

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: P141812

Luminaire Tested: **CEM-E04-LED-E-U-T2-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P141812
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33682)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CEM-E04-LED-E-U-T2-7060
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (84) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12100.2 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (A_{in}): 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

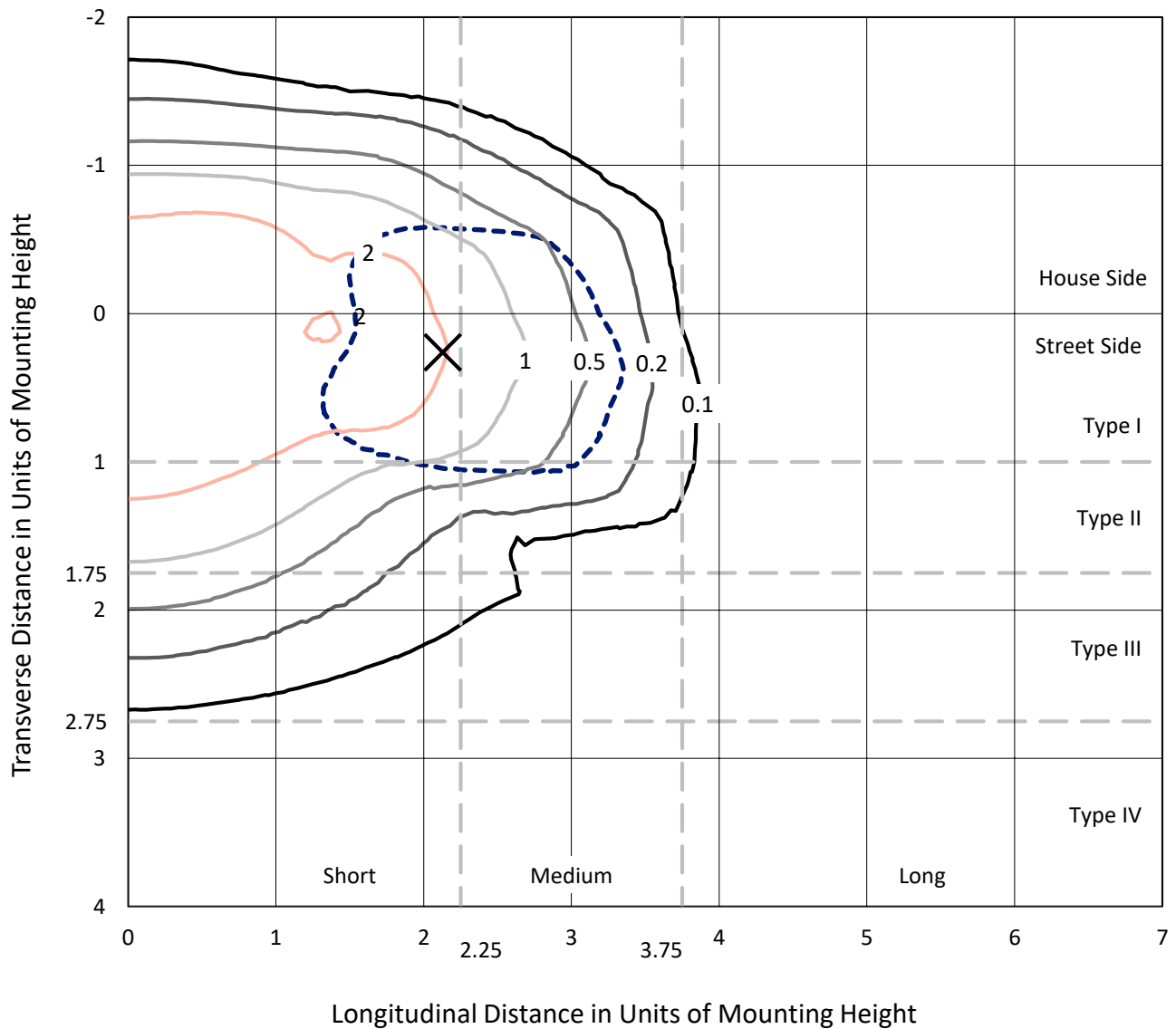


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Iso-Footcandle Lines of Horizontal Illumination

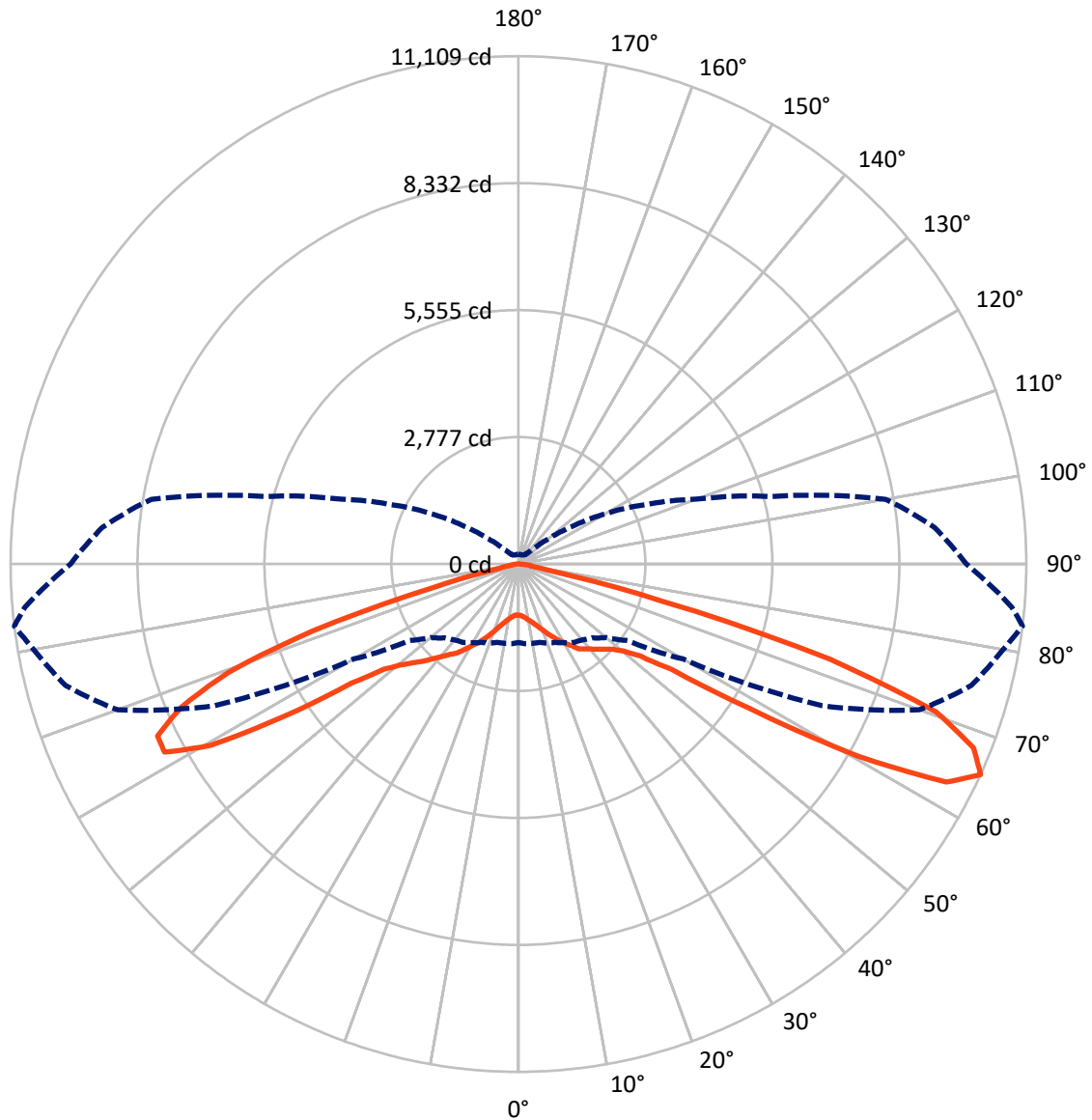
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 83-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4488.3 | 0.0 | 4488.3 |
| | % Fixture | 37.1 | 0.0 | 37.1 |
| Street Side | Lumens | 7611.9 | 0.0 | 7611.9 |
| | % Fixture | 62.9 | 0.0 | 62.9 |
| Total | Lumens | 12100.2 | 0.0 | 12100.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 112.7 | 0.9 |
| 10°-20° | 394.9 | 3.3 |
| 20°-30° | 780.3 | 6.4 |
| 30°-40° | 1342.8 | 11.1 |
| 40°-50° | 2025.9 | 16.7 |
| 50°-60° | 2819.2 | 23.3 |
| 60°-70° | 3254.0 | 26.9 |
| 70°-80° | 1182.6 | 9.8 |
| 80°-90° | 187.8 | 1.6 |
| 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° | 12100.2 | 100.0 |
| 0°-180° | 12100.2 | 100.0 |

Coefficient of Utilization



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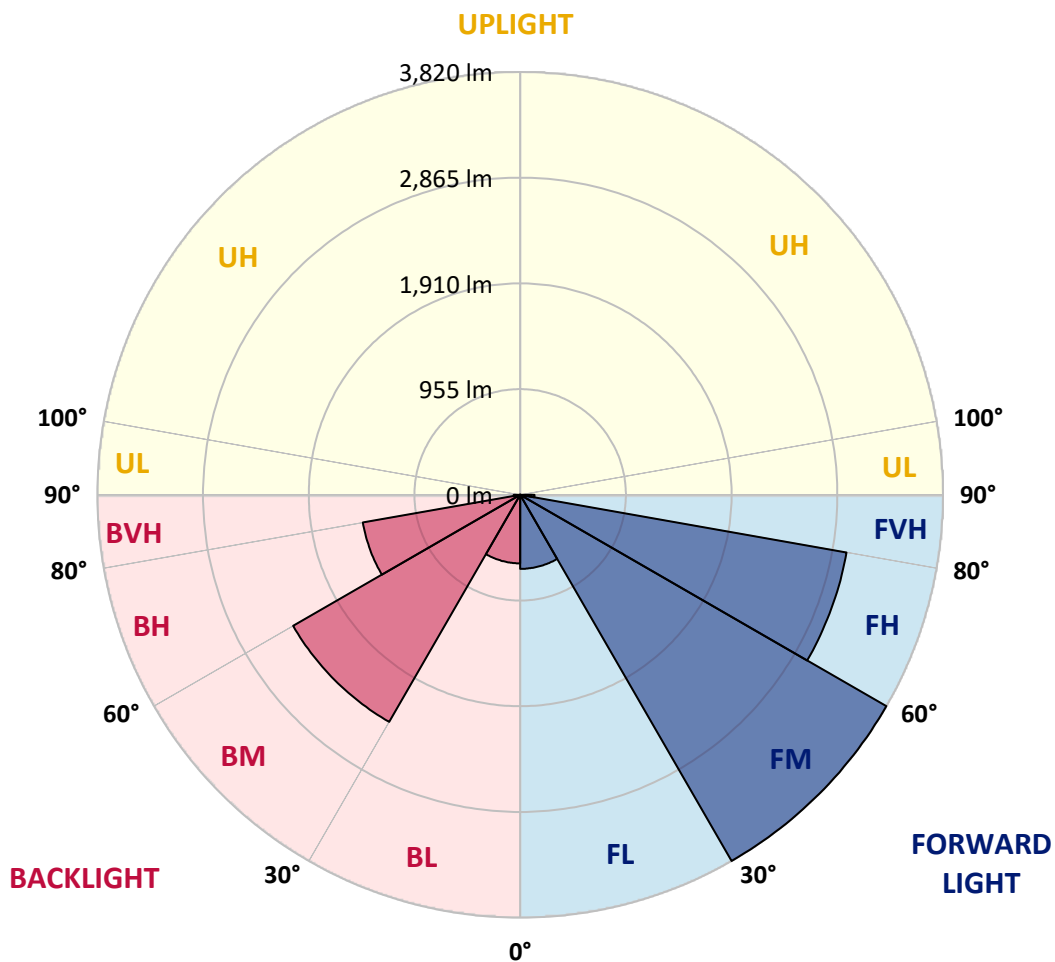
CATALOG NUMBER: CEM-E04-LED-E-U-T2-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 668.9 | 5.5 | | | |
| FM | (30°-60°) | 3819.7 | 31.6 | | | |
