



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-14-L60-840-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GENERATED FROM 15729805.01  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 2025-04-25  
 [TESTDATE] 3/18/2025  
 [MANUFAC] WILLIAMS INDOOR  
 [MORE] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] BAR-14-L60-840-DIM-UNV  
 [LUMINAIRE] Recessed 1 x 4 Indirect LED luminaire  
 [MORE] with centered LED rail & white painted housing  
 [LAMP] 112 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	6182
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	51.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	0.92 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6663	6365	5926
55	6591	5835	5045
65	6573	4921	3991
75	6277	3457	2802
85	4062	2046	2150

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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	2218.148	2218.148	2218.148	2218.148	2218.148
0.5	2214.236	2219.126	2216.192	2220.104	2222.060
1.0	2214.236	2218.148	2215.214	2219.126	2221.082
1.5	2213.258	2218.148	2214.236	2218.148	2220.104
2.0	2213.258	2217.170	2213.258	2217.170	2219.126
2.5	2212.280	2216.192	2212.280	2216.192	2217.170
3.0	2212.280	2215.214	2210.324	2214.236	2215.214
3.5	2211.302	2214.236	2209.346	2212.280	2214.236
4.0	2210.324	2213.258	2207.390	2211.302	2212.280
4.5	2209.346	2212.280	2205.434	2209.346	2210.324
5.0	2208.368	2210.324	2203.477	2207.390	2207.390
5.5	2207.390	2208.368	2201.521	2205.434	2205.434
6.0	2206.412	2206.412	2199.565	2202.499	2203.477
6.5	2204.455	2204.455	2197.609	2200.543	2201.521
7.0	2202.499	2202.499	2194.675	2198.587	2198.587
7.5	2200.543	2199.565	2192.719	2195.653	2196.631
8.0	2198.587	2197.609	2189.785	2193.697	2193.697
8.5	2196.631	2194.675	2186.851	2190.763	2191.741
9.0	2193.697	2191.741	2184.895	2187.829	2188.807
9.5	2191.741	2188.807	2181.961	2184.895	2185.873
10.0	2188.807	2185.873	2178.049	2181.961	2182.939
10.5	2185.873	2182.939	2175.115	2178.049	2180.005
11.0	2181.961	2179.027	2172.181	2175.115	2177.071
11.5	2179.027	2176.093	2168.269	2172.181	2173.159
12.0	2176.093	2172.181	2164.357	2168.269	2169.247
12.5	2172.181	2168.269	2160.445	2164.357	2165.335
13.0	2168.269	2164.357	2156.533	2160.445	2161.423
13.5	2164.357	2160.445	2152.620	2156.533	2157.511
14.0	2159.467	2155.555	2147.730	2152.620	2153.598
14.5	2155.555	2150.664	2143.818	2147.730	2149.686
15.0	2150.664	2146.752	2138.928	2142.840	2144.796
15.5	2145.774	2141.862	2134.038	2137.950	2139.906
16.0	2140.884	2135.994	2128.170	2133.060	2135.016
16.5	2135.994	2131.104	2123.280	2127.192	2130.126
17.0	2131.104	2126.214	2117.412	2121.324	2124.258
17.5	2126.214	2120.346	2112.522	2115.456	2118.390
18.0	2121.324	2115.456	2106.654	2109.588	2111.544
18.5	2115.456	2109.588	2100.785	2103.720	2105.676
19.0	2110.566	2103.720	2094.917	2096.873	2097.851
19.5	2104.698	2097.851	2088.071	2090.027	2091.005
20.0	2098.829	2091.983	2082.203	2083.181	2083.181
20.5	2091.983	2086.115	2075.357	2076.335	2075.357
21.0	2086.115	2079.269	2068.511	2068.511	2067.533
21.5	2080.247	2072.423	2061.665	2060.687	2059.709
22.0	2073.401	2065.577	2054.819	2053.841	2051.884
22.5	2066.555	2058.731	2046.994	2045.038	2044.060
23.0	2059.709	2051.884	2040.148	2037.214	2036.236
23.5	2052.863	2044.060	2032.324	2029.390	2027.434
24.0	2045.038	2036.236	2024.500	2020.588	2018.632
24.5	2037.214	2028.412	2016.676	2011.786	2009.830
25.0	2029.390	2019.610	2007.874	2003.962	2002.006
25.5	2021.566	2011.786	2000.049	1995.159	1993.203
26.0	2013.742	2002.984	1991.247	1986.357	1984.401
26.5	2004.940	1994.181	1982.445	1977.555	1975.599

