



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-22-L20-950-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GENERATED FROM 15729805.02
 [TESTLAB] UL Verification Services Inc.
 [ISSUE DATE] 2025-05-02
 [TEST DATE] 3/21/2025
 [MANUFAC] WILLIAMS INDOOR
 [MORE] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] BAR-22-L20-950-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	1825
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
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	1659	1805	1916
55	1612	1838	1956
65	1531	1831	1791
75	1283	1340	740
85	911	781	437

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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	592.743	592.743	592.743	592.743	592.743
0.5	592.268	593.693	592.743	592.268	592.268
1.0	591.793	593.693	592.743	592.268	592.268
1.5	591.793	593.218	592.743	591.793	592.268
2.0	591.793	593.218	592.268	591.793	591.793
2.5	591.793	593.218	591.793	591.318	591.318
3.0	591.318	592.743	591.318	590.843	591.318
3.5	590.843	592.268	590.843	590.843	590.843
4.0	590.368	591.793	590.843	590.368	590.368
4.5	589.893	591.318	589.893	589.893	589.893
5.0	589.418	590.368	589.418	589.418	589.893
5.5	588.943	589.893	588.943	588.943	589.418
6.0	587.994	589.418	588.468	588.468	588.943
6.5	587.519	588.468	587.994	588.468	588.468
7.0	587.044	587.994	587.519	587.994	588.468
7.5	586.094	587.044	586.569	587.519	587.994
8.0	585.619	586.569	586.094	587.044	587.519
8.5	584.669	585.619	585.619	586.569	587.044
9.0	583.719	584.669	584.669	586.094	587.044
9.5	582.769	583.719	584.194	585.619	586.569
10.0	582.294	583.244	583.719	585.144	586.094
10.5	581.344	582.294	582.769	584.669	586.094
11.0	580.394	581.344	582.294	584.194	585.619
11.5	579.444	580.394	581.344	583.719	585.144
12.0	578.494	579.444	580.869	583.244	584.669
12.5	577.545	578.494	579.919	582.769	584.669
13.0	576.120	577.545	579.444	582.294	584.194
13.5	575.170	576.595	578.494	581.819	583.719
14.0	573.745	575.170	577.545	581.344	583.244
14.5	572.795	574.220	576.595	580.394	582.769
15.0	571.370	572.795	575.645	579.919	582.294
15.5	569.945	571.370	574.695	578.969	581.344
16.0	568.520	569.945	573.745	578.020	580.869
16.5	567.096	568.520	572.320	577.545	579.919
17.0	565.196	567.096	571.370	576.120	579.444
17.5	563.771	565.671	569.945	575.170	578.020
18.0	561.871	563.771	568.520	574.220	577.070
18.5	559.971	561.871	567.096	572.795	576.120
19.0	558.071	560.446	565.671	571.845	575.170
19.5	556.647	558.546	564.246	570.420	573.745
20.0	554.272	556.647	562.821	569.470	572.795
20.5	552.372	554.747	560.921	568.045	571.845
21.0	550.472	552.847	559.496	566.621	570.420
21.5	548.572	550.947	557.596	565.196	568.995
22.0	546.198	549.047	555.697	563.771	567.571
22.5	543.823	546.673	554.272	562.346	566.146
23.0	541.923	544.773	552.372	560.921	565.196
23.5	539.548	542.873	550.947	559.496	563.771
24.0	537.648	540.973	549.047	558.071	562.346
24.5	534.799	538.598	547.622	556.647	561.396
25.0	532.899	536.224	545.723	555.222	559.971
25.5	530.524	534.324	544.298	553.797	559.021
26.0	528.149	531.949	542.398	552.372	557.596
26.5	525.775	530.049	540.498	550.947	556.647

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CANDELA TABULATION - (Cont.)

