

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: P1326463

Luminaire Tested: LDSQA3D09R35W2N902750DE010 3LSQCA30R 1MB\_3500K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1326463  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-51)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R35W2N902750DE010 3LSQCA30R 1MB\_3500K  
Description: 3in Adjustable Tunable White LED luminaire with, R35 optic, 3500K CCT AND, 90CRI ,  
3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

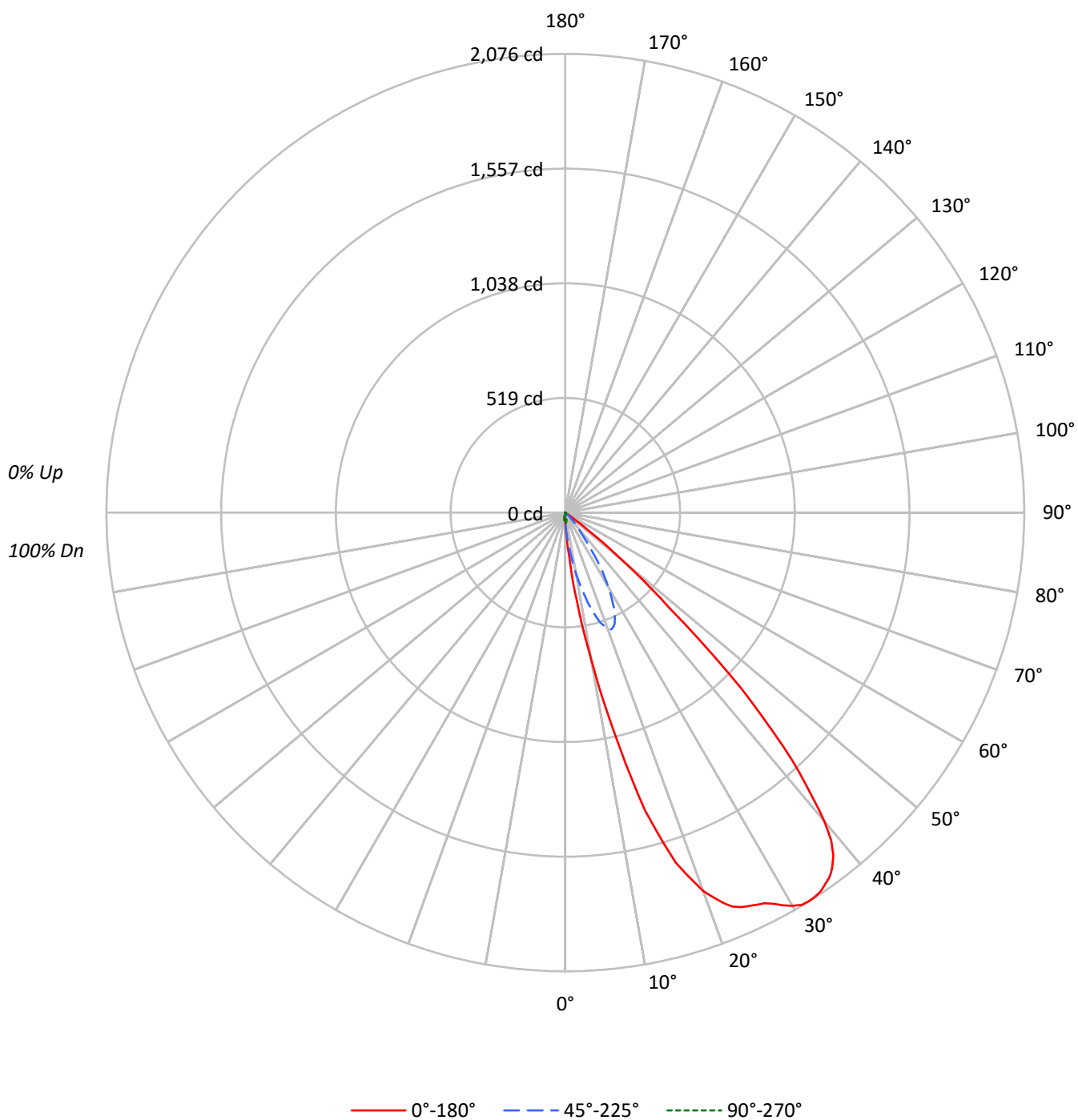
Lumens per Lamp: N/A  
Luminaire Lumens: 620.0 lumens  
Efficiency: N/A  
Efficacy: 68.9 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.45 / 1.29  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

