

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: P1325991

Luminaire Tested: LDSQA3D09R20W2N902750DE010 3LSQPHRLD1MW\_5000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1325991  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R20W2N902750DE010 3LSQPHRLD1MW\_5000K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 5000K CCT AND, 90CRI ,  
3LSQPHRLD1MW TRIM  
Light Source: -  
Ballast/Driver: -

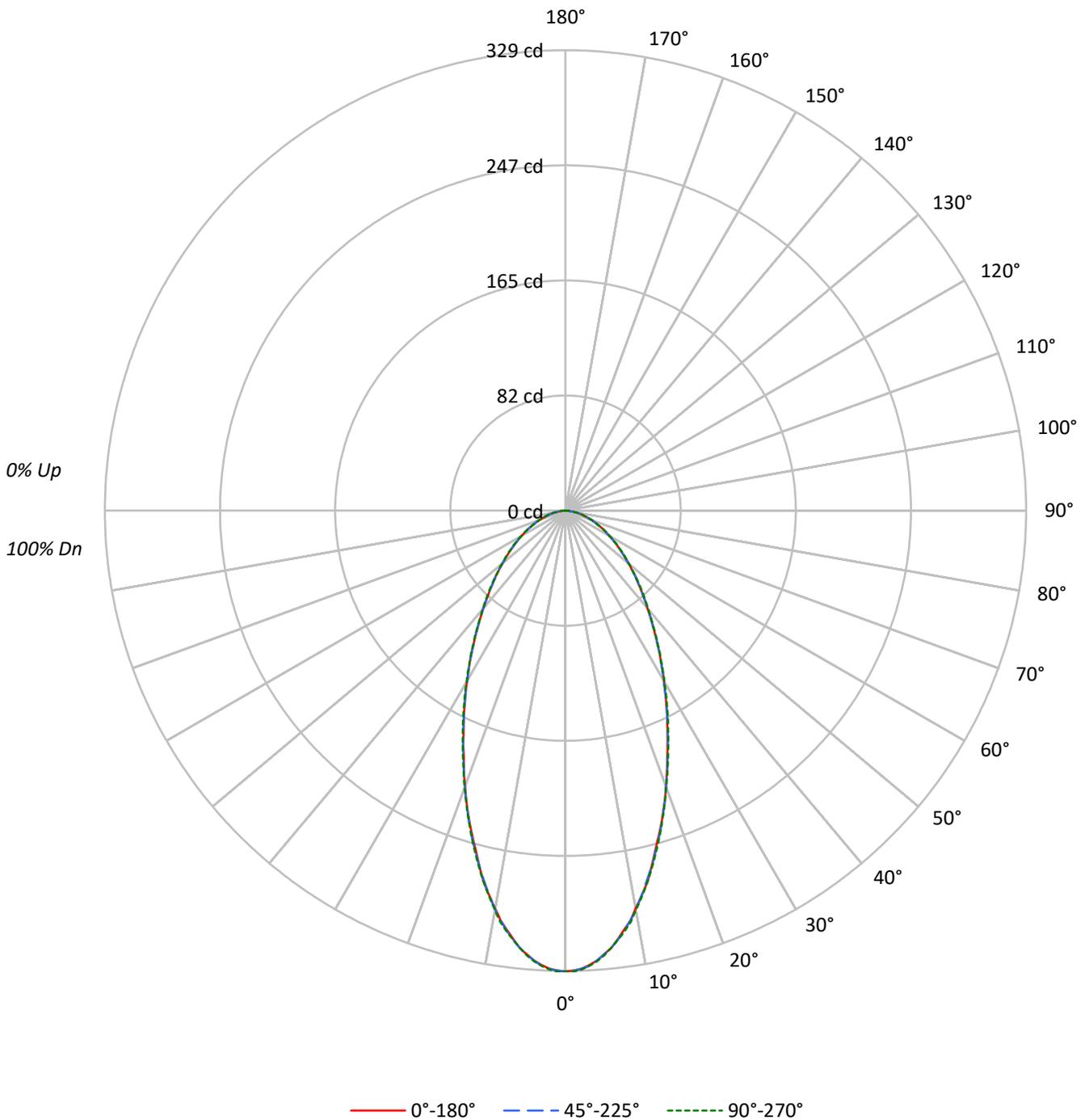
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 394.0 lumens  
Efficiency: N/A  
Efficacy: 43.8 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.86  
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  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 111 | 107 | 104 | 100 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 90  | 90  | 90  | 88  |
| 2   | 103 | 96  | 91  | 86  | 100 | 94  | 89  | 85  | 91  | 87  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 79  | 79  | 79  | 77  |
| 3   | 96  | 87  | 80  | 75  | 93  | 85  | 79  | 74  | 82  | 77  | 73  | 80  | 75  | 72  | 77  | 74  | 70  | 70  | 70  | 70  | 68  |
| 4   | 89  | 79  | 71  | 66  | 87  | 78  | 71  | 65  | 75  | 69  | 65  | 73  | 68  | 64  | 71  | 67  | 63  | 63  | 63  | 63  | 61  |
| 5   | 83  | 72  | 64  | 59  | 81  | 71  | 64  | 58  | 69  | 63  | 58  | 67  | 62  | 57  | 65  | 61  | 57  | 57  | 57  | 57  | 55  |
| 6   | 78  | 66  | 59  | 53  | 76  | 65  | 58  | 53  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 56  | 52  | 52  | 52  | 52  | 50  |
| 7   | 73  | 61  | 54  | 48  | 71  | 60  | 53  | 48  | 59  | 53  | 48  | 58  | 52  | 48  | 56  | 51  | 47  | 47  | 47  | 47  | 45  |
| 8   | 69  | 57  | 49  | 44  | 67  | 56  | 49  | 44  | 55  | 49  | 44  | 54  | 48  | 44  | 53  | 47  | 43  | 43  | 43  | 43  | 42  |
| 9   | 65  | 53  | 46  | 41  | 63  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 40  | 49  | 44  | 40  | 40  | 40  | 40  | 39  |
