

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: P1326534

Luminaire Tested: LDSQA3D09R35W2N902750DE010 3LSQPHRL1MW\_4000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1326534  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R35W2N902750DE010 3LSQPHRL1MW\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R35 optic, 4000K CCT AND, 90CRI ,  
3LSQPHRL1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

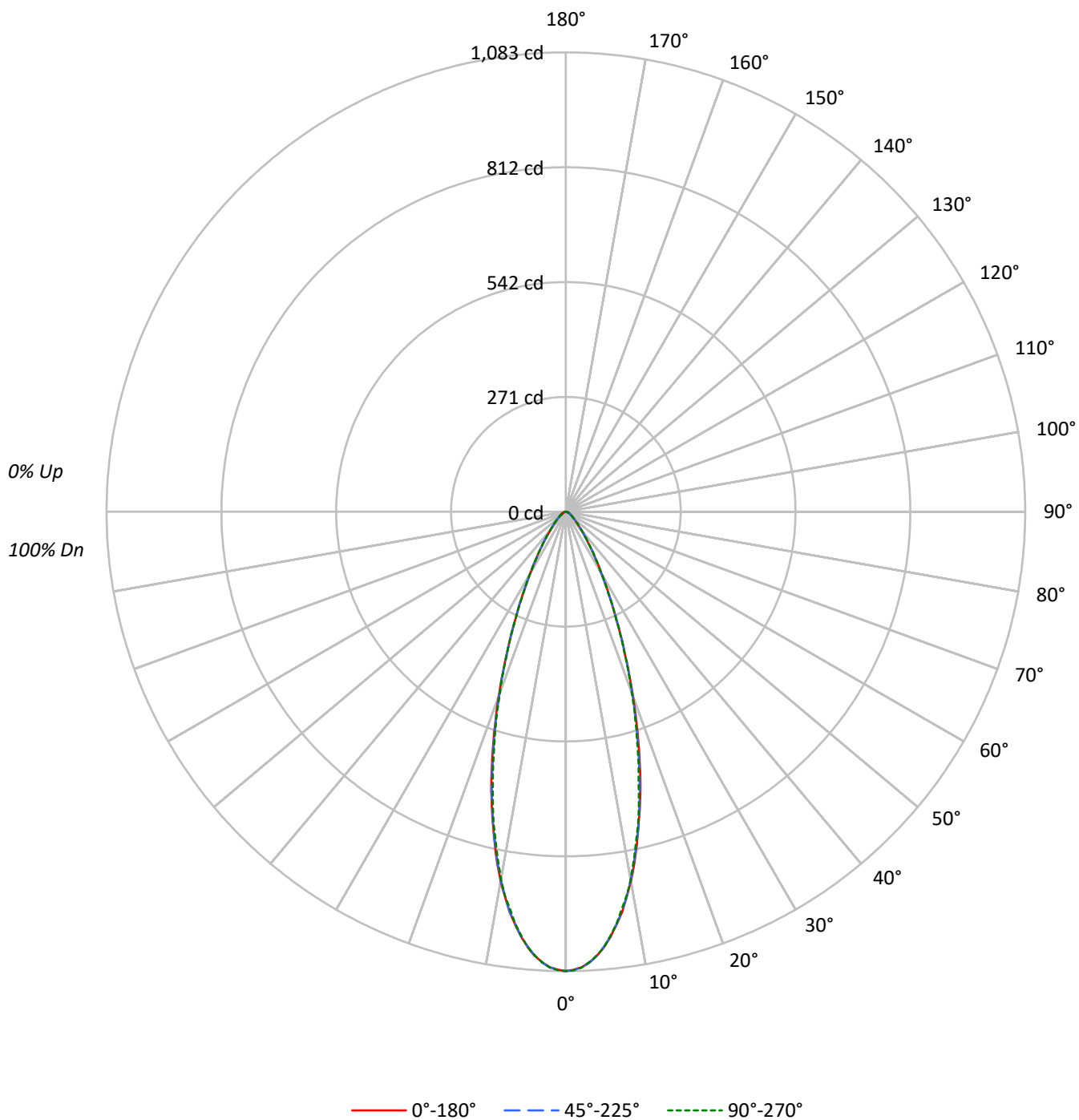
Lumens per Lamp: N/A  
Luminaire Lumens: 534.0 lumens  
Efficiency: N/A  
Efficacy: 59.3 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.58 / 0.6  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 114 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 |  | 101 | 99  | 98  |  | 97  | 96  | 95  | 94  |
| 2   | 108 | 103 | 99  | 96  | 106 | 102 | 98  | 95  | 98  | 95  | 93  |  | 95  | 93  | 91  |  | 93  | 91  | 89  | 87  |
| 3   | 103 | 97  | 92  | 88  | 101 | 95  | 91  | 87  | 93  | 89  | 86  |  | 90  | 87  | 85  |  | 88  | 86  | 83  | 82  |
| 4   | 98  | 91  | 86  | 82  | 96  | 90  | 85  | 81  | 88  | 84  | 80  |  | 86  | 82  | 79  |  | 84  | 81  | 78  | 77  |
| 5   | 94  | 86  | 80  | 76  | 92  | 85  | 80  | 76  | 83  | 79  | 75  |  | 82  | 78  | 75  |  | 80  | 77  | 74  | 73  |
| 6   | 90  | 81  | 76  | 72  | 88  | 81  | 75  | 71  | 79  | 74  | 71  |  | 78  | 74  | 70  |  | 76  | 73  | 70  | 69  |
| 7   | 86  | 77  | 72  | 68  | 85  | 77  | 71  | 67  | 75  | 71  | 67  |  | 74  | 70  | 67  |  | 73  | 69  | 66  | 65  |
| 8   | 82  | 73  | 68  | 64  | 81  | 73  | 68  | 64  | 72  | 67  | 64  |  | 71  | 67  | 63  |  | 70  | 66  | 63  | 62  |
| 9   | 79  | 70  | 65  | 61  | 78  | 70  | 64  | 61  | 69  | 64  | 61  |  | 68  | 63  | 60  |  | 67  | 63  | 60  | 59  |
| 10  | 76  | 67  | 62  | 58  | 75  | 67  | 61  | 58  | 66  | 61  | 58  |  | 65  | 61  | 58  |  | 64  | 60  | 57  | 56  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 186483 | 186483 | 186483 |
| 5°  | 178188 | 177877 | 178188 |
| 10° | 154698 | 154174 | 153964 |
| 15° | 121207 | 120262 | 118372 |
| 20° | 84802  | 84050  | 83500  |
| 25° | 53854  | 54196  | 53854  |
| 30° | 33191  | 33409  | 33191  |
| 35° | 20520  | 20646  | 20646  |
