



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-22-L20-827-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-L20-827-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	1966
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
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	1788	1945	2065
55	1737	1981	2108
65	1650	1973	1930
75	1383	1444	798
85	981	842	471

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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	638.845	638.845	638.845	638.845	638.845
0.5	638.334	639.869	638.845	638.334	638.334
1.0	637.822	639.869	638.845	638.334	638.334
1.5	637.822	639.357	638.845	637.822	638.334
2.0	637.822	639.357	638.334	637.822	637.822
2.5	637.822	639.357	637.822	637.310	637.310
3.0	637.310	638.845	637.310	636.798	637.310
3.5	636.798	638.334	636.798	636.798	636.798
4.0	636.286	637.822	636.798	636.286	636.286
4.5	635.774	637.310	635.774	635.774	635.774
5.0	635.262	636.286	635.262	635.262	635.774
5.5	634.750	635.774	634.750	634.750	635.262
6.0	633.727	635.262	634.238	634.238	634.750
6.5	633.215	634.238	633.727	634.238	634.238
7.0	632.703	633.727	633.215	633.727	634.238
7.5	631.679	632.703	632.191	633.215	633.727
8.0	631.167	632.191	631.679	632.703	633.215
8.5	630.143	631.167	631.167	632.191	632.703
9.0	629.119	630.143	630.143	631.679	632.703
9.5	628.096	629.119	629.631	631.167	632.191
10.0	627.584	628.608	629.119	630.655	631.679
10.5	626.560	627.584	628.096	630.143	631.679
11.0	625.536	626.560	627.584	629.631	631.167
11.5	624.512	625.536	626.560	629.119	630.655
12.0	623.489	624.512	626.048	628.608	630.143
12.5	622.465	623.489	625.024	628.096	630.143
13.0	620.929	622.465	624.512	627.584	629.631
13.5	619.905	621.441	623.489	627.072	629.119
14.0	618.370	619.905	622.465	626.560	628.608
14.5	617.346	618.882	621.441	625.536	628.096
15.0	615.810	617.346	620.417	625.024	627.584
15.5	614.275	615.810	619.393	624.001	626.560
16.0	612.739	614.275	618.370	622.977	626.048
16.5	611.203	612.739	616.834	622.465	625.024
17.0	609.156	611.203	615.810	620.929	624.512
17.5	607.620	609.667	614.275	619.905	622.977
18.0	605.572	607.620	612.739	618.882	621.953
18.5	603.525	605.572	611.203	617.346	620.929
19.0	601.477	604.037	609.667	616.322	619.905
19.5	599.941	601.989	608.132	614.786	618.370
20.0	597.382	599.941	606.596	613.763	617.346
20.5	595.334	597.894	604.548	612.227	616.322
21.0	593.287	595.846	603.013	610.691	614.786
21.5	591.239	593.799	600.965	609.156	613.251
22.0	588.680	591.751	598.918	607.620	611.715
22.5	586.120	589.192	597.382	606.084	610.179
23.0	584.073	587.144	595.334	604.548	609.156
23.5	581.513	585.096	593.799	603.013	607.620
24.0	579.466	583.049	591.751	601.477	606.084
24.5	576.394	580.489	590.215	599.941	605.060
25.0	574.347	577.930	588.168	598.406	603.525
25.5	571.787	575.882	586.632	596.870	602.501
26.0	569.228	573.323	584.585	595.334	600.965
26.5	566.668	571.275	582.537	593.799	599.941

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CANDELA TABULATION - (Cont.)

