



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-22-L20-850-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GENERATED FROM 15729805.02
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 2025-05-02
 [TESTDATE] 3/21/2025
 [MANUFAC] WILLIAMS INDOOR
 [MORE] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] BAR-22-L20-850-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	2149
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
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	1954	2125	2256
55	1898	2165	2303
65	1803	2156	2109
75	1511	1578	872
85	1072	920	515

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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	698.120	698.120	698.120	698.120	698.120
0.5	697.560	699.238	698.120	697.560	697.560
1.0	697.001	699.238	698.120	697.560	697.560
1.5	697.001	698.679	698.120	697.001	697.560
2.0	697.001	698.679	697.560	697.001	697.001
2.5	697.001	698.679	697.001	696.442	696.442
3.0	696.442	698.120	696.442	695.882	696.442
3.5	695.882	697.560	695.882	695.882	695.882
4.0	695.323	697.001	695.882	695.323	695.323
4.5	694.763	696.442	694.763	694.763	694.763
5.0	694.204	695.323	694.204	694.204	694.763
5.5	693.645	694.763	693.645	693.645	694.204
6.0	692.526	694.204	693.085	693.085	693.645
6.5	691.966	693.085	692.526	693.085	693.085
7.0	691.407	692.526	691.966	692.526	693.085
7.5	690.288	691.407	690.848	691.966	692.526
8.0	689.729	690.848	690.288	691.407	691.966
8.5	688.610	689.729	689.729	690.848	691.407
9.0	687.491	688.610	688.610	690.288	691.407
9.5	686.372	687.491	688.051	689.729	690.848
10.0	685.813	686.932	687.491	689.169	690.288
10.5	684.694	685.813	686.372	688.610	690.288
11.0	683.576	684.694	685.813	688.051	689.729
11.5	682.457	683.576	684.694	687.491	689.169
12.0	681.338	682.457	684.135	686.932	688.610
12.5	680.219	681.338	683.016	686.372	688.610
13.0	678.541	680.219	682.457	685.813	688.051
13.5	677.422	679.100	681.338	685.254	687.491
14.0	675.744	677.422	680.219	684.694	686.932
14.5	674.625	676.303	679.100	683.576	686.372
15.0	672.947	674.625	677.982	683.016	685.813
15.5	671.269	672.947	676.863	681.897	684.694
16.0	669.591	671.269	675.744	680.779	684.135
16.5	667.913	669.591	674.066	680.219	683.016
17.0	665.675	667.913	672.947	678.541	682.457
17.5	663.997	666.234	671.269	677.422	680.779
18.0	661.759	663.997	669.591	676.303	679.660
18.5	659.522	661.759	667.913	674.625	678.541
19.0	657.284	660.081	666.234	673.507	677.422
19.5	655.606	657.844	664.556	671.828	675.744
20.0	652.809	655.606	662.878	670.710	674.625
20.5	650.571	653.368	660.641	669.031	673.507
21.0	648.334	651.131	658.962	667.353	671.828
21.5	646.096	648.893	656.725	665.675	670.150
22.0	643.299	646.656	654.487	663.997	668.472
22.5	640.502	643.859	652.809	662.319	666.794
23.0	638.265	641.621	650.571	660.641	665.675
23.5	635.468	639.384	648.893	658.962	663.997
24.0	633.230	637.146	646.656	657.284	662.319
24.5	629.874	634.349	644.978	655.606	661.200
25.0	627.636	631.552	642.740	653.928	659.522
25.5	624.840	629.315	641.062	652.250	658.403
26.0	622.043	626.518	638.824	650.571	656.725
26.5	619.246	624.280	636.587	648.893	655.606

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CANDELA TABULATION - (Cont.)

