

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: P1317632

Luminaire Tested: P3SQAS02R659835DE010 E3SQCA451MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317632  
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: P3SQAS02R659835DE010 E3SQCA451MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 98CRI , E3SQCA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

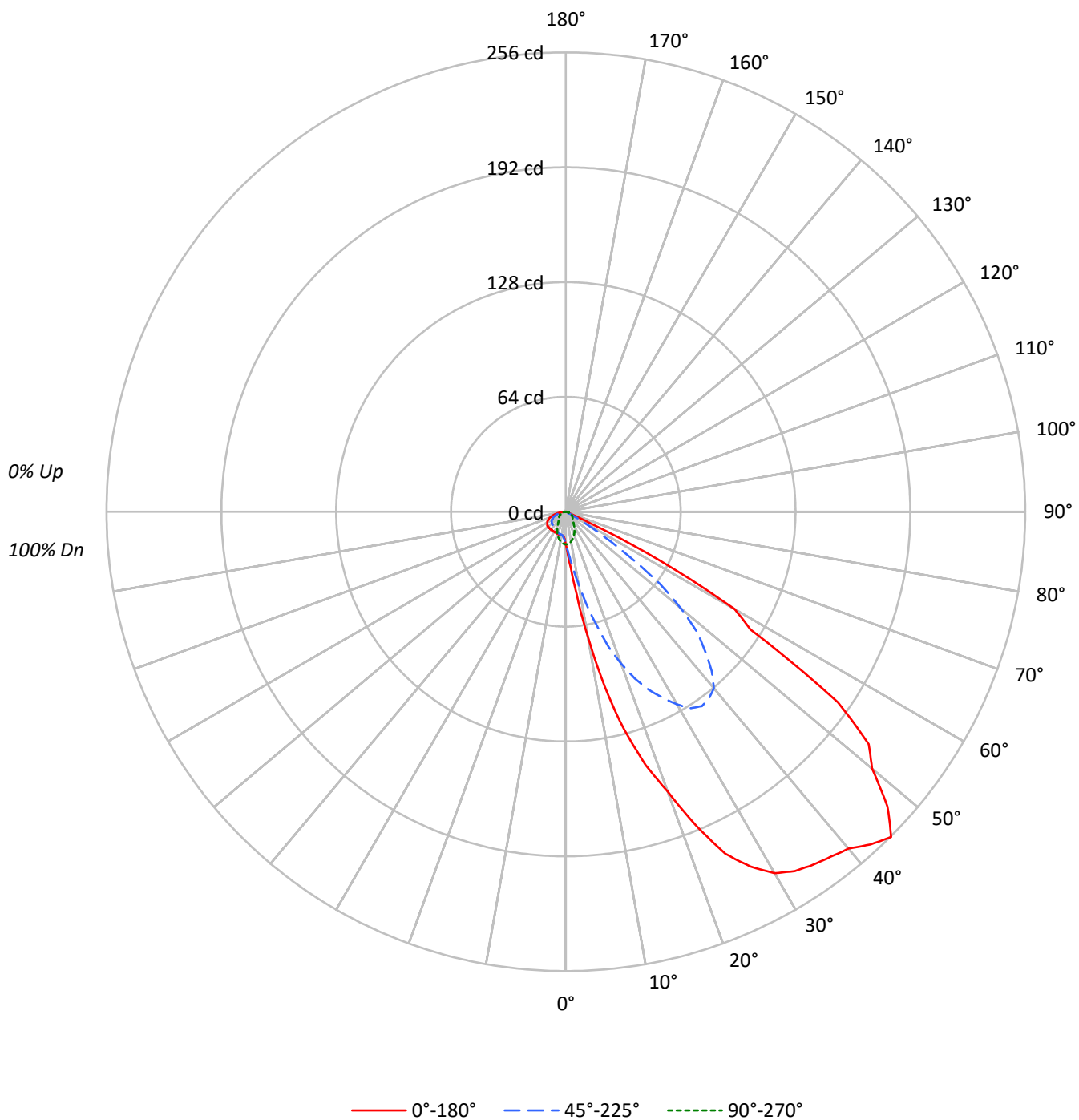
Lumens per Lamp: N/A  
Luminaire Lumens: 186.0 lumens  
Efficiency: N/A  
Efficacy: 51.7 lumens/watt  
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 94  | 91  | 92  | 90  | 89  |
| 2   | 101 | 93  | 87  | 82  | 98  | 92  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 79  | 76  |
| 3   | 92  | 82  | 75  | 69  | 90  | 81  | 74  | 68  | 78  | 72  | 67  | 75  | 70  | 66  | 73  | 68  | 65  |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 57  | 67  | 61  | 56  | 64  | 59  | 55  |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  |
| 6   | 71  | 57  | 49  | 42  | 69  | 57  | 48  | 42  | 55  | 47  | 42  | 53  | 46  | 41  | 51  | 46  | 41  |
| 7   | 65  | 52  | 43  | 37  | 63  | 51  | 42  | 36  | 49  | 42  | 36  | 48  | 41  | 36  | 46  | 40  | 36  |
| 8   | 60  | 46  | 38  | 32  | 58  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 42  | 36  | 31  |
| 9   | 56  | 42  | 34  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  |
| 10  | 52  | 38  | 30  | 25  | 50  | 38  | 30  | 25  | 37  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 24  |

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

|     | 0°    | 45°   | 90°  | 135° | 180° |
|-----|-------|-------|------|------|------|
| 0°  | 3117  | 3117  | 3117 | 3117 | 3117 |
| 5°  | 5446  | 4443  | 3060 | 2489 | 2386 |
| 10° | 12329 | 7170  | 2938 | 2291 | 2308 |
| 15° | 22412 | 11536 | 2728 | 2300 | 2354 |
| 20° | 30387 | 16476 | 2456 | 2291 | 2401 |
| 25° | 39944 | 20808 | 2166 | 2223 | 2451 |
| 30° | 46256 | 24659 | 1849 | 2227 | 2565 |
| 35° | 50501 | 27794 | 1577 | 2271 | 2712 |
| 40° | 55104 | 28844 | 1394 | 2383 | 2900 |