27.0	563.597	568.716	580.489	592.263	598.406
27.5	561.037	566.156	578.954	590.727	596.870
28.0	558.478	563.597	576.906	588.680	594.822
28.5	555.407	561.037	574.347	586.632	593.287
29.0	552.335	557.966	572.299	584.585	591.239
29.5	549.776	555.407	569.740	582.537	589.192
30.0	546.704	552.847	567.180	580.489	587.144
30.5	543.633	549.776	564.621	577.930	585.096
31.0	540.562	547.216	562.061	575.882	582.537
31.5	536.978	544.145	559.502	573.323	580.489
32.0	533.907	541.073	556.430	570.763	577.930
32.5	530.836	538.002	553.871	568.204	575.370
33.0	527.252	534.419	550.799	565.644	572.811
33.5	523.669	531.347	548.240	563.085	570.251
34.0	520.086	527.764	545.169	560.014	567.692
34.5	516.502	524.693	542.097	557.454	565.133
35.0	512.919	521.110	539.026	554.895	562.573
35.5	509.387	518.038	535.955	552.335	560.014
36.0	505.804	514.455	532.883	549.264	557.454
36.5	502.016	511.025	530.324	546.704	554.895
37.0	498.330	507.544	526.740	543.633	552.335
37.5	494.440	504.012	523.669	541.073	549.264
38.0	490.447	500.480	520.598	538.002	546.192
38.5	486.505	496.743	517.014	534.931	543.633
39.0	482.513	493.109	513.943	531.859	540.562
39.5	478.520	489.423	510.513	528.788	536.978
40.0	474.527	485.533	506.981	525.205	533.907
40.5	470.432	481.745	503.398	521.621	530.836
41.0	466.081	477.854	500.019	518.550	527.252
41.5	462.037	473.913	496.385	514.967	524.181
42.0	457.788	469.920	492.699	511.332	520.598
42.5	453.642	465.927	488.911	507.800	517.014
43.0	449.342	461.986	485.226	504.268	513.431
43.5	445.042	457.788	481.540	500.685	510.104
44.0	440.844	453.591	477.701	496.999	506.418
44.5	436.544	449.495	473.862	493.365	502.732
45.0	432.040	445.349	469.971	489.628	498.944
45.5	427.740	441.100	466.081	485.840	495.105
46.0	423.286	436.954	462.088	482.052	491.266
46.5	418.884	432.654	458.095	478.162	487.580
47.0	414.277	428.354	454.051	474.220	483.741
47.5	409.516	424.054	450.058	470.125	479.646
48.0	404.909	419.754	445.912	466.030	475.704
48.5	401.736	415.352	441.766	461.986	471.404
49.0	400.097	411.154	437.466	457.839	467.463
49.5	395.388	407.622	433.268	453.795	463.214
50.0	390.576	403.885	428.968	449.495	458.914
50.5	385.816	400.558	424.668	445.093	454.666
51.0	380.850	396.309	420.369	440.691	450.314
51.5	375.987	391.805	416.017	436.237	445.656
52.0	371.022	388.170	412.127	431.784	441.100
52.5	366.108	383.666	408.544	427.279	436.442
53.0	361.040	379.007	404.244	422.467	431.784
53.5	355.870	374.247	400.763	417.758	426.767
54.0	350.700	369.486	396.924	412.895	421.699
54.5	345.529	364.725	392.214	409.107	416.734

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CANDELA TABULATION - (Cont.)

55.0	340.513	359.914	388.324	405.114	413.151
55.5	335.394	355.153	383.768	400.097	408.697
56.0	330.275	350.239	378.905	395.183	403.169
56.5	325.105	345.325	373.888	391.600	397.538
57.0	319.883	340.257	368.821	386.379	391.805
57.5	314.662	335.291	363.753	380.901	388.170
58.0	309.543	330.377	358.736	375.424	382.181
58.5	304.475	325.514	353.669	369.896	376.192
59.0	299.254	320.651	348.550	364.111	369.998
59.5	294.084	315.584	343.328	358.276	363.753
60.0	288.811	310.669	338.158	352.286	357.201
60.5	283.641	305.704	332.988	346.451	350.495
61.0	278.625	300.841	327.818	340.410	343.738
61.5	273.506	296.131	322.801	334.370	336.878
62.0	268.540	291.473	317.631	328.227	329.917
62.5	263.473	286.661	312.410	321.726	322.494
63.0	258.507	281.850	307.188	315.123	314.713
63.5	253.491	277.140	301.814	308.212	306.318
64.0	248.423	272.380	296.387	300.943	297.565
64.5	243.457	267.465	290.757	293.316	288.453
65.0	238.236	262.551	284.972	285.228	278.778
65.5	232.861	257.432	279.034	276.731	268.540
66.0	227.435	252.108	272.635	267.670	257.637
66.5	221.958	246.682	265.930	258.098	245.966
67.0	216.122	241.052	259.121	248.167	234.448
67.5	210.338	235.318	252.108	238.083	222.367
68.0	204.451	229.483	244.942	227.435	210.235
68.5	198.615	223.545	237.468	216.634	197.796
69.0	192.319	217.504	229.739	205.526	185.562
69.5	186.125	211.464	221.958	194.264	173.174
70.0	180.085	205.372	214.177	183.003	161.401
70.5	173.993	199.230	205.987	172.253	149.832
71.0	168.106	193.189	197.745	161.298	138.672
71.5	162.271	187.149	189.248	150.753	127.974
72.0	156.435	181.109	180.801	140.618	117.941
72.5	150.548	174.966	172.048	130.892	108.368
73.0	144.815	168.874	162.936	121.524	99.717
73.5	139.133	162.783	153.927	112.771	91.476
74.0	133.554	156.742	145.122	104.375	83.900
74.5	127.871	150.446	136.369	96.646	76.938
75.0	122.292	144.252	127.718	89.582	70.539
75.5	116.917	137.905	119.323	82.927	64.806
76.0	111.542	131.660	111.337	76.580	59.277
76.5	106.218	125.414	103.761	70.898	54.517
77.0	101.048	119.220	96.595	65.727	50.217
77.5	95.878	113.129	89.838	61.018	46.275
78.0	90.759	106.986	83.644	56.667	42.743
78.5	85.947	101.151	77.859	52.623	39.467
79.0	81.340	95.468	72.433	48.835	36.498
79.5	76.887	89.991	67.417	45.456	33.836
80.0	72.587	84.872	62.707	42.283	31.430
80.5	68.133	80.009	58.305	39.262	29.280
81.0	63.680	75.197	54.159	36.498	27.233
81.5	59.431	70.386	50.166	33.836	25.441
82.0	55.080	65.727	46.327	31.379	23.547
82.5	50.729	60.967	42.641	28.871	21.653

