



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-14-L60-850-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-L60-850-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 | 6362 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 123 |
| 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 | 6857 | 6550 | 6098 |
| 55 | 6783 | 6005 | 5192 |
| 65 | 6765 | 5064 | 4107 |
| 75 | 6459 | 3558 | 2884 |
| 85 | 4180 | 2106 | 2213 |

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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 | 2282.753 | 2282.753 | 2282.753 | 2282.753 | 2282.753 |
| 0.5 | 2278.727 | 2283.760 | 2280.740 | 2284.766 | 2286.779 |
| 1.0 | 2278.727 | 2282.753 | 2279.734 | 2283.760 | 2285.773 |
| 1.5 | 2277.721 | 2282.753 | 2278.727 | 2282.753 | 2284.766 |
| 2.0 | 2277.721 | 2281.747 | 2277.721 | 2281.747 | 2283.760 |
| 2.5 | 2276.714 | 2280.740 | 2276.714 | 2280.740 | 2281.747 |
| 3.0 | 2276.714 | 2279.734 | 2274.701 | 2278.727 | 2279.734 |
| 3.5 | 2275.708 | 2278.727 | 2273.695 | 2276.714 | 2278.727 |
| 4.0 | 2274.701 | 2277.721 | 2271.682 | 2275.708 | 2276.714 |
| 4.5 | 2273.695 | 2276.714 | 2269.669 | 2273.695 | 2274.701 |
| 5.0 | 2272.688 | 2274.701 | 2267.656 | 2271.682 | 2271.682 |
| 5.5 | 2271.682 | 2272.688 | 2265.643 | 2269.669 | 2269.669 |
| 6.0 | 2270.675 | 2270.675 | 2263.630 | 2266.649 | 2267.656 |
| 6.5 | 2268.662 | 2268.662 | 2261.617 | 2264.636 | 2265.643 |
| 7.0 | 2266.649 | 2266.649 | 2258.597 | 2262.623 | 2262.623 |
| 7.5 | 2264.636 | 2263.630 | 2256.584 | 2259.604 | 2260.610 |
| 8.0 | 2262.623 | 2261.617 | 2253.565 | 2257.591 | 2257.591 |
| 8.5 | 2260.610 | 2258.597 | 2250.545 | 2254.571 | 2255.578 |
| 9.0 | 2257.591 | 2255.578 | 2248.532 | 2251.552 | 2252.558 |
| 9.5 | 2255.578 | 2252.558 | 2245.513 | 2248.532 | 2249.539 |
| 10.0 | 2252.558 | 2249.539 | 2241.487 | 2245.513 | 2246.519 |
| 10.5 | 2249.539 | 2246.519 | 2238.467 | 2241.487 | 2243.500 |
| 11.0 | 2245.513 | 2242.493 | 2235.448 | 2238.467 | 2240.480 |
| 11.5 | 2242.493 | 2239.474 | 2231.422 | 2235.448 | 2236.454 |
| 12.0 | 2239.474 | 2235.448 | 2227.396 | 2231.422 | 2232.428 |