| 45° | 62449 | 26743 | 1315 | 2533 | 3142 |
| 50° | 59668 | 22345 | 1286 | 2706 | 3456 |
| 55° | 55608 | 12551 | 1351 | 2913 | 3813 |
| 60° | 37441 | 2687  | 1343 | 3100 | 4099 |
| 65° | 5787  | 693   | 1304 | 3179 | 4483 |
| 70° | 655   | 655   | 1209 | 3273 | 4784 |
| 75° | 599   | 599   | 1131 | 3194 | 4858 |
| 80° | 595   | 694   | 1091 | 2975 | 4761 |
| 85° | 395   | 790   | 1186 | 2964 | 4347 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 62449 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.2    | 1.2       |
| 10°-20°   | 11.8   | 6.4       |
| 20°-30°   | 27.8   | 14.9      |
| 30°-40°   | 42.0   | 22.6      |
| 40°-50°   | 48.3   | 25.9      |
| 50°-60°   | 38.3   | 20.6      |
| 60°-70°   | 11.5   | 6.2       |
| 70°-80°   | 3.1    | 1.7       |
| 80°-90°   | 1.1    | 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°    | 41.8   | 22.5      |
| 0°-40°    | 83.8   | 45.0      |
| 0°-60°    | 170.4  | 91.6      |
| 0°-90°    | 186.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 186.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 18  | 18  | 18  | 18   | 18   |      |
| 5°  | 32  | 26  | 18  | 14   | 14   | 4    |
| 15° | 126 | 65  | 15  | 13   | 13   | 36   |
| 25° | 210 | 110 | 11  | 12   | 13   | 96   |
| 35° | 240 | 132 | 8   | 11   | 13   | 151  |
| 45° | 256 | 110 | 5   | 10   | 13   | 190  |
| 55° | 185 | 42  | 4   | 10   | 13   | 153  |
| 65° | 14  | 2   | 3   | 8    | 11   | 32   |
| 75° | 1   | 1   | 2   | 5    | 7    | 1    |
| 85° | 0   | 0   | 1   | 2    | 2    | 0    |
| 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°    | 18.1  | 18.1  | 18.1  | 18.1  | 18.1  | 18.1  | 18.1  | 18.1  | 18.1 | 18.1   | 18.1 |
| 2.5°  | 22.9  | 23.1  | 22.9  | 22.9  | 22.8  | 22.6  | 21.3  | 19.8  | 18.1 | 16.8   | 15.9 |
| 5°    | 31.5  | 31.7  | 31.1  | 31.1  | 30.8  | 30.2  | 25.7  | 21.4  | 17.7 | 15.7   | 14.4 |
| 7.5°  | 46.6  | 47.4  | 46.4  | 45.3  | 43.3  | 42.9  | 32.1  | 23.1  | 17.3 | 14.5   | 13.4 |