27.0	522.925	527.674	538.598	549.522	555.222
27.5	520.550	525.300	537.173	548.097	553.797
28.0	518.175	522.925	535.274	546.198	551.897
28.5	515.326	520.550	532.899	544.298	550.472
29.0	512.476	517.700	530.999	542.398	548.572
29.5	510.101	515.326	528.624	540.498	546.673
30.0	507.251	512.951	526.249	538.598	544.773
30.5	504.402	510.101	523.875	536.224	542.873
31.0	501.552	507.726	521.500	534.324	540.498
31.5	498.227	504.877	519.125	531.949	538.598
32.0	495.377	502.027	516.275	529.574	536.224
32.5	492.528	499.177	513.901	527.199	533.849
33.0	489.203	495.852	511.051	524.825	531.474
33.5	485.878	493.003	508.676	522.450	529.099
34.0	482.554	489.678	505.826	519.600	526.724
34.5	479.229	486.828	502.977	517.225	524.350
35.0	475.904	483.504	500.127	514.851	521.975
35.5	472.627	480.654	497.277	512.476	519.600
36.0	469.302	477.329	494.428	509.626	517.225
36.5	465.788	474.147	492.053	507.251	514.851
37.0	462.368	470.917	488.728	504.402	512.476
37.5	458.758	467.640	485.878	502.027	509.626
38.0	455.054	464.363	483.029	499.177	506.776
38.5	451.397	460.896	479.704	496.327	504.402
39.0	447.692	457.524	476.854	493.478	501.552
39.5	443.987	454.104	473.672	490.628	498.227
40.0	440.283	450.494	470.395	487.303	495.377
40.5	436.483	446.980	467.070	483.979	492.528
41.0	432.446	443.370	463.935	481.129	489.203
41.5	428.694	439.713	460.563	477.804	486.353
42.0	424.752	436.008	457.144	474.432	483.029
42.5	420.905	432.303	453.629	471.155	479.704
43.0	416.915	428.646	450.209	467.878	476.379
43.5	412.925	424.752	446.790	464.553	473.292
44.0	409.031	420.857	443.227	461.133	469.872
44.5	405.041	417.057	439.665	457.761	466.453
45.0	400.862	413.210	436.056	454.294	462.938
45.5	396.872	409.268	432.446	450.779	459.376
46.0	392.740	405.421	428.741	447.265	455.814
46.5	388.655	401.431	425.037	443.655	452.394
47.0	384.381	397.442	421.285	439.998	448.832
47.5	379.964	393.452	417.580	436.198	445.032
48.0	375.689	389.463	413.733	432.398	441.375
48.5	372.744	385.378	409.886	428.646	437.386
49.0	371.224	381.483	405.896	424.799	433.728
49.5	366.855	378.206	402.001	421.047	429.786
50.0	362.390	374.739	398.012	417.057	425.797
50.5	357.973	371.652	394.022	412.973	421.854
51.0	353.366	367.710	390.033	408.888	417.817
51.5	348.854	363.530	385.995	404.756	413.495
52.0	344.247	360.158	382.386	400.624	409.268
52.5	339.687	355.978	379.061	396.444	404.946
53.0	334.985	351.656	375.071	391.980	400.624
53.5	330.188	347.239	371.842	387.610	395.969
54.0	325.391	342.822	368.280	383.098	391.267
54.5	320.594	338.405	363.910	379.584	386.660

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CANDELA TABULATION - (Cont.)

55.0	315.940	333.940	360.300	375.879	383.336
55.5	311.190	329.523	356.073	371.224	379.204
56.0	306.441	324.964	351.561	366.665	374.074
56.5	301.644	320.404	346.907	363.340	368.850
57.0	296.799	315.702	342.205	358.496	363.530
57.5	291.954	311.095	337.503	353.414	360.158
58.0	287.205	306.536	332.848	348.332	354.601
58.5	282.503	302.024	328.146	343.202	349.044
59.0	277.658	297.511	323.396	337.835	343.297
59.5	272.861	292.809	318.552	332.421	337.503
60.0	267.969	288.250	313.755	326.864	331.423
60.5	263.172	283.643	308.958	321.449	325.201
61.0	258.518	279.131	304.161	315.845	318.932
61.5	253.768	274.761	299.506	310.240	312.567
62.0	249.161	270.439	294.709	304.541	306.108
62.5	244.459	265.974	289.865	298.509	299.221
63.0	239.852	261.510	285.020	292.382	292.002
63.5	235.197	257.140	280.033	285.970	284.213
64.0	230.495	252.723	274.999	279.226	276.091
64.5	225.888	248.164	269.774	272.149	267.637
65.0	221.044	243.604	264.407	264.645	258.660
65.5	216.057	238.855	258.898	256.760	249.161
66.0	211.022	233.915	252.961	248.354	239.045
66.5	205.940	228.881	246.739	239.472	228.216
67.0	200.526	223.656	240.422	230.258	217.529
67.5	195.159	218.337	233.915	220.901	206.320
68.0	189.697	212.922	227.266	211.022	195.064
68.5	184.282	207.413	220.331	201.001	183.522
69.0	178.440	201.808	213.160	190.694	172.171
69.5	172.693	196.204	205.940	180.245	160.677
70.0	167.089	190.552	198.721	169.796	149.753
70.5	161.437	184.852	191.122	159.822	139.019
71.0	155.975	179.248	183.475	149.658	128.665
71.5	150.561	173.643	175.591	139.874	118.739
72.0	145.146	168.039	167.754	130.470	109.429
72.5	139.684	162.339	159.632	121.446	100.548
73.0	134.365	156.687	151.178	112.754	92.521
73.5	129.093	151.035	142.819	104.632	84.874
74.0	123.916	145.431	134.650	96.843	77.845
74.5	118.644	139.589	126.528	89.671	71.386
75.0	113.467	133.842	118.501	83.117	65.449
75.5	108.480	127.953	110.712	76.943	60.129
76.0	103.493	122.158	103.303	71.053	55.000
76.5	98.553	116.364	96.273	65.781	50.583
77.0	93.756	110.617	89.624	60.984	46.593
77.5	88.959	104.965	83.354	56.615	42.936
78.0	84.209	99.265	77.608	52.577	39.659
78.5	79.745	93.851	72.241	48.825	36.619
79.0	75.470	88.579	67.206	45.311	33.864
79.5	71.338	83.497	62.551	42.176	31.394
80.0	67.349	78.747	58.182	39.231	29.162
80.5	63.216	74.235	54.097	36.429	27.167
81.0	59.084	69.771	50.250	33.864	25.268
81.5	55.142	65.306	46.546	31.394	23.605
82.0	51.105	60.984	42.983	29.115	21.848
82.5	47.068	56.567	39.564	26.787	20.091

