

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: P1311272

Luminaire Tested: LDSQA3D09R159040DE010 3LSQPHRL1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311272  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R159040DE010 3LSQPHRL1MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 90CRI , 3LSQPHRL1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

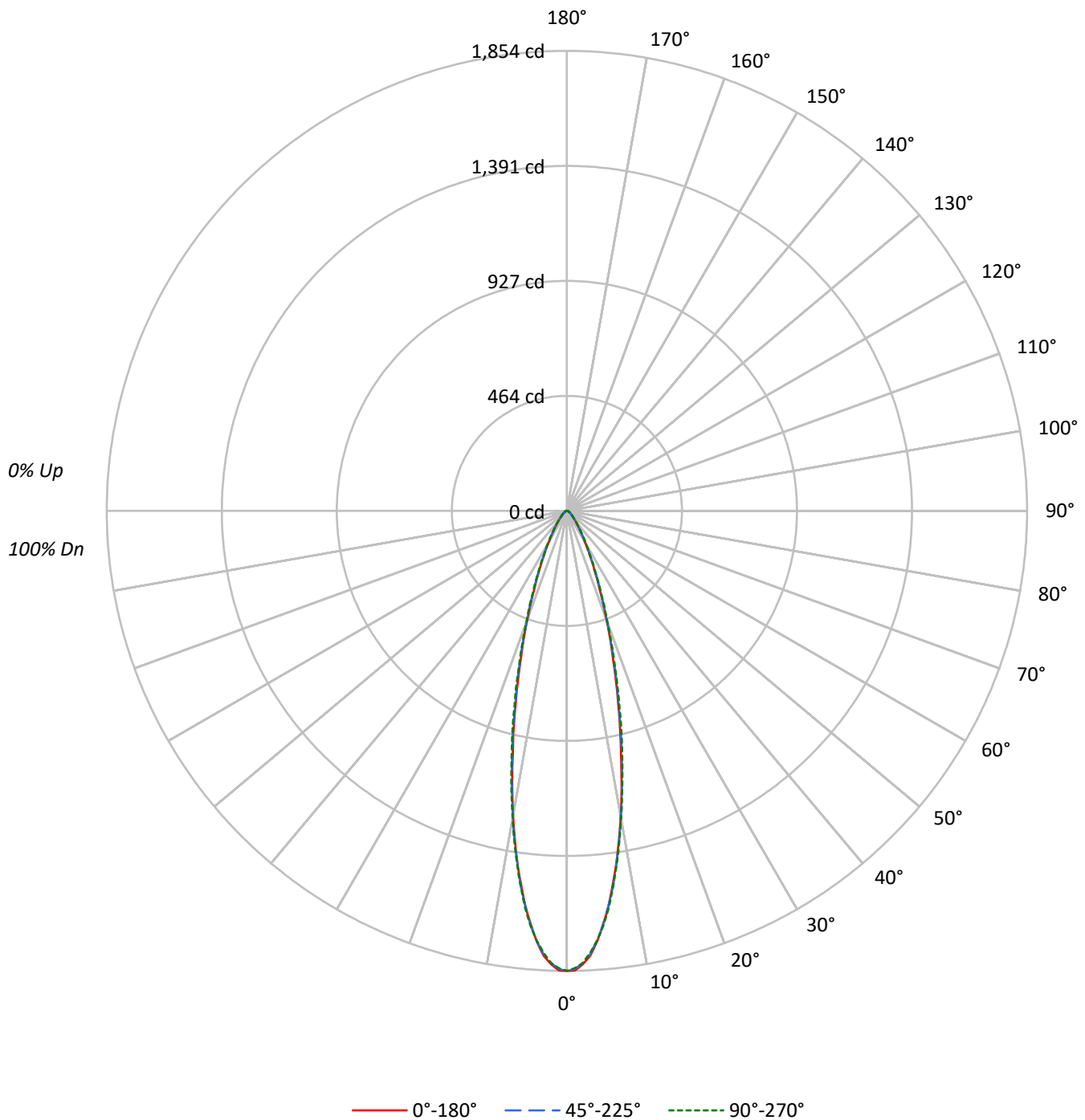
Lumens per Lamp: N/A  
Luminaire Lumens: 613.0 lumens  
Efficiency: N/A  
Efficacy: 55.2 lumens/watt  
Spacing Criteria (0/90/45): 0.45 / 0.46 / 0.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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  |  | 97  | 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  | 85  | 82  |  | 86  |
| 5   | 96  | 88  | 83  | 79  | 94  | 87  | 83  | 79  | 86  | 82  | 78  |  | 84  | 80  | 78  |  | 83  |
| 6   | 92  | 84  | 79  | 75  | 91  | 83  | 78  | 75  | 82  | 78  | 74  |  | 81  | 77  | 74  |  | 79  |
| 7   | 88  | 80  | 75  | 71  | 87  | 80  | 75  | 71  | 79  | 74  | 71  |  | 77  | 74  | 71  |  | 76  |
| 8   | 85  | 77  | 72  | 68  | 84  | 76  | 72  | 68  | 75  | 71  | 68  |  | 74  | 70  | 68  |  | 74  |
| 9   | 82  | 74  | 69  | 65  | 81  | 73  | 69  | 65  | 73  | 68  | 65  |  | 72  | 68  | 65  |  | 71  |
| 10  | 79  | 71  | 66  | 63  | 78  | 71  | 66  | 63  | 70  | 66  | 63  |  | 69  | 65  | 62  |  | 69  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 319249 | 319249 | 319249 |
| 5°  | 289160 | 289713 | 290111 |
| 10° | 218320 | 218862 | 219963 |
| 15° | 141604 | 143155 | 145955 |
| 20° | 85260  | 86268  | 87422  |
| 25° | 49806  | 50851  | 51611  |
| 30° | 29273  | 30208  | 30685  |
| 35° | 18039  | 18691  | 19027  |
| 40° | 11848  | 12208  | 12388  |
| 45° | 8232   | 8427   | 8622   |
| 50° | 6109   | 6323   | 6538   |
| 55° | 4954   | 5195   | 5195   |
| 60° | 4340   | 4340   | 4340   |
| 65° | 3831   | 3831   | 3831   |
| 70° | 3172   | 3575   | 3575   |
| 75° | 3127   | 3127   | 3127   |
| 80° | 2380   | 3075   | 3075   |
| 85° | 1581   | 1581   | 1581   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 8622 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 146.0  | 23.8      |
| 10°-20°   | 223.3  | 36.4      |
| 20°-30°   | 126.9  | 20.7      |
| 30°-40°   | 57.9   | 9.4       |
| 40°-50°   | 27.8   | 4.5       |
| 50°-60°   | 15.5   | 2.5       |
| 60°-70°   | 9.5    | 1.5       |
| 70°-80°   | 5.0    | 0.8       |
| 80°-90°   | 1.1    | 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°    | 496.2  | 80.9      |
| 0°-40°    | 554.1  | 90.4      |
| 0°-60°    | 597.4  | 97.5      |
| 0°-90°    | 613.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 613.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1854 | 1854  | 1854 | 1854  | 1854 |      |
