



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : BAR-14-L60-827-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-L60-827-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	5821
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
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	6275	5994	5581
55	6207	5495	4751
65	6190	4634	3758
75	5911	3256	2639
85	3825	1927	2025

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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	2088.935	2088.935	2088.935	2088.935	2088.935
0.5	2085.251	2089.856	2087.093	2090.777	2092.619
1.0	2085.251	2088.935	2086.172	2089.856	2091.698
1.5	2084.330	2088.935	2085.251	2088.935	2090.777
2.0	2084.330	2088.014	2084.330	2088.014	2089.856
2.5	2083.409	2087.093	2083.409	2087.093	2088.014
3.0	2083.409	2086.172	2081.567	2085.251	2086.172
3.5	2082.488	2085.251	2080.646	2083.409	2085.251
4.0	2081.567	2084.330	2078.804	2082.488	2083.409
4.5	2080.646	2083.409	2076.962	2080.646	2081.567
5.0	2079.725	2081.567	2075.119	2078.804	2078.804
5.5	2078.804	2079.725	2073.277	2076.962	2076.962
6.0	2077.883	2077.883	2071.435	2074.198	2075.119
6.5	2076.041	2076.041	2069.593	2072.356	2073.277
7.0	2074.198	2074.198	2066.830	2070.514	2070.514
7.5	2072.356	2071.435	2064.988	2067.751	2068.672
8.0	2070.514	2069.593	2062.225	2065.909	2065.909
8.5	2068.672	2066.830	2059.462	2063.146	2064.067
9.0	2065.909	2064.067	2057.620	2060.383	2061.304
9.5	2064.067	2061.304	2054.856	2057.620	2058.541
10.0	2061.304	2058.541	2051.172	2054.856	2055.778
10.5	2058.541	2055.778	2048.409	2051.172	2053.014
11.0	2054.856	2052.093	2045.646	2048.409	2050.251
11.5	2052.093	2049.330	2041.962	2045.646	2046.567
12.0	2049.330	2045.646	2038.278	2041.962	2042.883
12.5	2045.646	2041.962	2034.593	2038.278	2039.199
13.0	2041.962	2038.278	2030.909	2034.593	2035.514
13.5	2038.278	2034.593	2027.225	2030.909	2031.830
14.0	2033.672	2029.988	2022.620	2027.225	2028.146
14.5	2029.988	2025.383	2018.936	2022.620	2024.462
15.0	2025.383	2021.699	2014.330	2018.015	2019.857
15.5	2020.778	2017.094	2009.725	2013.409	2015.251
16.0	2016.172	2011.567	2004.199	2008.804	2010.646
16.5	2011.567	2006.962	1999.594	2003.278	2006.041
17.0	2006.962	2002.357	1994.067	1997.752	2000.515
17.5	2002.357	1996.830	1989.462	1992.225	1994.988
18.0	1997.752	1992.225	1983.936	1986.699	1988.541
18.5	1992.225	1986.699	1978.410	1981.173	1983.015
19.0	1987.620	1981.173	1972.883	1974.725	1975.646
19.5	1982.094	1975.646	1966.436	1968.278	1969.199
20.0	1976.567	1970.120	1960.910	1961.831	1961.831
20.5	1970.120	1964.594	1954.462	1955.383	1954.462
21.0	1964.594	1958.146	1948.015	1948.015	1947.094
21.5	1959.068	1951.699	1941.568	1940.647	1939.726
22.0	1952.620	1945.252	1935.120	1934.199	1932.357
22.5	1946.173	1938.805	1927.752	1925.910	1924.989
23.0	1939.726	1932.357	1921.305	1918.541	1917.620
23.5	1933.278	1924.989	1913.936	1911.173	1909.331
24.0	1925.910	1917.620	1906.568	1902.884	1901.042
24.5	1918.541	1910.252	1899.199	1894.594	1892.752
25.0	1911.173	1901.963	1890.910	1887.226	1885.384
25.5	1903.805	1894.594	1883.542	1878.936	1877.094
26.0	1896.436	1886.305	1875.252	1870.647	1868.805
26.5	1888.147	1878.015	1866.963	1862.358	1860.515

