

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: P1310694

Luminaire Tested: LDSQA3D20R409035D010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310694  
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: LDSQA3D20R409035D010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

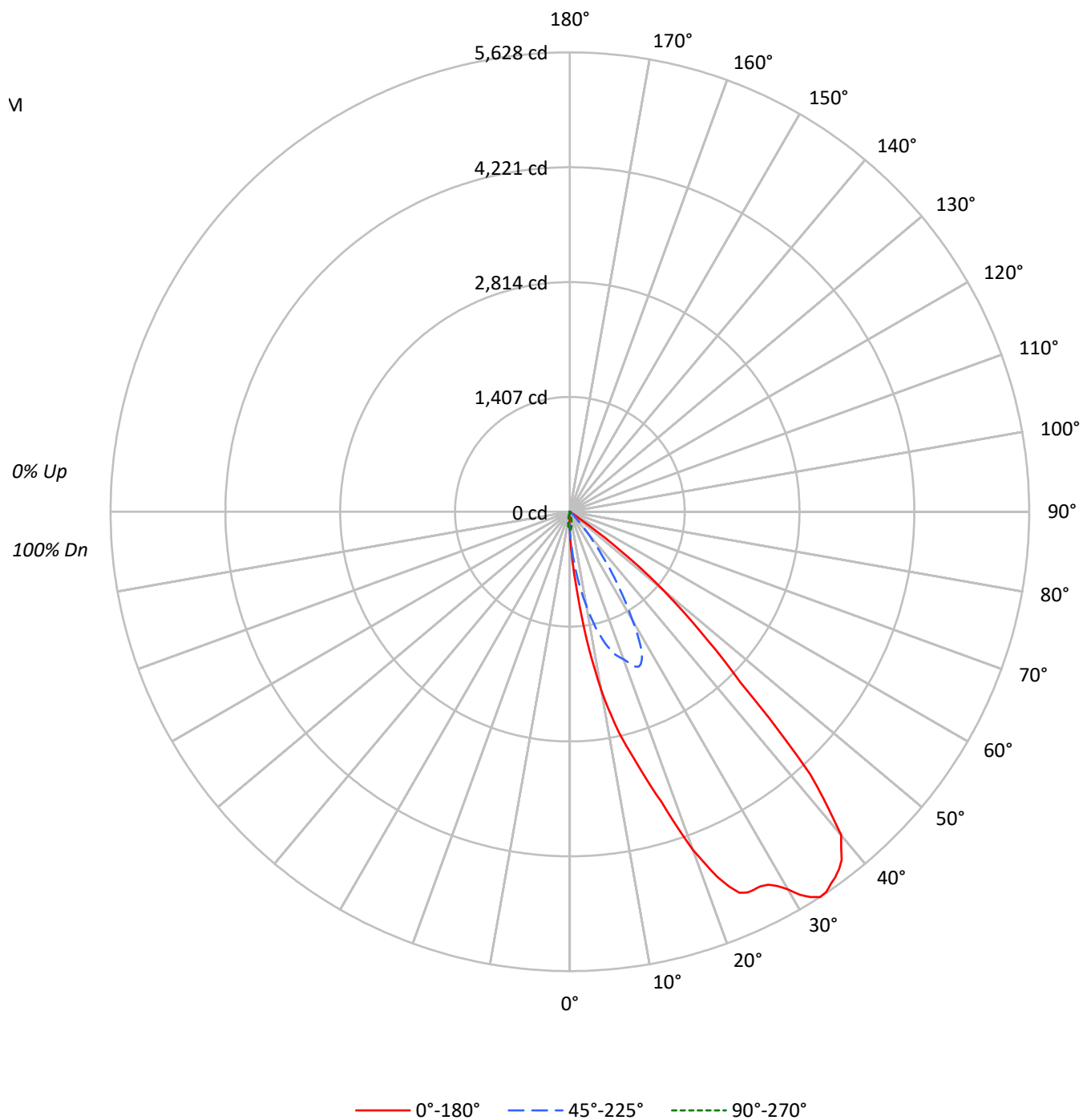
Lumens per Lamp: N/A  
Luminaire Lumens: 1889.0 lumens  
Efficiency: N/A  
Efficacy: 65.6 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1310694

