



IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L20-930-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-L20-930-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	1683
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
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	1530	1664	1767
55	1487	1695	1804
65	1412	1688	1652
75	1183	1236	682
85	840	721	403

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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	546.641	546.641	546.641	546.641	546.641
0.5	546.203	547.517	546.641	546.203	546.203
1.0	545.765	547.517	546.641	546.203	546.203
1.5	545.765	547.079	546.641	545.765	546.203
2.0	545.765	547.079	546.203	545.765	545.765
2.5	545.765	547.079	545.765	545.327	545.327
3.0	545.327	546.641	545.327	544.889	545.327
3.5	544.889	546.203	544.889	544.889	544.889
4.0	544.451	545.765	544.889	544.451	544.451
4.5	544.013	545.327	544.013	544.013	544.013
5.0	543.575	544.451	543.575	543.575	544.013
5.5	543.137	544.013	543.137	543.137	543.575
6.0	542.261	543.575	542.699	542.699	543.137
6.5	541.823	542.699	542.261	542.699	542.699
7.0	541.385	542.261	541.823	542.261	542.699
7.5	540.509	541.385	540.947	541.823	542.261
8.0	540.071	540.947	540.509	541.385	541.823
8.5	539.195	540.071	540.071	540.947	541.385
9.0	538.319	539.195	539.195	540.509	541.385
9.5	537.443	538.319	538.757	540.071	540.947
10.0	537.005	537.881	538.319	539.633	540.509
10.5	536.129	537.005	537.443	539.195	540.509
11.0	535.252	536.129	537.005	538.757	540.071
11.5	534.376	535.252	536.129	538.319	539.633
12.0	533.500	534.376	535.691	537.881	539.195
12.5	532.624	533.500	534.814	537.443	539.195
13.0	531.310	532.624	534.376	537.005	538.757
13.5	530.434	531.748	533.500	536.567	538.319
14.0	529.120	530.434	532.624	536.129	537.881
14.5	528.244	529.558	531.748	535.252	537.443
15.0	526.930	528.244	530.872	534.814	537.005
15.5	525.616	526.930	529.996	533.938	536.129
16.0	524.302	525.616	529.120	533.062	535.691
16.5	522.988	524.302	527.806	532.624	534.814
17.0	521.236	522.988	526.930	531.310	534.376
17.5	519.922	521.674	525.616	530.434	533.062
18.0	518.170	519.922	524.302	529.558	532.186
18.5	516.418	518.170	522.988	528.244	531.310
19.0	514.666	516.856	521.674	527.368	530.434
19.5	513.352	515.104	520.360	526.054	529.120
20.0	511.162	513.352	519.046	525.178	528.244
20.5	509.410	511.600	517.294	523.864	527.368
21.0	507.658	509.848	515.980	522.550	526.054
21.5	505.906	508.096	514.228	521.236	524.740
22.0	503.716	506.344	512.476	519.922	523.426
22.5	501.525	504.154	511.162	518.608	522.112
23.0	499.773	502.401	509.410	517.294	521.236
23.5	497.583	500.649	508.096	515.980	519.922
24.0	495.831	498.897	506.344	514.666	518.608
24.5	493.203	496.707	505.030	513.352	517.732
25.0	491.451	494.517	503.278	512.038	516.418
25.5	489.261	492.765	501.963	510.724	515.542
26.0	487.071	490.575	500.211	509.410	514.228
26.5	484.881	488.823	498.459	508.096	513.352

