



IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L30-830-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-L30-830-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	2952
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
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	2684	2919	3099
55	2608	2974	3164
65	2476	2962	2897
75	2075	2167	1197
85	1473	1264	707

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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	958.887	958.887	958.887	958.887	958.887
0.5	958.119	960.424	958.887	958.119	958.119
1.0	957.350	960.424	958.887	958.119	958.119
1.5	957.350	959.655	958.887	957.350	958.119
2.0	957.350	959.655	958.119	957.350	957.350
2.5	957.350	959.655	957.350	956.582	956.582
3.0	956.582	958.887	956.582	955.814	956.582
3.5	955.814	958.119	955.814	955.814	955.814
4.0	955.045	957.350	955.814	955.045	955.045
4.5	954.277	956.582	954.277	954.277	954.277
5.0	953.509	955.045	953.509	953.509	954.277
5.5	952.740	954.277	952.740	952.740	953.509
6.0	951.204	953.509	951.972	951.972	952.740
6.5	950.435	951.972	951.204	951.972	951.972
7.0	949.667	951.204	950.435	951.204	951.972
7.5	948.130	949.667	948.899	950.435	951.204
8.0	947.362	948.899	948.130	949.667	950.435
8.5	945.825	947.362	947.362	948.899	949.667
9.0	944.289	945.825	945.825	948.130	949.667
9.5	942.752	944.289	945.057	947.362	948.899
10.0	941.984	943.520	944.289	946.594	948.130
10.5	940.447	941.984	942.752	945.825	948.130
11.0	938.910	940.447	941.984	945.057	947.362
11.5	937.374	938.910	940.447	944.289	946.594
12.0	935.837	937.374	939.679	943.520	945.825
12.5	934.300	935.837	938.142	942.752	945.825
13.0	931.995	934.300	937.374	941.984	945.057
13.5	930.459	932.764	935.837	941.215	944.289
14.0	928.153	930.459	934.300	940.447	943.520
14.5	926.617	928.922	932.764	938.910	942.752
15.0	924.312	926.617	931.227	938.142	941.984
15.5	922.007	924.312	929.690	936.605	940.447
16.0	919.702	922.007	928.153	935.069	939.679
16.5	917.397	919.702	925.848	934.300	938.142
17.0	914.323	917.397	924.312	931.995	937.374
17.5	912.018	915.092	922.007	930.459	935.069
18.0	908.945	912.018	919.702	928.922	933.532
18.5	905.872	908.945	917.397	926.617	931.995
19.0	902.798	906.640	915.092	925.080	930.459
19.5	900.493	903.567	912.787	922.775	928.153
20.0	896.652	900.493	910.482	921.238	926.617
20.5	893.578	897.420	907.408	918.933	925.080
21.0	890.505	894.347	905.103	916.628	922.775
21.5	887.432	891.273	902.030	914.323	920.470
22.0	883.590	888.200	898.957	912.018	918.165
22.5	879.748	884.358	896.652	909.713	915.860
23.0	876.675	881.285	893.578	907.408	914.323
23.5	872.833	878.211	891.273	905.103	912.018
24.0	869.760	875.138	888.200	902.798	909.713
24.5	865.150	871.296	885.895	900.493	908.177
25.0	862.076	867.455	882.821	898.188	905.872
25.5	858.235	864.381	880.516	895.883	904.335
26.0	854.393	860.540	877.443	893.578	902.030
26.5	850.551	857.466	874.370	891.273	900.493

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CANDELA TABULATION - (Cont.)