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**CANDELA TABULATION - (Cont.)**

27.0	1996.137	1985.379	1973.643	1968.753	1965.819
27.5	1987.335	1975.599	1964.841	1958.973	1956.039
28.0	1977.555	1966.797	1956.039	1949.192	1946.258
28.5	1968.753	1957.017	1946.258	1938.434	1935.500
29.0	1958.973	1947.236	1936.478	1928.654	1924.742
29.5	1949.192	1938.434	1926.698	1916.918	1913.984
30.0	1939.412	1928.654	1916.918	1906.160	1901.270
30.5	1929.632	1917.896	1906.160	1894.423	1888.555
31.0	1919.852	1908.116	1895.401	1882.687	1875.841
31.5	1910.072	1897.357	1884.643	1869.973	1863.127
32.0	1899.313	1887.577	1873.885	1857.259	1849.434
32.5	1888.555	1876.819	1862.149	1844.544	1835.742
33.0	1878.775	1866.061	1850.413	1831.830	1822.050
33.5	1867.039	1855.303	1838.676	1818.138	1807.380
34.0	1856.281	1844.544	1825.962	1804.446	1792.709
34.5	1845.522	1833.786	1814.226	1789.775	1778.039
35.0	1834.764	1822.050	1801.512	1776.083	1762.391
35.5	1824.006	1810.314	1788.797	1761.413	1747.720
36.0	1812.270	1798.577	1776.083	1746.742	1732.072
36.5	1800.534	1786.841	1762.391	1732.072	1715.446
37.0	1788.797	1774.127	1749.677	1716.424	1699.798
37.5	1777.061	1762.391	1735.984	1700.776	1683.171
38.0	1764.347	1749.677	1722.292	1685.127	1666.545
38.5	1751.633	1736.962	1707.622	1669.479	1649.919
39.0	1738.918	1724.248	1693.929	1652.853	1632.314
39.5	1725.226	1711.534	1679.259	1635.248	1615.688
40.0	1712.512	1697.841	1664.589	1617.644	1597.106
40.5	1699.798	1684.149	1649.919	1600.040	1577.545
41.0	1686.105	1670.457	1634.270	1582.435	1558.963
41.5	1672.413	1656.765	1619.600	1563.853	1540.380
42.0	1658.721	1643.072	1602.974	1546.249	1521.798
42.5	1645.028	1629.380	1587.325	1526.688	1502.238
43.0	1630.358	1614.710	1570.699	1508.106	1480.721
43.5	1615.688	1601.018	1554.073	1488.545	1461.161
44.0	1601.996	1585.369	1537.446	1468.985	1440.622
44.5	1587.325	1570.699	1519.842	1449.425	1419.106
45.0	1573.633	1556.029	1503.216	1429.864	1399.546
45.5	1558.963	1541.358	1485.611	1410.304	1379.007
46.0	1544.292	1525.710	1468.007	1389.765	1358.469
46.5	1529.622	1511.040	1449.425	1369.227	1336.952
47.0	1514.952	1495.392	1431.820	1348.689	1315.436
47.5	1500.282	1479.743	1414.216	1328.150	1294.898
48.0	1485.611	1464.095	1395.634	1307.612	1273.381
48.5	1469.963	1449.425	1377.051	1287.073	1251.865
49.0	1454.315	1432.798	1358.469	1266.535	1230.348
49.5	1438.666	1417.150	1338.908	1245.019	1207.854
50.0	1423.018	1401.502	1319.348	1223.502	1186.337
50.5	1408.348	1384.875	1300.766	1202.964	1164.821
51.0	1391.721	1369.227	1280.227	1181.447	1143.305
51.5	1376.073	1352.601	1260.667	1160.909	1121.788
52.0	1360.425	1335.974	1241.106	1138.414	1100.272
52.5	1343.799	1319.348	1221.546	1116.898	1077.777
53.0	1327.172	1302.722	1201.008	1094.404	1056.261
53.5	1311.524	1285.117	1179.491	1071.909	1033.766
54.0	1295.876	1268.491	1159.931	1050.393	1010.294
54.5	1279.249	1250.887	1139.392	1027.898	987.799

