

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: P1306802

Luminaire Tested: LDSQA3D05R209024DE010 3LSQPHRL1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1306802  
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: LDSQA3D05R209024DE010 3LSQPHRL1MMS  
Description: 3in Adjustable LED luminaire with, R20 optic, 2400K CCT AND, 90CRI , 3LSQPHRL1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

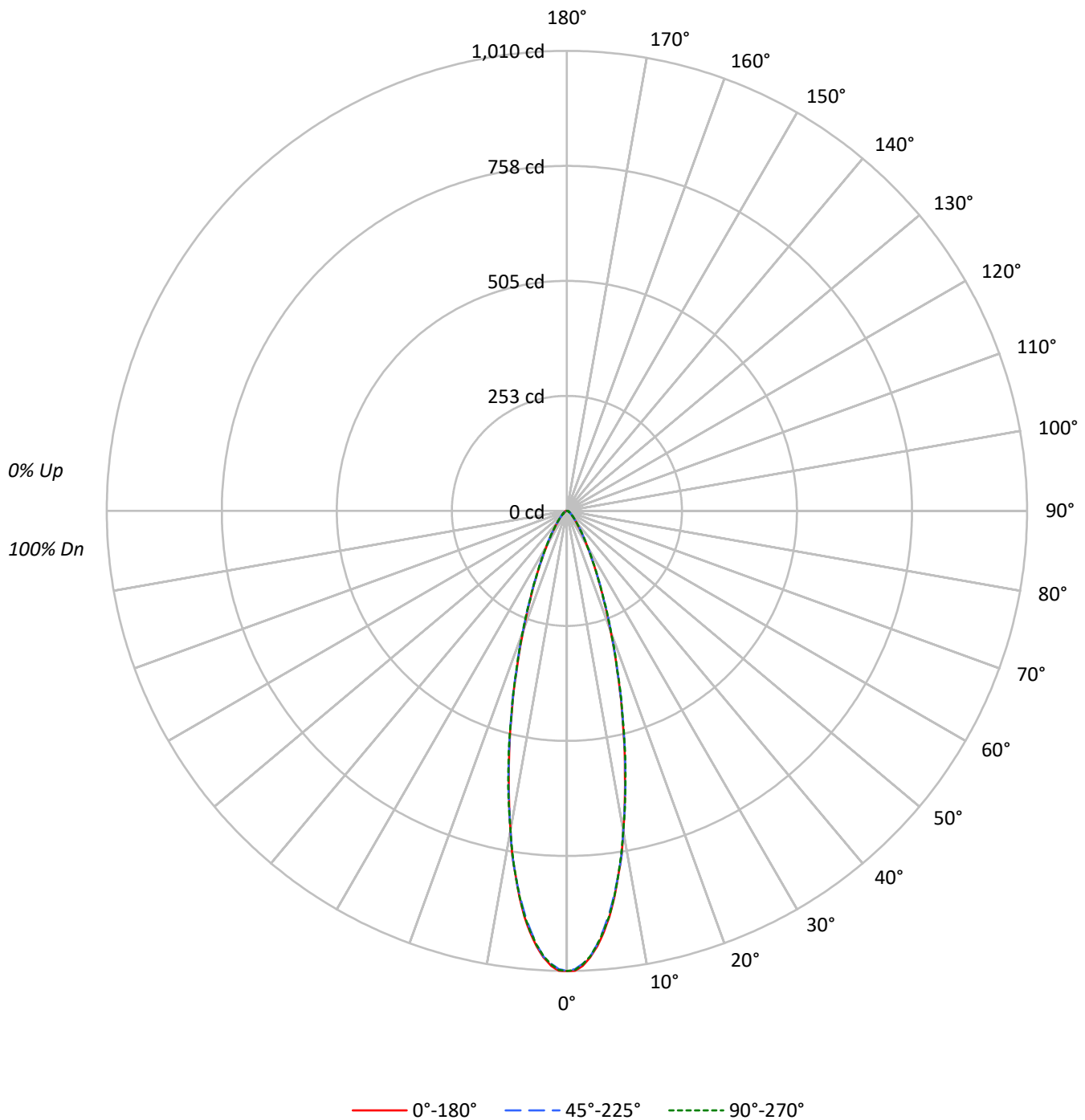
Lumens per Lamp: N/A  
Luminaire Lumens: 355.0 lumens  
Efficiency: N/A  
Efficacy: 49.3 lumens/watt  
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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°  | 173979 | 173979 | 173979 |
| 5°  | 160502 | 159586 | 160122 |
| 10° | 124549 | 124707 | 124707 |
| 15° | 84192  | 84585  | 84585  |
| 20° | 51134  | 51775  | 52014  |
| 25° | 29986  | 30404  | 30328  |
| 30° | 17500  | 17838  | 17938  |
| 35° | 10680  | 10975  | 10975  |
| 40° | 6947   | 7059   | 7149   |
| 45° | 4847   | 4944   | 5066   |
| 50° | 3563   | 3671   | 3671   |
| 55° | 2792   | 2913   | 2913   |
| 60° | 2446   | 2446   | 2583   |
| 65° | 2160   | 2160   | 2323   |
| 70° | 2014   | 2014   | 2014   |
| 75° | 1797   | 1797   | 1797   |
| 80° | 1289   | 1289   | 1785   |
| 85° | 790    | 790    | 1778   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5066 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 81.5   | 22.9      |
| 10°-20°   | 130.5  | 36.7      |
| 20°-30°   | 75.5   | 21.3      |
| 30°-40°   | 33.9   | 9.5       |
| 40°-50°   | 16.1   | 4.5       |
| 50°-60°   | 8.8    | 2.5       |
| 60°-70°   | 5.3    | 1.5       |
| 70°-80°   | 2.9    | 0.8       |
| 80°-90°   | 0.6    | 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°    | 287.4  | 81.0      |
| 0°-40°    | 321.3  | 90.5      |
| 0°-60°    | 346.2  | 97.5      |
| 0°-90°    | 355.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 355.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1010 | 1010  | 1010 | 1010  | 1010 |      |
| 5°  | 928  | 925   | 923  | 925   | 926  | 82   |
| 15° | 472  | 472   | 474  | 472   | 474  | 130  |
| 25° | 158  | 158   | 160  | 159   | 160  | 75   |
| 35° | 51   | 51    | 52   | 53    | 52   | 33   |
| 45° | 20   | 20    | 20   | 20    | 21   | 16   |
| 55° | 9    | 9     | 10   | 10    | 10   | 9    |
| 65° | 5    | 5     | 5    | 5     | 6    | 5    |
| 75° | 3    | 3     | 3    | 3     | 3    | 3    |