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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |    | 10 |
| 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   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 83  |    |    |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 81  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 92  | 83  | 77  | 72  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 68  | 67  |    |    |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 64  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 60  |    |    |
| 6   | 80  | 70  | 62  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 59  | 56  | 54  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 51  | 62  | 56  | 51  | 60  | 55  | 51  | 59  | 54  | 50  | 49  |    |    |
| 8   | 70  | 59  | 51  | 47  | 69  | 58  | 51  | 46  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    |
| 9   | 66  | 54  | 47  | 42  | 64  | 54  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 51  | 45  | 42  | 40  |    |    |
| 10  | 62  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 36  |    |    |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°      | 45°    | 90°   | 135°  | 180°  |
|-----|---------|--------|-------|-------|-------|
| 0°  | 38044   | 38044  | 38044 | 38044 | 38044 |
| 5°  | 161505  | 110073 | 33383 | 6016  | 3008  |
| 10° | 388197  | 204749 | 20688 | 612   | 0     |
| 15° | 571356  | 297455 | 8683  | 0     | 0     |
| 20° | 807622  | 352640 | 3189  | 0     | 0     |
| 25° | 978200  | 391417 | 0     | 0     | 0     |
| 30° | 1062101 | 306173 | 0     | 0     | 0     |
| 35° | 1171149 | 179213 | 0     | 0     | 0     |
| 40° | 1162390 | 72752  | 0     | 0     | 0     |
| 45° | 719889  | 21190  | 0     | 0     | 0     |
| 50° | 400851  | 455    | 0     | 0     | 0     |
| 55° | 39184   | 0      | 0     | 0     | 0     |
| 60° | 0       | 0      | 586   | 0     | 0     |
| 65° | 0       | 0      | 693   | 0     | 0     |
| 70° | 0       | 856    | 1762  | 0     | 0     |
| 75° | 0       | 1131   | 2329  | 0     | 0     |
| 80° | 0       | 1686   | 3471  | 0     | 0     |
| 85° | 0       | 3359   | 6916  | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 723275 cd/sqm

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CATALOG NUMBER: LDSQA3D20R409035D010 3LSQCA30R 1MMS

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 41.4   | 2.2       |
| 10°-20°   | 243.5  | 12.9      |
| 20°-30°   | 555.8  | 29.4      |
| 30°-40°   | 656.3  | 34.7      |
| 40°-50°   | 350.6  | 18.6      |
| 50°-60°   | 38.1   | 2.0       |
| 60°-70°   | 0.7    | 0.0       |
| 70°-80°   | 1.3    | 0.1       |
| 80°-90°   | 1.2    | 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°    | 840.7  | 44.5      |
| 0°-40°    | 1496.9 | 79.2      |
| 0°-60°    | 1885.7 | 99.8      |
| 0°-90°    | 1889.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1889.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 221  | 221  | 221 | 221  | 221  |      |
| 5°  | 934  | 637  | 193 | 35   | 17   | 131  |
| 15° | 3204 | 1668 | 49  | 0    | 0    | 952  |
| 25° | 5148 | 2060 | 0   | 0    | 0    | 2337 |
| 35° | 5570 | 852  | 0   | 0    | 0    | 3441 |
| 45° | 2956 | 87   | 0   | 0    | 0    | 2437 |
| 55° | 130  | 0    | 0   | 0    | 0    | 366  |
| 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: P1310694

