

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1324340

Luminaire Tested: LDSQA3D05R20W2N902750DE010 3LSQCA45R 1MMS_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1324340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-74)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R20W2N902750DE010 3LSQCA45R 1MMS_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 5000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

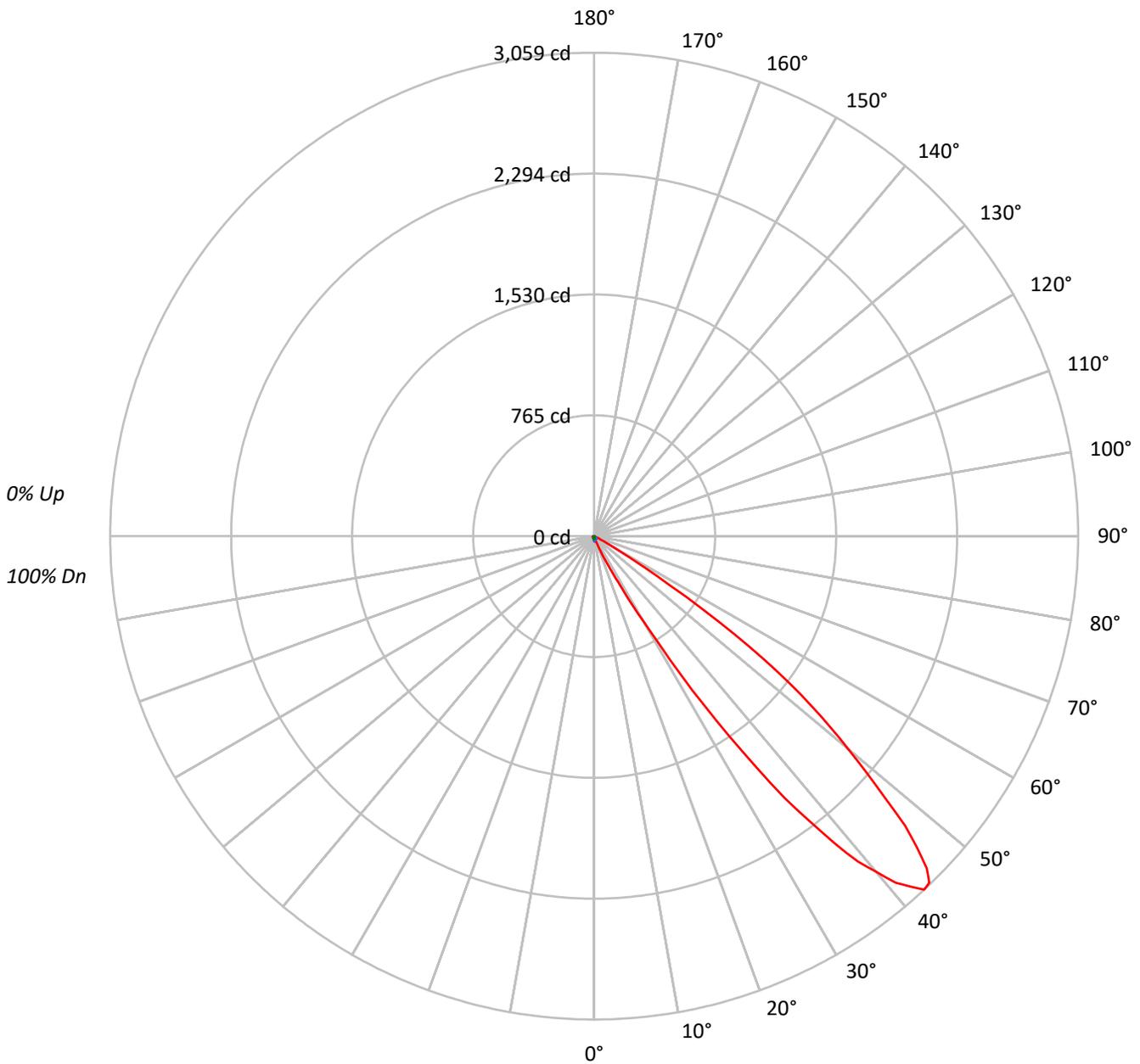
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 425.1 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.13
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 5.9
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: 24 FT

