

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P141334

Luminaire Tested: **CEM-F04-LED-E-U-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P141334
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33692)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CEM-F04-LED-E-U-SL4-7030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8515.5 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

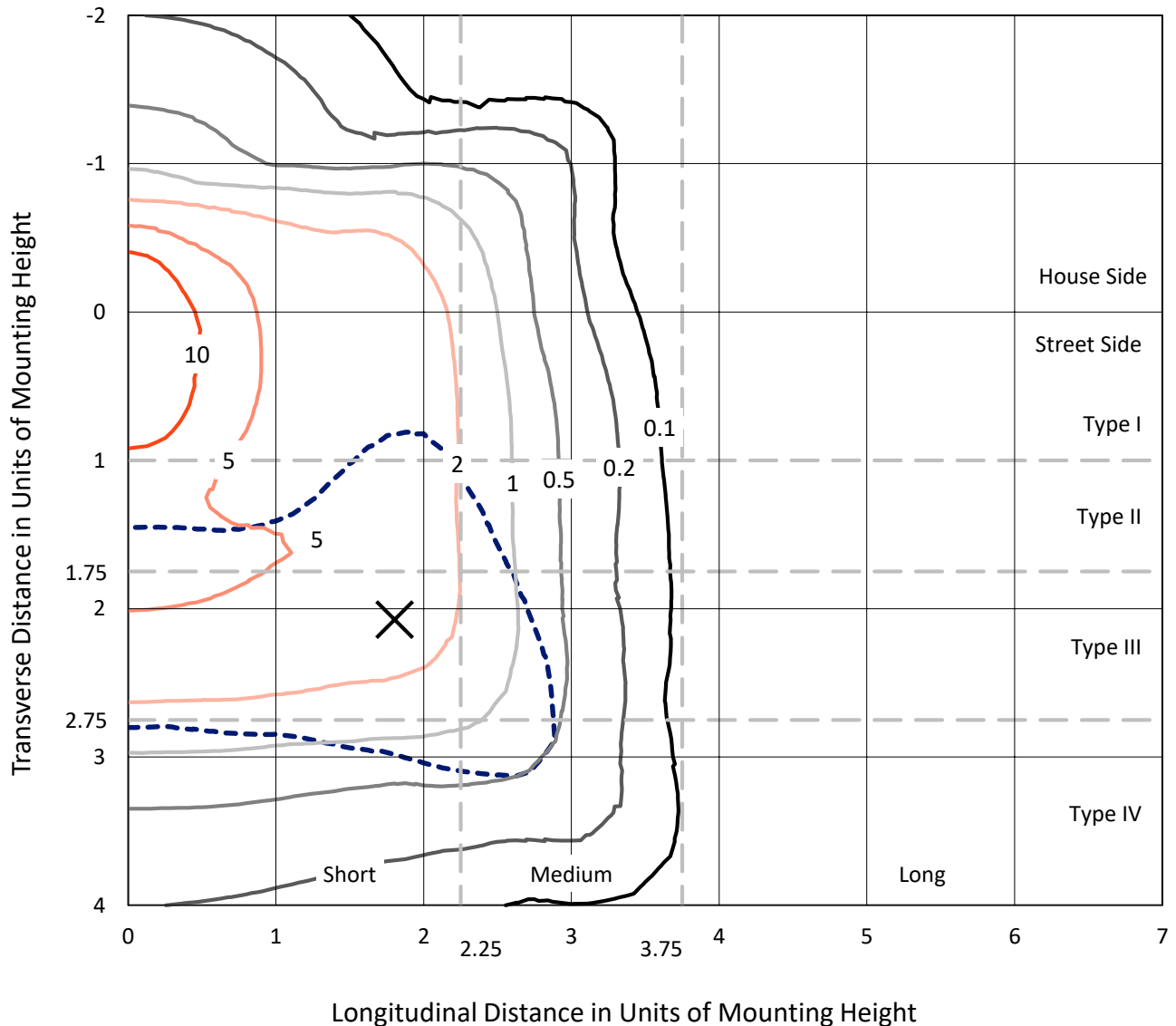


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

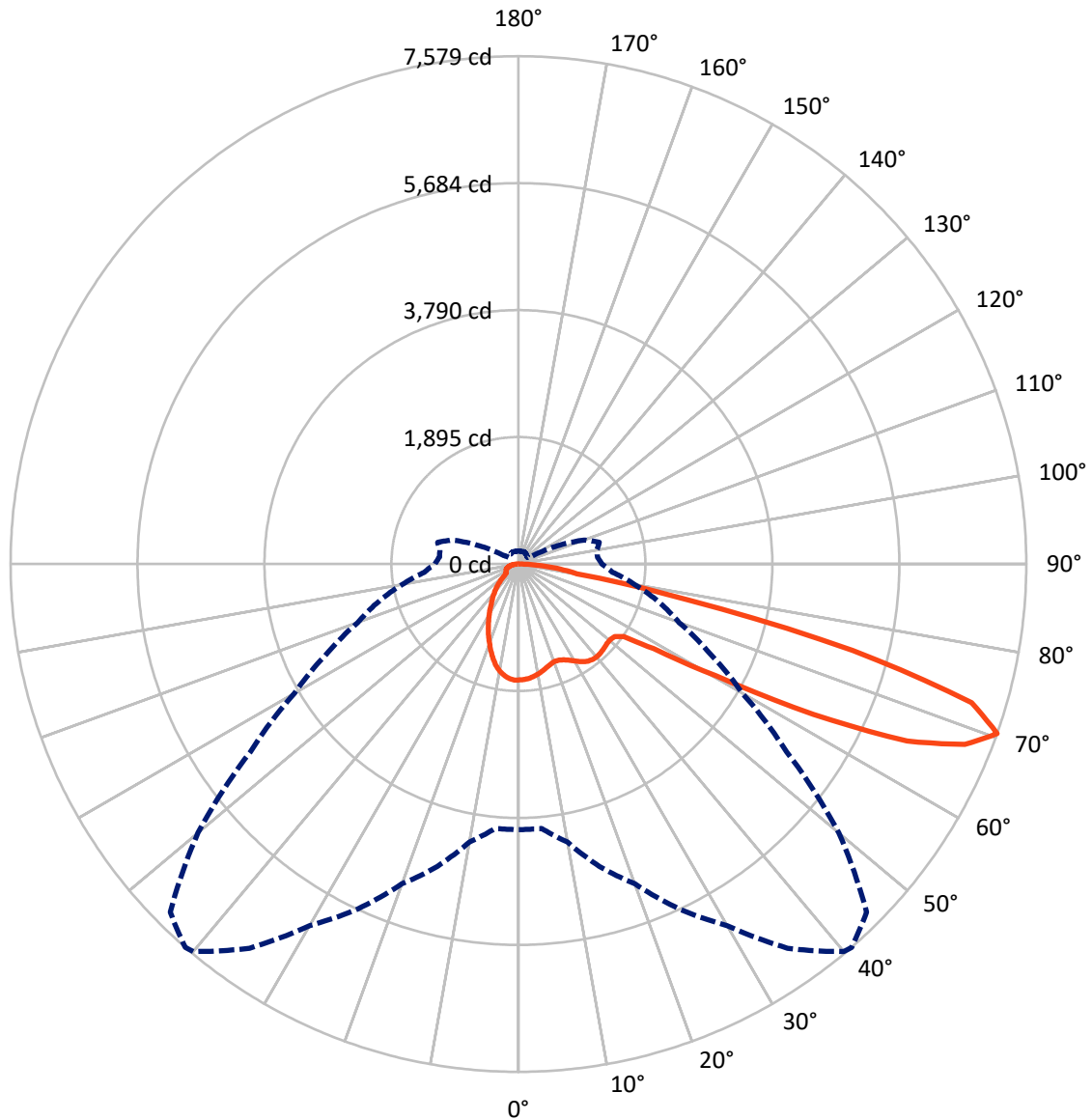


Based on 10 foot mounting height. Maximum calculated value = 17.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 41-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1827.0 | 0.0 | 1827.0 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| Street Side | Lumens | 6688.5 | 0.0 | 6688.5 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| Total | Lumens | 8515.5 | 0.0 | 8515.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 161.0 | 1.9 |
| 10°-20° | 431.5 | 5.1 |
| 20°-30° | 623.9 | 7.3 |
| 30°-40° | 794.1 | 9.3 |
| 40°-50° | 935.8 | 11.0 |
| 50°-60° | 1431.8 | 16.8 |
| 60°-70° | 2661.2 | 31.3 |
| 70°-80° | 1284.4 | 15.1 |
| 80°-90° | 191.8 | 2.3 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 8515.5 | 100.0 |
| 0°-180° | 8515.5 | 100.0 |

Coefficient of Utilization



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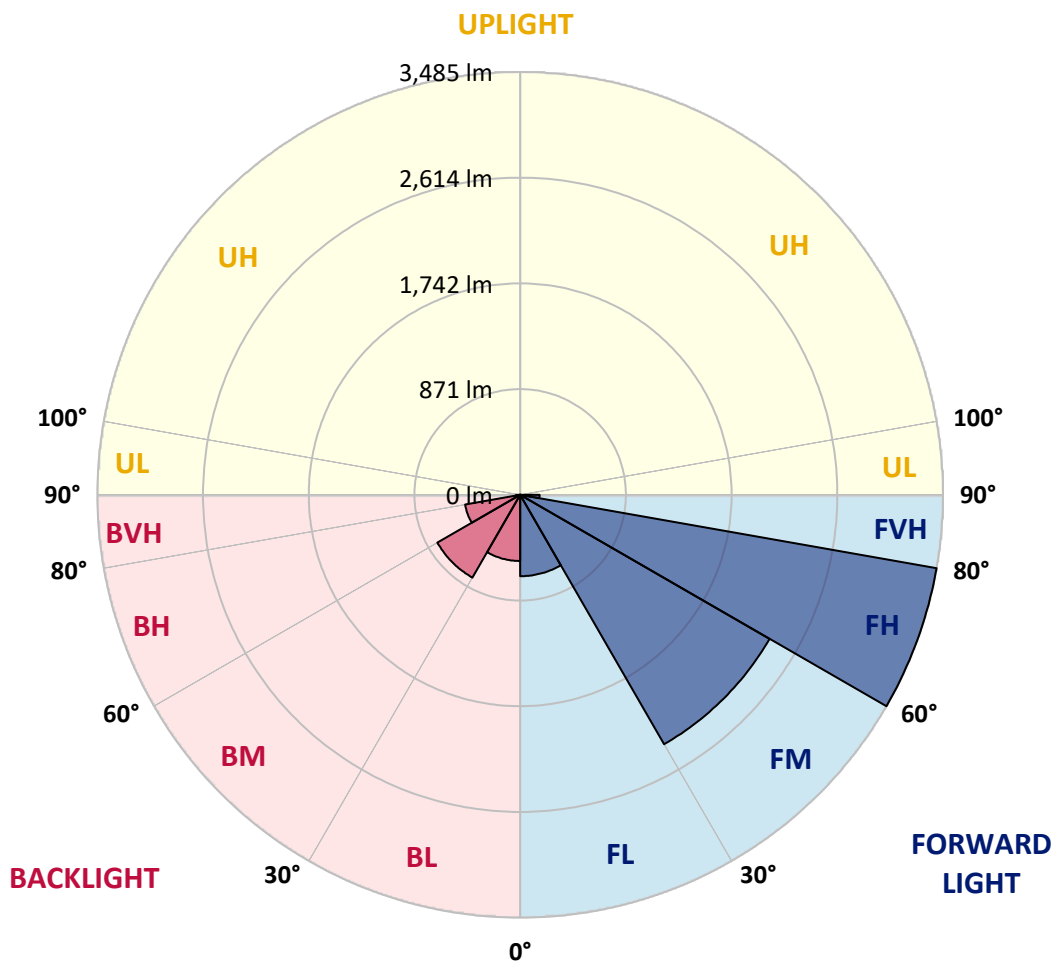
CATALOG NUMBER: CEM-F04-LED-E-U-SL4-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 670.7 | 7.9 | | | |
| FM (30°-60°) | 2373.4 | 27.9 | | | |
| FH (60°-80°) | 3484.9 | 40.9 | | | G2/5000 |
| FVH (80°-90°) | 159.5 | 1.9 | | | G2/225 |
| BL (0°-30°) | 545.7 | 6.4 | B2/1000 | | |
| BM (30°-60°) | 788.2 | 9.3 | B1/1000 | | |
