



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-24-L40-850-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GENERATED FROM 15729805.03  
[TESTLAB] UL Verification Services Inc.  
[ISSUE DATE] 2025-04-25  
[TEST DATE] 3/18/2025  
[MANUFAC] WILLIAMS INDOOR  
[MORE] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] BAR-24-L40-850-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	4302
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	31.2
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	1962	2099	2184
55	1930	2137	2209
65	1881	2134	1964
75	1690	1454	817
85	1140	596	495

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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	1374.803	1374.803	1374.803	1374.803	1374.803
0.5	1373.689	1374.803	1373.689	1375.917	1377.030
1.0	1373.133	1374.246	1373.133	1375.360	1377.030
1.5	1373.133	1374.246	1372.576	1375.360	1376.474
2.0	1372.576	1373.689	1372.576	1374.803	1375.917
2.5	1372.576	1373.133	1372.019	1374.246	1375.360
3.0	1372.019	1372.576	1370.905	1373.133	1374.803
3.5	1371.462	1372.019	1370.348	1372.576	1373.689
4.0	1371.462	1371.462	1369.235	1372.019	1373.133
4.5	1370.348	1370.348	1368.678	1371.462	1372.576
5.0	1369.792	1369.792	1367.564	1370.348	1371.462
5.5	1369.235	1368.678	1367.008	1369.792	1370.905
6.0	1368.121	1367.564	1365.894	1369.235	1370.348
6.5	1367.008	1365.894	1364.780	1368.121	1369.792
7.0	1365.894	1364.780	1364.223	1367.564	1369.235
7.5	1364.780	1363.667	1362.553	1366.451	1368.121
8.0	1363.110	1361.996	1361.439	1365.894	1367.564
8.5	1361.996	1360.326	1360.326	1364.780	1367.008
9.0	1360.326	1359.212	1359.212	1364.223	1366.451
9.5	1358.655	1357.541	1358.098	1363.110	1365.337
10.0	1356.428	1355.871	1356.428	1361.996	1364.780
10.5	1355.314	1353.644	1355.314	1361.439	1364.223
11.0	1353.087	1351.973	1353.644	1360.326	1363.110
11.5	1350.860	1349.746	1351.973	1359.212	1361.996
12.0	1348.632	1347.519	1350.303	1358.098	1361.439
12.5	1346.405	1345.291	1348.632	1356.985	1359.769
13.0	1343.621	1343.064	1346.962	1355.871	1359.212
13.5	1341.394	1340.837	1345.291	1354.201	1358.098
14.0	1338.609	1338.053	1343.064	1352.530	1356.985
14.5	1335.268	1335.825	1340.837	1350.860	1355.871
15.0	1333.041	1333.041	1338.609	1349.746	1354.201
15.5	1329.700	1329.700	1336.382	1347.519	1353.087
16.0	1326.916	1326.916	1334.155	1345.848	1350.860
16.5	1324.132	1324.132	1331.927	1343.621	1349.189
17.0	1320.791	1320.791	1329.143	1341.394	1347.519
17.5	1317.450	1318.007	1326.359	1339.166	1345.291
18.0	1314.109	1314.666	1324.132	1336.939	1343.064
18.5	1310.768	1311.882	1321.348	1334.155	1340.280
19.0	1306.870	1308.541	1318.564	1331.927	1337.496
19.5	1303.529	1304.643	1315.780	1329.143	1334.712
20.0	1299.632	1301.302	1312.995	1326.359	1331.927
20.5	1295.734	1297.961	1309.654	1323.575	1329.143
21.0	1291.836	1294.063	1306.314	1320.791	1325.802
21.5	1287.381	1290.166	1302.973	1317.450	1323.018
22.0	1283.484	1286.268	1299.632	1314.666	1320.234
22.5	1279.029	1282.370	1296.291	1311.325	1317.450
23.0	1275.131	1278.472	1292.950	1308.541	1314.666
23.5	1270.120	1274.018	1289.052	1305.200	1311.325
24.0	1265.108	1269.563	1285.154	1301.859	1308.541
24.5	1260.654	1265.108	1281.256	1299.075	1305.757
25.0	1255.642	1260.654	1277.915	1295.734	1302.416
25.5	1250.631	1255.642	1273.461	1292.393	1299.632
26.0	1245.619	1250.631	1269.563	1289.052	1296.847
26.5	1240.051	1245.619	1265.665	1285.711	1293.507