| 10  | 61  | 50  | 43  | 38  | 60  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 46  | 41  | 37  | 37  | 37  | 37  | 36  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 56730 | 56730 | 56730 |
| 5°  | 55011 | 55011 | 55114 |
| 10° | 50505 | 50610 | 50715 |
| 15° | 44468 | 44681 | 44788 |
| 20° | 38488 | 38488 | 38598 |
| 25° | 32742 | 32742 | 32970 |
| 30° | 27960 | 27841 | 28080 |
| 35° | 23863 | 23863 | 23989 |
| 40° | 20504 | 20504 | 20639 |
| 45° | 17902 | 17902 | 18048 |
| 50° | 15754 | 15754 | 15754 |
| 55° | 13962 | 13962 | 14142 |
| 60° | 12572 | 12572 | 12572 |
| 65° | 11247 | 11247 | 11247 |
| 70° | 10071 | 10071 | 10071 |
| 75° | 8983  | 8584  | 8983  |
| 80° | 7538  | 7538  | 7538  |
| 85° | 4742  | 4742  | 5730  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 18048 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 29.5   | 7.5       |
| 10°-20°   | 69.7   | 17.7      |
| 20°-30°   | 79.4   | 20.2      |
| 30°-40°   | 71.3   | 18.1      |
| 40°-50°   | 57.1   | 14.5      |
| 50°-60°   | 42.0   | 10.7      |
| 60°-70°   | 27.4   | 7.0       |
| 70°-80°   | 14.2   | 3.6       |
| 80°-90°   | 3.3    | 0.8       |
| 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°    | 178.6  | 45.3      |
| 0°-40°    | 249.9  | 63.4      |
| 0°-60°    | 349.1  | 88.6      |
| 0°-90°    | 394.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 394.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 329 | 329   | 329 | 329   | 329 |      |
| 5°  | 318 | 318   | 318 | 318   | 319 | 29   |
| 15° | 249 | 249   | 251 | 251   | 251 | 70   |
| 25° | 172 | 172   | 172 | 173   | 174 | 79   |
| 35° | 114 | 114   | 114 | 114   | 114 | 71   |
| 45° | 74  | 74    | 74  | 74    | 74  | 57   |
| 55° | 46  | 46    | 46  | 46    | 47  | 42   |
| 65° | 28  | 27    | 28  | 28    | 28  | 27   |
| 75° | 14  | 13    | 13  | 14    | 14  | 14   |
| 85° | 2   | 2     | 2   | 3     | 3   | 3    |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 329.4 | 329.4 | 329.4 | 329.4 | 329.4 |
| 1°    | 328.8 | 328.2 | 328.8 | 328.8 | 329.4 |
| 2°    | 327.6 | 327.6 | 327.6 | 327.0 | 328.2 |