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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 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |
| 1   | 113 | 109 | 106 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  | 99  | 98  | 96  | 96  | 95  | 93  | 91  |    |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 87  | 85  | 83  |    |
| 3   | 99  | 91  | 86  | 81  | 97  | 90  | 85  | 80  | 87  | 83  | 79  | 85  | 81  | 78  | 82  | 79  | 76  | 75  |    |
| 4   | 93  | 84  | 77  | 72  | 91  | 82  | 76  | 72  | 80  | 75  | 71  | 78  | 73  | 70  | 76  | 72  | 69  | 67  |    |
| 5   | 86  | 76  | 70  | 64  | 85  | 75  | 69  | 64  | 74  | 68  | 63  | 72  | 67  | 63  | 70  | 66  | 62  | 61  |    |
| 6   | 81  | 70  | 63  | 58  | 79  | 69  | 62  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 65  | 60  | 56  | 55  |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 51  | 60  | 55  | 51  | 49  |    |
| 8   | 71  | 59  | 52  | 47  | 69  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 46  | 55  | 50  | 46  | 45  |    |
| 9   | 66  | 54  | 47  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |    |

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

|     | 0°     | 45°    | 90°  | 135° | 180° |
|-----|--------|--------|------|------|------|
| 0°  | 8043   | 8043   | 8043 | 8043 | 8043 |
| 5°  | 34974  | 21679  | 7468 | 2662 | 1833 |
| 10° | 117711 | 48931  | 5579 | 612  | 210  |
| 15° | 249100 | 80252  | 3477 | 0    | 0    |
| 20° | 333983 | 102543 | 1631 | 0    | 0    |
| 25° | 373269 | 100714 | 342  | 0    | 0    |
| 30° | 408629 | 77160  | 0    | 0    | 0    |
| 35° | 431276 | 42028  | 0    | 0    | 0    |
| 40° | 409961 | 18885  | 0    | 0    | 0    |
| 45° | 275149 | 8354   | 0    | 0    | 0    |
| 50° | 91927  | 804    | 0    | 0    | 0    |
| 55° | 4984   | 0      | 0    | 0    | 0    |
| 60° | 0      | 0      | 207  | 0    | 0    |
| 65° | 0      | 0      | 489  | 0    | 0    |
| 70° | 0      | 302    | 604  | 0    | 0    |
| 75° | 0      | 399    | 799  | 0    | 0    |
| 80° | 0      | 595    | 1190 | 0    | 0    |
| 85° | 0      | 1186   | 2371 | 0    | 0    |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 275149 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 10.0   | 1.6       |
| 10°-20°   | 86.0   | 13.9      |
| 20°-30°   | 188.8  | 30.4      |
| 30°-40°   | 218.3  | 35.2      |
| 40°-50°   | 107.8  | 17.4      |
| 50°-60°   | 8.0    | 1.3       |
| 60°-70°   | 0.3    | 0.0       |
| 70°-80°   | 0.5    | 0.1       |
| 80°-90°   | 0.4    | 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°    | 284.8  | 45.9      |
| 0°-40°    | 503.1  | 81.1      |
| 0°-60°    | 618.9  | 99.8      |
| 0°-90°    | 620.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 620.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 47   | 47  | 47  | 47   | 47   |      |
| 5°  | 202  | 125 | 43  | 15   | 11   | 35   |
| 15° | 1397 | 450 | 20  | 0    | 0    | 394  |
| 25° | 1964 | 530 | 2   | 0    | 0    | 908  |
| 35° | 2051 | 200 | 0   | 0    | 0    | 1267 |
| 45° | 1130 | 34  | 0   | 0    | 0    | 829  |
| 55° | 17   | 0   | 0   | 0    | 0    | 68   |
| 65° | 0    | 0   | 1   | 0    | 0    | 0    |
| 75° | 0    | 1   | 1   | 0    | 0    | 0    |
| 85° | 0    | 1   | 1   | 0    | 0    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 45°   | 67.5° | 90°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|
| 0°    | 46.7   | 46.7   | 46.7   | 46.7   | 46.7   | 46.7   | 46.7   | 46.7   | 46.7  | 46.7  | 46.7 |
| 2.5°  | 92.9   | 95.2   | 94.0   | 94.0   | 93.5   | 90.5   | 85.2   | 83.4   | 76.9  | 60.9  | 47.3 |
| 5°    | 202.3  | 202.9  | 201.1  | 192.2  | 184.5  | 177.4  | 162.1  | 155.0  | 125.4 | 74.5  | 43.2 |
| 7.5°  | 410.5  | 401.6  | 390.4  | 378.0  | 350.7  | 325.9  | 293.4  | 259.1  | 194.0 | 86.4  | 38.4 |
| 10°   | 673.1  | 660.7  | 651.2  | 621.6  | 572.6  | 521.7  | 459.6  | 403.4  | 279.8 | 94.6  | 31.9 |
