



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-24-L40-927-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-L40-927-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	3328
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
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	1518	1624	1690
55	1493	1653	1709
65	1455	1651	1520
75	1307	1125	632
85	882	461	383

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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	1063.527	1063.527	1063.527	1063.527	1063.527
0.5	1062.665	1063.527	1062.665	1064.388	1065.250
1.0	1062.235	1063.096	1062.235	1063.958	1065.250
1.5	1062.235	1063.096	1061.804	1063.958	1064.819
2.0	1061.804	1062.665	1061.804	1063.527	1064.388
2.5	1061.804	1062.235	1061.373	1063.096	1063.958
3.0	1061.373	1061.804	1060.512	1062.235	1063.527
3.5	1060.942	1061.373	1060.081	1061.804	1062.665
4.0	1060.942	1060.942	1059.219	1061.373	1062.235
4.5	1060.081	1060.081	1058.789	1060.942	1061.804
5.0	1059.650	1059.650	1057.927	1060.081	1060.942
5.5	1059.219	1058.789	1057.496	1059.650	1060.512
6.0	1058.358	1057.927	1056.635	1059.219	1060.081
6.5	1057.496	1056.635	1055.773	1058.358	1059.650
7.0	1056.635	1055.773	1055.343	1057.927	1059.219
7.5	1055.773	1054.912	1054.050	1057.066	1058.358
8.0	1054.481	1053.620	1053.189	1056.635	1057.927
8.5	1053.620	1052.327	1052.327	1055.773	1057.496
9.0	1052.327	1051.466	1051.466	1055.343	1057.066
9.5	1051.035	1050.174	1050.604	1054.481	1056.204
10.0	1049.312	1048.881	1049.312	1053.620	1055.773
10.5	1048.451	1047.158	1048.451	1053.189	1055.343
11.0	1046.728	1045.866	1047.158	1052.327	1054.481
11.5	1045.005	1044.143	1045.866	1051.466	1053.620
12.0	1043.282	1042.420	1044.574	1050.604	1053.189
12.5	1041.559	1040.697	1043.282	1049.743	1051.897
13.0	1039.405	1038.974	1041.989	1048.881	1051.466
13.5	1037.682	1037.251	1040.697	1047.589	1050.604
14.0	1035.528	1035.097	1038.974	1046.297	1049.743
14.5	1032.944	1033.374	1037.251	1045.005	1048.881
15.0	1031.221	1031.221	1035.528	1044.143	1047.589
15.5	1028.636	1028.636	1033.805	1042.420	1046.728
16.0	1026.482	1026.482	1032.082	1041.128	1045.005
16.5	1024.328	1024.328	1030.359	1039.405	1043.712
17.0	1021.744	1021.744	1028.205	1037.682	1042.420
17.5	1019.159	1019.590	1026.051	1035.959	1040.697
18.0	1016.575	1017.006	1024.328	1034.236	1038.974
18.5	1013.990	1014.852	1022.175	1032.082	1036.820
19.0	1010.975	1012.267	1020.021	1030.359	1034.667
19.5	1008.391	1009.252	1017.867	1028.205	1032.513
20.0	1005.375	1006.668	1015.713	1026.051	1030.359
20.5	1002.360	1004.083	1013.129	1023.898	1028.205
21.0	999.345	1001.068	1010.544	1021.744	1025.621
21.5	995.899	998.053	1007.960	1019.159	1023.467
22.0	992.884	995.037	1005.375	1017.006	1021.313
22.5	989.438	992.022	1002.791	1014.421	1019.159
23.0	986.422	989.007	1000.206	1012.267	1017.006
23.5	982.546	985.561	997.191	1009.683	1014.421
24.0	978.669	982.115	994.176	1007.098	1012.267
24.5	975.223	978.669	991.161	1004.945	1010.114
25.0	971.346	975.223	988.576	1002.360	1007.529
25.5	967.469	971.346	985.130	999.776	1005.375
26.0	963.592	967.469	982.115	997.191	1003.222
26.5	959.285	963.592	979.100	994.607	1000.637

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**CANDELA TABULATION - (Cont.)**

