



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-24-L40-940-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-L40-940-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	3490
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
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	1592	1703	1772
55	1566	1734	1792
65	1526	1731	1594
75	1371	1180	662
85	925	483	402

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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	1115.406	1115.406	1115.406	1115.406	1115.406
0.5	1114.503	1115.406	1114.503	1116.310	1117.213
1.0	1114.051	1114.955	1114.051	1115.858	1117.213
1.5	1114.051	1114.955	1113.599	1115.858	1116.762
2.0	1113.599	1114.503	1113.599	1115.406	1116.310
2.5	1113.599	1114.051	1113.147	1114.955	1115.858
3.0	1113.147	1113.599	1112.244	1114.051	1115.406
3.5	1112.696	1113.147	1111.792	1113.599	1114.503
4.0	1112.696	1112.696	1110.889	1113.147	1114.051
4.5	1111.792	1111.792	1110.437	1112.696	1113.599
5.0	1111.340	1111.340	1109.533	1111.792	1112.696
5.5	1110.889	1110.437	1109.082	1111.340	1112.244
6.0	1109.985	1109.533	1108.178	1110.889	1111.792
6.5	1109.082	1108.178	1107.275	1109.985	1111.340
7.0	1108.178	1107.275	1106.823	1109.533	1110.889
7.5	1107.275	1106.371	1105.467	1108.630	1109.985
8.0	1105.919	1105.016	1104.564	1108.178	1109.533
8.5	1105.016	1103.660	1103.660	1107.275	1109.082
9.0	1103.660	1102.757	1102.757	1106.823	1108.630
9.5	1102.305	1101.402	1101.853	1105.919	1107.726
10.0	1100.498	1100.046	1100.498	1105.016	1107.275
10.5	1099.595	1098.239	1099.595	1104.564	1106.823
11.0	1097.788	1096.884	1098.239	1103.660	1105.919
11.5	1095.980	1095.077	1096.884	1102.757	1105.016
12.0	1094.173	1093.270	1095.529	1101.853	1104.564
12.5	1092.366	1091.463	1094.173	1100.950	1103.209
13.0	1090.108	1089.656	1092.818	1100.046	1102.757
13.5	1088.300	1087.849	1091.463	1098.691	1101.853
14.0	1086.042	1085.590	1089.656	1097.336	1100.950
14.5	1083.331	1083.783	1087.849	1095.980	1100.046
15.0	1081.524	1081.524	1086.042	1095.077	1098.691
15.5	1078.813	1078.813	1084.235	1093.270	1097.788
16.0	1076.555	1076.555	1082.428	1091.915	1095.980
16.5	1074.296	1074.296	1080.620	1090.108	1094.625
17.0	1071.585	1071.585	1078.362	1088.300	1093.270
17.5	1068.875	1069.326	1076.103	1086.493	1091.463
18.0	1066.164	1066.616	1074.296	1084.686	1089.656
18.5	1063.453	1064.357	1072.037	1082.428	1087.397
19.0	1060.291	1061.646	1069.778	1080.620	1085.138
19.5	1057.580	1058.484	1067.519	1078.362	1082.879
20.0	1054.418	1055.773	1065.260	1076.103	1080.620
20.5	1051.256	1053.063	1062.550	1073.844	1078.362
21.0	1048.093	1049.900	1059.839	1071.585	1075.651
21.5	1044.479	1046.738	1057.129	1068.875	1073.392
22.0	1041.317	1043.576	1054.418	1066.616	1071.133
22.5	1037.703	1040.413	1051.708	1063.905	1068.875
23.0	1034.540	1037.251	1048.997	1061.646	1066.616
23.5	1030.475	1033.637	1045.835	1058.936	1063.905
24.0	1026.409	1030.023	1042.672	1056.225	1061.646
24.5	1022.795	1026.409	1039.510	1053.966	1059.388
25.0	1018.729	1022.795	1036.799	1051.256	1056.677
25.5	1014.663	1018.729	1033.185	1048.545	1054.418
26.0	1010.597	1014.663	1030.023	1045.835	1052.159
26.5	1006.079	1010.597	1026.860	1043.124	1049.449

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CANDELA TABULATION - (Cont.)