27.0	845.941	853.625	871.296	888.968	898.188
27.5	842.100	849.783	868.991	886.663	895.883
28.0	838.258	845.941	865.918	883.590	892.810
28.5	833.648	842.100	862.076	880.516	890.505
29.0	829.038	837.489	859.003	877.443	887.432
29.5	825.196	833.648	855.161	874.370	884.358
30.0	820.586	829.806	851.320	871.296	881.285
30.5	815.976	825.196	847.478	867.455	878.211
31.0	811.366	821.354	843.636	864.381	874.370
31.5	805.988	816.744	839.795	860.540	871.296
32.0	801.378	812.134	835.184	856.698	867.455
32.5	796.768	807.524	831.343	852.856	863.613
33.0	791.389	802.146	826.733	849.015	859.771
33.5	786.011	797.536	822.891	845.173	855.930
34.0	780.632	792.157	818.281	840.563	852.088
34.5	775.254	787.547	813.671	836.721	848.246
35.0	769.876	782.169	809.061	832.879	844.405
35.5	764.574	777.559	804.451	829.038	840.563
36.0	759.196	772.181	799.841	824.428	836.721
36.5	753.510	767.033	795.999	820.586	832.879
37.0	747.978	761.808	790.621	815.976	829.038
37.5	742.139	756.507	786.011	812.134	824.428
38.0	736.146	751.205	781.401	807.524	819.818
38.5	730.229	745.596	776.022	802.914	815.976
39.0	724.236	740.141	771.412	798.304	811.366
39.5	718.243	734.609	766.264	793.694	805.988
40.0	712.250	728.770	760.963	788.316	801.378
40.5	706.104	723.084	755.585	782.937	796.768
41.0	699.573	717.244	750.514	778.327	791.389
41.5	693.503	711.328	745.058	772.949	786.779
42.0	687.126	705.335	739.526	767.494	781.401
42.5	680.902	699.342	733.841	762.192	776.022
43.0	674.448	693.426	728.309	756.891	770.644
43.5	667.994	687.126	722.776	751.512	765.650
44.0	661.694	680.825	717.014	745.980	760.118
44.5	655.239	674.678	711.251	740.525	754.586
45.0	648.478	668.455	705.412	734.916	748.900
45.5	642.024	662.078	699.573	729.231	743.137
46.0	635.340	655.854	693.580	723.545	737.375
46.5	628.732	649.400	687.587	717.705	731.843
47.0	621.817	642.946	681.517	711.789	726.080
47.5	614.671	636.492	675.524	705.643	719.934
48.0	607.756	630.038	669.300	699.496	714.017
48.5	602.992	623.430	663.077	693.426	707.563
49.0	600.534	617.130	656.622	687.202	701.647
49.5	593.465	611.828	650.322	681.133	695.270
50.0	586.243	606.219	643.868	674.678	688.816
50.5	579.097	601.225	637.414	668.071	682.439
51.0	571.644	594.848	630.960	661.463	675.908
51.5	564.345	588.087	624.429	654.778	668.916
52.0	556.892	582.631	618.590	648.094	662.078
52.5	549.516	575.870	613.211	641.333	655.086
53.0	541.909	568.878	606.757	634.110	648.094
53.5	534.149	561.733	601.533	627.041	640.564
54.0	526.389	554.587	595.770	619.742	632.958
54.5	518.629	547.442	588.701	614.057	625.505

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CANDELA TABULATION - (Cont.)

55.0	511.099	540.219	582.862	608.063	620.126
55.5	503.416	533.074	576.024	600.534	613.442
56.0	495.732	525.698	568.725	593.158	605.144
56.5	487.972	518.321	561.195	587.779	596.692
57.0	480.135	510.715	553.588	579.942	588.087
57.5	472.298	503.262	545.982	571.721	582.631
58.0	464.615	495.886	538.452	563.500	573.642
58.5	457.008	488.587	530.845	555.202	564.652
59.0	449.171	481.288	523.162	546.520	555.355
59.5	441.411	473.681	515.325	537.760	545.982
60.0	433.497	466.305	507.565	528.771	536.147
60.5	425.737	458.852	499.805	520.012	526.082
61.0	418.207	451.553	492.044	510.945	515.940
61.5	410.524	444.484	484.515	501.879	505.644
62.0	403.071	437.492	476.754	492.659	495.194
62.5	395.464	430.270	468.917	482.901	484.054
63.0	388.011	423.047	461.080	472.989	472.375
63.5	380.481	415.979	453.013	462.617	459.774
64.0	372.875	408.833	444.868	451.706	446.635
64.5	365.422	401.457	436.417	440.258	432.959
65.0	357.585	394.081	427.734	428.118	418.437
65.5	349.517	386.398	418.822	415.364	403.071
66.0	341.373	378.407	409.217	401.764	386.705
66.5	333.152	370.263	399.152	387.397	369.187
67.0	324.393	361.811	388.933	372.491	351.899
67.5	315.710	353.205	378.407	357.354	333.766
68.0	306.875	344.446	367.650	341.373	315.557
68.5	298.116	335.534	356.432	325.161	296.886
69.0	288.665	326.467	344.831	308.488	278.523
69.5	279.368	317.401	333.152	291.585	259.929
70.0	270.302	308.258	321.473	274.681	242.257
70.5	261.158	299.038	309.180	258.546	224.893
71.0	252.323	289.971	296.809	242.104	208.143
71.5	243.563	280.905	284.055	226.276	192.085
72.0	234.804	271.838	271.377	211.063	177.025
72.5	225.968	262.618	258.239	196.464	162.657
73.0	217.363	253.475	244.562	182.404	149.672
73.5	208.835	244.332	231.040	169.265	137.302
74.0	200.460	235.265	217.824	156.664	125.931
74.5	191.931	225.815	204.686	145.062	115.481
75.0	183.556	216.518	191.701	134.459	105.877
75.5	175.489	206.991	179.100	124.471	97.272
76.0	167.421	197.617	167.114	114.944	88.974
76.5	159.430	188.243	155.742	106.415	81.828
77.0	151.670	178.946	144.986	98.655	75.374
77.5	143.910	169.803	134.843	91.586	69.458
78.0	136.227	160.583	125.547	85.055	64.156
78.5	129.004	151.824	116.864	78.985	59.239
79.0	122.089	143.295	108.720	73.300	54.783
79.5	115.405	135.074	101.190	68.229	50.787
80.0	108.950	127.391	94.122	63.465	47.176
80.5	102.266	120.091	87.514	58.932	43.949
81.0	95.581	112.869	81.290	54.783	40.876
81.5	89.204	105.647	75.297	50.787	38.186
82.0	82.673	98.655	69.535	47.099	35.344
82.5	76.142	91.509	64.003	43.334	32.501

