

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: P1320841

Luminaire Tested: LDSQA3D02R35B2750DE010 3LSQCA45R 1MW\_3000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1320841  
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: LDSQA3D02R35B2750DE010 3LSQCA45R 1MW\_3000K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R35 optic, 3000K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

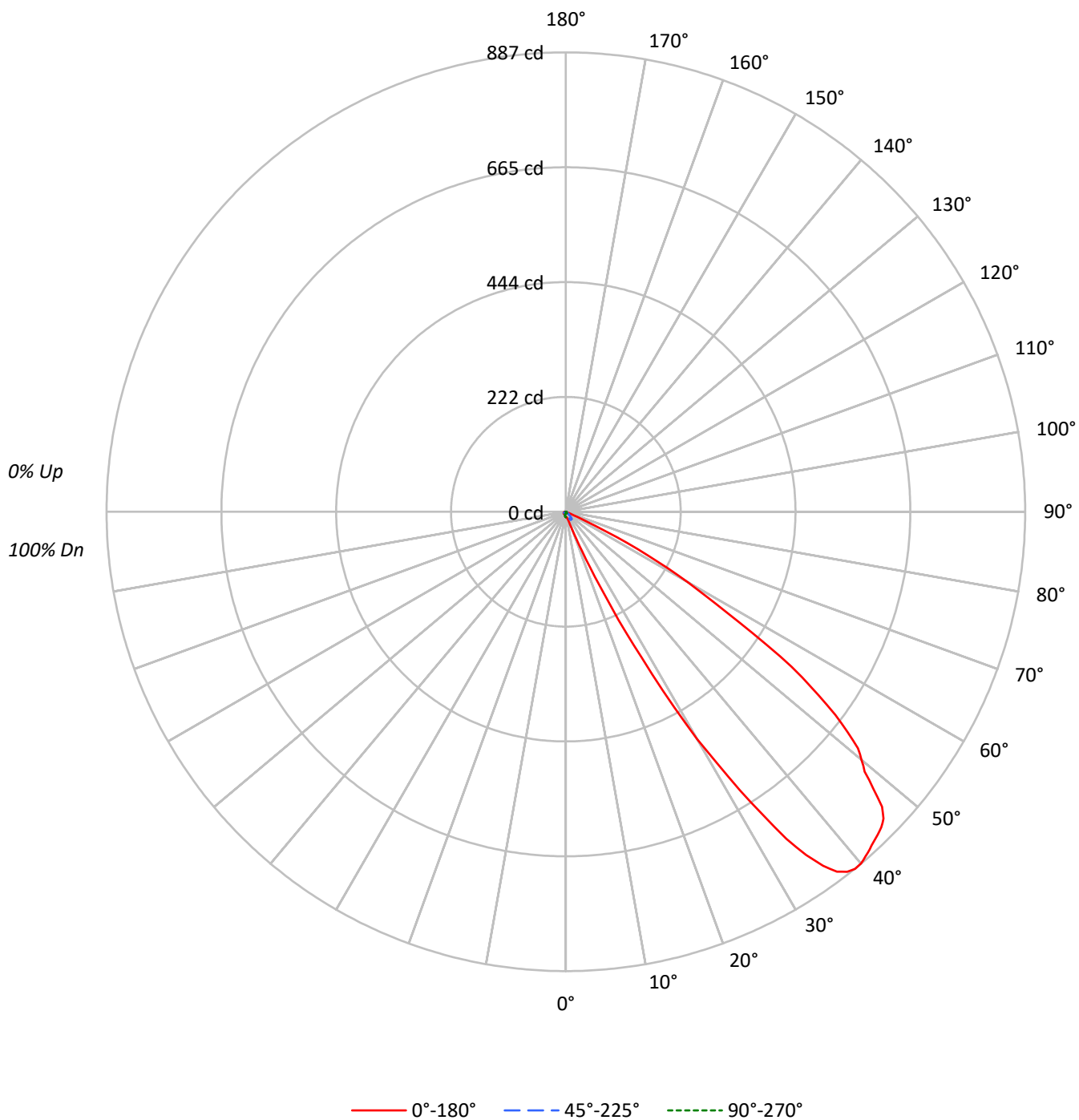
Lumens per Lamp: N/A  
Luminaire Lumens: 221.0 lumens  
Efficiency: N/A  
Efficacy: 76.2 lumens/watt  
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 2.9  
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: P1320841