| 85° | 0    | 0     | 0    | 0     | 1    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1010.2 | 1010.2 | 1010.2 | 1010.2 | 1010.2 |
| 1°    | 1009.7 | 1007.1 | 1006.2 | 1005.3 | 1008.0 |
| 2°    | 999.6  | 996.5  | 994.7  | 995.6  | 996.0  |
| 3°    | 981.4  | 979.7  | 979.7  | 978.3  | 979.2  |
| 4°    | 958.0  | 954.5  | 954.5  | 954.9  | 954.9  |
| 5°    | 928.4  | 925.3  | 923.1  | 924.9  | 926.2  |
| 6°    | 895.2  | 891.3  | 889.5  | 889.9  | 893.0  |
| 7°    | 854.6  | 849.3  | 850.1  | 852.4  | 852.4  |
| 8°    | 808.6  | 808.1  | 809.0  | 808.1  | 809.0  |
| 9°    | 766.1  | 760.0  | 765.3  | 760.8  | 763.0  |
| 10°   | 712.2  | 711.8  | 713.1  | 714.4  | 713.1  |
| 12.5° | 589.3  | 591.5  | 592.4  | 590.6  | 594.6  |
| 15°   | 472.2  | 472.2  | 474.4  | 472.2  | 474.4  |
| 17.5° | 367.4  | 366.9  | 368.7  | 366.9  | 369.6  |
| 20°   | 279.0  | 282.1  | 282.5  | 282.5  | 283.8  |
| 22.5° | 210.4  | 210.4  | 212.2  | 212.6  | 211.8  |
| 25°   | 157.8  | 157.8  | 160.0  | 158.7  | 159.6  |
| 27.5° | 116.7  | 117.6  | 119.4  | 120.2  | 120.2  |
| 30°   | 88.0   | 88.4   | 89.7   | 90.2   | 90.2   |
| 32.5° | 66.3   | 67.2   | 68.1   | 68.5   | 69.0   |
| 35°   | 50.8   | 51.3   | 52.2   | 52.6   | 52.2   |
| 37.5° | 38.9   | 39.3   | 40.2   | 40.7   | 40.7   |
| 40°   | 30.9   | 30.9   | 31.4   | 31.8   | 31.8   |
| 42.5° | 24.3   | 24.8   | 24.8   | 25.2   | 25.2   |
| 45°   | 19.9   | 19.9   | 20.3   | 20.3   | 20.8   |
| 47.5° | 15.9   | 15.9   | 16.4   | 16.8   | 16.8   |
| 50°   | 13.3   | 13.3   | 13.7   | 13.7   | 13.7   |
| 52.5° | 11.1   | 11.1   | 11.5   | 11.5   | 11.5   |
| 55°   | 9.3    | 9.3    | 9.7    | 9.7    | 9.7    |
| 57.5° | 8.0    | 8.0    | 8.4    | 8.4    | 8.4    |
| 60°   | 7.1    | 7.1    | 7.1    | 7.1    | 7.5    |
| 62.5° | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    |
| 65°   | 5.3    | 5.3    | 5.3    | 5.3    | 5.7    |
| 67.5° | 4.4    | 4.4    | 4.4    | 4.4    | 4.9    |
| 70°   | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    |
| 72.5° | 3.1    | 3.1    | 3.1    | 3.5    | 3.5    |
| 75°   | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 77.5° | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 80°   | 1.3    | 1.3    | 1.3    | 1.8    | 1.8    |
| 82.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    |
| 85°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.9    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.4    | 0.4    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)