

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: PORTFOLIO

Report Number: P563810

Luminaire Tested: **LD4C25D010 EX4C259030 4LBSQLWWLI**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P563810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P219529)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C25D010 EX4C259030 4LBSQLWWLI
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH LI FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

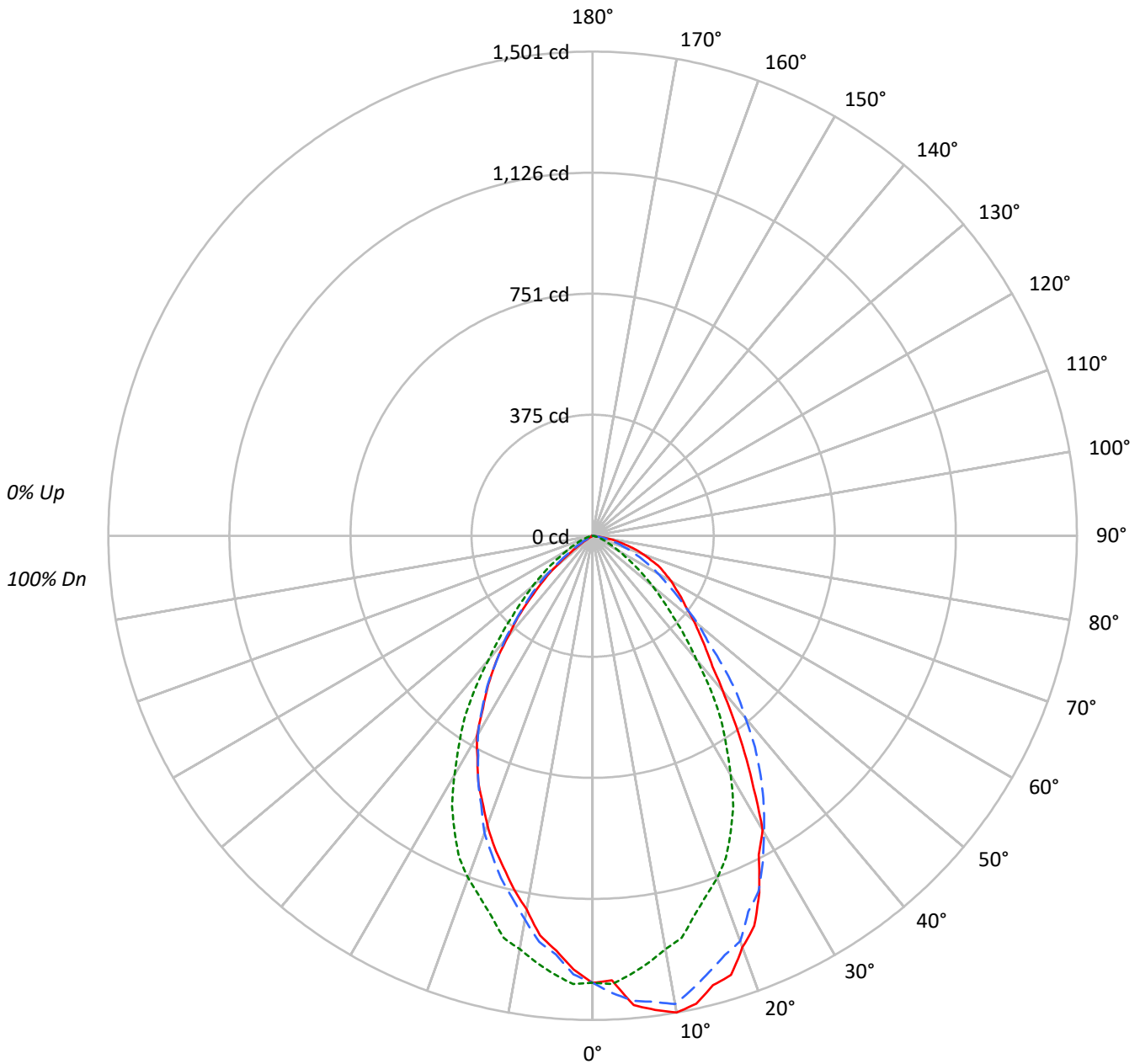
Lumens per Lamp: N/A
Luminaire Lumens: 1986.6 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1 / 1.06
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
Input Voltage (V):
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: 25 FT

