



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-22-L30-840-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GENERATED FROM 15729805.02
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 2025-04-25
 [TESTDATE] 3/21/2025
 [MANUFAC] WILLIAMS INDOOR
 [MORE] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] BAR-22-L30-840-DIM-UNV_
 [LUMINAIRE] Recessed 2 x 2 Indirect LED luminaire
 [MORE] with centered LED rail & white painted housing
 [LAMP] 56 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	3071
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	23.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.38
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 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	2792	3037	3224
55	2713	3094	3292
65	2576	3081	3014
75	2159	2255	1245
85	1533	1315	735

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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	997.630	997.630	997.630	997.630	997.630
0.5	996.831	999.229	997.630	996.831	996.831
1.0	996.031	999.229	997.630	996.831	996.831
1.5	996.031	998.429	997.630	996.031	996.831
2.0	996.031	998.429	996.831	996.031	996.031
2.5	996.031	998.429	996.031	995.232	995.232
3.0	995.232	997.630	995.232	994.432	995.232
3.5	994.432	996.831	994.432	994.432	994.432
4.0	993.633	996.031	994.432	993.633	993.633
4.5	992.834	995.232	992.834	992.834	992.834
5.0	992.034	993.633	992.034	992.034	992.834
5.5	991.235	992.834	991.235	991.235	992.034
6.0	989.636	992.034	990.436	990.436	991.235
6.5	988.837	990.436	989.636	990.436	990.436
7.0	988.037	989.636	988.837	989.636	990.436
7.5	986.439	988.037	987.238	988.837	989.636
8.0	985.639	987.238	986.439	988.037	988.837
8.5	984.040	985.639	985.639	987.238	988.037
9.0	982.442	984.040	984.040	986.439	988.037
9.5	980.843	982.442	983.241	985.639	987.238
10.0	980.044	981.642	982.442	984.840	986.439
10.5	978.445	980.044	980.843	984.040	986.439
11.0	976.846	978.445	980.044	983.241	985.639
11.5	975.247	976.846	978.445	982.442	984.840
12.0	973.648	975.247	977.645	981.642	984.040
12.5	972.050	973.648	976.047	980.843	984.040
13.0	969.652	972.050	975.247	980.044	983.241
13.5	968.053	970.451	973.648	979.244	982.442
14.0	965.655	968.053	972.050	978.445	981.642
14.5	964.056	966.454	970.451	976.846	980.843
15.0	961.658	964.056	968.852	976.047	980.044
15.5	959.260	961.658	967.253	974.448	978.445
16.0	956.861	959.260	965.655	972.849	977.645
16.5	954.463	956.861	963.256	972.050	976.047
17.0	951.266	954.463	961.658	969.652	975.247
17.5	948.868	952.065	959.260	968.053	972.849
18.0	945.670	948.868	956.861	966.454	971.250
18.5	942.473	945.670	954.463	964.056	969.652
19.0	939.275	943.272	952.065	962.457	968.053
19.5	936.877	940.074	949.667	960.059	965.655
20.0	932.880	936.877	947.269	958.460	964.056
20.5	929.682	933.679	944.071	956.062	962.457
21.0	926.485	930.482	941.673	953.664	960.059
21.5	923.287	927.284	938.476	951.266	957.661
22.0	919.290	924.087	935.278	948.868	955.263
22.5	915.294	920.090	932.880	946.469	952.865
23.0	912.096	916.892	929.682	944.071	951.266
23.5	908.099	913.695	927.284	941.673	948.868
24.0	904.902	910.497	924.087	939.275	946.469
24.5	900.105	906.500	921.689	936.877	944.871
25.0	896.908	902.503	918.491	934.479	942.473
25.5	892.911	899.306	916.093	932.081	940.874
26.0	888.914	895.309	912.895	929.682	938.476
26.5	884.917	892.111	909.698	927.284	936.877

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CANDELA TABULATION - (Cont.)

