

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: P1325979

Luminaire Tested: LDSQA3D09R20W2N902750DE010 3LSQPHRL1MMS\_3500K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1325979  
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: LDSQA3D09R20W2N902750DE010 3LSQPHRL1MMS\_3500K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 3500K CCT AND, 90CRI ,  
3LSQPHRL1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

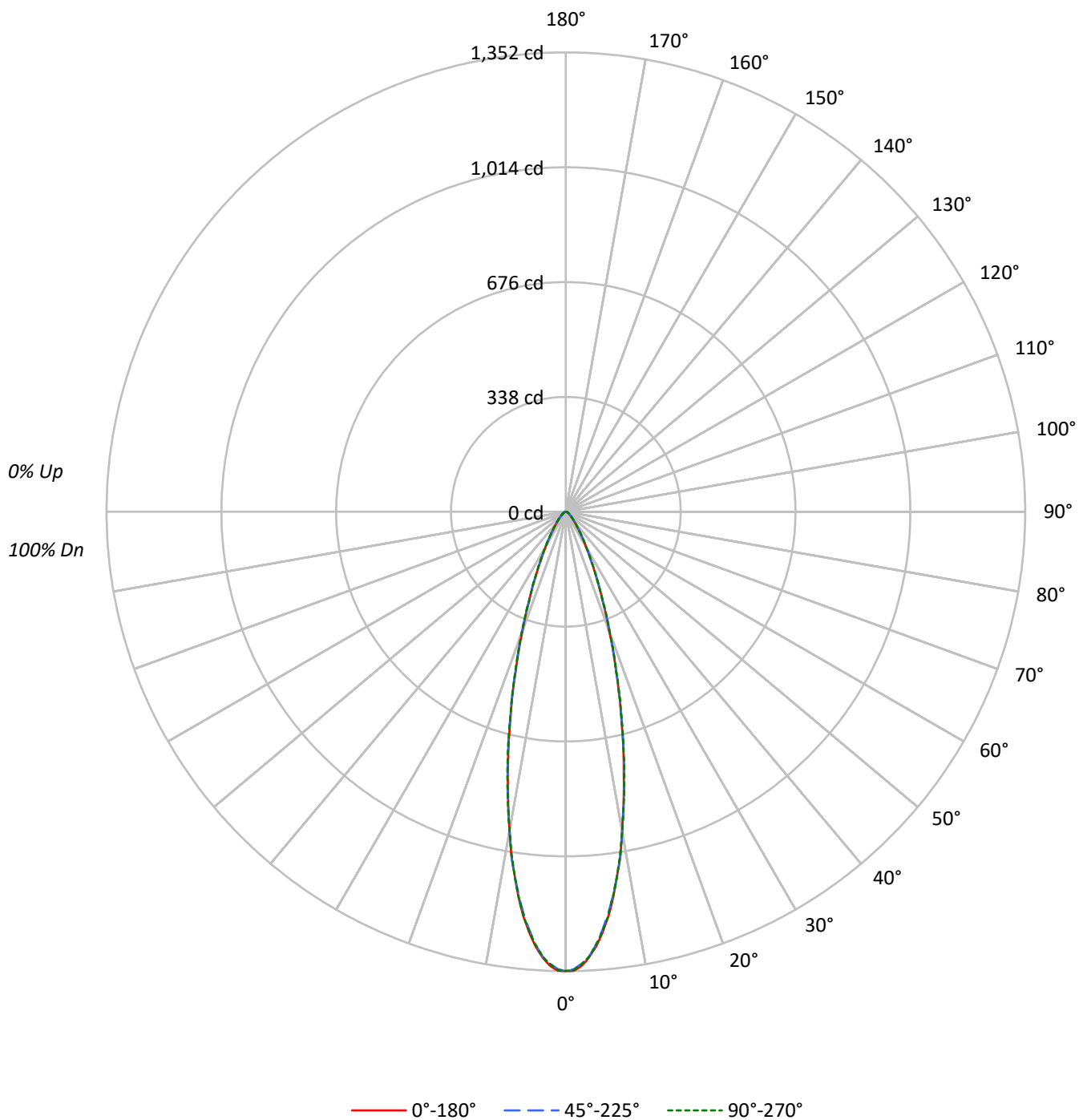
Lumens per Lamp: N/A  
Luminaire Lumens: 475.0 lumens  
Efficiency: N/A  
Efficacy: 52.8 lumens/watt  
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1325979

CATALOG NUMBER: LDSQA3D09R20W2N902750DE010 3LSQPHRL1MMS\_3500K

### Luminous Intensity Polar Plot



TEST NUMBER: P1325979

CATALOG NUMBER: LDSQA3D09R20W2N902750DE010 3LSQPHRL1MMS\_3500K

**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°  | 232776 | 232776 | 232776 |
| 5°  | 214752 | 213525 | 214251 |
| 10° | 166660 | 166852 | 166852 |
| 15° | 112649 | 113166 | 113166 |
| 20° | 68417  | 69278  | 69608  |
| 25° | 40134  | 40685  | 40571  |
| 30° | 23406  | 23884  | 24003  |
| 35° | 14297  | 14675  | 14675  |
| 40° | 9308   | 9442   | 9577   |
| 45° | 6479   | 6625   | 6771   |
| 50° | 4742   | 4903   | 4903   |
| 55° | 3723   | 3903   | 3903   |
| 60° | 3272   | 3272   | 3479   |
| 65° | 2893   | 2893   | 3138   |
| 70° | 2669   | 2669   | 2669   |
| 75° | 2329   | 2329   | 2329   |
| 80° | 1785   | 1785   | 2380   |
| 85° | 1186   | 1186   | 2371   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6771 cd/sqm