| 40° | 13040  | 13174  | 13174  |
| 45° | 8793   | 8939   | 9085   |
| 50° | 6350   | 6511   | 6511   |
| 55° | 4984   | 4984   | 4984   |
| 60° | 4064   | 4064   | 4064   |
| 65° | 3627   | 3627   | 3627   |
| 70° | 3273   | 3273   | 3273   |
| 75° | 2728   | 2728   | 2728   |
| 80° | 2380   | 2380   | 2380   |
| 85° | 1186   | 1186   | 2371   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 9085 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 93.6   | 17.5      |
| 10°-20°   | 184.2  | 34.5      |
| 20°-30°   | 132.9  | 24.9      |
| 30°-40°   | 64.1   | 12.0      |
| 40°-50°   | 29.6   | 5.5       |
| 50°-60°   | 15.3   | 2.9       |
| 60°-70°   | 8.8    | 1.7       |
| 70°-80°   | 4.5    | 0.8       |
| 80°-90°   | 1.1    | 0.2       |
| 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       |
| <hr/>     |        |           |
| 0°-30°    | 410.7  | 76.9      |
| 0°-40°    | 474.8  | 88.9      |
| 0°-60°    | 519.7  | 97.3      |
| 0°-90°    | 534.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 534.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1083 | 1083  | 1083 | 1083  | 1083 |      |
| 5°  | 1031 | 1033  | 1029 | 1030  | 1031 | 94   |
| 15° | 680  | 679   | 674  | 672   | 664  | 185  |
| 25° | 283  | 284   | 285  | 285   | 283  | 133  |
| 35° | 98   | 98    | 98   | 98    | 98   | 64   |
| 45° | 36   | 37    | 37   | 37    | 37   | 29   |
| 55° | 17   | 17    | 17   | 17    | 17   | 15   |
| 65° | 9    | 9     | 9    | 9     | 9    | 9    |
| 75° | 4    | 4     | 4    | 4     | 4    | 4    |
| 85° | 1    | 1     | 1    | 1     | 1    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1082.8 | 1082.8 | 1082.8 | 1082.8 | 1082.8 |
| 1°    | 1079.8 | 1081.6 | 1081.0 | 1081.6 | 1081.0 |
| 2°    | 1074.5 | 1075.7 | 1074.5 | 1075.1 | 1075.1 |
| 3°    | 1063.3 | 1064.4 | 1064.4 | 1063.9 | 1063.3 |
| 4°    | 1049.7 | 1052.6 | 1049.7 | 1050.2 | 1048.5 |
| 5°    | 1030.7 | 1033.1 | 1028.9 | 1029.5 | 1030.7 |
| 6°    | 1007.6 | 1008.2 | 1007.1 | 1006.5 | 1005.3 |
| 7°    | 981.0  | 983.4  | 979.2  | 979.8  | 978.7  |
| 8°    | 952.6  | 952.0  | 952.0  | 949.7  | 946.1  |
| 9°    | 918.3  | 920.7  | 917.1  | 915.9  | 916.5  |
