

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: P1325961

Luminaire Tested: LDSQA3D09R20W2N902750DE010 3LSQPHR1MB\_5000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1325961  
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\_5000K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 5000K CCT AND, 90CRI ,  
3LSQPHR1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

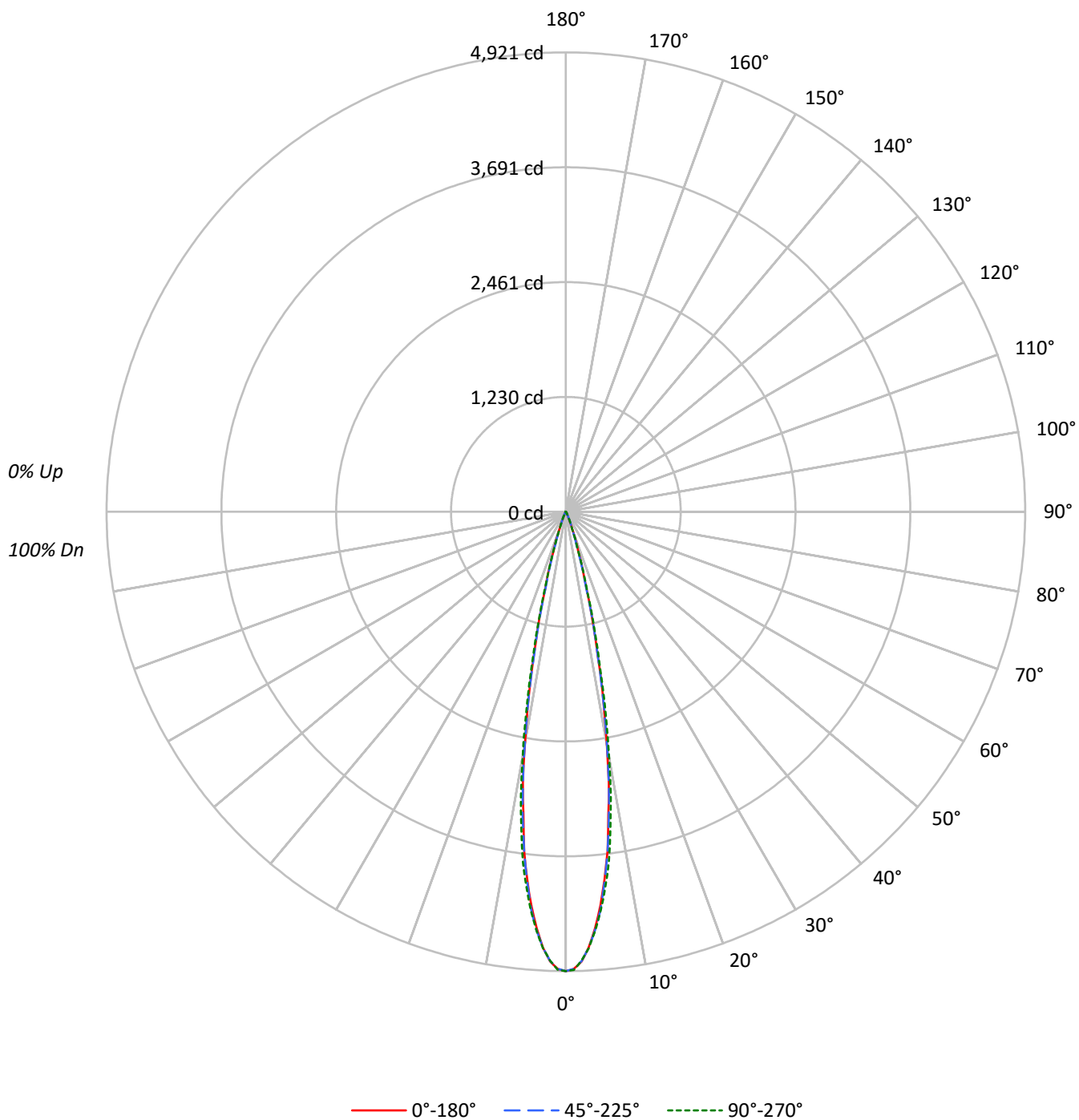
Lumens per Lamp: N/A  
Luminaire Lumens: 661.0 lumens  
Efficiency: N/A  
Efficacy: 73.4 lumens/watt  
Spacing Criteria (0/90/45): 0.35 / 0.36 / 0.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 103 | 102 | 101 | 100 | 100 | 100 | 100 | 98  |
| 2   | 113 | 109 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 101 | 102 | 101 | 99  | 99  | 98  | 97  | 97  | 97  | 96  |
| 3   | 110 | 106 | 103 | 100 | 108 | 105 | 102 | 100 | 102 | 100 | 98  | 100 | 98  | 97  | 98  | 96  | 95  | 95  | 95  | 94  |
| 4   | 107 | 103 | 99  | 97  | 106 | 102 | 99  | 96  | 100 | 97  | 95  | 98  | 96  | 94  | 96  | 95  | 93  | 93  | 93  | 92  |
| 5   | 105 | 100 | 97  | 94  | 104 | 99  | 96  | 94  | 98  | 95  | 93  | 96  | 94  | 92  | 95  | 93  | 92  | 92  | 92  | 91  |
| 6   | 103 | 98  | 94  | 92  | 102 | 97  | 94  | 91  | 96  | 93  | 91  | 95  | 92  | 90  | 93  | 91  | 90  | 90  | 90  | 89  |
| 7   | 101 | 95  | 92  | 90  | 100 | 95  | 92  | 89  | 94  | 91  | 89  | 93  | 90  | 89  | 92  | 90  | 88  | 88  | 88  | 87  |
| 8   | 99  | 93  | 90  | 88  | 98  | 93  | 90  | 88  | 92  | 89  | 87  | 91  | 89  | 87  | 91  | 88  | 87  | 87  | 87  | 86  |
| 9   | 97  | 92  | 88  | 86  | 96  | 91  | 88  | 86  | 91  | 88  | 86  | 90  | 87  | 86  | 89  | 87  | 85  | 85  | 85  | 85  |
| 10  | 95  | 90  | 87  | 85  | 95  | 90  | 87  | 85  | 89  | 86  | 84  | 88  | 86  | 84  | 88  | 86  | 84  | 84  | 84  | 83  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 847559 | 847559 | 847559 |
| 5°  | 732201 | 739012 | 741761 |
| 10° | 440766 | 444893 | 467033 |
| 15° | 152463 | 148879 | 160753 |
| 20° | 40046  | 37663  | 37773  |
| 25° | 8722   | 10527  | 11972  |
| 30° | 3739   | 3739   | 3858   |
| 35° | 2102   | 1850   | 1976   |
| 40° | 922    | 1057   | 1192   |
| 45° | 292    | 438    | 438    |
| 50° | 161    | 161    | 161    |
| 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°