| FH | (60°-80°) | 2993.5 | 24.7 | | | G2/5000 |
| FVH | (80°-90°) | 129.7 | 1.1 | | | G2/225 |
| BL | (0°-30°) | 619.0 | 5.1 | B2/1000 | | |
| BM | (30°-60°) | 2368.2 | 19.6 | B2/2500 | | |
| BH | (60°-80°) | 1443.1 | 11.9 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 58.1 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 |
| 2.5° | 1175.2 | 1178.0 | 1175.2 | 1175.2 | 1173.9 | 1172.5 | 1172.5 | 1171.1 | 1168.4 | 1165.7 | 1164.3 |
| 5° | 1239.5 | 1240.9 | 1236.8 | 1236.8 | 1238.2 | 1236.8 | 1232.7 | 1234.1 | 1223.1 | 1219.0 | 1216.3 |
| 7.5° | 1310.7 | 1314.8 | 1309.3 | 1306.6 | 1305.2 | 1302.5 | 1298.4 | 1291.5 | 1283.3 | 1276.5 | 1272.4 |
| 10° | 1391.4 | 1395.5 | 1392.8 | 1387.3 | 1379.1 | 1375.0 | 1370.9 | 1359.9 | 1350.4 | 1339.4 | 1331.2 |
| 12.5° | 1487.2 | 1488.5 | 1485.8 | 1474.9 | 1469.4 | 1457.1 | 1443.4 | 1431.1 | 1417.4 | 1401.0 | 1387.3 |
| 15° | 1581.6 | 1582.9 | 1578.8 | 1567.9 | 1561.0 | 1546.0 | 1526.8 | 1510.4 | 1487.2 | 1468.0 | 1450.2 |
| 17.5° | 1654.1 | 1656.8 | 1648.6 | 1640.4 | 1630.8 | 1611.7 | 1593.9 | 1574.7 | 1550.1 | 1529.6 | 1511.8 |
| 20° | 1678.7 | 1682.8 | 1677.3 | 1673.2 | 1667.8 | 1658.2 | 1640.4 | 1624.0 | 1602.1 | 1587.0 | 1573.4 |
| 22.5° | 1667.8 | 1671.9 | 1669.1 | 1669.1 | 1669.1 | 1667.8 | 1659.6 | 1655.5 | 1641.8 | 1634.9 | 1632.2 |
| 25° | 1651.3 | 1655.5 | 1652.7 | 1655.5 | 1660.9 | 1667.8 | 1667.8 | 1676.0 | 1674.6 | 1685.5 | 1692.4 |
| 27.5° | 1693.8 | 1696.5 | 1689.7 | 1689.7 | 1695.1 | 1706.1 | 1703.3 | 1719.8 | 1722.5 | 1744.4 | 1764.9 |
| 30° | 1841.5 | 1841.5 | 1830.6 | 1819.6 | 1823.7 | 1821.0 | 1818.3 | 1829.2 | 1829.2 | 1849.7 | 1859.3 |