TEST NUMBER: P563810

CATALOG NUMBER: LD4C25D010 EX4C259030 4LBSQLWWLI

Luminous Intensity Polar Plot





TEST NUMBER: P563810

CATALOG NUMBER: LD4C25D010 EX4C259030 4LBSQLWWLI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 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 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | |
| 1 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98 | 98 | 96 | 95 | 95 | 93 | 92 | 90 | | | |
| 2 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 88 | 93 | 89 | 86 | 90 | 87 | 84 | 87 | 84 | 82 | 80 | | | |
| 3 | 97 | 89 | 83 | 78 | 95 | 88 | 82 | 77 | 85 | 80 | 76 | 82 | 78 | 75 | 80 | 77 | 74 | 72 | | | |
| 4 | 91 | 81 | 74 | 69 | 89 | 80 | 74 | 69 | 78 | 72 | 68 | 76 | 71 | 67 | 74 | 70 | 66 | 64 | | | |
| 5 | 85 | 75 | 67 | 62 | 83 | 74 | 67 | 62 | 72 | 66 | 61 | 70 | 65 | 60 | 68 | 64 | 60 | 58 | | | |
| 6 | 80 | 69 | 61 | 56 | 78 | 68 | 61 | 56 | 66 | 60 | 55 | 65 | 59 | 55 | 63 | 58 | 54 | 53 | | | |
| 7 | 75 | 63 | 56 | 51 | 73 | 63 | 56 | 51 | 61 | 55 | 50 | 60 | 54 | 50 | 59 | 54 | 50 | 48 | | | |
| 8 | 70 | 59 | 52 | 47 | 69 | 58 | 51 | 46 | 57 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 46 | 44 | | | |
| 9 | 66 | 55 | 48 | 43 | 65 | 54 | 47 | 43 | 53 | 47 | 43 | 52 | 46 | 42 | 51 | 46 | 42 | 41 | | | |
| 10 | 62 | 51 | 44 | 40 | 61 | 51 | 44 | 40 | 50 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 38 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 133724 | 133724 | 133724 |
| 5° | 141480 | 132152 | 125062 |
| 10° | 147025 | 127488 | 115270 |
| 15° | 144085 | 121679 | 106406 |
| 20° | 139410 | 115866 | 97937 |
| 25° | 130045 | 107741 | 89344 |
| 30° | 117388 | 95350 | 79985 |
| 35° | 96695 | 81629 | 66352 |
| 40° | 78912 | 63004 | 51076 |
| 45° | 67805 | 47841 | 36748 |
| 50° | 61365 | 36417 | 23192 |
| 55° | 56473 | 26260 | 8378 |
| 60° | 54188 | 17966 | 1274 |
| 65° | 52352 | 12146 | 388 |
| 70° | 46859 | 8435 | 480 |
| 75° | 38399 | 4362 | 0 |
| 80° | 24004 | 1889 | 0 |
| 85° | 0 | 0 | 0 |



TEST NUMBER: P563810

CATALOG NUMBER: LD4C25D010 EX4C259030 4LBSQLWWLI

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 129.9 | 6.5 |
| 10°-20° | 349.8 | 17.6 |
| 20°-30° | 467.1 | 23.5 |
| 30°-40° | 443.5 | 22.3 |
| 40°-50° | 306.5 | 15.4 |
| 50°-60° | 169.4 | 8.5 |
| 60°-70° | 84.1 | 4.2 |
| 70°-80° | 33.1 | 1.7 |
| 80°-90° | 3.2 | 0.2 |
| 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°-30° | 946.8 | 47.7 |
| 0°-40° | 1390.3 | 70.0 |
| 0°-60° | 1866.2 | 93.9 |
| 0°-90° | 1986.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1986.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1386 | 1386 | 1386 | 1386 | 1386 | |
| 5° | 1461 | 1447 | 1364 | 1303 | 1291 | 140 |
| 15° | 1442 | 1399 | 1218 | 1098 | 1065 | 408 |
| 25° | 1222 | 1216 | 1012 | 839 | 839 | 557 |
| 35° | 821 | 907 | 693 | 570 | 563 | 514 |
| 45° | 497 | 570 | 351 | 288 | 269 | 388 |
| 55° | 336 | 316 | 156 | 80 | 50 | 302 |
| 65° | 229 | 166 | 53 | 2 | 2 | 223 |
| 75° | 103 | 63 | 12 | 0 | 0 | 110 |
| 85° | 0 | 2 | 0 | 0 | 0 | 9 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P563810

