

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: P1326064

Luminaire Tested: LDSQA3D09R20W2N902765DE010 3LSQPHRL1MMS\_3000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1326064  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R20W2N902765DE010 3LSQPHRL1MMS\_3000K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,  
3LSQPHRL1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

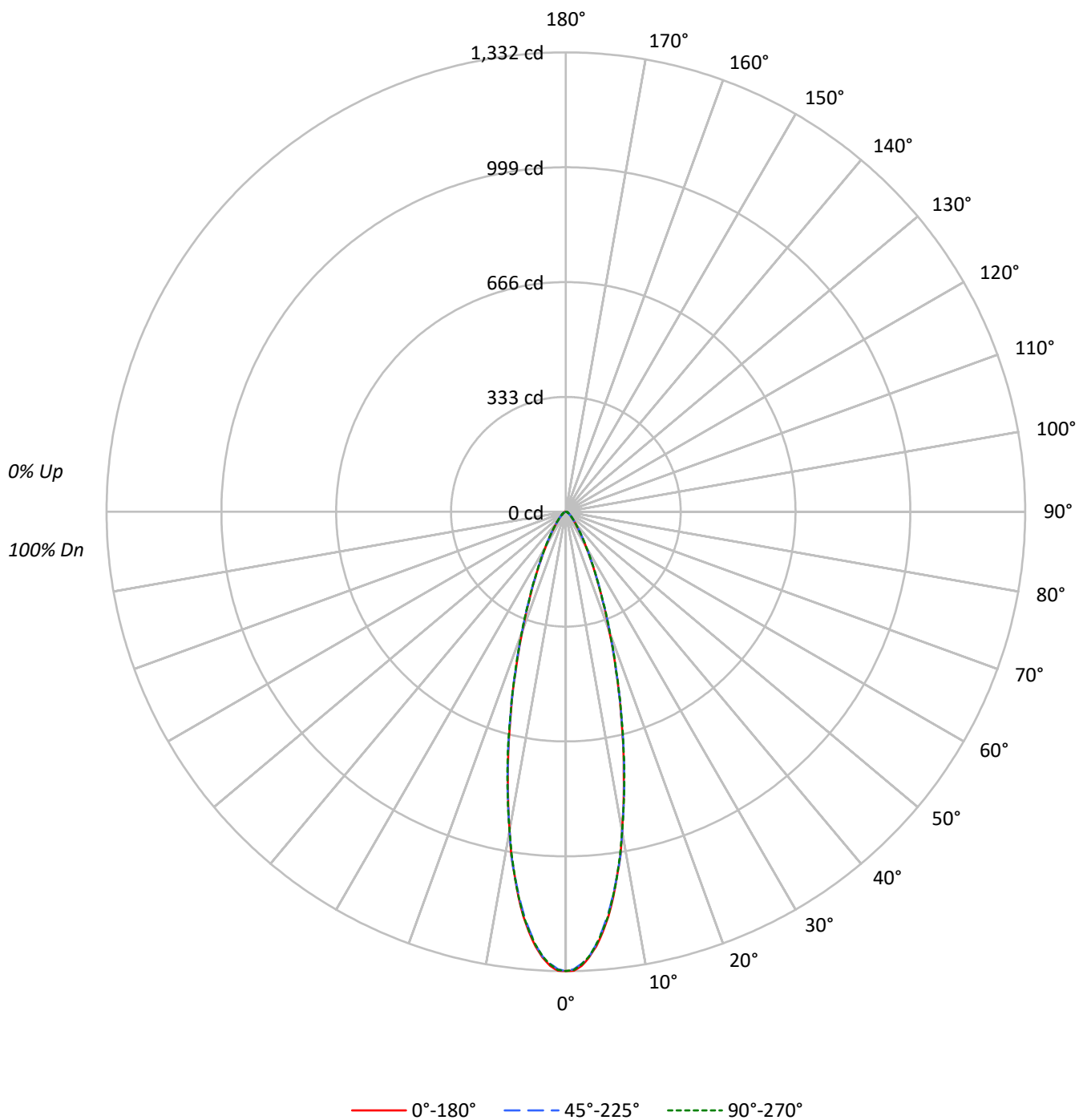
Lumens per Lamp: N/A  
Luminaire Lumens: 468.0 lumens  
Efficiency: N/A  
Efficacy: 52.0 lumens/watt  
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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   | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 96  | 96  | 94  |
| 2   | 109 | 104 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 97  | 94  | 96  | 94  | 92  | 94  | 92  | 90  | 90  | 90  | 89  |
| 3   | 104 | 98  | 94  | 90  | 102 | 97  | 93  | 89  | 94  | 91  | 88  | 92  | 89  | 87  | 90  | 87  | 85  | 85  | 85  | 84  |
| 4   | 100 | 93  | 88  | 84  | 98  | 92  | 87  | 84  | 90  | 86  | 83  | 88  | 84  | 82  | 86  | 83  | 81  | 81  | 81  | 79  |
| 5   | 96  | 88  | 83  | 79  | 94  | 87  | 82  | 79  | 86  | 81  | 78  | 84  | 80  | 77  | 82  | 79  | 77  | 77  | 77  | 75  |
| 6   | 92  | 84  | 79  | 75  | 90  | 83  | 78  | 75  | 82  | 77  | 74  | 80  | 77  | 74  | 79  | 76  | 73  | 73  | 73  | 72  |
| 7   | 88  | 80  | 75  | 71  | 87  | 80  | 75  | 71  | 78  | 74  | 71  | 77  | 73  | 70  | 76  | 73  | 70  | 70  | 70  | 69  |
| 8   | 85  | 77  | 72  | 68  | 84  | 76  | 71  | 68  | 75  | 71  | 68  | 74  | 70  | 67  | 73  | 70  | 67  | 67  | 67  | 66  |
| 9   | 82  | 74  | 69  | 65  | 81  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 67  | 65  | 71  | 67  | 64  | 64  | 64  | 63  |
| 10  | 79  | 71  | 66  | 62  | 78  | 70  | 66  | 62  | 70  | 65  | 62  | 69  | 65  | 62  | 68  | 65  | 62  | 62  | 62  | 61  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 229349 | 229349 | 229349 |
| 5°  | 211588 | 210378 | 211087 |
| 10° | 164194 | 164404 | 164404 |
