

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: P1308240

Luminaire Tested: P3SQAS17R659030DE010 E3SQCA451MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308240  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS17R659030DE010 E3SQCA451MMS  
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

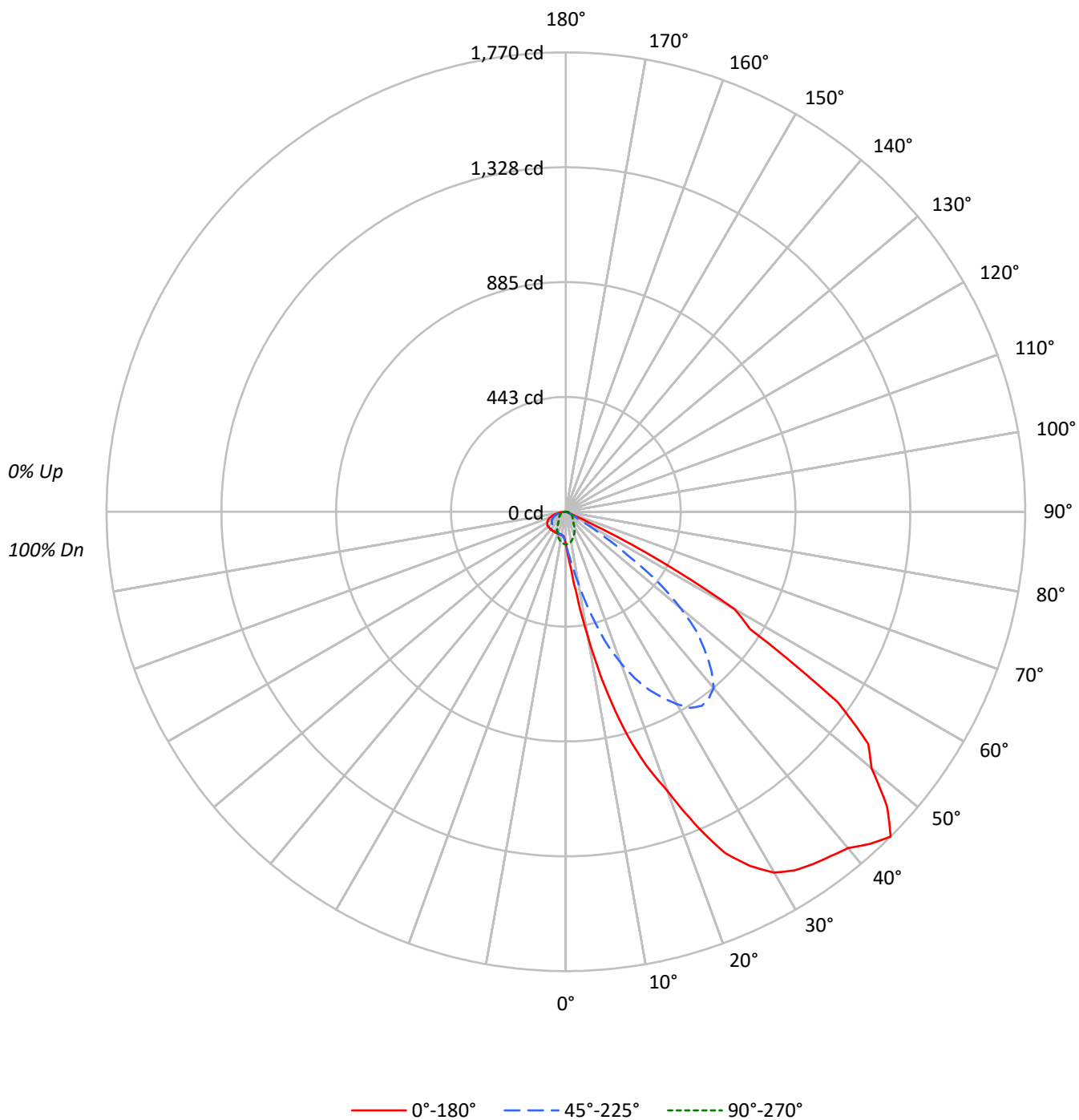
Lumens per Lamp: N/A  
Luminaire Lumens: 1284.0 lumens  
Efficiency: N/A  
Efficacy: 60.6 lumens/watt  
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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 |
| 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  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 94  | 91  | 92  | 90  | 89  | 87  |    |    |
| 2   | 101 | 93  | 87  | 82  | 98  | 92  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 79  | 76  | 74  |    |    |
| 3   | 92  | 82  | 75  | 69  | 90  | 81  | 74  | 68  | 78  | 72  | 67  | 75  | 70  | 66  | 73  | 68  | 65  | 62  |    |    |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 57  | 67  | 61  | 56  | 64  | 59  | 55  | 53  |    |    |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |    |    |
| 6   | 71  | 57  | 49  | 42  | 69  | 57  | 48  | 42  | 55  | 47  | 42  | 53  | 46  | 41  | 51  | 46  | 41  | 39  |    |    |
| 7   | 65  | 52  | 43  | 37  | 63  | 51  | 42  | 36  | 49  | 42  | 36  | 48  | 41  | 36  | 46  | 40  | 36  | 34  |    |    |
| 8   | 60  | 46  | 38  | 32  | 58  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |    |    |
| 9   | 56  | 42  | 34  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |
| 10  | 52  | 38  | 30  | 25  | 50  | 38  | 30  | 25  | 37  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 24  | 23  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 21511  | 21511  | 21511 | 21511 | 21511 |
| 5°  | 37619  | 30721  | 21143 | 17132 | 16476 |
| 10° | 85096  | 49526  | 20269 | 15757 | 15984 |
| 15° | 154709 | 79646  | 18828 | 15833 | 16296 |
| 20° | 209759 | 113722 | 16990 | 15817 | 16513 |
| 25° | 275710 | 143603 | 14917 | 15411 | 16874 |
| 30° | 319259 | 170249 | 12807 | 15352 | 17659 |
| 35° | 348628 | 191912 | 10828 | 15705 | 18670 |