TEST NUMBER: P1324340
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Luminous Intensity Polar Plot



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



TEST NUMBER: P1324340

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF | 20 | | | | 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 | 100 | 100 | 100 |
| 1 | 110 | 106 | 102 | 99 | 108 | 104 | 101 | 97 | 100 | 97 | 94 | 96 | 94 | 92 | 92 | 91 | 89 | 87 | 87 | 87 | 87 |
| 2 | 101 | 93 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 78 | 75 | 73 | 73 | 73 | 73 |
| 3 | 92 | 81 | 74 | 67 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 65 | 72 | 67 | 63 | 61 | 61 | 61 | 61 |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 | 51 | 51 | 51 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 53 | 46 | 59 | 51 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 | 42 | 42 | 42 |
| 6 | 68 | 55 | 45 | 39 | 66 | 54 | 45 | 38 | 52 | 44 | 38 | 50 | 43 | 38 | 48 | 42 | 37 | 35 | 35 | 35 | 35 |
| 7 | 62 | 48 | 39 | 32 | 60 | 47 | 38 | 32 | 46 | 38 | 32 | 44 | 37 | 32 | 43 | 36 | 31 | 29 | 29 | 29 | 29 |
| 8 | 57 | 42 | 33 | 27 | 55 | 42 | 33 | 27 | 40 | 33 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 25 | 25 | 25 | 25 |
| 9 | 52 | 38 | 29 | 23 | 51 | 37 | 29 | 23 | 36 | 28 | 23 | 35 | 28 | 23 | 34 | 27 | 23 | 21 | 21 | 21 | 21 |
| 10 | 48 | 34 | 25 | 20 | 47 | 33 | 25 | 20 | 32 | 25 | 19 | 31 | 24 | 19 | 30 | 24 | 19 | 17 | 17 | 17 | 17 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|------|------|------|------|
| 0° | 5098 | 5098 | 5098 | 5098 | 5098 |
| 5° | 5930 | 5532 | 4772 | 4149 | 4011 |
| 10° | 5858 | 5037 | 3777 | 3218 | 3148 |
| 15° | 5135 | 3851 | 2781 | 2567 | 2710 |
| 20° | 7606 | 3226 | 2053 | 2199 | 2419 |
| 25° | 32780 | 3344 | 1596 | 1976 | 2356 |
| 30° | 123993 | 4057 | 1352 | 1909 | 2307 |
| 35° | 375855 | 4878 | 1261 | 1934 | 2439 |
| 40° | 623248 | 4856 | 1079 | 2068 | 2608 |
| 45° | 724419 | 3312 | 974 | 2143 | 2825 |
| 50° | 562333 | 1822 | 965 | 2251 | 3215 |
| 55° | 325483 | 1201 | 961 | 2522 | 3483 |
| 60° | 55042 | 276 | 827 | 2618 | 3858 |
| 65° | 4238 | 0 | 978 | 2934 | 4401 |
| 70° | 604 | 0 | 1209 | 3223 | 5035 |
| 75° | 532 | 266 | 1331 | 3726 | 5856 |
| 80° | 397 | 397 | 1984 | 3967 | 6744 |
| 85° | 790 | 790 | 3162 | 3952 | 7114 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 724419 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 2.5 | 0.6 |
| 10°-20° | 5.3 | 1.3 |
| 20°-30° | 17.0 | 4.0 |
| 30°-40° | 108.4 | 25.5 |
| 40°-50° | 198.4 | 46.7 |
| 50°-60° | 81.5 | 19.2 |
| 60°-70° | 6.9 | 1.6 |
| 70°-80° | 3.4 | 0.8 |
| 80°-90° | 1.6 | 0.4 |
| 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° | 24.8 | 5.8 |
| 0°-40° | 133.2 | 31.3 |
| 0°-60° | 413.1 | 97.2 |
| 0°-90° | 425.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 425.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 30 | 30 | 30 | 30 | 30 | |
| 5° | 34 | 32 | 28 | 24 | 23 | 3 |
| 15° | 29 | 22 | 16 | 14 | 15 | 9 |
| 25° | 172 | 18 | 8 | 10 | 12 | 113 |
| 35° | 1788 | 23 | 6 | 9 | 12 | 1132 |
| 45° | 2974 | 14 | 4 | 9 | 12 | 2136 |
| 55° | 1084 | 4 | 3 | 8 | 12 | 948 |
| 65° | 10 | 0 | 2 | 7 | 11 | 34 |
| 75° | 1 | 0 | 2 | 6 | 9 | 1 |
| 85° | 0 | 0 | 2 | 2 | 4 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1324340