27.0	615.889	621.483	634.349	647.215	653.928
27.5	613.092	618.686	632.671	645.537	652.250
28.0	610.295	615.889	630.433	643.299	650.012
28.5	606.939	613.092	627.636	641.062	648.334
29.0	603.583	609.736	625.399	638.824	646.096
29.5	600.786	606.939	622.602	636.587	643.859
30.0	597.429	604.142	619.805	634.349	641.621
30.5	594.073	600.786	617.008	631.552	639.384
31.0	590.717	597.989	614.211	629.315	636.587
31.5	586.801	594.632	611.414	626.518	634.349
32.0	583.445	591.276	608.058	623.721	631.552
32.5	580.088	587.920	605.261	620.924	628.755
33.0	576.173	584.004	601.904	618.127	625.958
33.5	572.257	580.648	599.108	615.330	623.161
34.0	568.341	576.732	595.751	611.974	620.364
34.5	564.425	573.376	592.395	609.177	617.567
35.0	560.510	569.460	589.038	606.380	614.770
35.5	556.650	566.103	585.682	603.583	611.974
36.0	552.734	562.188	582.326	600.226	609.177
36.5	548.595	558.440	579.529	597.429	606.380
37.0	544.567	554.636	575.613	594.073	603.583
37.5	540.316	550.776	572.257	591.276	600.226
38.0	535.952	546.916	568.900	587.920	596.870
38.5	531.645	542.833	564.985	584.563	594.073
39.0	527.282	538.861	561.628	581.207	590.717
39.5	522.919	534.834	557.880	577.851	586.801
40.0	518.555	530.582	554.021	573.935	583.445
40.5	514.080	526.443	550.105	570.019	580.088
41.0	509.325	522.191	546.413	566.663	576.173
41.5	504.906	517.884	542.441	562.747	572.816
42.0	500.263	513.521	538.414	558.775	568.900
42.5	495.732	509.157	534.274	554.916	564.985
43.0	491.033	504.850	530.247	551.056	561.069
43.5	486.334	500.263	526.219	547.140	557.433
44.0	481.747	495.676	522.023	543.113	553.405
44.5	477.048	491.201	517.828	539.141	549.378
45.0	472.126	486.670	513.577	535.057	545.238
45.5	467.427	482.027	509.325	530.918	541.043
46.0	462.560	477.496	504.962	526.778	536.847
46.5	457.749	472.797	500.599	522.527	532.820
47.0	452.715	468.098	496.180	518.220	528.624
47.5	447.513	463.399	491.816	513.744	524.149
48.0	442.478	458.700	487.285	509.269	519.842
48.5	439.010	453.890	482.754	504.850	515.143
49.0	437.220	449.303	478.055	500.319	510.836
49.5	432.073	445.443	473.468	495.900	506.193
50.0	426.815	441.359	468.769	491.201	501.494
50.5	421.613	437.723	464.071	486.390	496.851
51.0	416.187	433.080	459.372	481.580	492.096
51.5	410.873	428.158	454.617	476.713	487.006
52.0	405.446	424.186	450.366	471.846	482.027
52.5	400.076	419.263	446.450	466.923	476.937
53.0	394.538	414.173	441.751	461.665	471.846
53.5	388.888	408.971	437.947	456.519	466.364
54.0	383.239	403.768	433.752	451.205	460.826
54.5	377.589	398.566	428.605	447.065	455.400

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CANDELA TABULATION - (Cont.)

55.0	372.107	393.308	424.354	442.702	451.484
55.5	366.513	388.105	419.375	437.220	446.618
56.0	360.919	382.735	414.061	431.850	440.576
56.5	355.269	377.365	408.579	427.934	434.423
57.0	349.563	371.827	403.041	422.228	428.158
57.5	343.858	366.401	397.503	416.243	424.186
58.0	338.264	361.031	392.021	410.257	417.641
58.5	332.726	355.717	386.483	404.216	411.096
59.0	327.020	350.402	380.889	397.895	404.328
59.5	321.370	344.864	375.183	391.518	397.503
60.0	315.608	339.494	369.534	384.973	390.343
60.5	309.958	334.068	363.884	378.596	383.015
61.0	304.476	328.754	358.234	371.995	375.631
61.5	298.882	323.608	352.752	365.394	368.135
62.0	293.456	318.517	347.102	358.681	360.527
62.5	287.918	313.259	341.396	351.577	352.416
63.0	282.492	308.001	335.690	344.361	343.913
63.5	277.010	302.854	329.817	336.809	334.739
64.0	271.472	297.652	323.887	328.866	325.174
64.5	266.046	292.282	317.734	320.531	315.217
65.0	260.340	286.912	311.413	311.693	304.644
65.5	254.467	281.318	304.924	302.407	293.456
66.0	248.537	275.500	297.932	292.505	281.541
66.5	242.552	269.570	290.604	282.045	268.787
67.0	236.175	263.417	283.164	271.193	256.201
67.5	229.854	257.152	275.500	260.173	242.999
68.0	223.421	250.775	267.668	248.537	229.742
68.5	217.044	244.286	259.501	236.734	216.149
69.0	210.163	237.685	251.055	224.595	202.779
69.5	203.394	231.084	242.552	212.289	189.242
70.0	196.794	224.428	234.049	199.982	176.376
70.5	190.137	217.715	225.099	188.235	163.734
71.0	183.704	211.114	216.093	176.264	151.539
71.5	177.327	204.513	206.807	164.741	139.848
72.0	170.950	197.912	197.577	153.665	128.884
72.5	164.517	191.200	188.011	143.036	118.423
73.0	158.252	184.543	178.054	132.799	108.969
73.5	152.042	177.886	168.209	123.234	99.963
74.0	145.945	171.285	158.587	114.060	91.684
74.5	139.736	164.405	149.022	105.613	84.076
75.0	133.638	157.636	139.568	97.893	77.084
75.5	127.765	150.700	130.394	90.621	70.819
76.0	121.891	143.875	121.667	83.685	64.777
76.5	116.074	137.051	113.389	77.476	59.575
77.0	110.424	130.282	105.557	71.826	54.876
77.5	104.774	123.625	98.173	66.679	50.569
78.0	99.180	116.913	91.404	61.925	46.709
78.5	93.922	110.536	85.083	57.505	43.129
79.0	88.887	104.326	79.154	53.366	39.885
79.5	84.020	98.341	73.672	49.674	36.976
80.0	79.322	92.747	68.525	46.206	34.347
80.5	74.455	87.433	63.715	42.905	31.997
81.0	69.588	82.175	59.184	39.885	29.760
81.5	64.945	76.916	54.820	36.976	27.802
82.0	60.190	71.826	50.625	34.291	25.732
82.5	55.436	66.623	46.597	31.550	23.662