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### Luminous Intensity Polar Plot



TEST NUMBER: P1320841

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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°  | 1757   | 1757 | 1757 | 1757 | 1757 |
| 5°  | 1902   | 1867 | 1729 | 1556 | 1521 |
| 10° | 1994   | 1819 | 1539 | 1329 | 1329 |
| 15° | 2853   | 1783 | 1248 | 1141 | 1177 |
| 20° | 7129   | 1906 | 990  | 990  | 1100 |
| 25° | 33103  | 2432 | 760  | 912  | 1026 |
| 30° | 100606 | 3301 | 597  | 835  | 1034 |
| 35° | 170046 | 3826 | 505  | 799  | 1009 |
| 40° | 199326 | 3777 | 405  | 809  | 1079 |
| 45° | 209900 | 2679 | 341  | 877  | 1169 |
| 50° | 199796 | 1608 | 322  | 911  | 1286 |
| 55° | 167426 | 661  | 360  | 1021 | 1501 |
| 60° | 93724  | 138  | 413  | 1171 | 1653 |
| 65° | 16178  | 82   | 408  | 1304 | 1875 |
| 70° | 302    | 101  | 504  | 1410 | 2115 |
| 75° | 266    | 133  | 665  | 1597 | 2396 |
| 80° | 198    | 198  | 793  | 1785 | 2777 |
| 85° | 0      | 395  | 1581 | 1976 | 3162 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 211405 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 0.9    | 0.4       |
| 10°-20°   | 2.6    | 1.2       |
| 20°-30°   | 13.6   | 6.1       |
| 30°-40°   | 58.6   | 26.5      |
| 40°-50°   | 83.5   | 37.8      |
| 50°-60°   | 51.7   | 23.4      |
| 60°-70°   | 7.9    | 3.6       |
| 70°-80°   | 1.5    | 0.7       |
| 80°-90°   | 0.7    | 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°    | 17.1   | 7.7       |
| 0°-40°    | 75.7   | 34.2      |
| 0°-60°    | 210.9  | 95.4      |
| 0°-90°    | 221.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 221.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 10  | 10  | 10  | 10   | 10   |      |
| 5°  | 11  | 11  | 10  | 9    | 9    | 1    |
| 15° | 16  | 10  | 7   | 6    | 7    | 6    |
| 25° | 174 | 13  | 4   | 5    | 5    | 104  |
| 35° | 809 | 18  | 2   | 4    | 5    | 486  |
| 45° | 862 | 11  | 1   | 4    | 5    | 651  |
| 55° | 558 | 2   | 1   | 3    | 5    | 475  |
| 65° | 40  | 0   | 1   | 3    | 5    | 81   |
| 75° | 0   | 0   | 1   | 2    | 4    | 0    |
| 85° | 0   | 0   | 1   | 1    | 2    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 45°  | 67.5° | 90°  | 112.5° |
|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|--------|
| 0°    | 10.2  | 10.2  | 10.2  | 10.2  | 10.2  | 10.2  | 10.2  | 10.2 | 10.2  | 10.2 | 10.2   |