CATALOG NUMBER: LDSQA3D05R20W2N902750DE010 3LSQCA45R 1MMS_5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|
| 0° | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 |
| 2.5° | 32.4 | 32.4 | 32.4 | 32.0 | 32.0 | 32.4 | 32.0 | 32.0 | 32.0 | 32.0 | 31.6 |
| 5° | 34.3 | 34.3 | 34.3 | 34.3 | 34.3 | 34.3 | 34.3 | 33.9 | 33.9 | 33.5 | 32.0 |
| 7.5° | 35.1 | 35.1 | 35.1 | 35.1 | 34.7 | 34.7 | 34.7 | 34.7 | 34.3 | 33.9 | 31.2 |
| 10° | 33.5 | 33.5 | 33.5 | 33.2 | 33.2 | 33.2 | 32.8 | 32.8 | 32.4 | 32.0 | 28.8 |
| 12.5° | 30.4 | 30.4 | 30.4 | 30.4 | 30.0 | 30.0 | 29.6 | 29.6 | 29.2 | 28.8 | 25.2 |
| 15° | 28.8 | 28.8 | 28.8 | 28.4 | 28.4 | 28.0 | 27.6 | 27.2 | 26.8 | 26.0 | 21.6 |
| 17.5° | 31.2 | 31.2 | 30.8 | 30.8 | 30.0 | 29.2 | 28.8 | 27.6 | 26.8 | 25.6 | 19.2 |
| 20° | 41.5 | 41.9 | 40.3 | 39.1 | 38.3 | 35.9 | 34.7 | 32.8 | 31.2 | 29.2 | 17.6 |
| 22.5° | 83.9 | 82.3 | 79.5 | 75.1 | 69.9 | 65.5 | 57.5 | 51.1 | 46.7 | 40.7 | 17.2 |
| 25° | 172.5 | 170.9 | 163.4 | 157.0 | 141.0 | 128.6 | 111.4 | 97.5 | 83.1 | 69.1 | 17.6 |
| 27.5° | 327.9 | 317.1 | 315.1 | 286.0 | 263.6 | 231.7 | 198.5 | 170.5 | 145.0 | 116.6 | 18.8 |
| 30° | 623.5 | 611.1 | 567.5 | 523.6 | 463.3 | 395.0 | 329.9 | 269.2 | 218.5 | 172.5 | 20.4 |
| 31° | 791.2 | 803.2 | 752.1 | 663.8 | 574.7 | 487.3 | 398.2 | 321.1 | 255.6 | 198.5 | 21.2 |
| 32° | 1040.0 | 987.7 | 933.8 | 843.1 | 713.7 | 601.9 | 490.1 | 379.0 | 292.8 | 226.5 | 22.0 |
| 33° | 1275.3 | 1244.5 | 1162.3 | 1049.2 | 893.9 | 736.9 | 591.9 | 447.3 | 338.3 | 260.4 | 22.4 |
| 34° | 1526.1 | 1492.2 | 1425.5 | 1263.3 | 1092.8 | 887.1 | 693.8 | 526.0 | 392.6 | 293.6 | 22.8 |
| 35° | 1787.7 | 1773.3 | 1644.7 | 1504.1 | 1294.5 | 1046.4 | 816.4 | 612.3 | 445.7 | 323.9 | 23.2 |
| 36° | 2050.9 | 2004.6 | 1903.9 | 1698.6 | 1479.8 | 1193.8 | 945.0 | 692.6 | 499.6 | 359.9 | 23.2 |
| 37° | 2249.0 | 2238.6 | 2105.2 | 1905.1 | 1647.9 | 1351.2 | 1056.0 | 781.6 | 554.0 | 390.6 | 23.2 |
| 38° | 2467.5 | 2426.4 | 2291.0 | 2087.3 | 1806.1 | 1495.4 | 1172.2 | 859.1 | 605.5 | 418.6 | 22.8 |
| 39° | 2651.6 | 2590.5 | 2453.9 | 2252.6 | 1944.3 | 1604.8 | 1264.5 | 934.2 | 651.0 | 441.7 | 22.4 |
| 40° | 2772.2 | 2729.9 | 2587.3 | 2360.9 | 2069.7 | 1708.2 | 1358.0 | 996.1 | 685.0 | 459.3 | 21.6 |
| 41° | 2905.2 | 2834.9 | 2694.0 | 2466.3 | 2160.8 | 1799.3 | 1416.7 | 1036.8 | 711.3 | 470.9 | 20.8 |
| 42° | 2984.7 | 2927.2 | 2759.9 | 2537.0 | 2225.9 | 1851.2 | 1464.6 | 1068.0 | 727.3 | 476.9 | 19.2 |
| 43° | 3059.0 | 2980.7 | 2817.8 | 2578.1 | 2269.0 | 1888.0 | 1486.6 | 1082.4 | 730.9 | 476.9 | 17.2 |
