

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: P142123

Luminaire Tested: **CEM-F03-LED-E-U-T4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P142123
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33685)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CEM-F03-LED-E-U-T4-8030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6010.9 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

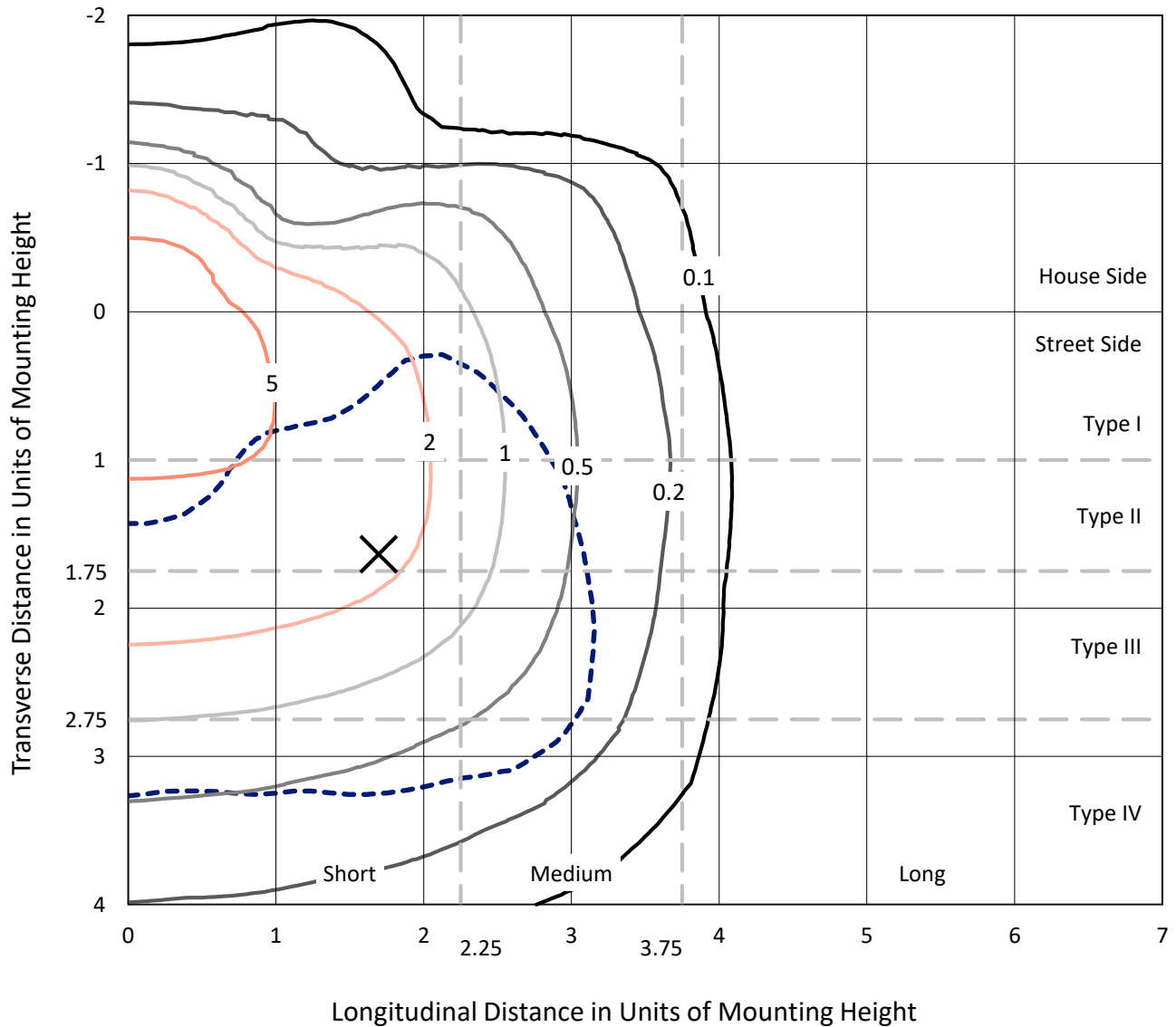
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P142123
 CATALOG NUMBER: CEM-F03-LED-E-U-T4-8030