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**CANDELA TABULATION - (Cont.)**

55.0	1262.623	1233.282	1117.876	1006.382	966.576
55.5	1245.997	1215.678	1096.360	983.887	944.082
56.0	1229.370	1198.074	1074.843	962.175	921.490
56.5	1212.744	1179.491	1053.327	939.974	898.702
57.0	1197.096	1161.887	1031.810	917.186	876.892
57.5	1180.469	1144.283	1010.294	894.888	855.376
58.0	1163.843	1125.700	987.799	873.078	833.664
58.5	1147.217	1107.118	965.501	851.072	812.147
59.0	1131.568	1088.535	942.908	829.458	791.218
59.5	1114.942	1069.953	921.001	807.746	773.124
60.0	1098.316	1050.393	899.093	788.773	752.488
60.5	1081.689	1031.810	877.381	768.723	734.590
61.0	1066.041	1013.228	855.669	748.869	714.052
61.5	1048.437	993.668	834.348	731.754	694.296
62.0	1031.810	974.890	813.516	711.313	673.953
62.5	1015.184	955.720	793.565	691.362	654.295
63.0	998.558	935.867	774.396	671.606	635.028
63.5	980.953	916.306	755.031	652.143	616.348
64.0	963.545	896.159	736.840	632.876	598.548
64.5	945.842	876.501	715.715	613.707	581.041
65.0	927.847	856.060	694.589	595.223	563.339
65.5	909.362	835.033	673.464	576.249	546.028
66.0	891.465	813.614	651.948	557.667	528.522
66.5	873.078	793.467	630.529	538.986	510.917
67.0	854.887	773.515	609.502	520.600	493.313
67.5	836.304	754.737	588.474	502.213	475.904
68.0	816.940	734.297	567.349	484.217	458.691
68.5	797.184	712.585	546.322	465.635	441.380
69.0	779.677	689.895	525.588	447.150	424.656
69.5	764.518	666.716	504.365	429.253	407.736
70.0	746.424	643.732	483.435	411.942	391.403
70.5	726.179	620.455	462.994	395.022	374.973
71.0	705.934	597.276	443.141	378.298	359.618
71.5	685.005	573.902	423.776	362.356	344.458
72.0	664.858	550.918	404.215	346.512	329.299
72.5	644.710	527.935	385.144	330.962	313.944
73.0	624.368	505.147	367.051	315.802	298.883
73.5	603.927	482.653	349.446	300.448	284.115
74.0	583.486	460.549	332.233	285.288	269.738
74.5	563.144	438.055	315.411	270.520	255.654
75.0	542.605	416.245	298.883	255.654	242.255
75.5	521.578	394.533	283.234	241.669	229.639
76.0	500.941	373.114	267.879	228.074	217.414
76.5	480.207	352.087	252.622	215.164	205.188
77.0	459.767	331.255	237.854	202.841	193.746
77.5	438.837	311.206	223.282	191.007	182.498
78.0	417.419	291.743	208.905	179.467	171.740
78.5	396.489	272.476	194.919	168.122	161.667
79.0	374.973	253.992	181.520	157.461	151.593
79.5	353.554	236.094	168.611	146.996	141.911
80.0	331.451	218.685	156.287	137.021	132.619
80.5	309.641	202.059	144.551	127.632	123.915
81.0	287.635	185.921	133.402	118.536	116.189
81.5	265.141	170.175	122.546	110.027	109.049
82.0	242.744	155.114	111.885	102.399	101.812
82.5	220.250	140.639	102.007	94.966	93.890

