

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: P1311563

Luminaire Tested: P3SQAS17R709050DE010 E3SQCD1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311563  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-43)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS17R709050DE010 E3SQCD1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , E3SQCD1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

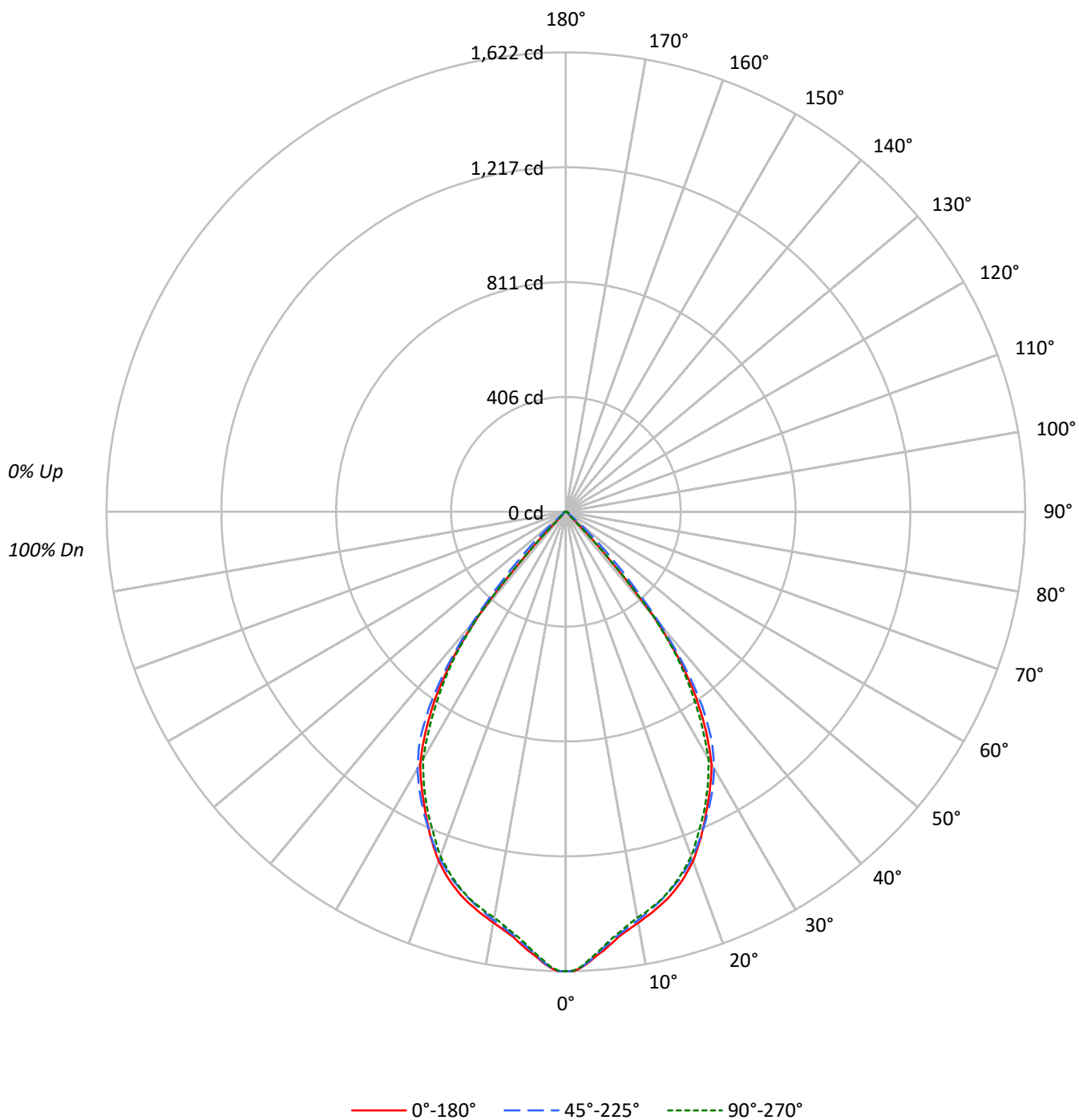
Lumens per Lamp: N/A  
Luminaire Lumens: 1729.9 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Spacing Criteria (0/90/45): 1 / 0.98 / 1.03  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |     |     | 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   | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 |  | 100 | 99  | 97  |  | 97  | 96  | 95  | 93  |
| 2   | 107 | 102 | 98  | 94  | 105 | 100 | 96  | 93  | 97  | 94  | 91  |  | 94  | 91  | 89  |  | 91  | 89  | 87  | 86  |
| 3   | 101 | 95  | 89  | 85  | 99  | 93  | 88  | 84  | 90  | 86  | 83  |  | 88  | 85  | 82  |  | 86  | 83  | 80  | 79  |
| 4   | 96  | 88  | 82  | 77  | 94  | 87  | 81  | 77  | 84  | 80  | 76  |  | 82  | 78  | 75  |  | 81  | 77  | 74  | 73  |
| 5   | 91  | 82  | 76  | 71  | 89  | 81  | 75  | 71  | 79  | 74  | 70  |  | 77  | 73  | 69  |  | 76  | 72  | 69  | 67  |
| 6   | 86  | 76  | 70  | 65  | 84  | 75  | 69  | 65  | 74  | 69  | 65  |  | 72  | 68  | 64  |  | 71  | 67  | 64  | 62  |
| 7   | 81  | 71  | 65  | 60  | 80  | 70  | 64  | 60  | 69  | 64  | 60  |  | 68  | 63  | 59  |  | 67  | 62  | 59  | 58  |
| 8   | 77  | 67  | 60  | 56  | 75  | 66  | 60  | 56  | 65  | 59  | 56  |  | 64  | 59  | 55  |  | 63  | 58  | 55  | 54  |
| 9   | 73  | 62  | 56  | 52  | 72  | 62  | 56  | 52  | 61  | 56  | 52  |  | 60  | 55  | 52  |  | 59  | 55  | 51  | 50  |
| 10  | 69  | 59  | 53  | 48  | 68  | 58  | 52  | 48  | 57  | 52  | 48  |  | 57  | 52  | 48  |  | 56  | 51  | 48  | 47  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 279431 | 279431 | 279431 |
| 5°  | 268587 | 267135 | 266150 |
| 10° | 257685 | 256198 | 254485 |
| 15° | 251186 | 248423 | 248173 |
| 20° | 240677 | 238863 | 237323 |