| 5°  | 1673 | 1672  | 1676 | 1676  | 1678 | 146  |
| 15° | 794  | 798   | 803  | 814   | 819  | 220  |
| 25° | 262  | 262   | 268  | 270   | 272  | 124  |
| 35° | 86   | 87    | 89   | 90    | 90   | 56   |
| 45° | 34   | 34    | 35   | 35    | 35   | 27   |
| 55° | 16   | 16    | 17   | 17    | 17   | 15   |
| 65° | 9    | 9     | 9    | 9     | 9    | 9    |
| 75° | 5    | 5     | 5    | 5     | 5    | 5    |
| 85° | 1    | 1     | 1    | 1     | 1    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1853.7 | 1853.7 | 1853.7 | 1853.7 | 1853.7 |
| 1°    | 1852.1 | 1847.4 | 1845.8 | 1845.0 | 1843.4 |
| 2°    | 1828.5 | 1824.5 | 1823.8 | 1823.8 | 1823.0 |
| 3°    | 1795.4 | 1788.3 | 1789.1 | 1786.8 | 1784.4 |
| 4°    | 1739.5 | 1736.4 | 1738.0 | 1739.5 | 1736.4 |
| 5°    | 1672.6 | 1671.8 | 1675.8 | 1675.8 | 1678.1 |
| 6°    | 1603.4 | 1602.6 | 1600.2 | 1606.5 | 1609.7 |
| 7°    | 1515.2 | 1519.9 | 1526.2 | 1523.1 | 1525.4 |
| 8°    | 1434.9 | 1429.4 | 1431.8 | 1439.6 | 1440.4 |
| 9°    | 1340.5 | 1336.5 | 1346.8 | 1349.9 | 1350.7 |
| 10°   | 1248.4 | 1252.3 | 1251.5 | 1262.5 | 1257.8 |
| 12.5° | 1008.3 | 1014.6 | 1021.7 | 1026.4 | 1031.1 |
| 15°   | 794.2  | 798.1  | 802.9  | 813.9  | 818.6  |
| 17.5° | 610.8  | 615.5  | 620.3  | 629.7  | 631.3  |
| 20°   | 465.2  | 467.6  | 470.7  | 479.4  | 477.0  |
| 22.5° | 347.9  | 351.8  | 355.0  | 358.9  | 361.3  |
| 25°   | 262.1  | 262.1  | 267.6  | 270.0  | 271.6  |
| 27.5° | 195.2  | 196.8  | 200.7  | 203.9  | 203.1  |
| 30°   | 147.2  | 149.6  | 151.9  | 153.5  | 154.3  |
| 32.5° | 113.3  | 113.3  | 115.7  | 118.1  | 118.9  |
| 35°   | 85.8   | 87.4   | 88.9   | 90.5   | 90.5   |
| 37.5° | 66.9   | 67.7   | 69.3   | 70.1   | 70.1   |
| 40°   | 52.7   | 52.7   | 54.3   | 55.1   | 55.1   |
| 42.5° | 41.7   | 42.5   | 43.3   | 44.1   | 44.1   |
| 45°   | 33.8   | 33.8   | 34.6   | 35.4   | 35.4   |
| 47.5° | 27.5   | 27.5   | 28.3   | 29.1   | 29.1   |
| 50°   | 22.8   | 23.6   | 23.6   | 24.4   | 24.4   |
| 52.5° | 19.7   | 19.7   | 19.7   | 20.5   | 20.5   |
| 55°   | 16.5   | 16.5   | 17.3   | 17.3   | 17.3   |
| 57.5° | 14.2   | 14.2   | 14.2   | 15.0   | 15.0   |
| 60°   | 12.6   | 12.6   | 12.6   | 12.6   | 12.6   |
| 62.5° | 11.0   | 11.0   | 11.0   | 11.0   | 11.0   |
| 65°   | 9.4    | 9.4    | 9.4    | 9.4    | 9.4    |
| 67.5° | 7.9    | 7.9    | 7.9    | 8.7    | 8.7    |
| 70°   | 6.3    | 7.1    | 7.1    | 7.1    | 7.1    |
| 72.5° | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    |
| 75°   | 4.7    | 4.7    | 4.7    | 4.7    | 4.7    |
| 77.5° | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    |
| 80°   | 2.4    | 3.1    | 3.1    | 3.1    | 3.1    |
| 82.5° | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 85°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)