

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: P1311920

Luminaire Tested: P3SQAS02R209727DE010 E3SQPHL1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311920  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS02R209727DE010 E3SQPHL1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3SQPHL1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

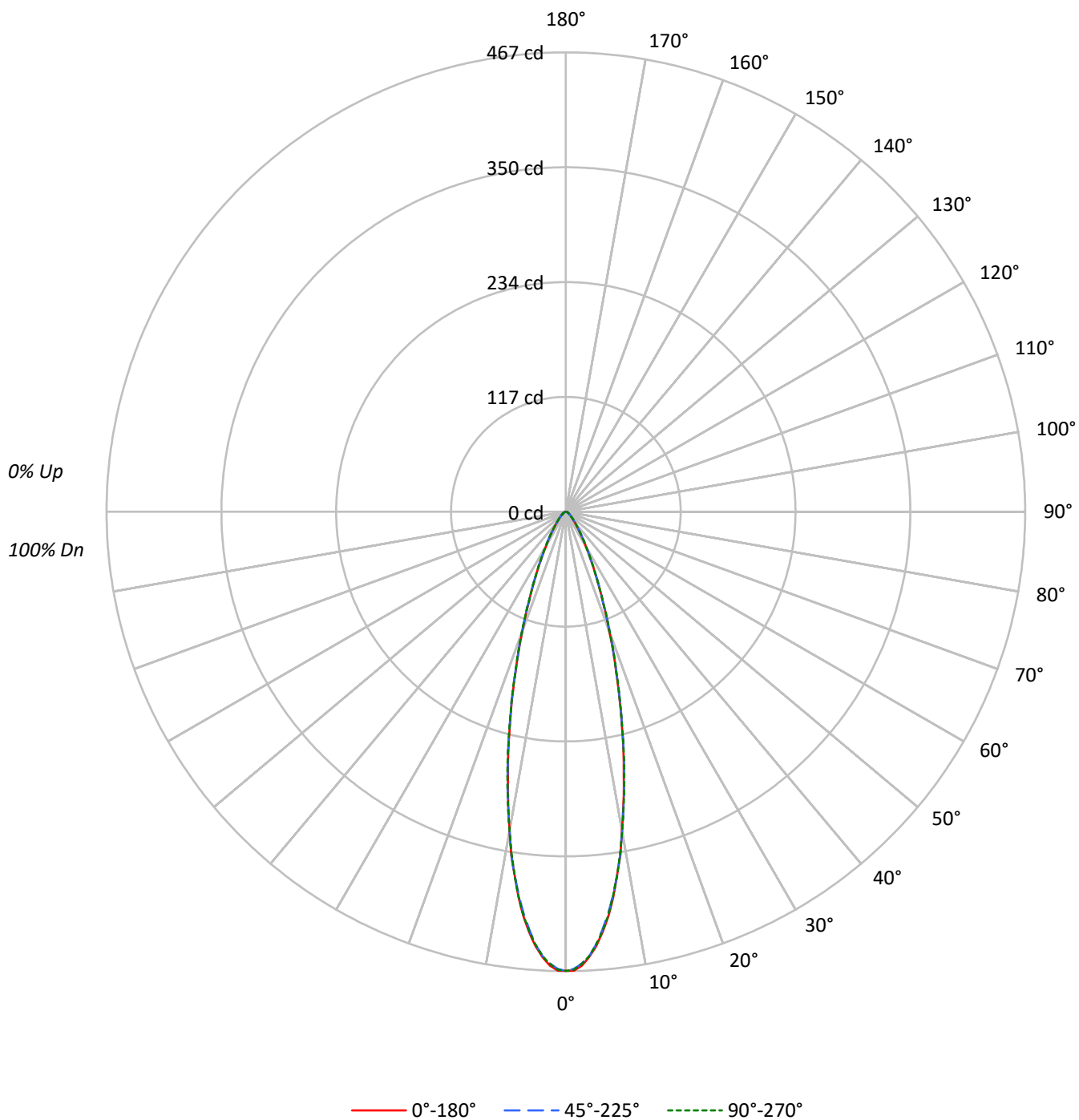
Lumens per Lamp: N/A  
Luminaire Lumens: 164.0 lumens  
Efficiency: N/A  
Efficacy: 45.5 lumens/watt  
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 |  | 101 | 100 | 99  |  | 98  |
| 2   | 109 | 104 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 97  | 94  |  | 96  | 94  | 92  |  | 94  |
| 3   | 104 | 98  | 94  | 90  | 102 | 97  | 93  | 89  | 94  | 91  | 88  |  | 92  | 89  | 87  |  | 90  |
| 4   | 100 | 93  | 88  | 84  | 98  | 92  | 87  | 84  | 90  | 86  | 83  |  | 88  | 84  | 82  |  | 86  |
| 5   | 96  | 88  | 83  | 79  | 94  | 87  | 82  | 79  | 86  | 81  | 78  |  | 84  | 80  | 77  |  | 82  |
| 6   | 92  | 84  | 79  | 75  | 90  | 83  | 78  | 75  | 82  | 77  | 74  |  | 80  | 77  | 74  |  | 79  |
| 7   | 88  | 80  | 75  | 71  | 87  | 80  | 75  | 71  | 78  | 74  | 71  |  | 77  | 73  | 70  |  | 76  |
| 8   | 85  | 77  | 72  | 68  | 84  | 76  | 71  | 68  | 75  | 71  | 68  |  | 74  | 70  | 67  |  | 73  |
| 9   | 82  | 74  | 69  | 65  | 81  | 73  | 68  | 65  | 72  | 68  | 65  |  | 71  | 67  | 65  |  | 71  |
| 10  | 79  | 71  | 66  | 62  | 78  | 70  | 66  | 62  | 70  | 65  | 62  |  | 69  | 65  | 62  |  | 68  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 80376 | 80376 | 80376 |
| 5°  | 74148 | 73716 | 73976 |
| 10° | 57535 | 57605 | 57605 |
| 15° | 38887 | 39065 | 39065 |
| 20° | 23624 | 23917 | 24027 |
| 25° | 13853 | 14043 | 14005 |
| 30° | 8074  | 8253  | 8293  |
| 35° | 4941  | 5067  | 5067  |
| 40° | 3215  | 3260  | 3305  |
| 45° | 2241  | 2289  | 2338  |
| 50° | 1634  | 1688  | 1688  |
| 55° | 1291  | 1351  | 1351  |
| 60° | 1137  | 1137  | 1206  |
| 65° | 1019  | 1019  | 1100  |
| 70° | 906   | 906   | 906   |
| 75° | 799   | 799   | 799   |
| 80° | 595   | 595   | 793   |
| 85° | 395   | 395   | 790   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2338 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.6   | 22.9      |
| 10°-20°   | 60.3   | 36.7      |
| 20°-30°   | 34.9   | 21.3      |
| 30°-40°   | 15.7   | 9.5       |
| 40°-50°   | 7.4    | 4.5       |
| 50°-60°   | 4.1    | 2.5       |
| 60°-70°   | 2.5    | 1.5       |
| 70°-80°   | 1.3    | 0.8       |
| 80°-90°   | 0.3    | 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°    | 132.8  | 81.0      |
| 0°-40°    | 148.4  | 90.5      |
| 0°-60°    | 159.9  | 97.5      |