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CANDELA TABULATION - (Cont.)

83.0	46.275	56.104	39.058	26.311	19.913
83.5	42.027	51.343	35.526	23.906	18.326
84.0	37.727	46.582	32.096	21.602	16.790
84.5	33.478	41.617	28.615	19.298	15.357
85.0	29.229	36.652	25.083	17.148	14.026
85.5	25.236	31.635	21.653	15.152	13.002
86.0	21.295	26.670	18.326	13.412	12.132
86.5	17.507	21.756	15.050	11.774	11.108
87.0	14.077	17.097	11.978	10.033	9.726
87.5	10.955	12.797	9.316	8.037	7.730
88.0	8.242	9.061	6.808	6.450	6.706
88.5	5.733	6.092	4.965	5.170	5.528
89.0	3.532	3.942	3.481	3.430	3.532
89.5	2.918	3.020	2.969	3.430	3.379
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-L20-827-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-L20-827-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	235.89	N.A.	12.00
0-30	507.49	N.A.	25.80
0-40	844.46	N.A.	42.90
0-60	1546.38	N.A.	78.60
0-80	1937.36	N.A.	98.50
0-90	1966.44	N.A.	100.00
10-90	1905.96	N.A.	96.90
20-40	608.57	N.A.	30.90
20-50	969.39	N.A.	49.30
40-70	967.80	N.A.	49.20
60-80	390.98	N.A.	19.90
70-80	125.10	N.A.	6.40
80-90	29.08	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	1966.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	60.48
10-20	175.42
20-30	271.60
30-40	336.97
40-50	360.83
50-60	341.09
60-70	265.88
70-80	125.10
80-90	29.08
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-L20-827-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	63	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	46	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-L20-827-DIM-UNV_.IES