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L20-930-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	482.253	486.633	496.707	506.782	512.038
27.5	480.063	484.443	495.393	505.468	510.724
28.0	477.873	482.253	493.641	503.716	508.972
28.5	475.245	480.063	491.451	501.963	507.658
29.0	472.617	477.435	489.699	500.211	505.906
29.5	470.426	475.245	487.509	498.459	504.154
30.0	467.798	473.055	485.319	496.707	502.401
30.5	465.170	470.426	483.129	494.517	500.649
31.0	462.542	468.236	480.939	492.765	498.459
31.5	459.476	465.608	478.749	490.575	496.707
32.0	456.848	462.980	476.121	488.385	494.517
32.5	454.220	460.352	473.931	486.195	492.327
33.0	451.154	457.286	471.303	484.005	490.137
33.5	448.088	454.658	469.112	481.815	487.947
34.0	445.022	451.592	466.484	479.187	485.757
34.5	441.956	448.964	463.856	476.997	483.567
35.0	438.890	445.898	461.228	474.807	481.377
35.5	435.867	443.270	458.600	472.617	479.187
36.0	432.801	440.204	455.972	469.988	476.997
36.5	429.560	437.269	453.782	467.798	474.807
37.0	426.406	434.290	450.716	465.170	472.617
37.5	423.077	431.268	448.088	462.980	469.988
38.0	419.661	428.246	445.460	460.352	467.360
38.5	416.288	425.048	442.394	457.724	465.170
39.0	412.872	421.938	439.766	455.096	462.542
39.5	409.455	418.785	436.831	452.468	459.476
40.0	406.039	415.456	433.809	449.402	456.848
40.5	402.534	412.214	430.742	446.336	454.220
41.0	398.811	408.886	427.852	443.708	451.154
41.5	395.351	405.513	424.742	440.642	448.526
42.0	391.715	402.096	421.588	437.532	445.460
42.5	388.168	398.680	418.347	434.509	442.394
43.0	384.488	395.307	415.193	431.487	439.328
43.5	380.809	391.715	412.039	428.421	436.480
44.0	377.217	388.124	408.754	425.267	433.327
44.5	373.538	384.620	405.469	422.157	430.173
45.0	369.683	381.072	402.140	418.960	426.932
45.5	366.004	377.436	398.811	415.719	423.647
46.0	362.193	373.888	395.395	412.477	420.362
46.5	358.426	370.209	391.978	409.148	417.208
47.0	354.484	366.530	388.518	405.776	413.923
47.5	350.411	362.850	385.101	402.272	410.419
48.0	346.469	359.171	381.554	398.767	407.046
48.5	343.753	355.404	378.006	395.307	403.367
49.0	342.351	351.812	374.326	391.759	399.994
49.5	338.322	348.790	370.735	388.299	396.358
50.0	334.204	345.593	367.055	384.620	392.679
50.5	330.131	342.746	363.376	380.853	389.044
51.0	325.882	339.110	359.697	377.086	385.320
51.5	321.721	335.256	355.974	373.275	381.335
52.0	317.472	332.146	352.645	369.464	377.436
52.5	313.267	328.291	349.579	365.610	373.450
53.0	308.931	324.305	345.899	361.493	369.464
53.5	304.507	320.232	342.921	357.463	365.172
54.0	300.083	316.158	339.636	353.302	360.836
54.5	295.659	312.085	335.606	350.060	356.587

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PHOTOMETRIC FILENAME : BAR-22-L20-930-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	291.367	307.967	332.277	346.644	353.521
55.5	286.986	303.894	328.379	342.351	349.710
56.0	282.606	299.689	324.218	338.146	344.979
56.5	278.182	295.484	319.925	335.080	340.161
57.0	273.715	291.148	315.589	330.613	335.256
57.5	269.247	286.899	311.252	325.926	332.146
58.0	264.867	282.694	306.960	321.239	327.021
58.5	260.530	278.533	302.624	316.509	321.896
59.0	256.063	274.372	298.243	311.559	316.596
59.5	251.639	270.035	293.776	306.566	311.252
60.0	247.127	265.830	289.352	301.441	305.646
60.5	242.703	261.582	284.928	296.448	299.908
61.0	238.411	257.421	280.504	291.279	294.126
61.5	234.031	253.391	276.211	286.110	288.257
62.0	229.782	249.405	271.787	280.854	282.300
62.5	225.446	245.288	267.320	275.291	275.949
63.0	221.197	241.170	262.852	269.641	269.291
63.5	216.904	237.141	258.253	263.728	262.107
64.0	212.568	233.067	253.610	257.508	254.617
64.5	208.319	228.862	248.792	250.982	246.821
65.0	203.851	224.657	243.842	244.061	238.542
65.5	199.252	220.277	238.761	236.790	229.782
66.0	194.609	215.722	233.286	229.037	220.452
66.5	189.923	211.079	227.548	220.846	210.465
67.0	184.929	206.261	221.722	212.349	200.610
67.5	179.980	201.355	215.722	203.720	190.273
68.0	174.943	196.361	209.589	194.609	179.892
68.5	169.949	191.280	203.194	185.367	169.248
69.0	164.562	186.112	196.580	175.862	158.780
69.5	159.262	180.943	189.923	166.226	148.180
70.0	154.093	175.731	183.265	156.590	138.106
70.5	148.881	170.475	176.257	147.392	128.207
71.0	143.844	165.306	169.205	138.018	118.658
71.5	138.850	160.138	161.934	128.995	109.503
72.0	133.857	154.969	154.706	120.322	100.918
72.5	128.820	149.713	147.216	112.000	92.727
73.0	123.914	144.501	139.420	103.984	85.325
73.5	119.052	139.288	131.711	96.494	78.273
74.0	114.278	134.120	124.177	89.311	71.790
74.5	109.416	128.732	116.687	82.697	65.833
75.0	104.641	123.432	109.284	76.652	60.358
75.5	100.042	118.001	102.101	70.958	55.453
76.0	95.443	112.657	95.268	65.527	50.722
76.5	90.888	107.313	88.785	60.665	46.648
77.0	86.464	102.013	82.653	56.241	42.969
77.5	82.040	96.801	76.871	52.211	39.596
78.0	77.660	91.545	71.571	48.488	36.574
78.5	73.542	86.551	66.622	45.028	33.771
79.0	69.600	81.690	61.979	41.786	31.230
79.5	65.790	77.003	57.686	38.896	28.953
80.0	62.110	72.623	53.657	36.180	26.894
80.5	58.300	68.462	49.890	33.596	25.054
81.0	54.489	64.344	46.342	31.230	23.302
81.5	50.853	60.227	42.925	28.953	21.769
82.0	47.130	56.241	39.640	26.850	20.149
82.5	43.407	52.167	36.487	24.704	18.528