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CANDELA TABULATION - (Cont.)

83.0	69.458	84.210	58.624	39.493	29.888
83.5	63.081	77.064	53.323	35.881	27.507
84.0	56.627	69.919	48.175	32.424	25.202
84.5	50.249	62.466	42.950	28.966	23.050
85.0	43.872	55.013	37.649	25.739	21.052
85.5	37.879	47.483	32.501	22.743	19.516
86.0	31.963	40.030	27.507	20.130	18.210
86.5	26.277	32.654	22.589	17.672	16.673
87.0	21.129	25.663	17.979	15.059	14.598
87.5	16.442	19.208	13.984	12.063	11.602
88.0	12.370	13.600	10.219	9.681	10.065
88.5	8.605	9.143	7.453	7.760	8.298
89.0	5.302	5.916	5.225	5.148	5.302
89.5	4.380	4.533	4.456	5.148	5.071
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-L30-830-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-L30-830-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	354.07	N.A.	12.00
0-30	761.73	N.A.	25.80
0-40	1267.51	N.A.	42.90
0-60	2321.07	N.A.	78.60
0-80	2907.91	N.A.	98.50
0-90	2951.57	N.A.	100.00
10-90	2860.79	N.A.	96.90
20-40	913.44	N.A.	30.90
20-50	1455.03	N.A.	49.30
40-70	1452.64	N.A.	49.20
60-80	586.84	N.A.	19.90
70-80	187.77	N.A.	6.40
80-90	43.65	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	2951.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	90.77
10-20	263.29
20-30	407.66
30-40	505.78
40-50	541.59
50-60	511.97
60-70	399.08
70-80	187.77
80-90	43.65
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-L30-830-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	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-L30-830-DIM-UNV_.IES

