

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: P1317160

Luminaire Tested: LDSQA3D05R209827DE010 3LSQPHRL1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317160  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R209827DE010 3LSQPHRL1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , 3LSQPHRL1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

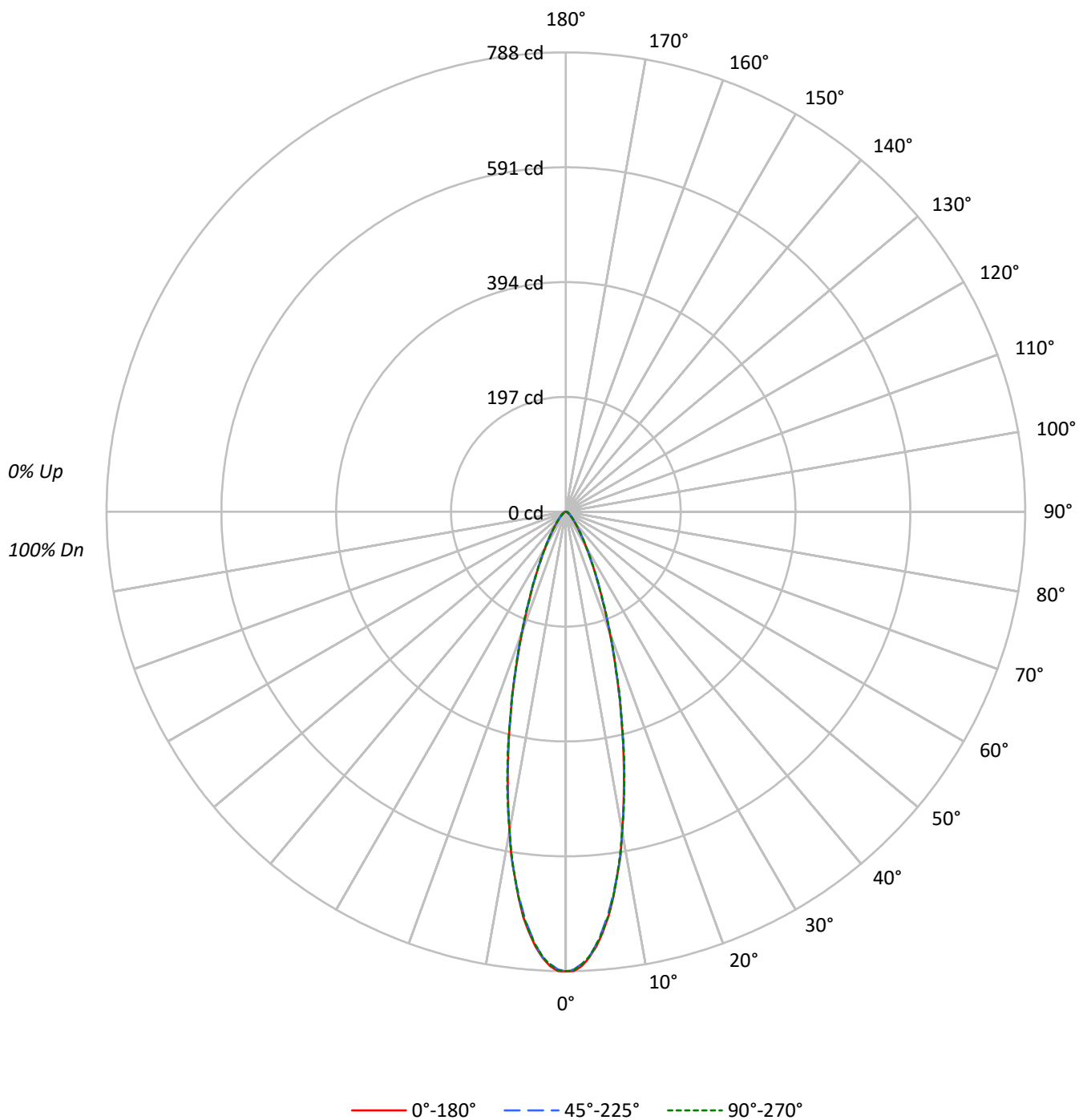
Lumens per Lamp: N/A  
Luminaire Lumens: 276.9 lumens  
Efficiency: N/A  
Efficacy: 38.5 lumens/watt  
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 |  | 101 | 100 | 99  |  | 98  |
| 2   | 109 | 104 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 97  | 94  |  | 96  | 94  | 92  |  | 94  |
| 3   | 104 | 98  | 94  | 90  | 102 | 97  | 93  | 89  | 94  | 91  | 88  |  | 92  | 89  | 87  |  | 90  |
| 4   | 100 | 93  | 88  | 84  | 98  | 92  | 87  | 84  | 90  | 86  | 83  |  | 88  | 84  | 82  |  | 86  |
| 5   | 96  | 88  | 83  | 79  | 94  | 87  | 82  | 79  | 86  | 81  | 78  |  | 84  | 80  | 77  |  | 82  |
| 6   | 92  | 84  | 79  | 75  | 90  | 83  | 78  | 75  | 82  | 77  | 74  |  | 80  | 77  | 74  |  | 79  |
| 7   | 88  | 80  | 75  | 71  | 87  | 80  | 75  | 71  | 78  | 74  | 71  |  | 77  | 73  | 70  |  | 76  |
| 8   | 85  | 77  | 72  | 68  | 84  | 76  | 71  | 68  | 75  | 71  | 68  |  | 74  | 70  | 67  |  | 73  |
| 9   | 82  | 74  | 69  | 65  | 81  | 73  | 68  | 65  | 72  | 68  | 65  |  | 71  | 67  | 65  |  | 71  |
| 10  | 79  | 71  | 66  | 62  | 78  | 70  | 66  | 62  | 70  | 65  | 62  |  | 69  | 65  | 62  |  | 68  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 135746 | 135746 | 135746 |
| 5°  | 125235 | 124526 | 124941 |
| 10° | 97181  | 97303  | 97303  |
| 15° | 65685  | 65988  | 65988  |
| 20° | 39899  | 40394  | 40596  |
| 25° | 23392  | 23734  | 23658  |
| 30° | 13642  | 13921  | 14000  |
| 35° | 8347   | 8557   | 8557   |
