

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: P1325325

Luminaire Tested: LDSQA3D05R50W2N902765DE010 3LSQCDR1MB\_5000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1325325  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R50W2N902765DE010 3LSQCDR1MB\_5000K  
Description: 3in Adjustable Tunable White LED luminaire with, R50 optic, 5000K CCT AND, 90CRI ,  
3LSQCDR1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

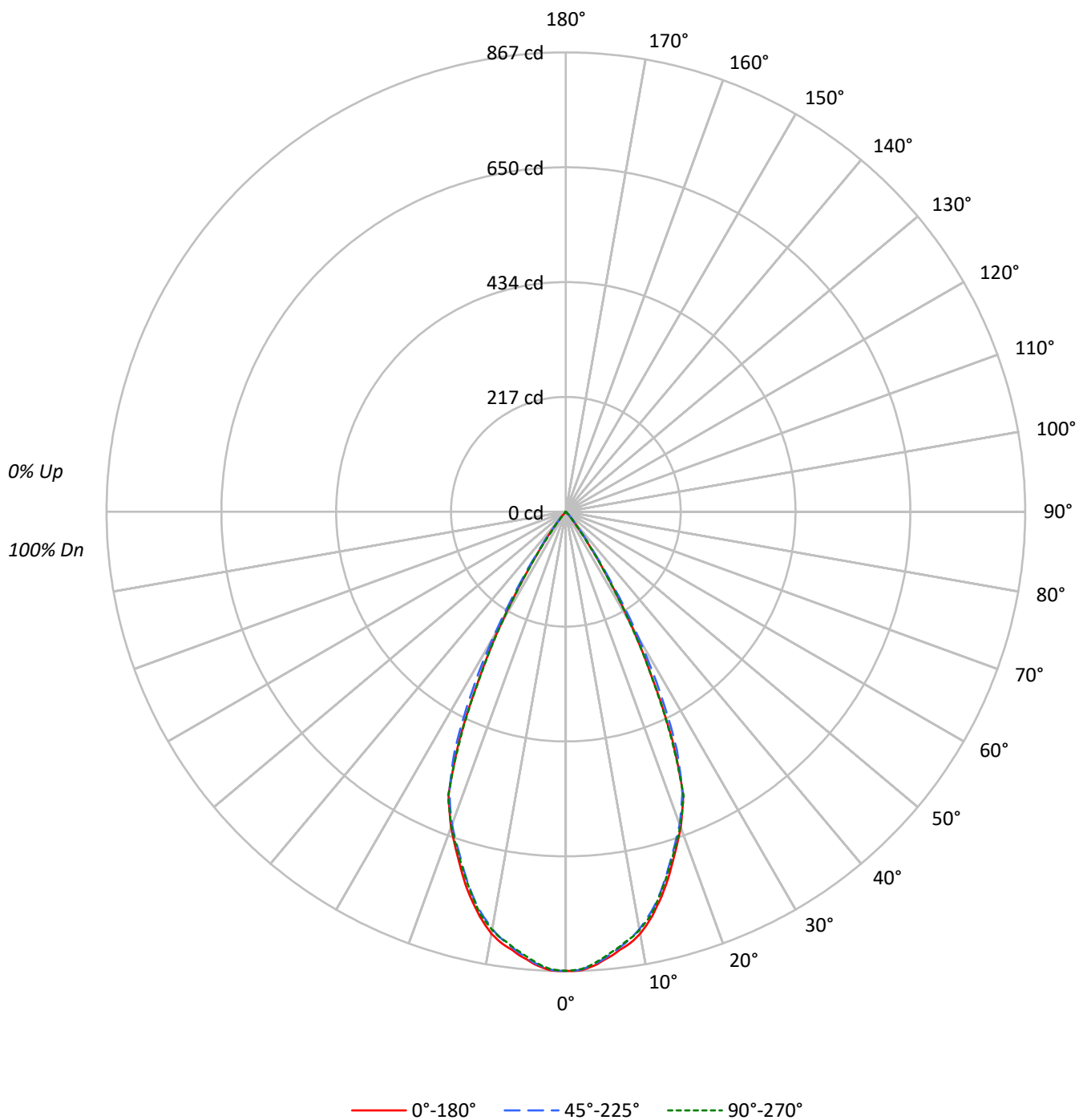
Lumens per Lamp: N/A  
Luminaire Lumens: 558.0 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.78  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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 | 112 | 109 | 107 | 112 | 110 | 108 | 106 | 106 | 104 | 102 | 102 | 101 | 99  | 98  | 97  | 97  | 97  | 97  | 95  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 98  | 95  | 97  | 95  | 93  | 95  | 93  | 91  | 91  | 91  | 90  |
| 3   | 105 | 99  | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 92  | 89  | 93  | 90  | 88  | 91  | 88  | 86  | 86  | 86  | 85  |
| 4   | 100 | 94  | 89  | 85  | 99  | 93  | 88  | 85  | 90  | 87  | 84  | 89  | 85  | 83  | 87  | 84  | 82  | 82  | 82  | 80  |
| 5   | 96  | 89  | 84  | 80  | 95  | 88  | 83  | 79  | 86  | 82  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 77  | 77  | 76  |
| 6   | 92  | 84  | 79  | 75  | 91  | 83  | 79  | 75  | 82  | 78  | 74  | 81  | 77  | 74  | 79  | 76  | 73  | 73  | 73  | 72  |
| 7   | 88  | 80  | 75  | 71  | 87  | 79  | 74  | 71  | 78  | 74  | 70  | 77  | 73  | 70  | 76  | 72  | 70  | 70  | 70  | 69  |
| 8   | 85  | 76  | 71  | 67  | 83  | 76  | 71  | 67  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 69  | 66  | 66  | 66  | 65  |
| 9   | 81  | 73  | 67  | 64  | 80  | 72  | 67  | 64  | 71  | 67  | 64  | 70  | 66  | 63  | 70  | 66  | 63  | 63  | 63  | 62  |
| 10  | 78  | 69  | 64  | 61  | 77  | 69  | 64  | 61  | 68  | 64  | 60  | 67  | 63  | 60  | 67  | 63  | 60  | 60  | 60  | 59  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 149231 | 149231 | 149231 |
| 5°  | 146637 | 146222 | 145807 |
| 10° | 141425 | 139886 | 140166 |
| 15° | 130086 | 128446 | 128802 |
| 20° | 116160 | 115060 | 115720 |
| 25° | 90415  | 94196  | 89427  |
| 30° | 48981  | 54688  | 48106  |
| 35° | 15432  | 18375  | 15096  |
| 40° | 3417   | 4766   | 3237   |
| 45° | 97     | 1461   | 97     |
| 50° | 0      | 214    | 0      |
| 55° | 0      | 0      | 0      |
| 60° | 0      | 0      | 0      |
| 65° | 0      | 0      | 0      |
| 70° | 0      | 0      | 0      |
| 75° | 0      | 0      | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 1461 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 79.4   | 14.2      |
