



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-22-L30-940-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-L30-940-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	2564
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
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	2331	2536	2692
55	2265	2583	2748
65	2151	2573	2517
75	1803	1883	1040
85	1280	1098	614

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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	832.973	832.973	832.973	832.973	832.973
0.5	832.305	834.308	832.973	832.305	832.305
1.0	831.638	834.308	832.973	832.305	832.305
1.5	831.638	833.640	832.973	831.638	832.305
2.0	831.638	833.640	832.305	831.638	831.638
2.5	831.638	833.640	831.638	830.970	830.970
3.0	830.970	832.973	830.970	830.303	830.970
3.5	830.303	832.305	830.303	830.303	830.303
4.0	829.635	831.638	830.303	829.635	829.635
4.5	828.968	830.970	828.968	828.968	828.968
5.0	828.301	829.635	828.301	828.301	828.968
5.5	827.633	828.968	827.633	827.633	828.301
6.0	826.298	828.301	826.966	826.966	827.633
6.5	825.631	826.966	826.298	826.966	826.966
7.0	824.963	826.298	825.631	826.298	826.966
7.5	823.628	824.963	824.296	825.631	826.298
8.0	822.961	824.296	823.628	824.963	825.631
8.5	821.626	822.961	822.961	824.296	824.963
9.0	820.291	821.626	821.626	823.628	824.963
9.5	818.956	820.291	820.959	822.961	824.296
10.0	818.289	819.624	820.291	822.293	823.628
10.5	816.954	818.289	818.956	821.626	823.628
11.0	815.619	816.954	818.289	820.959	822.961
11.5	814.284	815.619	816.954	820.291	822.293
12.0	812.949	814.284	816.286	819.624	821.626
12.5	811.614	812.949	814.952	818.956	821.626
13.0	809.612	811.614	814.284	818.289	820.959
13.5	808.277	810.279	812.949	817.621	820.291
14.0	806.275	808.277	811.614	816.954	819.624
14.5	804.940	806.942	810.279	815.619	818.956
15.0	802.938	804.940	808.945	814.952	818.289
15.5	800.935	802.938	807.610	813.617	816.954
16.0	798.933	800.935	806.275	812.282	816.286
16.5	796.931	798.933	804.272	811.614	814.952
17.0	794.261	796.931	802.938	809.612	814.284
17.5	792.258	794.928	800.935	808.277	812.282
18.0	789.589	792.258	798.933	806.942	810.947
18.5	786.919	789.589	796.931	804.940	809.612
19.0	784.249	787.586	794.928	803.605	808.277
19.5	782.247	784.917	792.926	801.603	806.275
20.0	778.910	782.247	790.924	800.268	804.940
20.5	776.240	779.577	788.254	798.265	803.605
21.0	773.570	776.907	786.251	796.263	801.603
21.5	770.900	774.237	783.582	794.261	799.600
22.0	767.563	771.568	780.912	792.258	797.598
22.5	764.226	768.230	778.910	790.256	795.596
23.0	761.556	765.561	776.240	788.254	794.261
23.5	758.219	762.891	774.237	786.251	792.258
24.0	755.549	760.221	771.568	784.249	790.256
24.5	751.544	756.884	769.565	782.247	788.921
25.0	748.874	753.547	766.895	780.244	786.919
25.5	745.537	750.877	764.893	778.242	785.584
26.0	742.200	747.540	762.223	776.240	783.582
26.5	738.863	744.870	759.554	774.237	782.247

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**CANDELA TABULATION - (Cont.)**