Iso-Footcandle Lines of Horizontal Illumination

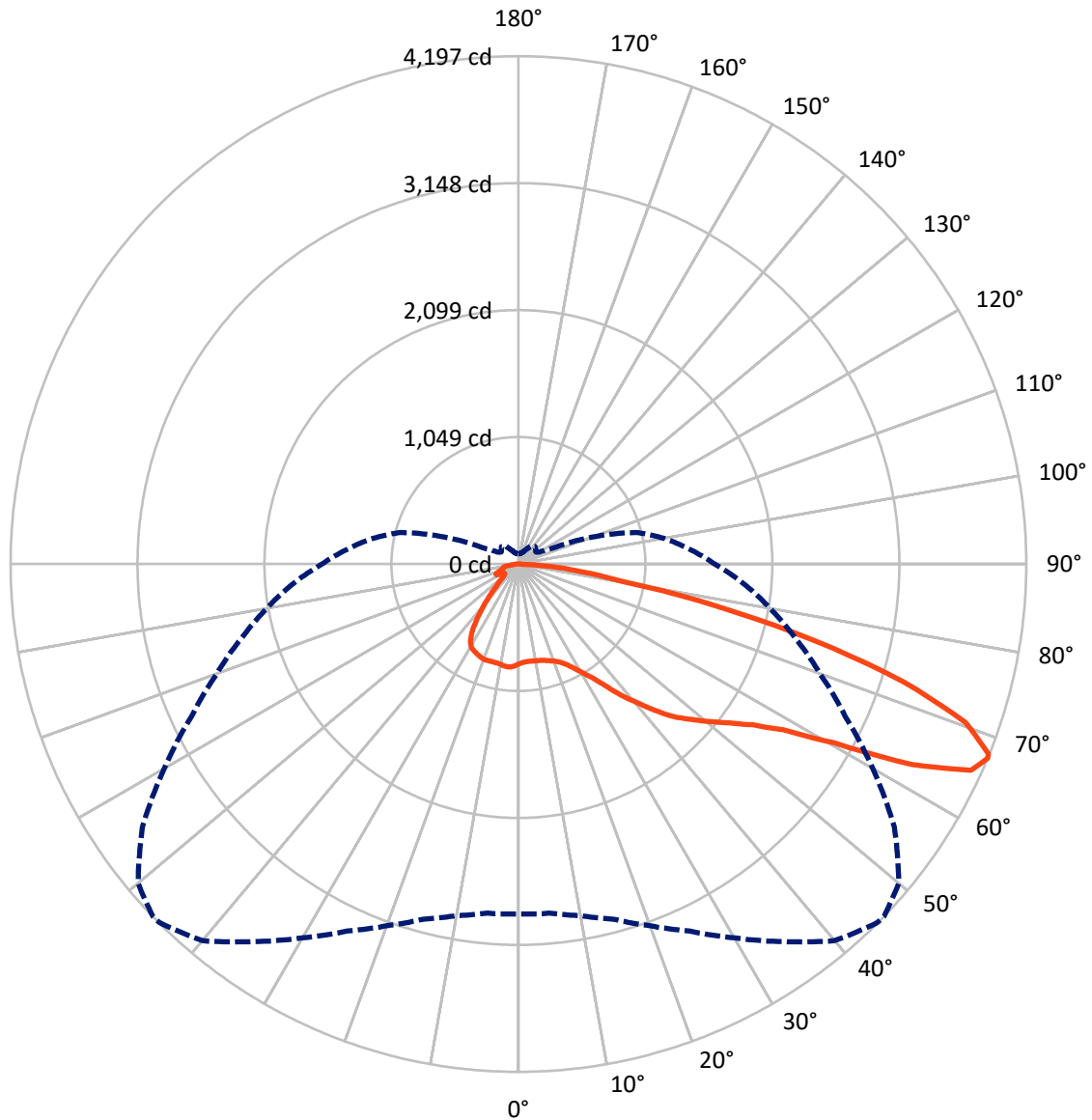
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P142123
CATALOG NUMBER: CEM-F03-LED-E-U-T4-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P142123

CATALOG NUMBER: CEM-F03-LED-E-U-T4-8030

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1194.5 | 0.0 | 1194.5 |
| | % Fixture | 19.9 | 0.0 | 19.9 |
| Street Side | Lumens | 4816.4 | 0.0 | 4816.4 |
| | % Fixture | 80.1 | 0.0 | 80.1 |
| Total | Lumens | 6010.9 | 0.0 | 6010.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.2 | 1.3 |
| 10°-20° | 236.6 | 3.9 |
| 20°-30° | 397.8 | 6.6 |
| 30°-40° | 594.9 | 9.9 |
| 40°-50° | 774.8 | 12.9 |
| 50°-60° | 1061.2 | 17.7 |
| 60°-70° | 1677.6 | 27.9 |
| 70°-80° | 1040.6 | 17.3 |
| 80°-90° | 148.3 | 2.5 |
| 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° | 6010.9 | 100.0 |
| 0°-180° | 6010.9 | 100.0 |