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L20-930-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	39.596	48.006	33.420	22.514	17.039
83.5	35.961	43.933	30.398	20.455	15.681
84.0	32.282	39.859	27.463	18.484	14.367
84.5	28.646	35.610	24.485	16.513	13.140
85.0	25.011	31.362	21.463	14.673	12.002
85.5	21.594	27.069	18.528	12.965	11.126
86.0	18.221	22.821	15.681	11.476	10.381
86.5	14.980	18.616	12.878	10.074	9.505
87.0	12.045	14.630	10.250	8.585	8.322
87.5	9.373	10.950	7.972	6.877	6.614
88.0	7.052	7.753	5.826	5.519	5.738
88.5	4.906	5.212	4.249	4.424	4.731
89.0	3.022	3.373	2.978	2.935	3.022
89.5	2.497	2.584	2.540	2.935	2.891
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-L20-930-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-L20-930-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-L20-930-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-L20-930-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	201.85	N.A.	12.00
0-30	434.24	N.A.	25.80
0-40	722.58	N.A.	42.90
0-60	1323.19	N.A.	78.60
0-80	1657.74	N.A.	98.50
0-90	1682.62	N.A.	100.00
10-90	1630.88	N.A.	96.90
20-40	520.73	N.A.	30.90
20-50	829.48	N.A.	49.30
40-70	828.12	N.A.	49.20
60-80	334.55	N.A.	19.90
70-80	107.04	N.A.	6.40
80-90	24.89	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	1682.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	51.75
10-20	150.10
20-30	232.40
30-40	288.34
40-50	308.75
50-60	291.86
60-70	227.51
70-80	107.04
80-90	24.89
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-L20-930-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-L20-930-DIM-UNV_.IES

