

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: P1306729

Luminaire Tested: P3SQAS09R309027DE010 E3SQPHL1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1306729  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS09R309027DE010 E3SQPHL1MMS  
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 90CRI , E3SQPHL1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

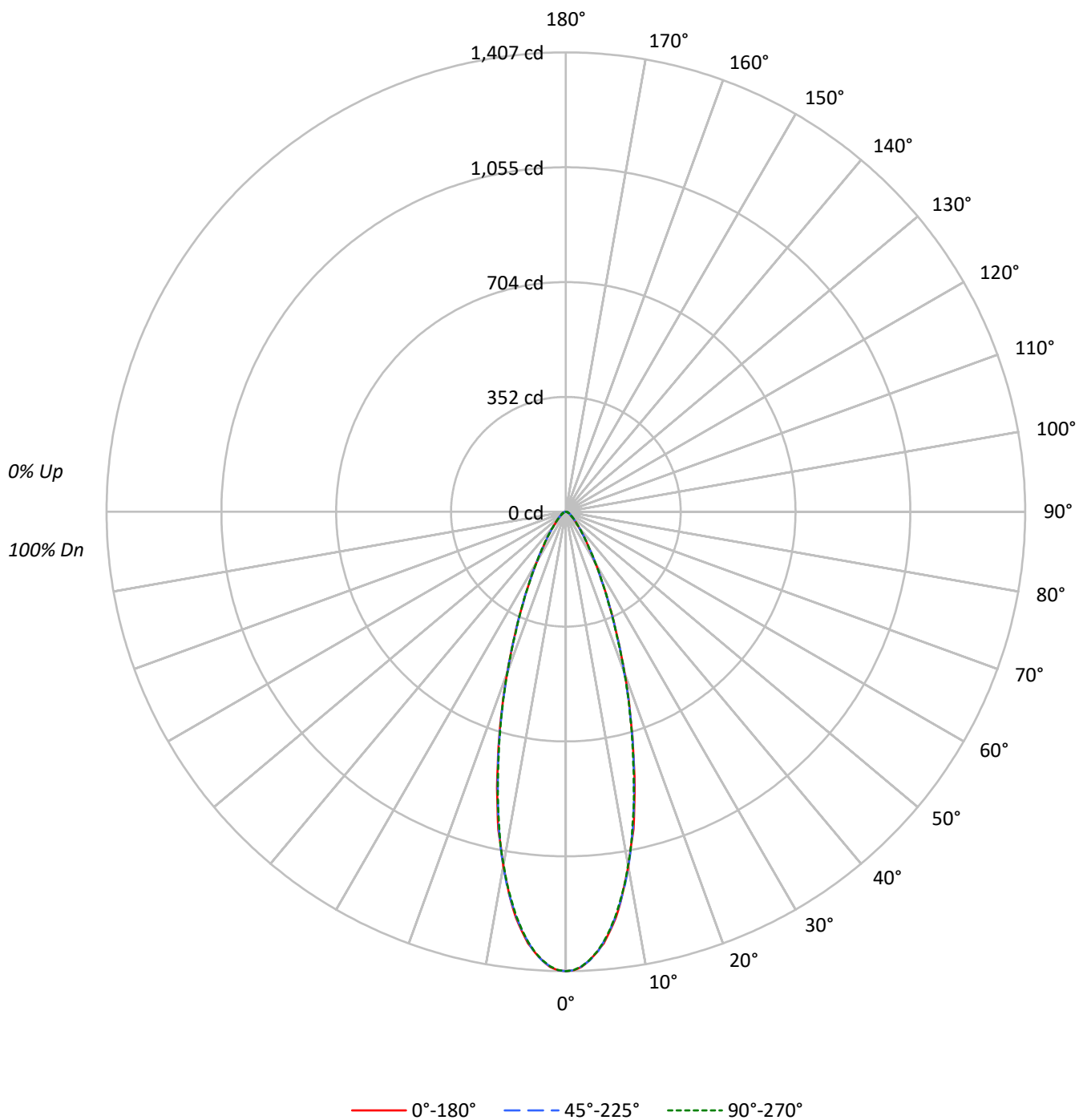
Lumens per Lamp: N/A  
Luminaire Lumens: 618.0 lumens  
Efficiency: N/A  
Efficacy: 55.7 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.57  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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 | 111 | 109 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 |  | 101 | 100 | 98  |  | 98  |
| 2   | 108 | 104 | 100 | 97  | 106 | 102 | 98  | 95  | 99  | 96  | 93  |  | 96  | 93  | 91  |  | 93  |
| 3   | 103 | 97  | 93  | 89  | 101 | 96  | 92  | 88  | 93  | 90  | 87  |  | 91  | 88  | 85  |  | 89  |
| 4   | 99  | 92  | 87  | 83  | 97  | 91  | 86  | 82  | 89  | 84  | 81  |  | 87  | 83  | 80  |  | 85  |
| 5   | 95  | 87  | 81  | 77  | 93  | 86  | 81  | 77  | 84  | 80  | 76  |  | 82  | 79  | 76  |  | 81  |
| 6   | 90  | 82  | 77  | 73  | 89  | 82  | 76  | 73  | 80  | 76  | 72  |  | 79  | 75  | 72  |  | 77  |
| 7   | 87  | 78  | 73  | 69  | 86  | 78  | 72  | 69  | 76  | 72  | 68  |  | 75  | 71  | 68  |  | 74  |
| 8   | 83  | 75  | 69  | 66  | 82  | 74  | 69  | 65  | 73  | 68  | 65  |  | 72  | 68  | 65  |  | 71  |
| 9   | 80  | 71  | 66  | 62  | 79  | 71  | 66  | 62  | 70  | 65  | 62  |  | 69  | 65  | 62  |  | 68  |
| 10  | 77  | 68  | 63  | 60  | 76  | 68  | 63  | 60  | 67  | 63  | 59  |  | 66  | 62  | 59  |  | 66  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 242352 | 242352 | 242352 |
| 5°  | 229447 | 228859 | 228738 |
| 10° | 192752 | 192752 | 192035 |
| 15° | 143619 | 143245 | 142389 |
| 20° | 96110  | 95615  | 95743  |
| 25° | 59250  | 59117  | 59383  |
| 30° | 35617  | 35617  | 35756  |
| 35° | 21844  | 21844  | 21992  |