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**CANDELA TABULATION - (Cont.)**

83.0	198.440	126.751	92.325	87.142	85.577
83.5	176.141	112.472	83.816	78.633	77.948
84.0	155.212	99.269	75.796	71.004	71.884
84.5	135.553	87.044	67.777	65.038	66.897
85.0	118.243	75.503	59.561	60.050	62.593
85.5	102.007	64.549	52.226	55.551	57.899
86.0	86.359	54.573	46.065	50.368	52.324
86.5	71.200	45.478	40.881	44.402	45.478
87.0	57.116	37.165	35.600	37.360	37.849
87.5	44.206	29.732	29.438	29.927	30.025
88.0	32.275	22.983	22.788	22.886	23.277
88.5	21.908	17.018	16.529	16.920	17.311
89.0	13.301	11.345	10.660	11.345	11.932
89.5	5.673	6.064	5.673	6.455	6.651
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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : BAR-14-L60-840-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-14-L60-840-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-14-L60-840-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	815.34	N.A.	13.20
0-30	1742.75	N.A.	28.20
0-40	2867.56	N.A.	46.40
0-60	5016.56	N.A.	81.20
0-80	6095.54	N.A.	98.60
0-90	6181.57	N.A.	100.00
10-90	5971.64	N.A.	96.60
20-40	2052.23	N.A.	33.20
20-50	3203.16	N.A.	51.80
40-70	2863.13	N.A.	46.30
60-80	1078.98	N.A.	17.50
70-80	364.84	N.A.	5.90
80-90	86.04	N.A.	1.40
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	6181.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	209.93
10-20	605.41
20-30	927.42
30-40	1124.81
40-50	1150.94
50-60	998.06
60-70	714.14
70-80	364.84
80-90	86.04
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-14-L60-840-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	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	45	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BAR-14-L60-840-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