| 25° | 222825 | 224421 | 220146 |
| 30° | 204672 | 208312 | 200476 |
| 35° | 168785 | 176774 | 162288 |
| 40° | 107464 | 115693 | 107464 |
| 45° | 7526   | 50003  | 8208   |
| 50° | 3403   | 10181  | 3403   |
| 55° | 3813   | 3813   | 3813   |
| 60° | 3858   | 3858   | 3858   |
| 65° | 3423   | 3994   | 3423   |
| 70° | 3525   | 4230   | 3525   |
| 75° | 3726   | 3726   | 3726   |
| 80° | 4166   | 4166   | 4166   |
| 85° | 2766   | 5533   | 2766   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 50003 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 144.8  | 8.4       |
| 10°-20°   | 392.0  | 22.7      |
| 20°-30°   | 538.8  | 31.1      |
| 30°-40°   | 493.5  | 28.5      |
| 40°-50°   | 131.0  | 7.6       |
| 50°-60°   | 11.7   | 0.7       |
| 60°-70°   | 9.5    | 0.5       |
| 70°-80°   | 6.3    | 0.4       |
| 80°-90°   | 2.4    | 0.1       |
| 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°    | 1075.6 | 62.2      |
| 0°-40°    | 1569.1 | 90.7      |
| 0°-60°    | 1711.8 | 98.9      |
| 0°-90°    | 1729.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1729.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1622 | 1622  | 1622 | 1622  | 1622 |      |
| 5°  | 1554 | 1547  | 1545 | 1542  | 1540 | 146  |
| 15° | 1409 | 1396  | 1393 | 1393  | 1392 | 395  |
| 25° | 1173 | 1177  | 1181 | 1167  | 1158 | 539  |
| 35° | 803  | 816   | 841  | 803   | 772  | 487  |
| 45° | 31   | 105   | 205  | 107   | 34   | 93   |
| 55° | 13   | 13    | 13   | 13    | 13   | 11   |
| 65° | 8    | 10    | 10   | 10    | 8    | 9    |
| 75° | 6    | 6     | 6    | 6     | 6    | 6    |
| 85° | 1    | 3     | 3    | 3     | 1    | 2    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1622.5 | 1622.5 | 1622.5 | 1622.5 | 1622.5 |
| 1°    | 1622.5 | 1619.7 | 1622.5 | 1622.5 | 1619.7 |
| 2°    | 1609.8 | 1607.0 | 1608.4 | 1607.0 | 1605.6 |
| 3°    | 1591.6 | 1587.3 | 1588.8 | 1585.9 | 1583.1 |
| 4°    | 1570.5 | 1566.3 | 1566.3 | 1564.9 | 1562.0 |
| 5°    | 1553.6 | 1546.6 | 1545.2 | 1542.4 | 1539.5 |
| 6°    | 1533.9 | 1526.9 | 1525.5 | 1521.3 | 1518.5 |
| 7°    | 1514.2 | 1508.6 | 1507.2 | 1501.6 | 1501.6 |
| 8°    | 1498.8 | 1491.7 | 1491.7 | 1484.7 | 1484.7 |
