

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: P1326581

Luminaire Tested: LDSQA3D09R35W2N902765DE010 3LSQCA45R 1MW\_6500K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1326581  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R35W2N902765DE010 3LSQCA45R 1MW\_6500K  
Description: 3in Adjustable Tunable White LED luminaire with, R35 optic, 6500K CCT AND, 90CRI ,  
3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

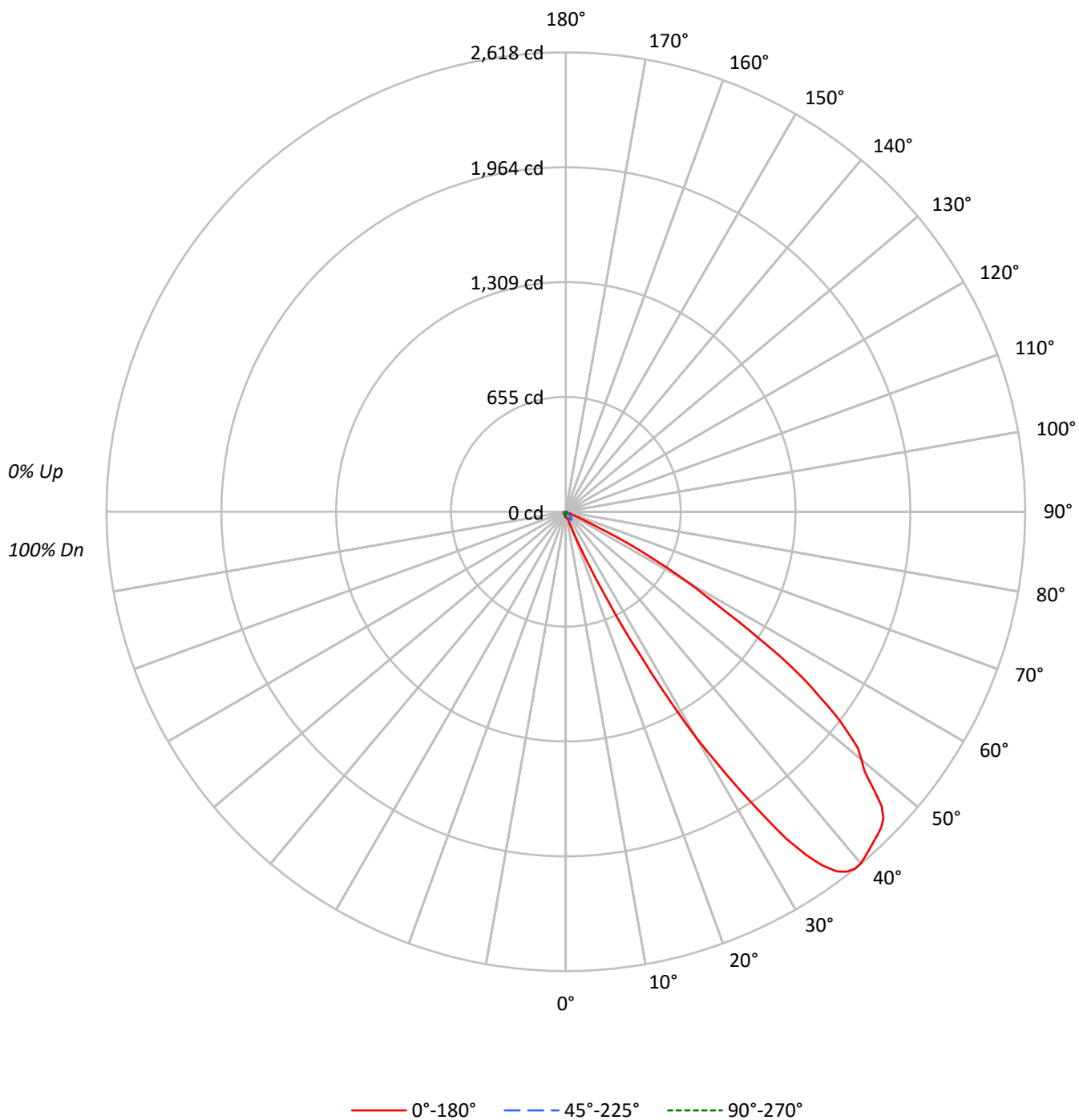
Lumens per Lamp: N/A  
Luminaire Lumens: 652.0 lumens  
Efficiency: N/A  
Efficacy: 72.4 lumens/watt  
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P1326581

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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 | 100 |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  | 87  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 73  | 73  |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  | 61  |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 50  | 50  |
| 5   | 75  | 62  | 52  | 46  | 73  | 61  | 52  | 45  | 58  | 51  | 45  | 56  | 50  | 44  | 55  | 49  | 44  | 42  | 42  |
| 6   | 68  | 54  | 45  | 38  | 66  | 53  | 44  | 38  | 51  | 43  | 38  | 50  | 43  | 37  | 48  | 42  | 37  | 35  | 35  |
| 7   | 62  | 48  | 38  | 32  | 60  | 47  | 38  | 32  | 45  | 37  | 32  | 44  | 37  | 31  | 42  | 36  | 31  | 29  | 29  |
| 8   | 57  | 42  | 33  | 27  | 55  | 41  | 33  | 27  | 40  | 32  | 27  | 39  | 32  | 26  | 38  | 31  | 26  | 24  | 24  |
| 9   | 52  | 38  | 29  | 23  | 50  | 37  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 22  | 34  | 27  | 22  | 20  | 20  |
| 10  | 48  | 34  | 25  | 19  | 46  | 33  | 25  | 19  | 32  | 25  | 19  | 31  | 24  | 19  | 30  | 24  | 19  | 17  | 17  |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 5167   | 5167  | 5167 | 5167 | 5167 |
| 5°  | 5601   | 5498  | 5083 | 4581 | 4478 |
| 10° | 5858   | 5351  | 4529 | 3917 | 3917 |
| 15° | 8398   | 5242  | 3673 | 3352 | 3459 |
| 20° | 21040  | 5608  | 2914 | 2914 | 3244 |
| 25° | 97636  | 7164  | 2242 | 2679 | 3021 |
| 30° | 296827 | 9725  | 1750 | 2466 | 3043 |
| 35° | 501666 | 11269 | 1493 | 2355 | 2964 |
| 40° | 588041 | 11106 | 1192 | 2383 | 3170 |
| 45° | 619275 | 7891  | 999  | 2582 | 3434 |
| 50° | 589475 | 4742  | 938  | 2679 | 3778 |
