

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: P1320843

Luminaire Tested: LDSQA3D02R35B2750DE010 3LSQCA45R 1MW\_4000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1320843  
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\_4000K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R35 optic, 4000K CCT AND, 80CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

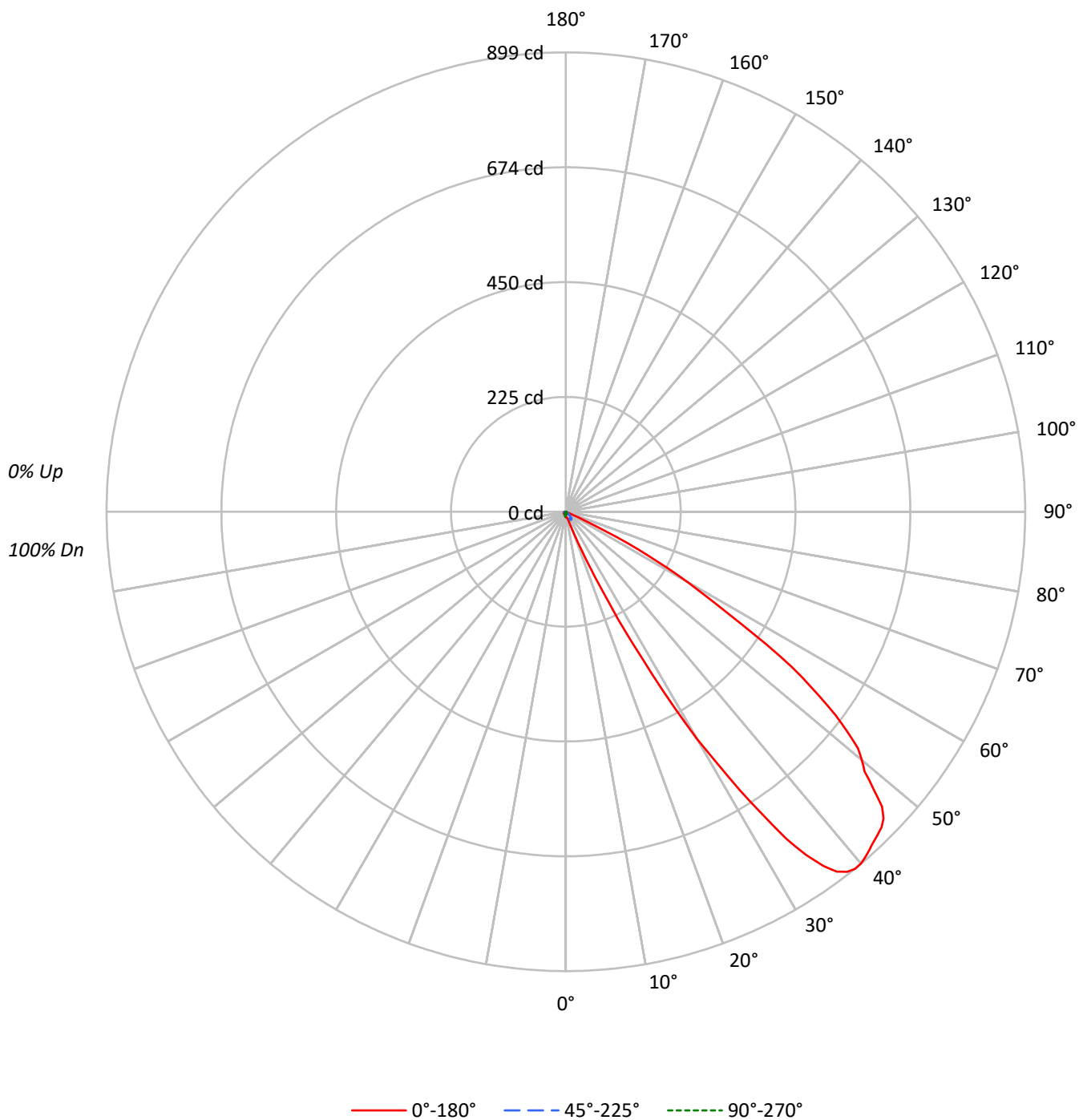
Lumens per Lamp: N/A  
Luminaire Lumens: 224.0 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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: P1320843

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### Luminous Intensity Polar Plot