27.0	1001.562	1006.531	1023.246	1040.413	1046.738
27.5	997.044	1002.013	1020.084	1037.251	1044.028
28.0	992.075	997.948	1016.470	1034.089	1041.317
28.5	987.557	993.430	1012.856	1030.926	1038.155
29.0	982.588	988.912	1008.790	1027.312	1034.992
29.5	977.618	984.395	1005.176	1023.698	1031.378
30.0	972.649	979.877	1001.110	1020.084	1027.764
30.5	967.228	974.908	997.044	1016.470	1024.150
31.0	962.258	970.390	992.526	1012.404	1020.084
31.5	957.289	965.421	988.461	1008.338	1016.018
32.0	951.868	960.903	983.943	1004.272	1011.952
32.5	946.446	955.933	979.425	999.755	1007.886
33.0	941.477	950.512	974.908	995.689	1003.369
33.5	935.604	945.543	970.390	991.171	999.303
34.0	930.183	940.122	965.421	986.653	994.785
34.5	924.310	935.152	960.451	982.136	990.268
35.0	918.437	929.731	955.933	977.618	985.750
35.5	913.016	924.310	950.964	973.101	981.232
36.0	906.691	918.889	945.995	968.131	976.715
36.5	900.366	913.468	940.573	963.613	971.745
37.0	894.042	907.595	935.604	958.644	966.776
37.5	888.169	902.174	930.183	953.675	961.806
38.0	881.844	895.849	925.214	948.253	956.837
38.5	875.519	889.976	919.792	943.284	951.868
39.0	869.195	884.103	913.919	937.863	946.446
39.5	862.870	878.230	908.498	932.442	941.025
40.0	856.094	872.357	903.077	927.021	935.604
40.5	849.769	865.581	897.204	921.148	930.183
41.0	842.992	859.256	891.331	915.275	924.310
41.5	836.216	852.931	885.006	909.854	918.437
42.0	829.439	846.606	879.134	903.529	912.564
42.5	822.663	839.830	872.809	897.656	906.239
43.0	815.435	833.054	866.484	891.783	900.366
43.5	808.207	826.277	860.159	885.458	894.042
44.0	800.978	819.501	853.835	879.134	887.717
44.5	793.750	812.724	847.058	872.357	881.392
45.0	786.070	805.496	840.734	866.032	875.068
45.5	778.842	798.719	834.409	859.256	868.291
46.0	771.162	791.491	827.632	852.479	861.063
46.5	763.482	784.263	820.856	845.703	854.286
47.0	755.350	777.035	813.628	838.475	847.058
47.5	747.670	769.807	806.851	831.698	840.282
48.0	739.990	762.578	799.623	824.470	832.602
48.5	731.858	755.802	792.847	817.694	825.374
49.0	724.178	748.122	785.618	810.465	817.694
49.5	716.498	740.894	778.390	802.785	810.014
50.0	708.818	733.665	771.162	795.105	802.785
50.5	700.687	726.437	763.934	787.425	795.105
51.0	693.007	718.757	756.254	779.745	786.974
51.5	684.875	711.077	749.025	772.065	778.842
52.0	676.743	703.397	741.345	763.934	770.710
52.5	668.611	695.717	733.665	755.802	762.578
53.0	660.480	688.037	725.985	747.670	753.995
53.5	652.348	680.357	718.305	739.538	744.960
54.0	644.216	672.677	710.174	730.955	735.924
54.5	635.633	664.997	702.494	722.371	726.889

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CANDELA TABULATION - (Cont.)

55.0	627.049	657.317	694.362	713.336	717.854
55.5	618.917	649.185	685.778	704.301	708.367
56.0	610.334	641.054	677.647	694.814	698.880
56.5	601.750	632.922	669.063	685.778	688.941
57.0	593.167	624.790	660.480	675.840	678.550
57.5	584.131	616.658	651.896	666.352	667.708
58.0	575.548	608.075	643.313	656.414	657.317
58.5	566.964	599.943	634.277	646.475	646.023
59.0	558.381	591.811	625.242	636.084	635.181
59.5	549.797	583.680	616.658	625.242	623.887
60.0	540.762	575.548	607.623	614.851	611.689
60.5	532.178	567.416	598.588	604.009	599.943
61.0	523.143	558.833	590.004	593.167	587.294
61.5	514.560	550.701	580.969	581.873	574.644
62.0	505.524	542.117	571.482	570.578	561.091
62.5	496.489	533.986	561.543	558.381	547.538
63.0	487.454	525.402	552.056	546.183	533.534
63.5	478.419	516.367	542.117	533.534	518.626
64.0	469.383	507.783	532.178	519.981	503.266
64.5	459.896	499.200	521.336	506.428	487.454
65.0	450.454	490.164	510.946	491.520	470.287
65.5	440.922	481.129	500.103	475.708	452.216
66.0	431.074	471.642	488.357	459.444	433.197
66.5	421.135	462.155	476.611	442.955	413.952
67.0	411.286	452.216	464.866	425.020	393.803
67.5	401.167	442.684	452.216	406.995	373.519
68.0	390.912	432.881	438.934	388.201	354.319
68.5	380.657	422.851	425.472	369.363	335.028
69.0	370.176	412.687	411.557	350.614	314.338
69.5	360.418	402.567	397.327	331.911	293.376
70.0	351.382	392.357	382.735	311.853	273.182
70.5	342.663	381.876	368.549	291.795	253.485
71.0	332.137	371.621	353.506	271.962	234.692
71.5	321.385	362.676	338.146	252.401	216.937
72.0	310.769	352.105	322.379	233.607	199.680
72.5	300.152	342.754	304.534	215.401	183.145
73.0	289.445	332.408	286.825	198.460	168.237
73.5	279.145	321.521	268.258	182.784	154.594
74.0	268.755	310.543	250.006	167.830	142.080
74.5	258.409	299.204	231.529	153.961	130.515
75.0	247.748	287.774	213.188	141.131	119.718
75.5	237.493	276.028	195.524	129.250	110.095
76.0	227.599	264.011	178.402	118.453	101.060
76.5	217.208	252.130	162.319	108.649	92.973
77.0	207.179	239.797	147.501	99.659	85.609
77.5	196.789	227.418	133.858	91.618	78.878
78.0	186.850	214.678	121.254	84.435	73.050
78.5	176.866	201.216	109.869	77.703	67.629
79.0	166.882	187.753	99.840	71.559	62.479
79.5	157.033	174.065	90.624	66.003	57.961
80.0	147.366	160.105	82.311	60.898	53.941
80.5	137.653	145.830	74.812	56.335	50.281
81.0	127.759	131.825	67.900	52.088	46.938
81.5	118.046	117.820	61.575	48.248	43.686
82.0	108.604	104.403	55.883	44.634	40.388
82.5	99.253	92.115	50.733	41.111	37.271