UGR TABLE - CORRECTED

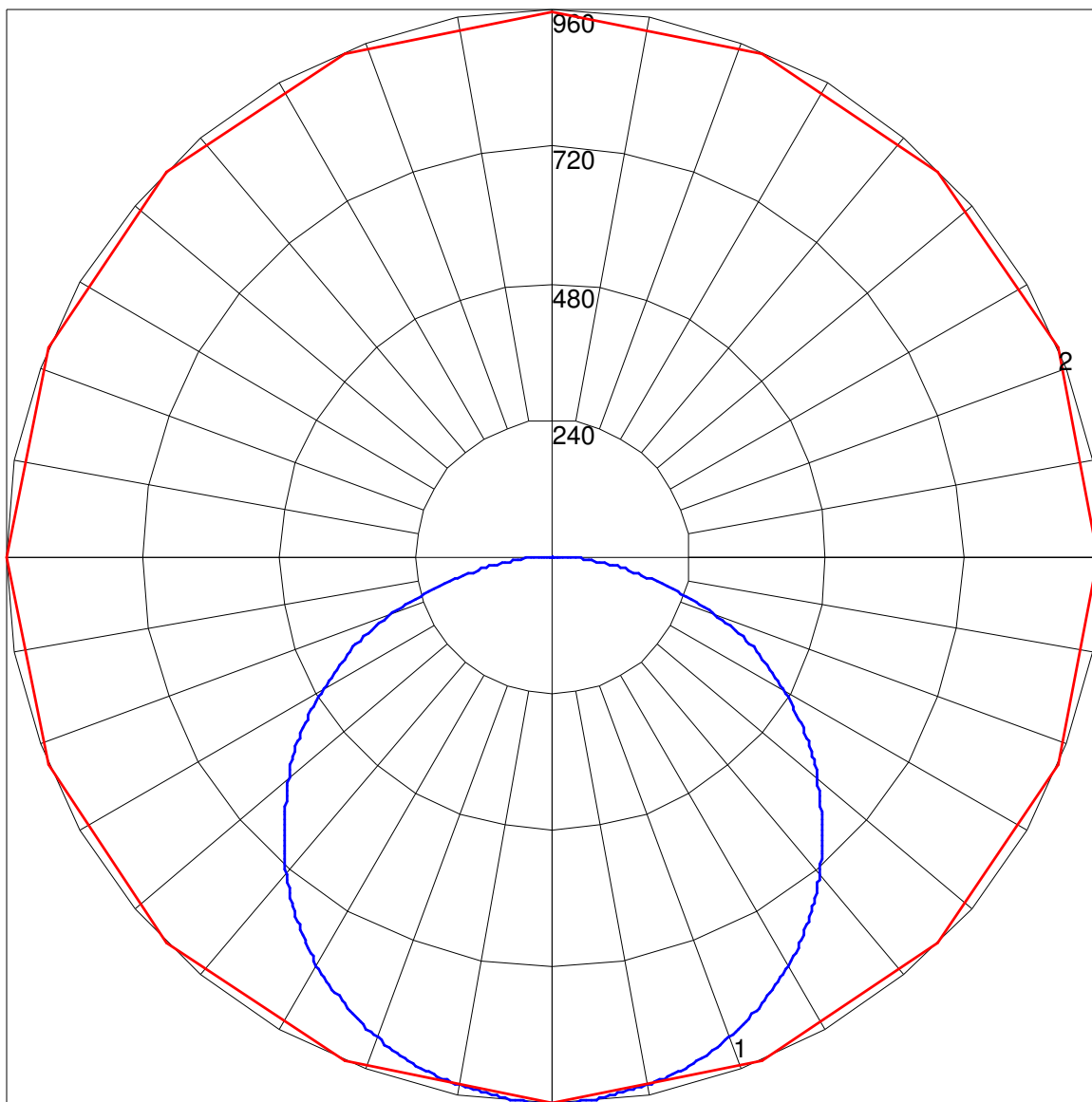
Reflectances

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	15.7	17.4	16.1	17.7	18.0	16.7	18.4	17.1	18.7	19.0
	3H	17.6	19.1	18.0	19.4	19.8	18.1	19.7	18.5	20.0	20.3
	4H	18.3	19.7	18.7	20.0	20.4	18.4	19.8	18.8	20.1	20.5
	6H	18.7	20.0	19.1	20.4	20.8	18.4	19.7	18.8	20.1	20.5
	8H	18.8	20.1	19.3	20.5	20.9	18.4	19.7	18.8	20.1	20.5
	12H	18.9	20.1	19.3	20.5	20.9	18.4	19.6	18.8	20.0	20.4
4H	2H	16.6	18.0	17.0	18.4	18.7	17.4	18.8	17.8	19.1	19.5
	3H	18.7	19.9	19.1	20.3	20.7	19.0	20.2	19.4	20.6	21.0
	4H	19.5	20.5	19.9	20.9	21.4	19.2	20.3	19.7	20.7	21.2
	6H	20.0	21.0	20.5	21.4	21.9	19.4	20.3	19.8	20.7	21.2
	8H	20.2	21.1	20.7	21.5	22.0	19.4	20.3	19.8	20.7	21.2
	12H	20.3	21.1	20.8	21.6	22.1	19.4	20.2	19.9	20.7	21.1
8H	4H	19.7	20.6	20.2	21.0	21.5	19.5	20.4	20.0	20.8	21.3
	6H	20.4	21.1	20.9	21.6	22.1	19.7	20.4	20.2	20.9	21.4
	8H	20.7	21.3	21.2	21.8	22.3	19.7	20.4	20.3	20.9	21.4
	12H	20.9	21.5	21.4	21.9	22.5	19.8	20.4	20.3	20.8	21.4
12H	4H	19.7	20.5	20.2	21.0	21.4	19.5	20.3	20.0	20.8	21.3
	6H	20.4	21.1	21.0	21.5	22.1	19.8	20.4	20.3	20.9	21.4
	8H	20.7	21.3	21.2	21.8	22.4	19.8	20.4	20.3	20.9	21.4

Maximum UGR = 22.5

POLAR GRAPH



Maximum Candela = 960.424 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.)