

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: P1324374

Luminaire Tested: LDSQA3D05R20W2N902750DE010 3LSQPHRL1MMS\_4000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1324374  
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: LDSQA3D05R20W2N902750DE010 3LSQPHRL1MMS\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 4000K CCT AND, 90CRI ,  
3LSQPHRL1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

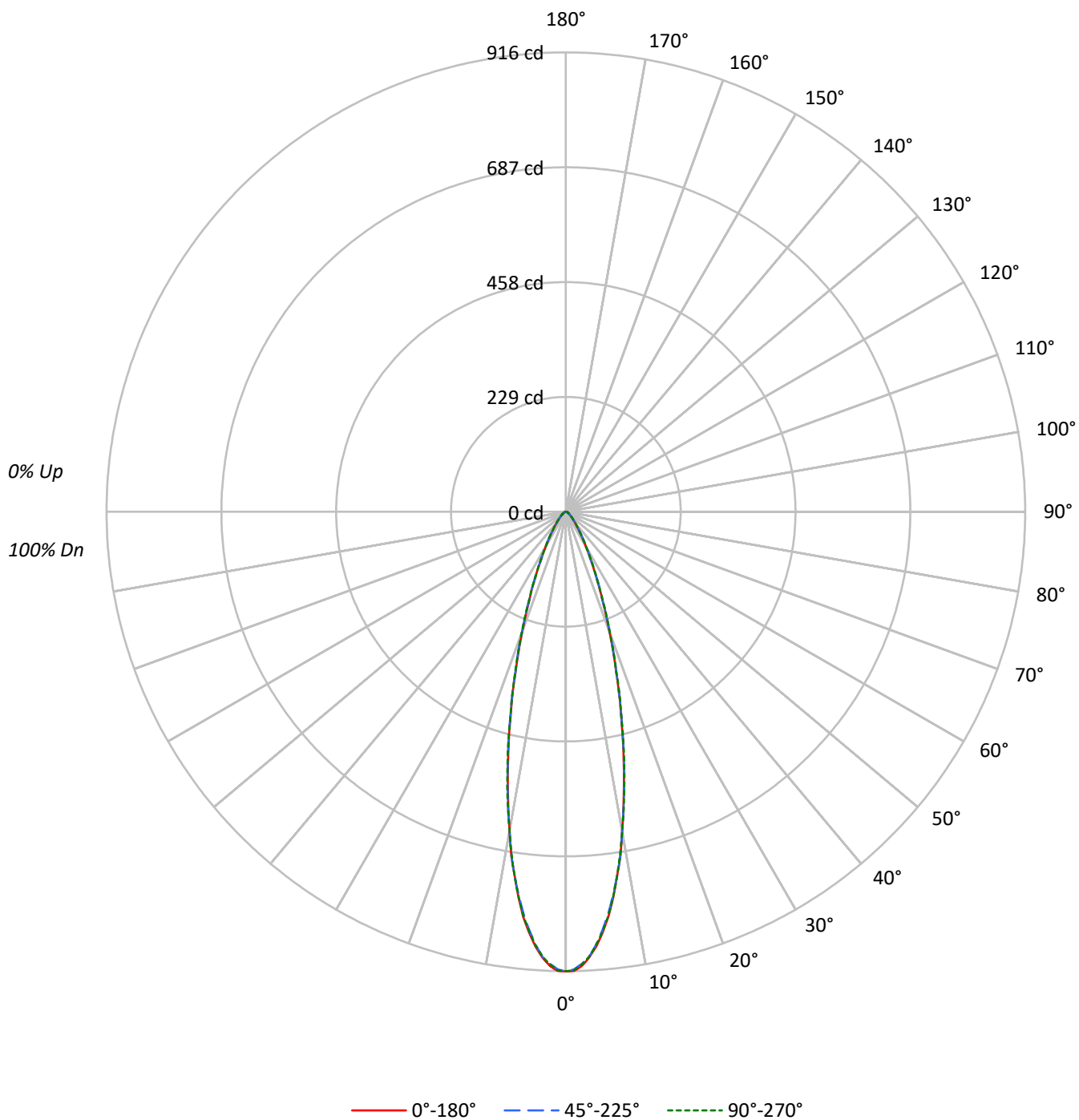
Lumens per Lamp: N/A  
Luminaire Lumens: 322.0 lumens  
Efficiency: N/A  
Efficacy: 54.6 lumens/watt  
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.9  
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°  | 157808 | 157808 | 157808 |
| 5°  | 145583 | 144753 | 145237 |
| 10° | 112972 | 113112 | 113112 |
| 15° | 76365  | 76722  | 76722  |
| 20° | 46369  | 46955  | 47175  |
| 25° | 27212  | 27592  | 27516  |
| 30° | 15869  | 16188  | 16267  |
| 35° | 9692   | 9945   | 9945   |
| 40° | 6317   | 6407   | 6497   |
| 45° | 4384   | 4481   | 4579   |
| 50° | 3215   | 3322   | 3322   |
| 55° | 2522   | 2642   | 2642   |
| 60° | 2204   | 2204   | 2342   |
| 65° | 1956   | 1956   | 2119   |
| 70° | 1813   | 1813   | 1813   |
| 75° | 1597   | 1597   | 1597   |
| 80° | 1190   | 1190   | 1587   |
| 85° | 790    | 790    | 1581   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4579 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 73.9   | 22.9      |
| 10°-20°   | 118.3  | 36.7      |
| 20°-30°   | 68.5   | 21.3      |
| 30°-40°   | 30.7   | 9.5       |
| 40°-50°   | 14.6   | 4.5       |
| 50°-60°   | 8.0    | 2.5       |
| 60°-70°   | 4.8    | 1.5       |
| 70°-80°   | 2.6    | 0.8       |
| 80°-90°   | 0.6    | 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°    | 260.7  | 81.0      |
| 0°-40°    | 291.5  | 90.5      |
| 0°-60°    | 314.0  | 97.5      |
| 0°-90°    | 322.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 322.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 916 | 916   | 916 | 916   | 916 |      |
| 5°  | 842 | 839   | 837 | 839   | 840 | 74   |
| 15° | 428 | 428   | 430 | 428   | 430 | 118  |
| 25° | 143 | 143   | 145 | 144   | 145 | 68   |
| 35° | 46  | 46    | 47  | 48    | 47  | 30   |
| 45° | 18  | 18    | 18  | 18    | 19  | 14   |
| 55° | 8   | 8     | 9   | 9     | 9   | 8    |
| 65° | 5   | 5     | 5   | 5     | 5   | 5    |
