

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: P1316685

Luminaire Tested: LDSQA3D17R159740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R159740DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

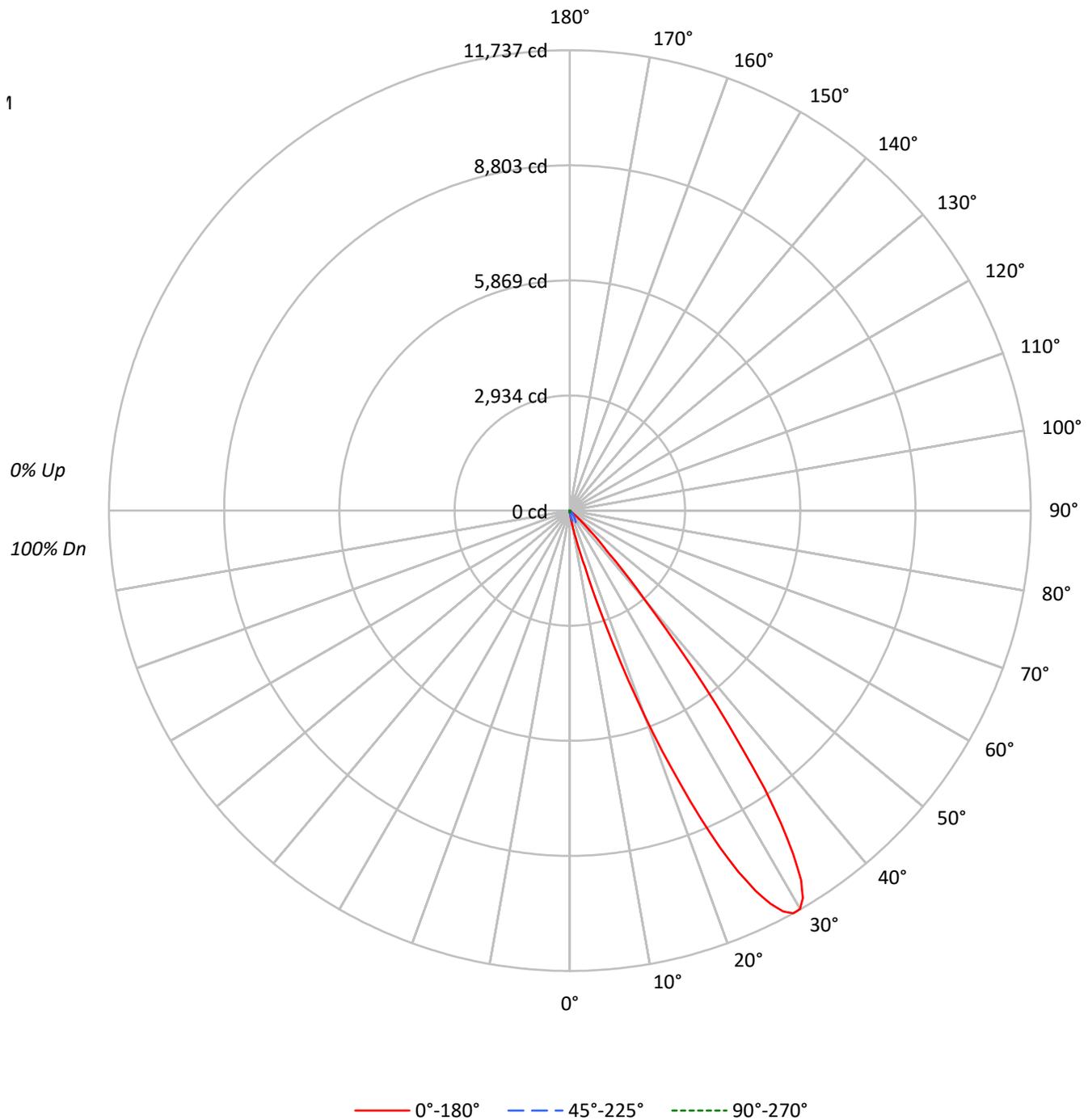
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1281.9 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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: 24 FT