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CANDELA TABULATION - (Cont.)

83.0	42.936	52.055	36.239	24.413	18.476
83.5	38.994	47.638	32.962	22.180	17.003
84.0	35.004	43.221	29.780	20.043	15.579
84.5	31.062	38.614	26.550	17.906	14.249
85.0	27.120	34.007	23.273	15.911	13.014
85.5	23.415	29.352	20.091	14.059	12.064
86.0	19.758	24.745	17.003	12.444	11.256
86.5	16.243	20.186	13.964	10.924	10.307
87.0	13.061	15.863	11.114	9.309	9.024
87.5	10.164	11.874	8.644	7.457	7.172
88.0	7.647	8.407	6.317	5.984	6.222
88.5	5.319	5.652	4.607	4.797	5.130
89.0	3.277	3.657	3.230	3.182	3.277
89.5	2.707	2.802	2.755	3.182	3.135
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-L20-950-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-L20-950-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	218.87	N.A.	12.00
0-30	470.87	N.A.	25.80
0-40	783.52	N.A.	42.90
0-60	1434.79	N.A.	78.60
0-80	1797.55	N.A.	98.50
0-90	1824.53	N.A.	100.00
10-90	1768.42	N.A.	96.90
20-40	564.65	N.A.	30.90
20-50	899.44	N.A.	49.30
40-70	897.96	N.A.	49.20
60-80	362.76	N.A.	19.90
70-80	116.07	N.A.	6.40
80-90	26.99	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	1824.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	56.11
10-20	162.76
20-30	252.00
30-40	312.65
40-50	334.79
50-60	316.48
60-70	246.69
70-80	116.07
80-90	26.99
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-L20-950-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	88	90	88	86	84
2	99	90	83	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-L20-950-DIM-UNV_.IES