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CANDELA TABULATION - (Cont.)

83.0	50.569	61.309	42.682	28.753	21.760
83.5	45.926	56.107	38.822	26.124	20.026
84.0	41.227	50.905	35.074	23.606	18.348
84.5	36.584	45.478	31.270	21.089	16.782
85.0	31.941	40.052	27.410	18.740	15.327
85.5	27.578	34.570	23.662	16.558	14.209
86.0	23.271	29.144	20.026	14.656	13.258
86.5	19.131	23.774	16.446	12.866	12.139
87.0	15.383	18.684	13.090	10.964	10.628
87.5	11.971	13.985	10.181	8.782	8.447
88.0	9.006	9.901	7.440	7.048	7.328
88.5	6.265	6.657	5.426	5.650	6.041
89.0	3.860	4.307	3.804	3.748	3.860
89.5	3.189	3.300	3.244	3.748	3.692
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-L20-850-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-L20-850-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	257.78	N.A.	12.00
0-30	554.58	N.A.	25.80
0-40	922.81	N.A.	42.90
0-60	1689.86	N.A.	78.60
0-80	2117.11	N.A.	98.50
0-90	2148.89	N.A.	100.00
10-90	2082.81	N.A.	96.90
20-40	665.03	N.A.	30.90
20-50	1059.34	N.A.	49.30
40-70	1057.59	N.A.	49.20
60-80	427.25	N.A.	19.90
70-80	136.70	N.A.	6.40
80-90	31.78	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	2148.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	66.09
10-20	191.69
20-30	296.80
30-40	368.24
40-50	394.30
50-60	372.74
60-70	290.55
70-80	136.70
80-90	31.78
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-L20-850-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	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-L20-850-DIM-UNV_.IES

