

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: P1325237

Luminaire Tested: LDSQA3D05R45W2N902765DE010 3LSQCDR1MW\_4000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1325237  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-44)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R45W2N902765DE010 3LSQCDR1MW\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 4000K CCT AND, 90CRI ,  
3LSQCDR1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

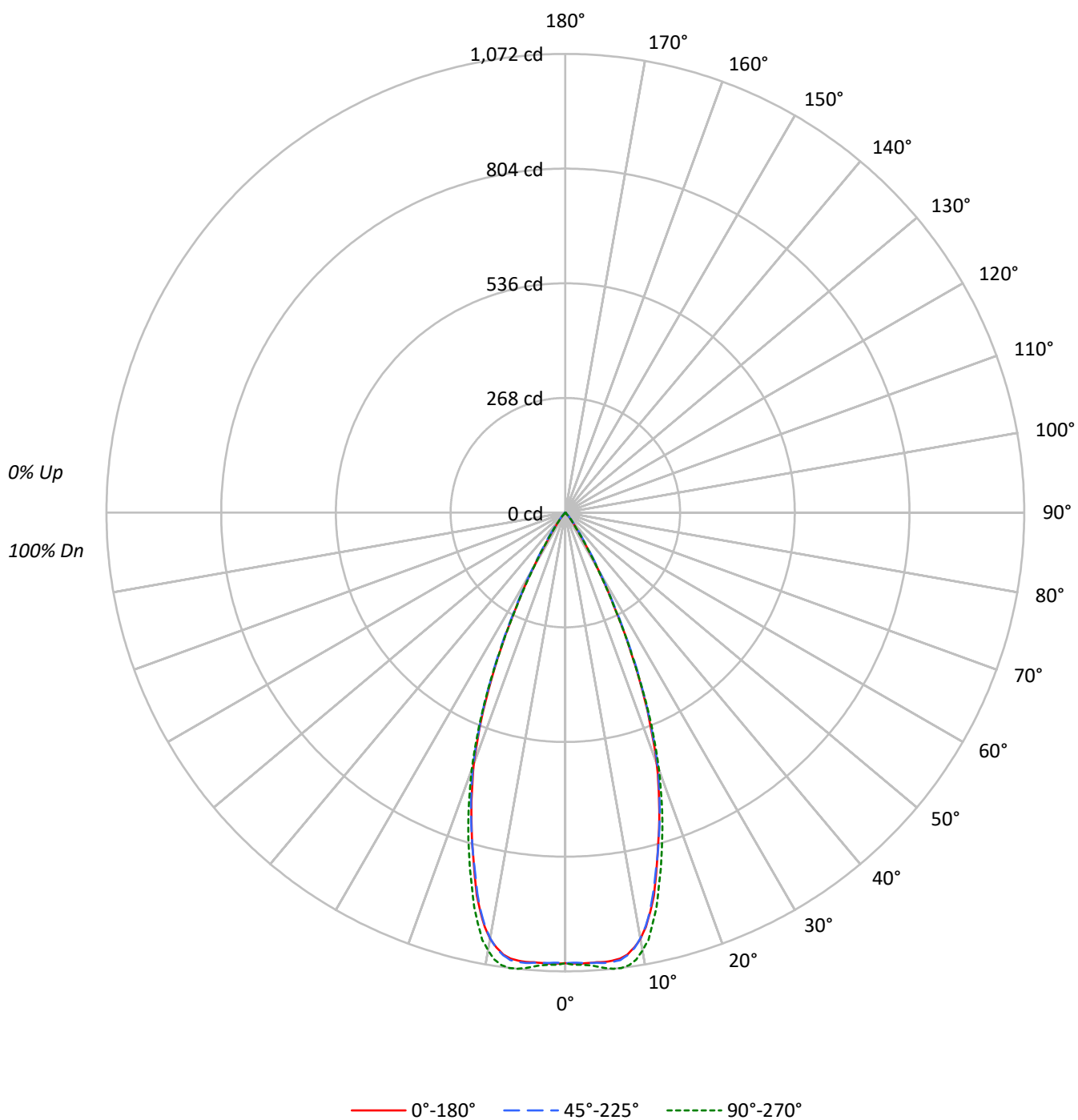
Lumens per Lamp: N/A  
Luminaire Lumens: 545.0 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Spacing Criteria (0/90/45): 0.72 / 0.73 / 0.67  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 181350 | 181350 | 181350 |
| 5°  | 182251 | 182596 | 184688 |
| 10° | 176838 | 176698 | 181630 |
| 15° | 148201 | 148130 | 153586 |
| 20° | 114566 | 115757 | 117370 |
| 25° | 70234  | 71697  | 70386  |
| 30° | 30128  | 31480  | 29154  |
| 35° | 9461   | 11395  | 9209   |
| 40° | 3260   | 4159   | 3170   |
| 45° | 585    | 1754   | 487    |
| 50° | 322    | 643    | 322    |
| 55° | 360    | 360    | 360    |
| 60° | 276    | 276    | 276    |
| 65° | 326    | 326    | 326    |
| 70° | 201    | 201    | 201    |
| 75° | 266    | 266    | 266    |
| 80° | 397    | 397    | 397    |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 1754 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 100.1  | 18.4      |
| 10°-20°   | 231.3  | 42.4      |
| 20°-30°   | 169.3  | 31.1      |
| 30°-40°   | 37.4   | 6.9       |
| 40°-50°   | 4.6    | 0.8       |
| 50°-60°   | 1.1    | 0.2       |
| 60°-70°   | 0.8    | 0.1       |
| 70°-80°   | 0.4    | 0.1       |
| 80°-90°   | 0.1    | 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°    | 500.7  | 91.9      |
| 0°-40°    | 538.1  | 98.7      |
| 0°-60°    | 543.7  | 99.8      |
| 0°-90°    | 545.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 545.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1053 | 1053  | 1053 | 1053  | 1053 |      |
| 5°  | 1054 | 1053  | 1056 | 1064  | 1068 | 100  |
| 15° | 831  | 827   | 831  | 851   | 861  | 229  |
| 25° | 370  | 369   | 377  | 374   | 370  | 167  |
| 35° | 45   | 47    | 54   | 47    | 44   | 36   |
| 45° | 2    | 4     | 7    | 4     | 2    | 3    |
| 55° | 1    | 1     | 1    | 1     | 1    | 1    |
| 65° | 1    | 1     | 1    | 1     | 1    | 1    |
