

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: P1316640

Luminaire Tested: P3SQAS02R159830DE010 E3SQPHL1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316640  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS02R159830DE010 E3SQPHL1MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 98CRI , E3SQPHL1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

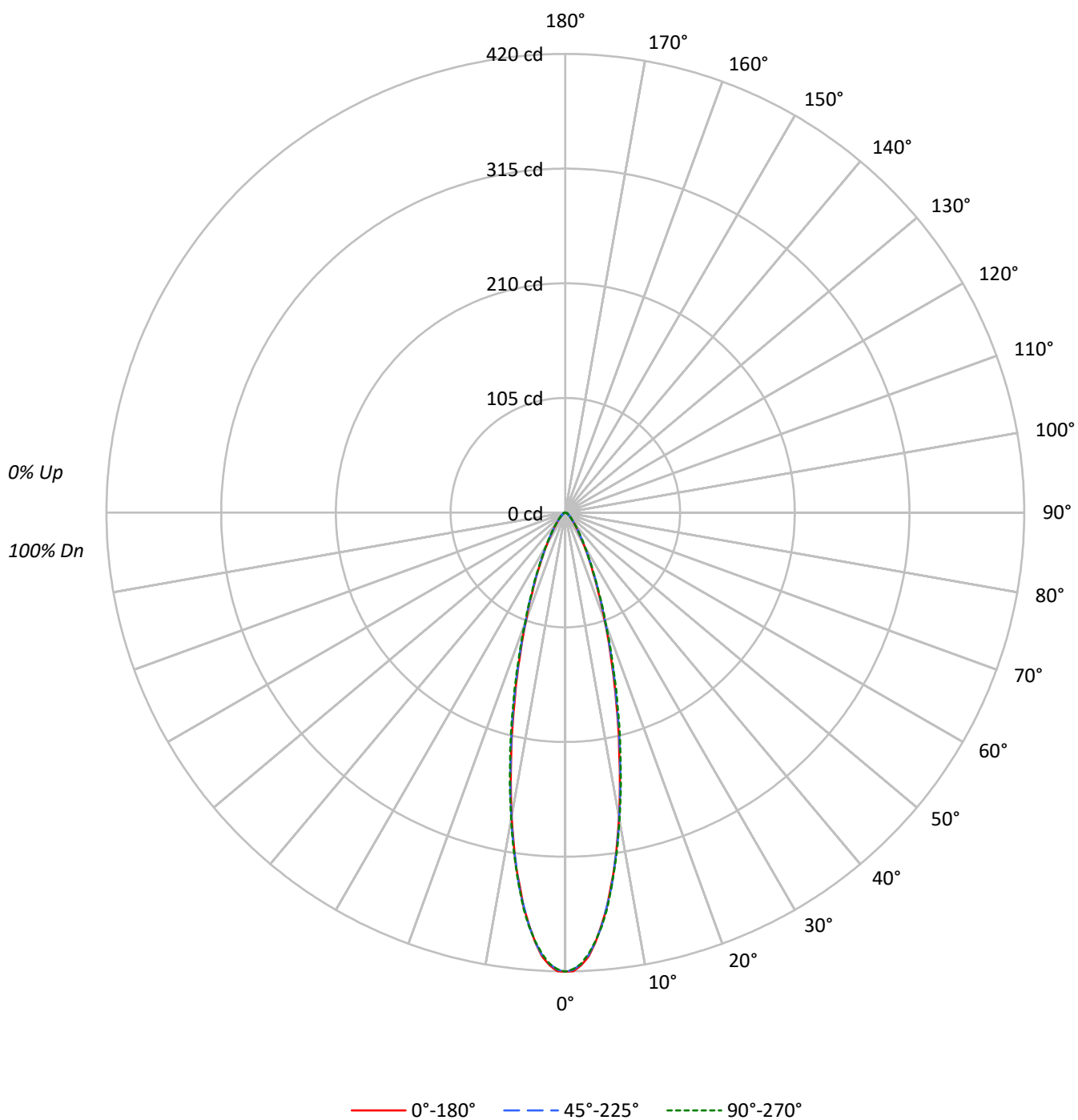
Lumens per Lamp: N/A  
Luminaire Lumens: 139.0 lumens  
Efficiency: N/A  
Efficacy: 38.6 lumens/watt  
Spacing Criteria (0/90/45): 0.45 / 0.46 / 0.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |  | 97  | 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  | 85  | 82  |  | 86  |
| 5   | 96  | 88  | 83  | 79  | 94  | 87  | 83  | 79  | 86  | 82  | 78  |  | 84  | 80  | 78  |  | 83  |
| 6   | 92  | 84  | 79  | 75  | 91  | 83  | 78  | 75  | 82  | 78  | 74  |  | 81  | 77  | 74  |  | 79  |
| 7   | 88  | 80  | 75  | 71  | 87  | 80  | 75  | 71  | 79  | 74  | 71  |  | 77  | 74  | 71  |  | 76  |
| 8   | 85  | 77  | 72  | 68  | 84  | 76  | 72  | 68  | 75  | 71  | 68  |  | 74  | 70  | 68  |  | 74  |
| 9   | 82  | 74  | 69  | 65  | 81  | 73  | 69  | 65  | 73  | 68  | 65  |  | 72  | 68  | 65  |  | 71  |
| 10  | 79  | 71  | 66  | 63  | 78  | 71  | 66  | 63  | 70  | 66  | 63  |  | 69  | 65  | 62  |  | 69  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 72385 | 72385 | 72385 |
| 5°  | 65574 | 65695 | 65781 |
| 10° | 49508 | 49631 | 49876 |
| 15° | 32111 | 32468 | 33092 |
| 20° | 19336 | 19555 | 19830 |
| 25° | 11288 | 11535 | 11706 |
| 30° | 6642  | 6841  | 6960  |
| 35° | 4100  | 4247  | 4310  |
| 40° | 2698  | 2765  | 2810  |
| 45° | 1875  | 1924  | 1948  |
| 50° | 1393  | 1447  | 1474  |
| 55° | 1111  | 1171  | 1171  |
| 60° | 999   | 999   | 999   |
| 65° | 856   | 856   | 856   |
| 70° | 705   | 806   | 806   |
| 75° | 732   | 732   | 732   |
| 80° | 496   | 694   | 694   |
| 85° | 395   | 395   | 395   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 1948 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 33.1   | 23.8      |
| 10°-20°   | 50.6   | 36.4      |
| 20°-30°   | 28.8   | 20.7      |
| 30°-40°   | 13.1   | 9.4       |
| 40°-50°   | 6.3    | 4.5       |
| 50°-60°   | 3.5    | 2.5       |
| 60°-70°   | 2.2    | 1.5       |
| 70°-80°   | 1.1    | 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°    | 112.5  | 80.9      |
| 0°-40°    | 125.6  | 90.4      |
| 0°-60°    | 135.4  | 97.4      |
