.537	1095.840	1130.499	1140.581
49.5	999.426	1033.455	1085.758	1119.786	1129.868
50.0	988.714	1023.372	1075.675	1109.073	1119.786
50.5	977.371	1013.290	1065.593	1098.361	1109.073
51.0	966.658	1002.577	1054.880	1087.648	1097.731
51.5	955.315	991.864	1044.798	1076.935	1086.388
52.0	943.973	981.152	1034.085	1065.593	1075.045
52.5	932.630	970.439	1023.372	1054.250	1063.702
53.0	921.287	959.727	1012.660	1042.907	1051.729
53.5	909.944	949.014	1001.947	1031.564	1039.126
54.0	898.601	938.301	990.604	1019.591	1026.523
54.5	886.629	927.589	979.892	1007.618	1013.920

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CANDELA TABULATION - (Cont.)

55.0	874.656	916.876	968.549	995.015	1001.317
55.5	863.313	905.533	956.576	982.412	988.084
56.0	851.340	894.190	945.233	969.179	974.850
56.5	839.367	882.848	933.260	956.576	960.987
57.0	827.394	871.505	921.287	942.712	946.493
57.5	814.791	860.162	909.314	929.479	931.370
58.0	802.818	848.189	897.341	915.616	916.876
58.5	790.845	836.846	884.738	901.752	901.122
59.0	778.872	825.503	872.135	887.259	885.998
59.5	766.899	814.161	860.162	872.135	870.245
60.0	754.296	802.818	847.559	857.641	853.230
60.5	742.323	791.475	834.956	842.518	836.846
61.0	729.720	779.502	822.983	827.394	819.202
61.5	717.747	768.159	810.380	811.640	801.558
62.0	705.144	756.186	797.146	795.886	782.653
62.5	692.541	744.844	783.283	778.872	763.748
63.0	679.938	732.871	770.050	761.858	744.213
63.5	667.334	720.268	756.186	744.213	723.418
64.0	654.731	708.295	742.323	725.309	701.993
64.5	641.498	696.322	727.199	706.404	679.938
65.0	628.328	683.719	712.706	685.609	655.992
65.5	615.032	671.115	697.582	663.554	630.785
66.0	601.294	657.882	681.198	640.868	604.256
66.5	587.431	644.649	664.814	617.867	577.411
67.0	573.693	630.785	648.430	592.850	549.306
67.5	559.578	617.489	630.785	567.707	521.012
68.0	545.273	603.815	612.259	541.492	494.231
68.5	530.969	589.825	593.480	515.215	467.323
69.0	516.349	575.647	574.072	489.064	438.462
69.5	502.738	561.531	554.222	462.975	409.223
70.0	490.135	547.290	533.868	434.996	381.055
70.5	477.973	532.670	514.081	407.017	353.580
71.0	463.290	518.366	493.097	379.354	327.366
71.5	448.292	505.889	471.671	352.068	302.601
72.0	433.484	491.143	449.679	325.853	278.529
72.5	418.675	478.099	424.788	300.458	255.465
73.0	403.741	463.668	400.086	276.827	234.670
73.5	389.373	448.482	374.186	254.961	215.639
74.0	374.879	433.169	348.728	234.103	198.184
74.5	360.449	417.352	322.955	214.757	182.052
75.0	345.577	401.409	297.370	196.861	166.991
75.5	331.273	385.025	272.731	180.287	153.569
76.0	317.472	368.263	248.848	165.227	140.966
76.5	302.979	351.690	226.415	151.552	129.686
77.0	288.989	334.486	205.746	139.012	119.414
77.5	274.496	317.220	186.715	127.795	110.025
78.0	260.632	299.450	169.134	117.776	101.896
78.5	246.706	280.671	153.254	108.387	94.334
79.0	232.779	261.893	139.264	99.817	87.150
79.5	219.042	242.799	126.409	92.066	80.849
80.0	205.557	223.327	114.814	84.945	75.241
80.5	192.008	203.414	104.354	78.580	70.136
81.0	178.208	183.879	94.712	72.657	65.473
81.5	164.660	164.345	85.890	67.301	60.936
82.0	151.489	145.629	77.950	62.259	56.336
82.5	138.445	128.489	70.766	57.344	51.988

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CANDELA TABULATION - (Cont.)