| 9°    | 1486.1 | 1477.7 | 1477.7 | 1472.1 | 1469.2 |
| 10°   | 1473.5 | 1465.0 | 1465.0 | 1458.0 | 1455.2 |
| 11°   | 1460.8 | 1453.8 | 1451.0 | 1446.7 | 1445.3 |
| 12°   | 1449.6 | 1439.7 | 1436.9 | 1435.5 | 1432.7 |
| 13°   | 1435.5 | 1425.7 | 1422.8 | 1421.4 | 1420.0 |
| 14°   | 1422.8 | 1410.2 | 1408.8 | 1406.0 | 1407.4 |
| 15°   | 1408.8 | 1396.1 | 1393.3 | 1393.3 | 1391.9 |
| 17.5° | 1365.2 | 1356.8 | 1352.5 | 1349.7 | 1346.9 |
| 20°   | 1313.2 | 1306.2 | 1303.3 | 1297.7 | 1294.9 |
| 22.5° | 1245.7 | 1244.3 | 1242.9 | 1235.9 | 1224.6 |
| 25°   | 1172.6 | 1176.8 | 1181.0 | 1167.0 | 1158.5 |
| 27.5° | 1102.3 | 1113.5 | 1117.8 | 1103.7 | 1085.4 |
| 30°   | 1029.2 | 1039.0 | 1047.5 | 1027.8 | 1008.1 |
| 32.5° | 923.7  | 947.6  | 960.3  | 937.8  | 892.8  |
| 35°   | 802.8  | 815.5  | 840.8  | 802.8  | 771.9  |
| 37.5° | 662.2  | 669.2  | 688.9  | 663.6  | 642.5  |
| 40°   | 478.0  | 499.1  | 514.6  | 499.1  | 478.0  |
| 42.5° | 215.1  | 300.9  | 340.2  | 317.8  | 225.0  |
| 45°   | 30.9   | 105.4  | 205.3  | 106.9  | 33.7   |
| 47.5° | 12.7   | 16.9   | 106.9  | 15.5   | 12.7   |
| 50°   | 12.7   | 12.7   | 38.0   | 12.7   | 12.7   |
| 52.5° | 12.7   | 12.7   | 14.1   | 12.7   | 12.7   |
| 55°   | 12.7   | 12.7   | 12.7   | 12.7   | 12.7   |
| 57.5° | 11.2   | 11.2   | 12.7   | 11.2   | 11.2   |
| 60°   | 11.2   | 11.2   | 11.2   | 11.2   | 11.2   |
| 62.5° | 9.8    | 11.2   | 11.2   | 11.2   | 9.8    |
| 65°   | 8.4    | 9.8    | 9.8    | 9.8    | 8.4    |
| 67.5° | 8.4    | 8.4    | 8.4    | 8.4    | 8.4    |
| 70°   | 7.0    | 8.4    | 8.4    | 8.4    | 7.0    |
| 72.5° | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    |
| 75°   | 5.6    | 5.6    | 5.6    | 5.6    | 5.6    |
| 77.5° | 4.2    | 5.6    | 5.6    | 5.6    | 4.2    |
| 80°   | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    |
| 82.5° | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    |
| 85°   | 1.4    | 2.8    | 2.8    | 2.8    | 1.4    |
| 87.5° | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |



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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)