| 44° | 3049.0 | 2974.7 | 2805.8 | 2583.7 | 2278.6 | 1898.7 | 1495.8 | 1082.8 | 725.3 | 470.9 | 15.2 |
| 45° | 2974.3 | 2900.4 | 2748.3 | 2535.0 | 2244.2 | 1877.6 | 1477.4 | 1066.8 | 709.7 | 460.5 | 13.6 |
| 46° | 2837.3 | 2763.8 | 2647.2 | 2453.5 | 2180.3 | 1829.7 | 1434.6 | 1032.1 | 683.8 | 443.7 | 12.0 |
| 47° | 2688.4 | 2616.9 | 2497.4 | 2322.1 | 2071.3 | 1744.2 | 1372.7 | 983.3 | 647.4 | 419.4 | 10.8 |
| 48° | 2472.3 | 2427.6 | 2307.7 | 2158.0 | 1919.9 | 1610.4 | 1264.1 | 903.8 | 598.7 | 387.8 | 9.2 |
| 49° | 2281.4 | 2234.2 | 2129.2 | 1968.2 | 1722.6 | 1454.6 | 1134.3 | 807.2 | 535.2 | 352.7 | 8.0 |
| 50° | 2098.8 | 2057.7 | 1960.7 | 1778.9 | 1544.5 | 1266.5 | 959.0 | 685.4 | 455.3 | 309.1 | 6.8 |
| 51° | 1920.3 | 1889.6 | 1790.5 | 1623.6 | 1385.5 | 1121.9 | 830.8 | 570.7 | 376.2 | 256.4 | 6.4 |
| 52° | 1741.0 | 1737.4 | 1630.0 | 1461.0 | 1231.0 | 977.7 | 706.1 | 481.7 | 319.1 | 215.3 | 6.0 |
| 53° | 1548.1 | 1524.9 | 1431.1 | 1279.3 | 1058.4 | 827.6 | 598.7 | 406.2 | 274.8 | 183.3 | 5.2 |
| 54° | 1328.4 | 1302.4 | 1201.8 | 1064.8 | 864.7 | 677.8 | 482.5 | 328.3 | 228.9 | 155.0 | 4.8 |
| 55° | 1084.0 | 1039.6 | 966.5 | 826.0 | 675.4 | 517.2 | 372.6 | 260.0 | 182.9 | 129.0 | 4.0 |
| 56° | 822.4 | 778.0 | 736.9 | 633.4 | 495.7 | 385.8 | 277.6 | 199.3 | 143.0 | 101.8 | 3.6 |
| 57° | 571.9 | 569.5 | 502.0 | 422.6 | 331.5 | 262.8 | 190.1 | 140.6 | 101.0 | 79.1 | 2.8 |
| 58° | 371.0 | 358.7 | 315.5 | 269.6 | 216.9 | 164.2 | 122.2 | 95.5 | 68.7 | 53.9 | 2.4 |
| 59° | 260.0 | 235.2 | 212.1 | 179.7 | 136.6 | 103.4 | 78.7 | 61.1 | 47.5 | 37.5 | 1.6 |
| 60° | 159.8 | 154.6 | 139.0 | 109.4 | 88.7 | 73.1 | 58.7 | 45.1 | 34.7 | 26.8 | 0.8 |
| 62.5° | 45.5 | 46.3 | 41.9 | 37.1 | 32.0 | 27.6 | 24.8 | 21.2 | 17.6 | 14.0 | 0.0 |
| 65° | 10.4 | 10.0 | 10.8 | 10.0 | 9.2 | 9.2 | 8.0 | 7.2 | 6.4 | 6.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 67.5° | 3.2 | 3.2 | 2.8 | 2.8 | 2.8 | 2.4 | 2.4 | 2.0 | 2.0 | 1.6 | 0.0 |
| 70° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.0 |
| 72.5° | 1.2 | 1.2 | 1.2 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 |
| 75° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 |
| 77.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 |
| 80° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 82.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 85° | 0.4 | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 0.4 | 0.4 | 0.4 | 0.0 | 0.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 |
| 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: P1324340

