

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: P1316148

Luminaire Tested: P3SQAS09R509827DE010 E3SQCD1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316148  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS09R509827DE010 E3SQCD1MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 98CRI , E3SQCD1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

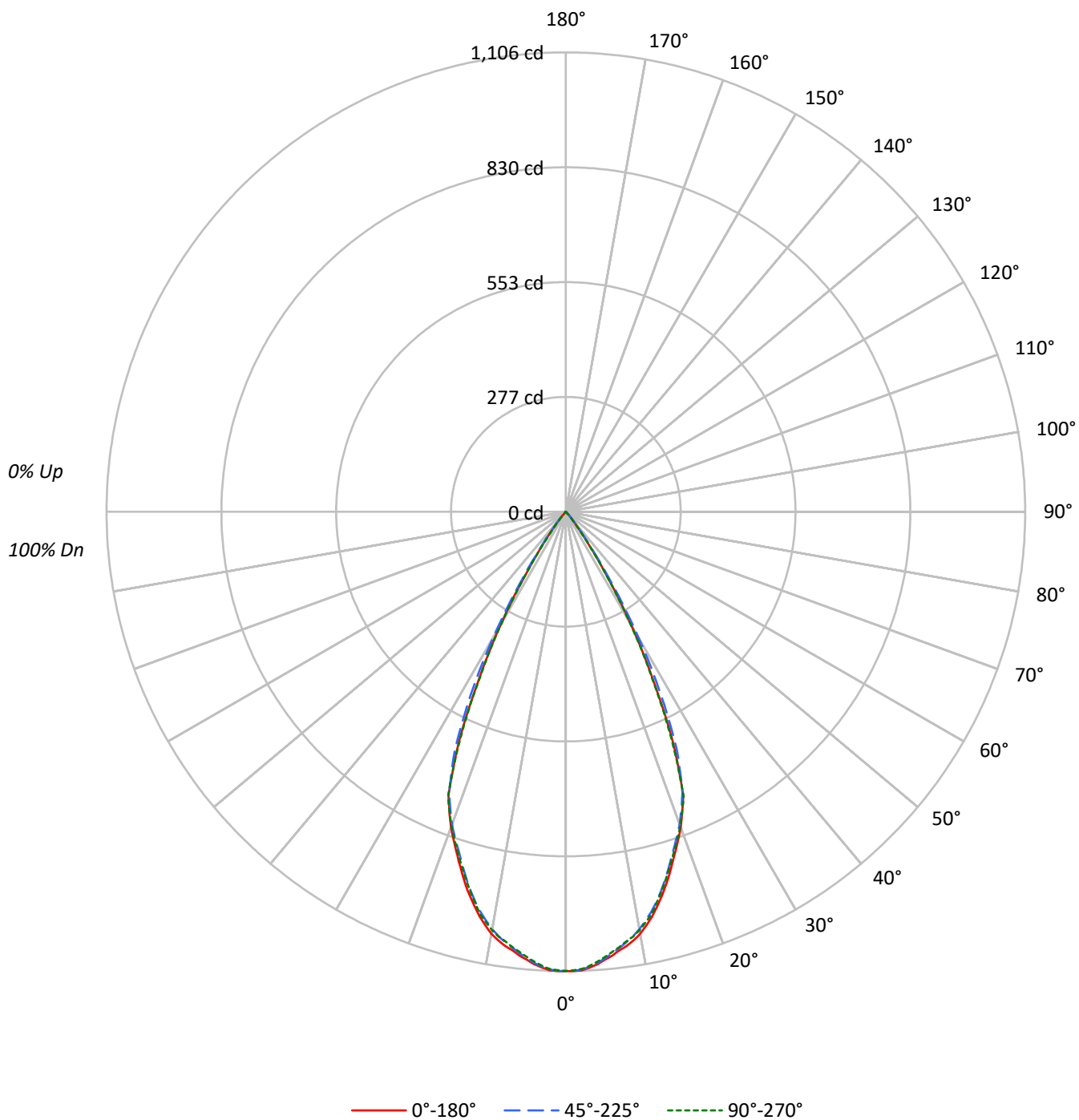
Lumens per Lamp: N/A  
Luminaire Lumens: 712.0 lumens  
Efficiency: N/A  
Efficacy: 64.7 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.78  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11  
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 | 109 | 107 | 112 | 110 | 108 | 106 | 106 | 104 | 102 |  | 102 | 101 | 99  |  | 98  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 98  | 95  |  | 97  | 95  | 93  |  | 95  |
| 3   | 105 | 99  | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 92  | 89  |  | 93  | 90  | 88  |  | 91  |
| 4   | 100 | 94  | 89  | 85  | 99  | 93  | 88  | 85  | 90  | 87  | 84  |  | 89  | 85  | 83  |  | 87  |
| 5   | 96  | 89  | 84  | 80  | 95  | 88  | 83  | 79  | 86  | 82  | 79  |  | 85  | 81  | 78  |  | 83  |
| 6   | 92  | 84  | 79  | 75  | 91  | 83  | 79  | 75  | 82  | 78  | 74  |  | 81  | 77  | 74  |  | 79  |
| 7   | 88  | 80  | 75  | 71  | 87  | 79  | 74  | 71  | 78  | 74  | 70  |  | 77  | 73  | 70  |  | 76  |
| 8   | 85  | 76  | 71  | 67  | 83  | 76  | 71  | 67  | 75  | 70  | 67  |  | 74  | 70  | 67  |  | 73  |
| 9   | 81  | 73  | 67  | 64  | 80  | 72  | 67  | 64  | 71  | 67  | 64  |  | 70  | 66  | 63  |  | 70  |
| 10  | 78  | 69  | 64  | 61  | 77  | 69  | 64  | 61  | 68  | 64  | 60  |  | 67  | 63  | 60  |  | 67  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 190427 | 190427 | 190427 |
| 5°  | 187091 | 186573 | 186037 |
| 10° | 180441 | 178482 | 178849 |
| 15° | 165995 | 163909 | 164355 |
| 20° | 148233 | 146822 | 147665 |
| 25° | 115365 | 120192 | 114111 |
| 30° | 62484  | 69782  | 61370  |
| 35° | 19700  | 23442  | 19279  |
| 40° | 4362   | 6070   | 4114   |
| 45° | 122    | 1851   | 122    |
| 50° | 0      | 268    | 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: 1851 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 101.3  | 14.2      |
| 10°-20°   | 257.4  | 36.1      |
| 20°-30°   | 271.1  | 38.1      |
| 30°-40°   | 77.4   | 10.9      |