REPORT NUMBER: P142123

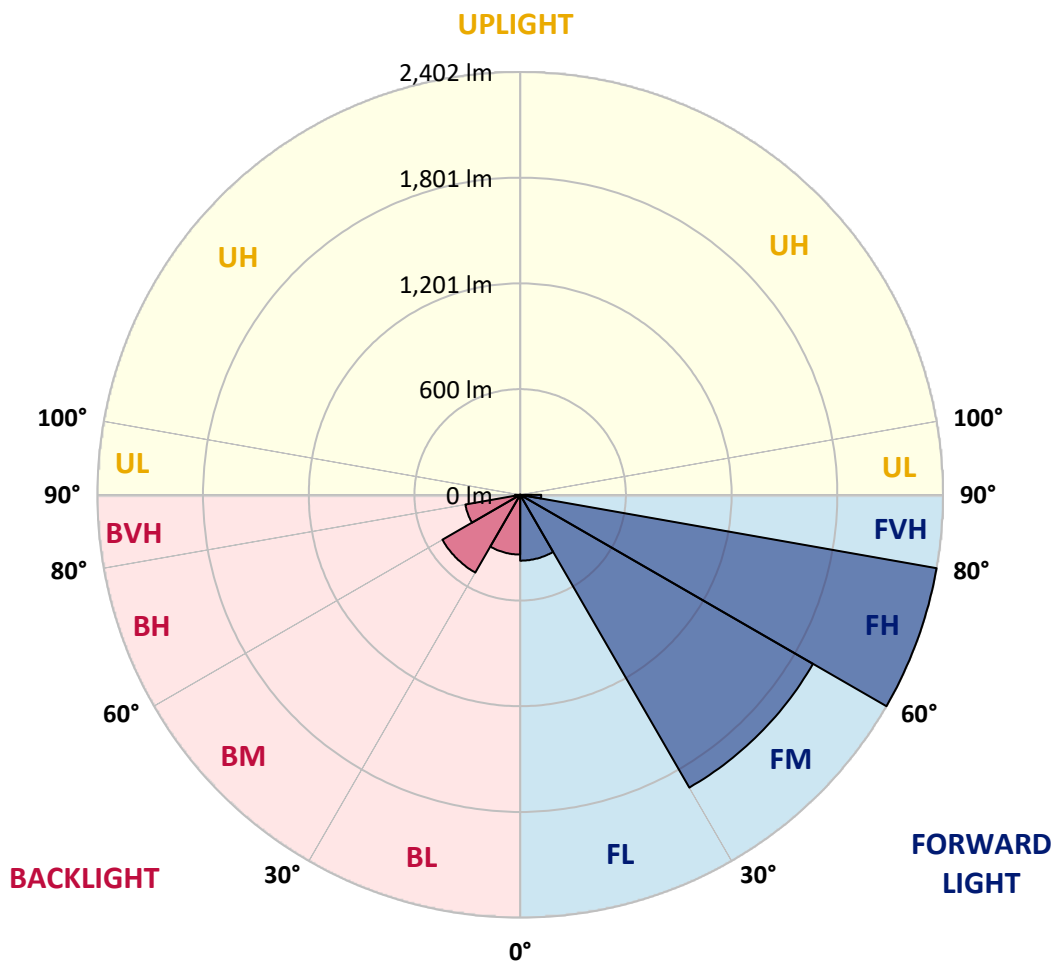
CATALOG NUMBER: CEM-F03-LED-E-U-T4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 374.3 | 6.2 | | | |
| FM | (30°-60°) | 1920.7 | 32.0 | | | |
| FH | (60°-80°) | 2402.0 | 40.0 | | | G2/5000 |
| FVH | (80°-90°) | 119.4 | 2.0 | | | G2/225 |
| BL | (0°-30°) | 339.3 | 5.6 | B1/500 | | |
| BM | (30°-60°) | 510.1 | 8.5 | B1/1000 | | |
| BH | (60°-80°) | 316.2 | 5.3 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 28.9 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P142123

