



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CPYRA12-LED60DMVXX40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]
 [ISSUE DATE] 2017-5-17 17:55
 [MANUFAC]
 [LUMCAT]
 [LUMINAIRE] CPYRA12-LED60DMVxx40
 [LAMPCAT] L130-4070-Qμμ
 [LAMP] DIM70W12S-1580
 [VOLTAGE] 119.8 V
 [CURRENT] 0.494 A
 [POWERFACTOR] 0.993
 [TESTLAB]
 [TESTINST] GPM-1800B
 [TESTDIST] 11.672 m

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | 7663.3 (1 lamp) |
| Total Lamp Lumens | 7663.3 |
| Luminaire Lumens | 7663 |
| Total Luminaire Efficiency | 100 % |
| Luminaire Efficacy Rating (LER) | 130 |
| Total Luminaire Watts | 58.76 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.42 |
| Spacing Criterion (90-270) | 1.40 |
| Spacing Criterion (Diagonal) | 1.52 |
| Basic Luminous Shape | Point |
| Luminous Length (0-180) | 0.00 m |
| Luminous Width (90-270) | 0.00 m |
| Luminous Height | 0.00 m |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 0 | 0 | 0 |
| 55 | 0 | 0 | 0 |
| 65 | 0 | 0 | 0 |
| 75 | 0 | 0 | 0 |
| 85 | 0 | 0 | 0 |