| BH (60°-80°) | 460.7 | 5.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 32.4 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 41° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1730.2 | 1730.2 | 1730.2 | 1730.2 | 1730.2 | 1730.2 | 1730.2 | 1730.2 | 1730.2 | 1730.2 | 1730.2 |
| 2.5° | 1730.2 | 1732.2 | 1731.2 | 1729.2 | 1727.1 | 1728.2 | 1727.1 | 1726.1 | 1726.1 | 1725.1 | 1724.1 |
| 5° | 1722.1 | 1726.1 | 1723.1 | 1721.1 | 1718.1 | 1718.1 | 1717.1 | 1715.1 | 1713.1 | 1712.1 | 1710.1 |
| 7.5° | 1705.0 | 1709.1 | 1707.0 | 1705.0 | 1702.0 | 1700.0 | 1696.0 | 1694.0 | 1692.0 | 1691.0 | 1687.9 |
| 10° | 1681.9 | 1683.9 | 1681.9 | 1677.9 | 1675.9 | 1674.9 | 1672.9 | 1668.8 | 1664.8 | 1662.8 | 1659.8 |
| 12.5° | 1651.7 | 1652.8 | 1650.7 | 1648.7 | 1645.7 | 1645.7 | 1642.7 | 1639.7 | 1633.7 | 1631.6 | 1624.6 |
| 15° | 1625.6 | 1622.6 | 1620.6 | 1619.6 | 1618.6 | 1613.5 | 1614.6 | 1609.5 | 1599.5 | 1596.5 | 1588.4 |
| 17.5° | 1618.6 | 1615.6 | 1614.6 | 1611.5 | 1609.5 | 1603.5 | 1597.5 | 1587.4 | 1570.3 | 1567.3 | 1555.2 |
| 20° | 1638.7 | 1638.7 | 1635.7 | 1633.7 | 1630.6 | 1619.6 | 1606.5 | 1587.4 | 1556.2 | 1549.2 | 1534.1 |
| 22.5° | 1686.9 | 1681.9 | 1679.9 | 1679.9 | 1678.9 | 1662.8 | 1638.7 | 1608.5 | 1567.3 | 1558.3 | 1532.1 |
| 25° | 1762.3 | 1753.3 | 1756.3 | 1755.3 | 1753.3 | 1730.2 | 1695.0 | 1651.7 | 1595.5 | 1583.4 | 1549.2 |
| 27.5° | 1851.8 | 1853.8 | 1852.8 | 1848.8 | 1842.8 | 1817.6 | 1767.4 | 1709.1 | 1638.7 | 1626.6 | 1582.4 |
| 30° | 1945.3 | 1947.3 | 1953.3 | 1950.3 | 1946.3 | 1908.1 | 1845.8 | 1782.4 | 1697.0 | 1680.9 | 1626.6 |
| 32.5° | 2053.9 | 2060.9 | 2065.9 | 2066.9 | 2050.9 | 1998.6 | 1925.2 | 1844.8 | 1754.3 | 1738.2 | 1670.8 |
| 35° | 2179.5 | 2175.5 | 2184.6 | 2180.5 | 2152.4 | 2081.0 | 1990.5 | 1895.0 | 1802.5 | 1781.4 | 1709.1 |
| 37.5° | 2306.2 | 2311.2 | 2302.2 | 2285.1 | 2240.9 | 2147.4 | 2035.8 | 1928.2 | 1825.7 | 1805.6 | 1730.2 |
| 40° | 2428.9 | 2425.8 | 2404.7 | 2375.6 | 2309.2 | 2189.6 | 2060.9 | 1943.3 | 1833.7 | 1812.6 | 1735.2 |