| 40° | 13826  | 13826  | 14141  |
| 45° | 9499   | 9669   | 9669   |
| 50° | 6966   | 6966   | 6966   |
| 55° | 5345   | 5555   | 5555   |
| 60° | 4478   | 4478   | 4719   |
| 65° | 3912   | 3912   | 3912   |
| 70° | 3424   | 3777   | 3777   |
| 75° | 3194   | 3194   | 3194   |
| 80° | 2678   | 2678   | 2678   |
| 85° | 1383   | 1383   | 1383   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 9669 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 119.3  | 19.3      |
| 10°-20°   | 220.3  | 35.6      |
| 20°-30°   | 146.4  | 23.7      |
| 30°-40°   | 67.7   | 11.0      |
| 40°-50°   | 31.4   | 5.1       |
| 50°-60°   | 16.8   | 2.7       |
| 60°-70°   | 9.8    | 1.6       |
| 70°-80°   | 5.2    | 0.8       |
| 80°-90°   | 1.1    | 0.2       |
| 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       |
| 0°-30°    | 486.0  | 78.6      |
| 0°-40°    | 553.7  | 89.6      |
| 0°-60°    | 601.9  | 97.4      |
| 0°-90°    | 618.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 618.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1407 | 1407  | 1407 | 1407  | 1407 |      |
| 5°  | 1327 | 1324  | 1324 | 1327  | 1323 | 119  |
| 15° | 806  | 808   | 803  | 803   | 799  | 221  |
| 25° | 312  | 311   | 311  | 311   | 312  | 147  |
| 35° | 104  | 103   | 104  | 105   | 105  | 67   |
| 45° | 39   | 39    | 40   | 40    | 40   | 31   |
| 55° | 18   | 18    | 18   | 18    | 18   | 17   |
| 65° | 10   | 10    | 10   | 10    | 10   | 10   |
| 75° | 5    | 5     | 5    | 5     | 5    | 5    |
| 85° | 1    | 1     | 1    | 1     | 1    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1407.2 | 1407.2 | 1407.2 | 1407.2 | 1407.2 |
| 1°    | 1404.5 | 1403.1 | 1404.5 | 1406.5 | 1403.8 |
| 2°    | 1394.9 | 1393.5 | 1393.5 | 1396.2 | 1393.5 |
| 3°    | 1376.4 | 1377.8 | 1377.1 | 1379.8 | 1375.1 |
| 4°    | 1353.2 | 1352.5 | 1355.2 | 1356.6 | 1352.5 |
| 5°    | 1327.2 | 1324.5 | 1323.8 | 1327.2 | 1323.1 |
| 6°    | 1291.6 | 1289.6 | 1288.2 | 1292.3 | 1286.8 |
| 7°    | 1253.3 | 1252.0 | 1249.9 | 1251.3 | 1247.2 |