| 2.5°  | 10.6  | 10.6  | 10.6  | 10.6  | 10.6  | 10.6  | 10.6  | 10.6 | 10.6  | 10.2 | 10.0   |
| 5°    | 11.0  | 11.0  | 10.8  | 10.8  | 10.8  | 10.8  | 10.8  | 10.8 | 10.4  | 10.0 | 9.4    |
| 7.5°  | 11.2  | 11.2  | 11.0  | 11.0  | 11.0  | 11.0  | 10.8  | 10.6 | 10.2  | 9.4  | 8.8    |
| 10°   | 11.4  | 11.4  | 11.4  | 11.4  | 11.2  | 11.0  | 10.8  | 10.4 | 9.8   | 8.8  | 8.2    |
| 12.5° | 12.8  | 12.8  | 12.6  | 12.2  | 11.8  | 11.4  | 11.0  | 10.2 | 9.0   | 8.0  | 7.4    |
| 15°   | 16.0  | 15.8  | 15.4  | 14.8  | 14.0  | 13.0  | 12.2  | 10.0 | 8.2   | 7.0  | 6.6    |
| 17.5° | 22.3  | 21.9  | 21.3  | 19.4  | 17.6  | 15.8  | 14.2  | 10.0 | 7.4   | 6.2  | 5.8    |
| 20°   | 38.9  | 39.1  | 34.9  | 30.1  | 26.1  | 21.7  | 17.8  | 10.4 | 6.6   | 5.4  | 5.2    |
| 22.5° | 81.2  | 78.0  | 68.0  | 56.5  | 43.1  | 33.3  | 25.1  | 11.4 | 5.8   | 4.6  | 4.6    |
| 25°   | 174.2 | 162.0 | 137.9 | 104.1 | 73.4  | 52.1  | 36.5  | 12.8 | 5.2   | 4.0  | 4.2    |
| 27.5° | 318.0 | 307.0 | 258.6 | 194.7 | 129.3 | 78.6  | 49.5  | 14.6 | 4.6   | 3.4  | 3.8    |
| 30°   | 505.9 | 475.6 | 412.4 | 319.2 | 216.1 | 120.3 | 66.4  | 16.6 | 3.8   | 3.0  | 3.6    |
| 31°   | 564.6 | 550.6 | 473.6 | 369.3 | 253.2 | 142.8 | 73.6  | 17.2 | 3.6   | 3.0  | 3.4    |
| 32°   | 634.2 | 609.5 | 540.4 | 424.1 | 290.9 | 163.0 | 82.2  | 17.8 | 3.4   | 2.6  | 3.4    |
| 33°   | 696.5 | 672.5 | 588.5 | 472.4 | 329.0 | 185.9 | 91.4  | 18.0 | 3.0   | 2.6  | 3.2    |
| 34°   | 761.9 | 729.2 | 646.0 | 522.9 | 368.1 | 210.7 | 99.7  | 18.2 | 2.8   | 2.4  | 3.2    |
| 35°   | 808.8 | 776.1 | 695.5 | 562.8 | 401.8 | 232.6 | 109.3 | 18.2 | 2.6   | 2.4  | 3.0    |
| 36°   | 845.1 | 816.4 | 738.1 | 603.9 | 435.3 | 252.4 | 116.9 | 18.2 | 2.2   | 2.2  | 3.0    |
| 37°   | 870.0 | 842.7 | 766.9 | 639.2 | 460.8 | 269.9 | 123.7 | 18.2 | 2.0   | 2.2  | 3.0    |
| 38°   | 882.2 | 859.4 | 794.6 | 664.9 | 485.6 | 283.7 | 129.1 | 17.8 | 1.8   | 2.0  | 2.8    |
| 39°   | 887.4 | 868.8 | 811.6 | 686.7 | 504.1 | 295.7 | 133.1 | 17.4 | 1.6   | 2.0  | 2.8    |
| 40°   | 886.6 | 870.4 | 821.1 | 701.6 | 519.1 | 303.8 | 135.3 | 16.8 | 1.4   | 1.8  | 2.8    |
| 41°   | 882.0 | 868.0 | 826.1 | 714.4 | 528.1 | 309.4 | 135.9 | 16.2 | 1.2   | 1.8  | 2.6    |
| 42°   | 876.8 | 864.0 | 827.7 | 721.2 | 533.9 | 311.2 | 134.3 | 15.4 | 1.2   | 1.6  | 2.6    |