| 42.5° | 2520.3 | 2512.3 | 2480.1 | 2432.9 | 2347.4 | 2209.7 | 2068.0 | 1943.3 | 1828.7 | 1806.6 | 1728.2 |
| 45° | 2560.6 | 2552.5 | 2521.4 | 2461.0 | 2359.5 | 2205.7 | 2055.9 | 1926.2 | 1811.6 | 1792.5 | 1714.1 |
| 47.5° | 2560.6 | 2557.5 | 2523.4 | 2465.1 | 2356.5 | 2194.6 | 2037.8 | 1905.1 | 1794.5 | 1775.4 | 1702.0 |
| 50° | 2540.5 | 2538.4 | 2508.3 | 2451.0 | 2346.4 | 2188.6 | 2032.8 | 1901.1 | 1793.5 | 1774.4 | 1707.0 |
| 52.5° | 2607.8 | 2594.7 | 2563.6 | 2497.2 | 2383.6 | 2213.7 | 2057.9 | 1921.2 | 1817.6 | 1798.5 | 1729.2 |
| 55° | 3427.2 | 3416.1 | 3258.3 | 2980.8 | 2690.2 | 2424.8 | 2197.6 | 2040.8 | 1936.3 | 1907.1 | 1856.8 |
| 57.5° | 4752.2 | 4736.1 | 4574.2 | 4321.9 | 3822.2 | 3254.2 | 2808.9 | 2547.5 | 2400.7 | 2379.6 | 2349.4 |
| 60° | 5290.0 | 5284.0 | 5215.6 | 5113.1 | 4924.1 | 4630.5 | 4216.3 | 3782.0 | 3444.2 | 3390.0 | 3394.0 |
| 62.5° | 5598.7 | 5583.6 | 5550.4 | 5525.3 | 5460.9 | 5341.3 | 5263.9 | 5142.2 | 4978.4 | 4941.2 | 4705.9 |
| 65° | 5771.6 | 5769.6 | 5787.7 | 5808.8 | 5804.7 | 5840.9 | 5880.1 | 6112.4 | 6384.8 | 6372.8 | 6124.4 |
| 67.5° | 5514.2 | 5531.3 | 5625.8 | 5770.6 | 5922.4 | 6083.2 | 6382.8 | 6848.3 | 7185.1 | 7185.1 | 6966.9 |
| 70° | 3964.0 | 3961.0 | 4212.3 | 4670.7 | 5078.9 | 5680.1 | 6232.0 | 6999.1 | 7550.0 | 7579.1 | 7347.9 |
| 72.5° | 2375.6 | 2430.9 | 2585.7 | 2793.8 | 3140.6 | 3868.5 | 4894.9 | 6273.2 | 7042.3 | 7073.5 | 6797.0 |
| 75° | 1668.8 | 1627.6 | 1621.6 | 1633.7 | 1693.0 | 1871.9 | 2436.9 | 3850.4 | 5105.0 | 5153.3 | 4885.9 |
| 77.5° | 1067.7 | 1058.6 | 1062.6 | 1075.7 | 1078.7 | 1095.8 | 1122.9 | 1320.0 | 2366.5 | 2597.8 | 2585.7 |
| 80° | 920.9 | 917.9 | 918.9 | 903.8 | 874.6 | 863.6 | 897.8 | 870.6 | 845.5 | 880.7 | 832.4 |
| 82.5° | 617.3 | 628.3 | 646.4 | 670.6 | 728.9 | 749.0 | 737.9 | 732.9 | 653.5 | 635.4 | 564.0 |
| 85° | 457.4 | 451.4 | 458.4 | 458.4 | 443.3 | 428.3 | 439.3 | 428.3 | 379.0 | 354.9 | 313.7 |