| 40°-50°   | 4.8    | 0.7       |
| 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°    | 629.8  | 88.5      |
| 0°-40°    | 707.2  | 99.3      |
| 0°-60°    | 712.0  | 100.0     |
| 0°-90°    | 712.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 712.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1106 | 1106  | 1106 | 1106  | 1106 |      |
| 5°  | 1082 | 1081  | 1079 | 1078  | 1076 | 102  |
| 15° | 931  | 925   | 919  | 921   | 922  | 259  |
| 25° | 607  | 630   | 632  | 625   | 600  | 266  |
| 35° | 94   | 100   | 112  | 95    | 92   | 73   |
| 45° | 0    | 2     | 8    | 2     | 0    | 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°    | 1105.7 | 1105.7 | 1105.7 | 1105.7 | 1105.7 |
| 1°    | 1106.2 | 1106.7 | 1105.7 | 1106.7 | 1104.1 |
| 2°    | 1104.7 | 1103.6 | 1102.6 | 1103.1 | 1101.6 |
| 3°    | 1099.1 | 1098.5 | 1096.5 | 1097.0 | 1095.0 |
| 4°    | 1091.9 | 1090.4 | 1088.9 | 1087.8 | 1085.8 |
| 5°    | 1082.2 | 1081.2 | 1079.2 | 1078.2 | 1076.1 |
| 6°    | 1074.1 | 1072.1 | 1068.5 | 1067.5 | 1065.4 |
| 7°    | 1063.4 | 1062.4 | 1057.8 | 1056.8 | 1055.8 |
| 8°    | 1055.3 | 1052.2 | 1046.6 | 1047.1 | 1044.6 |
| 9°    | 1044.6 | 1040.5 | 1034.9 | 1034.9 | 1035.4 |
| 10°   | 1031.8 | 1025.7 | 1020.6 | 1022.1 | 1022.7 |
| 11°   | 1015.0 | 1010.9 | 1003.3 | 1006.9 | 1006.9 |
| 12°   | 996.7  | 991.6  | 986.0  | 989.0  | 991.1  |
| 13°   | 975.3  | 971.2  | 966.1  | 969.2  | 968.2  |
| 14°   | 954.4  | 946.8  | 943.2  | 947.3  | 945.8  |
| 15°   | 931.0  | 924.9  | 919.3  | 920.8  | 921.8  |
| 17.5° | 868.3  | 861.7  | 857.6  | 858.2  | 862.7  |
| 20°   | 808.8  | 806.2  | 801.1  | 803.2  | 805.7  |
| 22.5° | 738.5  | 739.5  | 733.4  | 734.9  | 741.0  |
| 25°   | 607.1  | 629.5  | 632.5  | 625.4  | 600.5  |
| 27.5° | 449.7  | 483.3  | 493.5  | 477.2  | 446.6  |
| 30°   | 314.2  | 323.4  | 350.9  | 319.8  | 308.6  |
| 32.5° | 184.4  | 198.1  | 212.9  | 191.5  | 183.9  |
| 35°   | 93.7   | 100.3  | 111.5  | 94.7   | 91.7   |
| 37.5° | 43.3   | 46.3   | 50.9   | 43.3   | 40.7   |
| 40°   | 19.4   | 22.9   | 27.0   | 21.9   | 18.3   |
| 42.5° | 6.1    | 10.7   | 14.3   | 9.7    | 5.6    |
| 45°   | 0.5    | 2.5    | 7.6    | 2.5    | 0.5    |
| 47.5° | 0.0    | 0.5    | 3.1    | 0.5    | 0.0    |
| 50°   | 0.0    | 0.0    | 1.0    | 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)