27.0	954.977	959.716	975.654	992.022	998.053
27.5	950.670	955.408	972.638	989.007	995.468
28.0	945.932	951.531	969.192	985.992	992.884
28.5	941.624	947.224	965.746	982.976	989.868
29.0	936.886	942.916	961.869	979.530	986.853
29.5	932.148	938.609	958.423	976.084	983.407
30.0	927.409	934.301	954.547	972.638	979.961
30.5	922.240	929.563	950.670	969.192	976.515
31.0	917.502	925.256	946.362	965.315	972.638
31.5	912.764	920.517	942.486	961.439	968.761
32.0	907.595	916.210	938.178	957.562	964.885
32.5	902.426	911.471	933.871	953.254	961.008
33.0	897.687	906.302	929.563	949.378	956.700
33.5	892.088	901.564	925.256	945.070	952.824
34.0	886.919	896.395	920.517	940.763	948.516
34.5	881.319	891.657	915.779	936.455	944.209
35.0	875.719	886.488	911.471	932.148	939.901
35.5	870.550	881.319	906.733	927.840	935.594
36.0	864.519	876.150	901.995	923.102	931.286
36.5	858.489	870.981	896.826	918.794	926.548
37.0	852.458	865.381	892.088	914.056	921.809
37.5	846.859	860.212	886.919	909.318	917.071
38.0	840.828	854.181	882.180	904.149	912.333
38.5	834.798	848.582	877.011	899.410	907.595
39.0	828.767	842.982	871.411	894.241	902.426
39.5	822.737	837.382	866.242	889.072	897.257
40.0	816.275	831.782	861.073	883.903	892.088
40.5	810.245	825.321	855.474	878.304	886.919
41.0	803.783	819.290	849.874	872.704	881.319
41.5	797.322	813.260	843.843	867.535	875.719
42.0	790.861	807.229	838.244	861.504	870.119
42.5	784.400	800.768	832.213	855.904	864.089
43.0	777.508	794.307	826.183	850.305	858.489
43.5	770.616	787.846	820.152	844.274	852.458
44.0	763.723	781.384	814.121	838.244	846.428
44.5	756.831	774.923	807.660	831.782	840.397
45.0	749.509	768.031	801.630	825.752	834.367
45.5	742.617	761.570	795.599	819.290	827.906
46.0	735.294	754.678	789.138	812.829	821.013
46.5	727.971	747.786	782.677	806.368	814.552
47.0	720.218	740.894	775.785	799.476	807.660
47.5	712.895	734.002	769.323	793.015	801.199
48.0	705.572	727.110	762.431	786.123	793.876
48.5	697.818	720.648	755.970	779.661	786.984
49.0	690.496	713.325	749.078	772.769	779.661
49.5	683.173	706.433	742.186	765.446	772.339
50.0	675.850	699.541	735.294	758.124	765.446
50.5	668.097	692.649	728.402	750.801	758.124
51.0	660.774	685.327	721.079	743.478	750.370
51.5	653.020	678.004	714.187	736.155	742.617
52.0	645.267	670.681	706.864	728.402	734.863
52.5	637.513	663.358	699.541	720.648	727.110
53.0	629.760	656.035	692.219	712.895	718.925
53.5	622.006	648.713	684.896	705.141	710.310
54.0	614.252	641.390	677.142	696.957	701.695
54.5	606.068	634.067	669.820	688.773	693.080

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**CANDELA TABULATION - (Cont.)**