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 |
| 2.5° | 1379.2 | 1417.5 | 1420.8 | 1417.5 | 1422.5 | 1420.8 | 1429.2 | 1420.8 | 1430.8 | 1415.8 | 1419.2 |
| 5° | 1460.7 | 1445.7 | 1477.3 | 1460.7 | 1460.7 | 1459.1 | 1454.1 | 1452.4 | 1459.1 | 1437.4 | 1447.4 |
| 7.5° | 1482.3 | 1503.9 | 1532.2 | 1497.3 | 1498.9 | 1498.9 | 1489.0 | 1485.6 | 1485.6 | 1445.7 | 1457.3 |
| 10° | 1500.6 | 1487.2 | 1502.2 | 1489.0 | 1500.6 | 1498.9 | 1505.6 | 1483.9 | 1498.9 | 1475.7 | 1474.0 |
| 12.5° | 1485.6 | 1480.6 | 1500.6 | 1479.0 | 1472.4 | 1474.0 | 1465.7 | 1460.7 | 1465.7 | 1439.0 | 1437.4 |
| 15° | 1442.4 | 1447.4 | 1477.3 | 1454.1 | 1450.7 | 1447.4 | 1437.4 | 1420.8 | 1434.2 | 1397.5 | 1399.3 |
| 17.5° | 1427.5 | 1419.2 | 1424.2 | 1404.1 | 1409.2 | 1405.9 | 1404.1 | 1389.3 | 1385.9 | 1362.6 | 1362.6 |
| 20° | 1357.7 | 1376.0 | 1376.0 | 1362.6 | 1362.6 | 1361.0 | 1339.4 | 1352.7 | 1337.7 | 1331.1 | 1337.7 |
| 22.5° | 1309.4 | 1311.2 | 1311.2 | 1299.5 | 1301.2 | 1294.6 | 1282.9 | 1274.6 | 1282.9 | 1274.6 | 1261.3 |
| 25° | 1221.5 | 1224.7 | 1244.6 | 1223.1 | 1219.7 | 1226.3 | 1216.5 | 1211.4 | 1209.8 | 1189.8 | 1216.5 |
| 27.5° | 1115.1 | 1148.2 | 1146.6 | 1138.2 | 1148.2 | 1135.0 | 1130.0 | 1131.6 | 1136.6 | 1135.0 | 1141.6 |
| 30° | 1053.6 | 1058.5 | 1063.6 | 1056.9 | 1058.5 | 1053.6 | 1053.6 | 1055.2 | 1068.5 | 1063.6 | 1061.9 |
| 32.5° | 928.9 | 945.5 | 958.9 | 958.9 | 960.5 | 965.5 | 963.8 | 998.7 | 1007.0 | 990.4 | 987.1 |
| 35° | 820.9 | 832.6 | 844.2 | 845.8 | 867.5 | 869.1 | 870.8 | 880.7 | 904.0 | 909.0 | 907.3 |
| 37.5° | 717.9 | 729.5 | 732.8 | 747.8 | 759.4 | 771.0 | 784.4 | 797.7 | 817.6 | 834.2 | 826.0 |
| 40° | 626.5 | 631.5 | 639.8 | 646.4 | 669.6 | 669.6 | 676.3 | 703.0 | 724.6 | 737.9 | 736.1 |