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CANDELA TABULATION

| | <u>0</u> | <u>30</u> | <u>60</u> | <u>90</u> | <u>120</u> | <u>150</u> | <u>180</u> | <u>210</u> | <u>240</u> | <u>270</u> |
|-----------|----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| 0 | 2107.61 | 2105.38 | 2104.12 | 2104.68 | 2104.03 | 2103.75 | 2107.61 | 2105.38 | 2104.12 | 2104.68 |
| 1 | 2106.78 | 2104.77 | 2103.84 | 2104.31 | 2103.98 | 2103.98 | 2107.61 | 2105.28 | 2104.96 | 2104.45 |
| 2 | 2105.89 | 2104.26 | 2103.56 | 2103.75 | 2102.86 | 2102.58 | 2103.51 | 2102.91 | 2104.54 | 2103.98 |
| 3 | 2105.84 | 2105.28 | 2102.95 | 2102.40 | 2100.81 | 2100.16 | 2100.72 | 2100.81 | 2103.28 | 2103.56 |
| 4 | 2103.19 | 2105.19 | 2101.37 | 2100.02 | 2097.55 | 2095.08 | 2097.32 | 2097.60 | 2101.09 | 2102.63 |
| 5 | 2102.91 | 2104.82 | 2102.21 | 2096.94 | 2093.73 | 2091.21 | 2093.22 | 2093.54 | 2098.34 | 2098.16 |
| 6 | 2102.44 | 2103.19 | 2099.60 | 2093.54 | 2089.21 | 2086.27 | 2088.51 | 2092.05 | 2094.47 | 2095.13 |
| 7 | 2101.09 | 2100.81 | 2096.10 | 2087.62 | 2084.60 | 2081.24 | 2083.43 | 2087.07 | 2089.63 | 2091.21 |
| 8 | 2098.67 | 2094.66 | 2092.61 | 2083.06 | 2077.75 | 2075.42 | 2077.89 | 2081.99 | 2084.41 | 2086.55 |
| 9 | 2096.71 | 2090.42 | 2088.28 | 2078.35 | 2072.85 | 2070.10 | 2071.64 | 2076.30 | 2079.52 | 2081.10 |
| 10 | 2091.86 | 2085.71 | 2079.61 | 2073.32 | 2067.68 | 2064.84 | 2066.33 | 2071.04 | 2071.74 | 2077.89 |
| 11 | 2087.16 | 2080.77 | 2075.04 | 2070.24 | 2063.07 | 2060.51 | 2061.48 | 2065.68 | 2066.14 | 2072.06 |
| 12 | 2081.47 | 2075.84 | 2069.82 | 2065.91 | 2058.55 | 2056.68 | 2058.04 | 2057.29 | 2060.65 | 2065.96 |
| 13 | 2075.42 | 2070.29 | 2065.07 | 2061.34 | 2056.64 | 2053.89 | 2053.89 | 2053.28 | 2055.71 | 2060.13 |
| 14 | 2068.47 | 2066.52 | 2060.27 | 2057.24 | 2052.26 | 2049.65 | 2049.51 | 2048.90 | 2050.58 | 2052.35 |
| 15 | 2062.42 | 2061.44 | 2056.64 | 2050.25 | 2048.11 | 2045.04 | 2044.43 | 2044.57 | 2047.37 | 2046.76 |
| 16 | 2057.24 | 2056.59 | 2052.30 | 2045.55 | 2044.29 | 2040.84 | 2037.30 | 2040.75 | 2042.61 | 2041.40 |
| 17 | 2051.98 | 2051.65 | 2047.69 | 2041.03 | 2040.38 | 2036.84 | 2032.92 | 2036.18 | 2037.72 | 2035.90 |
| 18 | 2045.08 | 2044.99 | 2042.71 | 2036.51 | 2034.37 | 2030.82 | 2028.68 | 2031.76 | 2032.87 | 2029.47 |
| 19 | 2039.72 | 2040.84 | 2038.56 | 2032.41 | 2030.59 | 2027.14 | 2024.11 | 2027.47 | 2026.07 | 2023.70 |
| 20 | 2034.37 | 2035.95 | 2035.20 | 2029.66 | 2027.00 | 2023.18 | 2020.11 | 2022.67 | 2021.27 | 2018.20 |
| 21 | 2029.75 | 2031.43 | 2031.62 | 2025.51 | 2023.42 | 2018.76 | 2017.82 | 2018.76 | 2016.75 | 2013.12 |
| 22 | 2024.58 | 2027.14 | 2027.33 | 2020.90 | 2019.36 | 2015.54 | 2012.51 | 2013.30 | 2011.67 | 2007.53 |
| 23 | 2022.11 | 2023.00 | 2023.32 | 2015.82 | 2014.80 | 2010.32 | 2007.25 | 2007.90 | 2006.13 | 2003.33 |
| 24 | 2016.80 | 2018.71 | 2015.54 | 2010.65 | 2009.39 | 2004.82 | 2001.38 | 2002.12 | 1999.88 | 1997.65 |
| 25 | 2011.39 | 2014.05 | 2010.28 | 2005.34 | 2003.71 | 1998.72 | 1992.99 | 1992.43 | 1993.50 | 1991.87 |
| 26 | 2005.52 | 2008.64 | 2004.50 | 1999.05 | 1997.28 | 1992.38 | 1985.53 | 1985.77 | 1986.37 | 1984.97 |
| 27 | 1996.25 | 2003.01 | 1998.44 | 1992.43 | 1990.43 | 1983.48 | 1977.29 | 1978.08 | 1978.82 | 1974.40 |
| 28 | 1989.54 | 1996.62 | 1994.01 | 1984.18 | 1982.60 | 1975.14 | 1968.06 | 1969.74 | 1969.88 | 1966.99 |
| 29 | 1982.97 | 1990.29 | 1986.74 | 1975.66 | 1973.70 | 1966.10 | 1957.11 | 1962.28 | 1960.46 | 1958.14 |
| 30 | 1975.42 | 1982.97 | 1978.50 | 1963.87 | 1963.45 | 1956.08 | 1945.97 | 1951.80 | 1950.45 | 1948.26 |
| 31 | 1967.64 | 1972.30 | 1969.74 | 1953.66 | 1949.38 | 1944.20 | 1934.19 | 1940.01 | 1939.50 | 1939.12 |
| 32 | 1958.00 | 1962.79 | 1957.16 | 1942.85 | 1937.68 | 1932.41 | 1920.86 | 1927.48 | 1924.77 | 1927.52 |
