

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: P1326489

Luminaire Tested: LDSQA3D09R35W2N902750DE010 3LSQCA45R 1MW\_4000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1326489  
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: LDSQA3D09R35W2N902750DE010 3LSQCA45R 1MW\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R35 optic, 4000K CCT AND, 90CRI ,  
3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

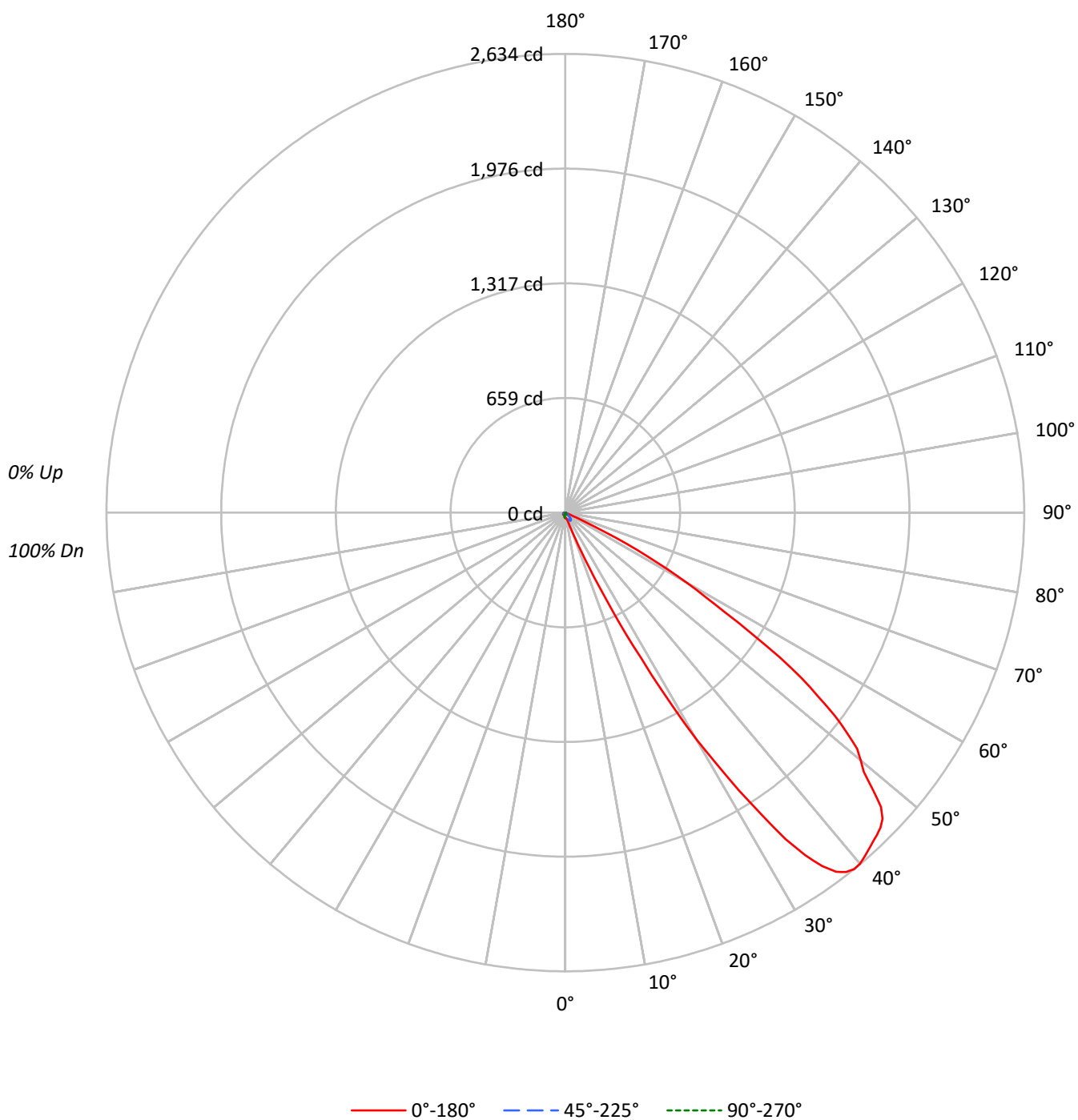
Lumens per Lamp: N/A  
Luminaire Lumens: 656.0 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1326489