| 0°-90°    | 164.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 164.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 467 | 467   | 467 | 467   | 467 |      |
| 5°  | 429 | 428   | 426 | 427   | 428 | 38   |
| 15° | 218 | 218   | 219 | 218   | 219 | 60   |
| 25° | 73  | 73    | 74  | 73    | 74  | 35   |
| 35° | 24  | 24    | 24  | 24    | 24  | 15   |
| 45° | 9   | 9     | 9   | 9     | 10  | 7    |
| 55° | 4   | 4     | 4   | 4     | 4   | 4    |
| 65° | 2   | 2     | 2   | 2     | 3   | 2    |
| 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°    | 466.7 | 466.7 | 466.7 | 466.7 | 466.7 |
| 1°    | 466.5 | 465.2 | 464.8 | 464.4 | 465.7 |
| 2°    | 461.8 | 460.3 | 459.5 | 459.9 | 460.1 |
| 3°    | 453.4 | 452.6 | 452.6 | 452.0 | 452.4 |
| 4°    | 442.6 | 440.9 | 440.9 | 441.1 | 441.1 |
| 5°    | 428.9 | 427.5 | 426.4 | 427.3 | 427.9 |
| 6°    | 413.6 | 411.7 | 410.9 | 411.1 | 412.6 |
| 7°    | 394.8 | 392.3 | 392.7 | 393.8 | 393.8 |
| 8°    | 373.5 | 373.3 | 373.7 | 373.3 | 373.7 |
| 9°    | 353.9 | 351.1 | 353.5 | 351.5 | 352.5 |
| 10°   | 329.0 | 328.8 | 329.4 | 330.0 | 329.4 |
| 12.5° | 272.2 | 273.3 | 273.7 | 272.9 | 274.7 |
| 15°   | 218.1 | 218.1 | 219.1 | 218.1 | 219.1 |
| 17.5° | 169.7 | 169.5 | 170.3 | 169.5 | 170.7 |
| 20°   | 128.9 | 130.3 | 130.5 | 130.5 | 131.1 |
| 22.5° | 97.2  | 97.2  | 98.0  | 98.2  | 97.8  |
| 25°   | 72.9  | 72.9  | 73.9  | 73.3  | 73.7  |
| 27.5° | 53.9  | 54.3  | 55.1  | 55.6  | 55.6  |
| 30°   | 40.6  | 40.8  | 41.5  | 41.7  | 41.7  |
| 32.5° | 30.6  | 31.0  | 31.5  | 31.7  | 31.9  |
| 35°   | 23.5  | 23.7  | 24.1  | 24.3  | 24.1  |
| 37.5° | 18.0  | 18.2  | 18.6  | 18.8  | 18.8  |
| 40°   | 14.3  | 14.3  | 14.5  | 14.7  | 14.7  |
| 42.5° | 11.2  | 11.4  | 11.4  | 11.6  | 11.6  |
| 45°   | 9.2   | 9.2   | 9.4   | 9.4   | 9.6   |
| 47.5° | 7.4   | 7.4   | 7.6   | 7.8   | 7.8   |
| 50°   | 6.1   | 6.1   | 6.3   | 6.3   | 6.3   |
| 52.5° | 5.1   | 5.1   | 5.3   | 5.3   | 5.3   |
| 55°   | 4.3   | 4.3   | 4.5   | 4.5   | 4.5   |
| 57.5° | 3.7   | 3.7   | 3.9   | 3.9   | 3.9   |
| 60°   | 3.3   | 3.3   | 3.3   | 3.3   | 3.5   |
| 62.5° | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   |
| 65°   | 2.5   | 2.5   | 2.5   | 2.5   | 2.7   |
| 67.5° | 2.0   | 2.0   | 2.0   | 2.0   | 2.2   |
| 70°   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   |
| 72.5° | 1.4   | 1.4   | 1.4   | 1.6   | 1.6   |
| 75°   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   |
| 77.5° | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 80°   | 0.6   | 0.6   | 0.6   | 0.8   | 0.8   |
| 82.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 85°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)