TEST NUMBER: P1320843

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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°  | 1774   | 1774 | 1774 | 1774 | 1774 |
| 5°  | 1919   | 1884 | 1746 | 1573 | 1539 |
| 10° | 2011   | 1836 | 1556 | 1347 | 1347 |
| 15° | 2888   | 1801 | 1266 | 1159 | 1195 |
| 20° | 7221   | 1924 | 1008 | 1008 | 1118 |
| 25° | 33540  | 2451 | 760  | 931  | 1045 |
| 30° | 101978 | 3341 | 597  | 835  | 1054 |
| 35° | 172359 | 3869 | 505  | 799  | 1030 |
| 40° | 202024 | 3822 | 405  | 809  | 1102 |
| 45° | 212749 | 2704 | 341  | 877  | 1193 |
| 50° | 202529 | 1634 | 322  | 911  | 1313 |
| 55° | 169708 | 661  | 360  | 1021 | 1531 |
| 60° | 94998  | 138  | 413  | 1171 | 1688 |
| 65° | 16382  | 82   | 408  | 1304 | 1915 |
| 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: 214256 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°   | 13.7   | 6.1       |
| 30°-40°   | 59.4   | 26.5      |
| 40°-50°   | 84.7   | 37.8      |
| 50°-60°   | 52.4   | 23.4      |
| 60°-70°   | 8.0    | 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°    | 17.3   | 7.7       |
| 0°-40°    | 76.7   | 34.2      |
| 0°-60°    | 213.8  | 95.5      |
| 0°-90°    | 224.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 224.0  | 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° | 176 | 13  | 4   | 5    | 6    | 106  |
| 35° | 820 | 18  | 2   | 4    | 5    | 492  |
| 45° | 874 | 11  | 1   | 4    | 5    | 660  |
| 55° | 565 | 2   | 1   | 3    | 5    | 481  |
| 65° | 40  | 0   | 1   | 3    | 5    | 82   |
| 75° | 0   | 0   | 1   | 2    | 4    | 0    |
| 85° | 0   | 0   | 1   | 1    | 2    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1320843