CATALOG NUMBER: LDSQA3D09R35W2N902750DE010 3LSQCA45R 1MW\_4000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1326489

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

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 5201   | 5201  | 5201 | 5201 | 5201 |
| 5°  | 5636   | 5532  | 5117 | 4599 | 4512 |
| 10° | 5911   | 5386  | 4564 | 3935 | 3935 |
| 15° | 8451   | 5278  | 3691 | 3370 | 3477 |
| 20° | 21168  | 5645  | 2932 | 2932 | 3262 |
| 25° | 98244  | 7202  | 2242 | 2698 | 3040 |
| 30° | 298656 | 9784  | 1770 | 2466 | 3063 |
| 35° | 504735 | 11332 | 1493 | 2376 | 2985 |
| 40° | 591638 | 11174 | 1192 | 2406 | 3192 |
| 45° | 623074 | 7940  | 999  | 2606 | 3459 |
| 50° | 593092 | 4769  | 965  | 2706 | 3805 |
| 55° | 496962 | 1952  | 1081 | 3033 | 4444 |
| 60° | 278208 | 413   | 1240 | 3479 | 4891 |
| 65° | 48005  | 245   | 1223 | 3871 | 5542 |
| 70° | 906    | 302   | 1511 | 4179 | 6244 |
| 75° | 799    | 399   | 1996 | 4724 | 7120 |
| 80° | 595    | 595   | 2380 | 5256 | 8232 |
| 85° | 0      | 1186  | 4742 | 5928 | 9287 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 627496 cd/sqm