CATALOG NUMBER: LDSQA3D20R409035D010 3LSQCA30R 1MMS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 45°    | 67.5° | 90°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°    | 220.9  | 220.9  | 220.9  | 220.9  | 220.9  | 220.9  | 220.9  | 220.9  | 220.9  | 220.9 | 220.9 |
| 2.5°  | 514.9  | 504.5  | 511.5  | 497.5  | 497.5  | 466.2  | 468.0  | 441.9  | 403.6  | 307.9 | 219.2 |
| 5°    | 934.2  | 976.0  | 942.9  | 899.4  | 875.1  | 843.7  | 802.0  | 758.5  | 636.7  | 384.5 | 193.1 |
| 7.5°  | 1564.0 | 1560.5 | 1504.8 | 1457.8 | 1403.9 | 1320.4 | 1242.1 | 1136.0 | 906.4  | 440.1 | 160.0 |
| 10°   | 2219.8 | 2207.6 | 2145.0 | 2105.0 | 2002.4 | 1882.3 | 1722.3 | 1551.8 | 1170.8 | 459.3 | 118.3 |
| 12.5° | 2766.1 | 2750.4 | 2698.2 | 2630.4 | 2517.3 | 2365.9 | 2193.7 | 1969.3 | 1449.1 | 438.4 | 76.5  |
| 15°   | 3204.5 | 3201.0 | 3150.5 | 3058.3 | 2940.0 | 2792.2 | 2597.3 | 2327.7 | 1668.3 | 384.5 | 48.7  |
| 17.5° | 3724.6 | 3745.5 | 3655.0 | 3555.9 | 3385.4 | 3178.4 | 2940.0 | 2632.1 | 1830.1 | 318.4 | 31.3  |
| 20°   | 4406.6 | 4377.0 | 4293.5 | 4149.1 | 3985.6 | 3736.8 | 3399.3 | 2959.2 | 1924.1 | 247.0 | 17.4  |
| 21°   | 4615.3 | 4603.1 | 4516.2 | 4382.2 | 4201.3 | 3949.0 | 3601.1 | 3126.2 | 1967.6 | 220.9 | 13.9  |
| 22°   | 4827.6 | 4806.7 | 4738.8 | 4608.4 | 4437.9 | 4152.6 | 3769.8 | 3298.4 | 2023.2 | 193.1 | 8.7   |
| 23°   | 4985.9 | 4977.2 | 4925.0 | 4796.2 | 4620.5 | 4343.9 | 3952.5 | 3458.4 | 2061.5 | 167.0 | 5.2   |
| 24°   | 5107.6 | 5097.2 | 5045.0 | 4947.6 | 4796.2 | 4507.5 | 4136.9 | 3630.7 | 2077.2 | 144.4 | 1.7   |
| 25°   | 5147.7 | 5152.9 | 5121.6 | 5045.0 | 4918.0 | 4629.2 | 4274.3 | 3766.4 | 2059.8 | 123.5 | 0.0   |
| 26°   | 5149.4 | 5165.1 | 5142.4 | 5098.9 | 4994.6 | 4726.7 | 4403.1 | 3846.4 | 2014.5 | 104.4 | 0.0   |
| 27°   | 5149.4 | 5165.1 | 5142.4 | 5109.4 | 5006.7 | 4782.3 | 4472.7 | 3855.1 | 1944.9 | 88.7  | 0.0   |
| 28°   | 5173.8 | 5182.5 | 5152.9 | 5112.9 | 5001.5 | 4799.7 | 4491.8 | 3802.9 | 1833.6 | 76.5  | 0.0   |
| 29°   | 5241.6 | 5232.9 | 5184.2 | 5130.3 | 4996.3 | 4799.7 | 4434.4 | 3703.7 | 1694.4 | 64.4  | 0.0   |
| 30°   | 5340.8 | 5340.8 | 5264.2 | 5179.0 | 5020.7 | 4798.0 | 4342.2 | 3524.6 | 1539.6 | 52.2  | 0.0   |
| 31°   | 5474.7 | 5462.5 | 5386.0 | 5259.0 | 5072.9 | 4798.0 | 4206.5 | 3326.2 | 1396.9 | 45.2  | 0.0   |
| 32°   | 5565.2 | 5558.2 | 5485.2 | 5335.5 | 5158.1 | 4798.0 | 4060.4 | 3107.0 | 1242.1 | 36.5  | 0.0   |
| 33°   | 5627.8 | 5613.9 | 5530.4 | 5375.6 | 5210.3 | 4773.6 | 3896.8 | 2872.2 | 1102.9 | 29.6  | 0.0   |
| 34°   | 5619.1 | 5615.6 | 5528.6 | 5368.6 | 5199.8 | 4672.7 | 3707.2 | 2611.2 | 974.2  | 24.4  | 0.0   |
| 35°   | 5570.4 | 5570.4 | 5464.3 | 5299.0 | 5125.0 | 4524.9 | 3519.3 | 2388.6 | 852.4  | 17.4  | 0.0   |
| 36°   | 5533.9 | 5519.9 | 5399.9 | 5215.5 | 4999.8 | 4291.7 | 3241.0 | 2164.1 | 722.0  | 13.9  | 0.0   |
| 37°   | 5479.9 | 5453.8 | 5319.9 | 5121.6 | 4822.3 | 4039.5 | 2948.7 | 1964.1 | 610.6  | 8.7   | 0.0   |
| 38°   | 5410.3 | 5370.3 | 5206.8 | 5012.0 | 4627.5 | 3749.0 | 2651.2 | 1739.7 | 508.0  | 5.2   | 0.0   |
| 39°   | 5283.4 | 5250.3 | 5081.6 | 4871.1 | 4394.4 | 3442.8 | 2362.5 | 1529.2 | 410.6  | 1.7   | 0.0   |
| 40°   | 5170.3 | 5112.9 | 4921.5 | 4679.7 | 4121.3 | 3096.6 | 2075.4 | 1322.1 | 323.6  | 0.0   | 0.0   |
| 42.5° | 4359.6 | 4298.7 | 4255.2 | 4015.1 | 3282.7 | 2223.3 | 1449.1 | 847.2  | 168.7  | 0.0   | 0.0   |
| 45°   | 2955.7 | 2969.6 | 2833.9 | 2672.1 | 2165.9 | 1449.1 | 906.4  | 471.4  | 87.0   | 0.0   | 0.0   |
| 47.5° | 2155.4 | 2118.9 | 1934.5 | 1628.3 | 1270.0 | 847.2  | 473.2  | 227.9  | 34.8   | 0.0   | 0.0   |
| 50°   | 1496.1 | 1426.5 | 1259.5 | 1029.9 | 690.6  | 403.6  | 208.8  | 106.1  | 1.7    | 0.0   | 0.0   |
| 52.5° | 812.4  | 763.7  | 647.2  | 469.7  | 287.0  | 154.8  | 83.5   | 43.5   | 0.0    | 0.0   | 0.0   |
| 55°   | 130.5  | 90.5   | 93.9   | 80.0   | 62.6   | 45.2   | 26.1   | 5.2    | 0.0    | 0.0   | 0.0   |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 0.0    | 0.0    | 0.0    | 1.7   | 1.7   |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7   | 1.7   |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7   | 1.7   |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7   | 1.7   |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 3.5   | 3.5   |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 3.5   | 3.5   |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 3.5   | 3.5   |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 1.7    | 3.5   | 3.5   |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 3.5   | 3.5   |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.7    | 1.7    | 3.5   | 3.5   |