UGR TABLE - CORRECTED

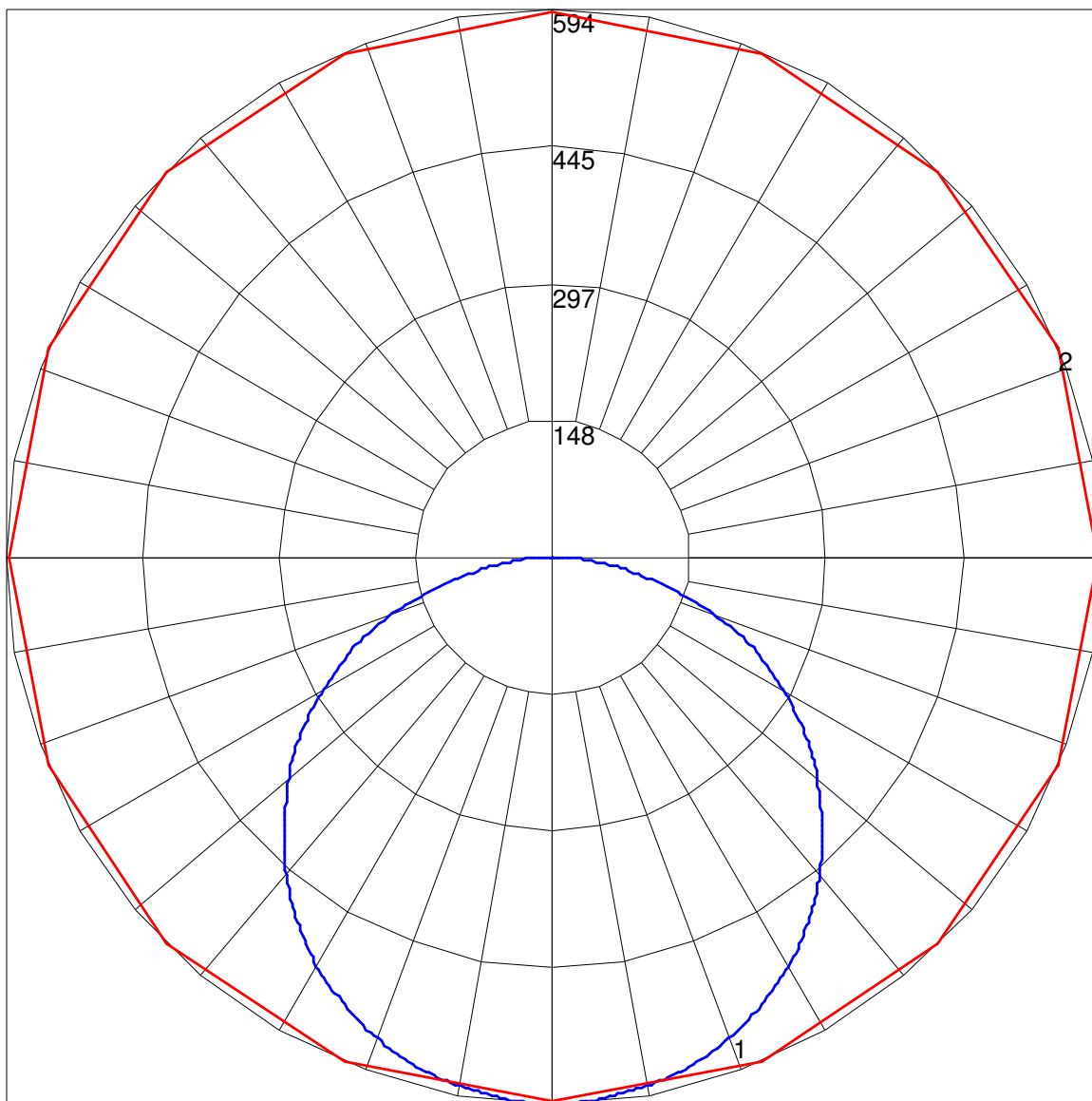
Reflectances

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	14.0	15.7	14.4	16.0	16.3	15.0	16.7	15.4	17.0	17.3
	3H	15.9	17.4	16.3	17.7	18.1	16.4	18.0	16.8	18.3	18.6
	4H	16.6	18.0	17.0	18.3	18.7	16.7	18.1	17.1	18.4	18.8
	6H	17.0	18.3	17.4	18.7	19.1	16.7	18.0	17.1	18.4	18.8
	8H	17.2	18.4	17.6	18.8	19.2	16.7	18.0	17.2	18.4	18.8
	12H	17.2	18.4	17.6	18.8	19.2	16.7	17.9	17.1	18.3	18.7
4H	2H	14.9	16.3	15.3	16.7	17.0	15.7	17.1	16.1	17.4	17.8
	3H	17.0	18.2	17.4	18.6	19.0	17.3	18.5	17.7	18.9	19.3
	4H	17.8	18.8	18.2	19.2	19.7	17.5	18.6	18.0	19.0	19.5
	6H	18.3	19.3	18.8	19.7	20.2	17.7	18.6	18.1	19.0	19.5
	8H	18.5	19.4	19.0	19.8	20.3	17.7	18.6	18.1	19.0	19.5
	12H	18.6	19.4	19.1	19.9	20.4	17.7	18.5	18.2	19.0	19.4
8H	4H	18.0	18.9	18.5	19.3	19.8	17.8	18.7	18.3	19.1	19.6
	6H	18.7	19.4	19.2	19.9	20.4	18.0	18.7	18.5	19.2	19.7
	8H	19.0	19.6	19.5	20.1	20.6	18.0	18.7	18.6	19.2	19.7
	12H	19.2	19.8	19.7	20.2	20.8	18.1	18.7	18.6	19.1	19.7
12H	4H	18.0	18.8	18.5	19.3	19.7	17.8	18.6	18.3	19.1	19.6
	6H	18.7	19.4	19.3	19.8	20.4	18.1	18.7	18.6	19.2	19.7
	8H	19.0	19.6	19.5	20.1	20.7	18.1	18.7	18.6	19.2	19.7

Maximum UGR = 20.8

POLAR GRAPH



Maximum Candela = 593.693 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.)