

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: P1311052

Luminaire Tested: P3SQAS05R459050DE010 E3SQCD1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311052  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-44)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS05R459050DE010 E3SQCD1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 5000K CCT AND, 90CRI , E3SQCD1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

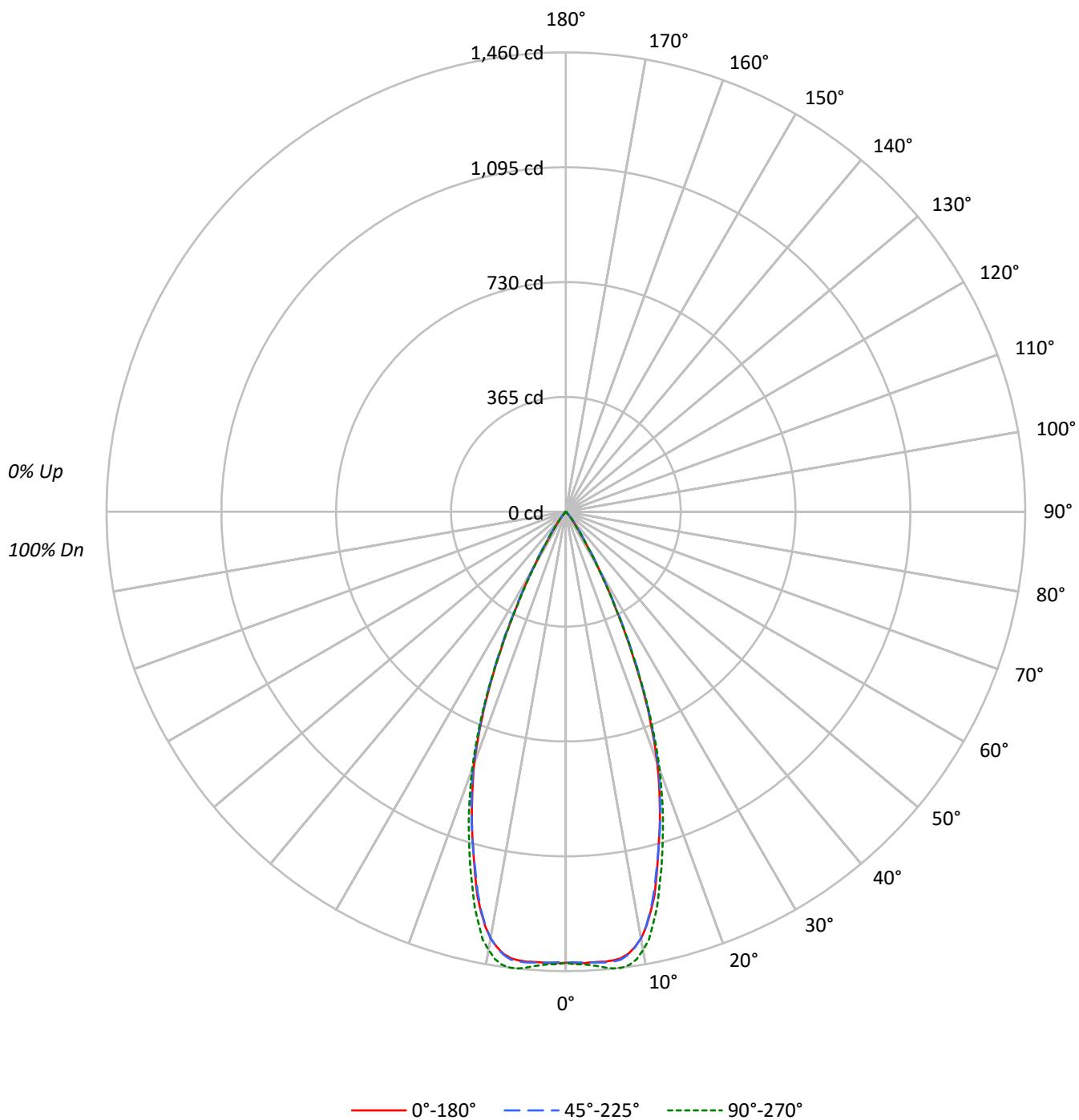
Lumens per Lamp: N/A  
Luminaire Lumens: 741.9 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Spacing Criteria (0/90/45): 0.72 / 0.73 / 0.67  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 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 | 102 | 102 | 100 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 97  | 97  | 95  |
| 2   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  | 98  | 96  | 94  | 95  | 94  | 92  | 92  | 92  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 91  | 94  | 91  | 89  | 92  | 90  | 88  | 88  | 88  | 86  |
| 4   | 101 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 88  | 86  | 90  | 87  | 85  | 88  | 86  | 84  | 84  | 84  | 82  |
| 5   | 98  | 91  | 86  | 82  | 96  | 90  | 85  | 82  | 88  | 84  | 81  | 87  | 83  | 81  | 85  | 82  | 80  | 80  | 80  | 79  |
| 6   | 94  | 86  | 82  | 78  | 93  | 86  | 81  | 78  | 84  | 80  | 77  | 83  | 79  | 77  | 82  | 79  | 76  | 76  | 76  | 75  |
| 7   | 90  | 83  | 78  | 74  | 89  | 82  | 77  | 74  | 81  | 77  | 74  | 80  | 76  | 73  | 79  | 75  | 73  | 73  | 73  | 72  |
| 8   | 87  | 79  | 74  | 71  | 86  | 79  | 74  | 71  | 78  | 73  | 70  | 77  | 73  | 70  | 76  | 72  | 70  | 70  | 70  | 69  |
| 9   | 84  | 76  | 71  | 68  | 83  | 75  | 71  | 68  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 70  | 67  | 67  | 67  | 66  |
| 10  | 81  | 73  | 68  | 65  | 80  | 72  | 68  | 65  | 72  | 67  | 65  | 71  | 67  | 64  | 70  | 67  | 64  | 64  | 64  | 63  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 246898 | 246898 | 246898 |
| 5°  | 248135 | 248602 | 251437 |
| 10° | 240774 | 240582 | 247280 |
| 15° | 201780 | 201691 | 209090 |
| 20° | 155986 | 157599 | 159798 |
| 25° | 95621  | 97598  | 95830  |
| 30° | 41006  | 42856  | 39694  |
| 35° | 12888  | 15516  | 12531  |
| 40° | 4429   | 5665   | 4294   |
| 45° | 804    | 2387   | 658    |
| 50° | 429    | 884    | 429    |
| 55° | 480    | 480    | 480    |
| 60° | 379    | 379    | 379    |
| 65° | 448    | 448    | 448    |
| 70° | 252    | 252    | 252    |
| 75° | 333    | 333    | 333    |
| 80° | 496    | 496    | 496    |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 2387 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 136.3  | 18.4      |
| 10°-20°   | 314.8  | 42.4      |
| 20°-30°   | 230.5  | 31.1      |
| 30°-40°   | 50.9   | 6.9       |
| 40°-50°   | 6.2    | 0.8       |
| 50°-60°   | 1.4    | 0.2       |
| 60°-70°   | 1.0    | 0.1       |
| 70°-80°   | 0.5    | 0.1       |
| 80°-90°   | 0.1    | 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°    | 681.6  | 91.9      |