| 55° | 493959 | 1952  | 1051 | 3003 | 4414 |
| 60° | 276521 | 413   | 1206 | 3444 | 4857 |
| 65° | 47720  | 245   | 1182 | 3831 | 5501 |
| 70° | 906    | 302   | 1460 | 4129 | 6244 |
| 75° | 799    | 399   | 1930 | 4724 | 7053 |
| 80° | 595    | 595   | 2380 | 5256 | 8133 |
| 85° | 0      | 1186  | 4742 | 5730 | 9287 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 623653 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.7    | 0.4       |
| 10°-20°   | 7.7    | 1.2       |
| 20°-30°   | 40.0   | 6.1       |
| 30°-40°   | 172.8  | 26.5      |
| 40°-50°   | 246.4  | 37.8      |
| 50°-60°   | 152.6  | 23.4      |
| 60°-70°   | 23.2   | 3.6       |
| 70°-80°   | 4.4    | 0.7       |
| 80°-90°   | 2.2    | 0.3       |
| 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°    | 50.4   | 7.7       |
| 0°-40°    | 223.2  | 34.2      |
| 0°-60°    | 622.2  | 95.4      |
| 0°-90°    | 652.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 652.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 30   | 30  | 30  | 30   | 30   |      |
| 5°  | 32   | 32  | 29  | 26   | 26   | 3    |
| 15° | 47   | 29  | 21  | 19   | 19   | 17   |
| 25° | 514  | 38  | 12  | 14   | 16   | 307  |
| 35° | 2386 | 54  | 7   | 11   | 14   | 1433 |
| 45° | 2543 | 32  | 4   | 11   | 14   | 1921 |
| 55° | 1645 | 6   | 4   | 10   | 15   | 1401 |
| 65° | 117  | 1   | 3   | 9    | 14   | 239  |
| 75° | 1    | 1   | 3   | 7    | 11   | 1    |
| 85° | 0    | 1   | 2   | 3    | 5    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1326581

CATALOG NUMBER: LDSQA3D09R35W2N902765DE010 3LSQCA45R 1MW\_6500K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°   | 30°   | 45°  | 67.5° | 90°  | 112.5° |
|-------|--------|--------|--------|--------|--------|-------|-------|------|-------|------|--------|
| 0°    | 30.0   | 30.0   | 30.0   | 30.0   | 30.0   | 30.0  | 30.0  | 30.0 | 30.0  | 30.0 | 30.0   |
| 2.5°  | 31.2   | 31.2   | 31.2   | 31.2   | 31.2   | 31.2  | 31.2  | 31.2 | 31.2  | 30.0 | 29.4   |
| 5°    | 32.4   | 32.4   | 31.8   | 31.8   | 31.8   | 31.8  | 31.8  | 31.8 | 30.6  | 29.4 | 27.7   |
| 7.5°  | 33.0   | 33.0   | 32.4   | 32.4   | 32.4   | 32.4  | 31.8  | 31.2 | 30.0  | 27.7 | 25.9   |
| 10°   | 33.5   | 33.5   | 33.5   | 33.5   | 33.0   | 32.4  | 31.8  | 30.6 | 28.8  | 25.9 | 24.1   |
