

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: P1312889

Luminaire Tested: LDSQA3D20R409050D010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R409050D010 3LSQCA30R 1MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII
Light Source: -
Ballast/Driver: -

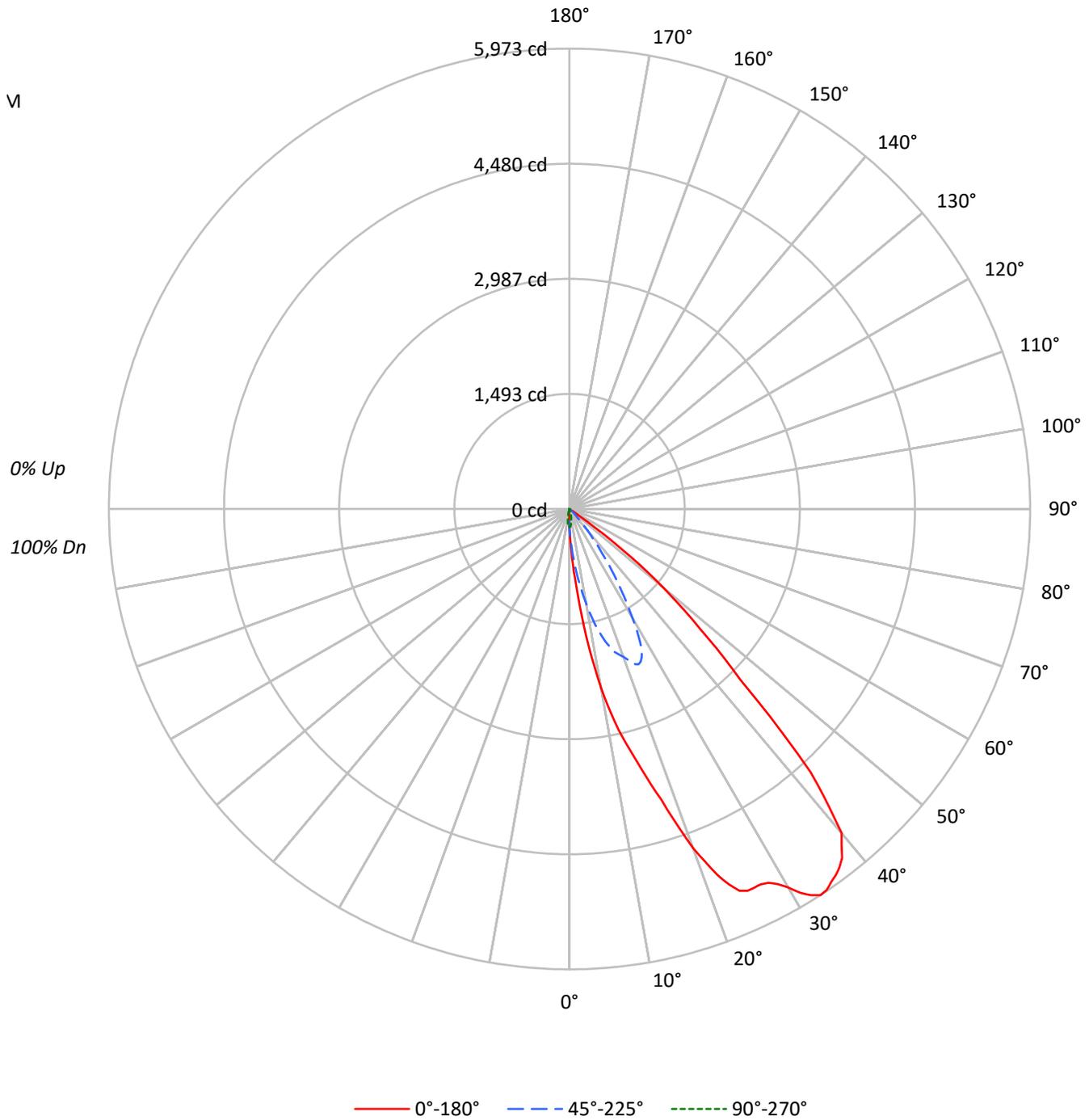
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2005.0 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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

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Luminous Intensity Polar Plot





