

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: P1305804

Luminaire Tested: P3SQASS09R509024DE010 E3SQCD1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1305804  
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: P3SQASS09R509024DE010 E3SQCD1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 2400K CCT AND, 90CRI , E3SQCD1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

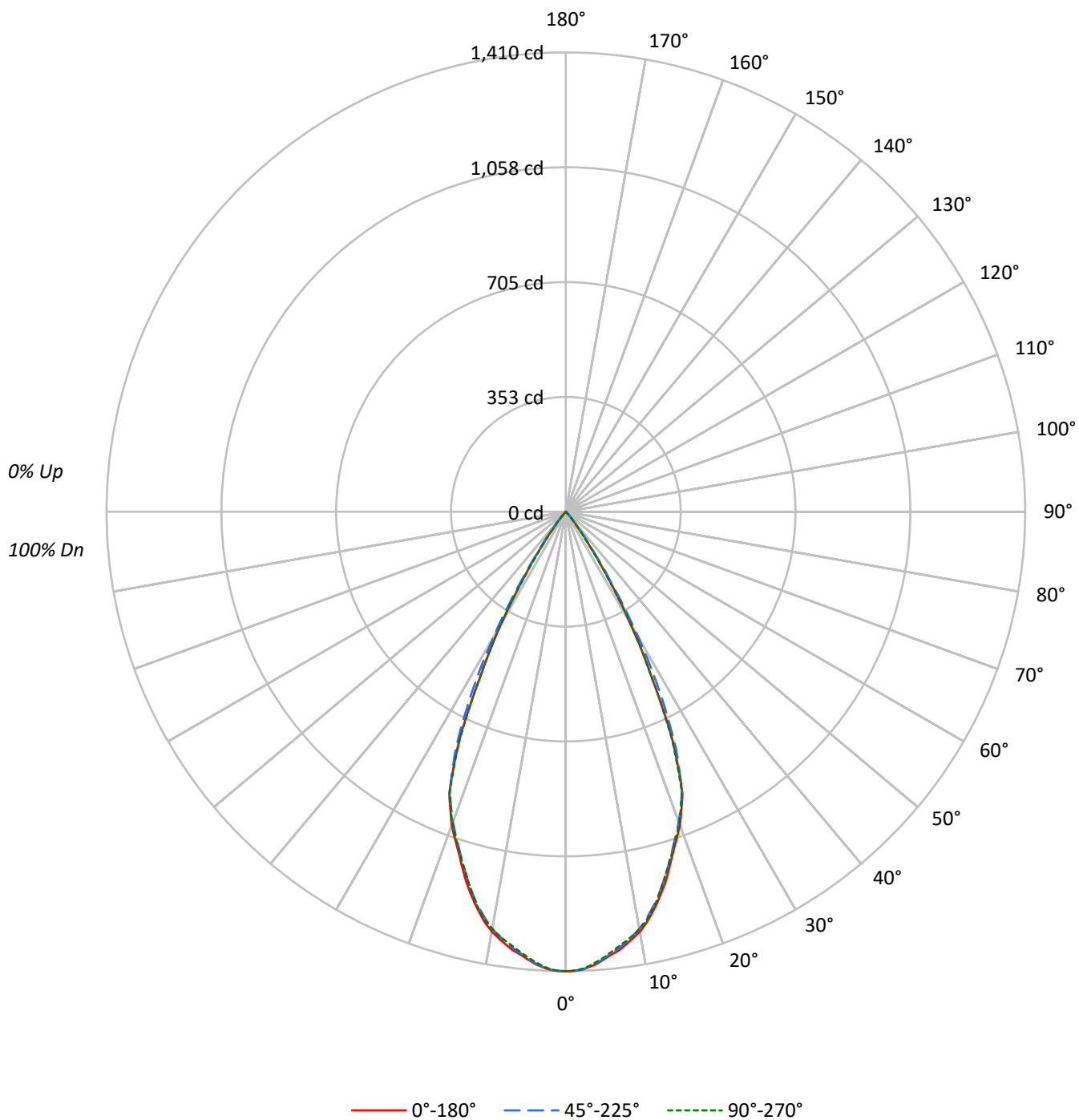
Lumens per Lamp: N/A  
Luminaire Lumens: 908.9 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.78  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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  | 80  | 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  | 71  | 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°  | 242920 | 242920 | 242920 |
| 5°  | 238160 | 237711 | 237054 |
| 10° | 228847 | 227256 | 227378 |
| 15° | 210071 | 208127 | 207895 |
| 20° | 187674 | 185658 | 186611 |
| 25° | 147499 | 151793 | 146283 |
| 30° | 78910  | 88416  | 79168  |
| 35° | 25776  | 30107  | 24283  |
| 40° | 6385   | 7981   | 6093   |
| 45° | 779    | 2825   | 779    |
| 50° | 509    | 857    | 509    |
| 55° | 570    | 570    | 570    |
| 60° | 448    | 448    | 448    |
| 65° | 530    | 530    | 530    |
| 70° | 302    | 302    | 302    |
| 75° | 399    | 399    | 399    |
| 80° | 595    | 595    | 595    |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 2825 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 129.0  | 14.2      |
| 10°-20°   | 326.2  | 35.9      |
| 20°-30°   | 343.1  | 37.7      |
| 30°-40°   | 98.9   | 10.9      |
| 40°-50°   | 8.0    | 0.9       |
| 50°-60°   | 1.7    | 0.2       |
| 60°-70°   | 1.2    | 0.1       |
| 70°-80°   | 0.6    | 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°    | 798.3  | 87.8      |
| 0°-40°    | 897.1  | 98.7      |
| 0°-60°    | 906.9  | 99.8      |
| 0°-90°    | 908.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 908.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1410 | 1410  | 1410 | 1410  | 1410 |      |
| 5°  | 1378 | 1377  | 1375 | 1376  | 1371 | 129  |
| 15° | 1178 | 1170  | 1167 | 1167  | 1166 | 328  |
| 25° | 776  | 796   | 799  | 790   | 770  | 336  |
| 35° | 123  | 127   | 143  | 123   | 116  | 95   |
| 45° | 3    | 6     | 12   | 6     | 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°    | 1410.5 | 1410.5 | 1410.5 | 1410.5 | 1410.5 |
