



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-22-L20-935-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GENERATED FROM 15729805.02
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 2025-05-02
 [TESTDATE] 3/21/2025
 [MANUFAC] WILLIAMS INDOOR
 [MORE] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] BAR-22-L20-935-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	1703
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	15.5
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	1548	1684	1788
55	1504	1716	1825
65	1429	1709	1672
75	1197	1250	691
85	850	729	408

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L20-935-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	553.227	553.227	553.227	553.227	553.227
0.5	552.784	554.113	553.227	552.784	552.784
1.0	552.340	554.113	553.227	552.784	552.784
1.5	552.340	553.670	553.227	552.340	552.784
2.0	552.340	553.670	552.784	552.340	552.340
2.5	552.340	553.670	552.340	551.897	551.897
3.0	551.897	553.227	551.897	551.454	551.897
3.5	551.454	552.784	551.454	551.454	551.454
4.0	551.010	552.340	551.454	551.010	551.010
4.5	550.567	551.897	550.567	550.567	550.567
5.0	550.124	551.010	550.124	550.124	550.567
5.5	549.681	550.567	549.681	549.681	550.124
6.0	548.794	550.124	549.237	549.237	549.681
6.5	548.351	549.237	548.794	549.237	549.237
7.0	547.907	548.794	548.351	548.794	549.237
7.5	547.021	547.907	547.464	548.351	548.794
8.0	546.578	547.464	547.021	547.907	548.351
8.5	545.691	546.578	546.578	547.464	547.907
9.0	544.804	545.691	545.691	547.021	547.907
9.5	543.918	544.804	545.248	546.578	547.464
10.0	543.475	544.361	544.804	546.134	547.021
10.5	542.588	543.475	543.918	545.691	547.021
11.0	541.701	542.588	543.475	545.248	546.578
11.5	540.815	541.701	542.588	544.804	546.134
12.0	539.928	540.815	542.145	544.361	545.691
12.5	539.042	539.928	541.258	543.918	545.691
13.0	537.712	539.042	540.815	543.475	545.248
13.5	536.825	538.155	539.928	543.031	544.804
14.0	535.495	536.825	539.042	542.588	544.361
14.5	534.609	535.939	538.155	541.701	543.918
15.0	533.279	534.609	537.268	541.258	543.475
15.5	531.949	533.279	536.382	540.371	542.588
16.0	530.619	531.949	535.495	539.485	542.145
16.5	529.289	530.619	534.165	539.042	541.258
17.0	527.516	529.289	533.279	537.712	540.815
17.5	526.186	527.959	531.949	536.825	539.485
18.0	524.413	526.186	530.619	535.939	538.598
18.5	522.640	524.413	529.289	534.609	537.712
19.0	520.867	523.083	527.959	533.722	536.825
19.5	519.537	521.310	526.629	532.392	535.495
20.0	517.320	519.537	525.300	531.506	534.609
20.5	515.547	517.764	523.526	530.176	533.722
21.0	513.774	515.990	522.197	528.846	532.392
21.5	512.001	514.217	520.423	527.516	531.062
22.0	509.784	512.444	518.650	526.186	529.733
22.5	507.568	510.228	517.320	524.856	528.403
23.0	505.795	508.455	515.547	523.526	527.516
23.5	503.578	506.681	514.217	522.197	526.186
24.0	501.805	504.908	512.444	520.867	524.856
24.5	499.145	502.692	511.114	519.537	523.970
25.0	497.372	500.475	509.341	518.207	522.640
25.5	495.156	498.702	508.011	516.877	521.753
26.0	492.939	496.486	506.238	515.547	520.423
26.5	490.723	494.713	504.465	514.217	519.537