27.0	734.858	741.533	756.884	772.235	780.244
27.5	731.521	738.195	754.881	770.233	778.242
28.0	728.184	734.858	752.212	767.563	775.572
28.5	724.179	731.521	748.874	764.893	773.570
29.0	720.174	727.516	746.205	762.223	770.900
29.5	716.837	724.179	742.867	759.554	768.230
30.0	712.832	720.842	739.530	756.884	765.561
30.5	708.828	716.837	736.193	753.547	762.891
31.0	704.823	713.500	732.856	750.877	759.554
31.5	700.151	709.495	729.518	747.540	756.884
32.0	696.146	705.490	725.514	744.202	753.547
32.5	692.142	701.486	722.177	740.865	750.209
33.0	687.469	696.814	718.172	737.528	746.872
33.5	682.797	692.809	714.835	734.191	743.535
34.0	678.125	688.137	710.830	730.186	740.198
34.5	673.453	684.132	706.825	726.849	736.860
35.0	668.781	679.460	702.821	723.511	733.523
35.5	664.176	675.455	698.816	720.174	730.186
36.0	659.503	670.783	694.811	716.170	726.849
36.5	654.564	666.311	691.474	712.832	723.511
37.0	649.759	661.773	686.802	708.828	720.174
37.5	644.686	657.167	682.797	705.490	716.170
38.0	639.480	652.562	678.793	701.486	712.165
38.5	634.341	647.690	674.120	697.481	708.828
39.0	629.135	642.951	670.116	693.476	704.823
39.5	623.929	638.145	665.644	689.472	700.151
40.0	618.722	633.073	661.039	684.800	696.146
40.5	613.383	628.133	656.366	680.127	692.142
41.0	607.710	623.061	651.961	676.123	687.469
41.5	602.437	617.922	647.222	671.451	683.465
42.0	596.897	612.715	642.417	666.712	678.793
42.5	591.491	607.509	637.478	662.106	674.120
43.0	585.884	602.370	632.672	657.501	669.448
43.5	580.278	596.897	627.866	652.829	665.110
44.0	574.805	591.424	622.861	648.023	660.304
44.5	569.198	586.084	617.855	643.284	655.499
45.0	563.324	580.678	612.782	638.412	650.560
45.5	557.718	575.138	607.710	633.473	645.554
46.0	551.911	569.732	602.504	628.534	640.548
46.5	546.171	564.125	597.297	623.461	635.742
47.0	540.164	558.519	592.025	618.322	630.736
47.5	533.957	552.912	586.819	612.982	625.397
48.0	527.950	547.306	581.412	607.643	620.258
48.5	523.812	541.566	576.006	602.370	614.651
49.0	521.676	536.093	570.399	596.964	609.512
49.5	515.535	531.487	564.926	591.691	603.972
50.0	509.261	526.615	559.320	586.084	598.365
50.5	503.054	522.277	553.713	580.344	592.826
51.0	496.580	516.737	548.107	574.604	587.152
51.5	490.239	510.863	542.433	568.797	581.079
52.0	483.765	506.124	537.361	562.991	575.138
52.5	477.357	500.251	532.689	557.117	569.064
53.0	470.750	494.177	527.082	550.843	562.991
53.5	464.008	487.970	522.543	544.703	556.450
54.0	457.267	481.763	517.538	538.362	549.842
54.5	450.526	475.555	511.397	533.423	543.368

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**CANDELA TABULATION - (Cont.)**

55.0	443.985	469.281	506.325	528.217	538.696
55.5	437.311	463.074	500.384	521.676	532.889
56.0	430.636	456.667	494.044	515.268	525.680
56.5	423.895	450.259	487.503	510.596	518.339
57.0	417.087	443.651	480.895	503.788	510.863
57.5	410.279	437.177	474.287	496.647	506.124
58.0	403.605	430.770	467.746	489.505	498.315
58.5	396.997	424.429	461.138	482.296	490.506
59.0	390.189	418.088	454.464	474.754	482.430
59.5	383.448	411.480	447.656	467.145	474.287
60.0	376.573	405.073	440.915	459.336	465.744
60.5	369.832	398.599	434.174	451.727	457.000
61.0	363.291	392.258	427.432	443.852	448.190
61.5	356.616	386.118	420.891	435.976	439.246
62.0	350.142	380.044	414.150	427.966	430.169
62.5	343.534	373.770	407.342	419.490	420.491
63.0	337.060	367.496	400.534	410.880	410.346
63.5	330.519	361.355	393.526	401.869	399.400
64.0	323.912	355.148	386.451	392.392	387.986
64.5	317.437	348.741	379.109	382.447	376.106
65.0	310.629	342.333	371.567	371.901	363.491
65.5	303.621	335.659	363.825	360.821	350.142
66.0	296.546	328.717	355.482	349.008	335.926
66.5	289.405	321.642	346.738	336.526	320.708
67.0	281.796	314.300	337.861	323.578	305.690
67.5	274.254	306.825	328.717	310.429	289.939
68.0	266.578	299.216	319.373	296.546	274.120
68.5	258.969	291.474	309.628	282.463	257.901
69.0	250.759	283.598	299.550	267.980	241.949
69.5	242.683	275.722	289.405	253.296	225.797
70.0	234.808	267.779	279.259	238.612	210.446
70.5	226.865	259.770	268.580	224.596	195.361
71.0	219.189	251.894	257.834	210.312	180.811
71.5	211.580	244.018	246.755	196.563	166.862
72.0	203.972	236.142	235.742	183.347	153.780
72.5	196.296	228.133	224.329	170.666	141.298
73.0	188.820	220.190	212.448	158.452	130.018
73.5	181.412	212.248	200.701	147.038	119.273
74.0	174.137	204.372	189.221	136.092	109.394
74.5	166.728	196.162	177.808	126.014	100.317
75.0	159.453	188.086	166.528	116.803	91.974
75.5	152.445	179.810	155.582	108.126	84.499
76.0	145.436	171.667	145.170	99.850	77.290
76.5	138.495	163.524	135.291	92.441	71.083
77.0	131.754	155.448	125.947	85.700	65.476
77.5	125.013	147.506	117.137	79.560	60.337
78.0	118.338	139.496	109.061	73.886	55.732
78.5	112.064	131.887	101.519	68.613	51.460
79.0	106.057	124.479	94.444	63.674	47.589
79.5	100.250	117.337	87.903	59.269	44.118
80.0	94.644	110.663	81.762	55.131	40.981
80.5	88.837	104.322	76.022	51.193	38.178
81.0	83.030	98.048	70.616	47.589	35.508
81.5	77.490	91.774	65.410	44.118	33.172
82.0	71.817	85.700	60.404	40.914	30.703
82.5	66.144	79.493	55.598	37.644	28.233