| 33 | 1947.46 | 1952.73 | 1946.53 | 1932.04 | 1924.54 | 1918.67 | 1906.55 | 1913.73 | 1911.73 | 1914.94 |
| 34 | 1936.28 | 1941.78 | 1935.30 | 1918.06 | 1911.26 | 1903.99 | 1891.13 | 1895.79 | 1897.84 | 1901.80 |
| 35 | 1923.98 | 1930.13 | 1922.54 | 1903.06 | 1895.98 | 1887.36 | 1874.59 | 1880.09 | 1882.65 | 1883.86 |
| 36 | 1909.58 | 1916.57 | 1908.98 | 1887.17 | 1879.30 | 1869.93 | 1856.46 | 1863.50 | 1866.62 | 1868.53 |
| 37 | 1895.37 | 1902.50 | 1891.88 | 1865.50 | 1861.54 | 1850.83 | 1837.27 | 1845.47 | 1849.10 | 1852.04 |
| 38 | 1879.62 | 1886.94 | 1875.10 | 1846.82 | 1842.53 | 1831.21 | 1812.57 | 1824.03 | 1830.42 | 1834.28 |
| 39 | 1863.13 | 1869.93 | 1856.79 | 1827.06 | 1819.28 | 1810.99 | 1791.18 | 1803.67 | 1810.71 | 1815.88 |
| 40 | 1841.97 | 1848.68 | 1837.41 | 1806.28 | 1798.31 | 1785.50 | 1768.63 | 1782.24 | 1789.88 | 1793.56 |
| 41 | 1822.59 | 1829.53 | 1817.37 | 1784.94 | 1776.32 | 1763.09 | 1745.01 | 1759.96 | 1765.09 | 1772.40 |
| 42 | 1802.13 | 1809.08 | 1795.84 | 1762.29 | 1754.42 | 1740.30 | 1721.01 | 1737.27 | 1743.14 | 1750.04 |
| 43 | 1780.61 | 1787.97 | 1774.08 | 1737.78 | 1731.26 | 1716.58 | 1695.99 | 1713.74 | 1720.26 | 1726.28 |
| 44 | 1758.19 | 1764.90 | 1752.18 | 1713.74 | 1705.03 | 1692.12 | 1669.43 | 1689.51 | 1695.80 | 1702.05 |
| 45 | 1735.22 | 1742.30 | 1729.40 | 1689.19 | 1680.33 | 1666.73 | 1638.63 | 1664.02 | 1669.20 | 1677.12 |
| 46 | 1711.22 | 1718.77 | 1701.07 | 1661.69 | 1655.36 | 1640.17 | 1610.86 | 1633.60 | 1643.47 | 1651.21 |
| 47 | 1686.30 | 1694.64 | 1676.23 | 1634.85 | 1628.05 | 1613.19 | 1582.57 | 1606.48 | 1617.33 | 1624.00 |
| 48 | 1656.52 | 1668.17 | 1650.09 | 1607.41 | 1600.51 | 1581.88 | 1553.22 | 1578.47 | 1588.07 | 1591.80 |
| 49 | 1629.36 | 1642.26 | 1622.23 | 1579.31 | 1572.60 | 1552.89 | 1522.84 | 1549.91 | 1559.98 | 1563.56 |
| 50 | 1601.45 | 1614.49 | 1594.27 | 1544.41 | 1543.15 | 1522.42 | 1488.08 | 1518.74 | 1531.32 | 1534.63 |
| 51 | 1572.65 | 1587.14 | 1565.85 | 1514.13 | 1513.15 | 1491.15 | 1455.00 | 1487.43 | 1501.13 | 1504.67 |
| 52 | 1542.97 | 1558.16 | 1535.93 | 1482.77 | 1481.60 | 1458.12 | 1421.59 | 1455.23 | 1470.42 | 1472.89 |
| 53 | 1510.44 | 1523.16 | 1505.23 | 1450.34 | 1443.21 | 1420.47 | 1387.11 | 1422.29 | 1434.07 | 1441.53 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 54 | 1479.55 | 1492.92 | 1468.93 | 1416.46 | 1409.24 | 1385.38 | 1349.08 | 1383.28 | 1400.76 | 1409.05 |
| 55 | 1447.77 | 1461.33 | 1435.66 | 1380.26 | 1373.64 | 1348.90 | 1312.74 | 1347.78 | 1366.93 | 1375.27 |
| 56 | 1414.50 | 1428.62 | 1401.22 | 1344.14 | 1337.06 | 1311.29 | 1274.72 | 1310.50 | 1331.33 | 1336.46 |
| 57 | 1377.51 | 1393.72 | 1365.90 | 1307.10 | 1297.41 | 1270.90 | 1235.72 | 1272.39 | 1291.96 | 1300.86 |
| 58 | 1342.37 | 1358.50 | 1326.11 | 1269.45 | 1259.39 | 1232.08 | 1191.17 | 1229.33 | 1254.91 | 1264.79 |
| 59 | 1307.01 | 1322.34 | 1289.25 | 1225.93 | 1220.48 | 1192.10 | 1151.15 | 1189.77 | 1216.66 | 1227.84 |
| 60 | 1265.72 | 1279.94 | 1250.72 | 1186.79 | 1175.65 | 1146.25 | 1111.26 | 1150.12 | 1177.94 | 1186.00 |
| 61 | 1227.66 | 1241.54 | 1211.02 | 1147.51 | 1134.46 | 1104.83 | 1070.35 | 1109.63 | 1133.77 | 1147.56 |
| 62 | 1188.84 | 1202.31 | 1167.73 | 1107.25 | 1093.13 | 1063.08 | 1026.64 | 1068.30 | 1094.07 | 1109.02 |
| 63 | 1150.35 | 1162.98 | 1127.33 | 1062.89 | 1052.32 | 1021.80 | 985.08 | 1023.75 | 1053.57 | 1069.88 |
| 64 | 1110.47 | 1122.49 | 1086.19 | 1022.12 | 1009.77 | 979.39 | 943.79 | 982.38 | 1008.89 | 1027.43 |
| 65 | 1067.60 | 1077.29 | 1044.53 | 981.02 | 962.85 | 934.34 | 902.98 | 941.05 | 968.63 | 988.20 |
| 66 | 1027.95 | 1035.96 | 997.99 | 940.35 | 921.20 | 892.31 | 857.31 | 894.40 | 927.39 | 948.50 |
| 67 | 987.64 | 994.96 | 956.33 | 896.03 | 879.59 | 851.26 | 816.82 | 853.17 | 886.72 | 903.96 |
| 68 | 947.20 | 953.81 | 914.67 | 855.22 | 838.12 | 809.83 | 776.42 | 812.07 | 842.26 | 863.74 |