| 42.5° | 550.1 | 551.7 | 558.3 | 570.0 | 591.6 | 586.6 | 591.6 | 609.9 | 641.4 | 643.1 | 661.4 |
| 45° | 496.9 | 495.2 | 500.2 | 501.8 | 515.2 | 521.8 | 525.2 | 538.4 | 565.0 | 568.3 | 570.0 |
| 47.5° | 448.7 | 447.1 | 455.3 | 458.7 | 463.6 | 470.3 | 470.3 | 472.0 | 481.9 | 490.3 | 483.6 |
| 50° | 408.8 | 408.8 | 408.8 | 412.1 | 420.4 | 418.8 | 420.4 | 427.1 | 432.0 | 428.7 | 427.1 |
| 52.5° | 365.6 | 372.2 | 377.2 | 378.9 | 380.5 | 380.5 | 382.3 | 378.9 | 377.2 | 372.2 | 362.2 |
| 55° | 335.7 | 342.3 | 342.3 | 342.3 | 342.3 | 349.0 | 340.7 | 342.3 | 342.3 | 329.1 | 315.7 |
| 57.5° | 305.8 | 312.5 | 317.4 | 310.8 | 317.4 | 310.8 | 307.4 | 305.8 | 302.4 | 289.1 | 269.3 |
| 60° | 280.8 | 284.2 | 282.5 | 280.8 | 284.2 | 279.2 | 275.9 | 269.3 | 265.9 | 247.6 | 234.4 |
| 62.5° | 252.6 | 254.2 | 255.9 | 252.6 | 249.3 | 247.6 | 241.0 | 231.0 | 224.4 | 209.3 | 197.7 |
| 65° | 229.3 | 224.4 | 222.7 | 221.0 | 217.7 | 212.7 | 207.7 | 196.1 | 191.1 | 177.8 | 166.1 |
| 67.5° | 194.4 | 192.8 | 196.1 | 191.1 | 182.8 | 182.8 | 177.8 | 167.8 | 156.1 | 147.9 | 136.3 |
| 70° | 166.1 | 164.5 | 161.2 | 156.1 | 154.5 | 147.9 | 147.9 | 136.3 | 132.9 | 118.0 | 108.0 |
| 72.5° | 136.3 | 136.3 | 131.2 | 126.3 | 121.3 | 118.0 | 116.4 | 108.0 | 103.0 | 94.7 | 86.4 |
| 75° | 103.0 | 103.0 | 101.4 | 96.3 | 93.1 | 89.7 | 88.1 | 81.5 | 76.4 | 68.2 | 63.2 |
| 77.5° | 73.1 | 73.1 | 66.4 | 63.2 | 64.8 | 61.4 | 58.2 | 56.6 | 54.8 | 49.8 | 43.2 |
| 80° | 43.2 | 41.5 | 36.6 | 38.2 | 36.6 | 36.6 | 34.9 | 33.2 | 29.9 | 26.5 | 23.2 |
| 82.5° | 11.7 | 13.3 | 13.3 | 13.3 | 15.0 | 11.7 | 11.7 | 11.7 | 13.3 | 13.3 | 8.3 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 | 1.7 |
| 87.5° | 1.7 | 3.4 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 5.0 | 5.0 | 5.0 | 3.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P563810