| 12.5° | 37.7   | 37.7   | 37.1   | 35.9   | 34.7   | 33.5  | 32.4  | 30.0 | 26.5  | 23.5 | 21.8   |
| 15°   | 47.1   | 46.5   | 45.3   | 43.6   | 41.2   | 38.3  | 35.9  | 29.4 | 24.1  | 20.6 | 19.4   |
| 17.5° | 65.9   | 64.7   | 63.0   | 57.1   | 51.8   | 46.5  | 41.8  | 29.4 | 21.8  | 18.2 | 17.1   |
| 20°   | 114.8  | 115.4  | 103.0  | 88.9   | 77.1   | 64.2  | 52.4  | 30.6 | 19.4  | 15.9 | 15.3   |
| 22.5° | 239.5  | 230.1  | 200.7  | 166.6  | 127.1  | 98.3  | 74.2  | 33.5 | 17.1  | 13.5 | 13.5   |
| 25°   | 513.8  | 477.9  | 406.7  | 307.2  | 216.6  | 153.6 | 107.7 | 37.7 | 15.3  | 11.8 | 12.4   |
| 27.5° | 938.2  | 905.8  | 762.8  | 574.4  | 381.4  | 231.9 | 146.0 | 43.0 | 13.5  | 10.0 | 11.2   |
| 30°   | 1492.6 | 1403.1 | 1216.6 | 941.7  | 637.4  | 354.9 | 196.0 | 48.9 | 11.2  | 8.8  | 10.6   |
| 31°   | 1665.7 | 1624.5 | 1397.3 | 1089.4 | 746.9  | 421.4 | 217.2 | 50.6 | 10.6  | 8.8  | 10.0   |
| 32°   | 1871.1 | 1798.1 | 1594.4 | 1251.3 | 858.1  | 480.9 | 242.5 | 52.4 | 10.0  | 7.7  | 10.0   |
| 33°   | 2054.7 | 1984.1 | 1736.3 | 1393.7 | 970.6  | 548.5 | 269.6 | 53.0 | 8.8   | 7.7  | 9.4    |
| 34°   | 2247.7 | 2151.2 | 1905.8 | 1542.6 | 1085.9 | 621.5 | 294.3 | 53.6 | 8.2   | 7.1  | 9.4    |
| 35°   | 2386.1 | 2289.5 | 2051.8 | 1660.4 | 1185.4 | 686.3 | 322.5 | 53.6 | 7.7   | 7.1  | 8.8    |
| 36°   | 2493.2 | 2408.4 | 2177.7 | 1781.6 | 1284.3 | 744.5 | 344.9 | 53.6 | 6.5   | 6.5  | 8.8    |
| 37°   | 2566.8 | 2486.1 | 2262.5 | 1885.8 | 1359.6 | 796.3 | 364.9 | 53.6 | 5.9   | 6.5  | 8.8    |
| 38°   | 2602.7 | 2535.6 | 2344.3 | 1961.7 | 1432.6 | 836.9 | 380.8 | 52.4 | 5.3   | 5.9  | 8.2    |
| 39°   | 2618.0 | 2563.2 | 2394.3 | 2025.9 | 1487.3 | 872.3 | 392.6 | 51.2 | 4.7   | 5.9  | 8.2    |
| 40°   | 2615.6 | 2567.9 | 2422.6 | 2070.0 | 1531.5 | 896.4 | 399.1 | 49.4 | 4.1   | 5.3  | 8.2    |
| 41°   | 2602.1 | 2560.9 | 2437.3 | 2107.7 | 1557.9 | 912.9 | 400.8 | 47.7 | 3.5   | 5.3  | 7.7    |
| 42°   | 2586.8 | 2549.1 | 2442.0 | 2127.7 | 1575.0 | 918.2 | 396.1 | 45.3 | 3.5   | 4.7  | 7.7    |
| 43°   | 2570.9 | 2536.1 | 2442.0 | 2134.2 | 1579.1 | 914.6 | 388.5 | 41.2 | 2.9   | 4.7  | 7.7    |
| 44°   | 2557.9 | 2525.0 | 2434.3 | 2132.4 | 1570.3 | 901.1 | 374.3 | 36.5 | 2.4   | 4.7  | 7.7    |
| 45°   | 2542.6 | 2510.2 | 2424.3 | 2121.2 | 1553.2 | 878.1 | 356.7 | 32.4 | 1.8   | 4.1  | 7.7    |