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CANDELA TABULATION - (Cont.)

83.0	89.720	80.730	45.990	37.496	34.244
83.5	80.550	70.837	41.698	34.199	31.488
84.0	71.695	62.027	37.496	31.081	28.913
84.5	63.699	54.212	33.385	28.100	26.519
85.0	56.290	47.209	29.410	25.434	24.440
85.5	49.513	40.794	25.705	23.085	22.814
86.0	42.556	34.876	22.272	21.143	21.323
86.5	35.735	29.365	19.155	19.155	19.381
87.0	28.958	23.989	16.489	16.760	16.535
87.5	22.633	18.929	13.914	13.598	13.372
88.0	16.806	14.276	10.888	10.933	11.294
88.5	11.610	9.984	7.816	8.674	8.809
89.0	7.228	6.234	5.240	5.331	5.286
89.5	3.433	3.208	2.485	2.485	2.304
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-L40-940-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-L40-940-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-L40-940-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	413.31	N.A.	11.80
0-30	891.81	N.A.	25.60
0-40	1488.88	N.A.	42.70
0-60	2744.11	N.A.	78.60
0-80	3445.61	N.A.	98.70
0-90	3489.96	N.A.	100.00
10-90	3384.17	N.A.	97.00
20-40	1075.57	N.A.	30.80
20-50	1720.19	N.A.	49.30
40-70	1732.14	N.A.	49.60
60-80	701.50	N.A.	20.10
70-80	224.59	N.A.	6.40
80-90	44.35	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	3489.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	105.79
10-20	307.52
20-30	478.50
30-40	597.07
40-50	644.62
50-60	610.61
60-70	476.91
70-80	224.59
80-90	44.35
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-L40-940-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