TEST NUMBER: P1312889

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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 96 | 94 | 93 | 91 |
| 2 | 106 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 86 | 84 | 89 | 86 | 84 | 83 |
| 3 | 99 | 91 | 85 | 80 | 97 | 90 | 84 | 80 | 87 | 82 | 78 | 84 | 81 | 77 | 82 | 79 | 76 | 82 | 79 | 76 | 74 |
| 4 | 92 | 83 | 77 | 72 | 90 | 82 | 76 | 71 | 80 | 74 | 70 | 78 | 73 | 69 | 76 | 72 | 68 | 76 | 72 | 68 | 67 |
| 5 | 86 | 76 | 69 | 64 | 84 | 75 | 68 | 64 | 73 | 67 | 63 | 71 | 66 | 62 | 70 | 65 | 62 | 70 | 65 | 62 | 60 |
| 6 | 80 | 70 | 62 | 57 | 79 | 69 | 62 | 57 | 67 | 61 | 57 | 66 | 60 | 56 | 64 | 59 | 56 | 64 | 59 | 56 | 54 |
| 7 | 75 | 64 | 57 | 52 | 74 | 63 | 56 | 51 | 62 | 56 | 51 | 60 | 55 | 51 | 59 | 54 | 50 | 59 | 54 | 50 | 49 |
| 8 | 70 | 59 | 51 | 47 | 69 | 58 | 51 | 46 | 57 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 46 | 55 | 50 | 46 | 44 |
| 9 | 66 | 54 | 47 | 42 | 64 | 54 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 51 | 45 | 42 | 51 | 45 | 42 | 40 |
| 10 | 62 | 50 | 43 | 38 | 60 | 49 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 47 | 42 | 38 | 36 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|---------|--------|-------|-------|-------|
| 0° | 40386 | 40386 | 40386 | 40386 | 40386 |
| 5° | 171428 | 116833 | 35441 | 6379 | 3198 |
| 10° | 412033 | 217323 | 21965 | 647 | 0 |
| 15° | 606427 | 315730 | 9218 | 0 | 0 |
| 20° | 857216 | 374285 | 3391 | 0 | 0 |
| 25° | 1038268 | 415436 | 0 | 0 | 0 |
| 30° | 1127309 | 324966 | 0 | 0 | 0 |
| 35° | 1243074 | 190230 | 0 | 0 | 0 |
| 40° | 1233771 | 77203 | 0 | 0 | 0 |
| 45° | 764095 | 22481 | 0 | 0 | 0 |
| 50° | 425474 | 482 | 0 | 0 | 0 |
| 55° | 41586 | 0 | 0 | 0 | 0 |
| 60° | 0 | 0 | 620 | 0 | 0 |
| 65° | 0 | 0 | 734 | 0 | 0 |
| 70° | 0 | 906 | 1863 | 0 | 0 |
| 75° | 0 | 1198 | 2462 | 0 | 0 |
| 80° | 0 | 1785 | 3670 | 0 | 0 |
| 85° | 0 | 3557 | 7311 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°
 Vertical Angle: 45°
 Luminance: 767700 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 43.9 | 2.2 |
| 10°-20° | 258.4 | 12.9 |
| 20°-30° | 589.9 | 29.4 |
| 30°-40° | 696.6 | 34.7 |
| 40°-50° | 372.2 | 18.6 |
| 50°-60° | 40.4 | 2.0 |
| 60°-70° | 0.8 | 0.0 |
| 70°-80° | 1.4 | 0.1 |
| 80°-90° | 1.3 | 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° | 892.3 | 44.5 |
| 0°-40° | 1588.9 | 79.2 |
| 0°-60° | 2001.4 | 99.8 |
| 0°-90° | 2005.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2005.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 234 | 234 | 234 | 234 | 234 | |
| 5° | 992 | 676 | 205 | 37 | 18 | 139 |
| 15° | 3401 | 1771 | 52 | 0 | 0 | 1010 |
| 25° | 5464 | 2186 | 0 | 0 | 0 | 2481 |
| 35° | 5912 | 905 | 0 | 0 | 0 | 3652 |
| 45° | 3137 | 92 | 0 | 0 | 0 | 2587 |
| 55° | 138 | 0 | 0 | 0 | 0 | 388 |
| 65° | 0 | 0 | 2 | 0 | 0 | 0 |
| 75° | 0 | 2 | 4 | 0 | 0 | 0 |
| 85° | 0 | 2 | 4 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1312889

