

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: IRiS

Report Number: P1305794

Luminaire Tested: P3SQASS09R459024DE010 E3SQCD1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1305794  
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: IRiS  
Catalog Number: P3SQASS09R459024DE010 E3SQCD1MMS  
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , E3SQCD1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

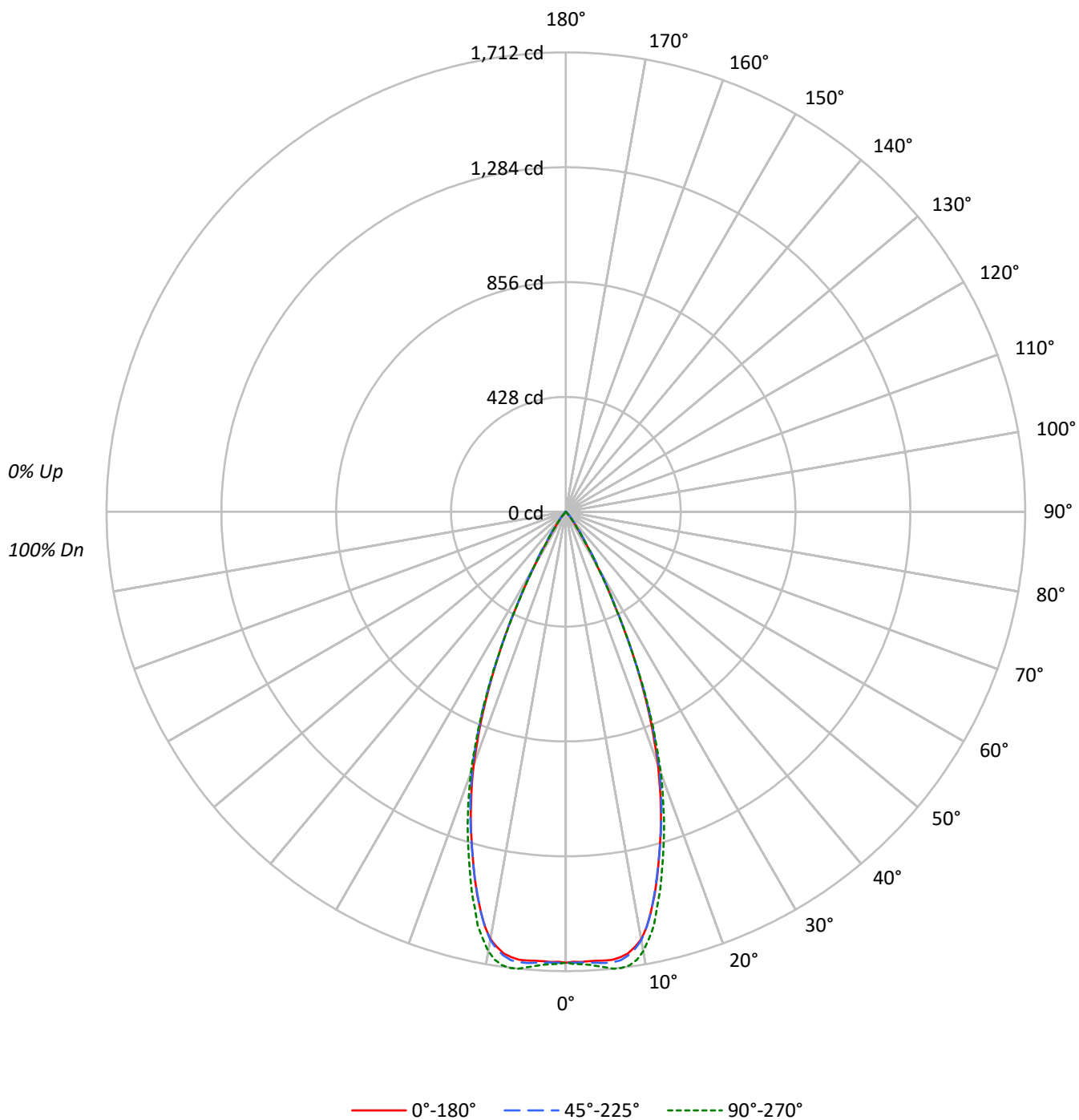
Lumens per Lamp: N/A  
Luminaire Lumens: 869.0 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Spacing Criteria (0/90/45): 0.72 / 0.74 / 0.67  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 289472 | 289472 | 289472 |
| 5°  | 290128 | 291805 | 294709 |
| 10° | 282868 | 283427 | 290894 |
| 15° | 238634 | 238759 | 246586 |
| 20° | 184210 | 186813 | 189892 |
| 25° | 114282 | 114396 | 115137 |
| 30° | 47151  | 50094  | 46375  |
| 35° | 14675  | 17934  | 14128  |
| 40° | 4496   | 6250   | 4204   |
| 45° | 317    | 2363   | 317    |
| 50° | 0      | 348    | 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: 2363 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 160.0  | 18.4      |
| 10°-20°   | 371.9  | 42.8      |
| 20°-30°   | 272.8  | 31.4      |
| 30°-40°   | 58.6   | 6.7       |
| 40°-50°   | 5.6    | 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°    | 804.7  | 92.6      |
| 0°-40°    | 863.4  | 99.4      |
| 0°-60°    | 869.0  | 100.0     |
| 0°-90°    | 869.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 869.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1681 | 1681  | 1681 | 1681  | 1681 |      |
| 5°  | 1678 | 1683  | 1688 | 1700  | 1705 | 159  |
| 15° | 1338 | 1336  | 1339 | 1360  | 1383 | 369  |
| 25° | 601  | 600   | 602  | 602   | 606  | 270  |
| 35° | 70   | 75    | 85   | 73    | 67   | 55   |