| 40° | 380329 | 199124 | 9555  | 16502 | 19964 |
| 45° | 431149 | 184691 | 9085  | 17561 | 21628 |
| 50° | 411863 | 154194 | 8976  | 18621 | 23792 |
| 55° | 383854 | 86595  | 9278  | 20087 | 26273 |
| 60° | 258541 | 18634  | 9300  | 21287 | 28382 |
| 65° | 39855  | 4727   | 8925  | 22046 | 30971 |
| 70° | 4532   | 4532   | 8409  | 22710 | 33083 |
| 75° | 4259   | 4259   | 7719  | 22291 | 33404 |
| 80° | 3868   | 5058   | 7637  | 20431 | 33225 |
| 85° | 2569   | 5138   | 7707  | 20353 | 30431 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 431149 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 15.1   | 1.2       |
| 10°-20°   | 81.6   | 6.4       |
| 20°-30°   | 191.8  | 14.9      |
| 30°-40°   | 289.8  | 22.6      |
| 40°-50°   | 333.1  | 25.9      |
| 50°-60°   | 264.5  | 20.6      |
| 60°-70°   | 79.2   | 6.2       |
| 70°-80°   | 21.5   | 1.7       |
| 80°-90°   | 7.2    | 0.6       |
| 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°    | 288.6  | 22.5      |
| 0°-40°    | 578.4  | 45.0      |
| 0°-60°    | 1176.0 | 91.6      |
| 0°-90°    | 1284.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1284.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 125  | 125 | 125 | 125  | 125  |      |
| 5°  | 218  | 178 | 122 | 99   | 95   | 29   |
| 15° | 868  | 447 | 106 | 89   | 91   | 250  |
| 25° | 1451 | 756 | 78  | 81   | 89   | 662  |
| 35° | 1658 | 913 | 52  | 75   | 89   | 1041 |
| 45° | 1770 | 758 | 37  | 72   | 89   | 1315 |
| 55° | 1278 | 288 | 31  | 67   | 88   | 1053 |
| 65° | 98   | 12  | 22  | 54   | 76   | 219  |
| 75° | 6    | 6   | 12  | 34   | 50   | 7    |
| 85° | 1    | 3   | 4   | 10   | 15   | 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°    | 124.9  | 124.9  | 124.9  | 124.9  | 124.9  | 124.9  | 124.9 | 124.9 | 124.9 | 124.9  | 124.9 |
| 2.5°  | 158.4  | 159.6  | 158.4  | 158.4  | 157.1  | 155.8  | 146.8 | 136.5 | 124.9 | 115.9  | 109.4 |
| 5°    | 217.6  | 218.9  | 215.0  | 215.0  | 212.4  | 208.6  | 177.7 | 148.1 | 122.3 | 108.1  | 99.1  |
| 7.5°  | 321.9  | 327.0  | 320.6  | 312.8  | 298.7  | 296.1  | 221.4 | 159.6 | 119.7 | 100.4  | 92.7  |
| 10°   | 486.6  | 482.8  | 476.3  | 460.9  | 436.4  | 424.8  | 283.2 | 171.2 | 115.9 | 95.3   | 90.1  |