| 87.5° | 247.3 | 248.3 | 268.4 | 276.5 | 275.5 | 235.2 | 194.0 | 167.9 | 151.8 | 140.7 | 118.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: CEM-F04-LED-E-U-SL4-7030

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1730.2 | 1730.2 | 1730.2 | 1730.2 | 1730.2 | 1730.2 | 1730.2 | 1730.2 | 1730.2 | 1730.2 | 1730.2 |
| 2.5° | 1725.1 | 1722.1 | 1723.1 | 1723.1 | 1722.1 | 1724.1 | 1721.1 | 1720.1 | 1721.1 | 1721.1 | 1721.1 |
| 5° | 1708.0 | 1704.0 | 1704.0 | 1703.0 | 1701.0 | 1701.0 | 1697.0 | 1696.0 | 1694.0 | 1697.0 | 1695.0 |
| 7.5° | 1683.9 | 1677.9 | 1672.9 | 1668.8 | 1666.8 | 1663.8 | 1658.8 | 1656.8 | 1654.8 | 1653.8 | 1651.7 |
| 10° | 1654.8 | 1647.7 | 1637.7 | 1629.6 | 1625.6 | 1617.6 | 1611.5 | 1603.5 | 1603.5 | 1599.5 | 1595.5 |
| 12.5° | 1619.6 | 1609.5 | 1599.5 | 1588.4 | 1581.4 | 1570.3 | 1560.3 | 1551.2 | 1544.2 | 1535.1 | 1529.1 |
| 15° | 1584.4 | 1569.3 | 1558.3 | 1547.2 | 1534.1 | 1519.0 | 1507.0 | 1492.9 | 1479.8 | 1465.8 | 1461.7 |
| 17.5° | 1546.2 | 1534.1 | 1524.1 | 1511.0 | 1496.9 | 1478.8 | 1462.7 | 1439.6 | 1423.5 | 1406.4 | 1393.4 |
| 20° | 1521.1 | 1507.0 | 1495.9 | 1483.9 | 1468.8 | 1447.7 | 1426.6 | 1400.4 | 1376.3 | 1351.2 | 1332.1 |
| 22.5° | 1508.0 | 1484.9 | 1474.8 | 1463.8 | 1448.7 | 1425.6 | 1401.4 | 1369.3 | 1339.1 | 1305.9 | 1275.8 |
| 25° | 1513.0 | 1481.8 | 1461.7 | 1449.7 | 1436.6 | 1413.5 | 1382.3 | 1346.1 | 1311.9 | 1269.7 | 1235.5 |
| 27.5° | 1535.1 | 1492.9 | 1461.7 | 1441.6 | 1427.6 | 1403.4 | 1371.3 | 1330.0 | 1288.8 | 1244.6 | 1203.4 |
| 30° | 1564.3 | 1511.0 | 1470.8 | 1441.6 | 1420.5 | 1394.4 | 1359.2 | 1315.0 | 1269.7 | 1220.5 | 1173.2 |
| 32.5° | 1597.5 | 1532.1 | 1483.9 | 1443.6 | 1409.5 | 1376.3 | 1340.1 | 1293.9 | 1246.6 | 1194.3 | 1148.1 |
| 35° | 1623.6 | 1548.2 | 1492.9 | 1439.6 | 1394.4 | 1353.2 | 1310.9 | 1267.7 | 1220.5 | 1171.2 | 1121.9 |
| 37.5° | 1638.7 | 1558.3 | 1492.9 | 1425.6 | 1370.3 | 1327.0 | 1282.8 | 1240.6 | 1195.3 | 1147.1 | 1103.8 |