CATALOG NUMBER: CEM-F03-LED-E-U-T4-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 46° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 |
| 2.5° | 805.4 | 807.5 | 806.8 | 806.1 | 806.8 | 807.5 | 808.2 | 810.3 | 811.0 | 811.7 | 812.4 |
| 5° | 790.8 | 792.9 | 792.2 | 793.6 | 794.3 | 797.1 | 799.2 | 802.6 | 804.7 | 807.5 | 808.9 |
| 7.5° | 786.6 | 788.0 | 788.0 | 789.4 | 790.1 | 792.9 | 796.4 | 800.5 | 804.7 | 808.9 | 810.3 |
| 10° | 797.8 | 798.5 | 798.5 | 797.8 | 798.5 | 799.9 | 801.2 | 804.7 | 808.2 | 811.7 | 813.1 |
| 12.5° | 824.2 | 822.1 | 821.5 | 819.4 | 820.1 | 817.3 | 817.3 | 816.6 | 816.6 | 817.3 | 817.3 |
| 15° | 852.1 | 850.7 | 849.3 | 845.8 | 845.8 | 841.7 | 840.3 | 837.5 | 830.5 | 827.7 | 827.0 |
| 17.5° | 877.2 | 875.8 | 873.0 | 870.2 | 868.8 | 863.3 | 861.9 | 857.0 | 848.6 | 842.4 | 840.3 |
| 20° | 907.1 | 903.7 | 897.4 | 896.0 | 892.5 | 886.2 | 884.2 | 877.9 | 866.7 | 857.7 | 857.0 |
| 22.5° | 953.1 | 947.6 | 941.3 | 936.4 | 927.4 | 921.1 | 915.5 | 907.1 | 893.9 | 883.5 | 880.7 |
| 25° | 999.1 | 997.0 | 991.5 | 984.5 | 978.2 | 971.2 | 964.3 | 951.7 | 934.3 | 921.1 | 918.3 |
| 27.5° | 1063.9 | 1059.0 | 1052.1 | 1040.9 | 1037.4 | 1025.6 | 1020.0 | 1009.6 | 992.2 | 975.4 | 972.6 |
| 30° | 1131.5 | 1126.6 | 1115.5 | 1105.7 | 1103.6 | 1091.1 | 1087.6 | 1076.5 | 1061.1 | 1044.4 | 1042.3 |
| 32.5° | 1208.8 | 1204.0 | 1195.6 | 1190.0 | 1182.4 | 1175.4 | 1167.0 | 1156.6 | 1137.1 | 1123.1 | 1120.4 |
| 35° | 1307.8 | 1303.6 | 1293.8 | 1298.0 | 1291.1 | 1289.0 | 1284.1 | 1266.7 | 1245.1 | 1228.3 | 1231.1 |
| 37.5° | 1385.8 | 1385.1 | 1387.2 | 1385.1 | 1394.2 | 1403.2 | 1403.2 | 1404.6 | 1394.2 | 1376.1 | 1372.6 |
| 40° | 1459.0 | 1458.3 | 1463.8 | 1470.1 | 1494.5 | 1509.1 | 1525.9 | 1532.1 | 1521.0 | 1507.0 | 1502.2 |
| 42.5° | 1527.2 | 1525.9 | 1533.5 | 1556.5 | 1586.5 | 1613.6 | 1642.2 | 1666.6 | 1672.2 | 1656.8 | 1653.4 |
| 45° | 1594.8 | 1596.9 | 1606.7 | 1632.5 | 1672.2 | 1707.7 | 1756.5 | 1785.0 | 1803.2 | 1794.8 | 1800.4 |