CATALOG NUMBER: LDSQA3D05R20W2N902750DE010 3LSQCA45R 1MMS_5000K

CANDELA DISTRIBUTION (continued):

| | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0° | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 |
| 2.5° | 30.8 | 29.2 | 28.0 | 26.8 | 26.4 | 26.4 |
| 5° | 30.0 | 27.6 | 25.2 | 24.0 | 23.2 | 23.2 |
| 7.5° | 27.6 | 24.8 | 22.4 | 21.2 | 20.8 | 20.8 |
| 10° | 24.8 | 21.6 | 19.2 | 18.4 | 18.4 | 18.0 |
| 12.5° | 21.6 | 18.4 | 16.8 | 16.4 | 16.4 | 16.4 |
| 15° | 18.0 | 15.6 | 14.4 | 14.4 | 14.8 | 15.2 |
| 17.5° | 15.2 | 12.8 | 12.4 | 13.2 | 14.0 | 14.0 |
| 20° | 12.8 | 11.2 | 11.2 | 12.0 | 12.8 | 13.2 |
| 22.5° | 10.8 | 9.6 | 10.0 | 11.2 | 12.4 | 12.8 |
| 25° | 9.6 | 8.4 | 9.2 | 10.4 | 11.6 | 12.4 |
| 27.5° | 8.0 | 7.6 | 8.4 | 10.0 | 11.6 | 12.0 |
| 30° | 6.8 | 6.8 | 8.0 | 9.6 | 11.2 | 11.6 |
| 31° | 6.4 | 6.4 | 8.0 | 9.6 | 11.2 | 11.6 |
| 32° | 6.0 | 6.4 | 7.6 | 9.6 | 11.2 | 11.6 |
| 33° | 5.6 | 6.0 | 7.6 | 9.2 | 11.2 | 11.6 |
| 34° | 5.2 | 6.0 | 7.6 | 9.2 | 11.2 | 11.6 |
| 35° | 4.8 | 6.0 | 7.6 | 9.2 | 11.2 | 11.6 |
| 36° | 4.4 | 5.6 | 7.2 | 9.2 | 11.2 | 11.6 |
| 37° | 4.0 | 5.6 | 7.2 | 9.2 | 11.2 | 11.6 |
| 38° | 3.6 | 5.2 | 7.2 | 9.2 | 11.2 | 11.6 |
| 39° | 3.6 | 5.2 | 6.8 | 9.2 | 10.8 | 11.6 |
| 40° | 3.2 | 4.8 | 6.8 | 9.2 | 10.8 | 11.6 |
| 41° | 2.8 | 4.8 | 6.8 | 8.8 | 10.8 | 11.6 |
| 42° | 2.4 | 4.4 | 6.4 | 8.8 | 10.8 | 11.6 |
| 43° | 2.0 | 4.4 | 6.4 | 8.8 | 10.8 | 11.6 |
| 44° | 2.0 | 4.0 | 6.4 | 8.8 | 10.8 | 11.6 |