| 32.5° | 2061.8 | 2046.7 | 2045.4 | 2044.0 | 2034.4 | 2041.3 | 2019.4 | 2020.7 | 2011.2 | 2013.9 | 2009.8 |
| 35° | 2303.9 | 2302.6 | 2297.1 | 2294.4 | 2290.3 | 2310.8 | 2294.4 | 2308.1 | 2273.8 | 2261.5 | 2238.3 |
| 37.5° | 2516.0 | 2521.5 | 2525.6 | 2546.1 | 2555.7 | 2596.7 | 2606.3 | 2613.1 | 2577.6 | 2578.9 | 2527.0 |
| 40° | 2729.4 | 2736.3 | 2751.3 | 2788.3 | 2815.6 | 2853.9 | 2871.7 | 2900.5 | 2903.2 | 2908.7 | 2870.4 |
| 42.5° | 2962.0 | 2951.1 | 2971.6 | 3018.1 | 3052.3 | 3090.6 | 3113.9 | 3167.2 | 3197.3 | 3212.4 | 3217.9 |
| 45° | 3149.5 | 3137.1 | 3146.7 | 3174.1 | 3205.6 | 3254.8 | 3305.4 | 3384.8 | 3449.1 | 3518.9 | 3557.2 |
| 47.5° | 3246.6 | 3249.3 | 3256.2 | 3272.6 | 3294.5 | 3342.4 | 3413.5 | 3514.8 | 3618.7 | 3730.9 | 3830.8 |
| 50° | 3278.1 | 3279.4 | 3289.0 | 3305.4 | 3325.9 | 3376.6 | 3450.5 | 3565.4 | 3691.2 | 3848.6 | 4001.8 |
| 52.5° | 3287.6 | 3282.2 | 3291.7 | 3300.0 | 3313.6 | 3356.0 | 3425.8 | 3546.2 | 3688.5 | 3878.7 | 4105.8 |
| 55° | 3252.1 | 3245.2 | 3261.6 | 3272.6 | 3283.5 | 3317.7 | 3371.1 | 3481.9 | 3629.7 | 3845.8 | 4142.7 |
| 57.5° | 3115.3 | 3116.6 | 3139.9 | 3168.6 | 3197.3 | 3243.9 | 3313.6 | 3419.0 | 3565.4 | 3778.8 | 4111.3 |
| 60° | 2884.0 | 2879.9 | 2908.7 | 2944.2 | 2993.5 | 3067.4 | 3153.6 | 3260.3 | 3382.0 | 3559.9 | 3886.9 |
| 62.5° | 2464.0 | 2480.4 | 2490.0 | 2543.4 | 2546.1 | 2651.5 | 2707.6 | 2814.3 | 2918.2 | 3055.1 | 3349.2 |
| 65° | 1715.6 | 1751.2 | 1760.8 | 1774.5 | 1838.8 | 1893.5 | 1983.8 | 2096.0 | 2164.4 | 2284.8 | 2503.7 |
| 67.5° | 1068.5 | 1094.5 | 1095.9 | 1131.5 | 1187.5 | 1250.5 | 1320.3 | 1433.8 | 1537.8 | 1556.9 | 1666.4 |
| 70° | 886.6 | 887.9 | 907.1 | 933.1 | 976.9 | 1041.2 | 1109.6 | 1188.9 | 1283.3 | 1343.5 | 1332.6 |
