

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: P1326036

Luminaire Tested: LDSQA3D09R20W2N902765DE010 3LSQCDR1MW\_4000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1326036  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-34)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R20W2N902765DE010 3LSQCDR1MW\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 4000K CCT AND, 90CRI ,  
3LSQCDR1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

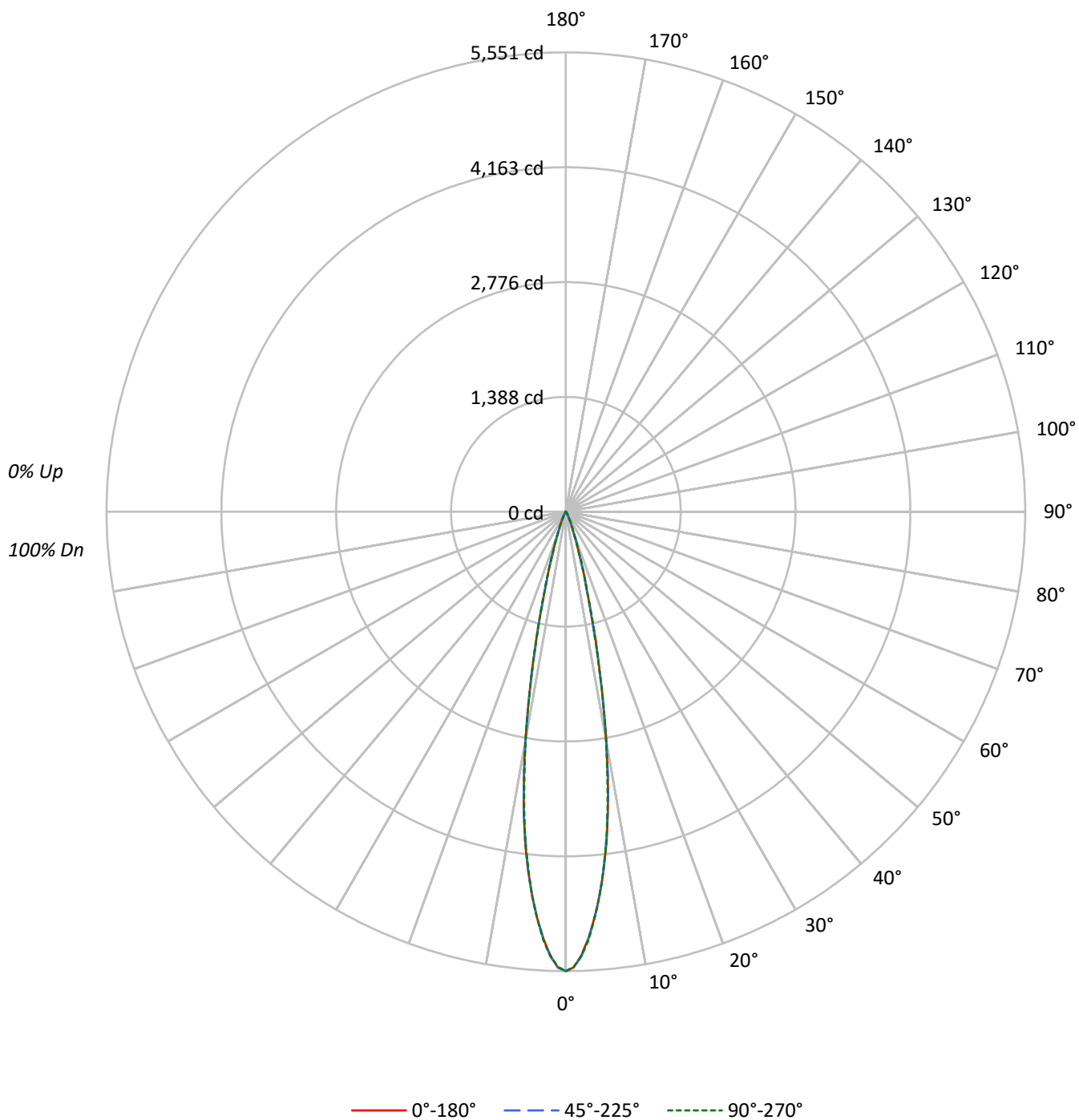
Lumens per Lamp: N/A  
Luminaire Lumens: 765.0 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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 | 100 | 100 | 100 |
| 1   | 116 | 114 | 112 | 110 | 113 | 111 | 110 | 109 | 108 | 106 | 105 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 98  | 98  |
| 2   | 112 | 109 | 106 | 104 | 110 | 107 | 105 | 103 | 104 | 102 | 101 | 102 | 100 | 99  | 99  | 98  | 97  | 95  | 95  | 95  |
| 3   | 109 | 105 | 102 | 100 | 108 | 104 | 101 | 99  | 102 | 99  | 97  | 99  | 97  | 96  | 97  | 96  | 94  | 93  | 93  | 93  |
| 4   | 107 | 102 | 98  | 96  | 105 | 101 | 98  | 95  | 99  | 96  | 94  | 97  | 95  | 93  | 96  | 94  | 92  | 91  | 91  | 91  |
| 5   | 104 | 99  | 95  | 93  | 103 | 98  | 95  | 92  | 97  | 94  | 92  | 95  | 93  | 91  | 94  | 92  | 90  | 89  | 89  | 89  |
| 6   | 102 | 96  | 93  | 90  | 101 | 96  | 92  | 90  | 94  | 92  | 89  | 93  | 91  | 89  | 92  | 90  | 88  | 87  | 87  | 87  |
| 7   | 100 | 94  | 90  | 88  | 99  | 94  | 90  | 88  | 92  | 90  | 87  | 91  | 89  | 87  | 91  | 88  | 87  | 86  | 86  | 86  |
| 8   | 97  | 92  | 88  | 86  | 97  | 91  | 88  | 86  | 91  | 88  | 86  | 90  | 87  | 85  | 89  | 87  | 85  | 84  | 84  | 84  |
| 9   | 96  | 90  | 87  | 84  | 95  | 90  | 86  | 84  | 89  | 86  | 84  | 88  | 85  | 84  | 87  | 85  | 83  | 83  | 83  | 83  |
| 10  | 94  | 88  | 85  | 83  | 93  | 88  | 85  | 82  | 87  | 84  | 82  | 87  | 84  | 82  | 86  | 84  | 82  | 81  | 81  | 81  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 956060 | 956060 | 956060 |