| 40° | 1644.7 | 1562.3 | 1486.9 | 1409.5 | 1345.1 | 1295.9 | 1254.6 | 1211.4 | 1171.2 | 1129.0 | 1090.8 |
| 42.5° | 1641.7 | 1559.3 | 1478.8 | 1394.4 | 1325.0 | 1271.7 | 1226.5 | 1186.3 | 1153.1 | 1117.9 | 1085.8 |
| 45° | 1629.6 | 1549.2 | 1470.8 | 1387.3 | 1318.0 | 1263.7 | 1217.4 | 1179.2 | 1148.1 | 1115.9 | 1090.8 |
| 47.5° | 1619.6 | 1545.2 | 1475.8 | 1404.4 | 1338.1 | 1282.8 | 1232.5 | 1190.3 | 1164.2 | 1139.0 | 1122.9 |
| 50° | 1627.6 | 1556.2 | 1486.9 | 1419.5 | 1355.2 | 1298.9 | 1247.6 | 1208.4 | 1193.3 | 1189.3 | 1184.3 |
| 52.5° | 1649.7 | 1579.4 | 1521.1 | 1473.8 | 1444.7 | 1423.5 | 1371.3 | 1362.2 | 1349.1 | 1342.1 | 1325.0 |
| 55° | 1793.5 | 1764.3 | 1816.6 | 1873.9 | 1884.0 | 1947.3 | 1972.4 | 1974.5 | 1952.3 | 1873.9 | 1691.0 |
| 57.5° | 2378.6 | 2451.0 | 2473.1 | 2605.8 | 2642.0 | 2613.8 | 2575.6 | 2573.6 | 2505.3 | 2401.7 | 2135.3 |
| 60° | 3424.1 | 3385.9 | 3338.7 | 3252.2 | 3170.8 | 3083.3 | 2962.7 | 2870.2 | 2782.7 | 2623.9 | 2343.4 |
| 62.5° | 4517.9 | 4185.2 | 3942.9 | 3694.6 | 3493.5 | 3317.6 | 3142.6 | 2993.9 | 2852.1 | 2631.9 | 2331.3 |
| 65° | 5467.0 | 4789.4 | 4297.8 | 3924.8 | 3613.1 | 3355.8 | 3123.5 | 2920.5 | 2741.5 | 2466.1 | 2161.4 |
| 67.5° | 6084.2 | 5110.1 | 4375.2 | 3818.2 | 3377.9 | 3050.2 | 2708.3 | 2387.6 | 2211.7 | 1989.5 | 1834.7 |
| 70° | 6242.1 | 4883.9 | 3858.4 | 3144.7 | 2551.5 | 2160.4 | 1757.3 | 1407.5 | 1245.6 | 1183.3 | 1188.3 |
| 72.5° | 5630.8 | 3860.4 | 2735.5 | 2000.6 | 1566.3 | 1241.6 | 1009.3 | 776.1 | 606.2 | 508.7 | 496.6 |
| 75° | 3678.5 | 2148.4 | 1298.9 | 904.8 | 719.8 | 573.0 | 451.4 | 380.0 | 327.7 | 264.4 | 221.2 |
| 77.5° | 1390.4 | 818.3 | 583.1 | 475.5 | 351.9 | 245.3 | 191.0 | 160.9 | 147.8 | 143.8 | 129.7 |
| 80° | 712.8 | 568.0 | 406.2 | 267.4 | 187.0 | 149.8 | 125.7 | 106.6 | 98.5 | 94.5 | 96.5 |
| 82.5° | 480.5 | 357.9 | 224.2 | 160.9 | 129.7 | 111.6 | 88.5 | 74.4 | 66.4 | 65.3 | 70.4 |
| 85° | 267.4 | 178.9 | 130.7 | 108.6 | 95.5 | 83.4 | 67.4 | 55.3 | 51.3 | 54.3 | 63.3 |