| 72.5° | 734.7 | 742.9 | 756.6 | 782.6 | 830.5 | 887.9 | 975.5 | 1076.7 | 1194.4 | 1314.8 | 1421.5 |
| 75° | 492.5 | 506.2 | 510.3 | 522.6 | 545.9 | 597.9 | 663.5 | 759.3 | 911.2 | 1090.4 | 1317.5 |
| 77.5° | 261.3 | 264.1 | 273.6 | 283.2 | 295.5 | 327.0 | 369.4 | 418.7 | 518.5 | 673.1 | 939.9 |
| 80° | 132.7 | 138.2 | 145.0 | 151.9 | 150.5 | 158.7 | 171.0 | 192.9 | 227.1 | 295.5 | 425.5 |
| 82.5° | 47.9 | 61.6 | 80.7 | 90.3 | 90.3 | 93.0 | 97.1 | 101.2 | 98.5 | 109.5 | 136.8 |
| 85° | 21.9 | 24.6 | 31.5 | 49.3 | 50.6 | 50.6 | 50.6 | 53.4 | 50.6 | 45.1 | 53.4 |
| 87.5° | 0.0 | 4.1 | 4.1 | 12.3 | 13.7 | 12.3 | 13.7 | 17.8 | 13.7 | 10.9 | 9.6 |
| 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: P141812

CATALOG NUMBER: CEM-E04-LED-E-U-T2-7060

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 83° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 |
| 2.5° | 1157.4 | 1154.7 | 1147.9 | 1145.1 | 1136.9 | 1131.5 | 1128.7 | 1126.0 | 1121.9 | 1116.4 | 1112.3 |
| 5° | 1208.1 | 1199.9 | 1190.3 | 1184.8 | 1173.9 | 1162.9 | 1158.8 | 1153.3 | 1143.8 | 1135.6 | 1126.0 |
| 7.5° | 1261.4 | 1251.8 | 1240.9 | 1228.6 | 1217.6 | 1205.3 | 1199.9 | 1194.4 | 1180.7 | 1169.8 | 1156.1 |
| 10° | 1318.9 | 1305.2 | 1292.9 | 1281.9 | 1272.4 | 1258.7 | 1249.1 | 1245.0 | 1232.7 | 1216.3 | 1202.6 |
| 12.5° | 1373.6 | 1358.6 | 1346.3 | 1332.6 | 1323.0 | 1312.0 | 1302.5 | 1298.4 | 1288.8 | 1273.7 | 1262.8 |
| 15° | 1431.1 | 1416.0 | 1402.3 | 1392.8 | 1381.8 | 1375.0 | 1369.5 | 1362.7 | 1358.6 | 1346.3 | 1340.8 |
| 17.5° | 1492.6 | 1479.0 | 1466.6 | 1458.4 | 1454.3 | 1453.0 | 1451.6 | 1448.9 | 1444.8 | 1436.5 | 1432.4 |