| 75° | 2   | 2     | 2   | 2     | 2   | 3    |
| 85° | 0   | 0     | 0   | 0     | 1   | 0    |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 916.3 | 916.3 | 916.3 | 916.3 | 916.3 |
| 1°    | 915.9 | 913.5 | 912.7 | 911.9 | 914.3 |
| 2°    | 906.6 | 903.8 | 902.2 | 903.0 | 903.4 |
| 3°    | 890.2 | 888.6 | 888.6 | 887.4 | 888.2 |
| 4°    | 869.0 | 865.7 | 865.7 | 866.1 | 866.1 |
| 5°    | 842.1 | 839.3 | 837.3 | 838.9 | 840.1 |
| 6°    | 812.0 | 808.4 | 806.8 | 807.2 | 810.0 |
| 7°    | 775.1 | 770.3 | 771.1 | 773.1 | 773.1 |
| 8°    | 733.4 | 733.0 | 733.8 | 733.0 | 733.8 |
| 9°    | 694.9 | 689.3 | 694.1 | 690.1 | 692.1 |
| 10°   | 646.0 | 645.6 | 646.8 | 648.0 | 646.8 |
| 12.5° | 534.5 | 536.5 | 537.3 | 535.7 | 539.3 |
| 15°   | 428.3 | 428.3 | 430.3 | 428.3 | 430.3 |
| 17.5° | 333.2 | 332.8 | 334.4 | 332.8 | 335.2 |
| 20°   | 253.0 | 255.8 | 256.2 | 256.2 | 257.4 |
| 22.5° | 190.9 | 190.9 | 192.5 | 192.9 | 192.1 |
| 25°   | 143.2 | 143.2 | 145.2 | 144.0 | 144.8 |
| 27.5° | 105.9 | 106.7 | 108.3 | 109.1 | 109.1 |
| 30°   | 79.8  | 80.2  | 81.4  | 81.8  | 81.8  |
| 32.5° | 60.1  | 61.0  | 61.8  | 62.2  | 62.6  |
| 35°   | 46.1  | 46.5  | 47.3  | 47.7  | 47.3  |
| 37.5° | 35.3  | 35.7  | 36.5  | 36.9  | 36.9  |
| 40°   | 28.1  | 28.1  | 28.5  | 28.9  | 28.9  |
| 42.5° | 22.1  | 22.5  | 22.5  | 22.9  | 22.9  |
| 45°   | 18.0  | 18.0  | 18.4  | 18.4  | 18.8  |
| 47.5° | 14.4  | 14.4  | 14.8  | 15.2  | 15.2  |
| 50°   | 12.0  | 12.0  | 12.4  | 12.4  | 12.4  |
| 52.5° | 10.0  | 10.0  | 10.4  | 10.4  | 10.4  |
| 55°   | 8.4   | 8.4   | 8.8   | 8.8   | 8.8   |
| 57.5° | 7.2   | 7.2   | 7.6   | 7.6   | 7.6   |
| 60°   | 6.4   | 6.4   | 6.4   | 6.4   | 6.8   |
| 62.5° | 5.6   | 5.6   | 5.6   | 5.6   | 5.6   |
| 65°   | 4.8   | 4.8   | 4.8   | 4.8   | 5.2   |
| 67.5° | 4.0   | 4.0   | 4.0   | 4.0   | 4.4   |
| 70°   | 3.6   | 3.6   | 3.6   | 3.6   | 3.6   |
| 72.5° | 2.8   | 2.8   | 2.8   | 3.2   | 3.2   |
| 75°   | 2.4   | 2.4   | 2.4   | 2.4   | 2.4   |
| 77.5° | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| 80°   | 1.2   | 1.2   | 1.2   | 1.6   | 1.6   |
| 82.5° | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   |
| 85°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.8   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.4   | 0.4   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)