

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: P1315862

Luminaire Tested: P3SQAS02R559827DE010 E3SQCA451MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315862  
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: P3SQAS02R559827DE010 E3SQCA451MB  
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 98CRI , E3SQCA451MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

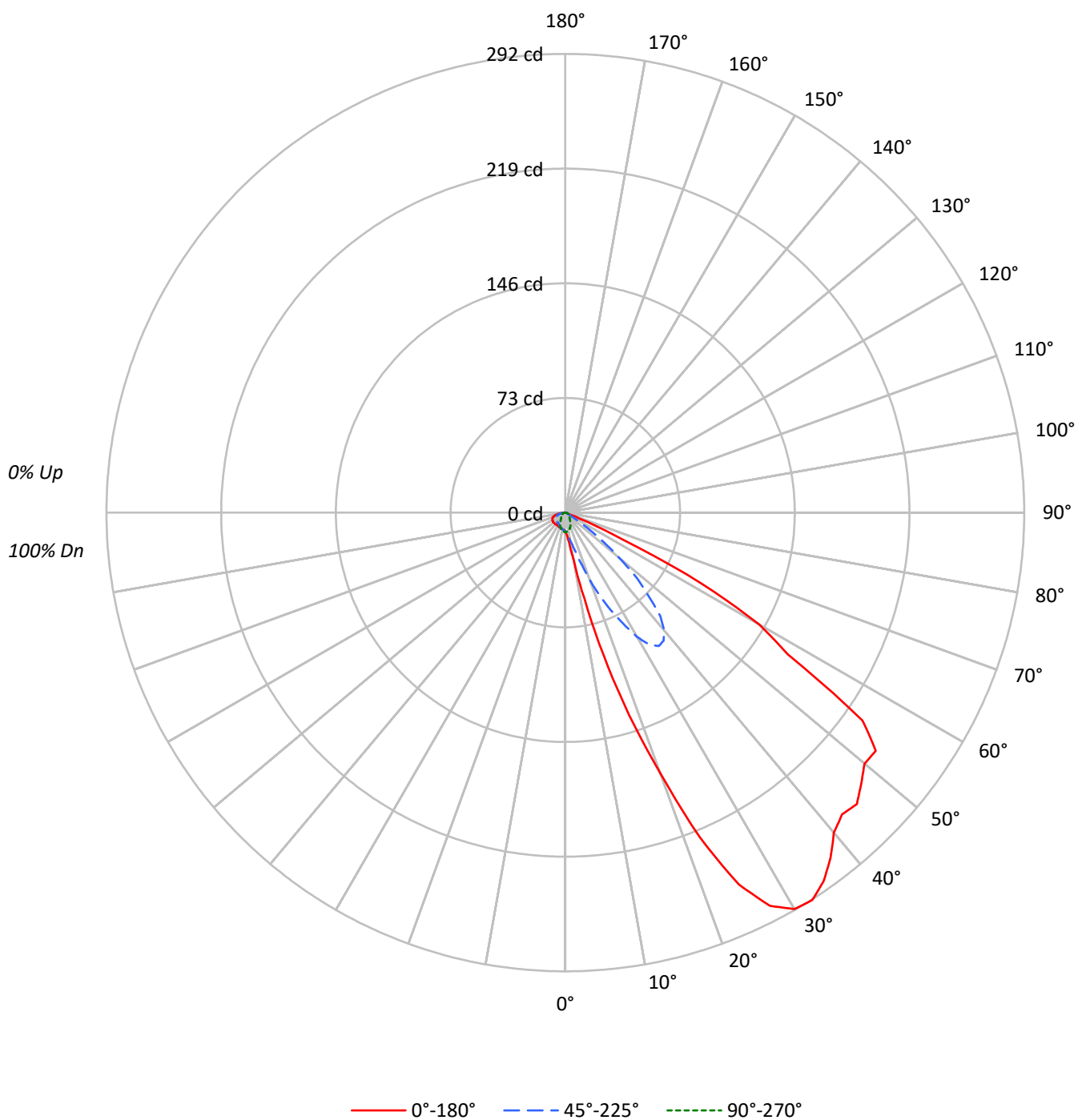
Lumens per Lamp: N/A  
Luminaire Lumens: 188.0 lumens  
Efficiency: N/A  
Efficacy: 52.2 lumens/watt  
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| 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°  | 2084  | 2084  | 2084 | 2084 | 2084 |
| 5°  | 2662  | 2438  | 2092 | 1954 | 1902 |
| 10° | 5439  | 3113  | 2029 | 1854 | 1854 |
| 15° | 16671 | 4761  | 1890 | 1801 | 1872 |
| 20° | 32238 | 8339  | 1704 | 1759 | 1851 |
| 25° | 49616 | 12979 | 1482 | 1710 | 1862 |
| 30° | 57949 | 18137 | 1213 | 1690 | 1909 |
| 35° | 60214 | 21802 | 1009 | 1682 | 1997 |
| 40° | 59757 | 21987 | 944  | 1754 | 2158 |
| 45° | 63886 | 18194 | 901  | 1900 | 2338 |
| 50° | 66581 | 12003 | 884  | 2036 | 2626 |
| 55° | 69330 | 5225  | 901  | 2252 | 2883 |
| 60° | 48980 | 1206  | 930  | 2446 | 3272 |
| 65° | 15975 | 408   | 897  | 2649 | 3668 |
| 70° | 504   | 403   | 906  | 2820 | 4179 |
| 75° | 466   | 466   | 799  | 2994 | 4658 |
| 80° | 298   | 496   | 793  | 2975 | 4959 |
| 85° | 395   | 593   | 988  | 2964 | 4940 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 70444 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.3    | 0.7       |
| 10°-20°   | 8.0    | 4.2       |
| 20°-30°   | 26.8   | 14.2      |
| 30°-40°   | 43.9   | 23.4      |
| 40°-50°   | 49.0   | 26.1      |
| 50°-60°   | 41.3   | 21.9      |
| 60°-70°   | 14.0   | 7.4       |
| 70°-80°   | 2.7    | 1.5       |
| 80°-90°   | 1.0    | 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°    | 36.0   | 19.2      |
| 0°-40°    | 80.0   | 42.5      |
| 0°-60°    | 170.2  | 90.6      |
| 0°-90°    | 188.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 188.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 12  | 12  | 12  | 12   | 12   |      |
| 5°  | 15  | 14  | 12  | 11   | 11   | 2    |
| 15° | 94  | 27  | 11  | 10   | 10   | 30   |
| 25° | 261 | 68  | 8   | 9    | 10   | 117  |
| 35° | 286 | 104 | 5   | 8    | 10   | 178  |
| 45° | 262 | 75  | 4   | 8    | 10   | 200  |