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**CANDELA TABULATION - (Cont.)**

27.0	1234.483	1240.608	1261.211	1282.370	1290.166
27.5	1228.915	1235.040	1257.313	1278.472	1286.825
28.0	1222.790	1230.028	1252.858	1274.574	1283.484
28.5	1217.221	1224.460	1248.404	1270.677	1279.586
29.0	1211.096	1218.892	1243.392	1266.222	1275.688
29.5	1204.971	1213.324	1238.938	1261.767	1271.233
30.0	1198.846	1207.755	1233.926	1257.313	1266.779
30.5	1192.164	1201.630	1228.915	1252.858	1262.324
31.0	1186.039	1196.062	1223.346	1247.847	1257.313
31.5	1179.914	1189.937	1218.335	1242.835	1252.301
32.0	1173.232	1184.369	1212.767	1237.824	1247.290
32.5	1166.550	1178.244	1207.198	1232.256	1242.279
33.0	1160.425	1171.562	1201.630	1227.244	1236.710
33.5	1153.186	1165.437	1196.062	1221.676	1231.699
34.0	1146.504	1158.755	1189.937	1216.108	1226.131
34.5	1139.266	1152.630	1183.812	1210.539	1220.562
35.0	1132.027	1145.948	1178.244	1204.971	1214.994
35.5	1125.345	1139.266	1172.118	1199.403	1209.426
36.0	1117.550	1132.584	1165.993	1193.278	1203.858
36.5	1109.754	1125.902	1159.311	1187.710	1197.732
37.0	1101.958	1118.663	1153.186	1181.585	1191.607
37.5	1094.720	1111.981	1146.504	1175.459	1185.482
38.0	1086.924	1104.186	1140.379	1168.778	1179.357
38.5	1079.129	1096.947	1133.697	1162.652	1173.232
39.0	1071.333	1089.708	1126.459	1155.971	1166.550
39.5	1063.537	1082.470	1119.777	1149.289	1159.868
40.0	1055.185	1075.231	1113.095	1142.607	1153.186
40.5	1047.389	1066.878	1105.856	1135.368	1146.504
41.0	1039.037	1059.083	1098.617	1128.129	1139.266
41.5	1030.685	1051.287	1090.822	1121.447	1132.027
42.0	1022.332	1043.492	1083.583	1113.652	1124.788
42.5	1013.980	1035.139	1075.788	1106.413	1116.993
43.0	1005.071	1026.787	1067.992	1099.174	1109.754
43.5	996.161	1018.435	1060.196	1091.379	1101.958
44.0	987.252	1010.082	1052.401	1083.583	1094.163
44.5	978.343	1001.730	1044.049	1075.231	1086.367
45.0	968.877	992.821	1036.253	1067.435	1078.572
45.5	959.968	984.468	1028.457	1059.083	1070.219
46.0	950.502	975.559	1020.105	1050.730	1061.310
46.5	941.036	966.650	1011.753	1042.378	1052.958
47.0	931.013	957.741	1002.843	1033.469	1044.049
47.5	921.547	948.831	994.491	1025.116	1035.696
48.0	912.081	939.922	985.582	1016.207	1026.230
48.5	902.058	931.570	977.229	1007.855	1017.321
49.0	892.592	922.104	968.320	998.946	1007.855
49.5	883.126	913.194	959.411	989.480	998.389
50.0	873.660	904.285	950.502	980.014	989.480
50.5	863.637	895.376	941.593	970.548	980.014
51.0	854.171	885.910	932.127	961.081	969.991
51.5	844.148	876.444	923.217	951.615	959.968
52.0	834.125	866.978	913.751	941.593	949.945
52.5	824.102	857.512	904.285	931.570	939.922
53.0	814.079	848.046	894.819	921.547	929.342
53.5	804.057	838.580	885.353	911.524	918.206
54.0	794.034	829.114	875.330	900.944	907.069
54.5	783.454	819.648	865.864	890.365	895.933

