

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: P1309120

Luminaire Tested: LDSQA3D09R459030DE010 3LSQCDR1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309120  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-32)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R459030DE010 3LSQCDR1MMS  
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , 3LSQCDR1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

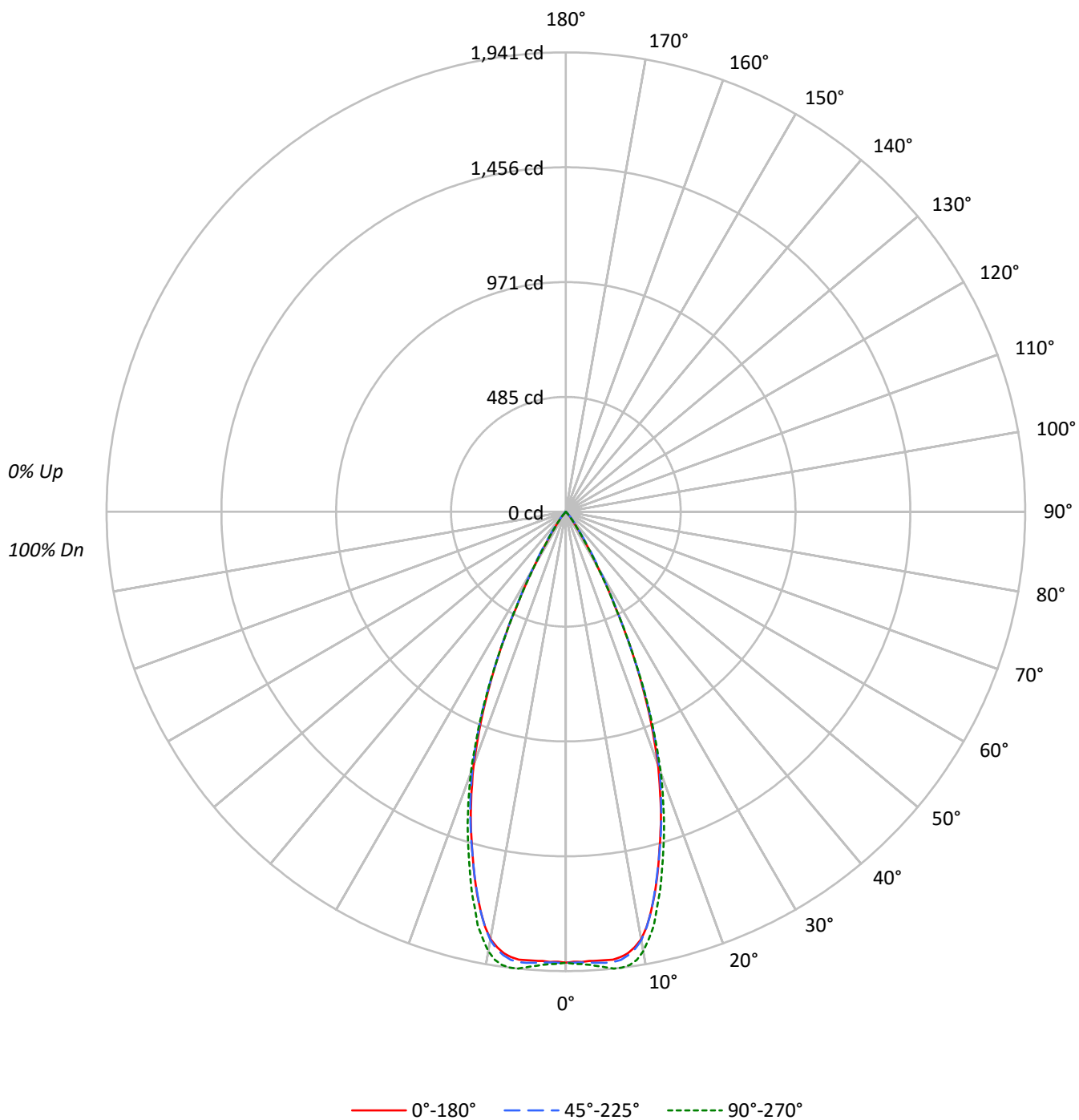
Lumens per Lamp: N/A  
Luminaire Lumens: 985.0 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Spacing Criteria (0/90/45): 0.72 / 0.74 / 0.67  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 97  | 98  | 95  |
| 2   | 110 | 106 | 103 | 100 | 108 | 104 | 101 | 99  | 101 | 99  | 96  | 98  | 96  | 94  | 95  | 94  | 92  | 92  | 94  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 97  | 93  | 91  | 94  | 92  | 89  | 92  | 90  | 88  | 88  | 90  | 87  |
| 4   | 102 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 89  | 86  | 90  | 87  | 85  | 89  | 86  | 84  | 84  | 86  | 83  |
| 5   | 98  | 91  | 86  | 83  | 96  | 90  | 86  | 82  | 88  | 85  | 82  | 87  | 83  | 81  | 85  | 82  | 80  | 80  | 82  | 79  |
| 6   | 94  | 87  | 82  | 78  | 93  | 86  | 81  | 78  | 85  | 81  | 78  | 83  | 80  | 77  | 82  | 79  | 77  | 77  | 79  | 75  |
| 7   | 91  | 83  | 78  | 75  | 89  | 82  | 78  | 74  | 81  | 77  | 74  | 80  | 76  | 74  | 79  | 76  | 73  | 73  | 76  | 72  |
| 8   | 87  | 79  | 75  | 71  | 86  | 79  | 74  | 71  | 78  | 74  | 71  | 77  | 73  | 70  | 76  | 73  | 70  | 70  | 73  | 69  |
| 9   | 84  | 76  | 71  | 68  | 83  | 76  | 71  | 68  | 75  | 71  | 68  | 74  | 70  | 68  | 73  | 70  | 67  | 67  | 70  | 66  |
| 10  | 81  | 73  | 68  | 65  | 80  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 67  | 65  | 71  | 67  | 65  | 65  | 67  | 64  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 328119 | 328119 | 328119 |
| 5°  | 328853 | 330755 | 334057 |
| 10° | 320624 | 321271 | 329718 |
| 15° | 270496 | 270621 | 279500 |
| 20° | 208806 | 211757 | 215239 |
| 25° | 129541 | 129674 | 130510 |
| 30° | 53435  | 56796  | 52560  |
| 35° | 16630  | 20310  | 16000  |
| 40° | 5103   | 7082   | 4766   |
| 45° | 365    | 2679   | 365    |
| 50° | 0      | 402    | 0      |
| 55° | 0      | 0      | 0      |
| 60° | 0      | 0      | 0      |
| 65° | 0      | 0      | 0      |
| 70° | 0      | 0      | 0      |
| 75° | 0      | 0      | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 2679 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 181.3  | 18.4      |
| 10°-20°   | 421.6  | 42.8      |
| 20°-30°   | 309.3  | 31.4      |