| 20° | 1562.4 | 1550.1 | 1546.0 | 1544.6 | 1546.0 | 1547.4 | 1550.1 | 1550.1 | 1551.5 | 1546.0 | 1544.6 |
| 22.5° | 1629.5 | 1629.5 | 1636.3 | 1644.5 | 1652.7 | 1658.2 | 1662.3 | 1656.8 | 1658.2 | 1666.4 | 1673.2 |
| 25° | 1703.3 | 1715.6 | 1733.4 | 1747.1 | 1759.4 | 1769.0 | 1774.5 | 1777.2 | 1780.0 | 1792.3 | 1804.6 |
| 27.5° | 1782.7 | 1801.8 | 1827.8 | 1845.6 | 1868.9 | 1883.9 | 1894.9 | 1893.5 | 1897.6 | 1914.0 | 1935.9 |
| 30° | 1881.2 | 1900.3 | 1927.7 | 1952.3 | 1983.8 | 2005.7 | 2009.8 | 2007.1 | 2012.5 | 2027.6 | 2071.4 |
| 32.5° | 2019.4 | 2023.5 | 2041.3 | 2065.9 | 2100.1 | 2122.0 | 2126.1 | 2132.9 | 2145.2 | 2172.6 | 2226.0 |
| 35° | 2213.7 | 2195.9 | 2194.5 | 2205.4 | 2238.3 | 2280.7 | 2284.8 | 2288.9 | 2294.4 | 2329.9 | 2401.1 |
| 37.5° | 2476.3 | 2403.8 | 2360.0 | 2325.8 | 2329.9 | 2345.0 | 2353.2 | 2355.9 | 2369.6 | 2424.3 | 2544.7 |
| 40° | 2806.1 | 2670.6 | 2573.5 | 2476.3 | 2440.8 | 2443.5 | 2446.2 | 2443.5 | 2470.9 | 2555.7 | 2713.0 |
| 42.5° | 3167.2 | 3048.2 | 2878.6 | 2677.5 | 2576.2 | 2543.4 | 2547.5 | 2550.2 | 2592.6 | 2715.8 | 2890.9 |
| 45° | 3550.3 | 3473.7 | 3276.7 | 2962.0 | 2744.5 | 2661.0 | 2658.3 | 2663.8 | 2733.5 | 2907.3 | 3092.0 |
| 47.5° | 3886.9 | 3906.0 | 3761.0 | 3391.6 | 3018.1 | 2806.1 | 2788.3 | 2797.8 | 2911.4 | 3097.5 | 3284.9 |
| 50° | 4153.7 | 4279.5 | 4268.6 | 3975.8 | 3461.4 | 3056.4 | 2993.5 | 3007.2 | 3141.3 | 3334.2 | 3502.4 |
| 52.5° | 4354.8 | 4610.6 | 4774.8 | 4658.5 | 4211.1 | 3510.6 | 3347.8 | 3324.6 | 3492.9 | 3696.7 | 3800.7 |
| 55° | 4488.9 | 4903.4 | 5334.4 | 5535.5 | 5353.5 | 4491.6 | 4066.1 | 4015.5 | 4197.5 | 4457.4 | 4502.6 |