27.0	880.121	888.114	906.500	924.886	934.479
27.5	876.124	884.118	904.102	922.488	932.081
28.0	872.127	880.121	900.905	919.290	928.883
28.5	867.331	876.124	896.908	916.093	926.485
29.0	862.534	871.327	893.710	912.895	923.287
29.5	858.537	867.331	889.713	909.698	920.090
30.0	853.741	863.334	885.716	906.500	916.892
30.5	848.945	858.537	881.719	902.503	913.695
31.0	844.148	854.540	877.723	899.306	909.698
31.5	838.553	849.744	873.726	895.309	906.500
32.0	833.756	844.948	868.929	891.312	902.503
32.5	828.960	840.152	864.932	887.315	898.506
33.0	823.364	834.556	860.136	883.318	894.510
33.5	817.769	829.760	856.139	879.321	890.513
34.0	812.173	824.164	851.343	874.525	886.516
34.5	806.577	819.368	846.547	870.528	882.519
35.0	800.982	813.772	841.750	866.531	878.522
35.5	795.466	808.976	836.954	862.534	874.525
36.0	789.870	803.380	832.158	857.738	870.528
36.5	783.955	798.024	828.161	853.741	866.531
37.0	778.199	792.588	822.565	848.945	862.534
37.5	772.124	787.072	817.769	844.948	857.738
38.0	765.889	781.557	812.972	840.152	852.942
38.5	759.734	775.721	807.377	835.355	848.945
39.0	753.498	770.046	802.581	830.559	844.148
39.5	747.263	764.290	797.225	825.763	838.553
40.0	741.028	758.215	791.709	820.167	833.756
40.5	734.633	752.299	786.113	814.571	828.960
41.0	727.838	746.224	780.837	809.775	823.364
41.5	721.523	740.069	775.162	804.179	818.568
42.0	714.888	733.834	769.406	798.504	812.972
42.5	708.413	727.598	763.491	792.988	807.377
43.0	701.698	721.443	757.735	787.472	801.781
43.5	694.984	714.888	751.980	781.876	796.585
44.0	688.429	708.333	745.984	776.121	790.830
44.5	681.714	701.938	739.989	770.445	785.074
45.0	674.679	695.463	733.914	764.610	779.159
45.5	667.964	688.828	727.838	758.694	773.163
46.0	661.010	682.353	721.603	752.779	767.168
46.5	654.135	675.638	715.368	746.704	761.412
47.0	646.941	668.924	709.053	740.548	755.417
47.5	639.506	662.209	702.818	734.153	749.022
48.0	632.312	655.494	696.343	727.758	742.867
48.5	627.356	648.619	689.868	721.443	736.152
49.0	624.798	642.064	683.153	714.968	729.997
49.5	617.443	636.549	676.598	708.653	723.362
50.0	609.929	630.713	669.883	701.938	716.647
50.5	602.495	625.517	663.168	695.064	710.012
51.0	594.741	618.882	656.453	688.189	703.217
51.5	587.147	611.848	649.659	681.234	695.943
52.0	579.393	606.172	643.583	674.280	688.828
52.5	571.719	599.138	637.988	667.245	681.554
53.0	563.805	591.863	631.273	659.731	674.280
53.5	555.731	584.429	625.837	652.376	666.446
54.0	547.657	576.995	619.842	644.782	658.532
54.5	539.584	569.560	612.487	638.867	650.778

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CANDELA TABULATION - (Cont.)

55.0	531.750	562.046	606.412	632.632	645.182
55.5	523.756	554.612	599.297	624.798	638.227
56.0	515.762	546.938	591.703	617.124	629.594
56.5	507.688	539.264	583.869	611.528	620.801
57.0	499.534	531.350	575.955	603.374	611.848
57.5	491.381	523.596	568.042	594.821	606.172
58.0	483.387	515.922	560.208	586.267	596.819
58.5	475.473	508.328	552.294	577.634	587.467
59.0	467.319	500.734	544.300	568.601	577.794
59.5	459.246	492.820	536.146	559.488	568.042
60.0	451.012	485.146	528.072	550.135	557.809
60.5	442.938	477.392	519.999	541.022	547.338
61.0	435.104	469.797	511.925	531.590	536.786
61.5	427.110	462.443	504.091	522.157	526.074
62.0	419.356	455.169	496.017	512.564	515.202
62.5	411.442	447.654	487.863	502.412	503.611
63.0	403.688	440.140	479.710	492.100	491.461
63.5	395.854	432.786	471.316	481.308	478.351
64.0	387.941	425.352	462.843	469.957	464.681
64.5	380.187	417.678	454.050	458.046	450.452
65.0	372.033	410.004	445.017	445.416	435.344
65.5	363.639	402.010	435.744	432.146	419.356
66.0	355.166	393.696	425.751	417.997	402.329
66.5	346.612	385.223	415.279	403.049	384.104
67.0	337.499	376.429	404.648	387.541	366.117
67.5	328.466	367.476	393.696	371.793	347.252
68.0	319.274	358.363	382.505	355.166	328.307
68.5	310.161	349.091	370.834	338.299	308.882
69.0	300.328	339.658	358.763	320.952	289.776
69.5	290.656	330.225	346.612	303.366	270.431
70.0	281.223	320.712	334.462	285.779	252.045
70.5	271.710	311.120	321.672	268.992	233.979
71.0	262.517	301.687	308.802	251.886	216.553
71.5	253.404	292.254	295.532	235.418	199.846
72.0	244.291	282.822	282.342	219.591	184.178
72.5	235.099	273.229	268.673	204.402	169.229
73.0	226.145	263.716	254.444	189.774	155.720
73.5	217.272	254.204	240.374	176.104	142.850
74.0	208.559	244.771	226.625	162.994	131.019
74.5	199.686	234.939	212.956	150.924	120.147
75.0	190.973	225.266	199.446	139.892	110.155
75.5	182.579	215.354	186.336	129.500	101.202
76.0	174.186	205.601	173.866	119.588	92.569
76.5	165.872	195.849	162.035	110.715	85.134
77.0	157.798	186.176	150.844	102.641	78.419
77.5	149.724	176.664	140.292	95.286	72.264
78.0	141.731	167.071	130.619	88.492	66.748
78.5	134.216	157.958	121.586	82.177	61.632
79.0	127.022	149.085	113.113	76.261	56.996
79.5	120.067	140.532	105.279	70.985	52.839
80.0	113.353	132.538	97.924	66.029	49.082
80.5	106.398	124.944	91.050	61.313	45.725
81.0	99.443	117.429	84.575	56.996	42.527
81.5	92.808	109.915	78.340	52.839	39.729
82.0	86.014	102.641	72.344	49.002	36.772
82.5	79.219	95.207	66.589	45.085	33.814

