



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-24-L40-930-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-L40-930-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	3368
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
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	1537	1643	1711
55	1511	1673	1730
65	1473	1671	1538
75	1323	1139	639
85	893	466	388

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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	1076.497	1076.497	1076.497	1076.497	1076.497
0.5	1075.625	1076.497	1075.625	1077.369	1078.241
1.0	1075.189	1076.061	1075.189	1076.933	1078.241
1.5	1075.189	1076.061	1074.753	1076.933	1077.805
2.0	1074.753	1075.625	1074.753	1076.497	1077.369
2.5	1074.753	1075.189	1074.317	1076.061	1076.933
3.0	1074.317	1074.753	1073.445	1075.189	1076.497
3.5	1073.881	1074.317	1073.009	1074.753	1075.625
4.0	1073.881	1073.881	1072.137	1074.317	1075.189
4.5	1073.009	1073.009	1071.701	1073.881	1074.753
5.0	1072.573	1072.573	1070.829	1073.009	1073.881
5.5	1072.137	1071.701	1070.393	1072.573	1073.445
6.0	1071.265	1070.829	1069.521	1072.137	1073.009
6.5	1070.393	1069.521	1068.649	1071.265	1072.573
7.0	1069.521	1068.649	1068.213	1070.829	1072.137
7.5	1068.649	1067.777	1066.905	1069.957	1071.265
8.0	1067.341	1066.469	1066.033	1069.521	1070.829
8.5	1066.469	1065.161	1065.161	1068.649	1070.393
9.0	1065.161	1064.289	1064.289	1068.213	1069.957
9.5	1063.853	1062.981	1063.417	1067.341	1069.085
10.0	1062.109	1061.673	1062.109	1066.469	1068.649
10.5	1061.237	1059.929	1061.237	1066.033	1068.213
11.0	1059.493	1058.621	1059.929	1065.161	1067.341
11.5	1057.749	1056.877	1058.621	1064.289	1066.469
12.0	1056.005	1055.133	1057.313	1063.417	1066.033
12.5	1054.261	1053.389	1056.005	1062.545	1064.725
13.0	1052.081	1051.645	1054.697	1061.673	1064.289
13.5	1050.337	1049.901	1053.389	1060.365	1063.417
14.0	1048.157	1047.721	1051.645	1059.057	1062.545
14.5	1045.540	1045.976	1049.901	1057.749	1061.673
15.0	1043.796	1043.796	1048.157	1056.877	1060.365
15.5	1041.180	1041.180	1046.412	1055.133	1059.493
16.0	1039.000	1039.000	1044.668	1053.825	1057.749
16.5	1036.820	1036.820	1042.924	1052.081	1056.441
17.0	1034.204	1034.204	1040.744	1050.337	1055.133
17.5	1031.588	1032.024	1038.564	1048.593	1053.389
18.0	1028.972	1029.408	1036.820	1046.848	1051.645
18.5	1026.356	1027.228	1034.640	1044.668	1049.465
19.0	1023.304	1024.612	1032.460	1042.924	1047.285
19.5	1020.688	1021.560	1030.280	1040.744	1045.104
20.0	1017.636	1018.944	1028.100	1038.564	1042.924
20.5	1014.584	1016.328	1025.484	1036.384	1040.744
21.0	1011.532	1013.276	1022.868	1034.204	1038.128
21.5	1008.044	1010.224	1020.252	1031.588	1035.948
22.0	1004.992	1007.172	1017.636	1029.408	1033.768
22.5	1001.504	1004.120	1015.020	1026.792	1031.588
23.0	998.452	1001.068	1012.404	1024.612	1029.408
23.5	994.528	997.580	1009.352	1021.996	1026.792
24.0	990.604	994.092	1006.300	1019.380	1024.612
24.5	987.116	990.604	1003.248	1017.200	1022.432
25.0	983.192	987.116	1000.632	1014.584	1019.816
25.5	979.268	983.192	997.144	1011.968	1017.636
26.0	975.344	979.268	994.092	1009.352	1015.456
26.5	970.984	975.344	991.040	1006.736	1012.840

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CANDELA TABULATION - (Cont.)

