



IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L30-850-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-L30-850-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	3160
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
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	2873	3126	3318
55	2792	3184	3387
65	2651	3171	3102
75	2222	2321	1282
85	1577	1353	757

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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	1026.687	1026.687	1026.687	1026.687	1026.687
0.5	1025.864	1028.332	1026.687	1025.864	1025.864
1.0	1025.042	1028.332	1026.687	1025.864	1025.864
1.5	1025.042	1027.510	1026.687	1025.042	1025.864
2.0	1025.042	1027.510	1025.864	1025.042	1025.042
2.5	1025.042	1027.510	1025.042	1024.219	1024.219
3.0	1024.219	1026.687	1024.219	1023.396	1024.219
3.5	1023.396	1025.864	1023.396	1023.396	1023.396
4.0	1022.574	1025.042	1023.396	1022.574	1022.574
4.5	1021.751	1024.219	1021.751	1021.751	1021.751
5.0	1020.928	1022.574	1020.928	1020.928	1021.751
5.5	1020.106	1021.751	1020.106	1020.106	1020.928
6.0	1018.460	1020.928	1019.283	1019.283	1020.106
6.5	1017.638	1019.283	1018.460	1019.283	1019.283
7.0	1016.815	1018.460	1017.638	1018.460	1019.283
7.5	1015.170	1016.815	1015.992	1017.638	1018.460
8.0	1014.347	1015.992	1015.170	1016.815	1017.638
8.5	1012.702	1014.347	1014.347	1015.992	1016.815
9.0	1011.057	1012.702	1012.702	1015.170	1016.815
9.5	1009.411	1011.057	1011.879	1014.347	1015.992
10.0	1008.589	1010.234	1011.057	1013.524	1015.170
10.5	1006.943	1008.589	1009.411	1012.702	1015.170
11.0	1005.298	1006.943	1008.589	1011.879	1014.347
11.5	1003.653	1005.298	1006.943	1011.057	1013.524
12.0	1002.007	1003.653	1006.121	1010.234	1012.702
12.5	1000.362	1002.007	1004.475	1009.411	1012.702
13.0	997.894	1000.362	1003.653	1008.589	1011.879
13.5	996.249	998.717	1002.007	1007.766	1011.057
14.0	993.781	996.249	1000.362	1006.943	1010.234
14.5	992.135	994.603	998.717	1005.298	1009.411
15.0	989.667	992.135	997.071	1004.475	1008.589
15.5	987.199	989.667	995.426	1002.830	1006.943
16.0	984.731	987.199	993.781	1001.185	1006.121
16.5	982.263	984.731	991.313	1000.362	1004.475
17.0	978.973	982.263	989.667	997.894	1003.653
17.5	976.505	979.795	987.199	996.249	1001.185
18.0	973.214	976.505	984.731	994.603	999.539
18.5	969.923	973.214	982.263	992.135	997.894
19.0	966.633	970.746	979.795	990.490	996.249
19.5	964.165	967.455	977.327	988.022	993.781
20.0	960.051	964.165	974.859	986.377	992.135
20.5	956.761	960.874	971.569	983.909	990.490
21.0	953.470	957.583	969.101	981.441	988.022
21.5	950.179	954.293	965.810	978.973	985.554
22.0	946.066	951.002	962.519	976.505	983.086
22.5	941.953	946.889	960.051	974.037	980.618
23.0	938.662	943.598	956.761	971.569	978.973
23.5	934.549	940.307	954.293	969.101	976.505
24.0	931.258	937.017	951.002	966.633	974.037
24.5	926.322	932.903	948.534	964.165	972.391
25.0	923.031	928.790	945.243	961.697	969.923
25.5	918.918	925.499	942.775	959.229	968.278
26.0	914.805	921.386	939.485	956.761	965.810
26.5	910.691	918.095	936.194	954.293	964.165

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CANDELA TABULATION - (Cont.)