| 12.5° | 686.2  | 675.9  | 668.2  | 639.8  | 606.4  | 587.1  | 360.5 | 181.5 | 110.7 | 90.1   | 88.8  |
| 15°   | 867.7  | 860.0  | 842.0  | 814.9  | 773.7  | 758.3  | 446.7 | 188.0 | 105.6 | 86.3   | 88.8  |
| 17.5° | 1020.9 | 1013.2 | 1002.9 | 975.9  | 933.4  | 910.2  | 543.3 | 191.8 | 99.1  | 83.7   | 87.5  |
| 20°   | 1144.5 | 1139.4 | 1125.2 | 1103.3 | 1060.8 | 1038.9 | 620.5 | 191.8 | 92.7  | 81.1   | 86.3  |
| 22.5° | 1304.2 | 1292.6 | 1274.5 | 1242.4 | 1189.6 | 1156.1 | 693.9 | 188.0 | 86.3  | 78.5   | 83.7  |
| 25°   | 1450.9 | 1443.2 | 1420.0 | 1381.4 | 1324.8 | 1291.3 | 755.7 | 180.2 | 78.5  | 74.7   | 81.1  |
| 27.5° | 1538.5 | 1533.3 | 1511.4 | 1471.5 | 1408.4 | 1382.7 | 807.2 | 168.7 | 70.8  | 70.8   | 79.8  |
| 30°   | 1605.4 | 1595.1 | 1573.2 | 1534.6 | 1470.2 | 1439.3 | 856.1 | 154.5 | 64.4  | 66.9   | 77.2  |
| 32.5° | 1638.9 | 1635.0 | 1615.7 | 1582.2 | 1519.2 | 1484.4 | 896.0 | 136.5 | 56.6  | 64.4   | 76.0  |
| 35°   | 1658.2 | 1654.3 | 1638.9 | 1606.7 | 1547.5 | 1514.0 | 912.8 | 119.7 | 51.5  | 61.8   | 74.7  |
| 37.5° | 1673.6 | 1669.8 | 1650.5 | 1618.3 | 1559.1 | 1524.3 | 905.1 | 101.7 | 46.3  | 59.2   | 73.4  |
| 40°   | 1691.7 | 1677.5 | 1647.9 | 1615.7 | 1561.6 | 1528.2 | 885.7 | 85.0  | 42.5  | 57.9   | 73.4  |
| 42.5° | 1735.4 | 1686.5 | 1640.2 | 1610.6 | 1559.1 | 1520.4 | 830.4 | 66.9  | 38.6  | 55.4   | 72.1  |
| 45°   | 1770.2 | 1683.9 | 1624.7 | 1601.6 | 1548.8 | 1505.0 | 758.3 | 48.9  | 37.3  | 54.1   | 72.1  |
| 47.5° | 1678.8 | 1626.0 | 1599.0 | 1586.1 | 1529.5 | 1481.8 | 683.6 | 33.5  | 36.0  | 52.8   | 70.8  |
| 50°   | 1537.2 | 1530.7 | 1520.4 | 1521.7 | 1470.2 | 1431.6 | 575.5 | 23.2  | 33.5  | 51.5   | 69.5  |
| 52.5° | 1468.9 | 1461.2 | 1443.2 | 1430.3 | 1378.8 | 1345.4 | 455.7 | 18.0  | 32.2  | 50.2   | 68.2  |
| 55°   | 1278.4 | 1283.6 | 1264.2 | 1272.0 | 1256.5 | 1239.8 | 288.4 | 16.7  | 30.9  | 47.6   | 66.9  |
| 57.5° | 842.0  | 867.7  | 912.8  | 966.9  | 1015.8 | 1049.2 | 155.8 | 16.7  | 28.3  | 46.3   | 64.4  |
| 60°   | 750.6  | 744.1  | 742.8  | 753.1  | 775.0  | 793.1  | 54.1  | 15.4  | 27.0  | 42.5   | 61.8  |