| 12.5° | 1012.0 | 1004.9 | 971.2  | 912.1  | 839.3  | 766.0  | 657.7  | 568.4  | 366.1 | 96.4  | 26.0 |
| 15°   | 1397.1 | 1385.2 | 1333.8 | 1249.8 | 1151.0 | 1035.7 | 890.8  | 740.5  | 450.1 | 91.1  | 19.5 |
| 17.5° | 1660.3 | 1653.8 | 1609.4 | 1521.3 | 1407.7 | 1261.0 | 1089.5 | 902.0  | 519.3 | 79.8  | 13.6 |
| 20°   | 1822.3 | 1812.9 | 1771.5 | 1697.0 | 1578.1 | 1424.9 | 1221.4 | 1004.9 | 559.5 | 65.7  | 8.9  |
| 21°   | 1864.3 | 1854.9 | 1821.8 | 1744.3 | 1630.7 | 1466.3 | 1257.5 | 1029.8 | 567.2 | 59.1  | 7.1  |
| 22°   | 1904.0 | 1894.5 | 1859.6 | 1791.0 | 1678.6 | 1507.1 | 1285.9 | 1048.7 | 566.0 | 53.8  | 5.3  |
| 23°   | 1937.1 | 1927.0 | 1892.7 | 1829.4 | 1716.5 | 1543.2 | 1307.2 | 1058.2 | 558.4 | 48.5  | 4.1  |
| 24°   | 1954.2 | 1948.3 | 1917.6 | 1857.8 | 1747.2 | 1568.6 | 1322.0 | 1061.7 | 548.9 | 43.2  | 3.0  |
| 25°   | 1964.3 | 1957.2 | 1927.0 | 1872.0 | 1767.3 | 1588.7 | 1331.4 | 1058.7 | 530.0 | 38.4  | 1.8  |
| 26°   | 1975.0 | 1964.3 | 1930.0 | 1876.8 | 1778.0 | 1598.2 | 1332.0 | 1051.1 | 509.9 | 34.3  | 0.6  |
| 27°   | 1984.4 | 1974.4 | 1938.9 | 1880.3 | 1779.8 | 1595.2 | 1327.3 | 1036.3 | 485.6 | 30.2  | 0.6  |
| 28°   | 2005.1 | 1993.9 | 1953.1 | 1888.0 | 1781.5 | 1587.5 | 1312.5 | 1016.2 | 453.7 | 26.6  | 0.0  |
| 29°   | 2032.3 | 2020.5 | 1973.8 | 1906.3 | 1785.7 | 1579.3 | 1292.4 | 989.5  | 425.9 | 23.7  | 0.0  |
| 30°   | 2054.8 | 2044.2 | 2001.0 | 1929.4 | 1796.3 | 1571.6 | 1268.7 | 953.5  | 388.0 | 20.1  | 0.0  |
| 31°   | 2071.4 | 2060.7 | 2021.1 | 1948.9 | 1805.8 | 1564.5 | 1239.1 | 916.2  | 353.7 | 17.7  | 0.0  |
| 32°   | 2075.5 | 2066.6 | 2029.4 | 1957.2 | 1805.8 | 1553.8 | 1211.9 | 874.2  | 320.0 | 14.8  | 0.0  |
| 33°   | 2073.7 | 2064.9 | 2027.0 | 1951.3 | 1789.8 | 1528.4 | 1178.8 | 823.9  | 281.5 | 13.0  | 0.0  |
| 34°   | 2067.2 | 2056.6 | 2016.4 | 1932.4 | 1758.5 | 1485.2 | 1130.9 | 773.7  | 241.3 | 10.6  | 0.0  |
| 35°   | 2051.3 | 2041.8 | 1998.0 | 1896.9 | 1710.0 | 1419.6 | 1067.0 | 715.7  | 199.9 | 8.9   | 0.0  |
| 36°   | 2035.9 | 2021.7 | 1967.9 | 1853.1 | 1646.1 | 1352.1 | 990.7  | 648.9  | 164.4 | 7.1   | 0.0  |
| 37°   | 2007.5 | 1987.4 | 1933.0 | 1789.8 | 1555.6 | 1256.9 | 903.8  | 575.5  | 137.8 | 5.3   | 0.0  |
| 38°   | 1969.6 | 1942.4 | 1873.2 | 1716.5 | 1464.5 | 1167.6 | 822.2  | 509.3  | 115.9 | 3.5   | 0.0  |
| 39°   | 1911.1 | 1879.1 | 1785.1 | 1615.9 | 1359.2 | 1064.1 | 728.7  | 438.9  | 98.8  | 2.4   | 0.0  |
| 40°   | 1823.5 | 1793.4 | 1689.3 | 1496.4 | 1254.5 | 949.9  | 632.9  | 359.6  | 84.0  | 1.2   | 0.0  |
| 42.5° | 1518.3 | 1476.9 | 1356.3 | 1164.6 | 927.4  | 683.2  | 418.8  | 199.9  | 55.6  | 0.0   | 0.0  |
| 45°   | 1129.7 | 1093.1 | 974.8  | 800.3  | 618.1  | 418.2  | 224.2  | 117.7  | 34.3  | 0.0   | 0.0  |
| 47.5° | 638.2  | 634.1  | 557.2  | 459.6  | 344.8  | 222.4  | 113.6  | 71.0   | 14.8  | 0.0   | 0.0  |
| 50°   | 343.1  | 321.8  | 277.4  | 210.6  | 143.7  | 97.0   | 61.5   | 39.0   | 3.0   | 0.0   | 0.0  |
| 52.5° | 125.4  | 121.3  | 101.7  | 84.6   | 65.1   | 44.4   | 31.3   | 17.2   | 0.0   | 0.0   | 0.0  |
| 55°   | 16.6   | 15.4   | 16.0   | 17.2   | 17.7   | 15.4   | 10.1   | 3.5    | 0.0   | 0.0   | 0.0  |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.6    | 1.2    | 1.2    | 1.2    | 0.0    | 0.0   | 0.0   | 0.6  |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.6   | 0.6  |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.6   | 0.6  |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.6   | 1.2  |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 1.2   | 1.2  |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6   | 1.2   | 1.2  |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6   | 1.2   | 1.2  |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6   | 1.2   | 1.2  |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6   | 1.2   | 1.2  |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6   | 1.2   | 1.2  |