27.0	905.755	913.982	932.903	951.825	961.697
27.5	901.642	909.869	930.435	949.357	959.229
28.0	897.529	905.755	927.145	946.066	955.938
28.5	892.593	901.642	923.031	942.775	953.470
29.0	887.657	896.706	919.741	939.485	950.179
29.5	883.543	892.593	915.627	936.194	946.889
30.0	878.607	888.479	911.514	932.903	943.598
30.5	873.671	883.543	907.401	928.790	940.307
31.0	868.735	879.430	903.287	925.499	936.194
31.5	862.977	874.494	899.174	921.386	932.903
32.0	858.041	869.558	894.238	917.273	928.790
32.5	853.105	864.622	890.125	913.159	924.677
33.0	847.346	858.863	885.189	909.046	920.563
33.5	841.587	853.927	881.075	904.933	916.450
34.0	835.829	848.169	876.139	899.997	912.337
34.5	830.070	843.233	871.203	895.883	908.223
35.0	824.311	837.474	866.267	891.770	904.110
35.5	818.635	832.538	861.331	887.657	899.997
36.0	812.876	826.779	856.395	882.721	895.883
36.5	806.789	821.267	852.282	878.607	891.770
37.0	800.865	815.673	846.523	873.671	887.657
37.5	794.613	809.997	841.587	869.558	882.721
38.0	788.196	804.321	836.651	864.622	877.785
38.5	781.862	798.315	830.893	859.686	873.671
39.0	775.445	792.474	825.957	854.750	868.735
39.5	769.028	786.551	820.445	849.814	862.977
40.0	762.611	780.299	814.768	844.055	858.041
40.5	756.030	774.211	809.010	838.297	853.105
41.0	749.037	767.959	803.580	833.361	847.346
41.5	742.538	761.624	797.739	827.602	842.410
42.0	735.710	755.207	791.816	821.761	836.651
42.5	729.047	748.791	785.728	816.085	830.893
43.0	722.136	742.456	779.805	810.408	825.134
43.5	715.226	735.710	773.882	804.650	819.787
44.0	708.480	728.964	767.712	798.726	813.863
44.5	701.570	722.383	761.542	792.885	807.940
45.0	694.330	715.719	755.290	786.880	801.853
45.5	687.420	708.891	749.037	780.792	795.683
46.0	680.263	702.228	742.621	774.705	789.513
46.5	673.188	695.317	736.204	768.452	783.589
47.0	665.784	688.407	729.705	762.118	777.419
47.5	658.133	681.497	723.288	755.536	770.838
48.0	650.729	674.586	716.624	748.955	764.504
48.5	645.628	667.511	709.961	742.456	757.593
49.0	642.996	660.765	703.050	735.792	751.259
49.5	635.427	655.089	696.304	729.293	744.430
50.0	627.694	649.083	689.394	722.383	737.520
50.5	620.043	643.736	682.484	715.308	730.692
51.0	612.063	636.908	675.573	708.233	723.699
51.5	604.248	629.669	668.581	701.076	716.213
52.0	596.268	623.828	662.328	693.919	708.891
52.5	588.371	616.588	656.570	686.679	701.405
53.0	580.226	609.102	649.659	678.946	693.919
53.5	571.917	601.451	644.065	671.378	685.857
54.0	563.608	593.800	637.895	663.562	677.712
54.5	555.300	586.150	630.327	657.475	669.732

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PHOTOMETRIC FILENAME : BAR-22-L30-850-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	547.237	578.416	624.074	651.058	663.974
55.5	539.011	570.766	616.753	642.996	656.817
56.0	530.784	562.868	608.937	635.098	647.932
56.5	522.475	554.970	600.875	629.339	638.882
57.0	514.084	546.826	592.731	620.948	629.669
57.5	505.693	538.846	584.586	612.146	623.828
58.0	497.466	530.949	576.524	603.343	614.202
58.5	489.322	523.133	568.380	594.458	604.577
59.0	480.931	515.318	560.153	585.162	594.623
59.5	472.622	507.174	551.762	575.784	584.586
60.0	464.148	499.276	543.453	566.159	574.056
60.5	455.839	491.296	535.144	556.780	563.279
61.0	447.777	483.481	526.835	547.073	552.420
61.5	439.550	475.912	518.773	537.365	541.396
62.0	431.571	468.426	510.464	527.493	530.208
62.5	423.426	460.693	502.073	517.046	518.280
63.0	415.446	452.960	493.682	506.433	505.775
63.5	407.384	445.391	485.044	495.327	492.283
64.0	399.240	437.741	476.324	483.645	478.216
64.5	391.260	429.843	467.274	471.388	463.572
65.0	382.869	421.945	457.978	458.389	448.024
65.5	374.231	413.719	448.435	444.733	431.571
66.0	365.510	405.163	438.152	430.172	414.048
66.5	356.708	396.443	427.375	414.788	395.291
67.0	347.330	387.393	416.434	398.828	376.781
67.5	338.033	378.180	405.163	382.622	357.366
68.0	328.573	368.801	393.646	365.510	337.869
68.5	319.194	359.258	381.635	348.152	317.878
69.0	309.076	349.551	369.212	330.300	298.216
69.5	299.121	339.843	356.708	312.202	278.308
70.0	289.414	330.054	344.203	294.103	259.387
70.5	279.624	320.182	331.041	276.827	240.794
71.0	270.164	310.474	317.796	259.222	222.860
71.5	260.785	300.767	304.140	242.275	205.666
72.0	251.407	291.059	290.566	225.986	189.542
72.5	241.946	281.187	276.498	210.356	174.158
73.0	232.732	271.398	261.855	195.301	160.255
73.5	223.601	261.608	247.376	181.233	147.010
74.0	214.634	251.900	233.226	167.742	134.835
74.5	205.502	241.782	219.158	155.319	123.647
75.0	196.535	231.827	205.255	143.967	113.363
75.5	187.897	221.626	191.763	133.272	104.150
76.0	179.259	211.590	178.930	123.071	95.265
76.5	170.703	201.553	166.754	113.939	87.614
77.0	162.394	191.599	155.237	105.630	80.704
77.5	154.085	181.809	144.378	98.062	74.369
78.0	145.859	171.937	134.424	91.069	68.693
78.5	138.126	162.559	125.127	84.570	63.428
79.0	130.722	153.427	116.407	78.482	58.656
79.5	123.564	144.625	108.345	73.053	54.378
80.0	116.654	136.398	100.777	67.952	50.512
80.5	109.497	128.583	93.702	63.098	47.056
81.0	102.340	120.850	87.038	58.656	43.766
81.5	95.512	113.117	80.621	54.378	40.886
82.0	88.519	105.630	74.451	50.429	37.843
82.5	81.526	97.980	68.528	46.398	34.799