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L20-935-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	488.063	492.496	502.692	512.887	518.207
27.5	485.847	490.280	501.362	511.558	516.877
28.0	483.630	488.063	499.589	509.784	515.104
28.5	480.971	485.847	497.372	508.011	513.774
29.0	478.311	483.187	495.599	506.238	512.001
29.5	476.094	480.971	493.383	504.465	510.228
30.0	473.435	478.754	491.166	502.692	508.455
30.5	470.775	476.094	488.950	500.475	506.681
31.0	468.115	473.878	486.733	498.702	504.465
31.5	465.012	471.218	484.517	496.486	502.692
32.0	462.352	468.558	481.857	494.269	500.475
32.5	459.693	465.899	479.641	492.053	498.259
33.0	456.590	462.796	476.981	489.836	496.042
33.5	453.486	460.136	474.764	487.620	493.826
34.0	450.383	457.033	472.105	484.960	491.609
34.5	447.280	454.373	469.445	482.744	489.393
35.0	444.177	451.270	466.785	480.527	487.177
35.5	441.119	448.610	464.125	478.311	484.960
36.0	438.016	445.507	461.466	475.651	482.744
36.5	434.735	442.537	459.249	473.435	480.527
37.0	431.544	439.523	456.146	470.775	478.311
37.5	428.175	436.464	453.486	468.558	475.651
38.0	424.717	433.405	450.827	465.899	472.991
38.5	421.304	430.169	447.724	463.239	470.775
39.0	417.846	427.022	445.064	460.579	468.115
39.5	414.388	423.830	442.094	457.919	465.012
40.0	410.931	420.461	439.035	454.816	462.352
40.5	407.384	417.181	435.932	451.713	459.693
41.0	403.616	413.812	433.006	449.054	456.590
41.5	400.114	410.399	429.859	445.951	453.930
42.0	396.435	406.941	426.667	442.803	450.827
42.5	392.844	403.483	423.387	439.744	447.724
43.0	389.121	400.070	420.195	436.686	444.621
43.5	385.397	396.435	417.004	433.583	441.739
44.0	381.762	392.800	413.679	430.391	438.548
44.5	378.038	389.254	410.354	427.244	435.356
45.0	374.137	385.663	406.985	424.008	432.076
45.5	370.414	381.984	403.616	420.727	428.751
46.0	366.557	378.393	400.159	417.447	425.426
46.5	362.745	374.669	396.701	414.078	422.234
47.0	358.755	370.946	393.199	410.665	418.910
47.5	354.633	367.222	389.741	407.118	415.363
48.0	350.643	363.498	386.151	403.572	411.950
48.5	347.895	359.686	382.560	400.070	408.226
49.0	346.476	356.051	378.836	396.479	404.813
49.5	342.398	352.992	375.201	392.977	401.134
50.0	338.231	349.756	371.478	389.254	397.410
50.5	334.108	346.875	367.754	385.441	393.731
51.0	329.808	343.196	364.030	381.629	389.963
51.5	325.597	339.295	360.262	377.772	385.929
52.0	321.297	336.147	356.893	373.916	381.984
52.5	317.042	332.246	353.790	370.015	377.950
53.0	312.653	328.213	350.067	365.848	373.916
53.5	308.176	324.090	347.052	361.770	369.572
54.0	303.699	319.967	343.728	357.558	365.183
54.5	299.221	315.845	339.649	354.278	360.883

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L20-935-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	294.877	311.678	336.280	350.820	357.780
55.5	290.444	307.555	332.335	346.476	353.923
56.0	286.011	303.300	328.124	342.220	349.136
56.5	281.534	299.044	323.780	339.117	344.260
57.0	277.012	294.655	319.391	334.596	339.295
57.5	272.491	290.355	315.002	329.853	336.147
58.0	268.058	286.100	310.658	325.109	330.961
58.5	263.669	281.889	306.270	320.322	325.774
59.0	259.148	277.677	301.837	315.313	320.411
59.5	254.671	273.289	297.315	310.259	315.002
60.0	250.105	269.033	292.838	305.073	309.328
60.5	245.627	264.733	288.361	300.019	303.521
61.0	241.283	260.522	283.883	294.788	297.670
61.5	236.850	256.444	279.539	289.558	291.730
62.0	232.550	252.410	275.062	284.238	285.701
62.5	228.162	248.243	270.540	278.608	279.273
63.0	223.862	244.076	266.019	272.890	272.535
63.5	219.518	239.998	261.364	266.905	265.265
64.0	215.129	235.875	256.665	260.611	257.685
64.5	210.829	231.619	251.789	254.006	249.794
65.0	206.308	227.364	246.780	247.002	241.416
65.5	201.653	222.931	241.638	239.643	232.550
66.0	196.954	218.321	236.097	231.797	223.108
66.5	192.211	213.622	230.290	223.507	213.001
67.0	187.157	208.746	224.394	214.907	203.027
67.5	182.148	203.781	218.321	206.175	192.566
68.0	177.050	198.727	212.115	196.954	182.060
68.5	171.997	193.585	205.643	187.601	171.288
69.0	166.544	188.354	198.949	177.981	160.693
69.5	161.181	183.123	192.211	168.229	149.965
70.0	155.950	177.848	185.473	158.476	139.770
70.5	150.675	172.529	178.380	149.167	129.751
71.0	145.577	167.298	171.243	139.681	120.087
71.5	140.523	162.067	163.885	130.549	110.823
72.0	135.470	156.836	156.570	121.772	102.134
72.5	130.372	151.517	148.990	113.349	93.845
73.0	125.407	146.242	141.099	105.237	86.353
73.5	120.486	140.966	133.298	97.657	79.216
74.0	115.655	135.736	125.673	90.387	72.655
74.5	110.734	130.283	118.093	83.693	66.627
75.0	105.902	124.919	110.601	77.576	61.085
75.5	101.248	119.423	103.331	71.813	56.121
76.0	96.593	114.014	96.416	66.316	51.333
76.5	91.983	108.606	89.855	61.396	47.210
77.0	87.506	103.242	83.649	56.919	43.487
77.5	83.028	97.967	77.798	52.840	40.073
78.0	78.595	92.648	72.434	49.072	37.015
78.5	74.429	87.594	67.425	45.570	34.178
79.0	70.439	82.674	62.726	42.290	31.607
79.5	66.582	77.931	58.381	39.364	29.302
80.0	62.859	73.498	54.303	36.616	27.218
80.5	59.002	69.286	50.491	34.000	25.356
81.0	55.145	65.119	46.900	31.607	23.583
81.5	51.466	60.952	43.442	29.302	22.032
82.0	47.698	56.919	40.118	27.174	20.391
82.5	43.930	52.796	36.926	25.002	18.751