| 62.5° | 410.7  | 408.1  | 446.7  | 512.4  | 551.0  | 554.9  | 15.4  | 15.4  | 24.5  | 39.9   | 57.9  |
| 65°   | 97.8   | 101.7  | 113.3  | 141.6  | 167.4  | 184.1  | 11.6  | 14.2  | 21.9  | 37.3   | 54.1  |
| 67.5° | 15.4   | 16.7   | 16.7   | 20.6   | 23.2   | 23.2   | 10.3  | 12.9  | 19.3  | 33.5   | 50.2  |
| 70°   | 9.0    | 9.0    | 9.0    | 9.0    | 9.0    | 9.0    | 9.0   | 11.6  | 16.7  | 29.6   | 45.1  |
| 72.5° | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 7.7    | 9.0   | 10.3  | 14.2  | 25.7   | 38.6  |
| 75°   | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4    | 6.4   | 9.0   | 11.6  | 20.6   | 33.5  |
| 77.5° | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    | 6.4   | 7.7   | 10.3  | 16.7   | 27.0  |
| 80°   | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 5.1   | 6.4   | 7.7   | 12.9   | 20.6  |
| 82.5° | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 3.9   | 5.1   | 6.4   | 10.3   | 15.4  |
| 85°   | 1.3    | 1.3    | 1.3    | 1.3    | 2.6    | 2.6    | 2.6   | 3.9   | 3.9   | 6.4    | 10.3  |
| 87.5° | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 2.6   | 2.6   | 2.6   | 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°    | 124.9  | 124.9 |
| 2.5°  | 105.6  | 104.3 |
| 5°    | 95.3   | 95.3  |
| 7.5°  | 91.4   | 91.4  |
| 10°   | 90.1   | 91.4  |
| 12.5° | 90.1   | 91.4  |
| 15°   | 90.1   | 91.4  |
| 17.5° | 90.1   | 91.4  |
| 20°   | 88.8   | 90.1  |
| 22.5° | 87.5   | 88.8  |
| 25°   | 86.3   | 88.8  |
| 27.5° | 85.0   | 88.8  |
| 30°   | 85.0   | 88.8  |
| 32.5° | 85.0   | 88.8  |
| 35°   | 83.7   | 88.8  |
| 37.5° | 83.7   | 88.8  |
| 40°   | 83.7   | 88.8  |
| 42.5° | 83.7   | 88.8  |
| 45°   | 83.7   | 88.8  |
| 47.5° | 83.7   | 88.8  |
| 50°   | 83.7   | 88.8  |
| 52.5° | 82.4   | 88.8  |
| 55°   | 82.4   | 87.5  |
| 57.5° | 79.8   | 85.0  |
| 60°   | 77.2   | 82.4  |
| 62.5° | 74.7   | 79.8  |
| 65°   | 70.8   | 76.0  |
| 67.5° | 66.9   | 70.8  |
| 70°   | 60.5   | 65.7  |
| 72.5° | 54.1   | 57.9  |
| 75°   | 46.3   | 50.2  |
| 77.5° | 38.6   | 42.5  |
| 80°   | 30.9   | 33.5  |
| 82.5° | 21.9   | 24.5  |
| 85°   | 14.2   | 15.4  |
| 87.5° | 6.4    | 6.4   |
| 90°   | 0.0    | 0.0   |

(END OF REPORT)