UGR TABLE - CORRECTED

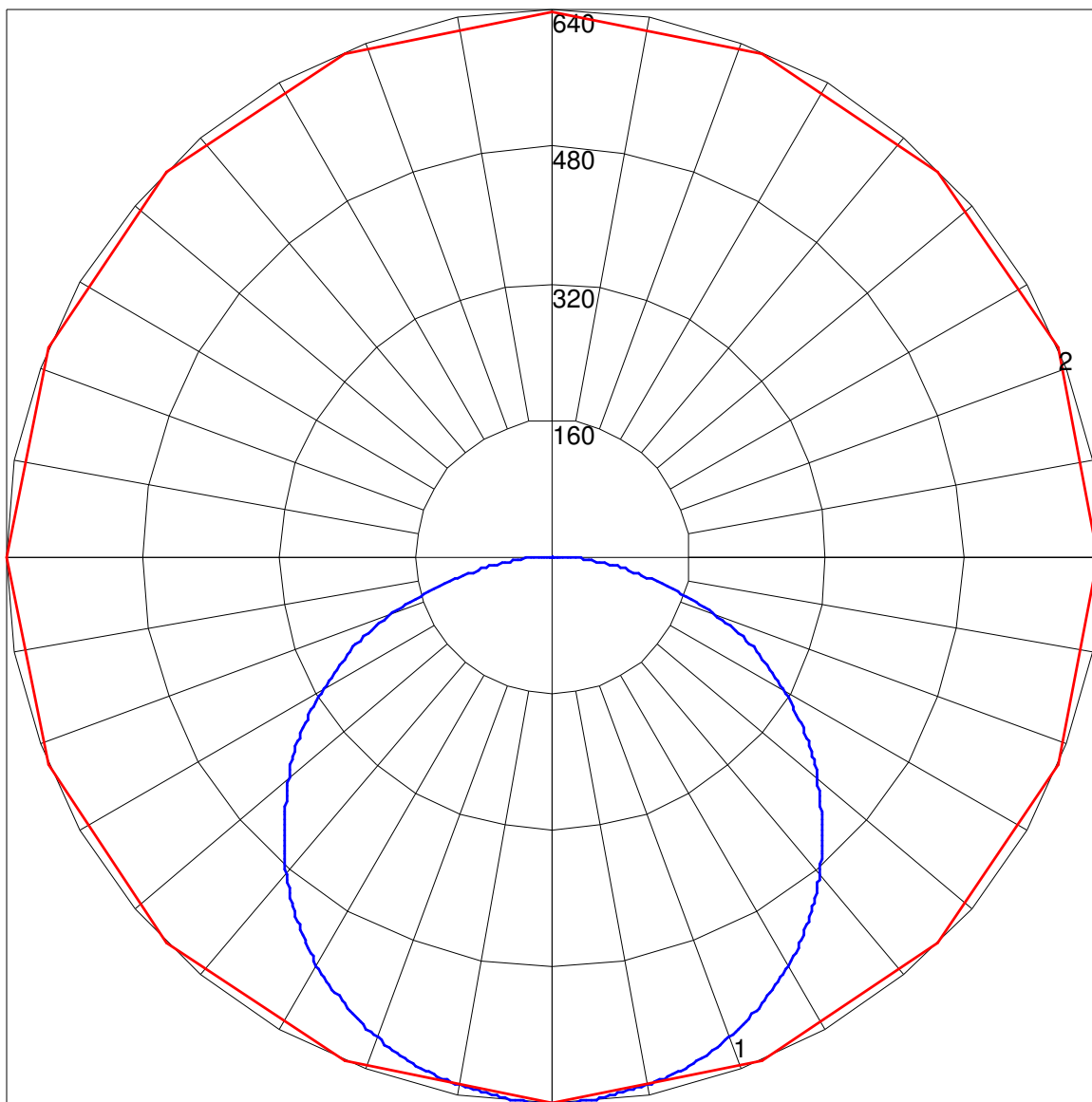
Reflectances

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	14.3	16.0	14.7	16.3	16.6	15.3	17.0	15.7	17.3	17.6
	3H	16.2	17.7	16.6	18.0	18.4	16.7	18.3	17.1	18.6	18.9
	4H	16.9	18.3	17.3	18.6	19.0	17.0	18.4	17.4	18.7	19.1
	6H	17.3	18.6	17.7	19.0	19.4	17.0	18.3	17.4	18.7	19.1
	8H	17.5	18.7	17.9	19.1	19.5	17.0	18.3	17.5	18.7	19.1
	12H	17.5	18.7	17.9	19.1	19.5	17.0	18.2	17.4	18.6	19.0
4H	2H	15.2	16.6	15.6	17.0	17.3	16.0	17.4	16.4	17.7	18.1
	3H	17.3	18.5	17.7	18.9	19.3	17.6	18.8	18.0	19.2	19.6
	4H	18.1	19.1	18.5	19.5	20.0	17.8	18.9	18.3	19.3	19.8
	6H	18.6	19.6	19.1	20.0	20.5	18.0	18.9	18.4	19.3	19.8
	8H	18.8	19.7	19.3	20.1	20.6	18.0	18.9	18.4	19.3	19.8
	12H	18.9	19.7	19.4	20.2	20.7	18.0	18.8	18.5	19.3	19.7
8H	4H	18.3	19.2	18.8	19.6	20.1	18.1	19.0	18.6	19.4	19.9
	6H	19.0	19.7	19.5	20.2	20.7	18.3	19.0	18.8	19.5	20.0
	8H	19.3	19.9	19.8	20.4	20.9	18.3	19.0	18.9	19.5	20.0
	12H	19.5	20.1	20.0	20.5	21.1	18.4	19.0	18.9	19.4	20.0
12H	4H	18.3	19.1	18.8	19.6	20.0	18.1	18.9	18.6	19.4	19.9
	6H	19.0	19.7	19.6	20.1	20.7	18.4	19.0	18.9	19.5	20.0
	8H	19.3	19.9	19.8	20.4	21.0	18.4	19.0	18.9	19.5	20.0

Maximum UGR = 21.1

POLAR GRAPH



Maximum Candela = 639.869 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.)