| 0°-40°    | 732.6  | 98.7      |
| 0°-60°    | 740.2  | 99.8      |
| 0°-90°    | 741.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 741.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1434 | 1434  | 1434 | 1434  | 1434 |      |
| 5°  | 1435 | 1434  | 1438 | 1448  | 1454 | 136  |
| 15° | 1132 | 1126  | 1131 | 1158  | 1173 | 312  |
| 25° | 503  | 503   | 514  | 510   | 504  | 228  |
| 35° | 61   | 64    | 74   | 64    | 60   | 48   |
| 45° | 3    | 6     | 10   | 6     | 3    | 4    |
| 55° | 2    | 2     | 2    | 2     | 2    | 1    |
| 65° | 1    | 1     | 1    | 1     | 1    | 1    |
| 75° | 0    | 0     | 0    | 0     | 0    | 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°    | 1433.6 | 1433.6 | 1433.6 | 1433.6 | 1433.6 |
| 1°    | 1434.7 | 1432.6 | 1432.0 | 1435.8 | 1438.6 |
| 2°    | 1435.8 | 1433.1 | 1433.6 | 1437.5 | 1439.1 |
| 3°    | 1434.7 | 1432.0 | 1434.7 | 1440.2 | 1442.4 |
| 4°    | 1434.2 | 1433.1 | 1435.8 | 1443.5 | 1447.3 |
| 5°    | 1435.3 | 1434.2 | 1438.0 | 1448.4 | 1454.4 |
| 6°    | 1433.6 | 1432.0 | 1437.5 | 1450.6 | 1459.4 |
| 7°    | 1429.8 | 1428.2 | 1434.2 | 1450.1 | 1459.9 |
| 8°    | 1419.4 | 1416.1 | 1422.2 | 1441.9 | 1453.9 |
| 9°    | 1400.8 | 1396.5 | 1402.5 | 1425.4 | 1439.7 |
| 10°   | 1376.8 | 1371.8 | 1375.7 | 1398.1 | 1414.0 |
| 11°   | 1342.3 | 1335.7 | 1340.1 | 1364.2 | 1385.0 |
| 12°   | 1298.5 | 1289.2 | 1294.7 | 1322.1 | 1336.8 |
| 13°   | 1251.0 | 1242.2 | 1243.3 | 1267.9 | 1288.7 |
| 14°   | 1191.9 | 1180.4 | 1185.3 | 1211.0 | 1227.4 |
| 15°   | 1131.7 | 1125.7 | 1131.2 | 1158.5 | 1172.7 |
| 17.5° | 993.9  | 993.3  | 998.2  | 1018.5 | 1026.1 |
| 20°   | 851.1  | 852.7  | 859.9  | 870.8  | 871.9  |
| 22.5° | 682.1  | 682.6  | 690.3  | 698.0  | 696.3  |
| 25°   | 503.2  | 502.7  | 513.6  | 509.8  | 504.3  |
| 27.5° | 333.7  | 335.8  | 345.7  | 338.6  | 333.1  |
| 30°   | 206.2  | 210.6  | 215.5  | 206.8  | 199.6  |
| 32.5° | 111.6  | 118.7  | 125.8  | 118.1  | 111.0  |
| 35°   | 61.3   | 64.5   | 73.8   | 64.5   | 59.6   |
| 37.5° | 35.6   | 37.2   | 43.2   | 37.2   | 33.9   |
| 40°   | 19.7   | 22.4   | 25.2   | 22.4   | 19.1   |
| 42.5° | 8.2    | 12.6   | 15.3   | 12.6   | 8.2    |
| 45°   | 3.3    | 5.5    | 9.8    | 5.5    | 2.7    |
| 47.5° | 1.6    | 2.2    | 6.0    | 2.2    | 1.6    |
| 50°   | 1.6    | 1.6    | 3.3    | 1.6    | 1.6    |
| 52.5° | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 55°   | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 57.5° | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 60°   | 1.1    | 1.1    | 1.1    | 1.6    | 1.1    |
| 62.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 65°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 67.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 70°   | 0.5    | 0.5    | 0.5    | 1.1    | 0.5    |
| 72.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 75°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 77.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 80°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 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)