TEST NUMBER: P1316685
CATALOG NUMBER: LDSQA3D17R159740DE010 3LSQCA30R 1MW

Luminous Intensity Polar Plot





TEST NUMBER: P1316685

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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 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | |
| 1 | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 95 | 93 | 92 | | |
| 2 | 106 | 100 | 96 | 92 | 104 | 99 | 94 | 91 | 95 | 92 | 89 | 92 | 89 | 87 | 89 | 87 | 85 | 83 | | |
| 3 | 99 | 92 | 86 | 81 | 97 | 90 | 85 | 81 | 88 | 83 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 75 | | |
| 4 | 93 | 84 | 78 | 73 | 91 | 83 | 77 | 72 | 81 | 75 | 71 | 79 | 74 | 70 | 77 | 73 | 70 | 68 | | |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 70 | 65 | 74 | 69 | 64 | 72 | 67 | 64 | 71 | 66 | 63 | 61 | | |
| 6 | 81 | 71 | 64 | 59 | 80 | 70 | 63 | 58 | 68 | 62 | 58 | 67 | 61 | 57 | 65 | 61 | 57 | 55 | | |
| 7 | 76 | 65 | 58 | 53 | 74 | 64 | 57 | 53 | 63 | 57 | 52 | 61 | 56 | 52 | 60 | 55 | 52 | 50 | | |
| 8 | 71 | 60 | 53 | 48 | 70 | 59 | 52 | 48 | 58 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 45 | | |
| 9 | 66 | 55 | 48 | 43 | 65 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 51 | 46 | 42 | 41 | | |
| 10 | 62 | 51 | 44 | 39 | 61 | 50 | 43 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 47 | 42 | 39 | 37 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|---------|-------|------|------|------|
| 0° | 7302 | 7302 | 7302 | 7302 | 7302 |
| 5° | 15732 | 11635 | 6898 | 3665 | 3025 |
| 10° | 69794 | 22035 | 5456 | 1521 | 1084 |
| 15° | 263935 | 50922 | 3780 | 660 | 446 |
| 20° | 1015016 | 71771 | 2291 | 220 | 220 |
| 25° | 1930158 | 67307 | 1178 | 0 | 0 |
| 30° | 2331679 | 54310 | 497 | 0 | 0 |
| 35° | 1818535 | 36961 | 252 | 0 | 0 |
| 40° | 663626 | 18233 | 270 | 0 | 270 |
| 45° | 170394 | 5456 | 292 | 0 | 609 |
| 50° | 28722 | 670 | 322 | 322 | 991 |
| 55° | 3753 | 0 | 751 | 1111 | 1862 |
| 60° | 413 | 413 | 1274 | 1722 | 2583 |
| 65° | 489 | 489 | 2038 | 2527 | 3056 |
| 70° | 604 | 604 | 2518 | 2518 | 3122 |
| 75° | 799 | 799 | 3327 | 2462 | 3327 |
| 80° | 0 | 1190 | 3670 | 2479 | 3670 |
| 85° | 0 | 2371 | 7311 | 2371 | 2371 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 170394 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 5.8 | 0.5 |
| 10°-20° | 98.2 | 7.7 |
| 20°-30° | 544.9 | 42.5 |
| 30°-40° | 526.4 | 41.1 |
| 40°-50° | 91.5 | 7.1 |
| 50°-60° | 6.6 | 0.5 |
| 60°-70° | 3.9 | 0.3 |
| 70°-80° | 3.1 | 0.2 |
| 80°-90° | 1.6 | 0.1 |
| 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° | 648.9 | 50.6 |
| 0°-40° | 1175.3 | 91.7 |
| 0°-60° | 1273.4 | 99.3 |
| 0°-90° | 1281.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1281.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-----|-----|------|------|------|
| 0° | 42 | 42 | 42 | 42 | 42 | |
| 5° | 91 | 67 | 40 | 21 | 18 | 18 |
| 15° | 1480 | 286 | 21 | 4 | 2 | 660 |
| 25° | 10157 | 354 | 6 | 0 | 0 | 4542 |
| 35° | 8650 | 176 | 1 | 0 | 0 | 4975 |
| 45° | 700 | 22 | 1 | 0 | 2 | 751 |
| 55° | 12 | 0 | 2 | 4 | 6 | 24 |
| 65° | 1 | 1 | 5 | 6 | 8 | 1 |
| 75° | 1 | 1 | 5 | 4 | 5 | 1 |
| 85° | 0 | 1 | 4 | 1 | 1 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1316685

