

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: P1316296

Luminaire Tested: P3SQAS13R509827DE010 E3SQCD1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316296  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-39)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS13R509827DE010 E3SQCD1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 98CRI , E3SQCD1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

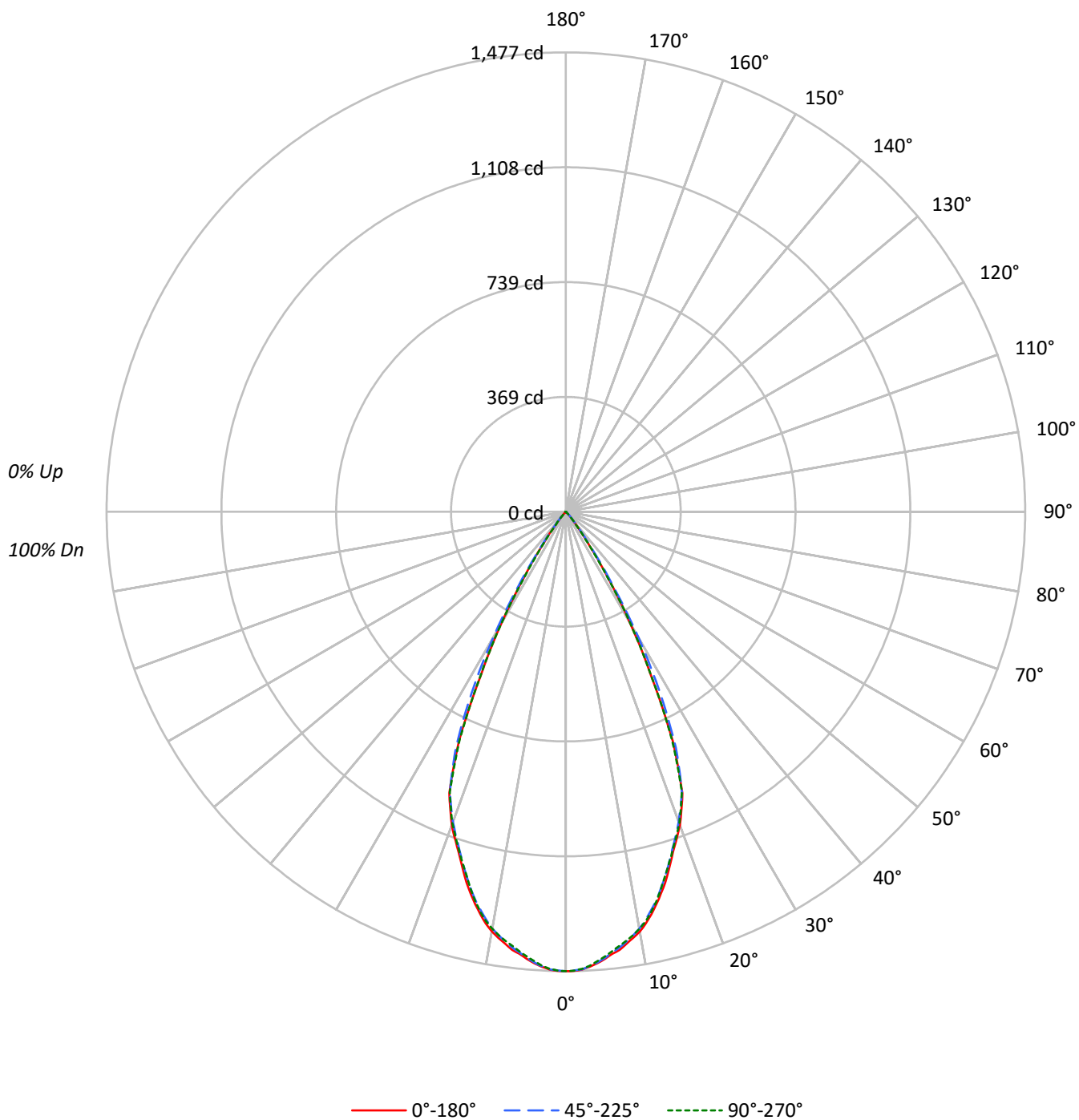
Lumens per Lamp: N/A  
Luminaire Lumens: 952.1 lumens  
Efficiency: N/A  
Efficacy: 65.7 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.78  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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 | 109 | 107 | 106 | 105 | 104 | 102 |  | 102 | 100 | 99  |  | 98  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 97  | 95  |  | 97  | 95  | 93  |  | 94  |
| 3   | 105 | 99  | 94  | 91  | 103 | 98  | 93  | 90  | 95  | 92  | 89  |  | 93  | 90  | 87  |  | 90  |
| 4   | 100 | 93  | 89  | 85  | 98  | 92  | 88  | 84  | 90  | 86  | 83  |  | 88  | 85  | 82  |  | 87  |
| 5   | 96  | 88  | 83  | 79  | 94  | 88  | 83  | 79  | 86  | 82  | 78  |  | 84  | 81  | 78  |  | 83  |
| 6   | 92  | 84  | 79  | 75  | 90  | 83  | 78  | 75  | 82  | 77  | 74  |  | 80  | 77  | 74  |  | 79  |
| 7   | 88  | 80  | 74  | 71  | 87  | 79  | 74  | 70  | 78  | 73  | 70  |  | 77  | 73  | 70  |  | 76  |
| 8   | 84  | 76  | 71  | 67  | 83  | 75  | 70  | 67  | 74  | 70  | 67  |  | 73  | 69  | 66  |  | 72  |
| 9   | 81  | 72  | 67  | 64  | 80  | 72  | 67  | 63  | 71  | 66  | 63  |  | 70  | 66  | 63  |  | 69  |
| 10  | 78  | 69  | 64  | 60  | 77  | 69  | 64  | 60  | 68  | 63  | 60  |  | 67  | 63  | 60  |  | 66  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 254407 | 254407 | 254407 |
| 5°  | 249432 | 248965 | 248256 |
| 10° | 239672 | 238011 | 238133 |
| 15° | 220020 | 217969 | 217720 |
| 20° | 196563 | 194455 | 195445 |
| 25° | 154492 | 158976 | 153199 |
| 30° | 82649  | 92592  | 82927  |
| 35° | 26995  | 31537  | 25440  |
| 40° | 6677   | 8363   | 6385   |
| 45° | 828    | 2971   | 828    |
| 50° | 536    | 911    | 536    |
| 55° | 601    | 601    | 601    |
| 60° | 482    | 482    | 482    |
| 65° | 571    | 571    | 571    |
| 70° | 352    | 352    | 352    |
| 75° | 466    | 466    | 466    |
| 80° | 694    | 694    | 694    |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 2971 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 135.1  | 14.2      |
| 10°-20°   | 341.6  | 35.9      |
| 20°-30°   | 359.3  | 37.7      |
| 30°-40°   | 103.5  | 10.9      |
| 40°-50°   | 8.4    | 0.9       |
| 50°-60°   | 1.8    | 0.2       |
| 60°-70°   | 1.3    | 0.1       |
| 70°-80°   | 0.7    | 0.1       |
| 80°-90°   | 0.2    | 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°    | 836.0  | 87.8      |
| 0°-40°    | 939.6  | 98.7      |
| 0°-60°    | 949.8  | 99.8      |
| 0°-90°    | 952.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 952.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1477 | 1477  | 1477 | 1477  | 1477 |      |