| 45° | 1    | 4     | 10   | 4     | 1    | 3    |
| 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    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1680.8 | 1680.8 | 1680.8 | 1680.8 | 1680.8 |
| 1°    | 1677.6 | 1681.4 | 1681.4 | 1684.0 | 1685.3 |
| 2°    | 1678.9 | 1681.4 | 1680.8 | 1685.3 | 1687.3 |
| 3°    | 1676.9 | 1681.4 | 1682.7 | 1687.9 | 1691.1 |
| 4°    | 1677.6 | 1681.4 | 1685.3 | 1693.1 | 1697.6 |
| 5°    | 1678.2 | 1682.7 | 1687.9 | 1699.5 | 1704.7 |
| 6°    | 1678.9 | 1682.1 | 1687.9 | 1702.8 | 1712.4 |
| 7°    | 1672.4 | 1676.9 | 1683.4 | 1702.1 | 1712.4 |
| 8°    | 1662.1 | 1664.6 | 1669.8 | 1694.4 | 1706.6 |
| 9°    | 1642.7 | 1642.0 | 1649.8 | 1676.9 | 1691.1 |
| 10°   | 1617.5 | 1609.7 | 1620.7 | 1647.9 | 1663.4 |
| 11°   | 1576.8 | 1568.4 | 1578.1 | 1607.2 | 1622.0 |
| 12°   | 1523.8 | 1523.8 | 1525.8 | 1551.6 | 1577.4 |
| 13°   | 1467.6 | 1461.2 | 1465.0 | 1494.1 | 1512.2 |
| 14°   | 1405.6 | 1399.2 | 1403.0 | 1425.0 | 1453.4 |
| 15°   | 1338.4 | 1335.9 | 1339.1 | 1360.4 | 1383.0 |
| 17.5° | 1178.9 | 1173.1 | 1184.7 | 1206.0 | 1217.6 |
| 20°   | 1005.1 | 1014.8 | 1019.3 | 1032.9 | 1036.1 |
| 22.5° | 805.5  | 815.9  | 822.3  | 824.2  | 826.2  |
| 25°   | 601.4  | 599.5  | 602.0  | 602.0  | 605.9  |
| 27.5° | 395.3  | 395.3  | 402.4  | 397.9  | 393.4  |
| 30°   | 237.1  | 246.8  | 251.9  | 243.5  | 233.2  |
| 32.5° | 129.2  | 138.9  | 147.3  | 135.0  | 126.0  |
| 35°   | 69.8   | 74.9   | 85.3   | 73.0   | 67.2   |
| 37.5° | 38.1   | 42.6   | 49.1   | 41.3   | 38.1   |
| 40°   | 20.0   | 24.5   | 27.8   | 24.5   | 18.7   |
| 42.5° | 6.5    | 12.3   | 16.1   | 12.3   | 5.8    |
| 45°   | 1.3    | 3.9    | 9.7    | 3.9    | 1.3    |
| 47.5° | 0.0    | 0.6    | 4.5    | 0.6    | 0.0    |
| 50°   | 0.0    | 0.0    | 1.3    | 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)