| 3°    | 325.3 | 325.3 | 325.9 | 325.3 | 325.9 |
| 4°    | 322.3 | 322.3 | 322.3 | 321.8 | 322.9 |
| 5°    | 318.2 | 318.2 | 318.2 | 318.2 | 318.8 |
| 6°    | 314.1 | 313.5 | 314.1 | 313.5 | 314.1 |
| 7°    | 308.2 | 308.2 | 308.8 | 308.2 | 308.8 |
| 8°    | 302.3 | 301.8 | 302.9 | 302.3 | 303.5 |
| 9°    | 296.5 | 295.9 | 296.5 | 295.9 | 297.6 |
| 10°   | 288.8 | 289.4 | 289.4 | 289.4 | 290.0 |
| 12.5° | 271.2 | 270.0 | 270.0 | 270.0 | 271.2 |
| 15°   | 249.4 | 249.4 | 250.6 | 250.6 | 251.2 |
| 17.5° | 230.0 | 229.4 | 230.6 | 230.6 | 230.6 |
| 20°   | 210.0 | 209.4 | 210.0 | 210.0 | 210.6 |
| 22.5° | 190.0 | 190.6 | 190.6 | 190.6 | 191.2 |
| 25°   | 172.3 | 172.3 | 172.3 | 172.9 | 173.5 |
| 27.5° | 155.9 | 155.3 | 155.9 | 156.5 | 157.1 |
| 30°   | 140.6 | 140.0 | 140.0 | 140.6 | 141.2 |
| 32.5° | 126.5 | 125.9 | 126.5 | 126.5 | 127.1 |
| 35°   | 113.5 | 113.5 | 113.5 | 113.5 | 114.1 |
| 37.5° | 101.8 | 101.8 | 101.8 | 102.3 | 102.3 |
| 40°   | 91.2  | 91.2  | 91.2  | 91.8  | 91.8  |
| 42.5° | 81.8  | 81.8  | 81.8  | 82.4  | 82.9  |
| 45°   | 73.5  | 73.5  | 73.5  | 73.5  | 74.1  |
| 47.5° | 65.9  | 65.9  | 65.9  | 66.5  | 66.5  |
| 50°   | 58.8  | 58.2  | 58.8  | 59.4  | 58.8  |
| 52.5° | 52.4  | 52.4  | 52.4  | 52.4  | 52.9  |
| 55°   | 46.5  | 46.5  | 46.5  | 46.5  | 47.1  |
| 57.5° | 41.2  | 41.2  | 41.2  | 41.8  | 41.8  |
| 60°   | 36.5  | 36.5  | 36.5  | 36.5  | 36.5  |
| 62.5° | 31.8  | 31.8  | 31.8  | 31.8  | 31.8  |
| 65°   | 27.6  | 27.1  | 27.6  | 27.6  | 27.6  |
| 67.5° | 23.5  | 23.5  | 23.5  | 23.5  | 23.5  |
| 70°   | 20.0  | 20.0  | 20.0  | 20.0  | 20.0  |
| 72.5° | 16.5  | 16.5  | 16.5  | 16.5  | 16.5  |
| 75°   | 13.5  | 12.9  | 12.9  | 13.5  | 13.5  |
| 77.5° | 10.6  | 10.0  | 10.6  | 10.6  | 10.6  |
| 80°   | 7.6   | 7.6   | 7.6   | 7.6   | 7.6   |
| 82.5° | 4.7   | 4.7   | 4.7   | 5.3   | 5.3   |
| 85°   | 2.4   | 2.4   | 2.4   | 2.9   | 2.9   |
| 87.5° | 0.6   | 0.6   | 0.6   | 1.2   | 1.2   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)