| 55° | 231 | 17  | 3   | 8    | 10   | 188  |
| 65° | 39  | 1   | 2   | 6    | 9    | 53   |
| 75° | 1   | 1   | 1   | 4    | 7    | 1    |
| 85° | 0   | 0   | 0   | 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°    | 12.1  | 12.1  | 12.1  | 12.1  | 12.1  | 12.1  | 12.1  | 12.1  | 12.1 | 12.1   | 12.1 |
| 2.5°  | 13.3  | 13.3  | 13.3  | 13.3  | 13.3  | 13.3  | 13.1  | 12.6  | 12.3 | 11.8   | 11.6 |
| 5°    | 15.4  | 15.4  | 15.4  | 15.3  | 15.3  | 14.9  | 14.1  | 13.0  | 12.1 | 11.5   | 11.3 |
| 7.5°  | 19.9  | 19.8  | 19.4  | 19.3  | 18.8  | 18.6  | 15.6  | 13.3  | 12.0 | 11.1   | 11.0 |
| 10°   | 31.1  | 30.7  | 30.2  | 28.4  | 26.7  | 25.6  | 17.8  | 13.5  | 11.6 | 10.8   | 10.6 |
| 12.5° | 56.0  | 55.3  | 52.8  | 49.0  | 44.4  | 42.0  | 21.3  | 13.6  | 11.1 | 10.5   | 10.5 |
| 15°   | 93.5  | 92.7  | 88.0  | 82.7  | 74.3  | 69.6  | 26.7  | 13.5  | 10.6 | 10.0   | 10.1 |
| 17.5° | 135.0 | 132.7 | 127.9 | 120.9 | 109.5 | 104.0 | 34.9  | 13.1  | 10.0 | 9.6    | 10.0 |
| 20°   | 175.9 | 175.2 | 167.3 | 157.8 | 143.7 | 136.4 | 45.5  | 12.6  | 9.3  | 9.1    | 9.6  |
| 22.5° | 223.7 | 220.9 | 212.5 | 202.3 | 182.9 | 173.3 | 57.0  | 12.0  | 8.6  | 8.6    | 9.3  |
| 25°   | 261.1 | 257.8 | 251.2 | 239.4 | 220.9 | 210.6 | 68.3  | 11.1  | 7.8  | 8.1    | 9.0  |
| 27.5° | 282.1 | 278.2 | 273.2 | 263.1 | 248.8 | 239.7 | 79.6  | 10.1  | 7.0  | 7.6    | 8.6  |
| 30°   | 291.4 | 290.4 | 286.7 | 279.2 | 266.1 | 258.0 | 91.2  | 9.0   | 6.1  | 7.1    | 8.5  |
| 32.5° | 292.4 | 292.9 | 291.4 | 286.5 | 276.6 | 269.6 | 99.8  | 8.0   | 5.5  | 6.8    | 8.1  |
| 35°   | 286.4 | 288.2 | 289.2 | 287.2 | 280.7 | 275.1 | 103.7 | 6.8   | 4.8  | 6.5    | 8.0  |
| 37.5° | 277.1 | 280.4 | 283.7 | 284.2 | 280.2 | 276.6 | 102.7 | 5.8   | 4.5  | 6.3    | 8.0  |
| 40°   | 265.8 | 268.8 | 275.6 | 279.9 | 278.6 | 275.9 | 97.8  | 4.8   | 4.2  | 6.0    | 7.8  |
| 42.5° | 260.6 | 261.3 | 268.6 | 275.9 | 275.6 | 273.4 | 89.4  | 3.8   | 3.8  | 6.0    | 7.8  |
| 45°   | 262.3 | 259.3 | 264.1 | 272.6 | 272.1 | 269.3 | 74.7  | 3.0   | 3.7  | 5.8    | 7.8  |
| 47.5° | 255.3 | 251.2 | 259.3 | 269.3 | 267.4 | 263.3 | 61.8  | 2.2   | 3.5  | 5.6    | 7.6  |
| 50°   | 248.5 | 247.8 | 254.1 | 259.1 | 256.6 | 254.3 | 44.8  | 1.7   | 3.3  | 5.5    | 7.6  |
| 52.5° | 249.0 | 247.8 | 248.5 | 248.3 | 243.4 | 240.9 | 30.7  | 1.3   | 3.2  | 5.3    | 7.6  |