CATALOG NUMBER: LDSQA3D17R159740DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|-------|
| 0° | 42.4 | 42.4 | 42.4 | 42.4 | 42.4 | 42.4 | 42.4 | 42.4 | 42.4 | 42.4 | 42.4 |
| 2.5° | 62.4 | 59.9 | 61.1 | 61.1 | 61.1 | 61.1 | 61.1 | 58.6 | 58.6 | 59.9 | 53.6 |
| 5° | 91.0 | 91.0 | 89.8 | 91.0 | 91.0 | 89.8 | 87.3 | 86.0 | 86.0 | 83.6 | 67.3 |
| 7.5° | 182.1 | 179.6 | 179.6 | 177.1 | 164.6 | 160.9 | 158.4 | 152.1 | 140.9 | 138.4 | 87.3 |
| 10° | 399.1 | 400.3 | 391.6 | 380.4 | 379.1 | 360.4 | 354.2 | 342.9 | 321.7 | 300.5 | 126.0 |
| 12.5° | 724.5 | 708.3 | 687.1 | 688.4 | 652.2 | 639.7 | 611.1 | 579.9 | 547.5 | 513.8 | 207.0 |
| 15° | 1480.3 | 1434.1 | 1461.6 | 1394.2 | 1318.1 | 1232.1 | 1144.8 | 1035.1 | 941.5 | 841.8 | 285.6 |
| 17.5° | 3117.7 | 3162.6 | 3086.5 | 2798.4 | 2621.3 | 2413.1 | 2120.0 | 1836.9 | 1595.0 | 1400.5 | 349.2 |
| 20° | 5538.2 | 5604.3 | 5346.2 | 5095.5 | 4665.3 | 4196.4 | 3707.5 | 3153.8 | 2623.8 | 2164.9 | 391.6 |
| 21° | 6549.6 | 6509.7 | 6403.7 | 6002.1 | 5505.8 | 4962.1 | 4363.5 | 3752.4 | 3110.2 | 2514.1 | 395.3 |
| 22° | 7527.3 | 7546.0 | 7299.1 | 6878.8 | 6362.5 | 5760.2 | 5029.4 | 4274.9 | 3582.8 | 2798.4 | 389.1 |
| 23° | 8501.2 | 8561.1 | 8234.4 | 7840.3 | 7190.6 | 6510.9 | 5665.4 | 4851.1 | 3995.6 | 3123.9 | 376.6 |
| 24° | 9402.9 | 9361.7 | 9141.0 | 8644.6 | 7950.0 | 7154.4 | 6276.5 | 5288.8 | 4334.8 | 3402.0 | 366.6 |
| 25° | 10157.3 | 10152.3 | 9805.7 | 9323.0 | 8528.7 | 7647.0 | 6679.3 | 5646.7 | 4625.4 | 3590.3 | 354.2 |
| 26° | 10774.6 | 10673.6 | 10400.5 | 9811.9 | 9027.5 | 8097.2 | 7009.7 | 5907.3 | 4788.7 | 3685.1 | 341.7 |
| 27° | 11251.0 | 11178.7 | 10812.0 | 10199.7 | 9380.4 | 8351.6 | 7221.7 | 6037.0 | 4863.5 | 3716.2 | 325.5 |
| 28° | 11571.5 | 11492.9 | 11102.6 | 10471.6 | 9575.0 | 8511.2 | 7334.0 | 6091.9 | 4863.5 | 3686.3 | 310.5 |
| 29° | 11737.4 | 11630.1 | 11241.0 | 10565.1 | 9619.8 | 8529.9 | 7306.5 | 6038.3 | 4787.5 | 3594.0 | 293.1 |
| 30° | 11724.9 | 11591.5 | 11183.7 | 10480.3 | 9486.4 | 8376.5 | 7153.2 | 5845.0 | 4615.4 | 3456.9 | 273.1 |
| 31° | 11522.9 | 11373.2 | 10918.0 | 10193.5 | 9210.8 | 8087.2 | 6863.8 | 5585.6 | 4379.7 | 3278.5 | 253.2 |
| 32° | 11112.6 | 10923.0 | 10479.1 | 9757.0 | 8786.8 | 7654.5 | 6443.6 | 5185.3 | 4026.8 | 3017.9 | 232.0 |