CATALOG NUMBER: LD4C25D010 EX4C259030 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 |
| 2.5° | 1402.5 | 1400.9 | 1402.5 | 1390.9 | 1417.5 | 1397.5 | 1394.3 | 1390.9 | 1402.5 | 1390.9 | 1374.3 |
| 5° | 1432.4 | 1415.8 | 1410.9 | 1405.9 | 1420.8 | 1397.5 | 1392.5 | 1394.3 | 1385.9 | 1364.4 | 1366.0 |
| 7.5° | 1442.4 | 1427.5 | 1412.5 | 1381.0 | 1394.3 | 1389.3 | 1376.0 | 1366.0 | 1352.7 | 1334.4 | 1331.1 |
| 10° | 1445.7 | 1429.2 | 1407.5 | 1397.5 | 1377.6 | 1371.0 | 1366.0 | 1349.4 | 1332.7 | 1301.2 | 1292.9 |
| 12.5° | 1435.8 | 1415.8 | 1389.3 | 1381.0 | 1366.0 | 1344.3 | 1332.7 | 1316.1 | 1301.2 | 1276.3 | 1258.0 |
| 15° | 1392.5 | 1376.0 | 1367.6 | 1339.4 | 1332.7 | 1319.4 | 1296.2 | 1272.9 | 1251.4 | 1218.1 | 1208.1 |
| 17.5° | 1342.7 | 1336.1 | 1327.8 | 1306.2 | 1304.6 | 1291.2 | 1269.6 | 1249.6 | 1221.5 | 1169.9 | 1153.3 |
| 20° | 1291.2 | 1291.2 | 1264.6 | 1256.3 | 1272.9 | 1246.3 | 1229.7 | 1211.4 | 1153.3 | 1128.4 | 1098.5 |
| 22.5° | 1253.0 | 1234.7 | 1219.7 | 1206.5 | 1208.1 | 1191.4 | 1168.3 | 1131.6 | 1110.1 | 1080.2 | 1045.3 |
| 25° | 1178.2 | 1184.8 | 1151.7 | 1146.6 | 1151.7 | 1113.3 | 1101.7 | 1071.8 | 1040.3 | 1012.0 | 985.5 |
| 27.5° | 1131.6 | 1113.3 | 1091.9 | 1073.6 | 1073.6 | 1058.5 | 1025.3 | 1018.7 | 970.4 | 943.9 | 910.6 |
| 30° | 1061.9 | 1048.6 | 1030.3 | 1003.8 | 1000.4 | 988.7 | 962.2 | 945.5 | 895.7 | 855.8 | 837.6 |
| 32.5° | 973.8 | 968.8 | 953.8 | 923.9 | 914.1 | 900.6 | 867.5 | 839.2 | 816.0 | 771.0 | 749.5 |
| 35° | 910.6 | 892.4 | 860.9 | 835.8 | 827.6 | 804.3 | 777.6 | 757.7 | 732.8 | 693.0 | 664.7 |
| 37.5° | 816.0 | 797.7 | 767.7 | 737.9 | 737.9 | 714.6 | 678.0 | 658.1 | 623.1 | 599.8 | 576.7 |
| 40° | 732.8 | 709.6 | 679.7 | 644.8 | 639.8 | 606.6 | 591.6 | 558.3 | 536.8 | 500.2 | 496.9 |
| 42.5° | 639.8 | 618.2 | 591.6 | 565.0 | 545.0 | 528.4 | 490.3 | 465.3 | 442.1 | 423.8 | 418.8 |
| 45° | 555.0 | 526.8 | 503.5 | 470.3 | 450.3 | 430.4 | 405.5 | 388.9 | 370.6 | 350.6 | 339.0 |
| 47.5° | 481.9 | 458.7 | 425.4 | 395.5 | 375.6 | 365.6 | 337.3 | 319.1 | 304.1 | 290.8 | 282.5 |
| 50° | 407.2 | 378.9 | 360.6 | 327.3 | 324.0 | 300.8 | 277.5 | 262.5 | 254.2 | 242.6 | 231.0 |
| 52.5° | 350.6 | 324.0 | 299.1 | 274.2 | 260.9 | 252.6 | 231.0 | 216.1 | 204.5 | 196.1 | 189.5 |
| 55° | 295.8 | 272.5 | 252.6 | 227.6 | 219.3 | 207.7 | 182.8 | 179.5 | 167.8 | 156.1 | 147.9 |
| 57.5° | 254.2 | 232.6 | 209.3 | 192.8 | 177.8 | 169.6 | 149.5 | 136.3 | 129.6 | 119.6 | 111.3 |
| 60° | 216.1 | 192.8 | 174.4 | 154.5 | 147.9 | 136.3 | 121.3 | 109.7 | 101.4 | 93.1 | 84.7 |
| 62.5° | 181.2 | 161.2 | 141.3 | 124.6 | 114.6 | 108.0 | 96.3 | 86.4 | 78.1 | 71.5 | 64.8 |
| 65° | 149.5 | 131.2 | 114.6 | 98.1 | 93.1 | 84.7 | 76.4 | 68.2 | 61.4 | 53.2 | 46.6 |
| 67.5° | 123.0 | 106.4 | 89.7 | 78.1 | 73.1 | 69.8 | 59.8 | 51.5 | 46.6 | 41.5 | 34.9 |
| 70° | 96.3 | 84.7 | 71.5 | 61.4 | 56.6 | 51.5 | 44.9 | 39.9 | 33.2 | 29.9 | 24.9 |
| 72.5° | 74.8 | 64.8 | 53.2 | 44.9 | 41.5 | 38.2 | 31.5 | 26.5 | 23.2 | 19.9 | 16.6 |
| 75° | 53.2 | 44.9 | 38.2 | 29.9 | 28.3 | 26.5 | 21.6 | 18.3 | 15.0 | 11.7 | 10.0 |
| 77.5° | 36.6 | 29.9 | 23.2 | 19.9 | 18.3 | 15.0 | 13.3 | 10.0 | 8.3 | 6.6 | 5.0 |
| 80° | 19.9 | 15.0 | 11.7 | 10.0 | 8.3 | 6.6 | 6.6 | 5.0 | 3.4 | 3.4 | 1.7 |
| 82.5° | 6.6 | 5.0 | 3.4 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 0.0 | 1.7 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P563810