| 47.5° | 1676.3 | 1678.4 | 1688.9 | 1719.5 | 1754.4 | 1799.0 | 1856.1 | 1904.9 | 1926.5 | 1926.5 | 1919.5 |
| 50° | 1773.2 | 1782.9 | 1794.1 | 1815.0 | 1855.4 | 1899.3 | 1969.0 | 2017.7 | 2052.6 | 2051.2 | 2045.6 |
| 52.5° | 1902.1 | 1904.2 | 1922.3 | 1939.0 | 1973.9 | 2018.4 | 2081.1 | 2148.0 | 2191.9 | 2187.7 | 2181.5 |
| 55° | 2075.6 | 2067.2 | 2079.1 | 2095.1 | 2132.7 | 2171.7 | 2240.0 | 2317.3 | 2361.9 | 2348.7 | 2344.5 |
| 57.5° | 2294.4 | 2287.4 | 2295.7 | 2315.3 | 2362.6 | 2394.7 | 2449.7 | 2520.8 | 2583.5 | 2594.6 | 2584.9 |
| 60° | 2610.0 | 2610.0 | 2626.7 | 2668.5 | 2716.6 | 2764.6 | 2835.0 | 2920.7 | 2985.5 | 3001.5 | 3000.8 |
| 62.5° | 2984.1 | 3007.8 | 3011.3 | 3065.6 | 3157.6 | 3240.5 | 3349.9 | 3501.1 | 3597.9 | 3666.9 | 3648.8 |
| 65° | 3044.0 | 3051.7 | 3082.4 | 3166.7 | 3291.4 | 3438.4 | 3608.4 | 3807.0 | 4008.3 | 4108.0 | 4110.7 |
| 67° | 2893.5 | 2896.3 | 2950.0 | 3038.5 | 3181.3 | 3347.1 | 3567.3 | 3809.1 | 4064.1 | 4193.0 | 4197.1 |
| 67.5° | 2846.9 | 2841.3 | 2889.4 | 2982.0 | 3138.1 | 3324.8 | 3531.8 | 3786.1 | 4049.4 | 4187.4 | 4189.5 |
| 70° | 2534.0 | 2536.8 | 2574.4 | 2677.6 | 2842.7 | 3017.6 | 3248.9 | 3510.2 | 3787.5 | 3913.6 | 3919.8 |
| 72.5° | 2185.0 | 2166.8 | 2201.0 | 2311.1 | 2389.8 | 2560.5 | 2773.0 | 2970.2 | 3214.0 | 3333.2 | 3330.4 |
| 75° | 1666.6 | 1616.4 | 1676.3 | 1740.4 | 1784.3 | 1953.6 | 2086.0 | 2221.9 | 2446.9 | 2537.5 | 2532.6 |
| 77.5° | 898.1 | 896.0 | 961.5 | 1011.7 | 1077.2 | 1229.7 | 1346.1 | 1431.8 | 1621.3 | 1665.9 | 1671.5 |
| 80° | 487.7 | 505.8 | 544.8 | 600.6 | 653.5 | 726.7 | 794.3 | 847.9 | 909.9 | 881.4 | 875.1 |
| 82.5° | 294.0 | 324.0 | 383.9 | 426.4 | 447.3 | 480.1 | 528.1 | 558.8 | 583.2 | 530.2 | 519.8 |
| 85° | 46.7 | 84.3 | 216.7 | 259.2 | 281.5 | 296.8 | 307.3 | 327.5 | 298.9 | 280.1 | 285.0 |
| 87.5° | 15.3 | 17.4 | 33.4 | 73.9 | 64.8 | 44.6 | 58.5 | 85.0 | 40.4 | 21.6 | 20.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P142123