| 30°-40°   | 66.5   | 6.7       |
| 40°-50°   | 6.3    | 0.6       |
| 50°-60°   | 0.0    | 0.0       |
| 60°-70°   | 0.0    | 0.0       |
| 70°-80°   | 0.0    | 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°    | 912.2  | 92.6      |
| 0°-40°    | 978.6  | 99.4      |
| 0°-60°    | 985.0  | 100.0     |
| 0°-90°    | 985.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 985.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1905 | 1905  | 1905 | 1905  | 1905 |      |
| 5°  | 1902 | 1907  | 1913 | 1926  | 1932 | 180  |
| 15° | 1517 | 1514  | 1518 | 1542  | 1568 | 418  |
| 25° | 682  | 680   | 682  | 682   | 687  | 306  |
| 35° | 79   | 85    | 97   | 83    | 76   | 62   |
| 45° | 2    | 4     | 11   | 4     | 2    | 4    |
| 55° | 0    | 0     | 0    | 0     | 0    | 0    |
| 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    | 0    |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1905.2 | 1905.2 | 1905.2 | 1905.2 | 1905.2 |
| 1°    | 1901.5 | 1905.9 | 1905.9 | 1908.8 | 1910.3 |
| 2°    | 1903.0 | 1905.9 | 1905.2 | 1910.3 | 1912.5 |
| 3°    | 1900.8 | 1905.9 | 1907.4 | 1913.2 | 1916.9 |
| 4°    | 1901.5 | 1905.9 | 1910.3 | 1919.1 | 1924.2 |
| 5°    | 1902.2 | 1907.4 | 1913.2 | 1926.4 | 1932.3 |
| 6°    | 1903.0 | 1906.6 | 1913.2 | 1930.1 | 1941.0 |
| 7°    | 1895.6 | 1900.8 | 1908.1 | 1929.3 | 1941.0 |
| 8°    | 1883.9 | 1886.9 | 1892.7 | 1920.5 | 1934.4 |
| 9°    | 1862.0 | 1861.2 | 1870.0 | 1900.8 | 1916.9 |
| 10°   | 1833.4 | 1824.6 | 1837.1 | 1867.8 | 1885.4 |
| 11°   | 1787.3 | 1777.8 | 1788.7 | 1821.7 | 1838.5 |
| 12°   | 1727.2 | 1727.2 | 1729.4 | 1758.7 | 1788.0 |
| 13°   | 1663.5 | 1656.2 | 1660.6 | 1693.6 | 1714.1 |
| 14°   | 1593.2 | 1585.9 | 1590.3 | 1615.2 | 1647.4 |
| 15°   | 1517.1 | 1514.2 | 1517.8 | 1542.0 | 1567.6 |
| 17.5° | 1336.2 | 1329.7 | 1342.8 | 1367.0 | 1380.2 |
| 20°   | 1139.3 | 1150.3 | 1155.4 | 1170.8 | 1174.4 |
| 22.5° | 913.0  | 924.8  | 932.1  | 934.3  | 936.5  |
| 25°   | 681.7  | 679.5  | 682.4  | 682.4  | 686.8  |
| 27.5° | 448.1  | 448.1  | 456.2  | 451.0  | 445.9  |
| 30°   | 268.7  | 279.7  | 285.6  | 276.0  | 264.3  |
| 32.5° | 146.4  | 157.4  | 166.9  | 153.0  | 142.8  |
| 35°   | 79.1   | 84.9   | 96.6   | 82.7   | 76.1   |
| 37.5° | 43.2   | 48.3   | 55.6   | 46.9   | 43.2   |
| 40°   | 22.7   | 27.8   | 31.5   | 27.8   | 21.2   |
| 42.5° | 7.3    | 13.9   | 18.3   | 13.9   | 6.6    |
| 45°   | 1.5    | 4.4    | 11.0   | 4.4    | 1.5    |
| 47.5° | 0.0    | 0.7    | 5.1    | 0.7    | 0.0    |
| 50°   | 0.0    | 0.0    | 1.5    | 0.0    | 0.0    |
| 52.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 55°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)