CATALOG NUMBER: LD4C25D010 EX4C259030 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 |
| 2.5° | 1384.3 | 1366.0 | 1371.0 | 1371.0 | 1367.6 | 1367.6 | 1364.4 | 1359.3 | 1361.0 | 1351.0 | 1329.5 |
| 5° | 1369.3 | 1346.1 | 1342.7 | 1346.1 | 1332.7 | 1329.5 | 1322.8 | 1332.7 | 1302.8 | 1314.4 | 1301.2 |
| 7.5° | 1326.1 | 1304.6 | 1299.5 | 1311.2 | 1294.6 | 1284.5 | 1282.9 | 1296.2 | 1269.6 | 1256.3 | 1241.4 |
| 10° | 1277.9 | 1269.6 | 1254.6 | 1246.3 | 1241.4 | 1243.0 | 1229.7 | 1213.1 | 1208.1 | 1204.8 | 1191.4 |
| 12.5° | 1234.7 | 1216.5 | 1203.1 | 1193.2 | 1189.8 | 1189.8 | 1168.3 | 1164.9 | 1149.9 | 1146.6 | 1126.8 |
| 15° | 1183.1 | 1161.6 | 1153.3 | 1140.0 | 1128.4 | 1135.0 | 1110.1 | 1103.4 | 1098.5 | 1076.8 | 1080.2 |
| 17.5° | 1138.2 | 1115.1 | 1095.1 | 1086.8 | 1076.8 | 1066.8 | 1043.5 | 1048.6 | 1036.9 | 1036.9 | 1007.0 |
| 20° | 1080.2 | 1055.2 | 1040.3 | 1023.6 | 1023.6 | 1010.4 | 993.8 | 995.4 | 980.4 | 965.5 | 938.9 |
| 22.5° | 1018.7 | 992.1 | 973.8 | 967.2 | 950.6 | 947.2 | 927.3 | 922.3 | 902.4 | 904.0 | 880.7 |
| 25° | 953.8 | 927.3 | 902.4 | 904.0 | 889.0 | 882.4 | 870.8 | 847.5 | 839.2 | 829.2 | 822.6 |
| 27.5° | 877.4 | 859.1 | 837.6 | 835.8 | 807.7 | 809.3 | 794.3 | 787.7 | 767.7 | 772.8 | 757.7 |
| 30° | 807.7 | 781.1 | 761.1 | 756.1 | 744.5 | 741.1 | 717.9 | 707.9 | 711.2 | 697.9 | 689.7 |
| 32.5° | 736.1 | 696.3 | 687.9 | 678.0 | 671.4 | 663.0 | 646.4 | 653.0 | 638.1 | 641.4 | 628.1 |
| 35° | 641.4 | 624.8 | 603.2 | 603.2 | 596.6 | 589.9 | 578.3 | 585.0 | 570.0 | 563.3 | 550.1 |
| 37.5° | 561.7 | 546.7 | 525.2 | 531.8 | 520.1 | 510.1 | 500.2 | 501.8 | 488.6 | 486.9 | 473.6 |
| 40° | 475.2 | 466.9 | 452.0 | 452.0 | 443.7 | 443.7 | 438.7 | 433.7 | 425.4 | 415.4 | 400.5 |
| 42.5° | 393.9 | 387.1 | 380.5 | 382.3 | 370.6 | 380.5 | 367.2 | 375.6 | 349.0 | 347.4 | 337.3 |
| 45° | 333.9 | 319.1 | 320.7 | 314.1 | 307.4 | 310.8 | 299.1 | 302.4 | 287.5 | 284.2 | 274.2 |
| 47.5° | 270.9 | 265.9 | 255.9 | 252.6 | 252.6 | 247.6 | 242.6 | 241.0 | 234.4 | 226.0 | 212.7 |
| 50° | 222.7 | 204.5 | 201.0 | 196.1 | 192.8 | 192.8 | 186.1 | 176.2 | 177.8 | 169.6 | 156.1 |
| 52.5° | 174.4 | 159.5 | 152.9 | 151.3 | 144.6 | 141.3 | 132.9 | 126.3 | 121.3 | 118.0 | 109.7 |
| 55° | 134.6 | 121.3 | 113.0 | 113.0 | 103.0 | 103.0 | 91.4 | 86.4 | 79.7 | 73.1 | 68.2 |
| 57.5° | 101.4 | 94.7 | 86.4 | 79.7 | 76.4 | 68.2 | 61.4 | 53.2 | 48.2 | 38.2 | 31.5 |
| 60° | 76.4 | 69.8 | 61.4 | 56.6 | 53.2 | 44.9 | 36.6 | 29.9 | 18.3 | 15.0 | 13.3 |
| 62.5° | 56.6 | 49.8 | 41.5 | 38.2 | 34.9 | 28.3 | 19.9 | 10.0 | 5.0 | 5.0 | 5.0 |
| 65° | 41.5 | 33.2 | 26.5 | 23.2 | 19.9 | 15.0 | 6.6 | 3.4 | 1.7 | 1.7 | 1.7 |
| 67.5° | 28.3 | 21.6 | 15.0 | 13.3 | 10.0 | 5.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 70° | 18.3 | 13.3 | 6.6 | 5.0 | 3.4 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 72.5° | 11.7 | 6.6 | 3.4 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 6.6 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 3.4 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 | 1.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P563810

