

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: P1308225

Luminaire Tested: P3SQAS17R559030DE010 E3SQCA451MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308225  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS17R559030DE010 E3SQCA451MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 90CRI , E3SQCA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

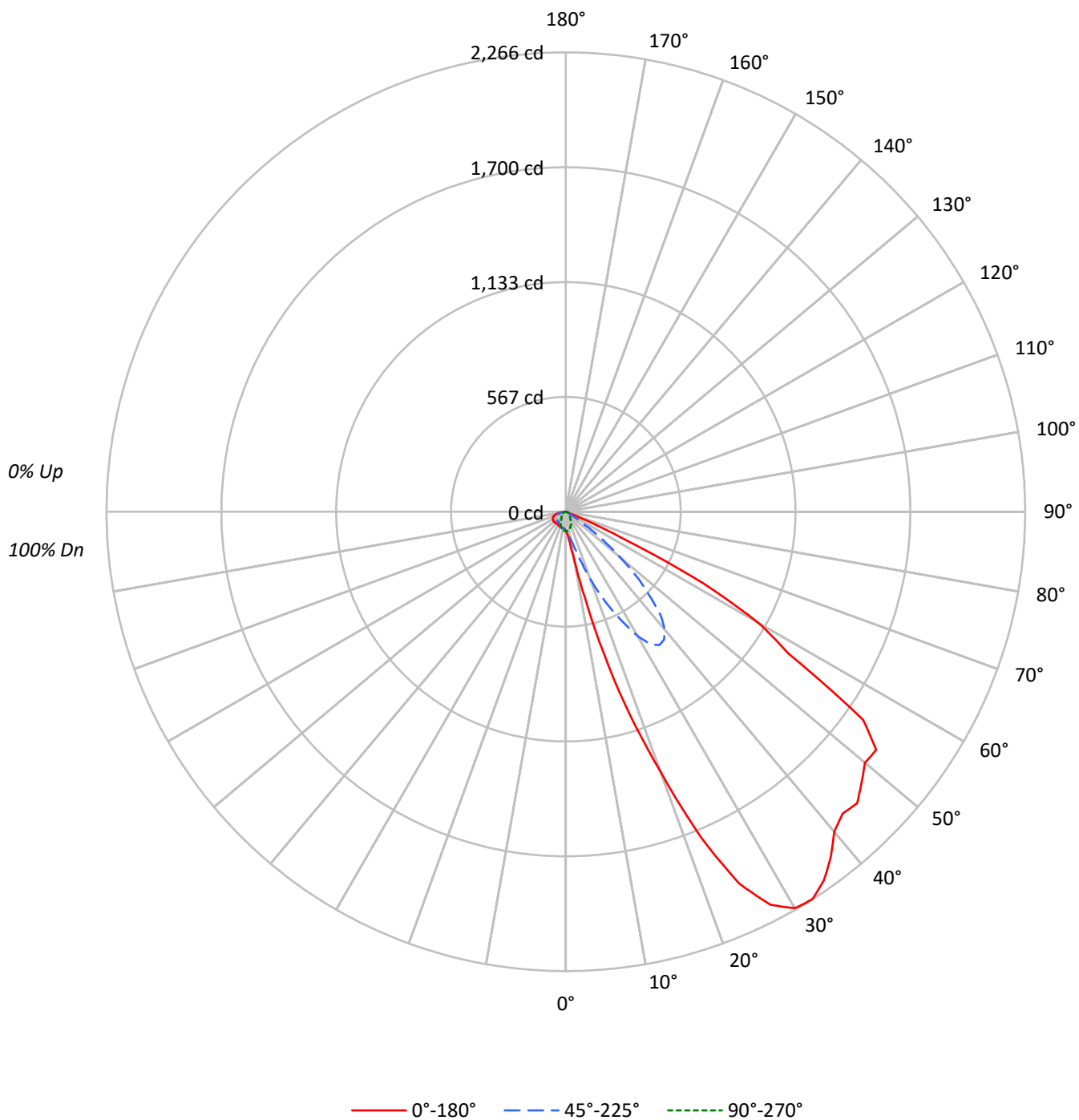
Lumens per Lamp: N/A  
Luminaire Lumens: 1457.0 lumens  
Efficiency: N/A  
Efficacy: 68.7 lumens/watt  
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.2  
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  |     |    | 0  |
| 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 | 100 |    |    |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 99  | 97  | 94  | 95  | 93  | 91  | 92  | 90  | 88  | 86  |    |    |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 73  |    |    |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 67  | 77  | 71  | 65  | 74  | 69  | 64  | 72  | 67  | 63  | 61  |    |    |
| 4   | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 65  | 59  | 54  | 63  | 58  | 54  | 51  |    |    |
| 5   | 76  | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 60  | 52  | 47  | 58  | 51  | 46  | 56  | 50  | 46  | 43  |    |    |
| 6   | 69  | 56  | 47  | 40  | 68  | 55  | 46  | 40  | 53  | 46  | 40  | 51  | 45  | 39  | 50  | 44  | 39  | 37  |    |    |
| 7   | 64  | 50  | 41  | 35  | 62  | 49  | 41  | 35  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 38  | 34  | 32  |    |    |
| 8   | 59  | 45  | 36  | 30  | 57  | 44  | 36  | 30  | 43  | 35  | 30  | 41  | 35  | 29  | 40  | 34  | 29  | 27  |    |    |
| 9   | 54  | 40  | 32  | 26  | 53  | 40  | 32  | 26  | 39  | 31  | 26  | 38  | 31  | 26  | 36  | 30  | 26  | 24  |    |    |
| 10  | 50  | 37  | 28  | 23  | 49  | 36  | 28  | 23  | 35  | 28  | 23  | 34  | 27  | 23  | 33  | 27  | 23  | 21  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 16189  | 16189  | 16189 | 16189 | 16189 |
| 5°  | 20694  | 18913  | 16251 | 15127 | 14695 |
| 10° | 42093  | 24081  | 15757 | 14410 | 14410 |
| 15° | 129230 | 36961  | 14692 | 13996 | 14460 |
| 20° | 249859 | 64641  | 13214 | 13691 | 14387 |
| 25° | 384557 | 100543 | 11497 | 13207 | 14442 |