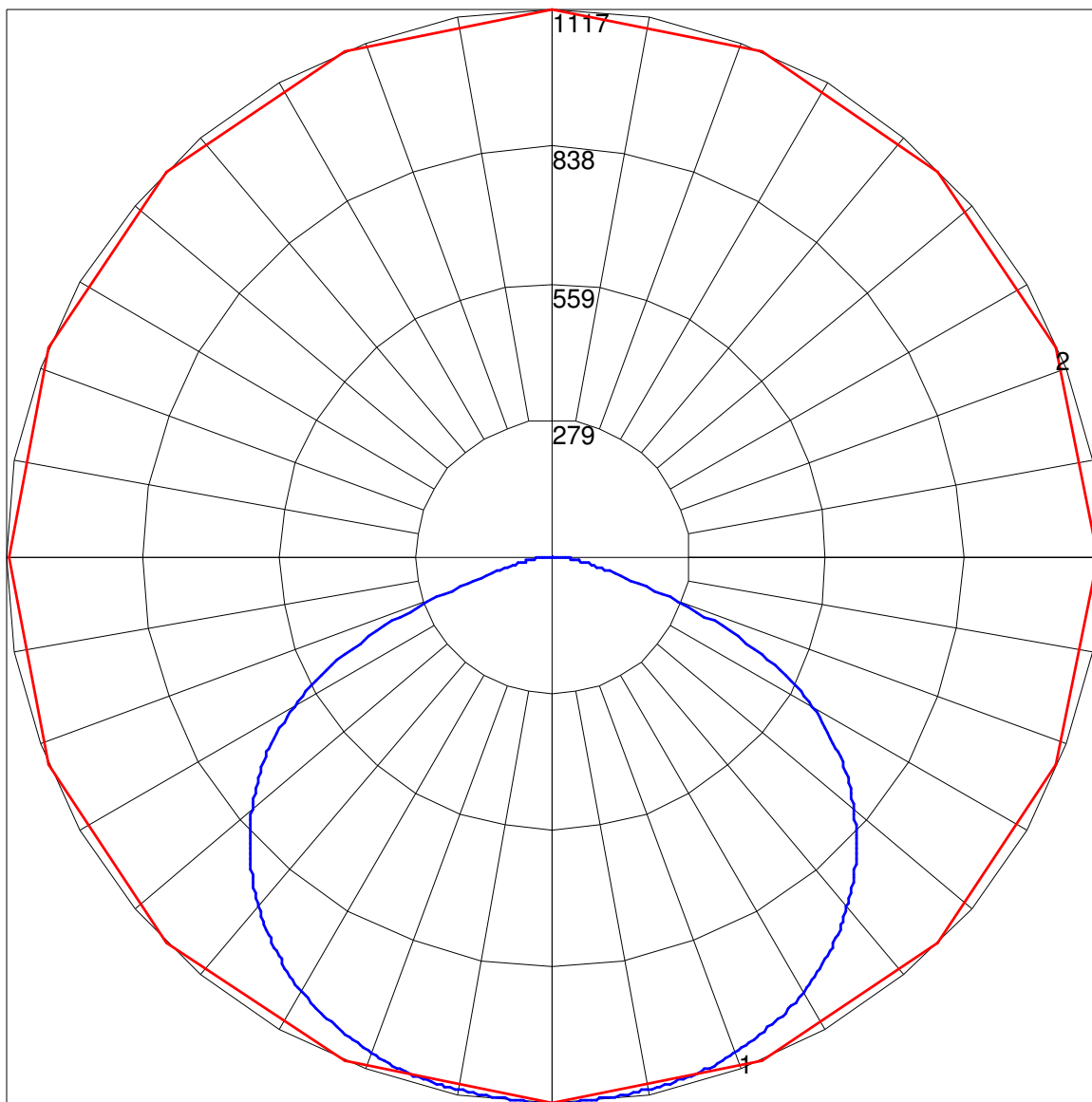
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-24-L40-940-DIM-UNV_.IES

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	14.0	15.7	14.4	16.0	16.3	14.6	16.3	15.0	16.6	16.9
	3H	16.0	17.5	16.4	17.8	18.2	16.0	17.5	16.4	17.8	18.2
	4H	16.7	18.1	17.1	18.5	18.9	16.1	17.6	16.5	17.9	18.3
	6H	17.2	18.6	17.7	18.9	19.3	16.2	17.5	16.6	17.9	18.3
	8H	17.4	18.6	17.8	19.0	19.4	16.2	17.5	16.6	17.9	18.3
	12H	17.4	18.7	17.9	19.0	19.5	16.2	17.4	16.6	17.8	18.2
4H	2H	14.8	16.2	15.2	16.6	17.0	15.3	16.7	15.7	17.0	17.4
	3H	17.0	18.2	17.4	18.6	19.0	16.8	18.0	17.2	18.4	18.8
	4H	17.9	19.0	18.3	19.4	19.8	17.1	18.1	17.5	18.5	19.0
	6H	18.6	19.5	19.0	19.9	20.4	17.2	18.1	17.6	18.5	19.0
	8H	18.7	19.6	19.2	20.0	20.5	17.2	18.0	17.6	18.5	19.0
	12H	18.8	19.6	19.3	20.1	20.6	17.2	18.0	17.7	18.4	18.9
8H	4H	18.1	19.0	18.6	19.4	19.9	17.3	18.2	17.8	18.6	19.1
	6H	18.8	19.6	19.3	20.1	20.5	17.5	18.2	17.9	18.7	19.1
	8H	19.1	19.7	19.6	20.2	20.7	17.5	18.1	18.0	18.6	19.1
	12H	19.2	19.8	19.7	20.3	20.8	17.5	18.1	18.0	18.6	19.1
12H	4H	18.1	18.9	18.6	19.4	19.8	17.4	18.1	17.8	18.6	19.1
	6H	18.9	19.5	19.4	20.0	20.5	17.5	18.2	18.0	18.6	19.2
	8H	19.1	19.7	19.6	20.2	20.7	17.6	18.1	18.1	18.6	19.2

Maximum UGR = 20.8

POLAR GRAPH



Maximum Candela = 1117.213 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.)