55.0	597.884	626.744	662.066	680.158	684.465
55.5	590.130	618.991	653.882	671.543	675.419
56.0	581.946	611.237	646.128	662.497	666.373
56.5	573.762	603.484	637.944	653.882	656.897
57.0	565.578	595.730	629.760	644.405	646.990
57.5	556.962	587.977	621.575	635.359	636.652
58.0	548.778	579.792	613.391	625.883	626.744
58.5	540.594	572.039	604.776	616.406	615.976
59.0	532.410	564.285	596.161	606.499	605.637
59.5	524.225	556.532	587.977	596.161	594.869
60.0	515.610	548.778	579.362	586.254	583.238
60.5	507.426	541.025	570.747	575.916	572.039
61.0	498.811	532.840	562.562	565.578	559.978
61.5	490.627	525.087	553.947	554.809	547.917
62.0	482.012	516.903	544.901	544.040	534.994
62.5	473.397	509.149	535.425	532.410	522.072
63.0	464.782	500.965	526.379	520.779	508.718
63.5	456.166	492.350	516.903	508.718	494.503
64.0	447.551	484.165	507.426	495.796	479.858
64.5	438.506	475.981	497.088	482.873	464.782
65.0	429.503	467.366	487.181	468.658	448.413
65.5	420.414	458.751	476.843	453.582	431.183
66.0	411.024	449.705	465.643	438.075	413.048
66.5	401.547	440.659	454.443	422.352	394.698
67.0	392.157	431.183	443.244	405.252	375.487
67.5	382.508	422.094	431.183	388.065	356.146
68.0	372.730	412.747	418.519	370.145	337.839
68.5	362.952	403.184	405.682	352.183	319.446
69.0	352.958	393.492	392.415	334.307	299.717
69.5	343.654	383.843	378.846	316.474	279.730
70.0	335.039	374.108	364.933	297.348	260.476
70.5	326.725	364.115	351.408	278.223	241.695
71.0	316.689	354.337	337.064	259.313	223.776
71.5	306.437	345.808	322.418	240.661	206.847
72.0	296.314	335.728	307.385	222.742	190.392
72.5	286.192	326.812	290.370	205.383	174.627
73.0	275.983	316.947	273.485	189.229	160.412
73.5	266.162	306.566	255.781	174.282	147.403
74.0	256.254	296.099	238.378	160.024	135.472
74.5	246.390	285.287	220.760	146.800	124.444
75.0	236.224	274.389	203.272	134.567	114.149
75.5	226.446	263.190	186.430	123.238	104.974
76.0	217.013	251.732	170.104	112.943	96.359
76.5	207.106	240.403	154.769	103.596	88.649
77.0	197.543	228.643	140.641	95.024	81.628
77.5	187.636	216.841	127.632	87.357	75.209
78.0	178.159	204.693	115.614	80.508	69.653
78.5	168.639	191.857	104.759	74.089	64.484
79.0	159.120	179.021	95.196	68.231	59.573
79.5	149.729	165.969	86.409	62.933	55.265
80.0	140.511	152.659	78.483	58.065	51.432
80.5	131.250	139.047	71.333	53.715	47.943
81.0	121.817	125.693	64.742	49.666	44.755
81.5	112.556	112.340	58.712	46.004	41.654
82.0	103.553	99.547	53.284	42.558	38.509
82.5	94.636	87.830	48.373	39.198	35.537

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

83.0	85.547	76.975	43.851	35.752	32.651
83.5	76.803	67.542	39.758	32.608	30.023
84.0	68.360	59.142	35.752	29.636	27.568
84.5	60.736	51.690	31.833	26.793	25.285
85.0	53.672	45.014	28.042	24.251	23.304
85.5	47.210	38.897	24.510	22.011	21.753
86.0	40.577	33.254	21.236	20.159	20.331
86.5	34.072	27.999	18.264	18.264	18.479
87.0	27.611	22.873	15.722	15.981	15.766
87.5	21.581	18.049	13.267	12.966	12.750
88.0	16.024	13.612	10.381	10.424	10.769
88.5	11.070	9.520	7.452	8.270	8.400
89.0	6.892	5.944	4.997	5.083	5.040
89.5	3.274	3.058	2.369	2.369	2.197
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-L40-927-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-L40-927-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-L40-927-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	394.09	N.A.	11.80
0-30	850.33	N.A.	25.60
0-40	1419.63	N.A.	42.70
0-60	2616.48	N.A.	78.60
0-80	3285.35	N.A.	98.70
0-90	3327.64	N.A.	100.00
10-90	3226.76	N.A.	97.00
20-40	1025.55	N.A.	30.80
20-50	1640.18	N.A.	49.30
40-70	1651.58	N.A.	49.60
60-80	668.87	N.A.	20.10
70-80	214.14	N.A.	6.40
80-90	42.28	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	3327.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	100.87
10-20	293.21
20-30	456.25
30-40	569.30
40-50	614.64
50-60	582.21
60-70	454.73
70-80	214.14
80-90	42.28
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-L40-927-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-L40-927-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