27.0	966.624	971.420	987.552	1004.120	1010.224
27.5	962.263	967.060	984.500	1001.068	1007.608
28.0	957.467	963.135	981.012	998.016	1004.992
28.5	953.107	958.775	977.524	994.964	1001.940
29.0	948.311	954.415	973.600	991.476	998.888
29.5	943.515	950.055	970.112	987.988	995.400
30.0	938.719	945.695	966.188	984.500	991.912
30.5	933.487	940.899	962.263	981.012	988.424
31.0	928.691	936.539	957.903	977.088	984.500
31.5	923.895	931.743	953.979	973.164	980.576
32.0	918.663	927.383	949.619	969.240	976.652
32.5	913.431	922.587	945.259	964.880	972.728
33.0	908.635	917.355	940.899	960.955	968.368
33.5	902.967	912.559	936.539	956.595	964.444
34.0	897.735	907.327	931.743	952.235	960.083
34.5	892.067	902.531	926.947	947.875	955.723
35.0	886.399	897.299	922.587	943.515	951.363
35.5	881.167	892.067	917.791	939.155	947.003
36.0	875.062	886.835	912.995	934.359	942.643
36.5	868.958	881.603	907.763	929.999	937.847
37.0	862.854	875.934	902.967	925.203	933.051
37.5	857.186	870.702	897.735	920.407	928.255
38.0	851.082	864.598	892.939	915.175	923.459
38.5	844.978	858.930	887.707	910.379	918.663
39.0	838.874	853.262	882.039	905.147	913.431
39.5	832.770	847.594	876.806	899.915	908.199
40.0	826.230	841.926	871.574	894.683	902.967
40.5	820.126	835.386	865.906	889.015	897.735
41.0	813.586	829.282	860.238	883.347	892.067
41.5	807.046	823.178	854.134	878.114	886.399
42.0	800.506	817.074	848.466	872.010	880.731
42.5	793.965	810.534	842.362	866.342	874.626
43.0	786.989	803.994	836.258	860.674	868.958
43.5	780.013	797.454	830.154	854.570	862.854
44.0	773.037	790.913	824.050	848.466	856.750
44.5	766.061	784.373	817.510	841.926	850.646
45.0	758.649	777.397	811.406	835.822	844.542
45.5	751.673	770.857	805.302	829.282	838.002
46.0	744.261	763.881	798.762	822.742	831.026
46.5	736.849	756.905	792.221	816.202	824.486
47.0	729.001	749.929	785.245	809.226	817.510
47.5	721.589	742.953	778.705	802.686	810.970
48.0	714.177	735.977	771.729	795.709	803.558
48.5	706.328	729.437	765.189	789.169	796.582
49.0	698.916	722.025	758.213	782.193	789.169
49.5	691.504	715.049	751.237	774.781	781.757
50.0	684.092	708.072	744.261	767.369	774.781
50.5	676.244	701.096	737.285	759.957	767.369
51.0	668.832	693.684	729.873	752.545	759.521
51.5	660.984	686.272	722.897	745.133	751.673
52.0	653.136	678.860	715.485	737.285	743.825
52.5	645.288	671.448	708.072	729.437	735.977
53.0	637.440	664.036	700.660	721.589	727.693
53.5	629.592	656.624	693.248	713.741	718.973
54.0	621.743	649.212	685.400	705.456	710.252
54.5	613.459	641.800	677.988	697.172	701.532

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CANDELA TABULATION - (Cont.)

55.0	605.175	634.388	670.140	688.452	692.812
55.5	597.327	626.539	661.856	679.732	683.656
56.0	589.043	618.691	654.008	670.576	674.500
56.5	580.759	610.843	645.724	661.856	664.908
57.0	572.475	602.995	637.440	652.264	654.880
57.5	563.755	595.147	629.156	643.108	644.416
58.0	555.471	586.863	620.871	633.516	634.388
58.5	547.187	579.015	612.151	623.923	623.487
59.0	538.902	571.167	603.431	613.895	613.023
59.5	530.618	563.319	595.147	603.431	602.123
60.0	521.898	555.471	586.427	593.403	590.351
60.5	513.614	547.623	577.707	582.939	579.015
61.0	504.894	539.338	569.423	572.475	566.807
61.5	496.610	531.490	560.703	561.575	554.599
62.0	487.890	523.206	551.547	550.675	541.518
62.5	479.170	515.358	541.954	538.902	528.438
63.0	470.450	507.074	532.798	527.130	514.922
63.5	461.730	498.354	523.206	514.922	500.534
64.0	453.009	490.070	513.614	501.842	485.710
64.5	443.853	481.786	503.150	488.762	470.450
65.0	434.741	473.066	493.122	474.374	453.881
65.5	425.541	464.346	482.658	459.113	436.441
66.0	416.036	455.189	471.322	443.417	418.085
66.5	406.444	446.033	459.985	427.503	399.512
67.0	396.939	436.441	448.649	410.194	380.066
67.5	387.173	427.242	436.441	392.797	360.489
68.0	377.275	417.780	423.623	374.659	341.959
68.5	367.378	408.101	410.630	356.478	323.341
69.0	357.263	398.291	397.201	338.384	303.372
69.5	347.845	388.524	383.467	320.333	283.142
70.0	339.125	378.671	369.384	300.974	263.652
70.5	330.710	368.555	355.693	281.616	244.643
71.0	320.551	358.658	341.174	262.475	226.505
71.5	310.174	350.025	326.350	243.596	209.370
72.0	299.928	339.822	311.133	225.458	192.714
72.5	289.682	330.797	293.911	207.887	176.757
73.0	279.349	320.813	276.820	191.537	162.368
73.5	269.408	310.305	258.900	176.408	149.201
74.0	259.379	299.710	241.285	161.976	137.124
74.5	249.395	288.766	223.453	148.591	125.962
75.0	239.105	277.735	205.751	136.208	115.541
75.5	229.208	266.399	188.703	124.741	106.254
76.0	219.659	254.801	172.178	114.321	97.534
76.5	209.631	243.335	156.657	104.859	89.730
77.0	199.952	231.432	142.356	96.183	82.623
77.5	189.924	219.485	129.188	88.422	76.127
78.0	180.332	207.190	117.024	81.489	70.502
78.5	170.696	194.197	106.036	74.993	65.270
79.0	161.060	181.204	96.357	69.063	60.300
79.5	151.555	167.993	87.463	63.700	55.939
80.0	142.225	154.520	79.440	58.774	52.059
80.5	132.851	140.742	72.202	54.370	48.527
81.0	123.302	127.226	65.532	50.271	45.301
81.5	113.928	113.710	59.428	46.565	42.162
82.0	104.816	100.761	53.934	43.077	38.979
82.5	95.790	88.901	48.963	39.676	35.970