| 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°    | 1053.0 | 1053.0 | 1053.0 | 1053.0 | 1053.0 |
| 1°    | 1053.8 | 1052.2 | 1051.8 | 1054.6 | 1056.6 |
| 2°    | 1054.6 | 1052.6 | 1053.0 | 1055.8 | 1057.0 |
| 3°    | 1053.8 | 1051.8 | 1053.8 | 1057.8 | 1059.4 |
| 4°    | 1053.4 | 1052.6 | 1054.6 | 1060.2 | 1063.1 |
| 5°    | 1054.2 | 1053.4 | 1056.2 | 1063.9 | 1068.3 |
| 6°    | 1053.0 | 1051.8 | 1055.8 | 1065.5 | 1071.9 |
| 7°    | 1050.2 | 1049.0 | 1053.4 | 1065.1 | 1072.3 |
| 8°    | 1042.6 | 1040.2 | 1044.6 | 1059.0 | 1067.9 |
| 9°    | 1028.9 | 1025.7 | 1030.1 | 1047.0 | 1057.4 |
| 10°   | 1011.2 | 1007.6 | 1010.4 | 1026.9 | 1038.6 |
| 11°   | 985.9  | 981.1  | 984.3  | 1002.0 | 1017.3 |
| 12°   | 953.8  | 946.9  | 951.0  | 971.1  | 981.9  |
| 13°   | 918.8  | 912.4  | 913.2  | 931.3  | 946.5  |
| 14°   | 875.4  | 867.0  | 870.6  | 889.5  | 901.6  |
| 15°   | 831.2  | 826.8  | 830.8  | 850.9  | 861.4  |
| 17.5° | 730.0  | 729.6  | 733.2  | 748.1  | 753.7  |
| 20°   | 625.1  | 626.3  | 631.6  | 639.6  | 640.4  |
| 22.5° | 501.0  | 501.4  | 507.0  | 512.6  | 511.4  |
| 25°   | 369.6  | 369.2  | 377.3  | 374.4  | 370.4  |
| 27.5° | 245.1  | 246.7  | 253.9  | 248.7  | 244.7  |
| 30°   | 151.5  | 154.7  | 158.3  | 151.9  | 146.6  |
| 32.5° | 82.0   | 87.2   | 92.4   | 86.8   | 81.6   |
| 35°   | 45.0   | 47.4   | 54.2   | 47.4   | 43.8   |
| 37.5° | 26.1   | 27.3   | 31.7   | 27.3   | 24.9   |
| 40°   | 14.5   | 16.5   | 18.5   | 16.5   | 14.1   |
| 42.5° | 6.0    | 9.2    | 11.2   | 9.2    | 6.0    |
| 45°   | 2.4    | 4.0    | 7.2    | 4.0    | 2.0    |
| 47.5° | 1.2    | 1.6    | 4.4    | 1.6    | 1.2    |
| 50°   | 1.2    | 1.2    | 2.4    | 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    | 1.2    | 1.2    | 1.2    |
| 60°   | 0.8    | 0.8    | 0.8    | 1.2    | 0.8    |
| 62.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 65°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 67.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 70°   | 0.4    | 0.4    | 0.4    | 0.8    | 0.4    |
| 72.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| 75°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| 77.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| 80°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| 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)