| 30° | 449038 | 140558 | 9466  | 13065 | 14855 |
| 35° | 466618 | 168890 | 7842  | 12993 | 15432 |
| 40° | 463086 | 170459 | 7239  | 13602 | 16794 |
| 45° | 495084 | 141094 | 6893  | 14735 | 18194 |
| 50° | 516008 | 93133  | 6886  | 15862 | 20363 |
| 55° | 537287 | 40595  | 6966  | 17385 | 22429 |
| 60° | 379579 | 9300   | 7096  | 19082 | 25282 |
| 65° | 123803 | 3138   | 6805  | 20457 | 28322 |
| 70° | 3877   | 3223   | 7150  | 22055 | 32428 |
| 75° | 3394   | 3394   | 5989  | 23157 | 35999 |
| 80° | 2579   | 3868   | 6347  | 23010 | 38283 |
| 85° | 2569   | 5138   | 7707  | 22922 | 38137 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 545925 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 10.0   | 0.7       |
| 10°-20°   | 61.9   | 4.2       |
| 20°-30°   | 207.4  | 14.2      |
| 30°-40°   | 340.6  | 23.4      |
| 40°-50°   | 379.9  | 26.1      |
| 50°-60°   | 319.7  | 21.9      |
| 60°-70°   | 108.5  | 7.4       |
| 70°-80°   | 21.2   | 1.5       |
| 80°-90°   | 8.0    | 0.5       |
| 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       |
| 0°-30°    | 279.2  | 19.2      |
| 0°-40°    | 619.8  | 42.5      |
| 0°-60°    | 1319.4 | 90.6      |
| 0°-90°    | 1457.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1457.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 94   | 94  | 94  | 94   | 94   |      |
| 5°  | 120  | 109 | 94  | 88   | 85   | 15   |
| 15° | 725  | 207 | 82  | 78   | 81   | 230  |
| 25° | 2024 | 529 | 60  | 70   | 76   | 909  |
| 35° | 2219 | 803 | 37  | 62   | 73   | 1378 |
| 45° | 2033 | 579 | 28  | 60   | 75   | 1552 |
| 55° | 1789 | 135 | 23  | 58   | 75   | 1457 |
| 65° | 304  | 8   | 17  | 50   | 70   | 411  |
| 75° | 5    | 5   | 9   | 35   | 54   | 5    |
| 85° | 1    | 3   | 4   | 12   | 19   | 2    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 45°   | 67.5° | 90°  | 112.5° | 135° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|------|--------|------|
| 0°    | 94.0   | 94.0   | 94.0   | 94.0   | 94.0   | 94.0   | 94.0  | 94.0  | 94.0 | 94.0   | 94.0 |
| 2.5°  | 103.0  | 103.0  | 103.0  | 103.0  | 103.0  | 103.0  | 101.7 | 97.8  | 95.3 | 91.4   | 90.1 |
| 5°    | 119.7  | 119.7  | 119.7  | 118.4  | 118.4  | 115.9  | 109.4 | 100.4 | 94.0 | 88.8   | 87.5 |