| 1°    | 1409.9 | 1411.2 | 1408.6 | 1413.1 | 1409.2 |
| 2°    | 1406.6 | 1407.3 | 1406.0 | 1409.2 | 1404.1 |
| 3°    | 1398.9 | 1400.2 | 1397.6 | 1400.2 | 1395.7 |
| 4°    | 1389.9 | 1389.9 | 1387.3 | 1389.2 | 1383.4 |
| 5°    | 1377.6 | 1377.0 | 1375.0 | 1376.3 | 1371.2 |
| 6°    | 1364.7 | 1364.1 | 1360.8 | 1360.8 | 1357.0 |
| 7°    | 1355.0 | 1350.5 | 1347.9 | 1347.3 | 1343.4 |
| 8°    | 1339.5 | 1338.3 | 1333.1 | 1333.1 | 1330.5 |
| 9°    | 1324.1 | 1322.8 | 1317.0 | 1318.2 | 1316.3 |
| 10°   | 1308.6 | 1304.1 | 1299.5 | 1300.2 | 1300.2 |
| 11°   | 1287.9 | 1284.0 | 1277.6 | 1280.2 | 1281.5 |
| 12°   | 1263.4 | 1258.9 | 1253.1 | 1258.2 | 1257.6 |
| 13°   | 1236.3 | 1232.4 | 1227.9 | 1231.8 | 1230.5 |
| 14°   | 1207.9 | 1202.1 | 1198.2 | 1200.8 | 1199.5 |
| 15°   | 1178.2 | 1170.5 | 1167.3 | 1167.3 | 1166.0 |
| 17.5° | 1095.0 | 1090.5 | 1087.2 | 1085.3 | 1089.8 |
| 20°   | 1024.0 | 1020.1 | 1013.0 | 1015.0 | 1018.2 |
| 22.5° | 935.0  | 934.3  | 930.5  | 927.2  | 931.1  |
| 25°   | 776.2  | 795.6  | 798.8  | 789.8  | 769.8  |
| 27.5° | 563.9  | 609.1  | 625.2  | 604.0  | 567.2  |
| 30°   | 396.8  | 418.1  | 444.6  | 402.6  | 398.1  |
| 32.5° | 239.4  | 245.2  | 269.7  | 240.7  | 234.2  |
| 35°   | 122.6  | 127.1  | 143.2  | 122.6  | 115.5  |
| 37.5° | 57.4   | 60.0   | 66.5   | 57.4   | 53.6   |
| 40°   | 28.4   | 31.6   | 35.5   | 29.7   | 27.1   |
| 42.5° | 12.3   | 16.1   | 20.6   | 15.5   | 11.0   |
| 45°   | 3.2    | 6.5    | 11.6   | 6.5    | 3.2    |
| 47.5° | 1.9    | 2.6    | 6.5    | 2.6    | 1.9    |
| 50°   | 1.9    | 1.9    | 3.2    | 1.9    | 1.9    |
| 52.5° | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 55°   | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 57.5° | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 60°   | 1.3    | 1.9    | 1.3    | 1.9    | 1.3    |
| 62.5° | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 65°   | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 67.5° | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 70°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 72.5° | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 75°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 77.5° | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 80°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 82.5° | 0.0    | 0.6    | 0.0    | 0.6    | 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)