TEST NUMBER: P1326489

CATALOG NUMBER: LDSQA3D09R35W2N902750DE010 3LSQCA45R 1MW\_4000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.7    | 0.4       |
| 10°-20°   | 7.7    | 1.2       |
| 20°-30°   | 40.3   | 6.1       |
| 30°-40°   | 173.8  | 26.5      |
| 40°-50°   | 248.0  | 37.8      |
| 50°-60°   | 153.6  | 23.4      |
| 60°-70°   | 23.4   | 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°    | 50.7   | 7.7       |
| 0°-40°    | 224.5  | 34.2      |
| 0°-60°    | 626.1  | 95.4      |
| 0°-90°    | 656.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 656.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 30   | 30  | 30  | 30   | 30   |      |
| 5°  | 33   | 32  | 30  | 27   | 26   | 3    |
| 15° | 47   | 30  | 21  | 19   | 20   | 17   |
| 25° | 517  | 38  | 12  | 14   | 16   | 309  |
| 35° | 2401 | 54  | 7   | 11   | 14   | 1441 |
| 45° | 2558 | 33  | 4   | 11   | 14   | 1933 |
| 55° | 1655 | 6   | 4   | 10   | 15   | 1410 |
| 65° | 118  | 1   | 3   | 10   | 14   | 241  |
| 75° | 1    | 1   | 3   | 7    | 11   | 1    |
| 85° | 0    | 1   | 2   | 3    | 5    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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CATALOG NUMBER: LDSQA3D09R35W2N902750DE010 3LSQCA45R 1MW\_4000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°   | 30°   | 45°  | 67.5° | 90°  | 112.5° |
|-------|--------|--------|--------|--------|--------|-------|-------|------|-------|------|--------|
| 0°    | 30.2   | 30.2   | 30.2   | 30.2   | 30.2   | 30.2  | 30.2  | 30.2 | 30.2  | 30.2 | 30.2   |
| 2.5°  | 31.4   | 31.4   | 31.4   | 31.4   | 31.4   | 31.4  | 31.4  | 31.4 | 31.4  | 30.2 | 29.6   |
| 5°    | 32.6   | 32.6   | 32.0   | 32.0   | 32.0   | 32.0  | 32.0  | 32.0 | 30.8  | 29.6 | 27.8   |
| 7.5°  | 33.2   | 33.2   | 32.6   | 32.6   | 32.6   | 32.6  | 32.0  | 31.4 | 30.2  | 27.8 | 26.1   |
| 10°   | 33.8   | 33.8   | 33.8   | 33.8   | 33.2   | 32.6  | 32.0  | 30.8 | 29.0  | 26.1 | 24.3   |
| 12.5° | 37.9   | 37.9   | 37.3   | 36.1   | 34.9   | 33.8  | 32.6  | 30.2 | 26.6  | 23.7 | 21.9   |
| 15°   | 47.4   | 46.8   | 45.6   | 43.8   | 41.5   | 38.5  | 36.1  | 29.6 | 24.3  | 20.7 | 19.5   |
| 17.5° | 66.3   | 65.1   | 63.4   | 57.4   | 52.1   | 46.8  | 42.0  | 29.6 | 21.9  | 18.4 | 17.2   |
| 20°   | 115.5  | 116.1  | 103.6  | 89.4   | 77.6   | 64.5  | 52.7  | 30.8 | 19.5  | 16.0 | 15.4   |
| 22.5° | 241.0  | 231.5  | 201.9  | 167.6  | 127.9  | 98.9  | 74.6  | 33.8 | 17.2  | 13.6 | 13.6   |
| 25°   | 517.0  | 480.9  | 409.2  | 309.1  | 217.9  | 154.6 | 108.4 | 37.9 | 15.4  | 11.8 | 12.4   |
| 27.5° | 943.9  | 911.4  | 767.5  | 578.0  | 383.7  | 233.3 | 146.9 | 43.2 | 13.6  | 10.1 | 11.3   |
| 30°   | 1501.8 | 1411.8 | 1224.0 | 947.5  | 641.3  | 357.1 | 197.2 | 49.2 | 11.3  | 8.9  | 10.7   |
| 31°   | 1675.9 | 1634.4 | 1405.8 | 1096.1 | 751.5  | 424.0 | 218.5 | 50.9 | 10.7  | 8.9  | 10.1   |
| 32°   | 1882.5 | 1809.1 | 1604.2 | 1259.0 | 863.4  | 483.8 | 244.0 | 52.7 | 10.1  | 7.7  | 10.1   |
| 33°   | 2067.3 | 1996.2 | 1746.9 | 1402.3 | 976.5  | 551.9 | 271.2 | 53.3 | 8.9   | 7.7  | 9.5    |
| 34°   | 2261.5 | 2164.4 | 1917.5 | 1552.1 | 1092.6 | 625.3 | 296.1 | 53.9 | 8.3   | 7.1  | 9.5    |
| 35°   | 2400.7 | 2303.6 | 2064.3 | 1670.5 | 1192.7 | 690.5 | 324.5 | 53.9 | 7.7   | 7.1  | 8.9    |