| 12.5 | 2235.448 | 2231.422 | 2223.370 | 2227.396 | 2228.402 |
| 13.0 | 2231.422 | 2227.396 | 2219.344 | 2223.370 | 2224.376 |
| 13.5 | 2227.396 | 2223.370 | 2215.318 | 2219.344 | 2220.350 |
| 14.0 | 2222.363 | 2218.337 | 2210.285 | 2215.318 | 2216.324 |
| 14.5 | 2218.337 | 2213.305 | 2206.259 | 2210.285 | 2212.298 |
| 15.0 | 2213.305 | 2209.279 | 2201.226 | 2205.252 | 2207.265 |
| 15.5 | 2208.272 | 2204.246 | 2196.194 | 2200.220 | 2202.233 |
| 16.0 | 2203.239 | 2198.207 | 2190.155 | 2195.187 | 2197.200 |
| 16.5 | 2198.207 | 2193.174 | 2185.122 | 2189.148 | 2192.168 |
| 17.0 | 2193.174 | 2188.142 | 2179.083 | 2183.109 | 2186.129 |
| 17.5 | 2188.142 | 2182.103 | 2174.051 | 2177.070 | 2180.090 |
| 18.0 | 2183.109 | 2177.070 | 2168.012 | 2171.031 | 2173.044 |
| 18.5 | 2177.070 | 2171.031 | 2161.973 | 2164.992 | 2167.005 |
| 19.0 | 2172.038 | 2164.992 | 2155.934 | 2157.947 | 2158.953 |
| 19.5 | 2165.999 | 2158.953 | 2148.888 | 2150.901 | 2151.908 |
| 20.0 | 2159.960 | 2152.914 | 2142.849 | 2143.856 | 2143.856 |
| 20.5 | 2152.914 | 2146.875 | 2135.804 | 2136.810 | 2135.804 |
| 21.0 | 2146.875 | 2139.830 | 2128.758 | 2128.758 | 2127.752 |
| 21.5 | 2140.836 | 2132.784 | 2121.713 | 2120.706 | 2119.700 |
| 22.0 | 2133.791 | 2125.739 | 2114.667 | 2113.661 | 2111.648 |
| 22.5 | 2126.745 | 2118.693 | 2106.615 | 2104.602 | 2103.595 |
| 23.0 | 2119.700 | 2111.648 | 2099.569 | 2096.550 | 2095.543 |
| 23.5 | 2112.654 | 2103.595 | 2091.517 | 2088.498 | 2086.485 |
| 24.0 | 2104.602 | 2095.543 | 2083.465 | 2079.439 | 2077.426 |
| 24.5 | 2096.550 | 2087.491 | 2075.413 | 2070.381 | 2068.368 |
| 25.0 | 2088.498 | 2078.433 | 2066.355 | 2062.329 | 2060.316 |
| 25.5 | 2080.446 | 2070.381 | 2058.303 | 2053.270 | 2051.257 |
| 26.0 | 2072.394 | 2061.322 | 2049.244 | 2044.212 | 2042.199 |
| 26.5 | 2063.335 | 2052.264 | 2040.186 | 2035.153 | 2033.140 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|------|----------|----------|----------|----------|----------|
| 27.0 | 2054.277 | 2043.205 | 2031.127 | 2026.095 | 2023.075 |
| 27.5 | 2045.218 | 2033.140 | 2022.069 | 2016.030 | 2013.010 |