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CANDELA TABULATION - (Cont.)

83.0	72.264	87.612	60.993	41.088	31.096
83.5	65.629	80.178	55.477	37.331	28.618
84.0	58.915	72.744	50.121	33.734	26.220
84.5	52.280	64.990	44.686	30.137	23.981
85.0	45.645	57.236	39.170	26.779	21.903
85.5	39.410	49.402	33.814	23.662	20.304
86.0	33.254	41.648	28.618	20.944	18.945
86.5	27.339	33.974	23.502	18.386	17.347
87.0	21.983	26.699	18.706	15.668	15.188
87.5	17.107	19.985	14.549	12.550	12.071
88.0	12.870	14.149	10.632	10.072	10.472
88.5	8.953	9.513	7.754	8.074	8.633
89.0	5.516	6.155	5.436	5.356	5.516
89.5	4.556	4.716	4.636	5.356	5.276
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

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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-22-L30-840-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-22-L30-840-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	368.37	N.A.	12.00
0-30	792.50	N.A.	25.80
0-40	1318.72	N.A.	42.90
0-60	2414.85	N.A.	78.60
0-80	3025.4	N.A.	98.50
0-90	3070.82	N.A.	100.00
10-90	2976.38	N.A.	96.90
20-40	950.35	N.A.	30.90
20-50	1513.82	N.A.	49.30
40-70	1511.33	N.A.	49.20
60-80	610.55	N.A.	19.90
70-80	195.35	N.A.	6.40
80-90	45.42	N.A.	1.50
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	3070.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	94.44
10-20	273.93
20-30	424.13
30-40	526.22
40-50	563.47
50-60	532.66
60-70	415.20
70-80	195.35
80-90	45.42
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-22-L30-840-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	97	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	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	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	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L30-840-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

X=2H	Y=2H	15.8	17.5	16.2	17.8	18.1	16.8	18.5	17.2	18.8	19.1
	3H	17.7	19.2	18.1	19.5	19.9	18.2	19.8	18.6	20.1	20.4
	4H	18.4	19.8	18.8	20.1	20.5	18.5	19.9	18.9	20.2	20.6
	6H	18.8	20.1	19.2	20.5	20.9	18.5	19.8	18.9	20.2	20.6
	8H	19.0	20.2	19.4	20.6	21.0	18.5	19.8	19.0	20.2	20.6
	12H	19.0	20.2	19.4	20.6	21.0	18.5	19.7	18.9	20.1	20.5