| 5°  | 805813 | 806124 | 805710 |
| 10° | 491044 | 488771 | 489907 |
| 15° | 172967 | 173698 | 179083 |
| 20° | 54341  | 55862  | 54671  |
| 25° | 20352  | 22271  | 20922  |
| 30° | 7895   | 11176  | 8233   |
| 35° | 2985   | 4983   | 3238   |
| 40° | 1596   | 2136   | 1596   |
| 45° | 585    | 999    | 731    |
| 50° | 322    | 482    | 322    |
| 55° | 360    | 360    | 360    |
| 60° | 207    | 207    | 207    |
| 65° | 245    | 245    | 245    |
| 70° | 302    | 302    | 302    |
| 75° | 0      | 0      | 399    |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 999 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 385.4  | 50.4      |
| 10°-20°   | 302.2  | 39.5      |
| 20°-30°   | 59.3   | 7.8       |
| 30°-40°   | 13.3   | 1.7       |
| 40°-50°   | 3.0    | 0.4       |
| 50°-60°   | 1.0    | 0.1       |
| 60°-70°   | 0.6    | 0.1       |
| 70°-80°   | 0.3    | 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°    | 746.9  | 97.6      |
| 0°-40°    | 760.2  | 99.4      |
| 0°-60°    | 764.2  | 99.9      |
| 0°-90°    | 765.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 765.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5551 | 5551  | 5551 | 5551  | 5551 |      |
| 5°  | 4661 | 4665  | 4663 | 4679  | 4660 | 386  |
| 15° | 970  | 974   | 974  | 996   | 1004 | 302  |
| 25° | 107  | 114   | 117  | 115   | 110  | 56   |
| 35° | 14   | 17    | 24   | 17    | 15   | 11   |
| 45° | 2    | 4     | 4    | 4     | 3    | 2    |
| 55° | 1    | 1     | 1    | 1     | 1    | 1    |
| 65° | 1    | 1     | 1    | 1     | 1    | 1    |
| 75° | 0    | 0     | 0    | 0     | 1    | 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°    | 5551.3 | 5551.3 | 5551.3 | 5551.3 | 5551.3 |
| 1°    | 5506.3 | 5494.5 | 5508.1 | 5497.4 | 5499.8 |
| 2°    | 5363.7 | 5357.1 | 5374.9 | 5363.7 | 5369.6 |
| 3°    | 5165.4 | 5157.1 | 5170.1 | 5170.7 | 5187.3 |
| 4°    | 4928.6 | 4912.6 | 4932.2 | 4932.8 | 4935.7 |
| 5°    | 4661.1 | 4665.2 | 4662.9 | 4678.8 | 4660.5 |