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 45°  | 67.5° | 90°  | 112.5° |
|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|--------|
| 0°    | 10.3  | 10.3  | 10.3  | 10.3  | 10.3  | 10.3  | 10.3  | 10.3 | 10.3  | 10.3 | 10.3   |
| 2.5°  | 10.7  | 10.7  | 10.7  | 10.7  | 10.7  | 10.7  | 10.7  | 10.7 | 10.7  | 10.3 | 10.1   |
| 5°    | 11.1  | 11.1  | 10.9  | 10.9  | 10.9  | 10.9  | 10.9  | 10.9 | 10.5  | 10.1 | 9.5    |
| 7.5°  | 11.3  | 11.3  | 11.1  | 11.1  | 11.1  | 11.1  | 10.9  | 10.7 | 10.3  | 9.5  | 8.9    |
| 10°   | 11.5  | 11.5  | 11.5  | 11.5  | 11.3  | 11.1  | 10.9  | 10.5 | 9.9   | 8.9  | 8.3    |
| 12.5° | 12.9  | 12.9  | 12.7  | 12.3  | 11.9  | 11.5  | 11.1  | 10.3 | 9.1   | 8.1  | 7.5    |
| 15°   | 16.2  | 16.0  | 15.6  | 15.0  | 14.2  | 13.1  | 12.3  | 10.1 | 8.3   | 7.1  | 6.7    |
| 17.5° | 22.6  | 22.2  | 21.6  | 19.6  | 17.8  | 16.0  | 14.4  | 10.1 | 7.5   | 6.3  | 5.9    |
| 20°   | 39.4  | 39.6  | 35.4  | 30.5  | 26.5  | 22.0  | 18.0  | 10.5 | 6.7   | 5.5  | 5.3    |
| 22.5° | 82.3  | 79.1  | 69.0  | 57.2  | 43.7  | 33.8  | 25.5  | 11.5 | 5.9   | 4.7  | 4.7    |
| 25°   | 176.5 | 164.2 | 139.7 | 105.6 | 74.4  | 52.8  | 37.0  | 12.9 | 5.3   | 4.0  | 4.2    |
| 27.5° | 322.3 | 311.2 | 262.1 | 197.4 | 131.0 | 79.7  | 50.1  | 14.8 | 4.7   | 3.4  | 3.8    |
| 30°   | 512.8 | 482.1 | 418.0 | 323.5 | 219.0 | 121.9 | 67.3  | 16.8 | 3.8   | 3.0  | 3.6    |
| 31°   | 572.2 | 558.1 | 480.0 | 374.3 | 256.6 | 144.8 | 74.6  | 17.4 | 3.6   | 3.0  | 3.4    |
| 32°   | 642.8 | 617.7 | 547.8 | 429.9 | 294.8 | 165.2 | 83.3  | 18.0 | 3.4   | 2.6  | 3.4    |
| 33°   | 705.9 | 681.6 | 596.5 | 478.8 | 333.4 | 188.5 | 92.6  | 18.2 | 3.0   | 2.6  | 3.2    |
| 34°   | 772.2 | 739.1 | 654.7 | 530.0 | 373.1 | 213.5 | 101.1 | 18.4 | 2.8   | 2.4  | 3.2    |
| 35°   | 819.8 | 786.6 | 704.9 | 570.4 | 407.2 | 235.8 | 110.8 | 18.4 | 2.6   | 2.4  | 3.0    |
| 36°   | 856.6 | 827.4 | 748.2 | 612.1 | 441.2 | 255.8 | 118.5 | 18.4 | 2.2   | 2.2  | 3.0    |
| 37°   | 881.8 | 854.1 | 777.3 | 647.9 | 467.1 | 273.6 | 125.4 | 18.4 | 2.0   | 2.2  | 3.0    |
| 38°   | 894.2 | 871.1 | 805.4 | 674.0 | 492.2 | 287.5 | 130.8 | 18.0 | 1.8   | 2.0  | 2.8    |
| 39°   | 899.4 | 880.6 | 822.6 | 696.0 | 511.0 | 299.7 | 134.9 | 17.6 | 1.6   | 2.0  | 2.8    |
| 40°   | 898.6 | 882.2 | 832.3 | 711.2 | 526.1 | 308.0 | 137.1 | 17.0 | 1.4   | 1.8  | 2.8    |
| 41°   | 894.0 | 879.8 | 837.3 | 724.1 | 535.2 | 313.6 | 137.7 | 16.4 | 1.2   | 1.8  | 2.6    |
| 42°   | 888.7 | 875.8 | 839.0 | 731.0 | 541.1 | 315.4 | 136.1 | 15.6 | 1.2   | 1.6  | 2.6    |
| 43°   | 883.2 | 871.3 | 839.0 | 733.2 | 542.5 | 314.2 | 133.5 | 14.2 | 1.0   | 1.6  | 2.6    |
| 44°   | 878.8 | 867.5 | 836.3 | 732.6 | 539.5 | 309.6 | 128.6 | 12.5 | 0.8   | 1.6  | 2.6    |
| 45°   | 873.5 | 862.4 | 832.9 | 728.8 | 533.6 | 301.7 | 122.5 | 11.1 | 0.6   | 1.4  | 2.6    |
| 46°   | 864.2 | 855.5 | 826.8 | 720.9 | 524.3 | 290.8 | 114.9 | 10.1 | 0.4   | 1.4  | 2.4    |
| 47°   | 846.2 | 838.8 | 815.1 | 709.1 | 512.0 | 277.8 | 107.0 | 9.1  | 0.4   | 1.4  | 2.4    |
| 48°   | 810.0 | 809.8 | 791.6 | 687.3 | 492.4 | 261.7 | 98.7  | 8.1  | 0.4   | 1.4  | 2.4    |
| 49°   | 775.1 | 771.4 | 748.8 | 648.9 | 464.3 | 242.2 | 90.0  | 7.3  | 0.2   | 1.4  | 2.4    |
| 50°   | 755.9 | 748.0 | 710.8 | 603.6 | 428.3 | 215.4 | 80.7  | 6.1  | 0.2   | 1.2  | 2.4    |
| 51°   | 735.8 | 724.5 | 680.6 | 562.7 | 385.4 | 189.5 | 70.6  | 4.9  | 0.2   | 1.2  | 2.2    |
| 52°   | 699.6 | 688.9 | 639.8 | 523.7 | 343.8 | 163.0 | 60.9  | 4.0  | 0.2   | 1.2  | 2.4    |
| 53°   | 660.6 | 645.2 | 591.9 | 480.9 | 307.2 | 139.5 | 51.0  | 3.4  | 0.2   | 1.2  | 2.2    |
| 54°   | 611.5 | 604.6 | 543.3 | 428.3 | 264.3 | 116.9 | 41.9  | 2.8  | 0.2   | 1.2  | 2.2    |
| 55°   | 565.2 | 555.1 | 491.4 | 374.5 | 225.5 | 95.8  | 35.0  | 2.2  | 0.2   | 1.2  | 2.2    |
| 56°   | 506.1 | 491.0 | 431.3 | 325.2 | 186.0 | 77.2  | 29.5  | 1.8  | 0.2   | 1.2  | 2.2    |
| 57°   | 435.8 | 419.6 | 372.5 | 270.4 | 146.0 | 58.8  | 24.7  | 1.4  | 0.2   | 1.2  | 2.2    |
| 58°   | 368.6 | 354.7 | 304.1 | 208.7 | 110.0 | 40.8  | 20.4  | 1.0  | 0.2   | 1.0  | 2.2    |
| 59°   | 318.5 | 303.1 | 253.0 | 160.6 | 76.4  | 30.1  | 15.4  | 0.8  | 0.2   | 1.2  | 2.2    |
| 60°   | 275.8 | 256.0 | 203.6 | 124.4 | 54.6  | 21.6  | 11.3  | 0.4  | 0.4   | 1.2  | 2.2    |
| 62.5° | 158.9 | 140.3 | 97.3  | 50.6  | 22.4  | 11.1  | 5.5   | 0.2  | 0.4   | 1.2  | 2.2    |
| 65°   | 40.2  | 35.8  | 23.3  | 10.9  | 6.3   | 3.8   | 2.0   | 0.2  | 0.4   | 1.0  | 2.0    |