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**CANDELA TABULATION - (Cont.)**

55.0	772.874	810.182	855.841	879.228	884.796
55.5	762.851	800.159	845.262	868.092	873.103
56.0	752.272	790.136	835.239	856.398	861.410
56.5	741.692	780.113	824.659	845.262	849.159
57.0	731.112	770.090	814.079	833.012	836.352
57.5	719.976	760.067	803.500	821.318	822.989
58.0	709.396	749.488	792.920	809.068	810.182
58.5	698.816	739.465	781.784	796.818	796.261
59.0	688.237	729.442	770.647	784.011	782.897
59.5	677.657	719.419	760.067	770.647	768.977
60.0	666.521	709.396	748.931	757.840	753.942
60.5	655.941	699.373	737.794	744.476	739.465
61.0	644.804	688.794	727.215	731.112	723.874
61.5	634.225	678.771	716.078	717.192	708.283
62.0	623.088	668.191	704.385	703.271	691.578
62.5	611.952	658.168	692.135	688.237	674.873
63.0	600.815	647.588	680.441	673.202	657.611
63.5	589.679	636.452	668.191	657.611	639.236
64.0	578.542	625.872	655.941	640.907	620.304
64.5	566.849	615.293	642.577	624.202	600.815
65.0	555.211	604.156	629.770	605.827	579.656
65.5	543.462	593.020	616.406	586.338	557.383
66.0	531.323	581.326	601.929	566.292	533.940
66.5	519.073	569.633	587.451	545.968	510.220
67.0	506.934	557.383	572.974	523.862	485.385
67.5	494.461	545.634	557.383	501.644	460.384
68.0	481.821	533.551	541.012	478.480	436.719
68.5	469.181	521.189	524.419	455.261	412.942
69.0	456.263	508.660	507.268	432.153	387.439
69.5	444.236	496.188	489.728	409.100	361.603
70.0	433.099	483.603	471.743	384.377	336.713
70.5	422.352	470.685	454.259	359.654	312.435
71.0	409.378	458.045	435.716	335.209	289.271
71.5	396.126	447.020	416.784	311.099	267.388
72.0	383.041	433.990	397.351	287.935	246.117
72.5	369.955	422.464	375.356	265.495	225.737
73.0	356.758	409.712	353.529	244.614	207.362
73.5	344.063	396.293	330.643	225.292	190.546
74.0	331.256	382.762	308.147	206.861	175.122
74.5	318.504	368.786	285.373	189.766	160.867
75.0	305.363	354.698	262.766	173.952	147.559
75.5	292.723	340.221	240.994	159.308	135.698
76.0	280.529	325.409	219.891	146.000	124.562
76.5	267.722	310.765	200.068	133.917	114.595
77.0	255.360	295.563	181.804	122.836	105.519
77.5	242.553	280.306	164.988	112.924	97.222
78.0	230.303	264.604	149.452	104.071	90.039
78.5	217.997	248.010	135.420	95.774	83.357
79.0	205.691	231.417	123.059	88.201	77.009
79.5	193.553	214.545	111.699	81.352	71.441
80.0	181.637	197.339	101.454	75.060	66.485
80.5	169.665	179.743	92.210	69.436	61.975
81.0	157.470	162.482	83.691	64.202	57.854
81.5	145.499	145.220	75.895	59.469	53.845
82.0	133.861	128.682	68.879	55.014	49.780
82.5	122.335	113.537	62.532	50.671	45.938