CATALOG NUMBER: CEM-F03-LED-E-U-T4-8030

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 |
| 2.5° | 813.1 | 813.8 | 815.9 | 818.7 | 820.1 | 823.5 | 823.5 | 826.3 | 826.3 | 828.4 | 830.5 |
| 5° | 811.0 | 814.5 | 817.3 | 821.5 | 823.5 | 828.4 | 830.5 | 834.7 | 836.8 | 839.6 | 842.4 |
| 7.5° | 814.5 | 819.4 | 822.8 | 827.7 | 831.2 | 836.1 | 838.2 | 841.7 | 843.7 | 847.2 | 848.6 |
| 10° | 817.3 | 822.1 | 826.3 | 831.9 | 834.7 | 838.2 | 840.3 | 843.1 | 843.7 | 845.8 | 847.2 |
| 12.5° | 820.8 | 822.8 | 826.3 | 831.2 | 834.0 | 836.1 | 838.2 | 840.3 | 842.4 | 842.4 | 842.4 |
| 15° | 825.6 | 823.5 | 824.2 | 828.4 | 831.2 | 832.6 | 834.7 | 836.1 | 836.8 | 836.8 | 835.4 |
| 17.5° | 836.1 | 830.5 | 827.0 | 827.0 | 828.4 | 829.8 | 829.8 | 827.7 | 826.3 | 824.2 | 821.5 |
| 20° | 851.4 | 842.4 | 835.4 | 831.9 | 829.1 | 825.6 | 820.1 | 813.1 | 806.8 | 801.2 | 797.8 |
| 22.5° | 873.0 | 864.0 | 855.6 | 847.9 | 838.9 | 827.0 | 815.2 | 800.5 | 788.7 | 779.6 | 776.2 |
| 25° | 913.4 | 900.2 | 893.9 | 882.1 | 868.1 | 849.3 | 831.2 | 811.0 | 797.1 | 784.5 | 779.0 |
| 27.5° | 967.8 | 957.3 | 943.4 | 937.1 | 919.0 | 897.4 | 877.2 | 852.8 | 833.3 | 818.0 | 807.5 |
| 30° | 1036.7 | 1029.8 | 1017.9 | 1007.5 | 990.1 | 970.6 | 940.6 | 913.4 | 879.3 | 852.1 | 836.8 |
| 32.5° | 1116.2 | 1105.7 | 1095.3 | 1082.0 | 1069.5 | 1043.7 | 1015.8 | 974.7 | 927.4 | 880.7 | 852.1 |
| 35° | 1215.8 | 1205.4 | 1198.4 | 1177.5 | 1156.6 | 1128.7 | 1091.1 | 1042.3 | 976.1 | 913.4 | 864.6 |
| 37.5° | 1353.1 | 1330.8 | 1296.6 | 1266.7 | 1229.0 | 1186.5 | 1144.0 | 1085.5 | 1011.7 | 930.1 | 863.3 |
| 40° | 1472.2 | 1439.5 | 1401.1 | 1349.6 | 1296.6 | 1240.9 | 1190.7 | 1127.3 | 1040.9 | 944.1 | 853.5 |
| 42.5° | 1626.9 | 1570.4 | 1505.6 | 1437.4 | 1364.9 | 1298.0 | 1236.0 | 1163.5 | 1062.5 | 944.8 | 830.5 |
| 45° | 1766.2 | 1696.6 | 1610.9 | 1518.2 | 1429.7 | 1348.2 | 1277.1 | 1197.0 | 1080.6 | 942.0 | 804.0 |
| 47.5° | 1890.2 | 1808.7 | 1704.2 | 1592.7 | 1488.2 | 1396.3 | 1318.2 | 1233.9 | 1104.3 | 951.0 | 794.3 |
| 50° | 2010.1 | 1916.7 | 1799.0 | 1663.8 | 1547.4 | 1447.1 | 1365.6 | 1275.0 | 1144.0 | 981.7 | 809.6 |
| 52.5° | 2138.3 | 2024.7 | 1891.6 | 1739.1 | 1612.2 | 1508.4 | 1417.2 | 1324.5 | 1191.4 | 1022.8 | 837.5 |
| 55° | 2295.0 | 2166.2 | 2014.3 | 1845.7 | 1700.0 | 1584.4 | 1481.3 | 1383.7 | 1247.9 | 1073.7 | 870.2 |
| 57.5° | 2504.1 | 2373.8 | 2198.9 | 2004.5 | 1851.9 | 1714.7 | 1590.6 | 1480.6 | 1333.6 | 1144.0 | 919.0 |
| 60° | 2906.8 | 2745.8 | 2513.1 | 2302.0 | 2136.9 | 1975.2 | 1825.4 | 1675.0 | 1498.0 | 1286.2 | 1044.4 |
| 62.5° | 3553.4 | 3329.0 | 3040.6 | 2746.5 | 2523.6 | 2309.7 | 2111.8 | 1916.0 | 1695.2 | 1457.6 | 1193.5 |
| 65° | 4000.7 | 3723.4 | 3361.1 | 2992.5 | 2690.8 | 2429.5 | 2193.3 | 1960.6 | 1714.7 | 1488.2 | 1258.3 |
| 67° | 4103.1 | 3793.0 | 3380.6 | 2980.6 | 2652.5 | 2368.9 | 2111.8 | 1869.3 | 1622.0 | 1416.5 | 1220.0 |
| 67.5° | 4098.9 | 3789.5 | 3365.2 | 2955.6 | 2626.7 | 2347.3 | 2088.1 | 1833.1 | 1590.0 | 1388.6 | 1201.2 |
| 70° | 3850.9 | 3540.1 | 3113.7 | 2706.1 | 2389.1 | 2111.1 | 1849.8 | 1627.6 | 1379.5 | 1216.5 | 1075.8 |
| 72.5° | 3262.8 | 2992.5 | 2648.3 | 2281.8 | 2010.1 | 1761.3 | 1552.3 | 1334.2 | 1119.0 | 1010.3 | 899.5 |
| 75° | 2481.1 | 2241.4 | 1925.8 | 1657.5 | 1450.6 | 1277.8 | 1068.1 | 924.6 | 773.4 | 698.8 | 659.1 |
| 77.5° | 1639.4 | 1364.2 | 1146.1 | 890.4 | 738.5 | 602.7 | 475.2 | 376.9 | 314.9 | 330.9 | 361.6 |
| 80° | 867.4 | 688.4 | 509.3 | 394.4 | 304.5 | 236.9 | 188.1 | 140.7 | 102.4 | 119.8 | 150.5 |
| 82.5° | 472.4 | 402.7 | 297.5 | 236.9 | 193.7 | 160.2 | 123.3 | 86.4 | 64.1 | 71.1 | 102.4 |
| 85° | 269.6 | 236.9 | 183.9 | 143.5 | 125.4 | 102.4 | 70.4 | 47.4 | 46.0 | 49.5 | 63.4 |
| 87.5° | 44.6 | 59.9 | 48.8 | 33.4 | 37.6 | 36.9 | 32.7 | 25.1 | 18.8 | 26.5 | 34.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P142123