83.0	125.149	112.609	64.150	52.303	47.766
83.5	112.357	98.808	58.163	47.703	43.922
84.0	100.006	86.520	52.303	43.355	40.330
84.5	88.852	75.619	46.568	39.196	36.990
85.0	78.517	65.851	41.023	35.478	34.091
85.5	69.065	56.903	35.856	32.201	31.823
86.0	59.361	48.648	31.067	29.491	29.743
86.5	49.845	40.960	26.719	26.719	27.034
87.0	40.393	33.461	23.001	23.379	23.064
87.5	31.571	26.404	19.409	18.968	18.653
88.0	23.442	19.913	15.187	15.250	15.754
88.5	16.195	13.926	10.902	12.099	12.288
89.0	10.082	8.696	7.310	7.436	7.373
89.5	4.789	4.474	3.466	3.466	3.214
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-24-L60-930-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-24-L60-930-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-24-L60-930-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	576.52	N.A.	11.80
0-30	1243.97	N.A.	25.60
0-40	2076.81	N.A.	42.70
0-60	3827.7	N.A.	78.60
0-80	4806.21	N.A.	98.70
0-90	4868.06	N.A.	100.00
10-90	4720.49	N.A.	97.00
20-40	1500.29	N.A.	30.80
20-50	2399.46	N.A.	49.30
40-70	2416.13	N.A.	49.60
60-80	978.51	N.A.	20.10
70-80	313.27	N.A.	6.40
80-90	61.86	N.A.	1.30
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	4868.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	147.57
10-20	428.95
20-30	667.45
30-40	832.84
40-50	899.16
50-60	851.73
60-70	665.24
70-80	313.27
80-90	61.86
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-24-L60-930-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	98	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	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	39	51	44	39	50	44	39	37
7	64	50	41	35	62	50	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-24-L60-930-DIM-UNV_.IES