| 57.5° | 4577.8 | 5259.1 | 6186.7 | 6963.8 | 7211.5 | 6472.7 | 5939.1 | 5727.0 | 5859.7 | 6134.7 | 6075.9 |
| 60° | 4430.0 | 5400.1 | 7215.6 | 8608.3 | 9312.9 | 9129.6 | 8535.8 | 8215.7 | 7968.1 | 7947.5 | 7620.5 |
| 62.5° | 3863.6 | 5064.9 | 7632.9 | 9390.9 | 10381.5 | 10609.9 | 10504.6 | 10125.6 | 9440.2 | 9059.8 | 8321.0 |
| 65° | 2914.1 | 4149.6 | 7336.0 | 9330.7 | 10259.7 | 10765.9 | 11109.3 | 10837.0 | 9797.3 | 9139.2 | 8156.9 |
| 67.5° | 1862.0 | 2678.8 | 6101.9 | 8607.0 | 9479.8 | 10049.0 | 10735.8 | 10611.3 | 9282.8 | 8442.8 | 7374.3 |
| 70° | 1359.9 | 1484.4 | 4140.0 | 7285.3 | 8245.8 | 8746.5 | 9690.5 | 9635.8 | 8140.4 | 7196.4 | 6137.5 |
| 72.5° | 1566.5 | 1106.8 | 2269.7 | 5442.5 | 6185.4 | 6579.4 | 7119.8 | 6987.1 | 5687.4 | 5032.0 | 4282.3 |
| 75° | 1766.3 | 1238.2 | 1279.2 | 3228.8 | 3455.9 | 3179.6 | 3253.4 | 2825.2 | 2204.1 | 1953.7 | 1925.0 |
| 77.5° | 1487.2 | 1552.8 | 1160.2 | 1387.3 | 1277.8 | 920.8 | 689.5 | 540.4 | 422.8 | 454.2 | 504.8 |
| 80° | 864.7 | 1745.7 | 1535.1 | 722.4 | 809.9 | 644.4 | 287.3 | 238.1 | 197.0 | 199.7 | 202.5 |
| 82.5° | 266.8 | 1090.4 | 2160.3 | 882.5 | 801.7 | 908.4 | 264.1 | 161.4 | 130.0 | 146.4 | 165.5 |
| 85° | 88.9 | 457.0 | 1732.1 | 926.2 | 518.5 | 484.3 | 116.3 | 79.4 | 65.7 | 91.7 | 130.0 |
| 87.5° | 21.9 | 110.8 | 321.5 | 121.8 | 76.6 | 46.5 | 39.7 | 28.7 | 31.5 | 57.5 | 80.7 |
| 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-E04-LED-E-U-T2-7060

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 | 1120.5 |
| 2.5° | 1109.6 | 1105.5 | 1101.4 | 1098.6 | 1094.5 | 1094.5 | 1090.4 | 1090.4 | 1084.9 | 1082.2 | 1082.2 |
| 5° | 1117.8 | 1109.6 | 1102.7 | 1095.9 | 1089.0 | 1086.3 | 1080.8 | 1078.1 | 1072.6 | 1068.5 | 1065.8 |