CATALOG NUMBER: CEM-F03-LED-E-U-T4-8030

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 |
| 2.5° | 831.9 | 834.0 | 836.8 | 837.5 | 836.8 | 838.9 | 842.4 | 845.1 | 843.1 | 841.7 | 845.1 |
| 5° | 845.1 | 846.5 | 850.0 | 850.0 | 850.7 | 852.1 | 854.2 | 856.3 | 853.5 | 853.5 | 854.9 |
| 7.5° | 850.7 | 850.7 | 854.2 | 852.8 | 852.8 | 852.1 | 854.2 | 854.9 | 850.7 | 850.0 | 850.7 |
| 10° | 847.2 | 847.2 | 848.6 | 845.8 | 845.1 | 844.4 | 844.4 | 845.1 | 841.0 | 839.6 | 841.7 |
| 12.5° | 842.4 | 842.4 | 841.0 | 839.6 | 838.2 | 836.8 | 838.2 | 838.9 | 836.1 | 836.1 | 836.8 |
| 15° | 834.0 | 831.9 | 831.2 | 831.2 | 831.9 | 832.6 | 835.4 | 837.5 | 835.4 | 834.0 | 834.0 |
| 17.5° | 820.1 | 818.7 | 820.8 | 824.9 | 829.8 | 833.3 | 837.5 | 838.9 | 834.0 | 828.4 | 824.2 |
| 20° | 799.2 | 802.6 | 810.3 | 822.1 | 832.6 | 838.2 | 838.2 | 833.3 | 822.1 | 811.0 | 805.4 |
| 22.5° | 777.6 | 787.3 | 804.0 | 822.1 | 834.7 | 836.8 | 829.1 | 818.7 | 803.3 | 791.5 | 781.0 |
| 25° | 780.3 | 792.2 | 808.9 | 824.2 | 832.6 | 829.1 | 815.2 | 801.9 | 783.8 | 771.3 | 756.0 |
| 27.5° | 809.6 | 820.8 | 829.1 | 834.0 | 831.2 | 820.1 | 804.0 | 785.9 | 765.7 | 748.3 | 730.2 |
| 30° | 833.3 | 838.2 | 837.5 | 833.3 | 822.8 | 805.4 | 786.6 | 765.0 | 740.6 | 721.8 | 698.1 |
| 32.5° | 837.5 | 828.4 | 814.5 | 799.2 | 785.2 | 765.7 | 744.1 | 719.0 | 691.9 | 667.5 | 643.8 |
| 35° | 829.8 | 795.7 | 765.0 | 734.4 | 713.5 | 689.1 | 670.3 | 641.0 | 611.0 | 590.1 | 572.7 |
| 37.5° | 801.2 | 742.0 | 693.3 | 650.1 | 619.4 | 591.5 | 563.0 | 534.4 | 509.3 | 499.6 | 494.7 |
| 40° | 765.0 | 675.8 | 601.3 | 541.4 | 508.6 | 481.4 | 452.2 | 429.2 | 417.3 | 408.3 | 404.8 |
| 42.5° | 712.1 | 600.6 | 507.9 | 443.8 | 402.0 | 376.9 | 348.4 | 335.8 | 330.3 | 332.3 | 329.6 |
| 45° | 662.6 | 521.9 | 405.5 | 334.4 | 305.9 | 282.2 | 268.2 | 262.7 | 259.9 | 258.5 | 260.6 |
| 47.5° | 627.8 | 461.2 | 326.8 | 254.3 | 230.6 | 213.9 | 208.3 | 206.2 | 205.5 | 202.8 | 202.1 |
| 50° | 619.4 | 425.7 | 267.5 | 197.9 | 179.8 | 170.7 | 167.9 | 165.8 | 164.4 | 162.3 | 157.5 |
| 52.5° | 629.2 | 416.0 | 238.3 | 170.0 | 154.7 | 147.7 | 145.6 | 142.1 | 140.7 | 135.2 | 128.9 |
| 55° | 645.9 | 419.4 | 229.2 | 162.3 | 147.0 | 139.3 | 136.6 | 135.2 | 130.3 | 124.0 | 116.4 |
| 57.5° | 680.7 | 441.0 | 233.4 | 164.4 | 148.4 | 141.4 | 140.0 | 138.7 | 132.4 | 123.3 | 113.6 |
| 60° | 781.7 | 503.7 | 255.0 | 179.1 | 159.6 | 154.7 | 155.4 | 152.6 | 143.5 | 131.7 | 117.1 |
| 62.5° | 937.8 | 601.3 | 294.7 | 197.2 | 177.7 | 177.7 | 181.8 | 179.8 | 165.8 | 146.3 | 125.4 |
| 65° | 1018.6 | 659.8 | 311.4 | 202.8 | 183.2 | 192.3 | 205.5 | 203.4 | 183.2 | 154.0 | 126.1 |
| 67° | 1006.1 | 648.7 | 301.7 | 194.4 | 172.8 | 184.6 | 197.9 | 198.6 | 176.3 | 147.0 | 120.5 |
| 67.5° | 994.2 | 641.0 | 296.8 | 190.9 | 170.0 | 181.8 | 194.4 | 192.3 | 173.5 | 144.2 | 119.1 |
| 70° | 893.2 | 563.0 | 264.8 | 178.4 | 157.5 | 160.9 | 164.4 | 161.6 | 147.0 | 127.5 | 110.1 |
| 72.5° | 771.3 | 467.5 | 233.4 | 170.7 | 150.5 | 144.9 | 144.9 | 140.0 | 130.3 | 117.1 | 104.5 |
| 75° | 588.0 | 363.7 | 204.8 | 162.3 | 142.1 | 133.8 | 132.4 | 128.9 | 120.5 | 110.8 | 99.6 |
| 77.5° | 358.8 | 260.6 | 177.7 | 149.8 | 131.7 | 124.7 | 125.4 | 123.3 | 115.0 | 105.9 | 95.5 |
| 80° | 179.8 | 168.6 | 149.1 | 130.3 | 119.1 | 112.2 | 112.9 | 108.7 | 101.7 | 94.8 | 86.4 |
| 82.5° | 110.1 | 116.4 | 104.5 | 98.9 | 92.0 | 84.3 | 65.5 | 76.6 | 74.6 | 68.3 | 64.8 |
| 85° | 73.2 | 72.5 | 65.5 | 57.8 | 53.0 | 46.0 | 41.1 | 41.8 | 46.0 | 47.4 | 47.4 |
| 87.5° | 35.5 | 34.1 | 31.4 | 29.3 | 27.9 | 23.0 | 21.6 | 24.4 | 24.4 | 25.8 | 25.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P142123