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

83.0	74.369	90.164	62.769	42.285	32.002
83.5	67.541	82.513	57.093	38.419	29.451
84.0	60.630	74.863	51.581	34.717	26.983
84.5	53.802	66.883	45.987	31.015	24.680
85.0	46.974	58.903	40.311	27.559	22.541
85.5	40.557	50.841	34.799	24.351	20.896
86.0	34.223	42.861	29.451	21.554	19.497
86.5	28.135	34.963	24.186	18.921	17.852
87.0	22.623	27.477	19.250	16.124	15.631
87.5	17.605	20.567	14.973	12.916	12.422
88.0	13.245	14.561	10.941	10.366	10.777
88.5	9.214	9.790	7.980	8.309	8.885
89.0	5.676	6.335	5.594	5.512	5.676
89.5	4.689	4.854	4.771	5.512	5.430
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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PHOTOMETRIC FILENAME : BAR-22-L30-850-DIM-UNV_.IES

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-22-L30-850-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-22-L30-850-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-22-L30-850-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	379.10	N.A.	12.00
0-30	815.59	N.A.	25.80
0-40	1357.13	N.A.	42.90
0-60	2485.18	N.A.	78.60
0-80	3113.52	N.A.	98.50
0-90	3160.26	N.A.	100.00
10-90	3063.07	N.A.	96.90
20-40	978.03	N.A.	30.90
20-50	1557.91	N.A.	49.30
40-70	1555.35	N.A.	49.20
60-80	628.34	N.A.	19.90
70-80	201.04	N.A.	6.40
80-90	46.74	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	3160.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	97.19
10-20	281.91
20-30	436.49
30-40	541.54
40-50	579.88
50-60	548.17
60-70	427.29
70-80	201.04
80-90	46.74
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-L30-850-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	97	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	78	70	64	75	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-L30-850-DIM-UNV_.IES