| 7.5°  | 154.5  | 153.2  | 150.6  | 149.3  | 145.5  | 144.2  | 121.0 | 103.0 | 92.7 | 86.3   | 85.0 |
| 10°   | 240.7  | 238.2  | 234.3  | 220.1  | 207.3  | 198.3  | 137.7 | 104.3 | 90.1 | 83.7   | 82.4 |
| 12.5° | 433.8  | 428.7  | 409.4  | 379.8  | 343.7  | 325.7  | 164.8 | 105.6 | 86.3 | 81.1   | 81.1 |
| 15°   | 724.8  | 718.3  | 682.3  | 641.1  | 575.4  | 539.4  | 207.3 | 104.3 | 82.4 | 77.2   | 78.5 |
| 17.5° | 1046.6 | 1028.6 | 991.3  | 937.2  | 848.4  | 805.9  | 270.3 | 101.7 | 77.2 | 74.7   | 77.2 |
| 20°   | 1363.3 | 1358.2 | 1296.4 | 1223.0 | 1113.6 | 1056.9 | 352.7 | 97.8  | 72.1 | 70.8   | 74.7 |
| 22.5° | 1734.1 | 1712.2 | 1646.5 | 1568.0 | 1417.4 | 1342.7 | 441.6 | 92.7  | 66.9 | 66.9   | 72.1 |
| 25°   | 2023.7 | 1998.0 | 1946.5 | 1855.1 | 1712.2 | 1632.4 | 529.1 | 86.3  | 60.5 | 63.1   | 69.5 |
| 27.5° | 2185.9 | 2156.3 | 2117.7 | 2039.2 | 1928.4 | 1857.6 | 616.6 | 78.5  | 54.1 | 59.2   | 66.9 |
| 30°   | 2258.0 | 2250.3 | 2222.0 | 2164.0 | 2062.3 | 1999.2 | 706.8 | 69.5  | 47.6 | 55.4   | 65.7 |
| 32.5° | 2265.7 | 2269.6 | 2258.0 | 2220.7 | 2143.4 | 2089.4 | 773.7 | 61.8  | 42.5 | 52.8   | 63.1 |
| 35°   | 2219.4 | 2233.5 | 2241.3 | 2225.8 | 2175.6 | 2131.8 | 803.3 | 52.8  | 37.3 | 50.2   | 61.8 |
| 37.5° | 2147.3 | 2173.0 | 2198.8 | 2202.7 | 2171.8 | 2143.4 | 795.6 | 45.1  | 34.8 | 48.9   | 61.8 |
| 40°   | 2059.8 | 2082.9 | 2135.7 | 2169.2 | 2158.9 | 2138.3 | 758.2 | 37.3  | 32.2 | 46.3   | 60.5 |
| 42.5° | 2019.8 | 2025.0 | 2081.6 | 2138.3 | 2135.7 | 2119.0 | 692.6 | 29.6  | 29.6 | 46.3   | 60.5 |
| 45°   | 2032.7 | 2009.5 | 2046.9 | 2112.5 | 2108.7 | 2086.8 | 579.3 | 23.2  | 28.3 | 45.1   | 60.5 |
| 47.5° | 1978.7 | 1946.5 | 2009.5 | 2086.8 | 2072.6 | 2040.4 | 478.9 | 16.7  | 27.0 | 43.8   | 59.2 |
| 50°   | 1925.9 | 1920.7 | 1969.6 | 2008.3 | 1989.0 | 1970.9 | 347.6 | 12.9  | 25.7 | 42.5   | 59.2 |
| 52.5° | 1929.7 | 1920.7 | 1925.9 | 1924.6 | 1886.0 | 1866.7 | 238.2 | 10.3  | 24.5 | 41.2   | 59.2 |
| 55°   | 1789.4 | 1761.1 | 1734.1 | 1741.8 | 1744.4 | 1731.5 | 135.2 | 9.0   | 23.2 | 41.2   | 57.9 |
| 57.5° | 1300.2 | 1292.5 | 1322.1 | 1405.8 | 1471.4 | 1479.2 | 65.7  | 9.0   | 21.9 | 39.9   | 56.6 |
| 60°   | 1102.0 | 1096.8 | 1098.1 | 1122.6 | 1157.3 | 1135.4 | 27.0  | 9.0   | 20.6 | 38.6   | 55.4 |