UGR TABLE - CORRECTED

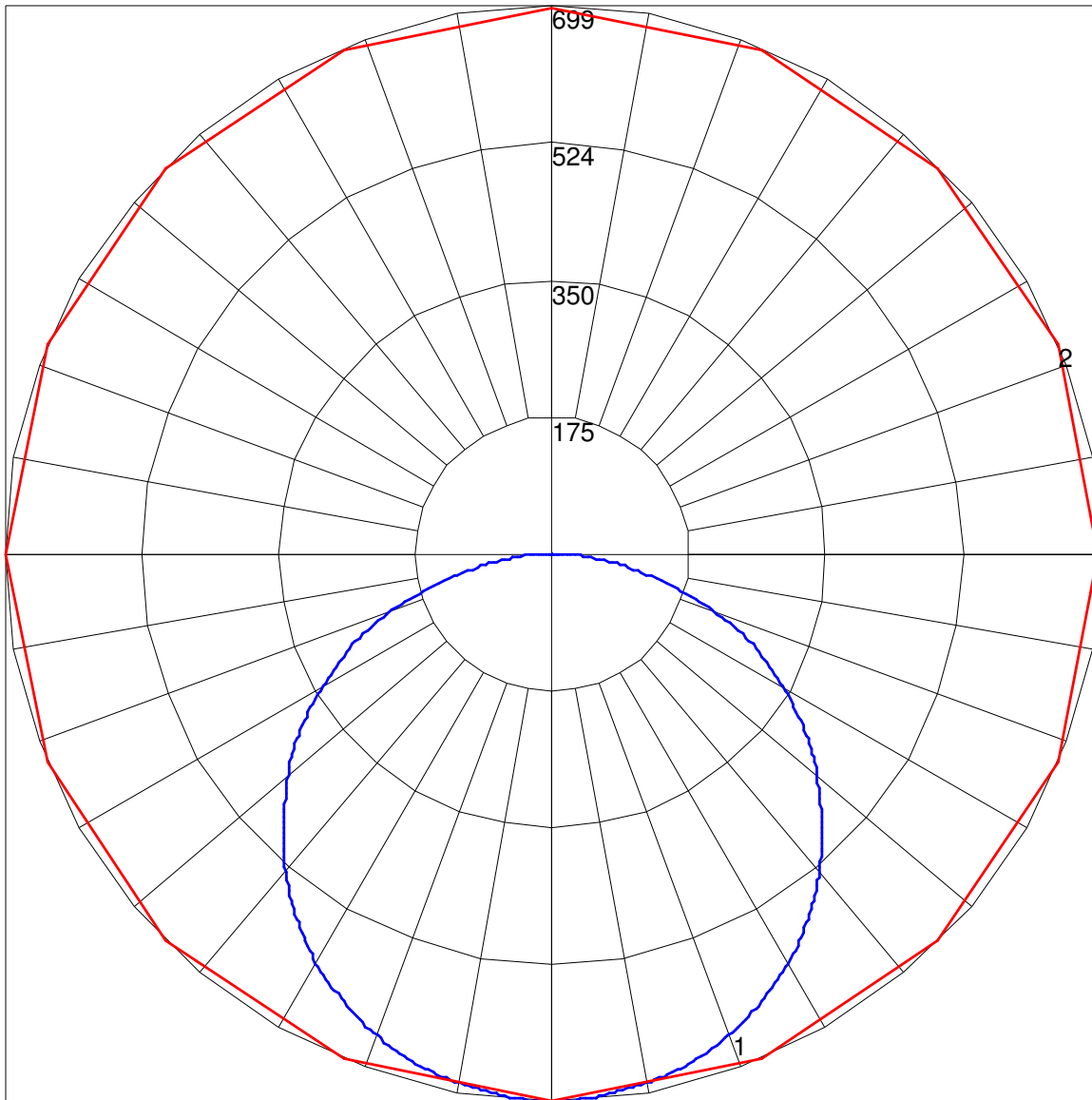
Reflectances

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	14.6	16.3	15.0	16.6	16.9	15.6	17.3	16.0	17.6	17.9
	3H	16.5	18.0	16.9	18.3	18.7	17.0	18.6	17.4	18.9	19.2
	4H	17.2	18.6	17.6	18.9	19.3	17.3	18.7	17.7	19.0	19.4
	6H	17.6	18.9	18.0	19.3	19.7	17.3	18.6	17.7	19.0	19.4
	8H	17.8	19.0	18.2	19.4	19.8	17.3	18.6	17.8	19.0	19.4
	12H	17.8	19.0	18.3	19.4	19.8	17.3	18.5	17.7	18.9	19.3
4H	2H	15.5	16.9	15.9	17.3	17.6	16.3	17.7	16.7	18.0	18.4
	3H	17.6	18.8	18.0	19.2	19.6	17.9	19.1	18.3	19.5	19.9
	4H	18.4	19.4	18.8	19.8	20.3	18.1	19.2	18.6	19.6	20.1
	6H	18.9	19.9	19.4	20.3	20.8	18.3	19.2	18.7	19.6	20.1
	8H	19.1	20.0	19.6	20.4	20.9	18.3	19.2	18.7	19.6	20.1
	12H	19.2	20.0	19.7	20.5	21.0	18.3	19.1	18.8	19.6	20.0
8H	4H	18.6	19.5	19.1	19.9	20.4	18.4	19.3	18.9	19.7	20.2
	6H	19.3	20.0	19.8	20.5	21.0	18.6	19.3	19.1	19.8	20.3
	8H	19.6	20.2	20.1	20.7	21.2	18.6	19.3	19.2	19.8	20.3
	12H	19.8	20.4	20.3	20.8	21.4	18.7	19.3	19.2	19.7	20.3
12H	4H	18.6	19.4	19.1	19.9	20.3	18.4	19.2	18.9	19.7	20.2
	6H	19.3	20.0	19.9	20.4	21.0	18.7	19.3	19.2	19.8	20.3
	8H	19.6	20.2	20.1	20.7	21.3	18.7	19.3	19.2	19.8	20.3

Maximum UGR = 21.4

POLAR GRAPH



Maximum Candela = 699.238 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.)