CATALOG NUMBER: LD4C25D010 EX4C259030 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 | 1385.9 |
| 2.5° | 1352.7 | 1341.1 | 1347.7 | 1332.7 | 1339.4 | 1351.0 | 1342.7 | 1346.1 |
| 5° | 1306.2 | 1299.5 | 1291.2 | 1269.6 | 1286.2 | 1299.5 | 1292.9 | 1291.2 |
| 7.5° | 1256.3 | 1233.0 | 1244.6 | 1238.0 | 1234.7 | 1248.0 | 1233.0 | 1249.6 |
| 10° | 1204.8 | 1188.2 | 1186.6 | 1174.9 | 1174.9 | 1184.8 | 1186.6 | 1176.5 |
| 12.5° | 1128.4 | 1120.0 | 1120.0 | 1118.4 | 1116.7 | 1126.8 | 1128.4 | 1123.4 |
| 15° | 1073.6 | 1070.2 | 1061.9 | 1060.2 | 1050.3 | 1065.2 | 1066.8 | 1065.2 |
| 17.5° | 1007.0 | 1008.7 | 1000.4 | 1000.4 | 1007.0 | 1012.0 | 998.7 | 1012.0 |
| 20° | 962.2 | 953.8 | 950.6 | 935.5 | 943.9 | 952.2 | 952.2 | 953.8 |
| 22.5° | 897.4 | 884.0 | 889.0 | 880.7 | 875.7 | 887.4 | 887.4 | 892.4 |
| 25° | 824.2 | 824.2 | 827.6 | 822.6 | 826.0 | 832.6 | 827.6 | 839.2 |
| 27.5° | 754.5 | 761.1 | 761.1 | 754.5 | 757.7 | 777.6 | 786.0 | 772.8 |
| 30° | 689.7 | 691.3 | 696.3 | 693.0 | 703.0 | 709.6 | 707.9 | 717.9 |
| 32.5° | 616.5 | 624.8 | 628.1 | 623.1 | 626.5 | 641.4 | 633.1 | 631.5 |
| 35° | 560.1 | 545.0 | 543.4 | 545.0 | 551.7 | 555.0 | 551.7 | 563.3 |
| 37.5° | 478.6 | 473.6 | 466.9 | 468.6 | 473.6 | 480.3 | 483.6 | 491.9 |
| 40° | 400.5 | 393.9 | 393.9 | 392.2 | 387.1 | 405.5 | 405.5 | 405.5 |
| 42.5° | 332.3 | 330.7 | 322.4 | 322.4 | 329.1 | 333.9 | 330.7 | 342.3 |
| 45° | 272.5 | 265.9 | 260.9 | 260.9 | 265.9 | 265.9 | 270.9 | 269.3 |
| 47.5° | 214.4 | 207.7 | 209.3 | 204.5 | 209.3 | 216.1 | 207.7 | 209.3 |
| 50° | 161.2 | 161.2 | 157.9 | 161.2 | 159.5 | 161.2 | 157.9 | 154.5 |
| 52.5° | 109.7 | 124.6 | 126.3 | 119.6 | 104.7 | 91.4 | 83.1 | 89.7 |
| 55° | 63.2 | 56.6 | 56.6 | 54.8 | 51.5 | 49.8 | 44.9 | 49.8 |
| 57.5° | 31.5 | 28.3 | 28.3 | 28.3 | 26.5 | 24.9 | 21.6 | 21.6 |
| 60° | 13.3 | 11.7 | 11.7 | 10.0 | 8.3 | 6.6 | 5.0 | 6.6 |
| 62.5° | 5.0 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 65° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 67.5° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 70° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)