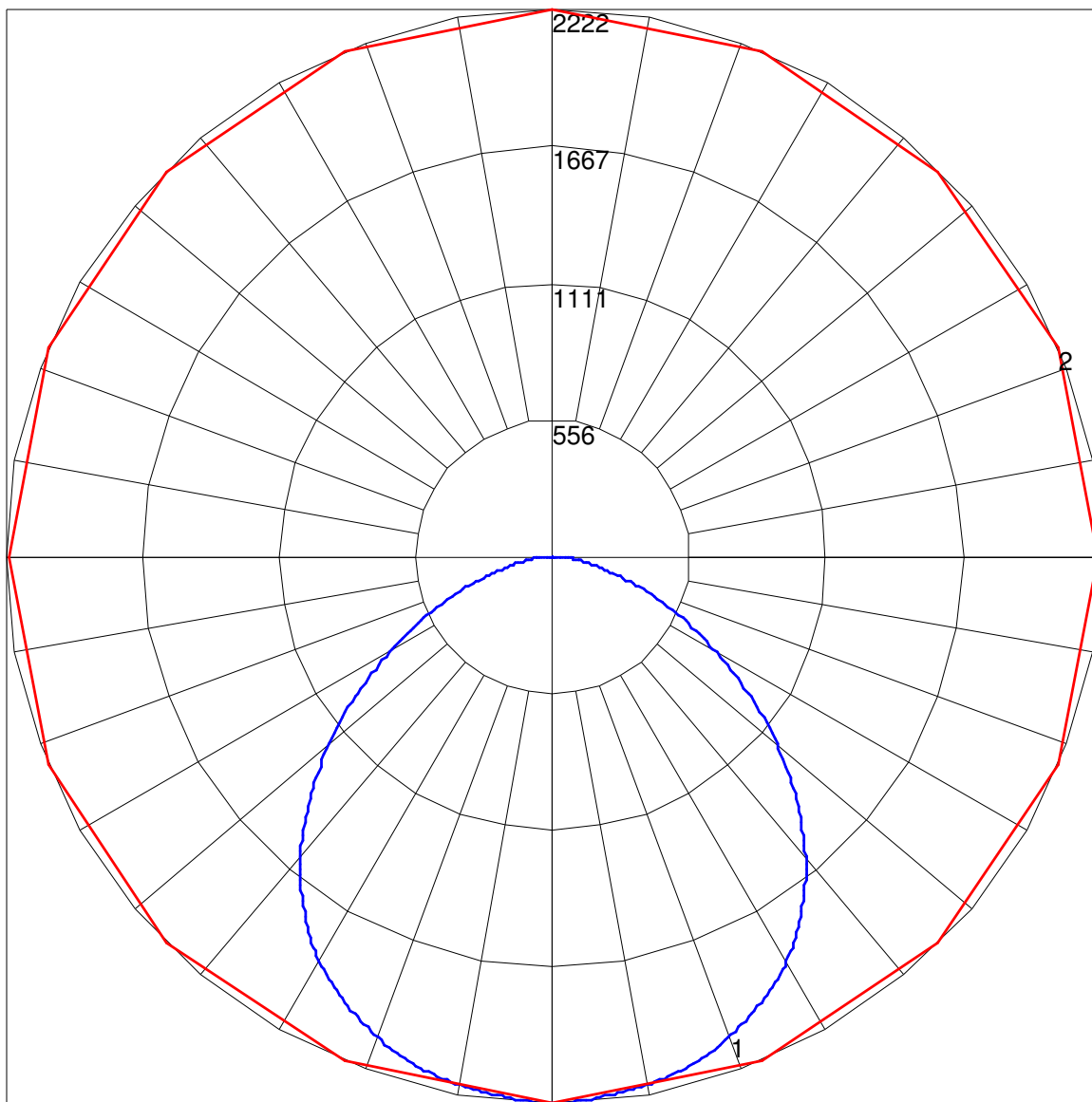
Reflectances

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	19.0	20.7	19.4	21.0	21.3	17.2	18.8	17.6	19.1	19.5
	3H	21.0	22.5	21.4	22.8	23.2	18.5	20.0	18.9	20.3	20.7
	4H	21.8	23.1	22.2	23.5	23.9	18.9	20.3	19.3	20.6	21.0
	6H	22.3	23.6	22.7	24.0	24.4	19.1	20.4	19.6	20.8	21.2
	8H	22.5	23.7	22.9	24.1	24.5	19.2	20.4	19.7	20.8	21.2
	12H	22.6	23.8	23.0	24.1	24.6	19.3	20.4	19.7	20.8	21.2
4H	2H	19.4	20.8	19.8	21.1	21.5	17.9	19.3	18.3	19.7	20.0
	3H	21.6	22.7	22.0	23.1	23.5	19.4	20.6	19.8	21.0	21.4
	4H	22.4	23.5	22.9	23.9	24.3	19.9	20.9	20.3	21.3	21.8
	6H	23.1	24.0	23.6	24.5	24.9	20.2	21.1	20.7	21.6	22.0
	8H	23.3	24.2	23.8	24.6	25.1	20.3	21.1	20.8	21.6	22.1
	12H	23.5	24.2	24.0	24.7	25.2	20.4	21.1	20.9	21.6	22.1
8H	4H	22.5	23.4	23.0	23.8	24.3	20.2	21.0	20.7	21.5	22.0
	6H	23.3	24.0	23.8	24.5	24.9	20.6	21.3	21.1	21.8	22.3
	8H	23.5	24.2	24.0	24.7	25.2	20.8	21.4	21.3	21.9	22.4
	12H	23.7	24.3	24.2	24.8	25.3	20.9	21.4	21.4	21.9	22.5
12H	4H	22.5	23.3	23.0	23.8	24.2	20.3	21.0	20.7	21.5	21.9
	6H	23.3	23.9	23.8	24.4	24.9	20.7	21.3	21.2	21.8	22.3
	8H	23.5	24.1	24.1	24.6	25.2	20.8	21.4	21.3	21.9	22.4

Maximum UGR = 25.3

POLAR GRAPH



Maximum Candela = 2222.06 Located At Horizontal Angle = 90, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)