| 62.5° | 759.5  | 809.7  | 830.3  | 887.0  | 863.8  | 832.9  | 10.3  | 10.3  | 19.3 | 36.0   | 54.1 |
| 65°   | 303.8  | 302.5  | 330.8  | 357.9  | 350.2  | 327.0  | 7.7   | 9.0   | 16.7 | 33.5   | 50.2 |
| 67.5° | 70.8   | 64.4   | 55.4   | 47.6   | 39.9   | 32.2   | 7.7   | 9.0   | 15.4 | 30.9   | 47.6 |
| 70°   | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 6.4    | 6.4   | 9.0   | 14.2 | 28.3   | 43.8 |
| 72.5° | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4   | 7.7   | 11.6 | 24.5   | 39.9 |
| 75°   | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    | 5.1   | 6.4   | 9.0  | 20.6   | 34.8 |
| 77.5° | 3.9    | 3.9    | 3.9    | 5.1    | 3.9    | 5.1    | 5.1   | 6.4   | 7.7  | 16.7   | 29.6 |
| 80°   | 2.6    | 2.6    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9   | 5.1   | 6.4  | 14.2   | 23.2 |
| 82.5° | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 3.9   | 3.9   | 5.1  | 10.3   | 16.7 |
| 85°   | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 2.6    | 2.6   | 3.9   | 3.9  | 7.7    | 11.6 |
| 87.5° | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 2.6   | 2.6   | 3.9  | 3.9    | 5.1  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0  | 0.0    | 0.0  |

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**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 0°    | 94.0   | 94.0 |
| 2.5°  | 88.8   | 88.8 |
| 5°    | 86.3   | 85.0 |
| 7.5°  | 83.7   | 83.7 |
| 10°   | 82.4   | 82.4 |
| 12.5° | 81.1   | 82.4 |
| 15°   | 81.1   | 81.1 |
| 17.5° | 78.5   | 79.8 |
| 20°   | 77.2   | 78.5 |
| 22.5° | 76.0   | 77.2 |
| 25°   | 74.7   | 76.0 |
| 27.5° | 73.4   | 74.7 |
| 30°   | 72.1   | 74.7 |
| 32.5° | 70.8   | 73.4 |
| 35°   | 70.8   | 73.4 |
| 37.5° | 70.8   | 74.7 |
| 40°   | 70.8   | 74.7 |
| 42.5° | 70.8   | 74.7 |
| 45°   | 70.8   | 74.7 |
| 47.5° | 70.8   | 74.7 |
| 50°   | 70.8   | 76.0 |
| 52.5° | 70.8   | 76.0 |
| 55°   | 70.8   | 74.7 |
| 57.5° | 69.5   | 74.7 |
| 60°   | 69.5   | 73.4 |
| 62.5° | 68.2   | 72.1 |
| 65°   | 65.7   | 69.5 |
| 67.5° | 63.1   | 68.2 |
| 70°   | 59.2   | 64.4 |
| 72.5° | 55.4   | 59.2 |
| 75°   | 50.2   | 54.1 |
| 77.5° | 43.8   | 46.3 |
| 80°   | 34.8   | 38.6 |
| 82.5° | 27.0   | 29.6 |
| 85°   | 18.0   | 19.3 |
| 87.5° | 7.7    | 9.0  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)