| 15° | 110973 | 111508 | 111508 |
| 20° | 67409  | 68252  | 68582  |
| 25° | 39545  | 40096  | 39982  |
| 30° | 23068  | 23526  | 23645  |
| 35° | 14086  | 14465  | 14465  |
| 40° | 9173   | 9308   | 9442   |
| 45° | 6381   | 6527   | 6674   |
| 50° | 4689   | 4850   | 4850   |
| 55° | 3663   | 3843   | 3843   |
| 60° | 3203   | 3203   | 3410   |
| 65° | 2853   | 2853   | 3097   |
| 70° | 2618   | 2618   | 2618   |
| 75° | 2329   | 2329   | 2329   |
| 80° | 1686   | 1686   | 2281   |
| 85° | 1186   | 1186   | 2371   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6674 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 107.4  | 22.9      |
| 10°-20°   | 172.0  | 36.7      |
| 20°-30°   | 99.6   | 21.3      |
| 30°-40°   | 44.7   | 9.5       |
| 40°-50°   | 21.2   | 4.5       |
| 50°-60°   | 11.6   | 2.5       |
| 60°-70°   | 7.0    | 1.5       |
| 70°-80°   | 3.8    | 0.8       |
| 80°-90°   | 0.8    | 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°    | 378.9  | 81.0      |
| 0°-40°    | 423.6  | 90.5      |
| 0°-60°    | 456.4  | 97.5      |
| 0°-90°    | 468.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 468.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1332 | 1332  | 1332 | 1332  | 1332 |      |
| 5°  | 1224 | 1220  | 1217 | 1219  | 1221 | 108  |
| 15° | 622  | 622   | 625  | 622   | 625  | 171  |
| 25° | 208  | 208   | 211  | 209   | 210  | 99   |
| 35° | 67   | 68    | 69   | 69    | 69   | 44   |
| 45° | 26   | 26    | 27   | 27    | 27   | 21   |
| 55° | 12   | 12    | 13   | 13    | 13   | 11   |
| 65° | 7    | 7     | 7    | 7     | 8    | 7    |
| 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°    | 1331.7 | 1331.7 | 1331.7 | 1331.7 | 1331.7 |
| 1°    | 1331.1 | 1327.6 | 1326.5 | 1325.3 | 1328.8 |
| 2°    | 1317.7 | 1313.7 | 1311.3 | 1312.5 | 1313.1 |
| 3°    | 1293.8 | 1291.5 | 1291.5 | 1289.8 | 1290.9 |
| 4°    | 1263.0 | 1258.3 | 1258.3 | 1258.9 | 1258.9 |
| 5°    | 1223.9 | 1219.8 | 1216.9 | 1219.2 | 1221.0 |
| 6°    | 1180.2 | 1175.0 | 1172.6 | 1173.2 | 1177.3 |