UGR Viewed Endwise

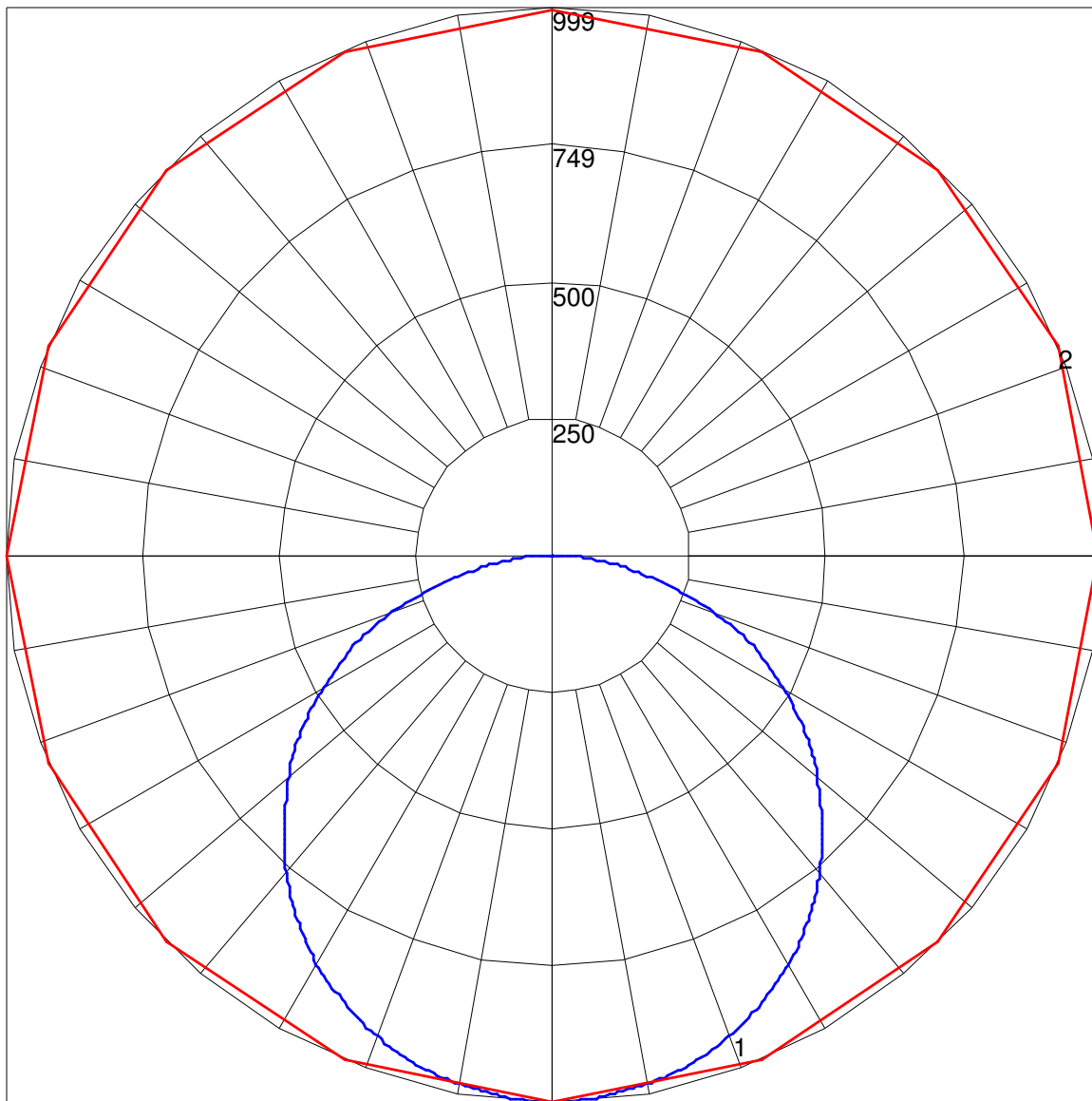
4H	2H	16.7	18.1	17.1	18.5	18.8	17.5	18.9	17.9	19.2	19.6
	3H	18.8	20.0	19.2	20.4	20.8	19.1	20.3	19.5	20.7	21.1
	4H	19.6	20.6	20.0	21.0	21.5	19.3	20.4	19.8	20.8	21.3
	6H	20.1	21.1	20.6	21.5	22.0	19.5	20.4	19.9	20.8	21.3
	8H	20.3	21.2	20.8	21.6	22.1	19.5	20.4	19.9	20.8	21.3
	12H	20.4	21.2	20.9	21.7	22.2	19.5	20.3	20.0	20.8	21.2

8H	4H	19.8	20.7	20.3	21.1	21.6	19.6	20.5	20.1	20.9	21.4
	6H	20.5	21.2	21.0	21.7	22.2	19.8	20.5	20.3	21.0	21.5
	8H	20.8	21.4	21.3	21.9	22.4	19.8	20.5	20.4	21.0	21.5
	12H	21.0	21.6	21.5	22.0	22.6	19.9	20.5	20.4	20.9	21.5

12H	4H	19.8	20.6	20.3	21.1	21.5	19.6	20.4	20.1	20.9	21.4
	6H	20.5	21.2	21.1	21.6	22.2	19.9	20.5	20.4	21.0	21.5
	8H	20.8	21.4	21.3	21.9	22.5	19.9	20.5	20.4	21.0	21.5

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 999.229 Located At Horizontal Angle = 22.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)