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**CANDELA TABULATION - (Cont.)**

27.0	1879.857	1869.726	1858.673	1854.068	1851.305
27.5	1871.568	1860.515	1850.384	1844.858	1842.095
28.0	1862.358	1852.226	1842.095	1835.647	1832.884
28.5	1854.068	1843.016	1832.884	1825.516	1822.753
29.0	1844.858	1833.805	1823.674	1816.305	1812.621
29.5	1835.647	1825.516	1814.463	1805.253	1802.490
30.0	1826.437	1816.305	1805.253	1795.121	1790.516
30.5	1817.226	1806.174	1795.121	1784.069	1778.542
31.0	1808.016	1796.963	1784.990	1773.016	1766.569
31.5	1798.805	1786.832	1774.858	1761.042	1754.595
32.0	1788.674	1777.621	1764.727	1749.069	1741.700
32.5	1778.542	1767.490	1753.674	1737.095	1728.806
33.0	1769.332	1757.358	1742.621	1725.122	1715.911
33.5	1758.279	1747.227	1731.569	1712.227	1702.095
34.0	1748.148	1737.095	1719.595	1699.332	1688.280
34.5	1738.016	1726.964	1708.543	1685.517	1674.464
35.0	1727.885	1715.911	1696.569	1672.622	1659.727
35.5	1717.753	1704.858	1684.595	1658.806	1645.911
36.0	1706.701	1693.806	1672.622	1644.990	1631.175
36.5	1695.648	1682.753	1659.727	1631.175	1615.517
37.0	1684.595	1670.780	1647.754	1616.438	1600.780
37.5	1673.543	1659.727	1634.859	1601.701	1585.122
38.0	1661.569	1647.754	1621.964	1586.964	1569.465
38.5	1649.596	1635.780	1608.149	1572.228	1553.807
39.0	1637.622	1623.806	1595.254	1556.570	1537.228
39.5	1624.727	1611.833	1581.438	1539.991	1521.570
40.0	1612.754	1598.938	1567.622	1523.412	1504.070
40.5	1600.780	1586.043	1553.807	1506.833	1485.649
41.0	1587.885	1573.149	1539.070	1490.254	1468.149
41.5	1574.991	1560.254	1525.254	1472.755	1450.649
42.0	1562.096	1547.359	1509.596	1456.176	1433.150
42.5	1549.202	1534.465	1494.860	1437.755	1414.729
43.0	1535.386	1520.649	1479.202	1420.255	1394.466
43.5	1521.570	1507.754	1463.544	1401.834	1376.045
44.0	1508.675	1493.018	1447.886	1383.413	1356.703
44.5	1494.860	1479.202	1431.307	1364.992	1336.440
45.0	1481.965	1465.386	1415.650	1346.571	1318.019
45.5	1468.149	1451.570	1399.071	1328.150	1298.677
46.0	1454.334	1436.834	1382.492	1308.808	1279.335
46.5	1440.518	1423.018	1364.992	1289.466	1259.072
47.0	1426.702	1408.281	1348.413	1270.124	1238.809
47.5	1412.887	1393.545	1331.834	1250.782	1219.467
48.0	1399.071	1378.808	1314.334	1231.440	1199.204
48.5	1384.334	1364.992	1296.835	1212.098	1178.941
49.0	1369.597	1349.334	1279.335	1192.756	1158.677
49.5	1354.861	1334.597	1260.914	1172.493	1137.493
50.0	1340.124	1319.861	1242.493	1152.230	1117.230
50.5	1326.308	1304.203	1224.993	1132.888	1096.967
51.0	1310.650	1289.466	1205.651	1112.625	1076.704
51.5	1295.914	1273.808	1187.230	1093.283	1056.441
52.0	1281.177	1258.151	1168.809	1072.099	1036.178
52.5	1265.519	1242.493	1150.388	1051.836	1014.994
53.0	1249.861	1226.835	1131.046	1030.652	994.731
53.5	1235.124	1210.256	1110.783	1009.468	973.547
54.0	1220.388	1194.598	1092.362	989.205	951.442
54.5	1204.730	1178.019	1073.020	968.021	930.258