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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 | 0.0 | 0.6 | 1.2   | 1.2 |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.2   | 1.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.2   | 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: LDSQA3D09R35W2N902750DE010 3LSQCA30R 1MB\_3500K

**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0°    | 46.7   | 46.7 | 46.7   | 46.7 |
| 2.5°  | 36.1   | 27.8 | 23.7   | 23.1 |
| 5°    | 24.8   | 15.4 | 11.2   | 10.6 |
| 7.5°  | 17.2   | 7.7  | 5.3    | 4.7  |
| 10°   | 10.1   | 3.5  | 1.8    | 1.2  |
| 12.5° | 5.9    | 0.6  | 0.0    | 0.0  |
| 15°   | 1.8    | 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°   | 0.6    | 0.0  | 0.0    | 0.0  |
| 67.5° | 0.6    | 0.0  | 0.0    | 0.0  |
| 70°   | 0.6    | 0.0  | 0.0    | 0.0  |
| 72.5° | 0.6    | 0.0  | 0.0    | 0.0  |
| 75°   | 0.6    | 0.0  | 0.0    | 0.0  |
| 77.5° | 0.6    | 0.0  | 0.0    | 0.0  |
| 80°   | 0.6    | 0.0  | 0.0    | 0.0  |



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**CANDELA DISTRIBUTION (continued):**

|       | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 82.5° | 0.6    | 0.0  | 0.0    | 0.0  |
| 85°   | 0.6    | 0.0  | 0.0    | 0.0  |
| 87.5° | 0.6    | 0.0  | 0.0    | 0.0  |
| 90°   | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)