UGR TABLE - CORRECTED

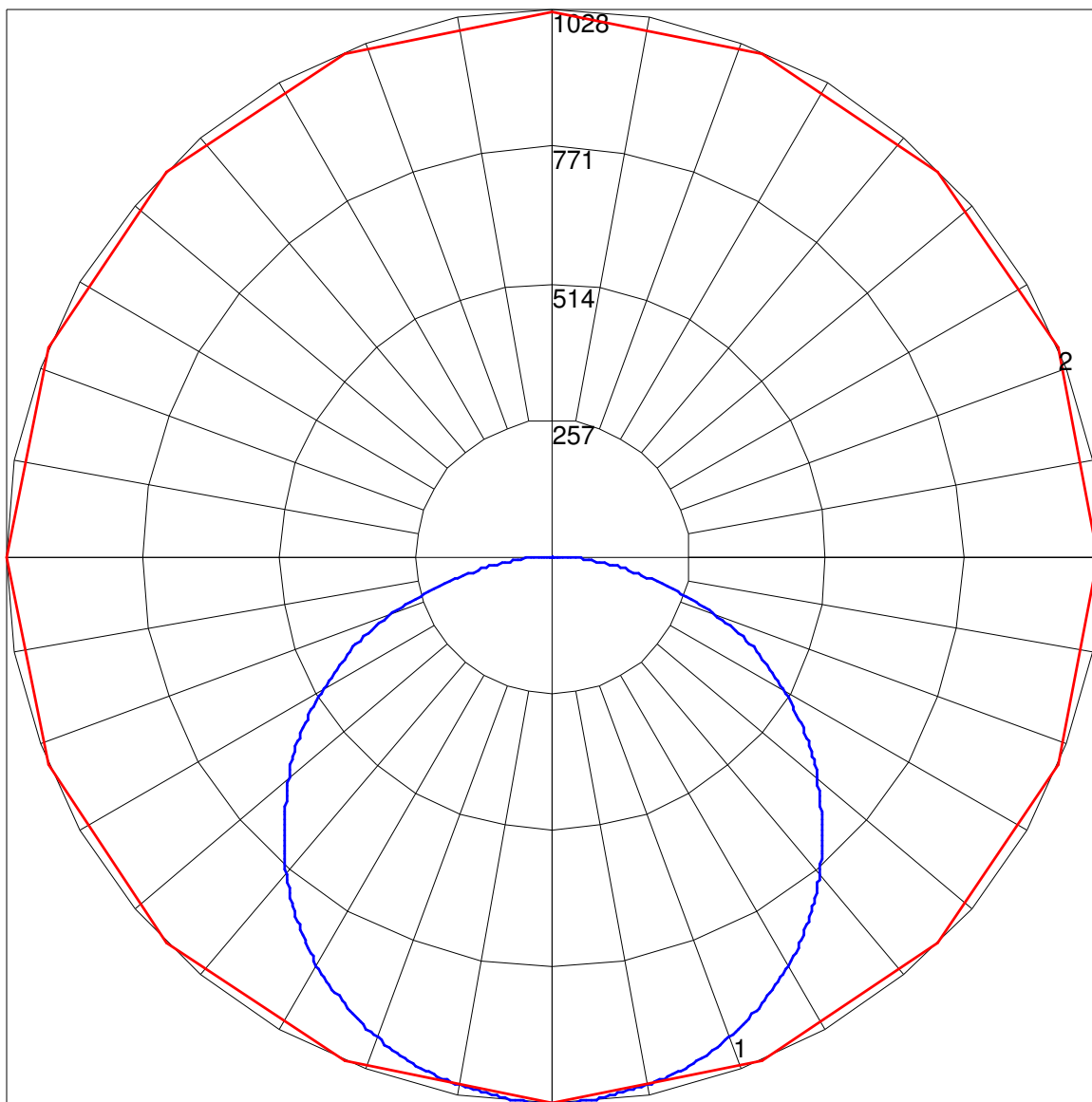
Reflectances

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	15.9	17.6	16.3	17.9	18.2	16.9	18.6	17.3	18.9	19.2
	3H	17.8	19.3	18.2	19.6	20.0	18.3	19.9	18.7	20.2	20.5
	4H	18.5	19.9	18.9	20.2	20.6	18.6	20.0	19.0	20.3	20.7
	6H	18.9	20.2	19.3	20.6	21.0	18.6	19.9	19.0	20.3	20.7
	8H	19.1	20.3	19.5	20.7	21.1	18.6	19.9	19.1	20.3	20.7
	12H	19.1	20.3	19.6	20.7	21.1	18.6	19.8	19.0	20.2	20.6
4H	2H	16.8	18.2	17.2	18.6	18.9	17.6	19.0	18.0	19.3	19.7
	3H	18.9	20.1	19.3	20.5	20.9	19.2	20.4	19.6	20.8	21.2
	4H	19.7	20.7	20.1	21.1	21.6	19.4	20.5	19.9	20.9	21.4
	6H	20.2	21.2	20.7	21.6	22.1	19.6	20.5	20.0	20.9	21.4
	8H	20.4	21.3	20.9	21.7	22.2	19.6	20.5	20.0	20.9	21.4
	12H	20.5	21.3	21.0	21.8	22.3	19.6	20.4	20.1	20.9	21.3
8H	4H	19.9	20.8	20.4	21.2	21.7	19.7	20.6	20.2	21.0	21.5
	6H	20.6	21.3	21.1	21.8	22.3	19.9	20.6	20.4	21.1	21.6
	8H	20.9	21.5	21.4	22.0	22.5	19.9	20.6	20.5	21.1	21.6
	12H	21.1	21.7	21.6	22.1	22.7	20.0	20.6	20.5	21.0	21.6
12H	4H	19.9	20.7	20.4	21.2	21.6	19.7	20.5	20.2	21.0	21.5
	6H	20.6	21.3	21.2	21.7	22.3	20.0	20.6	20.5	21.1	21.6
	8H	20.9	21.5	21.4	22.0	22.6	20.0	20.6	20.5	21.1	21.6

Maximum UGR = 22.7

POLAR GRAPH



Maximum Candela = 1028.332 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.)