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**CANDELA TABULATION - (Cont.)**

55.0	1189.072	1161.441	1052.757	947.758	910.271
55.5	1173.414	1144.862	1032.494	926.574	889.087
56.0	1157.756	1128.283	1012.231	906.126	867.811
56.5	1142.099	1110.783	991.968	885.219	846.350
57.0	1127.362	1094.204	971.705	863.758	825.811
57.5	1111.704	1077.625	951.442	842.758	805.548
58.0	1096.046	1060.125	930.258	822.219	785.101
58.5	1080.388	1042.626	909.258	801.495	764.838
59.0	1065.652	1025.126	887.982	781.140	745.127
59.5	1049.994	1007.626	867.350	760.693	728.088
60.0	1034.336	989.205	846.719	742.825	708.654
60.5	1018.678	971.705	826.272	723.943	691.799
61.0	1003.942	954.205	805.824	705.246	672.457
61.5	987.363	935.784	785.745	689.128	653.851
62.0	971.705	918.100	766.127	669.878	634.694
62.5	956.047	900.047	747.338	651.088	616.181
63.0	940.389	881.350	729.285	632.483	598.036
63.5	923.810	862.929	711.048	614.154	580.444
64.0	907.416	843.956	693.917	596.010	563.681
64.5	890.745	825.443	674.022	577.957	547.194
65.0	873.798	806.193	654.128	560.549	530.523
65.5	856.390	786.390	634.233	542.681	514.221
66.0	839.535	766.219	613.970	525.181	497.734
66.5	822.219	747.246	593.799	507.589	481.155
67.0	805.087	728.456	573.997	490.273	464.576
67.5	787.588	710.772	554.194	472.958	448.182
68.0	769.351	691.522	534.300	456.011	431.971
68.5	750.746	671.075	514.497	438.511	415.669
69.0	734.259	649.707	494.971	421.103	399.919
69.5	719.983	627.878	474.984	404.248	383.985
70.0	702.943	606.233	455.274	387.945	368.603
70.5	683.878	584.312	436.024	372.011	353.130
71.0	664.812	562.484	417.327	356.261	338.669
71.5	645.102	540.471	399.090	341.248	324.393
72.0	626.128	518.826	380.669	326.327	310.117
72.5	607.154	497.181	362.708	311.682	295.656
73.0	587.997	475.721	345.669	297.406	281.472
73.5	568.747	454.537	329.090	282.946	267.564
74.0	549.497	433.721	312.880	268.669	254.025
74.5	530.339	412.537	297.038	254.762	240.762
75.0	510.997	391.998	281.472	240.762	228.143
75.5	491.195	371.550	266.735	227.591	216.262
76.0	471.760	351.380	252.275	214.788	204.749
76.5	452.234	331.577	237.907	202.630	193.236
77.0	432.984	311.959	223.999	191.025	182.459
77.5	413.274	293.077	210.275	179.881	171.867
78.0	393.103	274.748	196.736	169.012	161.736
78.5	373.393	256.604	183.565	158.328	152.249
79.0	353.130	239.196	170.946	148.289	142.762
79.5	332.959	222.341	158.789	138.433	133.644
80.0	312.143	205.946	147.183	129.039	124.894
80.5	291.604	190.288	136.131	120.197	116.697
81.0	270.880	175.091	125.631	111.631	109.420
81.5	249.696	160.262	115.407	103.618	102.697
82.0	228.604	146.078	105.368	96.434	95.881
82.5	207.420	132.447	96.065	89.434	88.421

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**CANDELA TABULATION - (Cont.)**