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CATALOG NUMBER: LDSQA3D02R35B2750DE010 3LSQCA45R 1MW\_4000K

**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°    | 10.3 | 10.3   | 10.3 |
| 2.5°  | 9.7  | 9.7    | 9.7  |
| 5°    | 9.1  | 9.1    | 8.9  |
| 7.5°  | 8.5  | 8.3    | 8.3  |
| 10°   | 7.7  | 7.7    | 7.7  |
| 12.5° | 7.1  | 7.1    | 7.1  |
| 15°   | 6.5  | 6.7    | 6.7  |
| 17.5° | 5.9  | 6.3    | 6.3  |
| 20°   | 5.5  | 5.9    | 6.1  |
| 22.5° | 5.1  | 5.5    | 5.7  |
| 25°   | 4.9  | 5.3    | 5.5  |
| 27.5° | 4.4  | 5.1    | 5.5  |
| 30°   | 4.2  | 4.9    | 5.3  |
| 31°   | 4.2  | 4.9    | 5.1  |
| 32°   | 4.0  | 4.9    | 5.1  |
| 33°   | 4.0  | 4.9    | 5.1  |
| 34°   | 4.0  | 4.7    | 5.1  |
| 35°   | 3.8  | 4.7    | 4.9  |
| 36°   | 3.8  | 4.7    | 4.9  |
| 37°   | 3.8  | 4.7    | 5.1  |
| 38°   | 3.8  | 4.7    | 4.9  |
| 39°   | 3.6  | 4.7    | 4.9  |
| 40°   | 3.6  | 4.7    | 4.9  |
| 41°   | 3.6  | 4.7    | 4.9  |
| 42°   | 3.6  | 4.7    | 4.9  |
| 43°   | 3.6  | 4.7    | 4.9  |
| 44°   | 3.6  | 4.4    | 4.9  |
| 45°   | 3.6  | 4.4    | 4.9  |
| 46°   | 3.6  | 4.7    | 4.9  |
| 47°   | 3.6  | 4.7    | 5.1  |
| 48°   | 3.6  | 4.4    | 4.9  |
| 49°   | 3.4  | 4.4    | 4.9  |
| 50°   | 3.4  | 4.4    | 4.9  |
| 51°   | 3.4  | 4.7    | 5.1  |
| 52°   | 3.4  | 4.7    | 5.1  |
| 53°   | 3.4  | 4.7    | 5.1  |
| 54°   | 3.4  | 4.7    | 4.9  |
| 55°   | 3.4  | 4.7    | 5.1  |
| 56°   | 3.4  | 4.7    | 4.9  |
| 57°   | 3.4  | 4.7    | 4.9  |
| 58°   | 3.4  | 4.4    | 4.9  |
| 59°   | 3.4  | 4.4    | 4.9  |
| 60°   | 3.4  | 4.4    | 4.9  |
| 62.5° | 3.2  | 4.4    | 4.9  |
| 65°   | 3.2  | 4.2    | 4.7  |





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CATALOG NUMBER: LDSQA3D02R35B2750DE010 3LSQCA45R 1MW\_4000K

**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)