| 40° | 5418   | 5508   | 5576   |
| 45° | 3775   | 3873   | 3946   |
| 50° | 2760   | 2867   | 2867   |
| 55° | 2162   | 2282   | 2282   |
| 60° | 1894   | 1894   | 2032   |
| 65° | 1671   | 1671   | 1834   |
| 70° | 1561   | 1561   | 1561   |
| 75° | 1397   | 1397   | 1397   |
| 80° | 992    | 992    | 1389   |
| 85° | 593    | 593    | 1383   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3946 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 63.6   | 23.0      |
| 10°-20°   | 101.8  | 36.8      |
| 20°-30°   | 58.9   | 21.3      |
| 30°-40°   | 26.4   | 9.5       |
| 40°-50°   | 12.5   | 4.5       |
| 50°-60°   | 6.9    | 2.5       |
| 60°-70°   | 4.1    | 1.5       |
| 70°-80°   | 2.2    | 0.8       |
| 80°-90°   | 0.5    | 0.2       |
| 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°    | 224.3  | 81.0      |
| 0°-40°    | 250.7  | 90.5      |
| 0°-60°    | 270.1  | 97.5      |
| 0°-90°    | 276.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 276.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 788 | 788   | 788 | 788   | 788 |      |
| 5°  | 724 | 722   | 720 | 722   | 723 | 64   |
| 15° | 368 | 368   | 370 | 368   | 370 | 101  |
| 25° | 123 | 123   | 125 | 124   | 124 | 58   |
| 35° | 40  | 40    | 41  | 41    | 41  | 26   |
| 45° | 16  | 16    | 16  | 16    | 16  | 12   |
| 55° | 7   | 7     | 8   | 8     | 8   | 7    |
| 65° | 4   | 4     | 4   | 4     | 4   | 4    |
| 75° | 2   | 2     | 2   | 2     | 2   | 2    |
| 85° | 0   | 0     | 0   | 0     | 1   | 0    |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 788.2 | 788.2 | 788.2 | 788.2 | 788.2 |
| 1°    | 787.9 | 785.8 | 785.1 | 784.4 | 786.5 |
| 2°    | 779.9 | 777.5 | 776.1 | 776.8 | 777.2 |
| 3°    | 765.8 | 764.4 | 764.4 | 763.4 | 764.1 |
| 4°    | 747.5 | 744.8 | 744.8 | 745.1 | 745.1 |
| 5°    | 724.4 | 722.0 | 720.3 | 721.6 | 722.7 |
| 6°    | 698.5 | 695.4 | 694.1 | 694.4 | 696.8 |