| 46°   | 2515.5 | 2490.2 | 2406.7 | 2098.3 | 1526.2 | 846.4 | 334.3 | 29.4 | 1.2   | 4.1  | 7.1    |
| 47°   | 2463.2 | 2441.4 | 2372.5 | 2064.1 | 1490.3 | 808.7 | 311.4 | 26.5 | 1.2   | 4.1  | 7.1    |
| 48°   | 2357.8 | 2357.2 | 2304.2 | 2000.5 | 1433.2 | 761.6 | 287.2 | 23.5 | 1.2   | 4.1  | 7.1    |
| 49°   | 2256.0 | 2245.4 | 2179.5 | 1888.7 | 1351.4 | 705.1 | 261.9 | 21.2 | 0.6   | 4.1  | 7.1    |
| 50°   | 2200.1 | 2177.1 | 2068.8 | 1756.9 | 1246.6 | 626.8 | 234.8 | 17.7 | 0.6   | 3.5  | 7.1    |
| 51°   | 2141.8 | 2108.8 | 1981.1 | 1638.0 | 1121.8 | 551.5 | 205.4 | 14.1 | 0.6   | 3.5  | 6.5    |
| 52°   | 2036.5 | 2005.3 | 1862.2 | 1524.4 | 1000.6 | 474.4 | 177.2 | 11.8 | 0.6   | 3.5  | 7.1    |
| 53°   | 1922.9 | 1878.1 | 1722.7 | 1399.6 | 894.0  | 406.1 | 148.3 | 10.0 | 0.6   | 3.5  | 6.5    |
| 54°   | 1779.8 | 1759.8 | 1581.5 | 1246.6 | 769.3  | 340.2 | 121.8 | 8.2  | 0.6   | 3.5  | 6.5    |
| 55°   | 1645.1 | 1615.6 | 1430.2 | 1090.0 | 656.3  | 279.0 | 101.8 | 6.5  | 0.6   | 3.5  | 6.5    |
| 56°   | 1473.2 | 1429.0 | 1255.4 | 946.4  | 541.5  | 224.8 | 85.9  | 5.3  | 0.6   | 3.5  | 6.5    |
| 57°   | 1268.4 | 1221.3 | 1084.1 | 786.9  | 424.9  | 171.3 | 71.8  | 4.1  | 0.6   | 3.5  | 6.5    |
| 58°   | 1073.0 | 1032.4 | 885.2  | 607.4  | 320.2  | 118.9 | 59.4  | 2.9  | 0.6   | 2.9  | 6.5    |
| 59°   | 927.0  | 882.3  | 736.3  | 467.3  | 222.5  | 87.7  | 44.7  | 2.4  | 0.6   | 3.5  | 6.5    |
| 60°   | 802.8  | 745.1  | 592.7  | 362.0  | 158.9  | 63.0  | 33.0  | 1.2  | 1.2   | 3.5  | 6.5    |
| 62.5° | 462.6  | 408.5  | 283.1  | 147.1  | 65.3   | 32.4  | 15.9  | 0.6  | 1.2   | 3.5  | 6.5    |
| 65°   | 117.1  | 104.2  | 67.7   | 31.8   | 18.2   | 11.2  | 5.9   | 0.6  | 1.2   | 2.9  | 5.9    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 67.5° | 4.1 | 4.1 | 4.1 | 3.5 | 2.9 | 2.4 | 1.2 | 0.6 | 1.2   | 2.9 | 5.9    |
| 70°   | 1.8 | 1.8 | 1.8 | 1.2 | 1.2 | 0.6 | 0.6 | 0.6 | 1.2   | 2.9 | 5.3    |
| 72.5° | 1.2 | 1.2 | 1.2 | 1.2 | 0.6 | 0.6 | 0.6 | 0.6 | 1.8   | 2.9 | 4.7    |
| 75°   | 1.2 | 1.2 | 1.2 | 1.2 | 0.6 | 0.6 | 0.6 | 0.6 | 1.8   | 2.9 | 4.7    |
| 77.5° | 1.2 | 1.2 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.8   | 2.4 | 4.1    |
| 80°   | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.8   | 2.4 | 3.5    |