| 69 | 901.81 | 909.17 | 870.55 | 815.05 | 793.66 | 765.01 | 736.77 | 771.34 | 801.86 | 824.32 |
| 70 | 861.69 | 868.45 | 829.59 | 770.23 | 753.40 | 725.31 | 693.67 | 728.48 | 762.40 | 785.56 |
| 71 | 821.99 | 827.17 | 789.19 | 731.18 | 713.89 | 686.31 | 655.74 | 689.24 | 723.35 | 746.93 |
| 72 | 782.99 | 781.92 | 749.58 | 693.16 | 670.56 | 644.51 | 618.93 | 651.13 | 685.28 | 706.20 |
| 73 | 740.45 | 742.55 | 706.34 | 655.60 | 632.96 | 607.14 | 582.96 | 613.90 | 643.72 | 668.93 |
| 74 | 702.29 | 703.22 | 668.09 | 618.79 | 595.87 | 571.22 | 545.36 | 574.15 | 607.28 | 632.72 |
| 75 | 665.15 | 665.57 | 630.58 | 580.72 | 560.27 | 536.41 | 511.76 | 539.16 | 571.64 | 597.08 |
| 76 | 628.67 | 627.88 | 594.28 | 545.82 | 525.69 | 502.77 | 479.47 | 505.56 | 534.27 | 559.43 |
| 77 | 589.85 | 588.50 | 558.82 | 512.23 | 492.38 | 467.59 | 445.08 | 469.82 | 501.18 | 526.34 |
| 78 | 555.33 | 553.46 | 524.90 | 480.31 | 457.66 | 436.32 | 415.21 | 438.56 | 469.12 | 493.91 |
| 79 | 522.06 | 519.54 | 488.88 | 445.97 | 426.86 | 406.36 | 386.46 | 408.64 | 438.60 | 463.02 |
| 80 | 490.05 | 487.11 | 457.34 | 416.29 | 397.18 | 377.56 | 358.55 | 379.43 | 405.43 | 429.29 |
| 81 | 459.06 | 451.88 | 426.91 | 387.35 | 364.98 | 345.97 | 331.43 | 350.68 | 376.45 | 400.26 |
| 82 | 425.60 | 421.27 | 397.37 | 359.30 | 335.86 | 317.50 | 301.85 | 320.07 | 348.63 | 372.44 |
| 83 | 396.53 | 391.87 | 366.20 | 331.67 | 306.37 | 287.54 | 272.49 | 290.57 | 320.21 | 345.09 |
| 84 | 368.71 | 363.31 | 338.00 | 300.96 | 274.82 | 255.95 | 241.74 | 259.40 | 291.08 | 315.87 |
| 85 | 338.56 | 331.16 | 308.42 | 269.70 | 240.90 | 224.73 | 214.29 | 230.18 | 256.37 | 287.73 |
| 86 | 310.47 | 300.36 | 272.58 | 238.99 | 213.97 | 199.24 | 187.73 | 201.39 | 227.20 | 256.60 |
| 87 | 280.18 | 268.11 | 241.92 | 209.68 | 189.83 | 175.25 | 163.69 | 177.90 | 200.92 | 227.29 |
| 88 | 247.28 | 237.26 | 214.20 | 185.64 | 163.83 | 150.60 | 143.10 | 152.55 | 177.02 | 198.26 |
| 89 | 217.83 | 207.30 | 189.27 | 159.59 | 145.66 | 139.51 | 133.73 | 138.76 | 149.34 | 174.41 |
| 90 | 189.55 | 182.24 | 162.85 | 144.73 | 136.94 | 130.89 | 125.72 | 130.56 | 138.44 | 148.78 |
| 91 | 164.02 | 156.00 | 146.50 | 135.78 | 128.74 | 123.11 | 118.45 | 122.97 | 129.58 | 136.34 |
| 92 | 143.33 | 143.28 | 137.60 | 126.93 | 121.52 | 116.16 | 111.74 | 115.56 | 120.12 | 127.81 |
| 93 | 134.80 | 133.59 | 129.44 | 119.56 | 113.60 | 109.03 | 104.79 | 108.61 | 112.16 | 119.80 |
| 94 | 126.09 | 125.67 | 121.71 | 112.53 | 107.31 | 102.74 | 99.20 | 101.67 | 104.79 | 112.11 |
| 95 | 118.54 | 118.54 | 114.07 | 105.54 | 101.35 | 97.15 | 93.98 | 95.85 | 97.80 | 104.93 |
| 96 | 111.88 | 111.78 | 107.68 | 99.90 | 95.99 | 92.03 | 89.04 | 90.40 | 90.72 | 97.71 |
| 97 | 105.73 | 104.93 | 101.76 | 94.17 | 90.40 | 86.67 | 84.11 | 85.50 | 84.71 | 91.65 |
| 98 | 99.25 | 99.16 | 95.38 | 89.28 | 85.55 | 82.29 | 79.96 | 80.24 | 79.40 | 86.02 |
| 99 | 94.03 | 93.89 | 90.54 | 84.11 | 81.12 | 78.09 | 76.14 | 76.00 | 74.37 | 80.24 |
| 100 | 89.18 | 88.81 | 85.88 | 79.82 | 76.98 | 73.95 | 72.55 | 72.18 | 69.19 | 75.48 |
| 101 | 84.62 | 84.20 | 81.31 | 75.81 | 73.11 | 70.27 | 68.96 | 68.45 | 64.81 | 71.20 |
| 102 | 79.68 | 79.49 | 77.35 | 72.08 | 69.10 | 66.40 | 65.79 | 65.33 | 60.71 | 67.00 |
| 103 | 75.95 | 75.44 | 73.43 | 68.45 | 65.75 | 63.14 | 63.00 | 62.21 | 56.52 | 62.76 |
| 104 | 72.27 | 71.62 | 69.52 | 65.09 | 62.53 | 60.15 | 60.25 | 59.46 | 53.03 | 59.32 |
| 105 | 68.68 | 68.12 | 66.17 | 61.93 | 59.60 | 57.36 | 57.41 | 56.47 | 49.76 | 55.87 |
| 106 | 65.33 | 64.53 | 62.95 | 59.13 | 56.38 | 54.56 | 55.03 | 54.24 | 46.97 | 52.19 |
| 107 | 62.44 | 61.69 | 59.97 | 56.29 | 53.86 | 52.09 | 52.84 | 52.00 | 44.31 | 49.20 |
| 108 | 59.60 | 58.76 | 56.66 | 53.54 | 51.35 | 50.04 | 50.60 | 49.81 | 41.66 | 46.32 |
| 109 | 56.99 | 56.38 | 53.91 | 51.07 | 48.83 | 47.81 | 48.41 | 47.76 | 39.37 | 43.80 |