| 55°   | 230.9 | 227.2 | 223.7 | 224.7 | 225.1 | 223.4 | 17.4  | 1.2   | 3.0  | 5.3    | 7.5  |
| 57.5° | 167.8 | 166.8 | 170.6 | 181.4 | 189.9 | 190.9 | 8.5   | 1.2   | 2.8  | 5.1    | 7.3  |
| 60°   | 142.2 | 141.5 | 141.7 | 144.8 | 149.3 | 146.5 | 3.5   | 1.2   | 2.7  | 5.0    | 7.1  |
| 62.5° | 98.0  | 104.5 | 107.1 | 114.4 | 111.5 | 107.5 | 1.3   | 1.3   | 2.5  | 4.7    | 7.0  |
| 65°   | 39.2  | 39.0  | 42.7  | 46.2  | 45.2  | 42.2  | 1.0   | 1.2   | 2.2  | 4.3    | 6.5  |
| 67.5° | 9.1   | 8.3   | 7.1   | 6.1   | 5.1   | 4.2   | 1.0   | 1.2   | 2.0  | 4.0    | 6.1  |
| 70°   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 0.8   | 0.8   | 1.2   | 1.8  | 3.7    | 5.6  |
| 72.5° | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 1.0   | 1.5  | 3.2    | 5.1  |
| 75°   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.8   | 1.2  | 2.7    | 4.5  |
| 77.5° | 0.5   | 0.5   | 0.5   | 0.7   | 0.5   | 0.7   | 0.7   | 0.8   | 1.0  | 2.2    | 3.8  |
| 80°   | 0.3   | 0.3   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.7   | 0.8  | 1.8    | 3.0  |
| 82.5° | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.5   | 0.5   | 0.7  | 1.3    | 2.2  |
| 85°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.3   | 0.3   | 0.5   | 0.5  | 1.0    | 1.5  |
| 87.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.3   | 0.3   | 0.5  | 0.5    | 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°    | 12.1   | 12.1 |
| 2.5°  | 11.5   | 11.5 |
| 5°    | 11.1   | 11.0 |
| 7.5°  | 10.8   | 10.8 |
| 10°   | 10.6   | 10.6 |
| 12.5° | 10.5   | 10.6 |
| 15°   | 10.5   | 10.5 |
| 17.5° | 10.1   | 10.3 |
| 20°   | 10.0   | 10.1 |
| 22.5° | 9.8    | 10.0 |
| 25°   | 9.6    | 9.8  |
| 27.5° | 9.5    | 9.6  |
| 30°   | 9.3    | 9.6  |
| 32.5° | 9.1    | 9.5  |
| 35°   | 9.1    | 9.5  |
| 37.5° | 9.1    | 9.6  |
| 40°   | 9.1    | 9.6  |
| 42.5° | 9.1    | 9.6  |
| 45°   | 9.1    | 9.6  |
| 47.5° | 9.1    | 9.6  |
| 50°   | 9.1    | 9.8  |
| 52.5° | 9.1    | 9.8  |
| 55°   | 9.1    | 9.6  |
| 57.5° | 9.0    | 9.6  |
| 60°   | 9.0    | 9.5  |
| 62.5° | 8.8    | 9.3  |
| 65°   | 8.5    | 9.0  |
| 67.5° | 8.1    | 8.8  |
| 70°   | 7.6    | 8.3  |
| 72.5° | 7.1    | 7.6  |
| 75°   | 6.5    | 7.0  |
| 77.5° | 5.6    | 6.0  |
| 80°   | 4.5    | 5.0  |
| 82.5° | 3.5    | 3.8  |
| 85°   | 2.3    | 2.5  |
| 87.5° | 1.0    | 1.2  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)