83.0	186.880	119.368	86.947	82.065	80.592
83.5	165.881	105.920	78.934	74.052	73.407
84.0	146.170	93.486	71.381	66.868	67.697
84.5	127.657	81.973	63.829	61.250	63.000
85.0	111.355	71.105	56.092	56.552	58.947
85.5	96.065	60.789	49.184	52.315	54.526
86.0	81.328	51.394	43.381	47.434	49.276
86.5	67.052	42.829	38.500	41.816	42.829
87.0	53.789	35.000	33.526	35.184	35.645
87.5	41.631	28.000	27.724	28.184	28.276
88.0	30.395	21.645	21.460	21.553	21.921
88.5	20.631	16.026	15.566	15.934	16.303
89.0	12.526	10.684	10.039	10.684	11.237
89.5	5.342	5.710	5.342	6.079	6.263
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-L60-827-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-L60-827-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-14-L60-827-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	767.84	N.A.	13.20
0-30	1641.23	N.A.	28.20
0-40	2700.52	N.A.	46.40
0-60	4724.33	N.A.	81.20
0-80	5740.46	N.A.	98.60
0-90	5821.48	N.A.	100.00
10-90	5623.78	N.A.	96.60
20-40	1932.68	N.A.	33.20
20-50	3016.57	N.A.	51.80
40-70	2696.34	N.A.	46.30
60-80	1016.12	N.A.	17.50
70-80	343.59	N.A.	5.90
80-90	81.02	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	5821.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	197.70
10-20	570.14
20-30	873.39
30-40	1059.29
40-50	1083.89
50-60	939.92
60-70	672.54
70-80	343.59
80-90	81.02
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-L60-827-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	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	77	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	46	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-L60-827-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