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| | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110 | 54.66 | 53.82 | 51.35 | 48.69 | 46.50 | 45.48 | 46.50 | 45.80 | 37.46 | 40.82 |
| 111 | 52.09 | 51.39 | 48.69 | 46.41 | 44.31 | 43.75 | 44.73 | 43.94 | 35.32 | 38.35 |
| 112 | 49.86 | 49.20 | 46.27 | 41.19 | 42.22 | 41.80 | 42.87 | 42.08 | 33.69 | 35.65 |
| 113 | 47.85 | 47.02 | 44.22 | 37.14 | 40.21 | 39.98 | 41.19 | 40.45 | 32.29 | 32.85 |
| 114 | 45.71 | 45.15 | 42.03 | 35.13 | 38.16 | 37.98 | 39.51 | 38.86 | 30.85 | 30.89 |
| 115 | 43.71 | 43.15 | 40.03 | 33.60 | 36.16 | 36.58 | 37.70 | 37.32 | 29.87 | 29.50 |
| 116 | 41.94 | 41.47 | 38.16 | 32.10 | 34.62 | 34.90 | 36.34 | 35.88 | 29.03 | 28.33 |
| 117 | 40.49 | 39.79 | 36.34 | 30.61 | 32.71 | 33.50 | 34.81 | 34.39 | 28.00 | 27.21 |
| 118 | 38.72 | 37.93 | 34.43 | 29.08 | 31.31 | 32.10 | 33.60 | 33.22 | 26.89 | 25.95 |
| 119 | 37.18 | 36.67 | 32.99 | 27.91 | 29.77 | 30.94 | 32.15 | 31.87 | 26.05 | 25.02 |
| 120 | 35.65 | 35.23 | 31.31 | 26.79 | 28.38 | 29.82 | 30.75 | 30.66 | 25.25 | 24.37 |
| 121 | 34.29 | 34.06 | 29.96 | 25.44 | 26.84 | 28.70 | 29.77 | 29.50 | 24.51 | 23.53 |
| 122 | 32.99 | 32.71 | 28.70 | 24.42 | 26.00 | 27.58 | 28.52 | 28.56 | 23.72 | 22.74 |
| 123 | 31.59 | 31.31 | 27.49 | 23.44 | 24.70 | 26.51 | 27.58 | 27.44 | 23.11 | 22.18 |
| 124 | 30.33 | 30.24 | 26.56 | 22.37 | 23.58 | 25.53 | 26.47 | 26.51 | 22.46 | 21.48 |
| 125 | 29.22 | 28.98 | 25.44 | 21.67 | 22.74 | 24.74 | 25.81 | 25.91 | 21.99 | 20.83 |
| 126 | 28.14 | 28.05 | 24.56 | 20.69 | 21.99 | 23.86 | 24.56 | 24.88 | 21.29 | 20.27 |
| 127 | 27.03 | 26.93 | 23.62 | 19.94 | 21.06 | 23.25 | 23.67 | 24.09 | 20.87 | 19.80 |
| 128 | 26.05 | 26.23 | 22.93 | 19.24 | 20.18 | 22.41 | 22.79 | 23.25 | 20.32 | 19.29 |
| 129 | 25.16 | 25.25 | 22.18 | 18.55 | 19.62 | 21.53 | 20.60 | 22.83 | 19.90 | 18.82 |
| 130 | 24.37 | 24.42 | 21.39 | 17.80 | 19.01 | 21.01 | 19.99 | 22.04 | 19.48 | 18.50 |
| 131 | 23.02 | 23.53 | 20.74 | 17.57 | 18.50 | 20.22 | 19.01 | 21.39 | 19.15 | 18.22 |
| 132 | 21.01 | 22.79 | 20.41 | 17.24 | 17.94 | 19.80 | 18.64 | 20.74 | 18.82 | 17.89 |
| 133 | 20.36 | 22.09 | 19.66 | 16.87 | 17.80 | 19.29 | 18.31 | 20.18 | 18.45 | 17.61 |
| 134 | 19.66 | 21.29 | 19.29 | 16.54 | 17.43 | 18.73 | 18.17 | 19.62 | 18.36 | 17.29 |
| 135 | 19.24 | 20.69 | 19.01 | 16.12 | 17.24 | 18.22 | 17.75 | 19.10 | 18.08 | 16.96 |
| 136 | 18.96 | 20.22 | 18.78 | 16.03 | 17.01 | 17.85 | 17.33 | 18.78 | 17.80 | 17.05 |
| 137 | 18.22 | 19.66 | 18.31 | 15.98 | 16.77 | 17.33 | 17.10 | 18.27 | 17.52 | 16.77 |
| 138 | 17.80 | 19.15 | 18.13 | 15.70 | 16.49 | 17.05 | 17.05 | 17.94 | 17.24 | 16.63 |
| 139 | 17.52 | 18.68 | 17.75 | 15.56 | 16.54 | 16.73 | 16.87 | 17.57 | 17.19 | 16.49 |
| 140 | 17.47 | 18.17 | 17.57 | 15.47 | 16.26 | 16.49 | 16.87 | 17.29 | 17.10 | 16.45 |
| 141 | 17.19 | 17.71 | 17.47 | 15.61 | 16.17 | 16.45 | 16.77 | 16.91 | 17.19 | 16.63 |
| 142 | 16.96 | 17.52 | 17.47 | 15.56 | 16.26 | 16.26 | 16.82 | 16.91 | 17.10 | 16.45 |
| 143 | 16.68 | 17.33 | 17.10 | 15.66 | 16.22 | 16.26 | 16.77 | 16.82 | 16.82 | 16.54 |
| 144 | 16.45 | 16.91 | 17.05 | 15.89 | 16.40 | 16.22 | 16.77 | 16.77 | 16.96 | 16.54 |
| 145 | 16.31 | 16.91 | 17.10 | 15.89 | 16.26 | 16.45 | 16.87 | 16.82 | 16.87 | 16.63 |
| 146 | 16.31 | 16.49 | 17.19 | 16.08 | 16.68 | 16.54 | 17.10 | 17.01 | 16.96 | 16.96 |
| 147 | 16.36 | 16.54 | 17.01 | 16.31 | 16.82 | 16.63 | 17.19 | 17.10 | 17.19 | 17.10 |
| 148 | 16.49 | 16.54 | 17.15 | 16.45 | 16.82 | 16.77 | 17.52 | 17.29 | 17.43 | 17.33 |
| 149 | 16.68 | 16.77 | 17.29 | 16.68 | 16.96 | 17.10 | 17.61 | 17.47 | 17.52 | 17.43 |
| 150 | 16.82 | 16.82 | 17.47 | 16.87 | 17.05 | 17.15 | 17.61 | 17.57 | 17.61 | 17.47 |
| 151 | 17.15 | 16.87 | 17.71 | 16.91 | 17.19 | 17.24 | 17.94 | 17.75 | 17.80 | 17.71 |
| 152 | 17.15 | 17.24 | 17.75 | 17.15 | 17.43 | 17.43 | 18.03 | 17.89 | 17.80 | 17.75 |
| 153 | 17.15 | 17.47 | 17.85 | 17.24 | 17.66 | 17.61 | 18.08 | 17.94 | 17.94 | 17.89 |
| 154 | 17.43 | 17.57 | 18.08 | 17.33 | 17.80 | 17.71 | 18.13 | 18.03 | 18.17 | 17.99 |
| 155 | 17.57 | 17.75 | 18.08 | 17.52 | 18.08 | 17.89 | 18.36 | 18.27 | 18.31 | 18.17 |
| 156 | 17.66 | 17.80 | 18.31 | 17.66 | 18.03 | 17.99 | 18.50 | 18.31 | 18.59 | 18.22 |
| 157 | 17.94 | 17.94 | 18.17 | 17.71 | 18.22 | 18.08 | 18.50 | 18.31 | 18.59 | 18.36 |
| 158 | 18.03 | 18.03 | 18.45 | 17.89 | 18.41 | 18.17 | 18.82 | 18.55 | 18.73 | 18.55 |
| 159 | 18.17 | 18.17 | 18.64 | 17.89 | 18.50 | 18.31 | 18.87 | 18.82 | 18.68 | 18.64 |
| 160 | 18.27 | 18.36 | 18.78 | 18.17 | 18.64 | 18.36 | 18.68 | 18.92 | 18.73 | 18.64 |
| 161 | 18.45 | 18.41 | 18.92 | 18.27 | 18.82 | 18.55 | 18.78 | 19.06 | 18.92 | 18.82 |
| 162 | 18.55 | 18.59 | 18.92 | 18.31 | 18.78 | 18.68 | 18.96 | 19.20 | 19.06 | 18.96 |
| 163 | 18.59 | 18.68 | 19.29 | 18.50 | 18.82 | 18.78 | 19.06 | 19.43 | 19.20 | 19.10 |
| 164 | 18.78 | 18.82 | 19.34 | 18.36 | 18.96 | 18.78 | 19.10 | 19.34 | 19.24 | 19.29 |
| 165 | 19.01 | 18.82 | 19.48 | 18.64 | 18.82 | 18.82 | 19.20 | 19.52 | 19.38 | 19.29 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CPYRA12-LED60DMVXX40.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 166 | 18.96 | 19.01 | 19.48 | 18.68 | 18.82 | 19.15 | 19.38 | 19.57 | 19.34 | 19.24 |
| 167 | 19.10 | 19.20 | 19.66 | 18.73 | 19.15 | 19.10 | 19.34 | 19.52 | 19.34 | 19.29 |
| 168 | 19.34 | 19.29 | 19.71 | 18.92 | 19.29 | 19.15 | 19.43 | 19.66 | 19.43 | 19.29 |
| 169 | 19.34 | 19.38 | 19.76 | 18.92 | 19.38 | 19.38 | 19.57 | 19.85 | 19.66 | 19.57 |
| 170 | 19.48 | 19.48 | 19.85 | 19.15 | 19.43 | 19.52 | 19.76 | 19.94 | 19.80 | 19.71 |
| 171 | 19.66 | 19.62 | 19.94 | 19.34 | 19.52 | 19.52 | 20.04 | 19.90 | 19.90 | 19.94 |
| 172 | 19.76 | 19.66 | 20.13 | 19.38 | 19.62 | 19.57 | 20.08 | 19.90 | 20.08 | 20.04 |
| 173 | 19.76 | 19.71 | 20.08 | 19.48 | 19.85 | 19.71 | 20.36 | 19.80 | 20.22 | 19.99 |
| 174 | 19.94 | 19.71 | 20.22 | 19.52 | 19.90 | 19.62 | 20.18 | 19.90 | 20.22 | 20.18 |
| 175 | 20.04 | 19.85 | 20.36 | 19.76 | 19.94 | 19.76 | 20.32 | 20.04 | 20.22 | 20.13 |
| 176 | 20.08 | 20.13 | 20.27 | 19.80 | 19.90 | 19.80 | 20.32 | 20.13 | 20.18 | 20.04 |
| 177 | 20.27 | 20.22 | 20.32 | 19.99 | 19.94 | 19.71 | 20.27 | 20.04 | 19.80 | 19.90 |
| 178 | 20.18 | 20.04 | 20.41 | 19.85 | 19.94 | 19.90 | 20.36 | 20.08 | 20.04 | 20.13 |
| 179 | 20.27 | 19.99 | 20.36 | 19.99 | 20.04 | 19.90 | 20.27 | 20.08 | 19.99 | 20.13 |
| 180 | 20.27 | 19.99 | 20.32 | 20.04 | 19.99 | 19.85 | 20.13 | 20.04 | 20.04 | 20.22 |