| 10°   | 884.6  | 884.6  | 881.6  | 878.7  | 880.4  |
| 11°   | 846.1  | 844.9  | 843.2  | 839.0  | 837.8  |
| 12°   | 804.1  | 806.5  | 801.1  | 799.4  | 795.2  |
| 13°   | 760.9  | 764.5  | 762.1  | 755.6  | 756.2  |
| 14°   | 720.7  | 718.3  | 716.5  | 715.4  | 711.2  |
| 15°   | 679.8  | 678.7  | 674.5  | 671.6  | 663.9  |
| 17.5° | 568.0  | 569.2  | 561.5  | 560.3  | 557.4  |
| 20°   | 462.7  | 459.1  | 458.6  | 459.1  | 455.6  |
| 22.5° | 365.1  | 368.6  | 364.5  | 365.1  | 362.7  |
| 25°   | 283.4  | 284.0  | 285.2  | 285.2  | 283.4  |
| 27.5° | 220.1  | 220.1  | 218.9  | 220.1  | 218.3  |
| 30°   | 166.9  | 166.9  | 168.0  | 169.2  | 166.9  |
| 32.5° | 129.0  | 129.0  | 129.0  | 129.6  | 130.2  |
| 35°   | 97.6   | 97.6   | 98.2   | 98.2   | 98.2   |
| 37.5° | 75.1   | 75.7   | 76.3   | 76.3   | 76.3   |
| 40°   | 58.0   | 58.6   | 58.6   | 59.2   | 58.6   |
| 42.5° | 46.2   | 46.2   | 46.2   | 46.7   | 46.7   |
| 45°   | 36.1   | 36.7   | 36.7   | 37.3   | 37.3   |
| 47.5° | 29.6   | 29.6   | 29.6   | 30.2   | 30.2   |
| 50°   | 23.7   | 24.3   | 24.3   | 24.3   | 24.3   |
| 52.5° | 19.5   | 19.5   | 20.1   | 20.1   | 20.1   |
| 55°   | 16.6   | 16.6   | 16.6   | 16.6   | 16.6   |
| 57.5° | 13.6   | 14.2   | 14.2   | 14.2   | 14.2   |
| 60°   | 11.8   | 11.8   | 11.8   | 11.8   | 11.8   |
| 62.5° | 10.1   | 10.1   | 10.1   | 10.1   | 10.1   |
| 65°   | 8.9    | 8.9    | 8.9    | 8.9    | 8.9    |
| 67.5° | 7.1    | 7.7    | 7.7    | 7.7    | 7.7    |
| 70°   | 6.5    | 6.5    | 6.5    | 6.5    | 6.5    |
| 72.5° | 4.7    | 5.3    | 5.3    | 5.3    | 5.3    |
| 75°   | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    |
| 77.5° | 3.6    | 3.0    | 3.0    | 3.0    | 3.6    |
| 80°   | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    |
| 82.5° | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 85°   | 0.6    | 0.6    | 0.6    | 0.6    | 1.2    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.6    | 0.6    |



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**CANDELA DISTRIBUTION (continued):**

|     | 0°  | 22.5° | 45° | 67.5° | 90° |
|-----|-----|-------|-----|-------|-----|
| 90° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |

(END OF REPORT)