| 36°   | 2508.5 | 2423.2 | 2191.1 | 1792.5 | 1292.1 | 749.1 | 347.0 | 53.9 | 6.5   | 6.5  | 8.9    |
| 37°   | 2582.5 | 2501.4 | 2276.3 | 1897.3 | 1367.9 | 801.2 | 367.2 | 53.9 | 5.9   | 6.5  | 8.9    |
| 38°   | 2618.6 | 2551.1 | 2358.7 | 1973.7 | 1441.4 | 842.1 | 383.1 | 52.7 | 5.3   | 5.9  | 8.3    |
| 39°   | 2634.0 | 2578.9 | 2409.0 | 2038.3 | 1496.4 | 877.6 | 395.0 | 51.5 | 4.7   | 5.9  | 8.3    |
| 40°   | 2631.6 | 2583.7 | 2437.4 | 2082.7 | 1540.9 | 901.9 | 401.5 | 49.7 | 4.1   | 5.3  | 8.3    |
| 41°   | 2618.0 | 2576.6 | 2452.2 | 2120.6 | 1567.5 | 918.5 | 403.3 | 48.0 | 3.6   | 5.3  | 7.7    |
| 42°   | 2602.6 | 2564.7 | 2457.0 | 2140.7 | 1584.7 | 923.8 | 398.5 | 45.6 | 3.6   | 4.7  | 7.7    |
| 43°   | 2586.6 | 2551.7 | 2457.0 | 2147.2 | 1588.8 | 920.2 | 390.8 | 41.5 | 3.0   | 4.7  | 7.7    |
| 44°   | 2573.6 | 2540.5 | 2449.3 | 2145.5 | 1579.9 | 906.6 | 376.6 | 36.7 | 2.4   | 4.7  | 7.7    |
| 45°   | 2558.2 | 2525.6 | 2439.2 | 2134.2 | 1562.8 | 883.5 | 358.9 | 32.6 | 1.8   | 4.1  | 7.7    |
| 46°   | 2531.0 | 2505.5 | 2421.4 | 2111.1 | 1535.5 | 851.6 | 336.4 | 29.6 | 1.2   | 4.1  | 7.1    |
| 47°   | 2478.3 | 2456.4 | 2387.1 | 2076.8 | 1499.4 | 813.7 | 313.3 | 26.6 | 1.2   | 4.1  | 7.1    |
| 48°   | 2372.3 | 2371.7 | 2318.4 | 2012.8 | 1442.0 | 766.3 | 289.0 | 23.7 | 1.2   | 4.1  | 7.1    |
| 49°   | 2269.8 | 2259.2 | 2192.8 | 1900.3 | 1359.6 | 709.4 | 263.5 | 21.3 | 0.6   | 4.1  | 7.1    |
| 50°   | 2213.6 | 2190.5 | 2081.5 | 1767.7 | 1254.2 | 630.7 | 236.3 | 17.8 | 0.6   | 3.6  | 7.1    |
| 51°   | 2154.9 | 2121.8 | 1993.3 | 1648.0 | 1128.7 | 554.9 | 206.7 | 14.2 | 0.6   | 3.6  | 6.5    |
| 52°   | 2048.9 | 2017.6 | 1873.7 | 1533.7 | 1006.7 | 477.3 | 178.2 | 11.8 | 0.6   | 3.6  | 7.1    |
| 53°   | 1934.7 | 1889.6 | 1733.3 | 1408.2 | 899.5  | 408.6 | 149.2 | 10.1 | 0.6   | 3.6  | 6.5    |
| 54°   | 1790.8 | 1770.6 | 1591.2 | 1254.2 | 774.0  | 342.3 | 122.6 | 8.3  | 0.6   | 3.6  | 6.5    |
| 55°   | 1655.1 | 1625.5 | 1439.0 | 1096.7 | 660.3  | 280.7 | 102.4 | 6.5  | 0.6   | 3.6  | 6.5    |
| 56°   | 1482.2 | 1437.8 | 1263.1 | 952.2  | 544.8  | 226.2 | 86.5  | 5.3  | 0.6   | 3.6  | 6.5    |
| 57°   | 1276.1 | 1228.8 | 1090.8 | 791.7  | 427.6  | 172.3 | 72.2  | 4.1  | 0.6   | 3.6  | 6.5    |
| 58°   | 1079.5 | 1038.7 | 890.6  | 611.1  | 322.1  | 119.6 | 59.8  | 3.0  | 0.6   | 3.0  | 6.5    |
| 59°   | 932.7  | 887.7  | 740.8  | 470.2  | 223.8  | 88.2  | 45.0  | 2.4  | 0.6   | 3.6  | 6.5    |
| 60°   | 807.7  | 749.7  | 596.3  | 364.2  | 159.9  | 63.4  | 33.2  | 1.2  | 1.2   | 3.6  | 6.5    |
| 62.5° | 465.5  | 411.0  | 284.8  | 148.0  | 65.7   | 32.6  | 16.0  | 0.6  | 1.2   | 3.6  | 6.5    |
| 65°   | 117.8  | 104.8  | 68.1   | 32.0   | 18.4   | 11.3  | 5.9   | 0.6  | 1.2   | 3.0  | 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 | 3.6 | 3.0 | 2.4 | 1.2 | 0.6 | 1.2   | 3.0 | 5.9    |
| 70°   | 1.8 | 1.8 | 1.8 | 1.2 | 1.2 | 0.6 | 0.6 | 0.6 | 1.2   | 3.0 | 5.3    |
| 72.5° | 1.2 | 1.2 | 1.2 | 1.2 | 0.6 | 0.6 | 0.6 | 0.6 | 1.8   | 3.0 | 4.7    |
| 75°   | 1.2 | 1.2 | 1.2 | 1.2 | 0.6 | 0.6 | 0.6 | 0.6 | 1.8   | 3.0 | 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 | 3.6    |
| 82.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.8   | 2.4 | 3.0    |
| 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: LDSQA3D09R35W2N902750DE010 3LSQCA45R 1MW\_4000K