| 7.5° | 1145.1 | 1134.2 | 1126.0 | 1117.8 | 1109.6 | 1105.5 | 1100.0 | 1094.5 | 1093.1 | 1090.4 | 1087.7 |
| 10° | 1191.7 | 1176.6 | 1169.8 | 1164.3 | 1153.3 | 1150.6 | 1145.1 | 1141.0 | 1136.9 | 1132.8 | 1134.2 |
| 12.5° | 1251.8 | 1240.9 | 1238.2 | 1227.2 | 1224.5 | 1220.4 | 1212.2 | 1209.4 | 1198.5 | 1190.3 | 1186.2 |
| 15° | 1328.5 | 1324.4 | 1324.4 | 1318.9 | 1310.7 | 1303.8 | 1291.5 | 1284.7 | 1265.5 | 1253.2 | 1239.5 |
| 17.5° | 1429.7 | 1425.6 | 1427.0 | 1421.5 | 1411.9 | 1399.6 | 1385.9 | 1365.4 | 1336.7 | 1314.8 | 1287.4 |
| 20° | 1547.4 | 1546.0 | 1548.7 | 1544.6 | 1532.3 | 1515.9 | 1483.1 | 1453.0 | 1413.3 | 1373.6 | 1343.5 |
| 22.5° | 1678.7 | 1685.5 | 1688.3 | 1677.3 | 1663.7 | 1629.5 | 1593.9 | 1550.1 | 1496.7 | 1444.8 | 1402.3 |
| 25° | 1818.3 | 1834.7 | 1844.3 | 1829.2 | 1812.8 | 1769.0 | 1715.6 | 1656.8 | 1581.6 | 1518.6 | 1462.5 |
| 27.5° | 1955.1 | 1989.3 | 2003.0 | 1994.7 | 1968.8 | 1907.2 | 1836.0 | 1758.1 | 1666.4 | 1582.9 | 1510.4 |
| 30° | 2117.9 | 2163.0 | 2187.7 | 2175.3 | 2124.7 | 2044.0 | 1957.8 | 1852.5 | 1736.2 | 1636.3 | 1548.7 |
| 32.5° | 2288.9 | 2345.0 | 2362.8 | 2336.8 | 2262.9 | 2161.7 | 2049.5 | 1920.9 | 1789.5 | 1674.6 | 1576.1 |
| 35° | 2479.1 | 2531.1 | 2535.2 | 2484.5 | 2387.4 | 2258.8 | 2119.2 | 1964.6 | 1814.2 | 1685.5 | 1577.5 |
| 37.5° | 2644.6 | 2696.6 | 2692.5 | 2617.3 | 2499.6 | 2339.5 | 2161.7 | 1974.2 | 1799.1 | 1652.7 | 1535.1 |
| 40° | 2818.4 | 2875.8 | 2844.4 | 2747.2 | 2595.4 | 2391.5 | 2167.1 | 1941.4 | 1741.6 | 1581.6 | 1453.0 |
| 42.5° | 3001.7 | 3026.3 | 2970.2 | 2848.5 | 2652.8 | 2390.1 | 2120.6 | 1863.4 | 1651.3 | 1473.5 | 1338.0 |
| 45° | 3170.0 | 3150.8 | 3070.1 | 2907.3 | 2648.7 | 2331.3 | 2029.0 | 1766.3 | 1530.9 | 1353.1 | 1220.4 |