| 10°   | 70.5  | 69.9  | 69.0  | 66.8  | 63.2  | 61.5  | 41.0  | 24.8  | 16.8 | 13.8   | 13.1 |
| 12.5° | 99.4  | 97.9  | 96.8  | 92.7  | 87.8  | 85.0  | 52.2  | 26.3  | 16.0 | 13.1   | 12.9 |
| 15°   | 125.7 | 124.6 | 122.0 | 118.1 | 112.1 | 109.8 | 64.7  | 27.2  | 15.3 | 12.5   | 12.9 |
| 17.5° | 147.9 | 146.8 | 145.3 | 141.4 | 135.2 | 131.9 | 78.7  | 27.8  | 14.4 | 12.1   | 12.7 |
| 20°   | 165.8 | 165.0 | 163.0 | 159.8 | 153.7 | 150.5 | 89.9  | 27.8  | 13.4 | 11.7   | 12.5 |
| 22.5° | 188.9 | 187.2 | 184.6 | 180.0 | 172.3 | 167.5 | 100.5 | 27.2  | 12.5 | 11.4   | 12.1 |
| 25°   | 210.2 | 209.1 | 205.7 | 200.1 | 191.9 | 187.1 | 109.5 | 26.1  | 11.4 | 10.8   | 11.7 |
| 27.5° | 222.9 | 222.1 | 218.9 | 213.2 | 204.0 | 200.3 | 116.9 | 24.4  | 10.3 | 10.3   | 11.6 |
| 30°   | 232.6 | 231.1 | 227.9 | 222.3 | 213.0 | 208.5 | 124.0 | 22.4  | 9.3  | 9.7    | 11.2 |
| 32.5° | 237.4 | 236.8 | 234.1 | 229.2 | 220.1 | 215.0 | 129.8 | 19.8  | 8.2  | 9.3    | 11.0 |
| 35°   | 240.2 | 239.6 | 237.4 | 232.7 | 224.2 | 219.3 | 132.2 | 17.3  | 7.5  | 9.0    | 10.8 |
| 37.5° | 242.4 | 241.9 | 239.1 | 234.4 | 225.8 | 220.8 | 131.1 | 14.7  | 6.7  | 8.6    | 10.6 |
| 40°   | 245.1 | 243.0 | 238.7 | 234.1 | 226.2 | 221.4 | 128.3 | 12.3  | 6.2  | 8.4    | 10.6 |
| 42.5° | 251.4 | 244.3 | 237.6 | 233.3 | 225.8 | 220.3 | 120.3 | 9.7   | 5.6  | 8.0    | 10.4 |
| 45°   | 256.4 | 243.9 | 235.4 | 232.0 | 224.4 | 218.0 | 109.8 | 7.1   | 5.4  | 7.8    | 10.4 |
| 47.5° | 243.2 | 235.5 | 231.6 | 229.8 | 221.6 | 214.7 | 99.0  | 4.8   | 5.2  | 7.6    | 10.3 |
| 50°   | 222.7 | 221.7 | 220.3 | 220.4 | 213.0 | 207.4 | 83.4  | 3.4   | 4.8  | 7.5    | 10.1 |
| 52.5° | 212.8 | 211.7 | 209.1 | 207.2 | 199.7 | 194.9 | 66.0  | 2.6   | 4.7  | 7.3    | 9.9  |
| 55°   | 185.2 | 185.9 | 183.1 | 184.3 | 182.0 | 179.6 | 41.8  | 2.4   | 4.5  | 6.9    | 9.7  |
| 57.5° | 122.0 | 125.7 | 132.2 | 140.1 | 147.1 | 152.0 | 22.6  | 2.4   | 4.1  | 6.7    | 9.3  |
| 60°   | 108.7 | 107.8 | 107.6 | 109.1 | 112.3 | 114.9 | 7.8   | 2.2   | 3.9  | 6.2    | 9.0  |
| 62.5° | 59.5  | 59.1  | 64.7  | 74.2  | 79.8  | 80.4  | 2.2   | 2.2   | 3.5  | 5.8    | 8.4  |