CATALOG NUMBER: LDSQA3D20R409050D010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 234.5 | 234.5 | 234.5 | 234.5 | 234.5 | 234.5 | 234.5 | 234.5 | 234.5 | 234.5 | 234.5 |
| 2.5° | 546.6 | 535.5 | 542.9 | 528.1 | 528.1 | 494.9 | 496.7 | 469.0 | 428.4 | 326.8 | 232.7 |
| 5° | 991.6 | 1035.9 | 1000.8 | 954.6 | 928.8 | 895.5 | 851.2 | 805.1 | 675.8 | 408.1 | 205.0 |
| 7.5° | 1660.0 | 1656.3 | 1597.2 | 1547.4 | 1490.1 | 1401.5 | 1318.4 | 1205.8 | 962.0 | 467.2 | 169.9 |
| 10° | 2356.1 | 2343.2 | 2276.7 | 2234.3 | 2125.3 | 1997.9 | 1828.0 | 1647.1 | 1242.7 | 487.5 | 125.6 |
| 12.5° | 2935.9 | 2919.3 | 2863.9 | 2791.9 | 2671.9 | 2511.2 | 2328.4 | 2090.2 | 1538.1 | 465.3 | 81.2 |
| 15° | 3401.2 | 3397.5 | 3344.0 | 3246.1 | 3120.6 | 2963.6 | 2756.8 | 2470.6 | 1770.8 | 408.1 | 51.7 |
| 17.5° | 3953.3 | 3975.5 | 3879.5 | 3774.2 | 3593.3 | 3373.5 | 3120.6 | 2793.7 | 1942.5 | 337.9 | 33.2 |
| 20° | 4677.2 | 4645.8 | 4557.1 | 4403.9 | 4230.3 | 3966.3 | 3608.0 | 3140.9 | 2042.2 | 262.2 | 18.5 |
| 21° | 4898.7 | 4885.8 | 4793.5 | 4651.3 | 4459.3 | 4191.5 | 3822.2 | 3318.1 | 2088.4 | 234.5 | 14.8 |
| 22° | 5124.0 | 5101.9 | 5029.8 | 4891.4 | 4710.4 | 4407.6 | 4001.3 | 3500.9 | 2147.5 | 205.0 | 9.2 |
| 23° | 5292.0 | 5282.8 | 5227.4 | 5090.8 | 4904.3 | 4610.7 | 4195.2 | 3670.8 | 2188.1 | 177.3 | 5.5 |
| 24° | 5421.3 | 5410.2 | 5354.8 | 5251.4 | 5090.8 | 4784.3 | 4391.0 | 3853.6 | 2204.7 | 153.3 | 1.8 |
| 25° | 5463.8 | 5469.3 | 5436.1 | 5354.8 | 5220.0 | 4913.5 | 4536.8 | 3997.7 | 2186.2 | 131.1 | 0.0 |
| 26° | 5465.6 | 5482.2 | 5458.2 | 5412.1 | 5301.3 | 5016.9 | 4673.5 | 4082.6 | 2138.2 | 110.8 | 0.0 |
| 27° | 5465.6 | 5482.2 | 5458.2 | 5423.1 | 5314.2 | 5076.0 | 4747.3 | 4091.8 | 2064.4 | 94.2 | 0.0 |
| 28° | 5491.5 | 5500.7 | 5469.3 | 5426.8 | 5308.7 | 5094.5 | 4767.6 | 4036.4 | 1946.2 | 81.2 | 0.0 |
| 29° | 5563.5 | 5554.2 | 5502.5 | 5445.3 | 5303.1 | 5094.5 | 4706.7 | 3931.2 | 1798.5 | 68.3 | 0.0 |
| 30° | 5668.7 | 5668.7 | 5587.5 | 5497.0 | 5329.0 | 5092.6 | 4608.8 | 3741.0 | 1634.1 | 55.4 | 0.0 |
| 31° | 5810.9 | 5798.0 | 5716.7 | 5581.9 | 5384.4 | 5092.6 | 4464.8 | 3530.5 | 1482.7 | 48.0 | 0.0 |
| 32° | 5906.9 | 5899.5 | 5822.0 | 5663.2 | 5474.8 | 5092.6 | 4309.7 | 3297.8 | 1318.4 | 38.8 | 0.0 |
| 33° | 5973.4 | 5958.6 | 5870.0 | 5705.7 | 5530.2 | 5066.8 | 4136.1 | 3048.6 | 1170.7 | 31.4 | 0.0 |
| 34° | 5964.2 | 5960.5 | 5868.1 | 5698.3 | 5519.2 | 4959.7 | 3934.9 | 2771.6 | 1034.0 | 25.9 | 0.0 |
| 35° | 5912.5 | 5912.5 | 5799.8 | 5624.4 | 5439.8 | 4802.7 | 3735.5 | 2535.2 | 904.8 | 18.5 | 0.0 |
| 36° | 5873.7 | 5858.9 | 5731.5 | 5535.8 | 5306.8 | 4555.3 | 3440.0 | 2297.0 | 766.3 | 14.8 | 0.0 |
| 37° | 5816.4 | 5788.8 | 5646.6 | 5436.1 | 5118.5 | 4287.6 | 3129.8 | 2084.7 | 648.1 | 9.2 | 0.0 |
| 38° | 5742.6 | 5700.1 | 5526.5 | 5319.7 | 4911.7 | 3979.2 | 2814.1 | 1846.5 | 539.2 | 5.5 | 0.0 |
| 39° | 5607.8 | 5572.7 | 5393.6 | 5170.2 | 4664.2 | 3654.2 | 2507.5 | 1623.1 | 435.8 | 1.8 | 0.0 |
| 40° | 5487.8 | 5426.8 | 5223.7 | 4967.1 | 4374.3 | 3286.8 | 2202.9 | 1403.3 | 343.4 | 0.0 | 0.0 |
| 42.5° | 4627.3 | 4562.7 | 4516.5 | 4261.7 | 3484.3 | 2359.8 | 1538.1 | 899.2 | 179.1 | 0.0 | 0.0 |
| 45° | 3137.2 | 3152.0 | 3007.9 | 2836.2 | 2298.9 | 1538.1 | 962.0 | 500.4 | 92.3 | 0.0 | 0.0 |
| 47.5° | 2287.8 | 2249.0 | 2053.3 | 1728.3 | 1347.9 | 899.2 | 502.2 | 241.9 | 36.9 | 0.0 | 0.0 |
| 50° | 1588.0 | 1514.1 | 1336.9 | 1093.1 | 733.1 | 428.4 | 221.6 | 112.6 | 1.8 | 0.0 | 0.0 |
| 52.5° | 862.3 | 810.6 | 686.9 | 498.6 | 304.7 | 164.3 | 88.6 | 46.2 | 0.0 | 0.0 | 0.0 |
| 55° | 138.5 | 96.0 | 99.7 | 84.9 | 66.5 | 48.0 | 27.7 | 5.5 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 | 3.7 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 3.7 | 3.7 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 3.7 | 3.7 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 3.7 | 3.7 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 3.7 | 3.7 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 3.7 | 3.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 3.7 | 3.7 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 3.7 | 3.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 3.7 | 3.7 |
| 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: P1312889