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**CANDELA TABULATION - (Cont.)**

83.0	60.337	73.152	50.926	34.307	25.964
83.5	54.797	66.945	46.321	31.170	23.895
84.0	49.191	60.738	41.849	28.166	21.892
84.5	43.651	54.263	37.310	25.163	20.023
85.0	38.111	47.789	32.705	22.359	18.288
85.5	32.905	41.248	28.233	19.756	16.953
86.0	27.766	34.774	23.895	17.487	15.818
86.5	22.827	28.366	19.623	15.351	14.484
87.0	18.355	22.293	15.618	13.082	12.681
87.5	14.283	16.686	12.148	10.479	10.078
88.0	10.746	11.814	8.877	8.410	8.744
88.5	7.475	7.943	6.474	6.741	7.208
89.0	4.605	5.139	4.539	4.472	4.605
89.5	3.804	3.938	3.871	4.472	4.405
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-L30-940-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-L30-940-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	307.57	N.A.	12.00
0-30	661.70	N.A.	25.80
0-40	1101.07	N.A.	42.90
0-60	2016.28	N.A.	78.60
0-80	2526.06	N.A.	98.50
0-90	2563.99	N.A.	100.00
10-90	2485.13	N.A.	96.90
20-40	793.50	N.A.	30.90
20-50	1263.97	N.A.	49.30
40-70	1261.89	N.A.	49.20
60-80	509.78	N.A.	19.90
70-80	163.11	N.A.	6.40
80-90	37.92	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	2563.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	78.85
10-20	228.72
20-30	354.13
30-40	439.37
40-50	470.47
50-60	444.74
60-70	346.67
70-80	163.11
80-90	37.92
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-L30-940-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-L30-940-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