| 65°   | 14.2  | 14.7  | 16.4  | 20.5  | 24.2  | 26.7  | 1.7   | 2.1   | 3.2  | 5.4    | 7.8  |
| 67.5° | 2.2   | 2.4   | 2.4   | 3.0   | 3.4   | 3.4   | 1.5   | 1.9   | 2.8  | 4.8    | 7.3  |
| 70°   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.7   | 2.4  | 4.3    | 6.5  |
| 72.5° | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.3   | 1.5   | 2.1  | 3.7    | 5.6  |
| 75°   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 1.3   | 1.7  | 3.0    | 4.8  |
| 77.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.9   | 1.1   | 1.5  | 2.4    | 3.9  |
| 80°   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.7   | 0.9   | 1.1  | 1.9    | 3.0  |
| 82.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.6   | 0.7   | 0.9  | 1.5    | 2.2  |
| 85°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.4   | 0.4   | 0.6   | 0.6  | 0.9    | 1.5  |
| 87.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.4   | 0.4  | 0.6    | 0.7  |
| 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°    | 18.1   | 18.1 |
| 2.5°  | 15.3   | 15.1 |
| 5°    | 13.8   | 13.8 |
| 7.5°  | 13.2   | 13.2 |
| 10°   | 13.1   | 13.2 |
| 12.5° | 13.1   | 13.2 |
| 15°   | 13.1   | 13.2 |
| 17.5° | 13.1   | 13.2 |
| 20°   | 12.9   | 13.1 |
| 22.5° | 12.7   | 12.9 |
| 25°   | 12.5   | 12.9 |
| 27.5° | 12.3   | 12.9 |
| 30°   | 12.3   | 12.9 |
| 32.5° | 12.3   | 12.9 |
| 35°   | 12.1   | 12.9 |
| 37.5° | 12.1   | 12.9 |
| 40°   | 12.1   | 12.9 |
| 42.5° | 12.1   | 12.9 |
| 45°   | 12.1   | 12.9 |
| 47.5° | 12.1   | 12.9 |
| 50°   | 12.1   | 12.9 |
| 52.5° | 11.9   | 12.9 |
| 55°   | 11.9   | 12.7 |
| 57.5° | 11.6   | 12.3 |
| 60°   | 11.2   | 11.9 |
| 62.5° | 10.8   | 11.6 |
| 65°   | 10.3   | 11.0 |
| 67.5° | 9.7    | 10.3 |
| 70°   | 8.8    | 9.5  |
| 72.5° | 7.8    | 8.4  |
| 75°   | 6.7    | 7.3  |
| 77.5° | 5.6    | 6.2  |
| 80°   | 4.5    | 4.8  |
| 82.5° | 3.2    | 3.5  |
| 85°   | 2.1    | 2.2  |
| 87.5° | 0.9    | 0.9  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)