| 7°    | 666.8 | 662.7 | 663.3 | 665.1 | 665.1 |
| 8°    | 630.9 | 630.6 | 631.3 | 630.6 | 631.3 |
| 9°    | 597.8 | 593.0 | 597.1 | 593.7 | 595.4 |
| 10°   | 555.7 | 555.4 | 556.4 | 557.4 | 556.4 |
| 12.5° | 459.8 | 461.6 | 462.2 | 460.9 | 464.0 |
| 15°   | 368.4 | 368.4 | 370.1 | 368.4 | 370.1 |
| 17.5° | 286.7 | 286.3 | 287.7 | 286.3 | 288.4 |
| 20°   | 217.7 | 220.1 | 220.4 | 220.4 | 221.5 |
| 22.5° | 164.2 | 164.2 | 165.6 | 165.9 | 165.2 |
| 25°   | 123.1 | 123.1 | 124.9 | 123.8 | 124.5 |
| 27.5° | 91.1  | 91.8  | 93.1  | 93.8  | 93.8  |
| 30°   | 68.6  | 69.0  | 70.0  | 70.4  | 70.4  |
| 32.5° | 51.7  | 52.4  | 53.1  | 53.5  | 53.8  |
| 35°   | 39.7  | 40.0  | 40.7  | 41.0  | 40.7  |
| 37.5° | 30.4  | 30.7  | 31.4  | 31.7  | 31.7  |
| 40°   | 24.1  | 24.1  | 24.5  | 24.8  | 24.8  |
| 42.5° | 19.0  | 19.3  | 19.3  | 19.7  | 19.7  |
| 45°   | 15.5  | 15.5  | 15.9  | 15.9  | 16.2  |
| 47.5° | 12.4  | 12.4  | 12.8  | 13.1  | 13.1  |
| 50°   | 10.3  | 10.3  | 10.7  | 10.7  | 10.7  |
| 52.5° | 8.6   | 8.6   | 9.0   | 9.0   | 9.0   |
| 55°   | 7.2   | 7.2   | 7.6   | 7.6   | 7.6   |
| 57.5° | 6.2   | 6.2   | 6.6   | 6.6   | 6.6   |
| 60°   | 5.5   | 5.5   | 5.5   | 5.5   | 5.9   |
| 62.5° | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   |
| 65°   | 4.1   | 4.1   | 4.1   | 4.1   | 4.5   |
| 67.5° | 3.4   | 3.4   | 3.4   | 3.4   | 3.8   |
| 70°   | 3.1   | 3.1   | 3.1   | 3.1   | 3.1   |
| 72.5° | 2.4   | 2.4   | 2.4   | 2.8   | 2.8   |
| 75°   | 2.1   | 2.1   | 2.1   | 2.1   | 2.1   |
| 77.5° | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   |
| 80°   | 1.0   | 1.0   | 1.0   | 1.4   | 1.4   |
| 82.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   |
| 85°   | 0.3   | 0.3   | 0.3   | 0.3   | 0.7   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.3   | 0.3   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)