CATALOG NUMBER: CEM-F03-LED-E-U-T4-8030

CANDELA DISTRIBUTION (continued):

| | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|
| 0° | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 |
| 2.5° | 845.8 | 847.2 | 846.5 | 848.6 | 846.5 |
| 5° | 855.6 | 855.6 | 856.3 | 857.0 | 856.3 |
| 7.5° | 850.7 | 850.0 | 851.4 | 852.8 | 852.1 |
| 10° | 841.7 | 842.4 | 843.7 | 845.8 | 845.8 |
| 12.5° | 838.2 | 838.9 | 841.7 | 843.7 | 843.7 |
| 15° | 835.4 | 836.1 | 837.5 | 840.3 | 838.2 |
| 17.5° | 822.8 | 820.1 | 820.1 | 822.1 | 820.1 |
| 20° | 800.5 | 796.4 | 796.4 | 795.7 | 795.0 |
| 22.5° | 774.1 | 763.6 | 760.8 | 757.4 | 758.0 |
| 25° | 741.3 | 727.4 | 719.7 | 715.5 | 714.2 |
| 27.5° | 714.9 | 698.8 | 691.2 | 684.9 | 682.8 |
| 30° | 681.4 | 663.3 | 657.0 | 653.5 | 652.1 |
| 32.5° | 632.6 | 616.6 | 608.3 | 606.2 | 602.0 |
| 35° | 558.8 | 551.8 | 548.3 | 543.5 | 544.2 |
| 37.5° | 484.9 | 482.8 | 474.5 | 477.3 | 474.5 |
| 40° | 405.5 | 404.8 | 406.2 | 404.1 | 409.0 |
| 42.5° | 330.9 | 328.9 | 332.3 | 330.3 | 332.3 |
| 45° | 256.4 | 260.6 | 265.5 | 263.4 | 266.2 |
| 47.5° | 196.5 | 197.2 | 195.8 | 197.2 | 198.6 |
| 50° | 151.2 | 149.8 | 148.4 | 145.6 | 147.0 |
| 52.5° | 124.7 | 119.8 | 116.4 | 114.3 | 113.6 |
| 55° | 110.1 | 105.2 | 102.4 | 99.6 | 99.6 |
| 57.5° | 105.9 | 99.6 | 95.5 | 93.4 | 92.7 |
| 60° | 106.6 | 98.2 | 92.7 | 89.2 | 88.5 |
| 62.5° | 109.4 | 98.2 | 90.6 | 87.1 | 85.7 |
| 65° | 108.7 | 96.8 | 89.2 | 85.7 | 84.3 |
| 67° | 105.2 | 94.8 | 88.5 | 85.0 | 84.3 |
| 67.5° | 103.8 | 94.1 | 88.5 | 85.0 | 83.6 |
| 70° | 98.9 | 92.0 | 87.1 | 83.6 | 82.2 |
| 72.5° | 94.8 | 89.2 | 83.6 | 80.8 | 79.4 |
| 75° | 90.6 | 85.0 | 80.1 | 77.3 | 76.6 |
| 77.5° | 86.4 | 80.1 | 76.6 | 73.2 | 70.4 |
| 80° | 78.7 | 71.8 | 66.9 | 61.3 | 59.9 |
| 82.5° | 64.8 | 59.2 | 54.3 | 49.5 | 48.8 |
| 85° | 48.1 | 46.0 | 41.8 | 37.6 | 37.6 |
| 87.5° | 26.5 | 29.3 | 25.8 | 23.7 | 22.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)