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CATALOG NUMBER: LDSQA3D20R409035D010 3LSQCA30R 1MMS

**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 | 1.7 | 1.7 | 3.5   | 3.5 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 3.5   | 3.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 | 3.5   | 3.5 |
| 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: LDSQA3D20R409035D010 3LSQCA30R 1MMS

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135°  | 157.5° | 180°  |
|-------|--------|-------|--------|-------|
| 0°    | 220.9  | 220.9 | 220.9  | 220.9 |
| 2.5°  | 147.9  | 100.9 | 76.5   | 66.1  |
| 5°    | 85.2   | 34.8  | 19.1   | 17.4  |
| 7.5°  | 41.8   | 12.2  | 7.0    | 7.0   |
| 10°   | 17.4   | 3.5   | 0.0    | 0.0   |
| 12.5° | 5.2    | 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°   | 1.7    | 0.0   | 0.0    | 0.0   |
| 67.5° | 1.7    | 0.0   | 0.0    | 0.0   |
| 70°   | 1.7    | 0.0   | 0.0    | 0.0   |
| 72.5° | 1.7    | 0.0   | 0.0    | 0.0   |
| 75°   | 1.7    | 0.0   | 0.0    | 0.0   |
| 77.5° | 1.7    | 0.0   | 0.0    | 0.0   |
| 80°   | 1.7    | 0.0   | 0.0    | 0.0   |



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**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 1.7    | 0.0  | 0.0    | 0.0  |
| 85°   | 1.7    | 0.0  | 0.0    | 0.0  |
| 87.5° | 1.7    | 0.0  | 0.0    | 0.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)