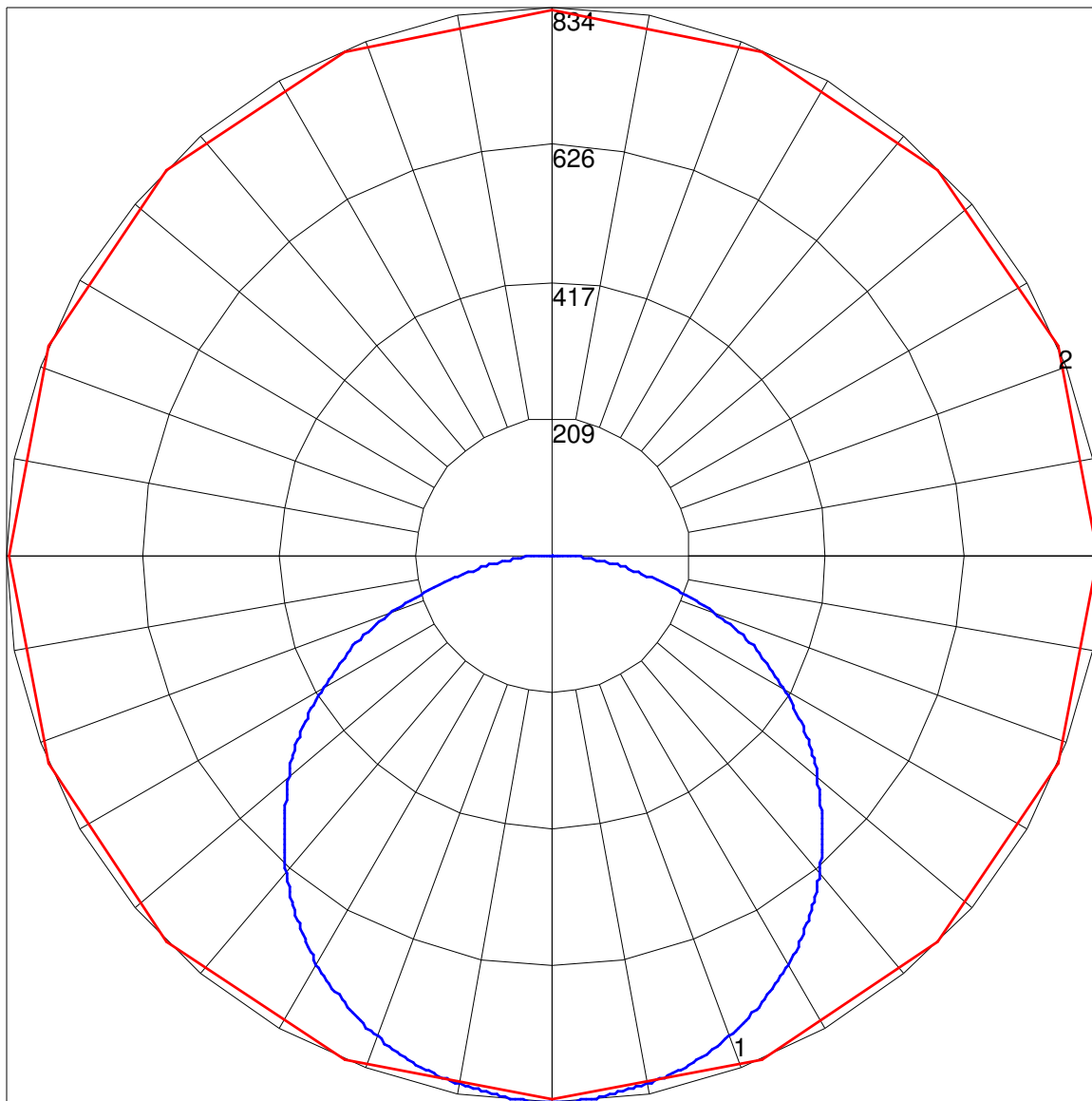
Reflectances

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	15.2	16.9	15.6	17.2	17.5	16.2	17.9	16.6	18.2	18.5
	3H	17.1	18.6	17.5	18.9	19.3	17.6	19.2	18.0	19.5	19.8
	4H	17.8	19.2	18.2	19.5	19.9	17.9	19.3	18.3	19.6	20.0
	6H	18.2	19.5	18.6	19.9	20.3	17.9	19.2	18.3	19.6	20.0
	8H	18.4	19.6	18.8	20.0	20.4	17.9	19.2	18.4	19.6	20.0
	12H	18.4	19.6	18.8	20.0	20.4	17.9	19.1	18.3	19.5	19.9
4H	2H	16.1	17.5	16.5	17.9	18.2	16.9	18.3	17.3	18.6	19.0
	3H	18.2	19.4	18.6	19.8	20.2	18.5	19.7	18.9	20.1	20.5
	4H	19.0	20.0	19.4	20.4	20.9	18.7	19.8	19.2	20.2	20.7
	6H	19.5	20.5	20.0	20.9	21.4	18.9	19.8	19.3	20.2	20.7
	8H	19.7	20.6	20.2	21.0	21.5	18.9	19.8	19.3	20.2	20.7
	12H	19.8	20.6	20.3	21.1	21.6	18.9	19.7	19.4	20.2	20.6
8H	4H	19.2	20.1	19.7	20.5	21.0	19.0	19.9	19.5	20.3	20.8
	6H	19.9	20.6	20.4	21.1	21.6	19.2	19.9	19.7	20.4	20.9
	8H	20.2	20.8	20.7	21.3	21.8	19.2	19.9	19.8	20.4	20.9
	12H	20.4	21.0	20.9	21.4	22.0	19.3	19.9	19.8	20.3	20.9
12H	4H	19.2	20.0	19.7	20.5	20.9	19.0	19.8	19.5	20.3	20.8
	6H	19.9	20.6	20.5	21.0	21.6	19.3	19.9	19.8	20.4	20.9
	8H	20.2	20.8	20.7	21.3	21.9	19.3	19.9	19.8	20.4	20.9

Maximum UGR = 22.0

POLAR GRAPH



Maximum Candela = 834.308 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.)