CATALOG NUMBER: LDSQA3D20R409050D010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (continued):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|-------|--------|-------|
| 0° | 234.5 | 234.5 | 234.5 | 234.5 |
| 2.5° | 157.0 | 107.1 | 81.2 | 70.2 |
| 5° | 90.5 | 36.9 | 20.3 | 18.5 |
| 7.5° | 44.3 | 12.9 | 7.4 | 7.4 |
| 10° | 18.5 | 3.7 | 0.0 | 0.0 |
| 12.5° | 5.5 | 0.0 | 0.0 | 0.0 |
| 15° | 0.0 | 0.0 | 0.0 | 0.0 |
| 17.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 20° | 0.0 | 0.0 | 0.0 | 0.0 |
| 21° | 0.0 | 0.0 | 0.0 | 0.0 |
| 22° | 0.0 | 0.0 | 0.0 | 0.0 |
| 23° | 0.0 | 0.0 | 0.0 | 0.0 |
| 24° | 0.0 | 0.0 | 0.0 | 0.0 |
| 25° | 0.0 | 0.0 | 0.0 | 0.0 |
| 26° | 0.0 | 0.0 | 0.0 | 0.0 |
| 27° | 0.0 | 0.0 | 0.0 | 0.0 |
| 28° | 0.0 | 0.0 | 0.0 | 0.0 |
| 29° | 0.0 | 0.0 | 0.0 | 0.0 |
| 30° | 0.0 | 0.0 | 0.0 | 0.0 |
| 31° | 0.0 | 0.0 | 0.0 | 0.0 |
| 32° | 0.0 | 0.0 | 0.0 | 0.0 |
| 33° | 0.0 | 0.0 | 0.0 | 0.0 |
| 34° | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 0.0 | 0.0 | 0.0 | 0.0 |
| 36° | 0.0 | 0.0 | 0.0 | 0.0 |
| 37° | 0.0 | 0.0 | 0.0 | 0.0 |
| 38° | 0.0 | 0.0 | 0.0 | 0.0 |
| 39° | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 1.8 | 0.0 | 0.0 | 0.0 |
| 67.5° | 1.8 | 0.0 | 0.0 | 0.0 |
| 70° | 1.8 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1.8 | 0.0 | 0.0 | 0.0 |
| 75° | 1.8 | 0.0 | 0.0 | 0.0 |
| 77.5° | 1.8 | 0.0 | 0.0 | 0.0 |
| 80° | 1.8 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 1.8 | 0.0 | 0.0 | 0.0 |
| 85° | 1.8 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.8 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)