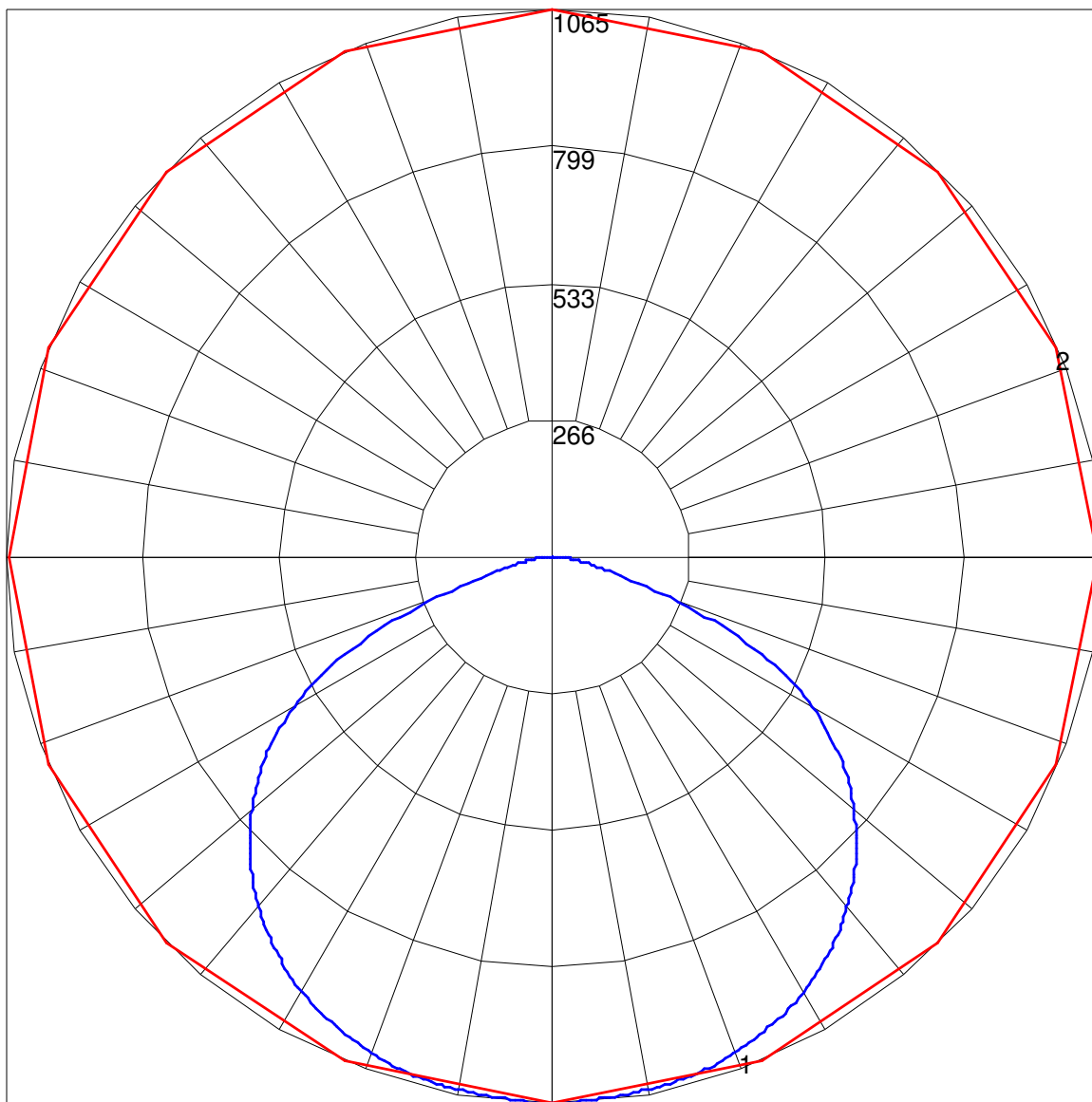
Reflectances

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	16.1	17.5	16.5	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	17.4	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	17.0	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 = 1065.25 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.)