

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: P1318176

Luminaire Tested: LDSQA3D09R209830DE010 3LSQCDR1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1318176  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-34)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R209830DE010 3LSQCDR1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , 3LSQCDR1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

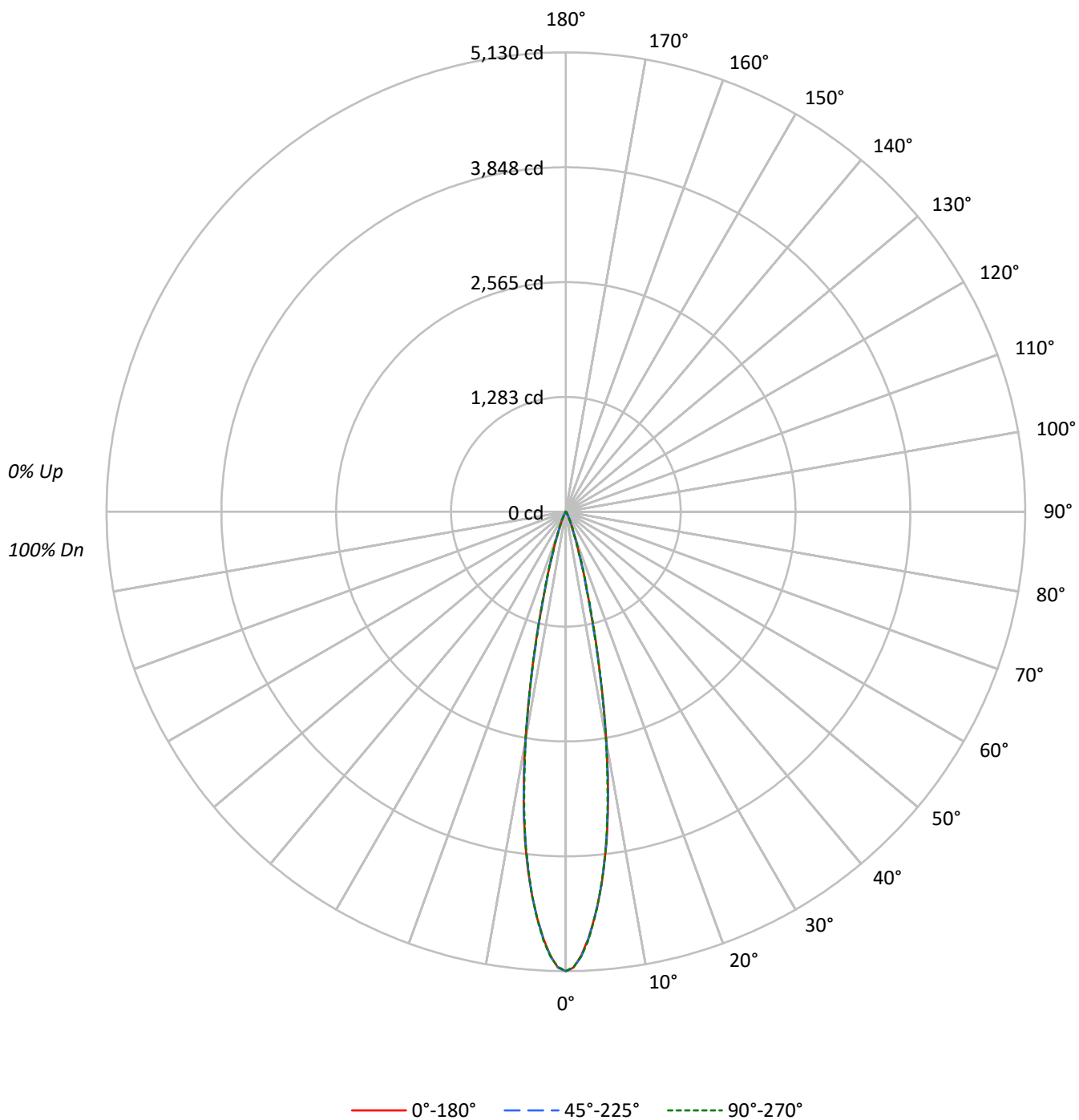
Lumens per Lamp: N/A  
Luminaire Lumens: 706.9 lumens  
Efficiency: N/A  
Efficacy: 64.3 lumens/watt  
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11  
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 | 100 | 100 | 100 |
| 1   | 116 | 114 | 112 | 110 | 113 | 111 | 110 | 109 | 108 | 106 | 105 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 98  | 98  |
| 2   | 112 | 109 | 106 | 104 | 110 | 107 | 105 | 103 | 104 | 102 | 101 | 102 | 100 | 99  | 99  | 98  | 97  | 95  | 95  | 95  |
| 3   | 109 | 105 | 102 | 100 | 108 | 104 | 101 | 99  | 102 | 99  | 97  | 99  | 97  | 96  | 97  | 96  | 94  | 93  | 93  | 93  |
| 4   | 107 | 102 | 98  | 96  | 105 | 101 | 98  | 95  | 99  | 96  | 94  | 97  | 95  | 93  | 96  | 94  | 92  | 91  | 91  | 91  |
| 5   | 104 | 99  | 95  | 93  | 103 | 98  | 95  | 92  | 97  | 94  | 92  | 95  | 93  | 91  | 94  | 92  | 90  | 89  | 89  | 89  |
| 6   | 102 | 96  | 93  | 90  | 101 | 96  | 92  | 90  | 94  | 92  | 89  | 93  | 91  | 89  | 92  | 90  | 88  | 87  | 87  | 87  |
| 7   | 100 | 94  | 91  | 88  | 99  | 94  | 90  | 88  | 92  | 90  | 87  | 92  | 89  | 87  | 91  | 88  | 87  | 86  | 86  | 86  |
| 8   | 98  | 92  | 88  | 86  | 97  | 91  | 88  | 86  | 91  | 88  | 86  | 90  | 87  | 85  | 89  | 87  | 85  | 84  | 84  | 84  |
| 9   | 96  | 90  | 87  | 84  | 95  | 90  | 86  | 84  | 89  | 86  | 84  | 88  | 86  | 84  | 88  | 85  | 83  | 83  | 83  | 83  |
| 10  | 94  | 88  | 85  | 83  | 93  | 88  | 85  | 82  | 87  | 84  | 82  | 87  | 84  | 82  | 86  | 84  | 82  | 81  | 81  | 81  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 883571 | 883571 | 883571 |
| 5°  | 744717 | 744994 | 744631 |
| 10° | 453812 | 451714 | 452763 |
| 15° | 159844 | 160540 | 165514 |
| 20° | 50236  | 51629  | 50529  |
| 25° | 18813  | 20580  | 19326  |
| 30° | 7278   | 10341  | 7617   |
| 35° | 2754   | 4604   | 2985   |
| 40° | 1484   | 1978   | 1484   |
| 45° | 536    | 926    | 658    |
| 50° | 295    | 429    | 295    |
| 55° | 330    | 330    | 330    |
| 60° | 172    | 172    | 172    |
| 65° | 204    | 204    | 204    |
| 70° | 252    | 252    | 252    |
| 75° | 0      | 0      | 333    |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 926 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 356.1  | 50.4      |
| 10°-20°   | 279.3  | 39.5      |
| 20°-30°   | 54.8   | 7.8       |
| 30°-40°   | 12.3   | 1.7       |