| 33° | 10444.2 | 10253.4 | 9777.0 | 9099.8 | 8213.2 | 7105.8 | 5886.1 | 4755.1 | 3625.2 | 2707.4 | 214.5 |
| 34° | 9607.4 | 9432.8 | 9022.5 | 8340.4 | 7489.9 | 6411.2 | 5245.1 | 4160.2 | 3208.7 | 2399.4 | 195.8 |
| 35° | 8649.6 | 8371.5 | 7999.9 | 7459.9 | 6630.6 | 5545.7 | 4553.0 | 3606.5 | 2779.7 | 2076.4 | 175.8 |
| 36° | 7353.9 | 7403.8 | 7009.7 | 6348.8 | 5661.7 | 4811.2 | 3858.4 | 3006.7 | 2324.5 | 1769.6 | 158.4 |
| 37° | 6205.4 | 6126.8 | 5876.2 | 5364.9 | 4766.3 | 3922.0 | 3233.6 | 2549.0 | 1955.4 | 1496.5 | 139.7 |
| 38° | 5005.7 | 5023.2 | 4777.5 | 4384.7 | 3791.1 | 3224.9 | 2602.6 | 2093.8 | 1636.1 | 1273.3 | 122.2 |
| 39° | 3918.3 | 3904.6 | 3838.5 | 3474.3 | 2936.8 | 2565.2 | 2108.8 | 1735.9 | 1363.0 | 1073.7 | 103.5 |
| 40° | 2951.8 | 2974.2 | 2819.6 | 2600.1 | 2287.1 | 1981.6 | 1679.8 | 1384.2 | 1127.3 | 905.4 | 81.1 |
| 42.5° | 1435.4 | 1470.3 | 1368.0 | 1311.9 | 1173.5 | 1053.8 | 889.2 | 725.8 | 617.3 | 533.7 | 36.2 |
| 45° | 699.6 | 679.6 | 670.9 | 643.5 | 611.1 | 546.2 | 483.9 | 415.3 | 362.9 | 313.0 | 22.4 |
| 47.5° | 357.9 | 347.9 | 347.9 | 336.7 | 325.5 | 304.3 | 273.1 | 250.7 | 225.7 | 194.5 | 8.7 |
| 50° | 107.2 | 106.0 | 104.8 | 106.0 | 102.3 | 106.0 | 108.5 | 109.7 | 99.8 | 98.5 | 2.5 |
| 52.5° | 42.4 | 43.6 | 42.4 | 46.1 | 46.1 | 44.9 | 46.1 | 44.9 | 43.6 | 38.7 | 0.0 |
| 55° | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 13.7 | 15.0 | 13.7 | 15.0 | 0.0 |
| 57.5° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 0.0 |
| 60° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 0.0 | 1.2 |
| 62.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 65° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 67.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 70° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 72.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 75° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 | 1.2 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 45° |
|-------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 |
| 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: LDSQA3D17R159740DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

| | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|------|--------|------|--------|------|
| 0° | 42.4 | 42.4 | 42.4 | 42.4 | 42.4 | 42.4 |
| 2.5° | 49.9 | 43.6 | 36.2 | 29.9 | 27.4 | 26.2 |
| 5° | 53.6 | 39.9 | 27.4 | 21.2 | 18.7 | 17.5 |
| 7.5° | 57.4 | 36.2 | 21.2 | 15.0 | 11.2 | 10.0 |
| 10° | 59.9 | 31.2 | 16.2 | 8.7 | 6.2 | 6.2 |
| 12.5° | 59.9 | 24.9 | 11.2 | 5.0 | 3.7 | 3.7 |
| 15° | 58.6 | 21.2 | 7.5 | 3.7 | 2.5 | 2.5 |
| 17.5° | 57.4 | 16.2 | 5.0 | 2.5 | 1.2 | 2.5 |
| 20° | 53.6 | 12.5 | 2.5 | 1.2 | 1.2 | 1.2 |
| 21° | 52.4 | 11.2 | 2.5 | 1.2 | 1.2 | 1.2 |
| 22° | 49.9 | 10.0 | 1.2 | 0.0 | 1.2 | 1.2 |
| 23° | 47.4 | 7.5 | 1.2 | 0.0 | 0.0 | 0.0 |
| 24° | 43.6 | 6.2 | 1.2 | 0.0 | 0.0 | 0.0 |
| 25° | 41.2 | 6.2 | 1.2 | 0.0 | 0.0 | 0.0 |
| 26° | 38.7 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 27° | 34.9 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 28° | 32.4 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 29° | 28.7 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 24.9 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 31° | 20.0 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32° | 16.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 33° | 11.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 34° | 7.5 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 6.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 36° | 3.7 | 1.2 | 0.0 | 0.0 | 0.0 | 1.2 |
| 37° | 3.7 | 1.2 | 0.0 | 0.0 | 0.0 | 1.2 |
| 38° | 2.5 | 1.2 | 0.0 | 0.0 | 0.0 | 1.2 |
| 39° | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 1.2 |
| 40° | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 1.2 |
| 42.5° | 0.0 | 1.2 | 0.0 | 0.0 | 1.2 | 2.5 |
| 45° | 0.0 | 1.2 | 0.0 | 0.0 | 1.2 | 2.5 |
| 47.5° | 0.0 | 1.2 | 0.0 | 0.0 | 2.5 | 2.5 |
| 50° | 0.0 | 1.2 | 1.2 | 1.2 | 2.5 | 3.7 |
| 52.5° | 0.0 | 2.5 | 1.2 | 2.5 | 3.7 | 5.0 |
| 55° | 1.2 | 2.5 | 2.5 | 3.7 | 5.0 | 6.2 |
| 57.5° | 1.2 | 3.7 | 3.7 | 5.0 | 6.2 | 6.2 |
| 60° | 2.5 | 3.7 | 5.0 | 5.0 | 7.5 | 7.5 |
| 62.5° | 2.5 | 5.0 | 5.0 | 5.0 | 7.5 | 7.5 |
| 65° | 2.5 | 5.0 | 5.0 | 6.2 | 7.5 | 7.5 |
| 67.5° | 2.5 | 5.0 | 5.0 | 5.0 | 6.2 | 7.5 |
| 70° | 2.5 | 5.0 | 3.7 | 5.0 | 6.2 | 6.2 |
| 72.5° | 2.5 | 5.0 | 3.7 | 3.7 | 5.0 | 6.2 |
| 75° | 2.5 | 5.0 | 3.7 | 3.7 | 5.0 | 5.0 |
| 77.5° | 2.5 | 3.7 | 3.7 | 2.5 | 3.7 | 3.7 |
| 80° | 2.5 | 3.7 | 2.5 | 2.5 | 3.7 | 3.7 |



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CANDELA DISTRIBUTION (continued):

| | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-----|--------|------|--------|------|
| 82.5° | 2.5 | 3.7 | 2.5 | 1.2 | 2.5 | 2.5 |
| 85° | 2.5 | 3.7 | 2.5 | 1.2 | 1.2 | 1.2 |
| 87.5° | 2.5 | 3.7 | 1.2 | 0.0 | 0.0 | 1.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)