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CANDELA TABULATION - (Cont.)

83.0	86.591	77.914	44.385	36.188	33.049
83.5	77.740	68.366	40.243	33.006	30.390
84.0	69.194	59.864	36.188	29.997	27.904
84.5	61.477	52.321	32.221	27.120	25.594
85.0	54.326	45.563	28.384	24.547	23.588
85.5	47.786	39.371	24.809	22.280	22.018
86.0	41.072	33.660	21.495	20.405	20.579
86.5	34.488	28.340	18.487	18.487	18.705
87.0	27.948	23.152	15.914	16.176	15.958
87.5	21.844	18.269	13.429	13.124	12.906
88.0	16.219	13.778	10.508	10.551	10.900
88.5	11.205	9.636	7.543	8.371	8.502
89.0	6.976	6.017	5.058	5.145	5.101
89.5	3.314	3.096	2.398	2.398	2.224
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-L40-930-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-L40-930-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-L40-930-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	398.89	N.A.	11.80
0-30	860.70	N.A.	25.60
0-40	1436.95	N.A.	42.70
0-60	2648.39	N.A.	78.60
0-80	3325.42	N.A.	98.70
0-90	3368.22	N.A.	100.00
10-90	3266.12	N.A.	97.00
20-40	1038.05	N.A.	30.80
20-50	1660.19	N.A.	49.30
40-70	1671.72	N.A.	49.60
60-80	677.03	N.A.	20.10
70-80	216.75	N.A.	6.40
80-90	42.80	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	3368.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	102.10
10-20	296.79
20-30	461.81
30-40	576.24
40-50	622.13
50-60	589.31
60-70	460.28
70-80	216.75
80-90	42.80
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-L40-930-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	43	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