| 10°-20°   | 201.7  | 36.1      |
| 20°-30°   | 212.4  | 38.1      |
| 30°-40°   | 60.7   | 10.9      |
| 40°-50°   | 3.8    | 0.7       |
| 50°-60°   | 0.0    | 0.0       |
| 60°-70°   | 0.0    | 0.0       |
| 70°-80°   | 0.0    | 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°    | 493.5  | 88.4      |
| 0°-40°    | 554.2  | 99.3      |
| 0°-60°    | 558.0  | 100.0     |
| 0°-90°    | 558.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 558.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 866 | 866   | 866 | 866   | 866 |      |
| 5°  | 848 | 847   | 846 | 845   | 843 | 80   |
| 15° | 730 | 725   | 720 | 722   | 722 | 203  |
| 25° | 476 | 493   | 496 | 490   | 471 | 208  |
| 35° | 73  | 79    | 87  | 74    | 72  | 57   |
| 45° | 0   | 2     | 6   | 2     | 0   | 2    |
| 55° | 0   | 0     | 0   | 0     | 0   | 0    |
| 65° | 0   | 0     | 0   | 0     | 0   | 0    |
| 75° | 0   | 0     | 0   | 0     | 0   | 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°    | 866.5 | 866.5 | 866.5 | 866.5 | 866.5 |
| 1°    | 866.9 | 867.3 | 866.5 | 867.3 | 865.3 |
| 2°    | 865.7 | 864.9 | 864.1 | 864.5 | 863.3 |
| 3°    | 861.3 | 860.9 | 859.3 | 859.7 | 858.1 |
| 4°    | 855.7 | 854.6 | 853.4 | 852.6 | 851.0 |
| 5°    | 848.2 | 847.4 | 845.8 | 845.0 | 843.4 |
| 6°    | 841.8 | 840.2 | 837.4 | 836.6 | 835.0 |
| 7°    | 833.4 | 832.6 | 829.0 | 828.2 | 827.4 |
| 8°    | 827.0 | 824.6 | 820.2 | 820.6 | 818.6 |
| 9°    | 818.6 | 815.4 | 811.0 | 811.0 | 811.4 |
| 10°   | 808.7 | 803.9 | 799.9 | 801.1 | 801.5 |
| 11°   | 795.5 | 792.3 | 786.3 | 789.1 | 789.1 |
| 12°   | 781.1 | 777.1 | 772.7 | 775.1 | 776.7 |
| 13°   | 764.3 | 761.2 | 757.2 | 759.6 | 758.8 |
| 14°   | 748.0 | 742.0 | 739.2 | 742.4 | 741.2 |
| 15°   | 729.6 | 724.8 | 720.4 | 721.6 | 722.4 |
| 17.5° | 680.5 | 675.3 | 672.1 | 672.5 | 676.1 |
| 20°   | 633.8 | 631.8 | 627.8 | 629.4 | 631.4 |
| 22.5° | 578.7 | 579.5 | 574.8 | 576.0 | 580.7 |
| 25°   | 475.8 | 493.3 | 495.7 | 490.1 | 470.6 |
| 27.5° | 352.4 | 378.8 | 386.8 | 374.0 | 350.0 |
| 30°   | 246.3 | 253.5 | 275.0 | 250.7 | 241.9 |
| 32.5° | 144.5 | 155.3 | 166.8 | 150.1 | 144.1 |
| 35°   | 73.4  | 78.6  | 87.4  | 74.2  | 71.8  |
| 37.5° | 33.9  | 36.3  | 39.9  | 33.9  | 31.9  |
| 40°   | 15.2  | 18.0  | 21.2  | 17.2  | 14.4  |
| 42.5° | 4.8   | 8.4   | 11.2  | 7.6   | 4.4   |
| 45°   | 0.4   | 2.0   | 6.0   | 2.0   | 0.4   |
| 47.5° | 0.0   | 0.4   | 2.4   | 0.4   | 0.0   |
| 50°   | 0.0   | 0.0   | 0.8   | 0.0   | 0.0   |
| 52.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 55°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 57.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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)