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L20-935-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	40.073	48.585	33.823	22.785	17.244
83.5	36.394	44.462	30.764	20.702	15.870
84.0	32.671	40.339	27.794	18.707	14.540
84.5	28.991	36.040	24.780	16.712	13.299
85.0	25.312	31.740	21.721	14.850	12.146
85.5	21.854	27.395	18.751	13.121	11.260
86.0	18.441	23.095	15.870	11.614	10.506
86.5	15.161	18.840	13.033	10.196	9.619
87.0	12.190	14.806	10.373	8.688	8.423
87.5	9.486	11.082	8.068	6.960	6.694
88.0	7.137	7.846	5.896	5.585	5.807
88.5	4.965	5.275	4.300	4.477	4.788
89.0	3.059	3.413	3.014	2.970	3.059
89.5	2.527	2.615	2.571	2.970	2.926
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L20-935-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-L20-935-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-L20-935-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-L20-935-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	204.28	N.A.	12.00
0-30	439.48	N.A.	25.80
0-40	731.29	N.A.	42.90
0-60	1339.13	N.A.	78.60
0-80	1677.71	N.A.	98.50
0-90	1702.9	N.A.	100.00
10-90	1650.53	N.A.	96.90
20-40	527.01	N.A.	30.90
20-50	839.48	N.A.	49.30
40-70	838.09	N.A.	49.20
60-80	338.58	N.A.	19.90
70-80	108.33	N.A.	6.40
80-90	25.19	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	1702.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	52.37
10-20	151.91
20-30	235.20
30-40	291.81
40-50	312.47
50-60	295.38
60-70	230.25
70-80	108.33
80-90	25.19
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-L20-935-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-L20-935-DIM-UNV_.IES

