

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: P1326407

Luminaire Tested: LDSQA3D09R30W2N902765DE010 3LSQCDR1MW\_2700K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1326407  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-36)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R30W2N902765DE010 3LSQCDR1MW\_2700K  
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 2700K CCT AND, 90CRI ,  
3LSQCDR1MW TRIM  
Light Source: -  
Ballast/Driver: -

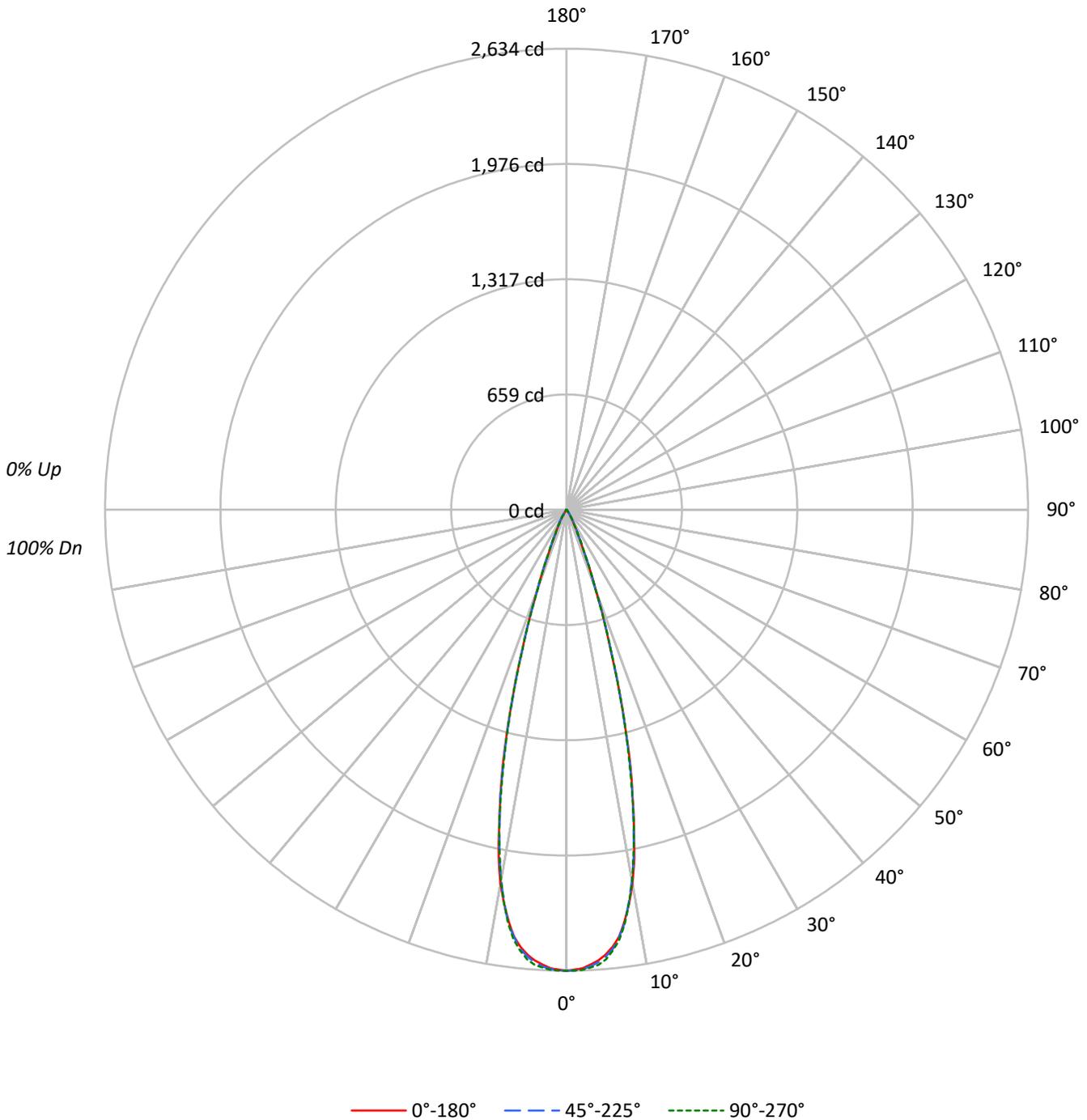
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 685.0 lumens  
Efficiency: N/A  
Efficacy: 76.1 lumens/watt  
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.46  
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  |     |     | 0   |     |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 115 | 113 | 111 | 109 | 113 | 111 | 109 | 108 | 107 | 106 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 98  | 98  | 98  | 97  |
| 2   | 111 | 108 | 105 | 102 | 109 | 106 | 104 | 101 | 103 | 101 | 99  | 100 | 99  | 97  | 98  | 96  | 95  | 98  | 96  | 95  | 94  |
| 3   | 108 | 103 | 100 | 97  | 106 | 102 | 99  | 96  | 100 | 97  | 95  | 97  | 95  | 93  | 95  | 93  | 92  | 95  | 93  | 92  | 91  |
| 4   | 105 | 99  | 96  | 93  | 103 | 98  | 95  | 92  | 96  | 93  | 91  | 95  | 92  | 90  | 93  | 91  | 89  | 93  | 91  | 89  | 88  |
| 5   | 102 | 96  | 92  | 89  | 100 | 95  | 91  | 89  | 93  | 90  | 88  | 92  | 89  | 87  | 91  | 88  | 86  | 91  | 88  | 86  | 85  |
| 6   | 99  | 93  | 89  | 86  | 98  | 92  | 88  | 85  | 91  | 87  | 85  | 90  | 87  | 84  | 88  | 86  | 84  | 88  | 86  | 84  | 83  |
| 7   | 96  | 90  | 86  | 83  | 95  | 89  | 85  | 83  | 88  | 85  | 82  | 87  | 84  | 82  | 86  | 84  | 82  | 86  | 84  | 82  | 81  |
| 8   | 94  | 87  | 83  | 80  | 93  | 87  | 83  | 80  | 86  | 82  | 80  | 85  | 82  | 80  | 84  | 81  | 79  | 84  | 81  | 79  | 78  |
| 9   | 91  | 85  | 81  | 78  | 90  | 84  | 80  | 78  | 83  | 80  | 78  | 83  | 80  | 77  | 82  | 79  | 77  | 82  | 79  | 77  | 76  |