| 43°   | 871.4 | 859.6 | 827.7 | 723.4 | 535.3 | 310.0 | 131.7 | 14.0 | 1.0   | 1.6  | 2.6    |
| 44°   | 867.0 | 855.9 | 825.1 | 722.8 | 532.3 | 305.4 | 126.9 | 12.4 | 0.8   | 1.6  | 2.6    |
| 45°   | 861.8 | 850.9 | 821.7 | 719.0 | 526.5 | 297.7 | 120.9 | 11.0 | 0.6   | 1.4  | 2.6    |
| 46°   | 852.7 | 844.1 | 815.8 | 711.2 | 517.3 | 286.9 | 113.3 | 10.0 | 0.4   | 1.4  | 2.4    |
| 47°   | 834.9 | 827.5 | 804.2 | 699.6 | 505.1 | 274.1 | 105.5 | 9.0  | 0.4   | 1.4  | 2.4    |
| 48°   | 799.2 | 799.0 | 781.0 | 678.1 | 485.8 | 258.2 | 97.4  | 8.0  | 0.4   | 1.4  | 2.4    |
| 49°   | 764.7 | 761.1 | 738.7 | 640.2 | 458.1 | 239.0 | 88.8  | 7.2  | 0.2   | 1.4  | 2.4    |
| 50°   | 745.7 | 737.9 | 701.2 | 595.5 | 422.5 | 212.5 | 79.6  | 6.0  | 0.2   | 1.2  | 2.4    |
| 51°   | 726.0 | 714.8 | 671.5 | 555.2 | 380.2 | 186.9 | 69.6  | 4.8  | 0.2   | 1.2  | 2.2    |
| 52°   | 690.3 | 679.7 | 631.2 | 516.7 | 339.1 | 160.8 | 60.0  | 4.0  | 0.2   | 1.2  | 2.4    |
| 53°   | 651.8 | 636.6 | 583.9 | 474.4 | 303.0 | 137.7 | 50.3  | 3.4  | 0.2   | 1.2  | 2.2    |
| 54°   | 603.3 | 596.5 | 536.1 | 422.5 | 260.7 | 115.3 | 41.3  | 2.8  | 0.2   | 1.2  | 2.2    |
| 55°   | 557.6 | 547.6 | 484.8 | 369.5 | 222.4 | 94.6  | 34.5  | 2.2  | 0.2   | 1.2  | 2.2    |
| 56°   | 499.3 | 484.4 | 425.5 | 320.8 | 183.5 | 76.2  | 29.1  | 1.8  | 0.2   | 1.2  | 2.2    |
| 57°   | 429.9 | 414.0 | 367.5 | 266.7 | 144.0 | 58.1  | 24.3  | 1.4  | 0.2   | 1.2  | 2.2    |
| 58°   | 363.7 | 349.9 | 300.0 | 205.9 | 108.5 | 40.3  | 20.1  | 1.0  | 0.2   | 1.0  | 2.2    |
| 59°   | 314.2 | 299.1 | 249.6 | 158.4 | 75.4  | 29.7  | 15.2  | 0.8  | 0.2   | 1.2  | 2.2    |
| 60°   | 272.1 | 252.6 | 200.9 | 122.7 | 53.9  | 21.3  | 11.2  | 0.4  | 0.4   | 1.2  | 2.2    |
| 62.5° | 156.8 | 138.5 | 96.0  | 49.9  | 22.1  | 11.0  | 5.4   | 0.2  | 0.4   | 1.2  | 2.2    |
| 65°   | 39.7  | 35.3  | 22.9  | 10.8  | 6.2   | 3.8   | 2.0   | 0.2  | 0.4   | 1.0  | 2.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|--------|
| 67.5° | 1.4 | 1.4 | 1.4 | 1.2 | 1.0 | 0.8 | 0.4 | 0.2 | 0.4   | 1.0 | 2.0    |
| 70°   | 0.6 | 0.6 | 0.6 | 0.4 | 0.4 | 0.2 | 0.2 | 0.2 | 0.4   | 1.0 | 1.8    |
| 72.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 | 0.6   | 1.0 | 1.6    |
| 75°   | 0.4 | 0.4 | 0.4 | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 | 0.6   | 1.0 | 1.6    |
| 77.5° | 0.4 | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.6   | 0.8 | 1.4    |