TEST NUMBER: P1325979

CATALOG NUMBER: LDSQA3D09R20W2N902750DE010 3LSQPHRL1MMS\_3500K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 109.0  | 22.9      |
| 10°-20°   | 174.5  | 36.7      |
| 20°-30°   | 101.1  | 21.3      |
| 30°-40°   | 45.3   | 9.5       |
| 40°-50°   | 21.5   | 4.5       |
| 50°-60°   | 11.8   | 2.5       |
| 60°-70°   | 7.1    | 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°    | 384.6  | 81.0      |
| 0°-40°    | 429.9  | 90.5      |
| 0°-60°    | 463.2  | 97.5      |
| 0°-90°    | 475.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 475.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1352 | 1352  | 1352 | 1352  | 1352 |      |
| 5°  | 1242 | 1238  | 1235 | 1238  | 1239 | 109  |
| 15° | 632  | 632   | 635  | 632   | 635  | 174  |
| 25° | 211  | 211   | 214  | 212   | 214  | 100  |
| 35° | 68   | 69    | 70   | 70    | 70   | 44   |
| 45° | 27   | 27    | 27   | 27    | 28   | 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    |      |

TEST NUMBER: P1325979

CATALOG NUMBER: LDSQA3D09R20W2N902750DE010 3LSQPHRL1MMS\_3500K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1351.6 | 1351.6 | 1351.6 | 1351.6 | 1351.6 |
| 1°    | 1351.1 | 1347.5 | 1346.3 | 1345.1 | 1348.7 |
| 2°    | 1337.4 | 1333.3 | 1330.9 | 1332.1 | 1332.7 |
| 3°    | 1313.2 | 1310.8 | 1310.8 | 1309.1 | 1310.2 |
| 4°    | 1281.8 | 1277.1 | 1277.1 | 1277.7 | 1277.7 |
| 5°    | 1242.2 | 1238.1 | 1235.1 | 1237.5 | 1239.3 |
| 6°    | 1197.8 | 1192.5 | 1190.2 | 1190.8 | 1194.9 |
| 7°    | 1143.4 | 1136.3 | 1137.5 | 1140.5 | 1140.5 |
| 8°    | 1081.9 | 1081.3 | 1082.5 | 1081.3 | 1082.5 |
| 9°    | 1025.1 | 1016.8 | 1023.9 | 1018.0 | 1021.0 |
| 10°   | 953.0  | 952.4  | 954.1  | 955.9  | 954.1  |
| 12.5° | 788.5  | 791.5  | 792.7  | 790.3  | 795.6  |
| 15°   | 631.8  | 631.8  | 634.7  | 631.8  | 634.7  |
| 17.5° | 491.6  | 491.0  | 493.3  | 491.0  | 494.5  |
| 20°   | 373.3  | 377.4  | 378.0  | 378.0  | 379.8  |
| 22.5° | 281.6  | 281.6  | 283.9  | 284.5  | 283.3  |
| 25°   | 211.2  | 211.2  | 214.1  | 212.4  | 213.5  |
| 27.5° | 156.2  | 157.3  | 159.7  | 160.9  | 160.9  |
| 30°   | 117.7  | 118.3  | 120.1  | 120.7  | 120.7  |
| 32.5° | 88.7   | 89.9   | 91.1   | 91.7   | 92.3   |
| 35°   | 68.0   | 68.6   | 69.8   | 70.4   | 69.8   |
| 37.5° | 52.1   | 52.6   | 53.8   | 54.4   | 54.4   |
| 40°   | 41.4   | 41.4   | 42.0   | 42.6   | 42.6   |
| 42.5° | 32.5   | 33.1   | 33.1   | 33.7   | 33.7   |
| 45°   | 26.6   | 26.6   | 27.2   | 27.2   | 27.8   |
| 47.5° | 21.3   | 21.3   | 21.9   | 22.5   | 22.5   |
| 50°   | 17.7   | 17.7   | 18.3   | 18.3   | 18.3   |
| 52.5° | 14.8   | 14.8   | 15.4   | 15.4   | 15.4   |
| 55°   | 12.4   | 12.4   | 13.0   | 13.0   | 13.0   |
| 57.5° | 10.6   | 10.6   | 11.2   | 11.2   | 11.2   |
| 60°   | 9.5    | 9.5    | 9.5    | 9.5    | 10.1   |
| 62.5° | 8.3    | 8.3    | 8.3    | 8.3    | 8.3    |
| 65°   | 7.1    | 7.1    | 7.1    | 7.1    | 7.7    |
| 67.5° | 5.9    | 5.9    | 5.9    | 5.9    | 6.5    |
| 70°   | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    |
| 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° | 3.0    | 3.0    | 3.0    | 3.0    | 3.0    |
| 80°   | 1.8    | 1.8    | 1.8    | 2.4    | 2.4    |
| 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)