| 87.5° | 83.4 | 82.4 | 59.3 | 48.3 | 50.3 | 43.2 | 32.2 | 24.1 | 24.1 | 31.2 | 44.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: CEM-F04-LED-E-U-SL4-7030

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1730.2 | 1730.2 | 1730.2 | 1730.2 | 1730.2 | 1730.2 | 1730.2 | 1730.2 | 1730.2 | 1730.2 | 1730.2 |
| 2.5° | 1721.1 | 1723.1 | 1727.1 | 1724.1 | 1725.1 | 1726.1 | 1729.2 | 1733.2 | 1730.2 | 1728.2 | 1734.2 |
| 5° | 1697.0 | 1697.0 | 1702.0 | 1700.0 | 1704.0 | 1708.0 | 1710.1 | 1717.1 | 1715.1 | 1713.1 | 1721.1 |
| 7.5° | 1652.8 | 1653.8 | 1660.8 | 1658.8 | 1666.8 | 1667.8 | 1675.9 | 1681.9 | 1681.9 | 1685.9 | 1693.0 |
| 10° | 1596.5 | 1596.5 | 1602.5 | 1603.5 | 1608.5 | 1612.5 | 1621.6 | 1632.6 | 1634.7 | 1641.7 | 1651.7 |
| 12.5° | 1533.1 | 1531.1 | 1536.1 | 1536.1 | 1540.2 | 1545.2 | 1555.2 | 1568.3 | 1570.3 | 1581.4 | 1594.4 |
| 15° | 1454.7 | 1451.7 | 1449.7 | 1451.7 | 1453.7 | 1454.7 | 1469.8 | 1482.9 | 1490.9 | 1503.0 | 1516.0 |
| 17.5° | 1379.3 | 1368.2 | 1363.2 | 1363.2 | 1364.2 | 1364.2 | 1370.3 | 1385.3 | 1396.4 | 1415.5 | 1434.6 |
| 20° | 1311.9 | 1292.8 | 1285.8 | 1269.7 | 1266.7 | 1259.7 | 1264.7 | 1281.8 | 1301.9 | 1317.0 | 1332.1 |
| 22.5° | 1248.6 | 1228.5 | 1208.4 | 1189.3 | 1174.2 | 1165.2 | 1174.2 | 1185.3 | 1192.3 | 1204.4 | 1208.4 |
| 25° | 1200.4 | 1167.2 | 1139.0 | 1108.9 | 1092.8 | 1084.7 | 1083.7 | 1082.7 | 1076.7 | 1074.7 | 1074.7 |
| 27.5° | 1162.2 | 1122.9 | 1080.7 | 1047.5 | 1025.4 | 1010.4 | 993.3 | 981.2 | 966.1 | 946.0 | 936.0 |
| 30° | 1130.0 | 1087.8 | 1041.5 | 1002.3 | 974.2 | 945.0 | 909.8 | 882.7 | 855.5 | 831.4 | 810.3 |
| 32.5° | 1100.8 | 1057.6 | 1012.4 | 971.1 | 922.9 | 872.6 | 828.4 | 796.2 | 749.0 | 716.8 | 689.7 |
| 35° | 1078.7 | 1035.5 | 993.3 | 939.0 | 872.6 | 808.3 | 751.0 | 703.7 | 655.5 | 613.2 | 577.1 |
| 37.5° | 1062.6 | 1026.4 | 981.2 | 907.8 | 824.4 | 747.0 | 686.6 | 630.3 | 573.0 | 515.7 | 470.5 |