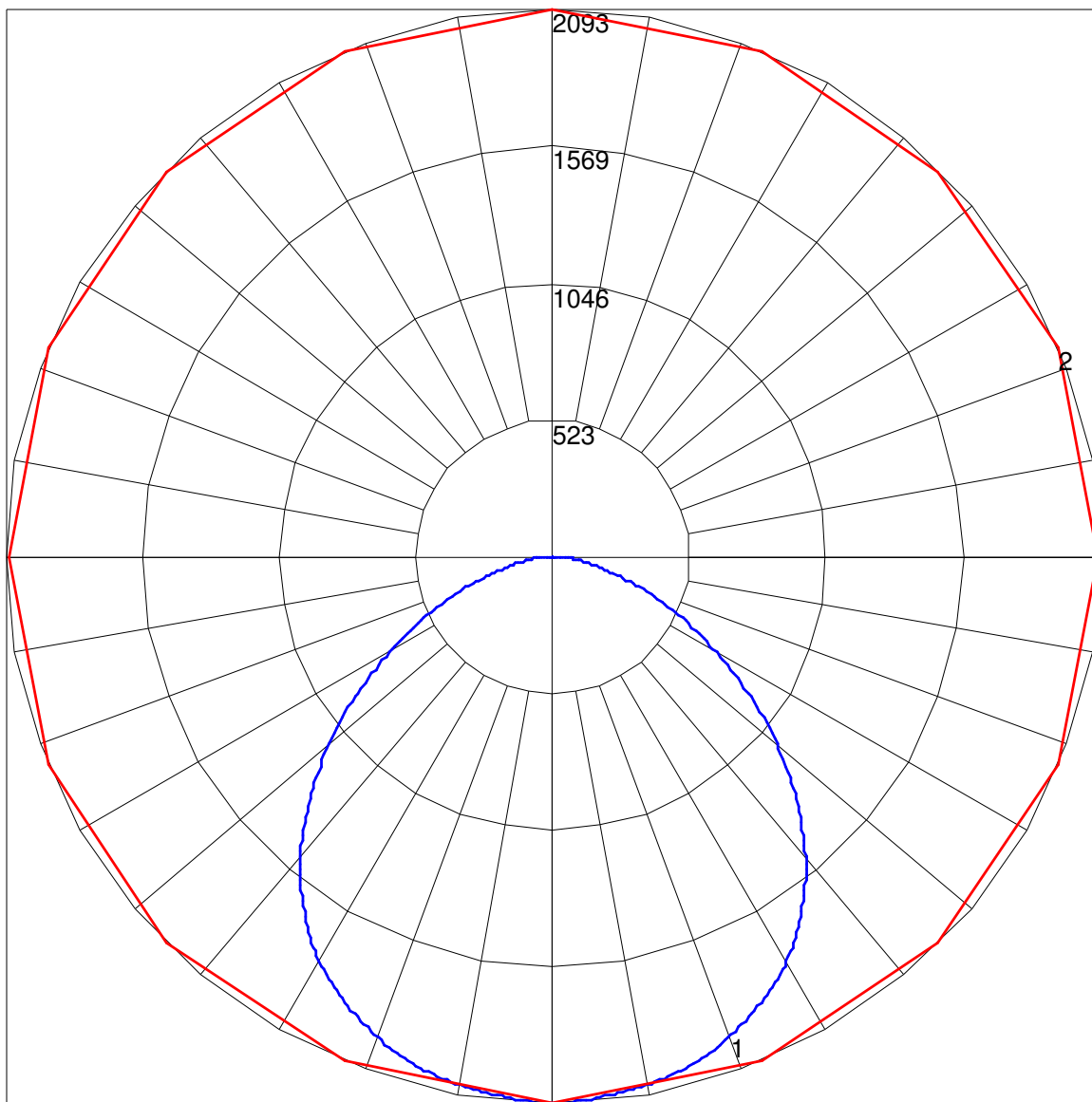
Reflectances

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	18.8	20.5	19.2	20.8	21.1	17.0	18.6	17.4	18.9	19.3
	3H	20.8	22.3	21.2	22.6	23.0	18.3	19.8	18.7	20.1	20.5
	4H	21.6	22.9	22.0	23.3	23.7	18.7	20.1	19.1	20.4	20.8
	6H	22.1	23.4	22.5	23.8	24.2	18.9	20.2	19.4	20.6	21.0
	8H	22.3	23.5	22.7	23.9	24.3	19.0	20.2	19.5	20.6	21.0
	12H	22.4	23.6	22.8	23.9	24.4	19.1	20.2	19.5	20.6	21.0
4H	2H	19.2	20.6	19.6	20.9	21.3	17.7	19.1	18.1	19.5	19.8
	3H	21.4	22.5	21.8	22.9	23.3	19.2	20.4	19.6	20.8	21.2
	4H	22.2	23.3	22.7	23.7	24.1	19.7	20.7	20.1	21.1	21.6
	6H	22.9	23.8	23.4	24.3	24.7	20.0	20.9	20.5	21.4	21.8
	8H	23.1	24.0	23.6	24.4	24.9	20.1	20.9	20.6	21.4	21.9
	12H	23.3	24.0	23.8	24.5	25.0	20.2	20.9	20.7	21.4	21.9
8H	4H	22.3	23.2	22.8	23.6	24.1	20.0	20.8	20.5	21.3	21.8
	6H	23.1	23.8	23.6	24.3	24.7	20.4	21.1	20.9	21.6	22.1
	8H	23.3	24.0	23.8	24.5	25.0	20.6	21.2	21.1	21.7	22.2
	12H	23.5	24.1	24.0	24.6	25.1	20.7	21.2	21.2	21.7	22.3
12H	4H	22.3	23.1	22.8	23.6	24.0	20.1	20.8	20.5	21.3	21.7
	6H	23.1	23.7	23.6	24.2	24.7	20.5	21.1	21.0	21.6	22.1
	8H	23.3	23.9	23.9	24.4	25.0	20.6	21.2	21.1	21.7	22.2

Maximum UGR = 25.1

POLAR GRAPH



Maximum Candela = 2092.619 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.)