| 28.0 | 2035.153 | 2024.082 | 2013.010 | 2005.964 | 2002.945 |
| 28.5 | 2026.095 | 2014.017 | 2002.945 | 1994.893 | 1991.873 |
| 29.0 | 2016.030 | 2003.951 | 1992.880 | 1984.828 | 1980.802 |
| 29.5 | 2005.964 | 1994.893 | 1982.815 | 1972.750 | 1969.730 |
| 30.0 | 1995.899 | 1984.828 | 1972.750 | 1961.678 | 1956.646 |
| 30.5 | 1985.834 | 1973.756 | 1961.678 | 1949.600 | 1943.561 |
| 31.0 | 1975.769 | 1963.691 | 1950.607 | 1937.522 | 1930.477 |
| 31.5 | 1965.704 | 1952.620 | 1939.535 | 1924.438 | 1917.392 |
| 32.0 | 1954.633 | 1942.555 | 1928.464 | 1911.353 | 1903.301 |
| 32.5 | 1943.561 | 1931.483 | 1916.386 | 1898.268 | 1889.210 |
| 33.0 | 1933.496 | 1920.412 | 1904.307 | 1885.184 | 1875.119 |
| 33.5 | 1921.418 | 1909.340 | 1892.229 | 1871.093 | 1860.021 |
| 34.0 | 1910.347 | 1898.268 | 1879.145 | 1857.002 | 1844.924 |
| 34.5 | 1899.275 | 1887.197 | 1867.067 | 1841.904 | 1829.826 |
| 35.0 | 1888.203 | 1875.119 | 1853.982 | 1827.813 | 1813.722 |
| 35.5 | 1877.132 | 1863.041 | 1840.898 | 1812.716 | 1798.624 |
| 36.0 | 1865.054 | 1850.963 | 1827.813 | 1797.618 | 1782.520 |
| 36.5 | 1852.976 | 1838.885 | 1813.722 | 1782.520 | 1765.410 |
| 37.0 | 1840.898 | 1825.800 | 1800.637 | 1766.416 | 1749.306 |
| 37.5 | 1828.820 | 1813.722 | 1786.546 | 1750.312 | 1732.195 |
| 38.0 | 1815.735 | 1800.637 | 1772.455 | 1734.208 | 1715.085 |
| 38.5 | 1802.650 | 1787.553 | 1757.358 | 1718.104 | 1697.974 |
| 39.0 | 1789.566 | 1774.468 | 1743.267 | 1700.993 | 1679.857 |
| 39.5 | 1775.475 | 1761.384 | 1728.169 | 1682.876 | 1662.746 |
| 40.0 | 1762.390 | 1747.293 | 1713.072 | 1664.759 | 1643.623 |
| 40.5 | 1749.306 | 1733.202 | 1697.974 | 1646.642 | 1623.493 |
| 41.0 | 1735.215 | 1719.111 | 1681.870 | 1628.525 | 1604.369 |
| 41.5 | 1721.124 | 1705.019 | 1666.772 | 1609.402 | 1585.245 |
| 42.0 | 1707.033 | 1690.928 | 1649.662 | 1591.284 | 1566.122 |
| 42.5 | 1692.941 | 1676.837 | 1633.558 | 1571.154 | 1545.992 |
| 43.0 | 1677.844 | 1661.740 | 1616.447 | 1552.031 | 1523.849 |
| 43.5 | 1662.746 | 1647.649 | 1599.336 | 1531.901 | 1503.718 |
| 44.0 | 1648.655 | 1631.545 | 1582.226 | 1511.771 | 1482.582 |