Vertical Angle: 45°

Luminance: 438 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 352.0  | 53.3      |
| 10°-20°   | 268.0  | 40.5      |
| 20°-30°   | 33.1   | 5.0       |
| 30°-40°   | 6.3    | 0.9       |
| 40°-50°   | 1.5    | 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°    | 653.1  | 98.8      |
| 0°-40°    | 659.4  | 99.8      |
| 0°-60°    | 661.0  | 100.0     |
| 0°-90°    | 661.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 661.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4921 | 4921  | 4921 | 4921  | 4921 |      |
| 5°  | 4235 | 4232  | 4275 | 4272  | 4291 | 349  |
| 15° | 855  | 824   | 835  | 885   | 902  | 268  |
| 25° | 46   | 52    | 55   | 58    | 63   | 32   |
| 35° | 10   | 10    | 9    | 9     | 9    | 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°    | 4921.3 | 4921.3 | 4921.3 | 4921.3 | 4921.3 |
| 1°    | 4898.4 | 4892.5 | 4897.2 | 4887.2 | 4907.8 |
| 2°    | 4820.1 | 4814.2 | 4814.2 | 4808.3 | 4811.2 |
| 3°    | 4674.0 | 4683.4 | 4677.5 | 4665.2 | 4681.1 |
| 4°    | 4475.0 | 4485.6 | 4495.0 | 4495.6 | 4497.9 |
| 5°    | 4235.3 | 4232.3 | 4274.7 | 4271.8 | 4290.6 |
| 6°    | 3962.0 | 3958.5 | 3976.8 | 4007.4 | 4045.1 |
| 7°    | 3661.7 | 3618.7 | 3667.6 | 3729.4 | 3780.1 |
| 8°    | 3273.0 | 3284.2 | 3317.8 | 3390.8 | 3431.5 |
| 9°    | 2943.3 | 2877.9 | 2949.2 | 3036.3 | 3080.5 |
| 10°   | 2520.4 | 2467.4 | 2544.0 | 2635.9 | 2670.6 |
| 12.5° | 1586.5 | 1540.5 | 1565.3 | 1661.8 | 1677.2 |
| 15°   | 855.1  | 824.4  | 835.0  | 885.1  | 901.6  |
| 17.5° | 436.4  | 408.7  | 402.8  | 434.6  | 438.1  |
| 20°   | 218.5  | 212.0  | 205.5  | 208.5  | 206.1  |
| 22.5° | 101.3  | 110.1  | 108.9  | 103.1  | 110.1  |
| 25°   | 45.9   | 52.4   | 55.4   | 57.7   | 63.0   |
| 27.5° | 28.3   | 27.1   | 31.2   | 33.6   | 34.2   |
| 30°   | 18.8   | 18.3   | 18.8   | 19.4   | 19.4   |
| 32.5° | 13.5   | 13.0   | 12.4   | 12.4   | 13.0   |
| 35°   | 10.0   | 10.0   | 8.8    | 9.4    | 9.4    |
| 37.5° | 7.1    | 7.1    | 6.5    | 7.1    | 7.1    |
| 40°   | 4.1    | 4.7    | 4.7    | 4.7    | 5.3    |
| 42.5° | 2.4    | 2.9    | 2.9    | 2.9    | 2.9    |
| 45°   | 1.2    | 1.8    | 1.8    | 1.8    | 1.8    |
| 47.5° | 0.6    | 0.6    | 0.6    | 1.2    | 1.2    |
| 50°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 52.5° | 0.6    | 0.0    | 0.0    | 0.0    | 0.6    |
| 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)