| 40°-50°   | 2.8    | 0.4       |
| 50°-60°   | 0.9    | 0.1       |
| 60°-70°   | 0.5    | 0.1       |
| 70°-80°   | 0.2    | 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°    | 690.2  | 97.6      |
| 0°-40°    | 702.6  | 99.4      |
| 0°-60°    | 706.2  | 99.9      |
| 0°-90°    | 706.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 706.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5130 | 5130  | 5130 | 5130  | 5130 |      |
| 5°  | 4308 | 4312  | 4309 | 4324  | 4307 | 357  |
| 15° | 896  | 900   | 900  | 920   | 928  | 279  |
| 25° | 99   | 106   | 108  | 107   | 102  | 52   |
| 35° | 13   | 16    | 22   | 16    | 14   | 10   |
| 45° | 2    | 3     | 4    | 3     | 3    | 2    |
| 55° | 1    | 1     | 1    | 1     | 1    | 1    |
| 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°    | 5130.4 | 5130.4 | 5130.4 | 5130.4 | 5130.4 |
| 1°    | 5088.8 | 5077.9 | 5090.5 | 5080.6 | 5082.8 |
| 2°    | 4957.0 | 4951.0 | 4967.4 | 4957.0 | 4962.5 |
| 3°    | 4773.8 | 4766.1 | 4778.1 | 4778.7 | 4794.0 |
| 4°    | 4555.0 | 4540.2 | 4558.2 | 4558.8 | 4561.5 |
| 5°    | 4307.7 | 4311.5 | 4309.3 | 4324.1 | 4307.2 |
| 6°    | 4029.8 | 4042.4 | 4026.0 | 4034.2 | 4010.7 |
| 7°    | 3719.1 | 3703.3 | 3695.1 | 3697.8 | 3714.2 |
| 8°    | 3376.1 | 3365.2 | 3377.2 | 3360.3 | 3348.8 |
| 9°    | 2994.9 | 2975.7 | 2988.9 | 2972.5 | 2956.0 |
| 10°   | 2595.0 | 2586.3 | 2583.0 | 2564.4 | 2589.0 |
| 11°   | 2194.1 | 2167.8 | 2180.9 | 2171.6 | 2198.4 |
| 12°   | 1818.8 | 1821.0 | 1795.3 | 1803.5 | 1806.8 |
| 13°   | 1480.2 | 1445.2 | 1449.6 | 1472.0 | 1475.8 |
| 14°   | 1148.2 | 1153.1 | 1154.7 | 1170.6 | 1179.9 |
| 15°   | 896.5  | 900.4  | 900.4  | 920.1  | 928.3  |
| 17.5° | 480.8  | 480.8  | 491.2  | 493.4  | 494.5  |
| 20°   | 274.1  | 275.7  | 281.7  | 281.2  | 275.7  |
| 22.5° | 164.1  | 167.4  | 170.7  | 167.4  | 164.1  |
| 25°   | 99.0   | 105.6  | 108.3  | 106.7  | 101.7  |
| 27.5° | 59.1   | 66.2   | 73.8   | 67.8   | 58.5   |
| 30°   | 36.6   | 40.5   | 52.0   | 41.6   | 38.3   |
| 32.5° | 20.2   | 26.3   | 35.6   | 27.4   | 20.8   |
| 35°   | 13.1   | 15.9   | 21.9   | 15.9   | 14.2   |
| 37.5° | 9.3    | 10.9   | 13.7   | 11.5   | 9.8    |
| 40°   | 6.6    | 7.7    | 8.8    | 8.2    | 6.6    |
| 42.5° | 4.4    | 5.5    | 6.0    | 5.5    | 4.4    |
| 45°   | 2.2    | 3.3    | 3.8    | 3.3    | 2.7    |
| 47.5° | 1.1    | 1.6    | 2.7    | 1.6    | 1.1    |
| 50°   | 1.1    | 1.1    | 1.6    | 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    | 0.5    | 1.1    | 0.5    |
| 60°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 62.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 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°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    |
| 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)