| 44.5 | 1633.558 | 1616.447 | 1564.109 | 1491.640 | 1460.439 |
| 45.0 | 1619.467 | 1601.349 | 1546.998 | 1471.510 | 1440.309 |
| 45.5 | 1604.369 | 1586.252 | 1528.881 | 1451.380 | 1419.172 |
| 46.0 | 1589.271 | 1570.148 | 1510.764 | 1430.244 | 1398.035 |
| 46.5 | 1574.174 | 1555.050 | 1491.640 | 1409.107 | 1375.892 |
| 47.0 | 1559.076 | 1538.946 | 1473.523 | 1387.970 | 1353.749 |
| 47.5 | 1543.979 | 1522.842 | 1455.406 | 1366.834 | 1332.613 |
| 48.0 | 1528.881 | 1506.738 | 1436.283 | 1345.697 | 1310.470 |
| 48.5 | 1512.777 | 1491.640 | 1417.159 | 1324.561 | 1288.326 |
| 49.0 | 1496.673 | 1474.530 | 1398.035 | 1303.424 | 1266.183 |
| 49.5 | 1480.569 | 1458.426 | 1377.905 | 1281.281 | 1243.034 |
| 50.0 | 1464.465 | 1442.322 | 1357.775 | 1259.138 | 1220.891 |
| 50.5 | 1449.367 | 1425.211 | 1338.652 | 1238.001 | 1198.747 |
| 51.0 | 1432.257 | 1409.107 | 1317.515 | 1215.858 | 1176.604 |
| 51.5 | 1416.153 | 1391.996 | 1297.385 | 1194.721 | 1154.461 |
| 52.0 | 1400.048 | 1374.886 | 1277.255 | 1171.572 | 1132.318 |
| 52.5 | 1382.938 | 1357.775 | 1257.125 | 1149.429 | 1109.169 |
| 53.0 | 1365.827 | 1340.665 | 1235.988 | 1126.279 | 1087.025 |
| 53.5 | 1349.723 | 1322.548 | 1213.845 | 1103.129 | 1063.876 |
| 54.0 | 1333.619 | 1305.437 | 1193.715 | 1080.986 | 1039.720 |
| 54.5 | 1316.509 | 1287.320 | 1172.578 | 1057.837 | 1016.570 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|------|----------|----------|----------|----------|---------|
| 55.0 | 1299.398 | 1269.203 | 1150.435 | 1035.694 | 994.729 |
| 55.5 | 1282.287 | 1251.086 | 1128.292 | 1012.544 | 971.579 |
| 56.0 | 1265.177 | 1232.969 | 1106.149 | 990.200 | 948.329 |
| 56.5 | 1248.066 | 1213.845 | 1084.006 | 967.352 | 924.877 |
| 57.0 | 1231.962 | 1195.728 | 1061.863 | 943.900 | 902.432 |
| 57.5 | 1214.852 | 1177.611 | 1039.720 | 920.952 | 880.289 |
| 58.0 | 1197.741 | 1158.487 | 1016.570 | 898.507 | 857.945 |
| 58.5 | 1180.630 | 1139.364 | 993.622 | 875.861 | 835.802 |
| 59.0 | 1164.526 | 1120.240 | 970.371 | 853.617 | 814.263 |
| 59.5 | 1147.416 | 1101.116 | 947.826 | 831.272 | 795.642 |
| 60.0 | 1130.305 | 1080.986 | 925.280 | 811.746 | 774.405 |