| 40° | 1057.6 | 1026.4 | 969.1 | 873.6 | 778.1 | 694.7 | 625.3 | 555.9 | 492.6 | 431.3 | 385.0 |
| 42.5° | 1060.6 | 1027.4 | 950.0 | 843.5 | 739.9 | 649.4 | 571.0 | 490.6 | 415.2 | 349.9 | 303.6 |
| 45° | 1071.7 | 1027.4 | 929.9 | 810.3 | 704.7 | 608.2 | 514.7 | 419.2 | 331.8 | 279.5 | 259.4 |
| 47.5° | 1104.9 | 1034.5 | 913.8 | 786.2 | 673.6 | 563.0 | 451.4 | 342.8 | 268.4 | 246.3 | 246.3 |
| 50° | 1156.1 | 1055.6 | 911.8 | 768.1 | 638.4 | 510.7 | 373.0 | 270.4 | 237.3 | 236.3 | 242.3 |
| 52.5° | 1243.6 | 1092.8 | 921.9 | 756.0 | 601.2 | 440.3 | 290.5 | 233.2 | 226.2 | 232.2 | 241.3 |
| 55° | 1413.5 | 1158.1 | 936.0 | 733.9 | 538.9 | 344.8 | 238.3 | 221.2 | 224.2 | 231.2 | 239.3 |
| 57.5° | 1724.1 | 1289.8 | 951.0 | 686.6 | 436.3 | 261.4 | 216.1 | 217.2 | 222.2 | 229.2 | 236.3 |
| 60° | 1938.3 | 1452.7 | 981.2 | 607.2 | 324.7 | 216.1 | 207.1 | 215.1 | 221.2 | 226.2 | 232.2 |
| 62.5° | 1956.4 | 1512.0 | 1003.3 | 517.7 | 241.3 | 197.0 | 199.1 | 211.1 | 219.2 | 221.2 | 224.2 |
| 65° | 1847.8 | 1435.6 | 940.0 | 427.3 | 200.1 | 187.0 | 194.0 | 205.1 | 213.1 | 214.1 | 217.2 |
| 67.5° | 1610.5 | 1275.8 | 802.2 | 324.7 | 183.0 | 180.0 | 188.0 | 195.0 | 201.1 | 206.1 | 210.1 |
| 70° | 1247.6 | 1041.5 | 645.4 | 252.3 | 169.9 | 168.9 | 175.9 | 184.0 | 190.0 | 195.0 | 201.1 |
| 72.5° | 657.5 | 739.9 | 480.5 | 202.1 | 155.8 | 156.8 | 163.9 | 170.9 | 174.9 | 180.0 | 186.0 |
| 75° | 204.1 | 313.7 | 296.6 | 161.9 | 138.7 | 142.8 | 146.8 | 152.8 | 159.8 | 162.9 | 165.9 |
| 77.5° | 120.6 | 127.7 | 154.8 | 126.7 | 120.6 | 123.7 | 128.7 | 133.7 | 138.7 | 142.8 | 145.8 |
| 80° | 97.5 | 99.5 | 100.5 | 100.5 | 100.5 | 104.6 | 108.6 | 115.6 | 119.6 | 121.6 | 122.6 |
| 82.5° | 76.4 | 81.4 | 82.4 | 80.4 | 83.4 | 87.5 | 89.5 | 93.5 | 94.5 | 96.5 | 98.5 |
| 85° | 63.3 | 62.3 | 64.3 | 65.3 | 61.3 | 61.3 | 59.3 | 59.3 | 63.3 | 70.4 | 71.4 |