Vert. Horizontal Angles

| | <u>300</u> | <u>330</u> | <u>360</u> |
|----|------------|------------|------------|
| 0 | 2104.03 | 2103.75 | 2107.61 |
| 1 | 2103.51 | 2103.28 | 2106.78 |
| 2 | 2101.09 | 2100.02 | 2105.89 |
| 3 | 2100.81 | 2099.65 | 2105.84 |
| 4 | 2100.25 | 2099.51 | 2103.19 |
| 5 | 2099.46 | 2099.46 | 2102.91 |
| 6 | 2097.88 | 2101.46 | 2102.44 |
| 7 | 2098.20 | 2099.97 | 2101.09 |
| 8 | 2094.75 | 2097.27 | 2098.67 |
| 9 | 2090.09 | 2093.36 | 2096.71 |
| 10 | 2084.83 | 2088.37 | 2091.86 |
| 11 | 2079.33 | 2083.38 | 2087.16 |
| 12 | 2070.06 | 2075.70 | 2081.47 |
| 13 | 2064.23 | 2069.78 | 2075.42 |
| 14 | 2058.22 | 2063.95 | 2068.47 |
| 15 | 2052.54 | 2058.22 | 2062.42 |
| 16 | 2048.16 | 2051.79 | 2057.24 |
| 17 | 2043.03 | 2046.62 | 2051.98 |
| 18 | 2037.86 | 2041.40 | 2045.08 |
| 19 | 2032.59 | 2036.09 | 2039.72 |
| 20 | 2027.14 | 2031.15 | 2034.37 |
| 21 | 2021.55 | 2027.94 | 2029.75 |
| 22 | 2016.33 | 2023.00 | 2024.58 |
| 23 | 2011.53 | 2018.01 | 2022.11 |
| 24 | 2006.08 | 2013.02 | 2016.80 |
| 25 | 2000.82 | 2003.66 | 2011.39 |
| 26 | 1992.43 | 1998.11 | 2005.52 |
| 27 | 1986.05 | 1991.96 | 1996.25 |
| 28 | 1979.38 | 1985.25 | 1989.54 |
| 29 | 1973.74 | 1980.36 | 1982.97 |
| 30 | 1965.68 | 1972.35 | 1975.42 |
| 31 | 1956.50 | 1963.91 | 1967.64 |
| 32 | 1946.49 | 1953.94 | 1958.00 |
| 33 | 1935.40 | 1943.78 | 1947.46 |
| 34 | 1920.21 | 1931.02 | 1936.28 |
| 35 | 1907.30 | 1919.09 | 1923.98 |
| 36 | 1893.83 | 1906.60 | 1909.58 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CPYRA12-LED60DMVXX40.IES

CANDELA TABULATION - (Cont.)

| | | | |
|----|---------|---------|---------|
| 37 | 1879.02 | 1892.34 | 1895.37 |
| 38 | 1862.29 | 1873.70 | 1879.62 |
| 39 | 1844.77 | 1857.16 | 1863.13 |
| 40 | 1826.55 | 1839.60 | 1841.97 |
| 41 | 1806.09 | 1820.82 | 1822.59 |
| 42 | 1786.06 | 1801.43 | 1802.13 |
| 43 | 1764.67 | 1780.65 | 1780.61 |
| 44 | 1741.98 | 1758.71 | 1758.19 |
| 45 | 1718.77 | 1736.06 | 1735.22 |
| 46 | 1690.82 | 1707.78 | 1711.22 |
| 47 | 1666.26 | 1683.97 | 1686.30 |
| 48 | 1641.19 | 1658.94 | 1656.52 |
| 49 | 1615.28 | 1633.04 | 1629.36 |
| 50 | 1587.37 | 1605.17 | 1601.45 |
| 51 | 1559.37 | 1576.94 | 1572.65 |
| 52 | 1530.34 | 1548.65 | 1542.97 |
| 53 | 1501.03 | 1519.44 | 1510.44 |
| 54 | 1465.67 | 1486.45 | 1479.55 |
| 55 | 1434.21 | 1455.04 | 1447.77 |
| 56 | 1400.80 | 1422.05 | 1414.50 |
| 57 | 1366.60 | 1387.71 | 1377.51 |
| 58 | 1328.07 | 1347.64 | 1342.37 |
| 59 | 1291.86 | 1311.76 | 1307.01 |
| 60 | 1254.82 | 1275.14 | 1265.72 |
| 61 | 1216.98 | 1237.39 | 1227.66 |
| 62 | 1175.10 | 1196.81 | 1188.84 |
| 63 | 1135.86 | 1157.39 | 1150.35 |
| 64 | 1096.16 | 1117.69 | 1110.47 |
| 65 | 1056.46 | 1077.99 | 1067.60 |
| 66 | 1010.47 | 1031.86 | 1027.95 |
| 67 | 969.89 | 991.23 | 987.64 |
| 68 | 928.84 | 949.95 | 947.20 |
| 69 | 888.07 | 908.85 | 901.81 |
| 70 | 844.69 | 864.58 | 861.69 |
| 71 | 804.24 | 824.14 | 821.99 |
| 72 | 765.10 | 784.86 | 782.99 |
| 73 | 726.15 | 745.72 | 740.45 |
| 74 | 683.98 | 704.34 | 702.29 |
| 75 | 646.37 | 666.83 | 665.15 |
| 76 | 610.17 | 630.02 | 628.67 |
| 77 | 571.03 | 589.71 | 589.85 |
| 78 | 536.64 | 555.33 | 555.33 |
| 79 | 503.47 | 521.92 | 522.06 |
| 80 | 471.18 | 489.02 | 490.05 |
| 81 | 440.47 | 457.80 | 459.06 |
| 82 | 408.08 | 425.28 | 425.60 |
| 83 | 379.06 | 395.83 | 396.53 |
| 84 | 350.87 | 367.36 | 368.71 |
| 85 | 322.30 | 338.94 | 338.56 |
| 86 | 288.33 | 306.37 | 310.47 |
| 87 | 256.04 | 274.59 | 280.18 |
| 88 | 226.45 | 242.86 | 247.28 |
| 89 | 197.61 | 214.71 | 217.83 |
| 90 | 172.45 | 186.80 | 189.55 |
| 91 | 147.29 | 160.52 | 164.02 |
| 92 | 137.41 | 142.96 | 143.33 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CPYRA12-LED60DMVXX40.IES

CANDELA TABULATION - (Cont.)