| 60.5 | 1113.195 | 1061.863 | 902.936 | 791.113 | 755.986 |
| 61.0 | 1097.090 | 1042.739 | 880.591 | 770.681 | 734.849 |
| 61.5 | 1078.973 | 1022.609 | 858.649 | 753.067 | 714.518 |
| 62.0 | 1061.863 | 1003.284 | 837.211 | 732.031 | 693.583 |
| 62.5 | 1044.752 | 983.557 | 816.678 | 711.498 | 673.352 |
| 63.0 | 1027.642 | 963.125 | 796.951 | 691.167 | 653.524 |
| 63.5 | 1009.525 | 942.995 | 777.022 | 671.138 | 634.299 |
| 64.0 | 991.609 | 922.261 | 758.301 | 651.309 | 615.981 |
| 64.5 | 973.391 | 902.030 | 736.560 | 631.582 | 597.965 |
| 65.0 | 954.871 | 880.994 | 714.820 | 612.559 | 579.747 |
| 65.5 | 935.848 | 859.354 | 693.079 | 593.033 | 561.932 |
| 66.0 | 917.429 | 837.312 | 670.936 | 573.909 | 543.915 |
| 66.5 | 898.507 | 816.578 | 648.894 | 554.685 | 525.798 |
| 67.0 | 879.786 | 796.045 | 627.254 | 535.763 | 507.681 |
| 67.5 | 860.662 | 776.720 | 605.614 | 516.840 | 489.765 |
| 68.0 | 840.734 | 755.684 | 583.874 | 498.321 | 472.051 |
| 68.5 | 820.402 | 733.340 | 562.234 | 479.197 | 454.236 |
| 69.0 | 802.386 | 709.989 | 540.896 | 460.174 | 437.024 |
| 69.5 | 786.785 | 686.134 | 519.055 | 441.755 | 419.612 |
| 70.0 | 768.165 | 662.482 | 497.515 | 423.940 | 402.803 |
| 70.5 | 747.330 | 638.527 | 476.479 | 406.527 | 385.894 |
| 71.0 | 726.495 | 614.673 | 456.047 | 389.316 | 370.092 |
| 71.5 | 704.956 | 590.617 | 436.119 | 372.910 | 354.491 |
| 72.0 | 684.222 | 566.964 | 415.989 | 356.605 | 338.890 |
| 72.5 | 663.488 | 543.311 | 396.362 | 340.601 | 323.088 |
| 73.0 | 642.553 | 519.860 | 377.741 | 325.000 | 307.588 |
| 73.5 | 621.517 | 496.710 | 359.624 | 309.198 | 292.390 |
| 74.0 | 600.481 | 473.963 | 341.910 | 293.598 | 277.594 |
| 74.5 | 579.546 | 450.814 | 324.598 | 278.399 | 263.100 |
| 75.0 | 558.409 | 428.369 | 307.588 | 263.100 | 249.311 |
| 75.5 | 536.769 | 406.024 | 291.484 | 248.707 | 236.327 |
| 76.0 | 515.532 | 383.982 | 275.682 | 234.717 | 223.746 |
| 76.5 | 494.194 | 362.342 | 259.980 | 221.431 | 211.165 |
| 77.0 | 473.158 | 340.903 | 244.782 | 208.749 | 199.389 |
| 77.5 | 451.619 | 320.270 | 229.785 | 196.570 | 187.814 |
| 78.0 | 429.576 | 300.240 | 214.989 | 184.694 | 176.742 |