| 10  | 89  | 82  | 78  | 76  | 88  | 82  | 78  | 76  | 81  | 78  | 76  | 81  | 78  | 75  | 80  | 77  | 75  | 80  | 77  | 75  | 74  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 453600 | 453600 | 453600 |
| 5°  | 441174 | 443093 | 445842 |
| 10° | 379366 | 376131 | 376498 |
| 15° | 233107 | 231217 | 231413 |
| 20° | 88724  | 88907  | 87257  |
| 25° | 28219  | 29720  | 28314  |
| 30° | 11355  | 14080  | 11673  |
| 35° | 3658   | 6223   | 3658   |
| 40° | 1664   | 2743   | 1664   |
| 45° | 633    | 1169   | 633    |
| 50° | 295    | 563    | 295    |
| 55° | 330    | 330    | 330    |
| 60° | 379    | 379    | 379    |
| 65° | 204    | 204    | 204    |
| 70° | 252    | 252    | 252    |
| 75° | 333    | 333    | 333    |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1169 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 232.3  | 33.9      |
| 10°-20°   | 344.7  | 50.3      |
| 20°-30°   | 85.6   | 12.5      |
| 30°-40°   | 17.1   | 2.5       |
| 40°-50°   | 3.1    | 0.5       |
| 50°-60°   | 1.0    | 0.1       |
| 60°-70°   | 0.7    | 0.1       |
| 70°-80°   | 0.5    | 0.1       |
| 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       |
| 0°-30°    | 662.6  | 96.7      |
| 0°-40°    | 679.7  | 99.2      |
| 0°-60°    | 683.8  | 99.8      |
| 0°-90°    | 685.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 685.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2634 | 2634  | 2634 | 2634  | 2634 |      |
| 5°  | 2552 | 2560  | 2563 | 2567  | 2579 | 232  |
| 15° | 1307 | 1310  | 1297 | 1301  | 1298 | 346  |
| 25° | 148  | 152   | 156  | 154   | 149  | 83   |
| 35° | 17   | 23    | 30   | 22    | 17   | 14   |
| 45° | 3    | 3     | 5    | 4     | 3    | 2    |
| 55° | 1    | 1     | 1    | 1     | 1    | 1    |
| 65° | 0    | 0     | 0    | 0     | 0    | 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°    | 2633.8 | 2633.8 | 2633.8 | 2633.8 | 2633.8 |
| 1°    | 2628.0 | 2631.2 | 2633.3 | 2633.3 | 2633.3 |
| 2°    | 2620.6 | 2622.7 | 2625.9 | 2626.4 | 2630.6 |
| 3°    | 2603.2 | 2607.9 | 2613.2 | 2616.4 | 2618.5 |
| 4°    | 2582.0 | 2588.4 | 2591.5 | 2599.5 | 2606.3 |