| 82.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.8   | 2.4 | 2.9    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.6 | 1.8   | 2.4 | 2.4    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 1.8   | 2.4 | 1.8    |
| 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: LDSQA3D09R35W2N902765DE010 3LSQCA45R 1MW\_6500K

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 30.0 | 30.0   | 30.0 |
| 2.5°  | 28.3 | 28.3   | 28.3 |
| 5°    | 26.5 | 26.5   | 25.9 |
| 7.5°  | 24.7 | 24.1   | 24.1 |
| 10°   | 22.4 | 22.4   | 22.4 |
| 12.5° | 20.6 | 20.6   | 20.6 |
| 15°   | 18.8 | 19.4   | 19.4 |
| 17.5° | 17.1 | 18.2   | 18.2 |
| 20°   | 15.9 | 17.1   | 17.7 |
| 22.5° | 14.7 | 15.9   | 16.5 |
| 25°   | 14.1 | 15.3   | 15.9 |
| 27.5° | 12.9 | 14.7   | 15.9 |
| 30°   | 12.4 | 14.1   | 15.3 |
| 31°   | 12.4 | 14.1   | 14.7 |
| 32°   | 11.8 | 14.1   | 14.7 |
| 33°   | 11.8 | 14.1   | 14.7 |
| 34°   | 11.8 | 13.5   | 14.7 |
| 35°   | 11.2 | 13.5   | 14.1 |
| 36°   | 11.2 | 13.5   | 14.1 |
| 37°   | 11.2 | 13.5   | 14.7 |
| 38°   | 11.2 | 13.5   | 14.1 |
| 39°   | 10.6 | 13.5   | 14.1 |
| 40°   | 10.6 | 13.5   | 14.1 |
| 41°   | 10.6 | 13.5   | 14.1 |
| 42°   | 10.6 | 13.5   | 14.1 |
| 43°   | 10.6 | 13.5   | 14.1 |
| 44°   | 10.6 | 12.9   | 14.1 |
| 45°   | 10.6 | 12.9   | 14.1 |
| 46°   | 10.6 | 13.5   | 14.1 |
| 47°   | 10.6 | 13.5   | 14.7 |
| 48°   | 10.6 | 12.9   | 14.1 |
| 49°   | 10.0 | 12.9   | 14.1 |
| 50°   | 10.0 | 12.9   | 14.1 |
| 51°   | 10.0 | 13.5   | 14.7 |
| 52°   | 10.0 | 13.5   | 14.7 |
| 53°   | 10.0 | 13.5   | 14.7 |
| 54°   | 10.0 | 13.5   | 14.1 |
| 55°   | 10.0 | 13.5   | 14.7 |
| 56°   | 10.0 | 13.5   | 14.1 |
| 57°   | 10.0 | 13.5   | 14.1 |
| 58°   | 10.0 | 12.9   | 14.1 |
| 59°   | 10.0 | 12.9   | 14.1 |
| 60°   | 10.0 | 12.9   | 14.1 |
| 62.5° | 9.4  | 12.9   | 14.1 |
| 65°   | 9.4  | 12.4   | 13.5 |



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CATALOG NUMBER: LDSQA3D09R35W2N902765DE010 3LSQCA45R 1MW\_6500K

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 8.8  | 12.4   | 12.9 |
| 70°   | 8.2  | 11.8   | 12.4 |
| 72.5° | 7.7  | 11.2   | 11.8 |
| 75°   | 7.1  | 10.0   | 10.6 |
| 77.5° | 5.9  | 8.8    | 10.0 |
| 80°   | 5.3  | 7.7    | 8.2  |
| 82.5° | 4.1  | 6.5    | 7.1  |
| 85°   | 2.9  | 4.7    | 4.7  |
| 87.5° | 1.2  | 2.4    | 2.4  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)