UGR TABLE - CORRECTED

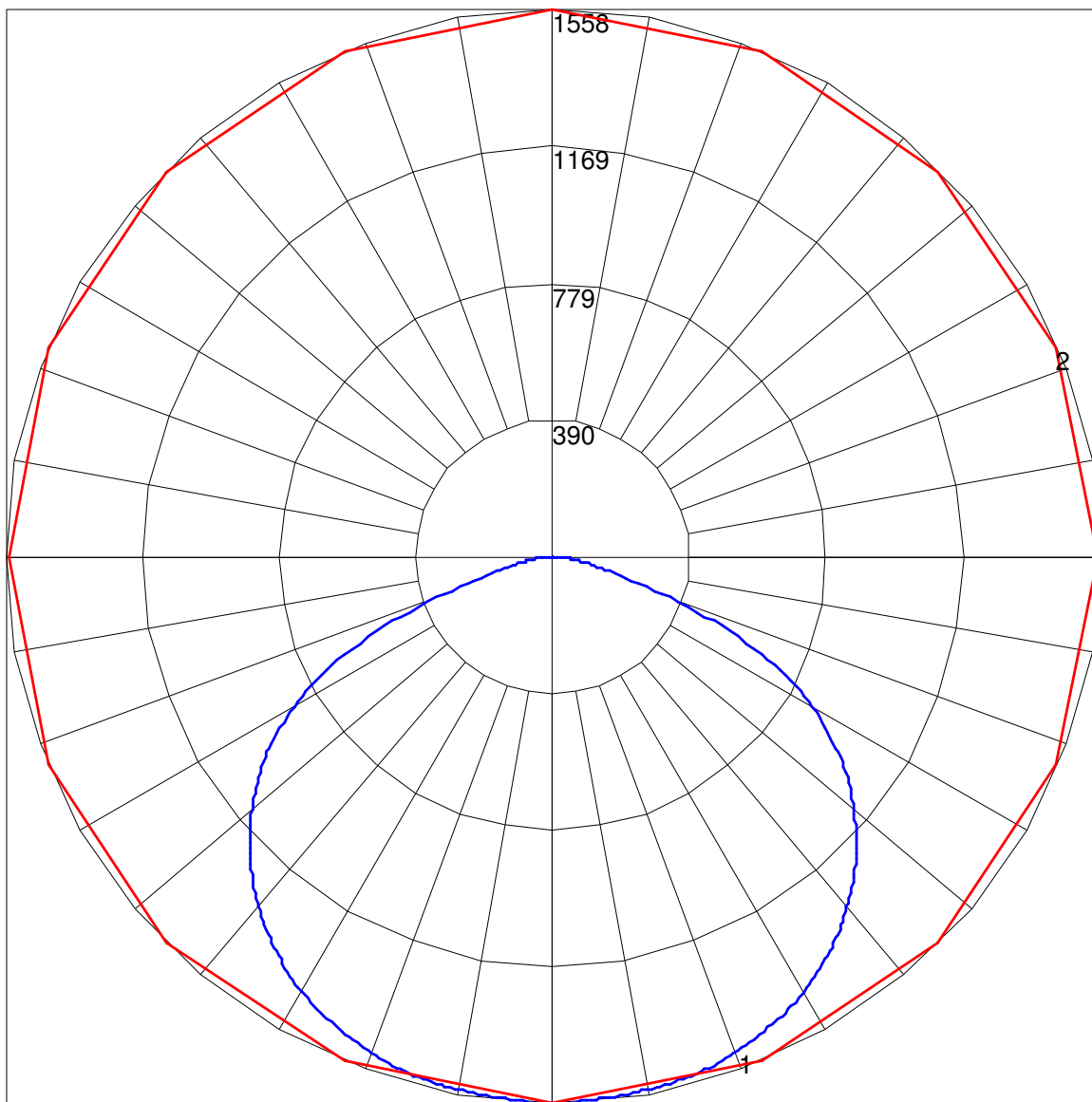
Reflectances

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	15.2	16.9	15.6	17.2	17.5	15.8	17.5	16.2	17.8	18.1
	3H	17.2	18.7	17.6	19.0	19.4	17.2	18.7	17.6	19.0	19.4
	4H	17.9	19.3	18.3	19.7	20.1	17.3	18.8	17.7	19.1	19.5
	6H	18.4	19.8	18.9	20.1	20.5	17.4	18.7	17.8	19.1	19.5
	8H	18.6	19.8	19.0	20.2	20.6	17.4	18.7	17.8	19.1	19.5
	12H	18.6	19.9	19.1	20.2	20.7	17.4	18.6	17.8	19.0	19.4
4H	2H	16.0	17.4	16.4	17.8	18.2	16.5	17.9	16.9	18.2	18.6
	3H	18.2	19.4	18.6	19.8	20.2	18.0	19.2	18.4	19.6	20.0
	4H	19.1	20.2	19.5	20.6	21.0	18.3	19.3	18.7	19.7	20.2
	6H	19.8	20.7	20.2	21.1	21.6	18.4	19.3	18.8	19.7	20.2
	8H	19.9	20.8	20.4	21.2	21.7	18.4	19.2	18.8	19.7	20.2
	12H	20.0	20.8	20.5	21.3	21.8	18.4	19.2	18.9	19.6	20.1
8H	4H	19.3	20.2	19.8	20.6	21.1	18.5	19.4	19.0	19.8	20.3
	6H	20.0	20.8	20.5	21.3	21.7	18.7	19.4	19.1	19.9	20.3
	8H	20.3	20.9	20.8	21.4	21.9	18.7	19.3	19.2	19.8	20.3
	12H	20.4	21.0	20.9	21.5	22.0	18.7	19.3	19.2	19.8	20.3
12H	4H	19.3	20.1	19.8	20.6	21.0	18.6	19.3	19.0	19.8	20.3
	6H	20.1	20.7	20.6	21.2	21.7	18.7	19.4	19.2	19.8	20.4
	8H	20.3	20.9	20.8	21.4	21.9	18.8	19.3	19.3	19.8	20.4

Maximum UGR = 22.0

POLAR GRAPH



Maximum Candela = 1558.374 Located At Horizontal Angle = 90, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)