UGR TABLE - CORRECTED

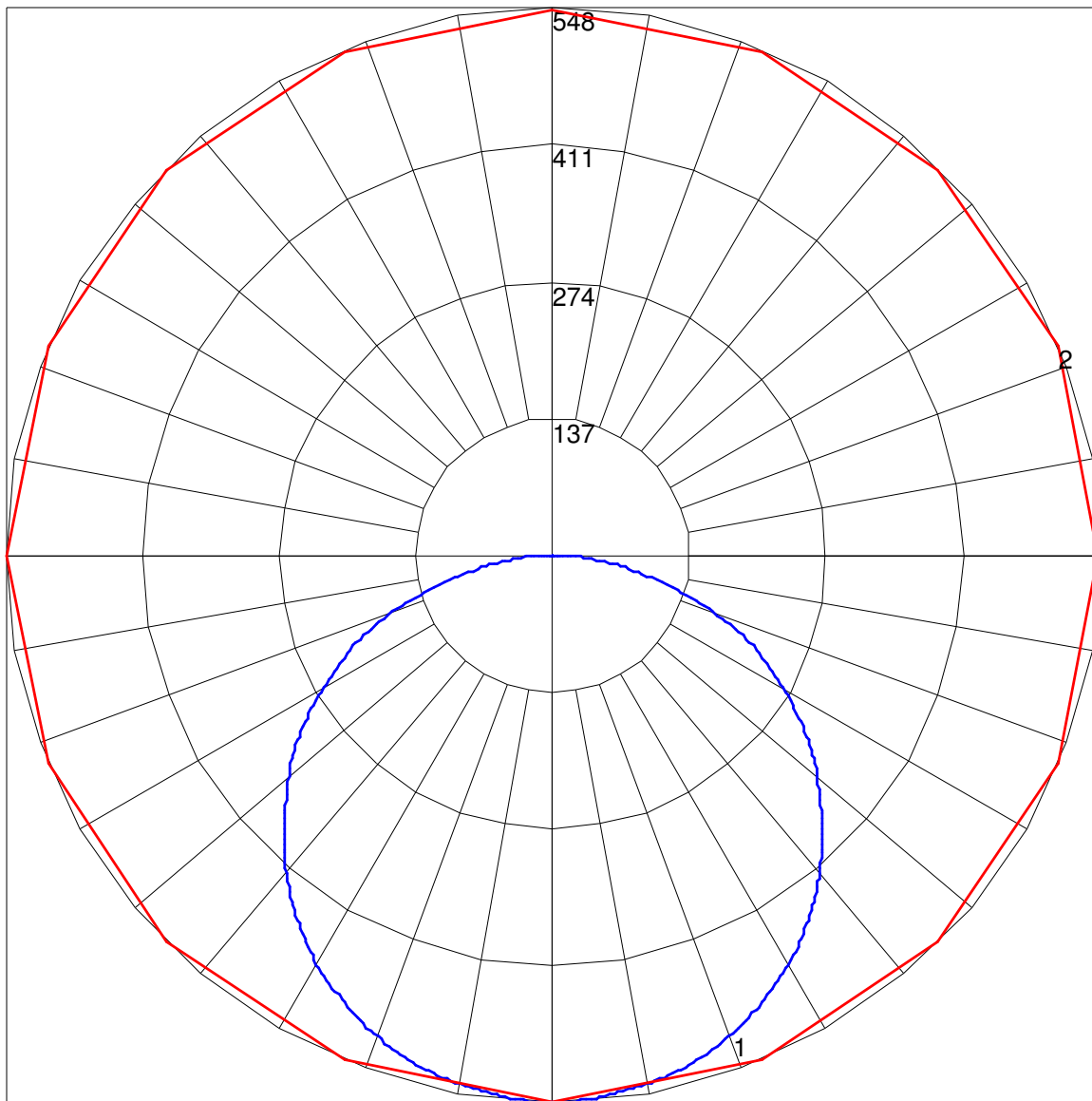
Reflectances

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	13.7	15.4	14.1	15.7	16.0	14.7	16.4	15.1	16.7	17.0
	3H	15.6	17.1	16.0	17.4	17.8	16.1	17.7	16.5	18.0	18.3
	4H	16.3	17.7	16.7	18.0	18.4	16.4	17.8	16.8	18.1	18.5
	6H	16.7	18.0	17.1	18.4	18.8	16.4	17.7	16.8	18.1	18.5
	8H	16.8	18.1	17.3	18.5	18.9	16.4	17.7	16.8	18.1	18.5
	12H	16.9	18.1	17.3	18.5	18.9	16.4	17.6	16.8	18.0	18.4
4H	2H	14.6	16.0	15.0	16.4	16.7	15.4	16.8	15.8	17.1	17.5
	3H	16.7	17.9	17.1	18.3	18.7	17.0	18.2	17.4	18.6	19.0
	4H	17.5	18.5	17.9	18.9	19.4	17.2	18.3	17.7	18.7	19.2
	6H	18.0	19.0	18.5	19.4	19.9	17.4	18.3	17.8	18.7	19.2
	8H	18.2	19.1	18.7	19.5	20.0	17.4	18.3	17.8	18.7	19.2
	12H	18.3	19.1	18.8	19.6	20.1	17.4	18.2	17.9	18.7	19.1
8H	4H	17.7	18.6	18.2	19.0	19.5	17.5	18.4	18.0	18.8	19.3
	6H	18.4	19.1	18.9	19.6	20.1	17.7	18.4	18.2	18.9	19.4
	8H	18.7	19.3	19.2	19.8	20.3	17.7	18.4	18.3	18.9	19.4
	12H	18.9	19.5	19.4	19.9	20.5	17.8	18.4	18.3	18.8	19.4
12H	4H	17.7	18.5	18.2	19.0	19.4	17.5	18.3	18.0	18.8	19.3
	6H	18.4	19.1	19.0	19.5	20.1	17.8	18.4	18.3	18.9	19.4
	8H	18.7	19.3	19.2	19.8	20.4	17.8	18.4	18.3	18.9	19.4

Maximum UGR = 20.5

POLAR GRAPH



Maximum Candela = 547.517 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.)