| 6°    | 4360.4 | 4374.0 | 4356.3 | 4365.1 | 4339.7 |
| 7°    | 4024.2 | 4007.1 | 3998.2 | 4001.1 | 4018.9 |
| 8°    | 3653.1 | 3641.3 | 3654.3 | 3635.9 | 3623.5 |
| 9°    | 3240.6 | 3219.9 | 3234.1 | 3216.3 | 3198.5 |
| 10°   | 2807.9 | 2798.4 | 2794.9 | 2774.8 | 2801.4 |
| 11°   | 2374.0 | 2345.6 | 2359.8 | 2349.8 | 2378.8 |
| 12°   | 1968.0 | 1970.4 | 1942.6 | 1951.4 | 1955.0 |
| 13°   | 1601.6 | 1563.8 | 1568.5 | 1592.8 | 1596.9 |
| 14°   | 1242.4 | 1247.7 | 1249.5 | 1266.6 | 1276.7 |
| 15°   | 970.1  | 974.2  | 974.2  | 995.6  | 1004.4 |
| 17.5° | 520.3  | 520.3  | 531.5  | 533.9  | 535.1  |
| 20°   | 296.5  | 298.3  | 304.8  | 304.2  | 298.3  |
| 22.5° | 177.6  | 181.1  | 184.7  | 181.1  | 177.6  |
| 25°   | 107.1  | 114.2  | 117.2  | 115.4  | 110.1  |
| 27.5° | 63.9   | 71.6   | 79.9   | 73.4   | 63.3   |
| 30°   | 39.7   | 43.8   | 56.2   | 45.0   | 41.4   |
| 32.5° | 21.9   | 28.4   | 38.5   | 29.6   | 22.5   |
| 35°   | 14.2   | 17.2   | 23.7   | 17.2   | 15.4   |
| 37.5° | 10.1   | 11.8   | 14.8   | 12.4   | 10.7   |
| 40°   | 7.1    | 8.3    | 9.5    | 8.9    | 7.1    |
| 42.5° | 4.7    | 5.9    | 6.5    | 5.9    | 4.7    |
| 45°   | 2.4    | 3.6    | 4.1    | 3.6    | 3.0    |
| 47.5° | 1.2    | 1.8    | 3.0    | 1.8    | 1.2    |
| 50°   | 1.2    | 1.2    | 1.8    | 1.2    | 1.2    |
| 52.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 55°   | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 57.5° | 1.2    | 1.2    | 0.6    | 1.2    | 0.6    |
| 60°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 62.5° | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 65°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 67.5° | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 70°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 72.5° | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    |
| 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    |



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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)