| 47.5° | 3320.5 | 3260.3 | 3135.8 | 2907.3 | 2584.4 | 2227.3 | 1911.3 | 1640.4 | 1406.4 | 1227.2 | 1095.9 |
| 50° | 3483.3 | 3357.4 | 3163.1 | 2856.7 | 2468.1 | 2101.5 | 1786.8 | 1514.5 | 1273.7 | 1090.4 | 946.8 |
| 52.5° | 3699.5 | 3473.7 | 3163.1 | 2765.0 | 2347.7 | 1974.2 | 1655.5 | 1368.1 | 1119.1 | 927.6 | 785.3 |
| 55° | 4205.7 | 3717.2 | 3217.9 | 2714.4 | 2241.0 | 1840.1 | 1499.5 | 1179.3 | 937.2 | 753.8 | 636.2 |
| 57.5° | 5200.3 | 4250.8 | 3492.9 | 2807.4 | 2201.3 | 1695.1 | 1298.4 | 970.0 | 740.2 | 586.9 | 488.4 |
| 60° | 6028.0 | 4681.8 | 3715.9 | 2878.6 | 2137.0 | 1507.7 | 1052.1 | 742.9 | 550.0 | 433.7 | 369.4 |
| 62.5° | 6241.5 | 4687.2 | 3624.2 | 2693.9 | 1877.1 | 1227.2 | 775.7 | 511.7 | 377.6 | 314.7 | 280.5 |
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| 70° | 3680.3 | 2320.4 | 1487.2 | 897.5 | 472.0 | 243.5 | 194.3 | 175.1 | 165.5 | 161.4 | 156.0 |
| 72.5° | 2268.4 | 1370.9 | 808.6 | 431.0 | 235.3 | 186.1 | 173.8 | 166.9 | 154.6 | 149.1 | 143.7 |
| 75° | 963.2 | 588.3 | 335.2 | 218.9 | 188.8 | 177.9 | 168.3 | 160.1 | 150.5 | 142.3 | 136.8 |
| 77.5° | 324.2 | 224.4 | 198.4 | 191.5 | 188.8 | 177.9 | 165.5 | 154.6 | 145.0 | 135.4 | 130.0 |
| 80° | 197.0 | 179.2 | 183.3 | 182.0 | 188.8 | 176.5 | 160.1 | 147.8 | 136.8 | 127.2 | 120.4 |
| 82.5° | 171.0 | 169.6 | 173.8 | 177.9 | 187.4 | 169.6 | 150.5 | 132.7 | 119.0 | 109.5 | 102.6 |
| 85° | 147.8 | 150.5 | 153.2 | 156.0 | 161.4 | 143.7 | 121.8 | 105.3 | 94.4 | 82.1 | 76.6 |
| 87.5° | 98.5 | 106.7 | 112.2 | 113.6 | 109.5 | 68.4 | 39.7 | 46.5 | 47.9 | 41.0 | 36.9 |
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