

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: P1325957

Luminaire Tested: LDSQA3D09R20W2N902750DE010 3LSQPHR1MB\_2700K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1325957  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R20W2N902750DE010 3LSQPHR1MB\_2700K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 2700K CCT AND, 90CRI ,  
3LSQPHR1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

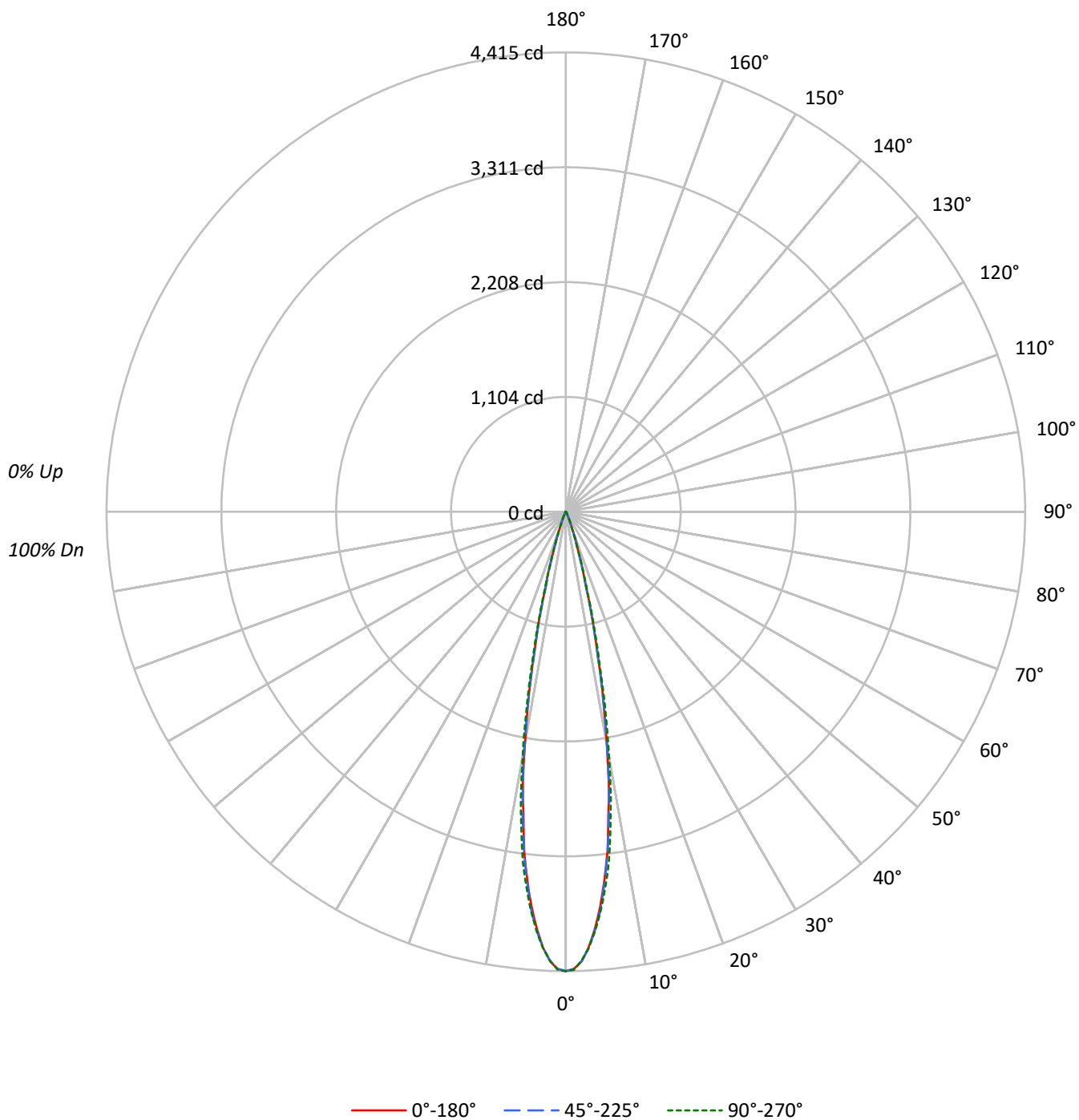
Lumens per Lamp: N/A  
Luminaire Lumens: 593.0 lumens  
Efficiency: N/A  
Efficacy: 65.9 lumens/watt  
Spacing Criteria (0/90/45): 0.35 / 0.36 / 0.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |     |  |  |
| 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   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 103 | 102 | 101 | 100 | 100 | 98  |  |  |
| 2   | 113 | 109 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 101 | 102 | 101 | 99  | 99  | 98  | 97  | 96  |  |  |
| 3   | 110 | 106 | 103 | 100 | 108 | 105 | 102 | 100 | 102 | 100 | 98  | 100 | 98  | 97  | 98  | 96  | 95  | 94  |  |  |
| 4   | 107 | 103 | 99  | 97  | 106 | 102 | 99  | 96  | 100 | 97  | 95  | 98  | 96  | 94  | 96  | 95  | 93  | 92  |  |  |
| 5   | 105 | 100 | 97  | 94  | 104 | 99  | 96  | 94  | 98  | 95  | 93  | 96  | 94  | 92  | 95  | 93  | 92  | 91  |  |  |
| 6   | 103 | 98  | 94  | 92  | 102 | 97  | 94  | 91  | 96  | 93  | 91  | 95  | 92  | 90  | 93  | 91  | 90  | 89  |  |  |
| 7   | 101 | 95  | 92  | 90  | 100 | 95  | 92  | 89  | 94  | 91  | 89  | 93  | 90  | 89  | 92  | 90  | 88  | 87  |  |  |
| 8   | 99  | 93  | 90  | 88  | 98  | 93  | 90  | 88  | 92  | 89  | 87  | 91  | 89  | 87  | 91  | 88  | 87  | 86  |  |  |
| 9   | 97  | 92  | 88  | 86  | 96  | 91  | 88  | 86  | 91  | 88  | 86  | 90  | 87  | 86  | 89  | 87  | 85  | 85  |  |  |
| 10  | 95  | 90  | 87  | 85  | 95  | 90  | 87  | 85  | 89  | 86  | 84  | 88  | 86  | 84  | 88  | 86  | 84  | 83  |  |  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 760380 | 760380 | 760380 |
| 5°  | 656877 | 662997 | 665452 |
| 10° | 395437 | 399127 | 418994 |
| 15° | 136772 | 133563 | 144207 |
| 20° | 35922  | 33796  | 33888  |
| 25° | 7829   | 9444   | 10737  |
| 30° | 3361   | 3361   | 3460   |
| 35° | 1892   | 1661   | 1787   |
| 40° | 832    | 944    | 1079   |
| 45° | 268    | 390    | 390    |
| 50° | 134    | 134    | 134    |
| 55° | 0      | 0      | 0      |
| 60° | 0      | 0      | 0      |
| 65° | 0      | 0      | 0      |
| 70° | 0      | 0      | 0      |
| 75° | 0      | 0      | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle:  $22.5^\circ$