| | | | |
|-----|--------|--------|--------|
| 93 | 128.65 | 134.20 | 134.80 |
| 94 | 119.52 | 125.53 | 126.09 |
| 95 | 111.74 | 118.31 | 118.54 |
| 96 | 104.09 | 111.46 | 111.88 |
| 97 | 97.06 | 105.07 | 105.73 |
| 98 | 90.12 | 98.46 | 99.25 |
| 99 | 84.11 | 93.05 | 94.03 |
| 100 | 78.56 | 87.97 | 89.18 |
| 101 | 73.16 | 83.03 | 84.62 |
| 102 | 68.40 | 78.89 | 79.68 |
| 103 | 63.93 | 75.07 | 75.95 |
| 104 | 60.02 | 71.38 | 72.27 |
| 105 | 55.91 | 67.61 | 68.68 |
| 106 | 52.65 | 64.35 | 65.33 |
| 107 | 49.72 | 61.46 | 62.44 |
| 108 | 47.02 | 58.80 | 59.60 |
| 109 | 44.45 | 55.96 | 56.99 |
| 110 | 41.98 | 53.58 | 54.66 |
| 111 | 39.84 | 51.35 | 52.09 |
| 112 | 37.84 | 49.07 | 49.86 |
| 113 | 36.25 | 46.97 | 47.85 |
| 114 | 34.85 | 45.01 | 45.71 |
| 115 | 33.55 | 42.96 | 43.71 |
| 116 | 32.34 | 41.38 | 41.94 |
| 117 | 31.36 | 39.70 | 40.49 |
| 118 | 30.29 | 38.30 | 38.72 |
| 119 | 29.31 | 36.62 | 37.18 |
| 120 | 28.42 | 35.27 | 35.65 |
| 121 | 27.49 | 34.01 | 34.29 |
| 122 | 26.70 | 32.80 | 32.99 |
| 123 | 25.72 | 31.41 | 31.59 |
| 124 | 25.16 | 30.19 | 30.33 |
| 125 | 24.14 | 29.12 | 29.22 |
| 126 | 23.58 | 27.91 | 28.14 |
| 127 | 22.97 | 27.07 | 27.03 |
| 128 | 22.51 | 26.19 | 26.05 |
| 129 | 21.85 | 25.30 | 25.16 |
| 130 | 21.20 | 24.28 | 24.37 |
| 131 | 20.74 | 23.58 | 23.02 |
| 132 | 20.36 | 22.79 | 21.01 |
| 133 | 19.85 | 22.23 | 20.36 |
| 134 | 19.48 | 21.57 | 19.66 |
| 135 | 19.10 | 20.87 | 19.24 |
| 136 | 18.68 | 20.32 | 18.96 |
| 137 | 18.36 | 19.71 | 18.22 |
| 138 | 17.99 | 19.29 | 17.80 |
| 139 | 17.75 | 18.73 | 17.52 |
| 140 | 17.57 | 18.41 | 17.47 |
| 141 | 17.19 | 17.94 | 17.19 |
| 142 | 17.05 | 17.71 | 16.96 |
| 143 | 16.87 | 17.47 | 16.68 |
| 144 | 16.73 | 17.29 | 16.45 |
| 145 | 16.59 | 17.05 | 16.31 |
| 146 | 16.63 | 16.87 | 16.31 |
| 147 | 16.59 | 17.10 | 16.36 |
| 148 | 16.68 | 17.05 | 16.49 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CPYRA12-LED60DMVXX40.IES

CANDELA TABULATION - (Cont.)

| | | | |
|------------|-------|-------|-------|
| 149 | 16.73 | 17.05 | 16.68 |
| 150 | 16.91 | 17.24 | 16.82 |
| 151 | 17.15 | 17.33 | 17.15 |
| 152 | 17.24 | 17.52 | 17.15 |
| 153 | 17.24 | 17.61 | 17.15 |
| 154 | 17.43 | 17.61 | 17.43 |
| 155 | 17.57 | 17.85 | 17.57 |
| 156 | 17.52 | 17.99 | 17.66 |
| 157 | 17.89 | 18.08 | 17.94 |
| 158 | 18.08 | 18.31 | 18.03 |
| 159 | 18.22 | 18.55 | 18.17 |
| 160 | 18.45 | 18.50 | 18.27 |
| 161 | 18.55 | 18.64 | 18.45 |
| 162 | 18.59 | 18.68 | 18.55 |
| 163 | 18.78 | 18.73 | 18.59 |
| 164 | 18.96 | 18.87 | 18.78 |
| 165 | 18.92 | 18.96 | 19.01 |
| 166 | 18.96 | 19.29 | 18.96 |
| 167 | 19.10 | 19.48 | 19.10 |
| 168 | 19.20 | 19.57 | 19.34 |
| 169 | 19.34 | 19.62 | 19.34 |
| 170 | 19.34 | 19.71 | 19.48 |
| 171 | 19.62 | 19.76 | 19.66 |
| 172 | 19.66 | 19.85 | 19.76 |
| 173 | 19.76 | 20.08 | 19.76 |
| 174 | 19.71 | 19.94 | 19.94 |
| 175 | 19.85 | 20.13 | 20.04 |
| 176 | 19.90 | 20.27 | 20.08 |
| 177 | 19.99 | 20.36 | 20.27 |
| 178 | 20.04 | 20.32 | 20.18 |
| 179 | 19.90 | 20.36 | 20.27 |
| 180 | 20.04 | 20.08 | 20.27 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CPYRA12-LED60DMVXX40.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|--------|--------|
| 0-20 | 780.41 | 10.20 | 10.20 |
| 0-30 | 1704.97 | 22.20 | 22.20 |
| 0-40 | 2894.09 | 37.80 | 37.80 |
| 0-60 | 5445.17 | 71.10 | 71.10 |
| 0-80 | 7069.51 | 92.30 | 92.30 |
| 0-90 | 7378.07 | 96.30 | 96.30 |
| 10-90 | 7178.47 | 93.70 | 93.70 |
| 20-40 | 2113.68 | 27.60 | 27.60 |
| 20-50 | 3420.63 | 44.60 | 44.60 |
| 40-70 | 3540.21 | 46.20 | 46.20 |
| 60-80 | 1624.34 | 21.20 | 21.20 |
| 70-80 | 635.21 | 8.30 | 8.30 |
| 80-90 | 308.57 | 4.00 | 4.00 |
| 90-110 | 184.30 | 2.40 | 2.40 |
| 90-120 | 221.76 | 2.90 | 2.90 |
| 90-130 | 244.48 | 3.20 | 3.20 |
| 90-150 | 269.61 | 3.50 | 3.50 |
| 90-180 | 285.17 | 3.70 | 3.70 |
| 110-180 | 100.87 | 1.30 | 1.30 |
| 0-180 | 7663.25 | 100.00 | 100.00 |