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 30.2 | 30.2   | 30.2 |
| 2.5°  | 28.4 | 28.4   | 28.4 |
| 5°    | 26.6 | 26.6   | 26.1 |
| 7.5°  | 24.9 | 24.3   | 24.3 |
| 10°   | 22.5 | 22.5   | 22.5 |
| 12.5° | 20.7 | 20.7   | 20.7 |
| 15°   | 18.9 | 19.5   | 19.5 |
| 17.5° | 17.2 | 18.4   | 18.4 |
| 20°   | 16.0 | 17.2   | 17.8 |
| 22.5° | 14.8 | 16.0   | 16.6 |
| 25°   | 14.2 | 15.4   | 16.0 |
| 27.5° | 13.0 | 14.8   | 16.0 |
| 30°   | 12.4 | 14.2   | 15.4 |
| 31°   | 12.4 | 14.2   | 14.8 |
| 32°   | 11.8 | 14.2   | 14.8 |
| 33°   | 11.8 | 14.2   | 14.8 |
| 34°   | 11.8 | 13.6   | 14.8 |
| 35°   | 11.3 | 13.6   | 14.2 |
| 36°   | 11.3 | 13.6   | 14.2 |
| 37°   | 11.3 | 13.6   | 14.8 |
| 38°   | 11.3 | 13.6   | 14.2 |
| 39°   | 10.7 | 13.6   | 14.2 |
| 40°   | 10.7 | 13.6   | 14.2 |
| 41°   | 10.7 | 13.6   | 14.2 |
| 42°   | 10.7 | 13.6   | 14.2 |
| 43°   | 10.7 | 13.6   | 14.2 |
| 44°   | 10.7 | 13.0   | 14.2 |
| 45°   | 10.7 | 13.0   | 14.2 |
| 46°   | 10.7 | 13.6   | 14.2 |
| 47°   | 10.7 | 13.6   | 14.8 |
| 48°   | 10.7 | 13.0   | 14.2 |
| 49°   | 10.1 | 13.0   | 14.2 |
| 50°   | 10.1 | 13.0   | 14.2 |
| 51°   | 10.1 | 13.6   | 14.8 |
| 52°   | 10.1 | 13.6   | 14.8 |
| 53°   | 10.1 | 13.6   | 14.8 |
| 54°   | 10.1 | 13.6   | 14.2 |
| 55°   | 10.1 | 13.6   | 14.8 |
| 56°   | 10.1 | 13.6   | 14.2 |
| 57°   | 10.1 | 13.6   | 14.2 |
| 58°   | 10.1 | 13.0   | 14.2 |
| 59°   | 10.1 | 13.0   | 14.2 |
| 60°   | 10.1 | 13.0   | 14.2 |
| 62.5° | 9.5  | 13.0   | 14.2 |
| 65°   | 9.5  | 12.4   | 13.6 |

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CATALOG NUMBER: LDSQA3D09R35W2N902750DE010 3LSQCA45R 1MW\_4000K

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 8.9  | 12.4   | 13.0 |
| 70°   | 8.3  | 11.8   | 12.4 |
| 72.5° | 7.7  | 11.3   | 11.8 |
| 75°   | 7.1  | 10.1   | 10.7 |
| 77.5° | 5.9  | 8.9    | 10.1 |
| 80°   | 5.3  | 7.7    | 8.3  |
| 82.5° | 4.1  | 6.5    | 7.1  |
| 85°   | 3.0  | 4.7    | 4.7  |
| 87.5° | 1.2  | 2.4    | 2.4  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)