| 7°    | 1126.6 | 1119.6 | 1120.7 | 1123.7 | 1123.7 |
| 8°    | 1066.0 | 1065.4 | 1066.5 | 1065.4 | 1066.5 |
| 9°    | 1010.0 | 1001.9 | 1008.8 | 1003.0 | 1005.9 |
| 10°   | 938.9  | 938.3  | 940.1  | 941.8  | 940.1  |
| 12.5° | 776.9  | 779.8  | 781.0  | 778.6  | 783.9  |
| 15°   | 622.4  | 622.4  | 625.4  | 622.4  | 625.4  |
| 17.5° | 484.3  | 483.7  | 486.1  | 483.7  | 487.2  |
| 20°   | 367.8  | 371.8  | 372.4  | 372.4  | 374.2  |
| 22.5° | 277.4  | 277.4  | 279.8  | 280.3  | 279.2  |
| 25°   | 208.1  | 208.1  | 211.0  | 209.2  | 210.4  |
| 27.5° | 153.9  | 155.0  | 157.4  | 158.5  | 158.5  |
| 30°   | 116.0  | 116.6  | 118.3  | 118.9  | 118.9  |
| 32.5° | 87.4   | 88.6   | 89.8   | 90.3   | 90.9   |
| 35°   | 67.0   | 67.6   | 68.8   | 69.4   | 68.8   |
| 37.5° | 51.3   | 51.9   | 53.0   | 53.6   | 53.6   |
| 40°   | 40.8   | 40.8   | 41.4   | 42.0   | 42.0   |
| 42.5° | 32.1   | 32.6   | 32.6   | 33.2   | 33.2   |
| 45°   | 26.2   | 26.2   | 26.8   | 26.8   | 27.4   |
| 47.5° | 21.0   | 21.0   | 21.6   | 22.1   | 22.1   |
| 50°   | 17.5   | 17.5   | 18.1   | 18.1   | 18.1   |
| 52.5° | 14.6   | 14.6   | 15.2   | 15.2   | 15.2   |
| 55°   | 12.2   | 12.2   | 12.8   | 12.8   | 12.8   |
| 57.5° | 10.5   | 10.5   | 11.1   | 11.1   | 11.1   |
| 60°   | 9.3    | 9.3    | 9.3    | 9.3    | 9.9    |
| 62.5° | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    |
| 65°   | 7.0    | 7.0    | 7.0    | 7.0    | 7.6    |
| 67.5° | 5.8    | 5.8    | 5.8    | 5.8    | 6.4    |
| 70°   | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    |
| 72.5° | 4.1    | 4.1    | 4.1    | 4.7    | 4.7    |
| 75°   | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    |
| 77.5° | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 80°   | 1.7    | 1.7    | 1.7    | 2.3    | 2.3    |
| 82.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 85°   | 0.6    | 0.6    | 0.6    | 0.6    | 1.2    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.6    | 0.6    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)