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**CANDELA TABULATION - (Cont.)**

83.0	110.586	99.505	56.685	46.217	42.207
83.5	99.282	87.310	51.395	42.152	38.811
84.0	88.368	76.452	46.217	38.310	35.637
84.5	78.512	66.819	41.149	34.635	32.686
85.0	69.381	58.188	36.249	31.349	30.124
85.5	61.028	50.281	31.683	28.454	28.120
86.0	52.453	42.987	27.452	26.059	26.282
86.5	44.045	36.194	23.609	23.609	23.888
87.0	35.693	29.567	20.324	20.658	20.380
87.5	27.897	23.331	17.150	16.760	16.482
88.0	20.714	17.596	13.420	13.475	13.921
88.5	14.310	12.306	9.633	10.691	10.858
89.0	8.909	7.684	6.459	6.571	6.515
89.5	4.232	3.953	3.063	3.063	2.840
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-L40-850-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-L40-850-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-L40-850-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	509.43	N.A.	11.80
0-30	1099.21	N.A.	25.60
0-40	1835.14	N.A.	42.70
0-60	3382.28	N.A.	78.60
0-80	4246.92	N.A.	98.70
0-90	4301.58	N.A.	100.00
10-90	4171.18	N.A.	97.00
20-40	1325.71	N.A.	30.80
20-50	2120.24	N.A.	49.30
40-70	2134.97	N.A.	49.60
60-80	864.64	N.A.	20.10
70-80	276.82	N.A.	6.40
80-90	54.66	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	4301.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	130.40
10-20	379.03
20-30	589.78
30-40	735.93
40-50	794.53
50-60	752.61
60-70	587.82
70-80	276.82
80-90	54.66
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-L40-850-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	88	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-L40-850-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