| 78.5 | 408.037 | 280.412 | 200.596 | 173.018 | 166.375 |
| 79.0 | 385.894 | 261.389 | 186.807 | 162.047 | 156.008 |
| 79.5 | 363.852 | 242.970 | 173.521 | 151.278 | 146.044 |
| 80.0 | 341.105 | 225.055 | 160.840 | 141.011 | 136.482 |
| 80.5 | 318.659 | 207.944 | 148.761 | 131.349 | 127.524 |
| 81.0 | 296.013 | 191.337 | 137.287 | 121.988 | 119.573 |
| 81.5 | 272.864 | 175.132 | 126.115 | 113.232 | 112.225 |
| 82.0 | 249.815 | 159.632 | 115.144 | 105.381 | 104.777 |
| 82.5 | 226.665 | 144.735 | 104.978 | 97.732 | 96.624 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|---------|---------|--------|--------|--------|
| 83.0 | 204.220 | 130.443 | 95.014 | 89.680 | 88.069 |
| 83.5 | 181.272 | 115.748 | 86.257 | 80.923 | 80.218 |
| 84.0 | 159.732 | 102.160 | 78.004 | 73.072 | 73.978 |
| 84.5 | 139.502 | 89.579 | 69.751 | 66.933 | 68.845 |
| 85.0 | 121.686 | 77.702 | 61.296 | 61.799 | 64.416 |
| 85.5 | 104.978 | 66.429 | 53.747 | 57.169 | 59.585 |
| 86.0 | 88.874 | 56.163 | 47.406 | 51.835 | 53.848 |
| 86.5 | 73.274 | 46.802 | 42.072 | 45.695 | 46.802 |
| 87.0 | 58.780 | 38.247 | 36.637 | 38.448 | 38.952 |
| 87.5 | 45.494 | 30.598 | 30.296 | 30.799 | 30.900 |
| 88.0 | 33.215 | 23.653 | 23.452 | 23.552 | 23.955 |
| 88.5 | 22.546 | 17.513 | 17.010 | 17.413 | 17.815 |
| 89.0 | 13.688 | 11.675 | 10.971 | 11.675 | 12.279 |
| 89.5 | 5.838 | 6.240 | 5.838 | 6.643 | 6.844 |
| 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-L60-850-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-L60-850-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-L60-850-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 839.09 | N.A. | 13.20 |
| 0-30 | 1793.51 | N.A. | 28.20 |
| 0-40 | 2951.08 | N.A. | 46.40 |
| 0-60 | 5162.67 | N.A. | 81.20 |
| 0-80 | 6273.07 | N.A. | 98.60 |
| 0-90 | 6361.62 | N.A. | 100.00 |
| 10-90 | 6145.57 | N.A. | 96.60 |
| 20-40 | 2112.00 | N.A. | 33.20 |
| 20-50 | 3296.46 | N.A. | 51.80 |
| 40-70 | 2946.52 | N.A. | 46.30 |
| 60-80 | 1110.4 | N.A. | 17.50 |
| 70-80 | 375.47 | N.A. | 5.90 |