| 87.5° | 49.3 | 43.2 | 35.2 | 33.2 | 31.2 | 29.2 | 27.1 | 27.1 | 28.1 | 32.2 | 35.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1730.2 | 1730.2 | 1730.2 | 1730.2 | 1730.2 |
| 2.5° | 1734.2 | 1733.2 | 1735.2 | 1738.2 | 1736.2 |
| 5° | 1722.1 | 1722.1 | 1726.1 | 1729.2 | 1727.1 |
| 7.5° | 1698.0 | 1699.0 | 1705.0 | 1709.1 | 1707.0 |
| 10° | 1659.8 | 1661.8 | 1668.8 | 1674.9 | 1677.9 |
| 12.5° | 1602.5 | 1609.5 | 1618.6 | 1624.6 | 1624.6 |
| 15° | 1530.1 | 1541.2 | 1551.2 | 1560.3 | 1555.2 |
| 17.5° | 1447.7 | 1460.7 | 1473.8 | 1478.8 | 1473.8 |
| 20° | 1348.1 | 1349.1 | 1357.2 | 1362.2 | 1360.2 |
| 22.5° | 1212.4 | 1208.4 | 1212.4 | 1214.4 | 1217.4 |
| 25° | 1073.7 | 1066.6 | 1062.6 | 1068.7 | 1071.7 |
| 27.5° | 931.9 | 921.9 | 924.9 | 917.9 | 909.8 |
| 30° | 794.2 | 785.2 | 774.1 | 771.1 | 776.1 |
| 32.5° | 672.6 | 649.4 | 640.4 | 623.3 | 630.3 |
| 35° | 543.9 | 520.8 | 498.6 | 492.6 | 488.6 |
| 37.5° | 438.3 | 410.2 | 383.0 | 374.0 | 372.0 |
| 40° | 342.8 | 319.7 | 301.6 | 296.6 | 294.6 |
| 42.5° | 278.5 | 268.4 | 265.4 | 265.4 | 266.4 |
| 45° | 254.3 | 255.4 | 258.4 | 260.4 | 261.4 |
| 47.5° | 249.3 | 253.3 | 257.4 | 261.4 | 262.4 |
| 50° | 249.3 | 252.3 | 255.4 | 259.4 | 260.4 |
| 52.5° | 247.3 | 250.3 | 251.3 | 253.3 | 255.4 |
| 55° | 245.3 | 246.3 | 246.3 | 247.3 | 249.3 |
| 57.5° | 240.3 | 241.3 | 239.3 | 240.3 | 244.3 |
| 60° | 235.2 | 236.3 | 234.2 | 236.3 | 237.3 |
| 62.5° | 228.2 | 228.2 | 227.2 | 228.2 | 229.2 |
| 65° | 220.2 | 217.2 | 219.2 | 218.2 | 219.2 |
| 67.5° | 210.1 | 206.1 | 205.1 | 205.1 | 206.1 |
| 70° | 196.0 | 193.0 | 192.0 | 194.0 | 196.0 |
| 72.5° | 178.9 | 181.0 | 184.0 | 187.0 | 192.0 |
| 75° | 166.9 | 169.9 | 173.9 | 184.0 | 191.0 |
| 77.5° | 149.8 | 148.8 | 152.8 | 163.9 | 173.9 |
| 80° | 124.7 | 125.7 | 124.7 | 127.7 | 129.7 |
| 82.5° | 95.5 | 94.5 | 91.5 | 91.5 | 89.5 |
| 85° | 67.4 | 64.3 | 60.3 | 59.3 | 58.3 |
| 87.5° | 34.2 | 36.2 | 33.2 | 30.2 | 30.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)