

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: P1327129

Luminaire Tested: LDSQA3D09R60W2N902765DE010 3LSQCDR1MB\_5000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1327129  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R60W2N902765DE010 3LSQCDR1MB\_5000K  
Description: 3in Adjustable Tunable White LED luminaire with, R60 optic, 5000K CCT AND, 90CRI ,  
3LSQCDR1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

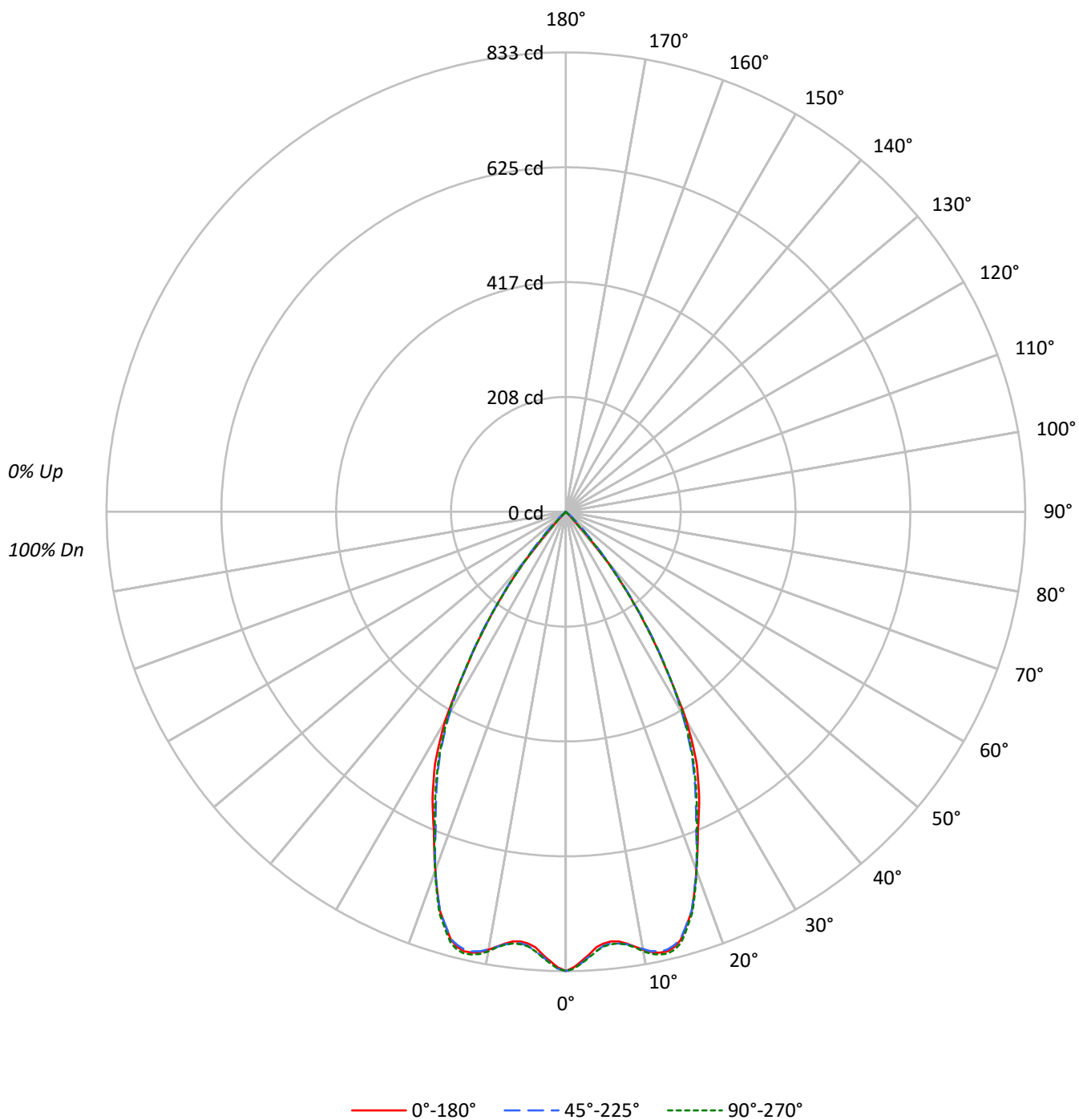
Lumens per Lamp: N/A  
Luminaire Lumens: 738.0 lumens  
Efficiency: N/A  
Efficacy: 82.0 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.93 / 0.9  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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   | 108 | 104 | 100 | 97  | 106 | 102 | 98  | 95  | 99  | 96  | 93  | 96  | 93  | 91  | 93  | 91  | 89  | 88  | 88  | 88  |
| 3   | 103 | 97  | 92  | 88  | 101 | 96  | 91  | 88  | 93  | 89  | 86  | 91  | 88  | 85  | 88  | 86  | 84  | 82  | 82  | 82  |
| 4   | 98  | 91  | 86  | 81  | 96  | 90  | 85  | 81  | 88  | 83  | 80  | 86  | 82  | 79  | 84  | 81  | 78  | 77  | 77  | 77  |
| 5   | 93  | 85  | 80  | 76  | 92  | 84  | 79  | 75  | 83  | 78  | 75  | 81  | 77  | 74  | 79  | 76  | 73  | 72  | 72  | 72  |
| 6   | 89  | 80  | 74  | 70  | 87  | 79  | 74  | 70  | 78  | 73  | 70  | 77  | 72  | 69  | 75  | 72  | 69  | 67  | 67  | 67  |
| 7   | 85  | 76  | 70  | 66  | 83  | 75  | 69  | 65  | 74  | 69  | 65  | 72  | 68  | 65  | 71  | 67  | 64  | 63  | 63  | 63  |
| 8   | 81  | 71  | 66  | 62  | 79  | 71  | 65  | 61  | 70  | 65  | 61  | 69  | 64  | 61  | 68  | 64  | 61  | 59  | 59  | 59  |
| 9   | 77  | 67  | 62  | 58  | 76  | 67  | 61  | 58  | 66  | 61  | 57  | 65  | 61  | 57  | 64  | 60  | 57  | 56  | 56  | 56  |
| 10  | 73  | 64  | 58  | 54  | 72  | 63  | 58  | 54  | 63  | 58  | 54  | 62  | 57  | 54  | 61  | 57  | 54  | 53  | 53  | 53  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 143427 | 143427 | 143427 |
| 5°  | 135832 | 136541 | 136748 |
| 10° | 141005 | 140795 | 141617 |
| 15° | 143334 | 143138 | 144172 |
| 20° | 126845 | 126845 | 127065 |
| 25° | 108714 | 105465 | 106358 |
| 30° | 86964  | 83802  | 85095  |
| 35° | 53949  | 55063  | 53823  |
| 40° | 23674  | 26057  | 24348  |
| 45° | 292    | 8452   | 706    |
| 50° | 0      | 938    | 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: 8452 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 76.1   | 10.3      |