| 80°   | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.6   | 0.8 | 1.2    |
| 82.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.6   | 0.8 | 1.0    |
| 85°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.2 | 0.6   | 0.8 | 0.8    |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.6   | 0.8 | 0.6    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 10.2 | 10.2   | 10.2 |
| 2.5°  | 9.6  | 9.6    | 9.6  |
| 5°    | 9.0  | 9.0    | 8.8  |
| 7.5°  | 8.4  | 8.2    | 8.2  |
| 10°   | 7.6  | 7.6    | 7.6  |
| 12.5° | 7.0  | 7.0    | 7.0  |
| 15°   | 6.4  | 6.6    | 6.6  |
| 17.5° | 5.8  | 6.2    | 6.2  |
| 20°   | 5.4  | 5.8    | 6.0  |
| 22.5° | 5.0  | 5.4    | 5.6  |
| 25°   | 4.8  | 5.2    | 5.4  |
| 27.5° | 4.4  | 5.0    | 5.4  |
| 30°   | 4.2  | 4.8    | 5.2  |
| 31°   | 4.2  | 4.8    | 5.0  |
| 32°   | 4.0  | 4.8    | 5.0  |
| 33°   | 4.0  | 4.8    | 5.0  |
| 34°   | 4.0  | 4.6    | 5.0  |
| 35°   | 3.8  | 4.6    | 4.8  |
| 36°   | 3.8  | 4.6    | 4.8  |
| 37°   | 3.8  | 4.6    | 5.0  |
| 38°   | 3.8  | 4.6    | 4.8  |
| 39°   | 3.6  | 4.6    | 4.8  |
| 40°   | 3.6  | 4.6    | 4.8  |
| 41°   | 3.6  | 4.6    | 4.8  |
| 42°   | 3.6  | 4.6    | 4.8  |
| 43°   | 3.6  | 4.6    | 4.8  |
| 44°   | 3.6  | 4.4    | 4.8  |
| 45°   | 3.6  | 4.4    | 4.8  |
| 46°   | 3.6  | 4.6    | 4.8  |
| 47°   | 3.6  | 4.6    | 5.0  |
| 48°   | 3.6  | 4.4    | 4.8  |
| 49°   | 3.4  | 4.4    | 4.8  |
| 50°   | 3.4  | 4.4    | 4.8  |
| 51°   | 3.4  | 4.6    | 5.0  |
| 52°   | 3.4  | 4.6    | 5.0  |
| 53°   | 3.4  | 4.6    | 5.0  |
| 54°   | 3.4  | 4.6    | 4.8  |
| 55°   | 3.4  | 4.6    | 5.0  |
| 56°   | 3.4  | 4.6    | 4.8  |
| 57°   | 3.4  | 4.6    | 4.8  |
| 58°   | 3.4  | 4.4    | 4.8  |
| 59°   | 3.4  | 4.4    | 4.8  |
| 60°   | 3.4  | 4.4    | 4.8  |
| 62.5° | 3.2  | 4.4    | 4.8  |
| 65°   | 3.2  | 4.2    | 4.6  |



TEST NUMBER: P1320841

CATALOG NUMBER: LDSQA3D02R35B2750DE010 3LSQCA45R 1MW\_3000K

**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 67.5° | 3.0  | 4.2    | 4.4  |
| 70°   | 2.8  | 4.0    | 4.2  |
| 72.5° | 2.6  | 3.8    | 4.0  |
| 75°   | 2.4  | 3.4    | 3.6  |
| 77.5° | 2.0  | 3.0    | 3.4  |
| 80°   | 1.8  | 2.6    | 2.8  |
| 82.5° | 1.4  | 2.2    | 2.4  |
| 85°   | 1.0  | 1.6    | 1.6  |
| 87.5° | 0.4  | 0.8    | 0.8  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)