| 80-90 | 88.54 | 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 | 6361.62 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 216.04 |
| 10-20 | 623.04 |
| 20-30 | 954.43 |
| 30-40 | 1157.57 |
| 40-50 | 1184.46 |
| 50-60 | 1027.13 |
| 60-70 | 734.94 |
| 70-80 | 375.47 |
| 80-90 | 88.54 |
| 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-L60-850-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-L60-850-DIM-UNV_.IES

UGR TABLE - CORRECTED

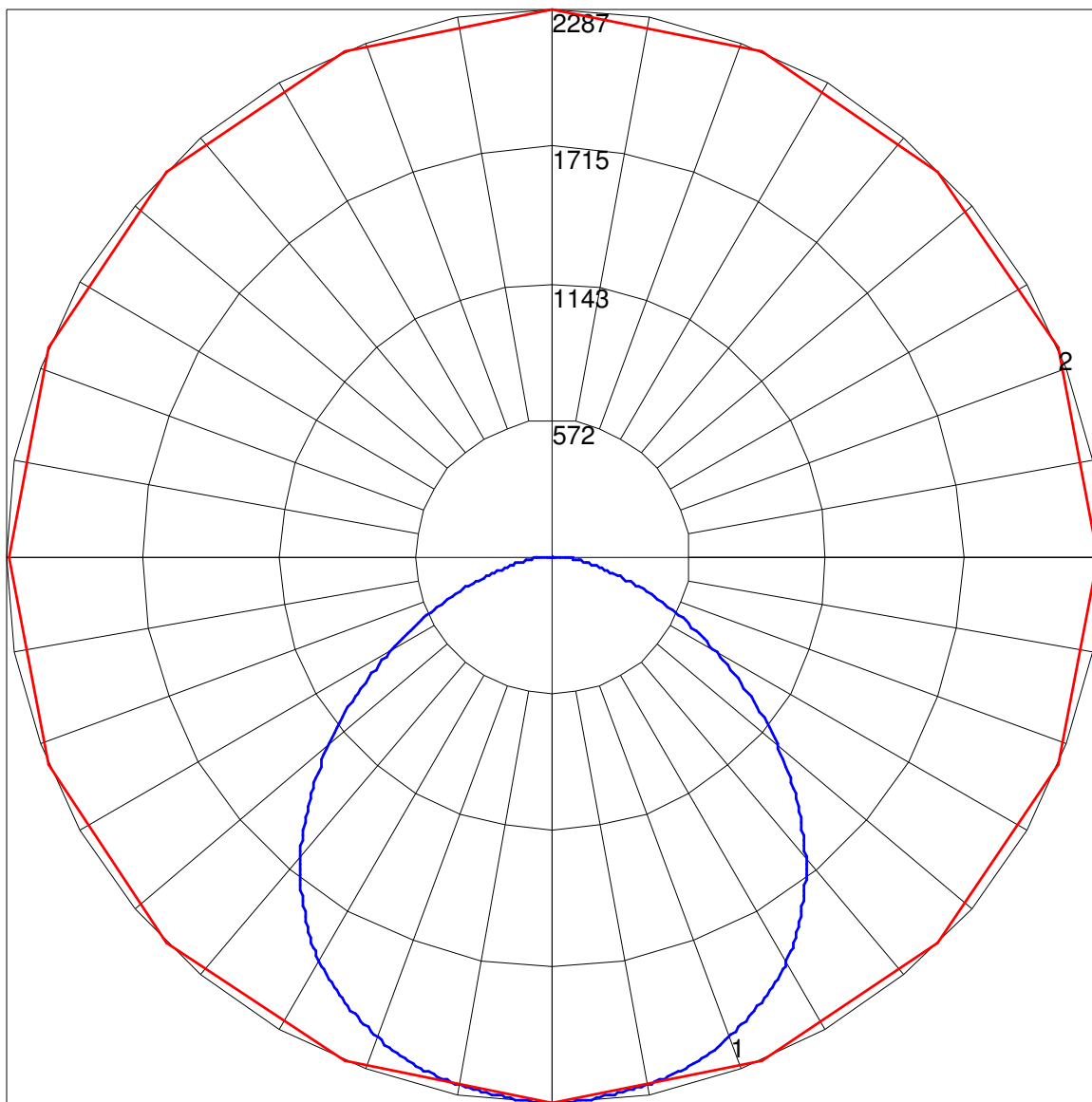
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 19.1 | 20.8 | 19.5 | 21.1 | 21.4 | 17.3 | 18.9 | 17.7 | 19.2 | 19.6 |
| | 3H | 21.1 | 22.6 | 21.5 | 22.9 | 23.3 | 18.6 | 20.1 | 19.0 | 20.4 | 20.8 |
| | 4H | 21.9 | 23.2 | 22.3 | 23.6 | 24.0 | 19.0 | 20.4 | 19.4 | 20.7 | 21.1 |
| | 6H | 22.4 | 23.7 | 22.8 | 24.1 | 24.5 | 19.3 | 20.5 | 19.7 | 20.9 | 21.3 |
| | 8H | 22.6 | 23.8 | 23.0 | 24.2 | 24.6 | 19.3 | 20.5 | 19.8 | 20.9 | 21.3 |
| | 12H | 22.7 | 23.9 | 23.1 | 24.2 | 24.7 | 19.4 | 20.5 | 19.8 | 20.9 | 21.3 |
| 4H | 2H | 19.5 | 20.9 | 19.9 | 21.2 | 21.6 | 18.0 | 19.4 | 18.4 | 19.8 | 20.1 |
| | 3H | 21.7 | 22.8 | 22.1 | 23.2 | 23.6 | 19.5 | 20.7 | 19.9 | 21.1 | 21.5 |
| | 4H | 22.5 | 23.6 | 23.0 | 24.0 | 24.4 | 20.0 | 21.0 | 20.4 | 21.4 | 21.9 |
| | 6H | 23.2 | 24.1 | 23.7 | 24.6 | 25.0 | 20.3 | 21.2 | 20.8 | 21.7 | 22.1 |
| | 8H | 23.4 | 24.3 | 23.9 | 24.7 | 25.2 | 20.4 | 21.2 | 20.9 | 21.7 | 22.2 |
| | 12H | 23.6 | 24.3 | 24.1 | 24.8 | 25.3 | 20.5 | 21.2 | 21.0 | 21.7 | 22.2 |
| 8H | 4H | 22.6 | 23.5 | 23.1 | 23.9 | 24.4 | 20.3 | 21.1 | 20.8 | 21.6 | 22.1 |
| | 6H | 23.4 | 24.1 | 23.9 | 24.6 | 25.0 | 20.7 | 21.4 | 21.2 | 21.9 | 22.4 |
| | 8H | 23.6 | 24.3 | 24.1 | 24.8 | 25.3 | 20.9 | 21.5 | 21.4 | 22.0 | 22.5 |
| | 12H | 23.8 | 24.4 | 24.3 | 24.9 | 25.4 | 21.0 | 21.5 | 21.5 | 22.0 | 22.6 |
| 12H | 4H | 22.6 | 23.4 | 23.1 | 23.9 | 24.3 | 20.4 | 21.1 | 20.8 | 21.6 | 22.1 |
| | 6H | 23.4 | 24.0 | 23.9 | 24.5 | 25.0 | 20.8 | 21.4 | 21.3 | 21.9 | 22.4 |
| | 8H | 23.6 | 24.2 | 24.2 | 24.7 | 25.3 | 20.9 | 21.5 | 21.4 | 22.0 | 22.5 |

Maximum UGR = 25.4

POLAR GRAPH



Maximum Candela = 2286.779 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.)