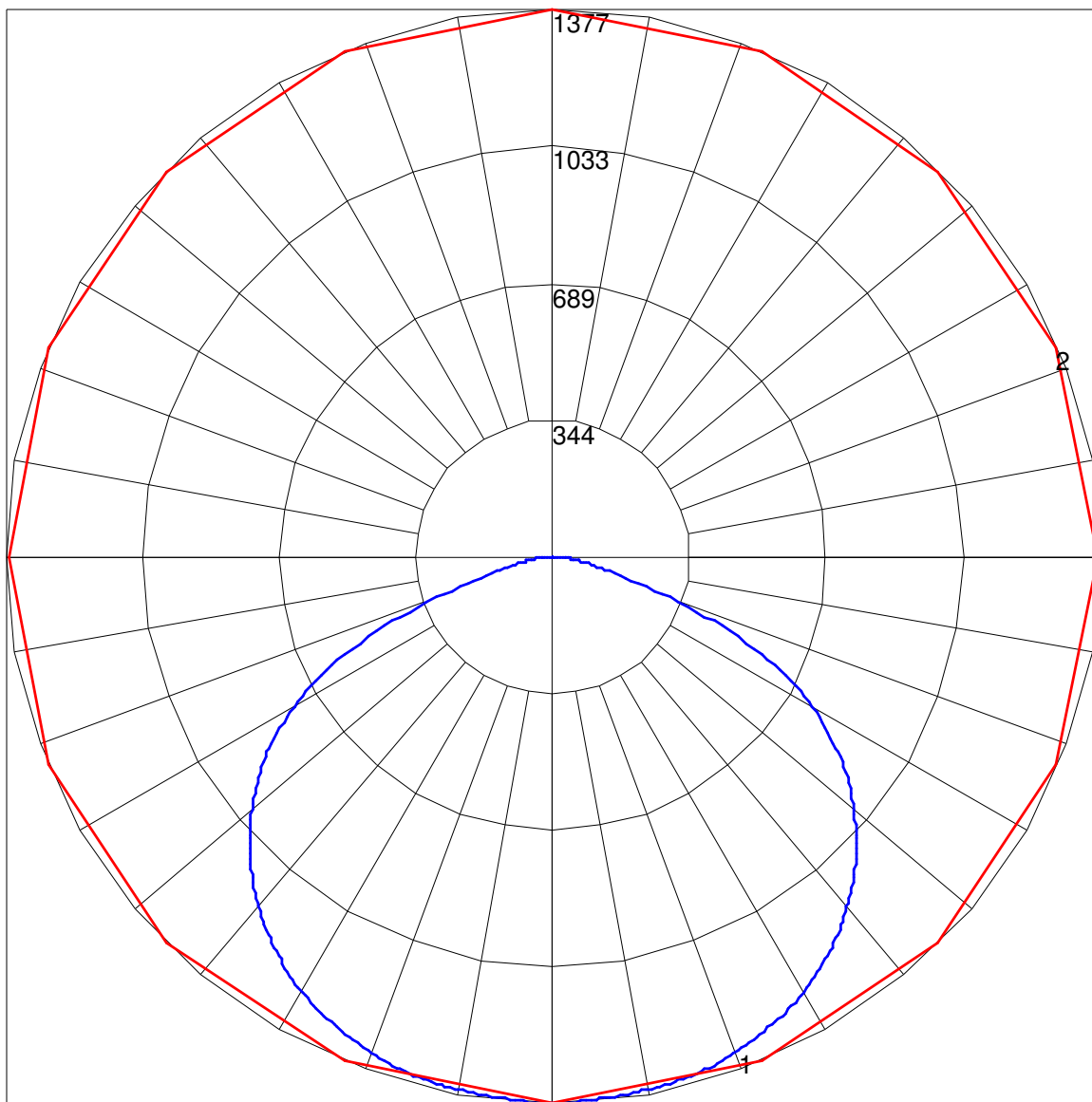
Reflectances

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	14.8	16.5	15.2	16.8	17.1	15.4	17.1	15.8	17.4	17.7
	3H	16.8	18.3	17.2	18.6	19.0	16.8	18.3	17.2	18.6	19.0
	4H	17.5	18.9	17.9	19.3	19.7	16.9	18.4	17.3	18.7	19.1
	6H	18.0	19.4	18.5	19.7	20.1	17.0	18.3	17.4	18.7	19.1
	8H	18.2	19.4	18.6	19.8	20.2	17.0	18.3	17.4	18.7	19.1
	12H	18.2	19.5	18.7	19.8	20.3	17.0	18.2	17.4	18.6	19.0
4H	2H	15.6	17.0	16.0	17.4	17.8	16.1	17.5	16.5	17.8	18.2
	3H	17.8	19.0	18.2	19.4	19.8	17.6	18.8	18.0	19.2	19.6
	4H	18.7	19.8	19.1	20.2	20.6	17.9	18.9	18.3	19.3	19.8
	6H	19.4	20.3	19.8	20.7	21.2	18.0	18.9	18.4	19.3	19.8
	8H	19.5	20.4	20.0	20.8	21.3	18.0	18.8	18.4	19.3	19.8
	12H	19.6	20.4	20.1	20.9	21.4	18.0	18.8	18.5	19.2	19.7
8H	4H	18.9	19.8	19.4	20.2	20.7	18.1	19.0	18.6	19.4	19.9
	6H	19.6	20.4	20.1	20.9	21.3	18.3	19.0	18.7	19.5	19.9
	8H	19.9	20.5	20.4	21.0	21.5	18.3	18.9	18.8	19.4	19.9
	12H	20.0	20.6	20.5	21.1	21.6	18.3	18.9	18.8	19.4	19.9
12H	4H	18.9	19.7	19.4	20.2	20.6	18.2	18.9	18.6	19.4	19.9
	6H	19.7	20.3	20.2	20.8	21.3	18.3	19.0	18.8	19.4	20.0
	8H	19.9	20.5	20.4	21.0	21.5	18.4	18.9	18.9	19.4	20.0

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 1377.03 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.)