| 5°    | 2551.9 | 2560.4 | 2563.0 | 2566.7 | 2578.9 |
| 6°    | 2511.2 | 2517.6 | 2522.8 | 2524.4 | 2531.8 |
| 7°    | 2457.3 | 2460.5 | 2459.4 | 2462.1 | 2475.3 |
| 8°    | 2375.4 | 2376.5 | 2385.4 | 2379.6 | 2388.6 |
| 9°    | 2278.2 | 2273.9 | 2271.8 | 2276.1 | 2276.6 |
| 10°   | 2169.3 | 2155.0 | 2150.8 | 2147.1 | 2152.9 |
| 11°   | 2028.2 | 2009.7 | 2011.3 | 2010.2 | 2001.8 |
| 12°   | 1852.8 | 1850.6 | 1836.9 | 1839.5 | 1852.2 |
| 13°   | 1673.6 | 1677.3 | 1674.7 | 1677.8 | 1663.6 |
| 14°   | 1505.6 | 1487.6 | 1492.4 | 1474.4 | 1481.3 |
| 15°   | 1307.4 | 1310.0 | 1296.8 | 1301.1 | 1297.9 |
| 17.5° | 837.1  | 842.9  | 838.7  | 835.0  | 840.8  |
| 20°   | 484.1  | 483.5  | 485.1  | 480.4  | 476.1  |
| 22.5° | 254.7  | 258.4  | 263.2  | 263.7  | 266.9  |
| 25°   | 148.5  | 151.7  | 156.4  | 154.3  | 149.0  |
| 27.5° | 90.9   | 96.7   | 104.1  | 98.8   | 92.5   |
| 30°   | 57.1   | 61.8   | 70.8   | 62.4   | 58.7   |
| 32.5° | 32.2   | 39.1   | 46.5   | 39.1   | 32.2   |
| 35°   | 17.4   | 22.7   | 29.6   | 22.2   | 17.4   |
| 37.5° | 11.6   | 13.2   | 19.6   | 13.2   | 11.6   |
| 40°   | 7.4    | 9.0    | 12.2   | 9.0    | 7.4    |
| 42.5° | 4.2    | 5.8    | 6.9    | 5.8    | 4.2    |
| 45°   | 2.6    | 3.2    | 4.8    | 3.7    | 2.6    |
| 47.5° | 1.1    | 1.6    | 3.2    | 1.6    | 1.6    |
| 50°   | 1.1    | 1.1    | 2.1    | 1.1    | 1.1    |
| 52.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 55°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 57.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 60°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 62.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 65°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 67.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 70°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 72.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 75°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 77.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 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)