| 8°    | 1206.2 | 1205.5 | 1204.1 | 1205.5 | 1200.7 |
| 9°    | 1153.5 | 1153.5 | 1156.2 | 1155.6 | 1152.8 |
| 10°   | 1102.2 | 1103.6 | 1102.2 | 1103.6 | 1098.1 |
| 11°   | 1044.8 | 1044.8 | 1046.2 | 1045.5 | 1046.2 |
| 12°   | 994.9  | 989.4  | 988.0  | 986.7  | 982.6  |
| 13°   | 930.6  | 926.5  | 925.1  | 926.5  | 924.5  |
| 14°   | 871.8  | 869.1  | 862.2  | 863.6  | 860.9  |
| 15°   | 805.5  | 808.2  | 803.4  | 803.4  | 798.6  |
| 17.5° | 658.5  | 655.7  | 657.1  | 657.8  | 655.7  |
| 20°   | 524.4  | 523.1  | 521.7  | 520.3  | 522.4  |
| 22.5° | 407.5  | 408.2  | 406.8  | 405.5  | 404.1  |
| 25°   | 311.8  | 311.1  | 311.1  | 311.1  | 312.5  |
| 27.5° | 236.6  | 236.6  | 236.6  | 237.3  | 237.3  |
| 30°   | 179.1  | 177.8  | 179.1  | 179.8  | 179.8  |
| 32.5° | 134.0  | 135.4  | 136.1  | 136.1  | 136.1  |
| 35°   | 103.9  | 103.2  | 103.9  | 104.6  | 104.6  |
| 37.5° | 79.3   | 79.3   | 80.0   | 80.0   | 80.7   |
| 40°   | 61.5   | 61.5   | 61.5   | 62.2   | 62.9   |
| 42.5° | 48.5   | 48.5   | 49.2   | 49.2   | 49.9   |
| 45°   | 39.0   | 39.0   | 39.7   | 39.7   | 39.7   |
| 47.5° | 31.5   | 31.5   | 32.1   | 32.1   | 32.1   |
| 50°   | 26.0   | 26.0   | 26.0   | 26.0   | 26.0   |
| 52.5° | 21.9   | 21.2   | 21.9   | 21.9   | 21.9   |
| 55°   | 17.8   | 18.5   | 18.5   | 18.5   | 18.5   |
| 57.5° | 15.0   | 15.7   | 15.7   | 15.7   | 15.7   |
| 60°   | 13.0   | 13.0   | 13.0   | 13.7   | 13.7   |
| 62.5° | 10.9   | 11.6   | 11.6   | 11.6   | 11.6   |
| 65°   | 9.6    | 9.6    | 9.6    | 9.6    | 9.6    |
| 67.5° | 8.2    | 8.2    | 8.2    | 8.2    | 8.9    |
| 70°   | 6.8    | 6.8    | 7.5    | 7.5    | 7.5    |
| 72.5° | 6.2    | 6.2    | 6.2    | 6.2    | 6.2    |
| 75°   | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    |
| 77.5° | 3.4    | 3.4    | 4.1    | 4.1    | 3.4    |
| 80°   | 2.7    | 2.7    | 2.7    | 2.7    | 2.7    |
| 82.5° | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 85°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 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)