Vertical Angle:  $45^\circ$

Luminance: 390 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 315.8  | 53.3      |
| 10°-20°   | 240.4  | 40.5      |
| 20°-30°   | 29.7   | 5.0       |
| 30°-40°   | 5.6    | 0.9       |
| 40°-50°   | 1.3    | 0.2       |
| 50°-60°   | 0.1    | 0.0       |
| 60°-70°   | 0.0    | 0.0       |
| 70°-80°   | 0.0    | 0.0       |
| 80°-90°   | 0.0    | 0.0       |
| 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°    | 585.9  | 98.8      |
| 0°-40°    | 591.6  | 99.8      |
| 0°-60°    | 593.0  | 100.0     |
| 0°-90°    | 593.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 593.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4415 | 4415  | 4415 | 4415  | 4415 |      |
| 5°  | 3800 | 3797  | 3835 | 3832  | 3849 | 313  |
| 15° | 767  | 740   | 749  | 794   | 809  | 240  |
| 25° | 41   | 47    | 50   | 52    | 56   | 28   |
| 35° | 9    | 9     | 8    | 8     | 8    | 6    |
| 45° | 1    | 2     | 2    | 2     | 2    | 1    |
| 55° | 0    | 0     | 0    | 0     | 0    | 0    |
| 65° | 0    | 0     | 0    | 0     | 0    | 0    |
| 75° | 0    | 0     | 0    | 0     | 0    | 0    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 4415.1 | 4415.1 | 4415.1 | 4415.1 | 4415.1 |
| 1°    | 4394.5 | 4389.2 | 4393.4 | 4384.4 | 4402.9 |
| 2°    | 4324.2 | 4318.9 | 4318.9 | 4313.6 | 4316.3 |
| 3°    | 4193.2 | 4201.6 | 4196.3 | 4185.2 | 4199.5 |
| 4°    | 4014.6 | 4024.1 | 4032.6 | 4033.1 | 4035.2 |
| 5°    | 3799.6 | 3796.9 | 3835.0 | 3832.3 | 3849.2 |
| 6°    | 3554.4 | 3551.3 | 3567.7 | 3595.1 | 3628.9 |
| 7°    | 3285.0 | 3246.4 | 3290.3 | 3345.8 | 3391.2 |
| 8°    | 2936.3 | 2946.4 | 2976.5 | 3042.0 | 3078.4 |
| 9°    | 2640.5 | 2581.8 | 2645.8 | 2723.9 | 2763.6 |
| 10°   | 2261.2 | 2213.6 | 2282.3 | 2364.7 | 2395.9 |
| 12.5° | 1423.3 | 1382.1 | 1404.2 | 1490.9 | 1504.6 |
| 15°   | 767.1  | 739.6  | 749.1  | 794.0  | 808.8  |
| 17.5° | 391.5  | 366.6  | 361.4  | 389.9  | 393.1  |
| 20°   | 196.0  | 190.2  | 184.4  | 187.0  | 184.9  |
| 22.5° | 90.9   | 98.8   | 97.7   | 92.5   | 98.8   |
| 25°   | 41.2   | 47.0   | 49.7   | 51.8   | 56.5   |
| 27.5° | 25.4   | 24.3   | 28.0   | 30.1   | 30.6   |
| 30°   | 16.9   | 16.4   | 16.9   | 17.4   | 17.4   |
| 32.5° | 12.2   | 11.6   | 11.1   | 11.1   | 11.6   |
| 35°   | 9.0    | 9.0    | 7.9    | 8.5    | 8.5    |
| 37.5° | 6.3    | 6.3    | 5.8    | 6.3    | 6.3    |
| 40°   | 3.7    | 4.2    | 4.2    | 4.2    | 4.8    |
| 42.5° | 2.1    | 2.6    | 2.6    | 2.6    | 2.6    |
| 45°   | 1.1    | 1.6    | 1.6    | 1.6    | 1.6    |
| 47.5° | 0.5    | 0.5    | 0.5    | 1.1    | 1.1    |
| 50°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 52.5° | 0.5    | 0.0    | 0.0    | 0.0    | 0.5    |
| 55°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)