| 45° | 1.6 | 4.0 | 6.4 | 8.8 | 10.8 | 11.6 |
| 46° | 1.2 | 4.0 | 6.4 | 8.8 | 10.8 | 11.6 |
| 47° | 1.2 | 3.6 | 6.0 | 8.8 | 10.8 | 11.6 |
| 48° | 0.8 | 3.6 | 6.0 | 8.8 | 10.8 | 11.6 |
| 49° | 0.8 | 3.6 | 6.0 | 8.8 | 10.8 | 12.0 |
| 50° | 0.8 | 3.6 | 6.0 | 8.4 | 10.8 | 12.0 |
| 51° | 0.4 | 3.6 | 6.0 | 8.4 | 10.8 | 12.0 |
| 52° | 0.4 | 3.6 | 5.6 | 8.4 | 11.2 | 12.0 |
| 53° | 0.4 | 3.2 | 5.6 | 8.4 | 11.2 | 12.0 |
| 54° | 0.4 | 3.2 | 5.6 | 8.4 | 11.2 | 11.6 |
| 55° | 0.4 | 3.2 | 5.6 | 8.4 | 10.8 | 11.6 |
| 56° | 0.4 | 2.8 | 5.6 | 8.4 | 10.8 | 11.6 |
| 57° | 0.4 | 2.8 | 5.2 | 8.0 | 10.8 | 11.2 |
| 58° | 0.4 | 2.8 | 5.2 | 8.0 | 10.8 | 11.2 |
| 59° | 0.4 | 2.8 | 5.2 | 8.0 | 10.4 | 11.2 |
| 60° | 0.8 | 2.4 | 4.8 | 7.6 | 10.4 | 11.2 |
| 62.5° | 0.8 | 2.4 | 4.8 | 7.6 | 10.0 | 10.8 |
| 65° | 0.8 | 2.4 | 4.4 | 7.2 | 10.0 | 10.8 |



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CANDELA DISTRIBUTION (continued):

| | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 67.5° | 0.8 | 2.0 | 4.0 | 6.8 | 9.6 | 10.4 |
| 70° | 0.8 | 2.4 | 4.0 | 6.4 | 9.2 | 10.0 |
| 72.5° | 1.2 | 2.0 | 3.6 | 6.0 | 8.8 | 9.6 |
| 75° | 1.2 | 2.0 | 3.6 | 5.6 | 8.4 | 8.8 |
| 77.5° | 1.6 | 2.0 | 3.2 | 4.8 | 7.6 | 8.0 |
| 80° | 1.6 | 2.0 | 2.8 | 4.0 | 6.4 | 6.8 |
| 82.5° | 1.6 | 2.0 | 2.0 | 3.2 | 4.8 | 5.2 |
| 85° | 1.2 | 1.6 | 1.6 | 2.0 | 3.2 | 3.6 |
| 87.5° | 1.2 | 1.6 | 1.2 | 0.8 | 1.6 | 1.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)