UGR TABLE - CORRECTED

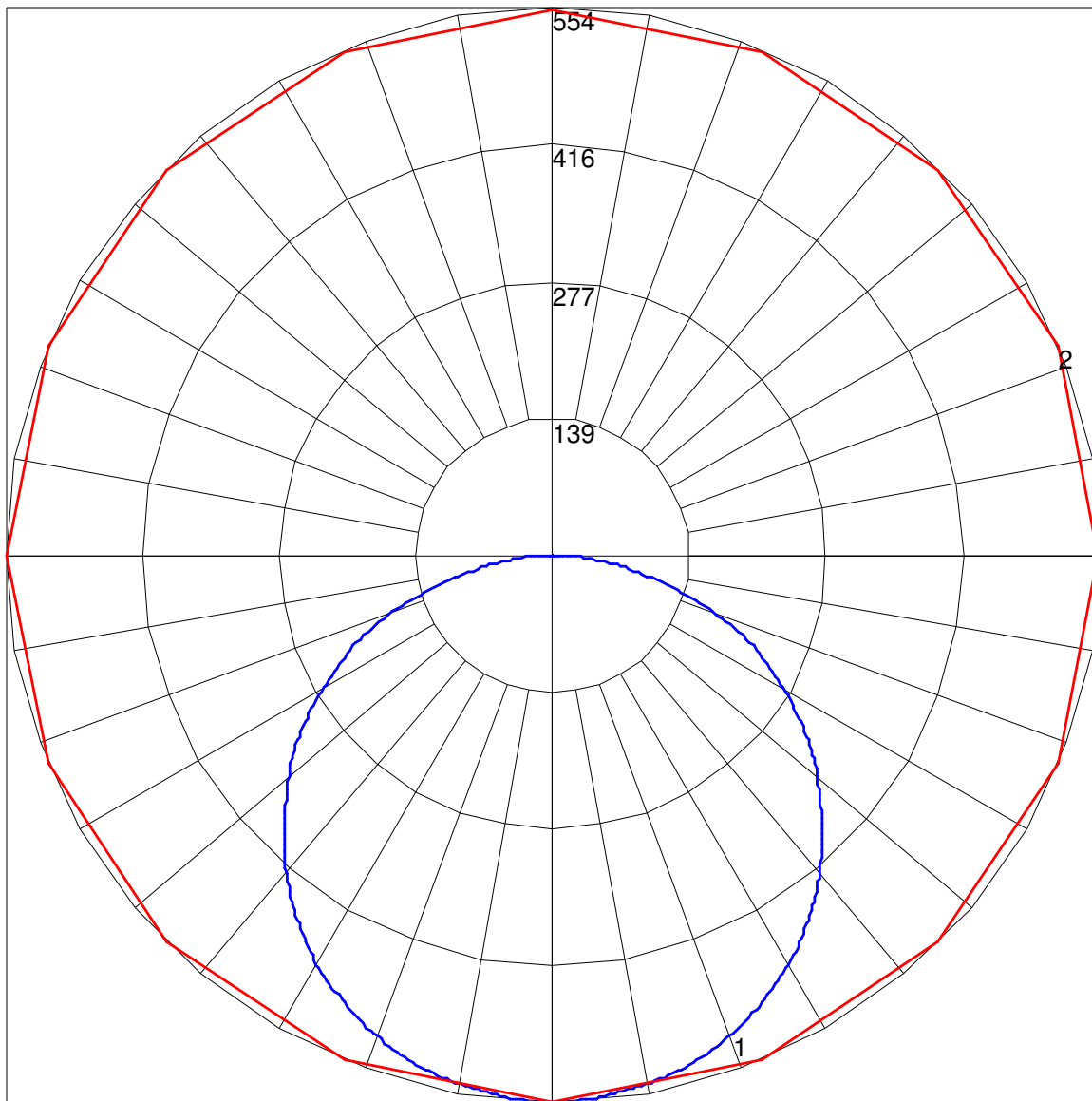
Reflectances

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	13.8	15.5	14.2	15.8	16.1	14.8	16.5	15.2	16.8	17.1
	3H	15.7	17.2	16.1	17.5	17.9	16.2	17.8	16.6	18.1	18.4
	4H	16.4	17.8	16.8	18.1	18.5	16.5	17.9	16.9	18.2	18.6
	6H	16.8	18.1	17.2	18.5	18.9	16.5	17.8	16.9	18.2	18.6
	8H	17.0	18.2	17.4	18.6	19.0	16.5	17.8	17.0	18.2	18.6
	12H	17.0	18.2	17.4	18.6	19.0	16.5	17.7	16.9	18.1	18.5
4H	2H	14.7	16.1	15.1	16.5	16.8	15.5	16.9	15.9	17.2	17.6
	3H	16.8	18.0	17.2	18.4	18.8	17.1	18.3	17.5	18.7	19.1
	4H	17.6	18.6	18.0	19.0	19.5	17.3	18.4	17.8	18.8	19.3
	6H	18.1	19.1	18.6	19.5	20.0	17.5	18.4	17.9	18.8	19.3
	8H	18.3	19.2	18.8	19.6	20.1	17.5	18.4	17.9	18.8	19.3
	12H	18.4	19.2	18.9	19.7	20.2	17.5	18.3	18.0	18.8	19.2
8H	4H	17.8	18.7	18.3	19.1	19.6	17.6	18.5	18.1	18.9	19.4
	6H	18.5	19.2	19.0	19.7	20.2	17.8	18.5	18.3	19.0	19.5
	8H	18.8	19.4	19.3	19.9	20.4	17.8	18.5	18.4	19.0	19.5
	12H	19.0	19.6	19.5	20.0	20.6	17.9	18.5	18.4	18.9	19.5
12H	4H	17.8	18.6	18.3	19.1	19.5	17.6	18.4	18.1	18.9	19.4
	6H	18.5	19.2	19.1	19.6	20.2	17.9	18.5	18.4	19.0	19.5
	8H	18.8	19.4	19.3	19.9	20.5	17.9	18.5	18.4	19.0	19.5

Maximum UGR = 20.6

POLAR GRAPH



Maximum Candela = 554.113 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.)