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 199.60 |
| 10-20 | 580.81 |
| 20-30 | 924.56 |
| 30-40 | 1189.11 |
| 40-50 | 1306.95 |
| 50-60 | 1244.13 |
| 60-70 | 989.13 |
| 70-80 | 635.21 |
| 80-90 | 308.57 |
| 90-100 | 119.24 |
| 100-110 | 65.07 |
| 110-120 | 37.46 |
| 120-130 | 22.72 |
| 130-140 | 14.54 |
| 140-150 | 10.59 |
| 150-160 | 8.27 |
| 160-170 | 5.39 |
| 170-180 | 1.90 |

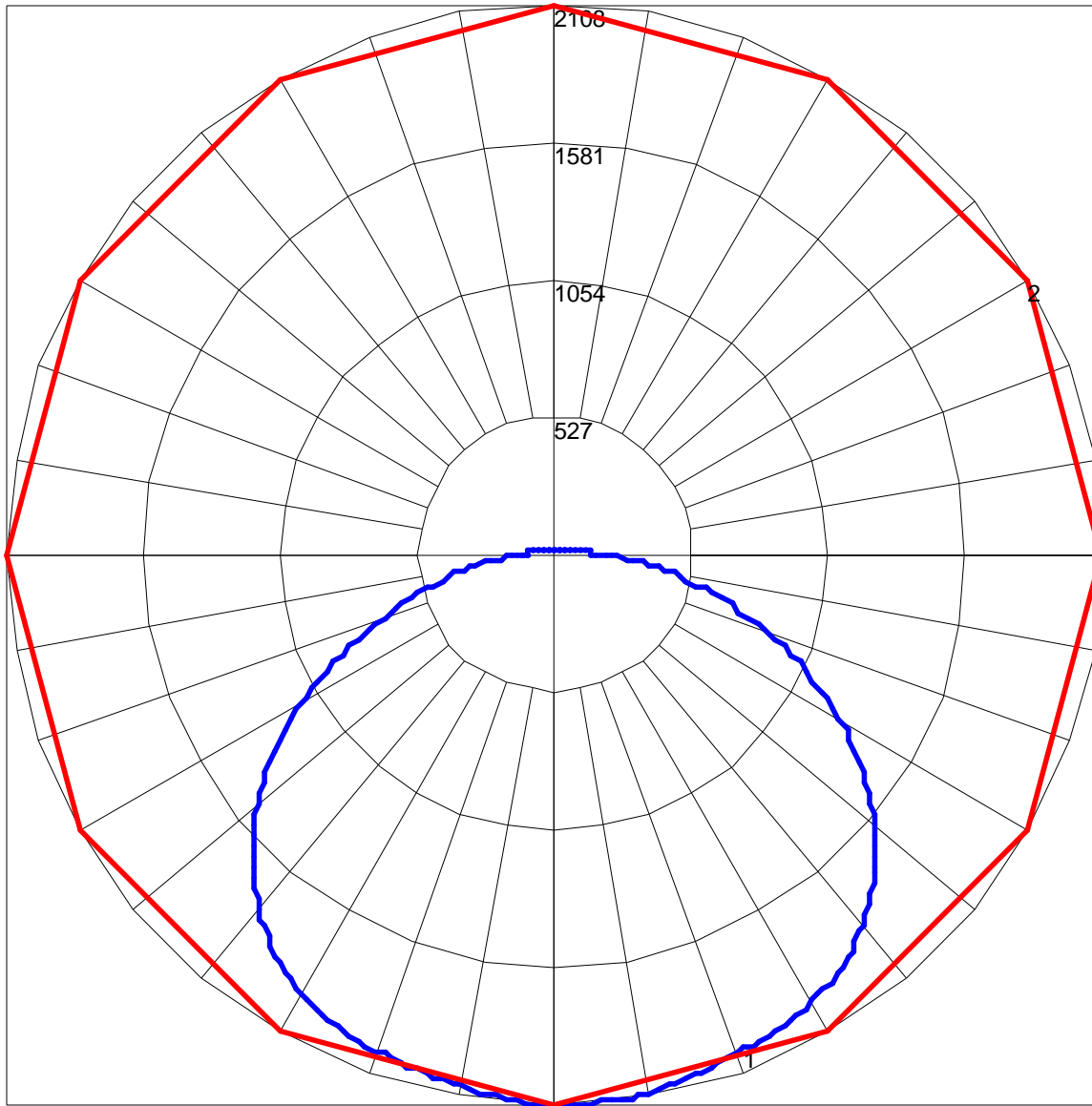
IES INDOOR REPORT
PHOTOMETRIC FILENAME : CPYRA12-LED60DMVXX40.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC RW | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 96 |
| 1 | 107 | 101 | 96 | 92 | 103 | 99 | 94 | 90 | 94 | 90 | 87 | 89 | 86 | 83 | 85 | 82 | 80 | 78 |
| 2 | 96 | 87 | 80 | 74 | 93 | 85 | 78 | 72 | 81 | 75 | 70 | 77 | 72 | 68 | 73 | 69 | 66 | 63 |
| 3 | 87 | 76 | 67 | 60 | 84 | 74 | 66 | 60 | 71 | 64 | 58 | 67 | 61 | 56 | 64 | 59 | 55 | 53 |
| 4 | 80 | 67 | 58 | 50 | 77 | 65 | 57 | 50 | 62 | 55 | 49 | 59 | 53 | 48 | 57 | 51 | 47 | 44 |
| 5 | 73 | 59 | 50 | 43 | 70 | 58 | 49 | 43 | 55 | 48 | 42 | 53 | 46 | 41 | 51 | 45 | 40 | 38 |
| 6 | 67 | 53 | 44 | 37 | 65 | 52 | 43 | 37 | 50 | 42 | 36 | 48 | 41 | 36 | 46 | 40 | 35 | 33 |
| 7 | 62 | 48 | 39 | 33 | 60 | 47 | 38 | 32 | 45 | 37 | 32 | 43 | 36 | 31 | 42 | 35 | 31 | 29 |
| 8 | 58 | 44 | 35 | 29 | 56 | 43 | 34 | 29 | 41 | 34 | 28 | 40 | 33 | 28 | 38 | 32 | 27 | 25 |
| 9 | 54 | 40 | 31 | 26 | 52 | 39 | 31 | 26 | 38 | 30 | 25 | 36 | 30 | 25 | 35 | 29 | 25 | 23 |
| 10 | 50 | 37 | 29 | 23 | 49 | 36 | 28 | 23 | 35 | 28 | 23 | 34 | 27 | 22 | 32 | 26 | 22 | 20 |

POLAR GRAPH



Maximum Candela = 2107.61 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)