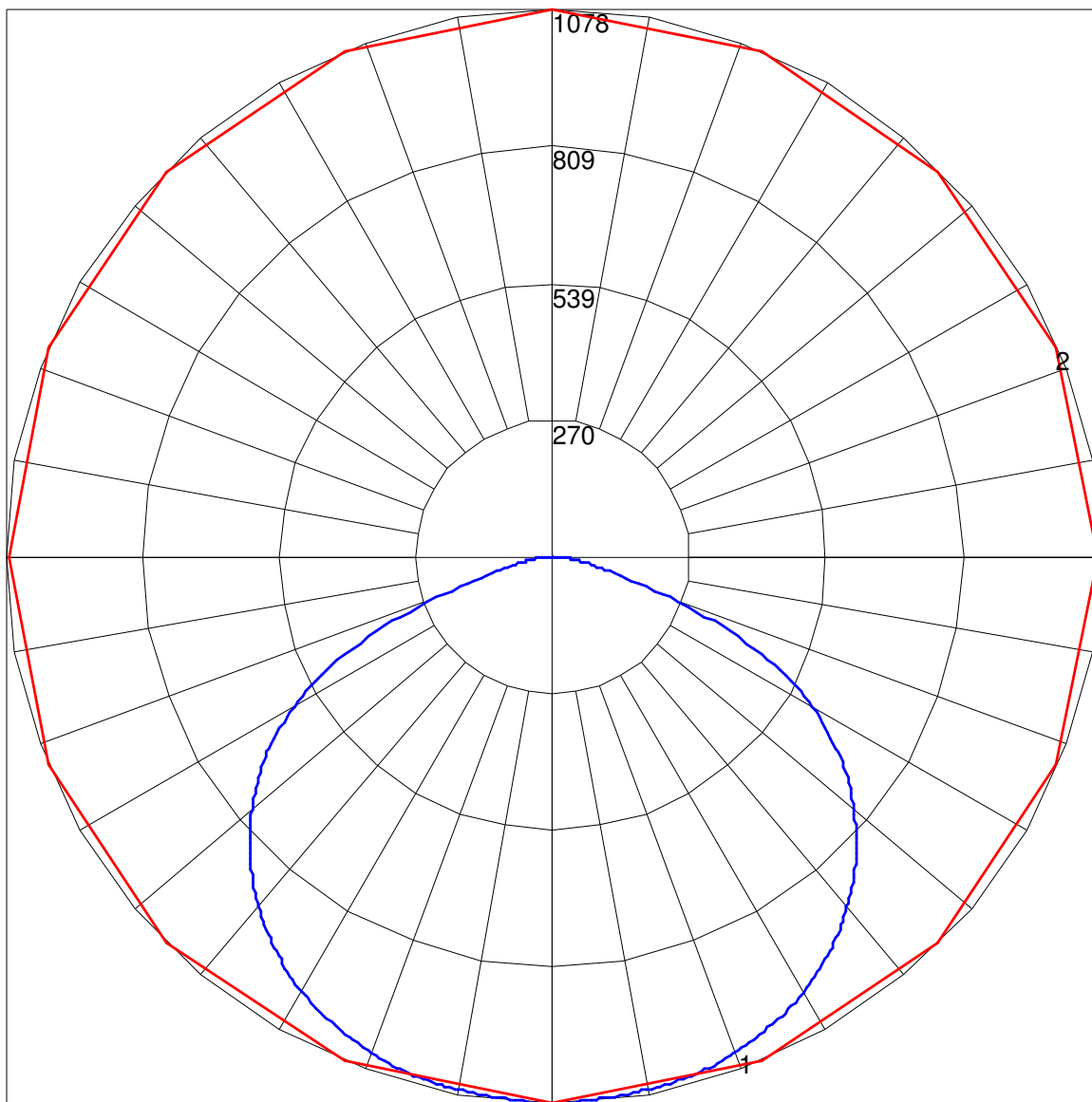
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-24-L40-930-DIM-UNV_.IES

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	13.9	15.6	14.3	15.9	16.2	14.5	16.2	14.9	16.5	16.8
	3H	15.9	17.4	16.3	17.7	18.1	15.9	17.4	16.3	17.7	18.1
	4H	16.6	18.0	17.0	18.4	18.8	16.0	17.5	16.4	17.8	18.2
	6H	17.1	18.5	17.6	18.8	19.2	16.1	17.4	16.5	17.8	18.2
	8H	17.3	18.5	17.7	18.9	19.3	16.1	17.4	16.5	17.8	18.2
	12H	17.3	18.6	17.8	18.9	19.4	16.1	17.3	16.5	17.7	18.1
4H	2H	14.7	16.1	15.1	16.5	16.9	15.2	16.6	15.6	16.9	17.3
	3H	16.9	18.1	17.3	18.5	18.9	16.7	17.9	17.1	18.3	18.7
	4H	17.8	18.9	18.2	19.3	19.7	17.0	18.0	17.4	18.4	18.9
	6H	18.5	19.4	18.9	19.8	20.3	17.1	18.0	17.5	18.4	18.9
	8H	18.6	19.5	19.1	19.9	20.4	17.1	17.9	17.5	18.4	18.9
	12H	18.7	19.5	19.2	20.0	20.5	17.1	17.9	17.6	18.3	18.8
8H	4H	18.0	18.9	18.5	19.3	19.8	17.2	18.1	17.7	18.5	19.0
	6H	18.7	19.5	19.2	20.0	20.4	17.4	18.1	17.8	18.6	19.0
	8H	19.0	19.6	19.5	20.1	20.6	17.4	18.0	17.9	18.5	19.0
	12H	19.1	19.7	19.6	20.2	20.7	17.4	18.0	17.9	18.5	19.0
12H	4H	18.0	18.8	18.5	19.3	19.7	17.3	18.0	17.7	18.5	19.0
	6H	18.8	19.4	19.3	19.9	20.4	17.4	18.1	17.9	18.5	19.1
	8H	19.0	19.6	19.5	20.1	20.6	17.5	18.0	18.0	18.5	19.1

Maximum UGR = 20.7

POLAR GRAPH



Maximum Candela = 1078.241 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.)