| 5°  | 1443 | 1442  | 1440 | 1441  | 1436 | 135  |
| 15° | 1234 | 1226  | 1222 | 1222  | 1221 | 344  |
| 25° | 813  | 833   | 837  | 827   | 806  | 352  |
| 35° | 128  | 133   | 150  | 128   | 121  | 99   |
| 45° | 3    | 7     | 12   | 7     | 3    | 6    |
| 55° | 2    | 2     | 2    | 2     | 2    | 2    |
| 65° | 1    | 1     | 1    | 1     | 1    | 1    |
| 75° | 1    | 1     | 1    | 1     | 1    | 1    |
| 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°    | 1477.2 | 1477.2 | 1477.2 | 1477.2 | 1477.2 |
| 1°    | 1476.6 | 1477.9 | 1475.2 | 1479.9 | 1475.9 |
| 2°    | 1473.2 | 1473.9 | 1472.5 | 1475.9 | 1470.5 |
| 3°    | 1465.1 | 1466.4 | 1463.7 | 1466.4 | 1461.7 |
| 4°    | 1455.6 | 1455.6 | 1452.9 | 1454.9 | 1448.9 |
| 5°    | 1442.8 | 1442.1 | 1440.1 | 1441.4 | 1436.0 |
| 6°    | 1429.3 | 1428.6 | 1425.2 | 1425.2 | 1421.2 |
| 7°    | 1419.1 | 1414.4 | 1411.7 | 1411.0 | 1407.0 |
| 8°    | 1402.9 | 1401.6 | 1396.1 | 1396.1 | 1393.4 |
| 9°    | 1386.7 | 1385.3 | 1379.3 | 1380.6 | 1378.6 |
| 10°   | 1370.5 | 1365.7 | 1361.0 | 1361.7 | 1361.7 |
| 11°   | 1348.8 | 1344.8 | 1338.0 | 1340.7 | 1342.1 |
| 12°   | 1323.2 | 1318.4 | 1312.4 | 1317.8 | 1317.1 |
| 13°   | 1294.8 | 1290.7 | 1286.0 | 1290.1 | 1288.7 |
| 14°   | 1265.0 | 1259.0 | 1254.9 | 1257.6 | 1256.3 |
| 15°   | 1234.0 | 1225.9 | 1222.5 | 1222.5 | 1221.1 |
| 17.5° | 1146.8 | 1142.1 | 1138.7 | 1136.7 | 1141.4 |
| 20°   | 1072.5 | 1068.4 | 1061.0 | 1063.0 | 1066.4 |
| 22.5° | 979.2  | 978.5  | 974.5  | 971.1  | 975.1  |
| 25°   | 813.0  | 833.2  | 836.6  | 827.1  | 806.2  |
| 27.5° | 590.6  | 637.9  | 654.8  | 632.5  | 594.0  |
| 30°   | 415.6  | 437.9  | 465.6  | 421.7  | 417.0  |
| 32.5° | 250.7  | 256.8  | 282.5  | 252.1  | 245.3  |
| 35°   | 128.4  | 133.1  | 150.0  | 128.4  | 121.0  |
| 37.5° | 60.1   | 62.8   | 69.6   | 60.1   | 56.1   |
| 40°   | 29.7   | 33.1   | 37.2   | 31.1   | 28.4   |
| 42.5° | 12.8   | 16.9   | 21.6   | 16.2   | 11.5   |
| 45°   | 3.4    | 6.8    | 12.2   | 6.8    | 3.4    |
| 47.5° | 2.0    | 2.7    | 6.8    | 2.7    | 2.0    |
| 50°   | 2.0    | 2.0    | 3.4    | 2.0    | 2.0    |
| 52.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 55°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 57.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    |
| 60°   | 1.4    | 2.0    | 1.4    | 2.0    | 1.4    |
| 62.5° | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 65°   | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 67.5° | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 70°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 72.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 75°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 77.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 80°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 82.5° | 0.0    | 0.7    | 0.0    | 0.7    | 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)