| 10°-20°   | 220.5  | 29.9      |
| 20°-30°   | 256.0  | 34.7      |
| 30°-40°   | 161.2  | 21.8      |
| 40°-50°   | 24.2   | 3.3       |
| 50°-60°   | 0.1    | 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°    | 552.5  | 74.9      |
| 0°-40°    | 713.7  | 96.7      |
| 0°-60°    | 738.0  | 100.0     |
| 0°-90°    | 738.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 738.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 833 | 833   | 833 | 833   | 833 |      |
| 5°  | 786 | 789   | 790 | 792   | 791 | 76   |
| 15° | 804 | 801   | 803 | 808   | 809 | 220  |
| 25° | 572 | 566   | 555 | 557   | 560 | 260  |
| 35° | 257 | 257   | 262 | 257   | 256 | 160  |
| 45° | 1   | 11    | 35  | 15    | 3   | 16   |
| 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°    | 832.8 | 832.8 | 832.8 | 832.8 | 832.8 |
| 1°    | 826.3 | 828.7 | 828.7 | 829.2 | 828.7 |
| 2°    | 815.1 | 818.7 | 818.7 | 820.4 | 819.2 |
| 3°    | 803.9 | 806.9 | 807.5 | 809.8 | 809.2 |
| 4°    | 791.6 | 796.3 | 798.1 | 799.2 | 798.6 |
| 5°    | 785.7 | 788.6 | 789.8 | 791.6 | 791.0 |
| 6°    | 783.3 | 785.7 | 786.9 | 788.6 | 788.6 |
| 7°    | 785.1 | 786.9 | 788.6 | 789.8 | 788.6 |
| 8°    | 790.4 | 792.2 | 792.2 | 794.5 | 792.8 |
| 9°    | 798.1 | 798.6 | 798.6 | 801.6 | 799.8 |
| 10°   | 806.3 | 805.1 | 805.1 | 809.2 | 809.8 |
| 11°   | 813.4 | 812.2 | 811.6 | 815.7 | 816.9 |
| 12°   | 817.5 | 815.1 | 815.1 | 820.4 | 821.0 |
| 13°   | 818.1 | 815.1 | 815.1 | 820.4 | 822.2 |
| 14°   | 813.4 | 809.8 | 810.4 | 816.3 | 818.1 |
| 15°   | 803.9 | 801.0 | 802.8 | 808.1 | 808.6 |
| 17.5° | 759.2 | 757.4 | 758.6 | 762.2 | 762.7 |
| 20°   | 692.1 | 690.9 | 692.1 | 692.1 | 693.3 |
| 22.5° | 625.6 | 622.7 | 616.8 | 620.3 | 620.9 |
| 25°   | 572.1 | 565.6 | 555.0 | 557.3 | 559.7 |
| 27.5° | 513.2 | 505.0 | 493.8 | 496.7 | 497.3 |
| 30°   | 437.3 | 433.2 | 421.4 | 424.3 | 427.9 |
| 32.5° | 337.8 | 349.0 | 341.9 | 341.4 | 341.9 |
| 35°   | 256.6 | 257.2 | 261.9 | 256.6 | 256.0 |
| 37.5° | 179.5 | 180.1 | 183.6 | 177.7 | 178.3 |
| 40°   | 105.3 | 113.0 | 115.9 | 113.6 | 108.3 |
| 42.5° | 33.0  | 58.3  | 65.9  | 57.1  | 36.5  |
| 45°   | 1.2   | 11.2  | 34.7  | 14.7  | 2.9   |
| 47.5° | 0.0   | 0.6   | 16.5  | 1.2   | 0.0   |
| 50°   | 0.0   | 0.0   | 3.5   | 0.0   | 0.0   |
| 52.5° | 0.0   | 0.0   | 0.6   | 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)