| 0°-90°    | 139.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 139.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 420 | 420   | 420 | 420   | 420 |      |
| 5°  | 379 | 379   | 380 | 380   | 380 | 33   |
| 15° | 180 | 181   | 182 | 185   | 186 | 50   |
| 25° | 59  | 59    | 61  | 61    | 62  | 28   |
| 35° | 20  | 20    | 20  | 20    | 20  | 13   |
| 45° | 8   | 8     | 8   | 8     | 8   | 6    |
| 55° | 4   | 4     | 4   | 4     | 4   | 3    |
| 65° | 2   | 2     | 2   | 2     | 2   | 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°    | 420.3 | 420.3 | 420.3 | 420.3 | 420.3 |
| 1°    | 420.0 | 418.9 | 418.5 | 418.4 | 418.0 |
| 2°    | 414.6 | 413.7 | 413.5 | 413.5 | 413.4 |
| 3°    | 407.1 | 405.5 | 405.7 | 405.2 | 404.6 |
| 4°    | 394.4 | 393.7 | 394.1 | 394.4 | 393.7 |
| 5°    | 379.3 | 379.1 | 380.0 | 380.0 | 380.5 |
| 6°    | 363.6 | 363.4 | 362.9 | 364.3 | 365.0 |
| 7°    | 343.6 | 344.7 | 346.1 | 345.4 | 345.9 |
| 8°    | 325.4 | 324.1 | 324.7 | 326.4 | 326.6 |
| 9°    | 304.0 | 303.1 | 305.4 | 306.1 | 306.3 |
| 10°   | 283.1 | 284.0 | 283.8 | 286.3 | 285.2 |
| 12.5° | 228.6 | 230.1 | 231.7 | 232.7 | 233.8 |
| 15°   | 180.1 | 181.0 | 182.1 | 184.6 | 185.6 |
| 17.5° | 138.5 | 139.6 | 140.6 | 142.8 | 143.1 |
| 20°   | 105.5 | 106.0 | 106.7 | 108.7 | 108.2 |
| 22.5° | 78.9  | 79.8  | 80.5  | 81.4  | 81.9  |
| 25°   | 59.4  | 59.4  | 60.7  | 61.2  | 61.6  |
| 27.5° | 44.3  | 44.6  | 45.5  | 46.2  | 46.0  |
| 30°   | 33.4  | 33.9  | 34.4  | 34.8  | 35.0  |
| 32.5° | 25.7  | 25.7  | 26.2  | 26.8  | 27.0  |
| 35°   | 19.5  | 19.8  | 20.2  | 20.5  | 20.5  |
| 37.5° | 15.2  | 15.3  | 15.7  | 15.9  | 15.9  |
| 40°   | 12.0  | 12.0  | 12.3  | 12.5  | 12.5  |
| 42.5° | 9.5   | 9.6   | 9.8   | 10.0  | 10.0  |
| 45°   | 7.7   | 7.7   | 7.9   | 8.0   | 8.0   |
| 47.5° | 6.2   | 6.2   | 6.4   | 6.6   | 6.6   |
| 50°   | 5.2   | 5.4   | 5.4   | 5.5   | 5.5   |
| 52.5° | 4.5   | 4.5   | 4.5   | 4.6   | 4.6   |
| 55°   | 3.7   | 3.7   | 3.9   | 3.9   | 3.9   |
| 57.5° | 3.2   | 3.2   | 3.2   | 3.4   | 3.4   |
| 60°   | 2.9   | 2.9   | 2.9   | 2.9   | 2.9   |
| 62.5° | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   |
| 65°   | 2.1   | 2.1   | 2.1   | 2.1   | 2.1   |
| 67.5° | 1.8   | 1.8   | 1.8   | 2.0   | 2.0   |
| 70°   | 1.4   | 1.6   | 1.6   | 1.6   | 1.6   |
| 72.5° | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   |
| 75°   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   |
| 77.5° | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   |
| 80°   | 0.5   | 0.7   | 0.7   | 0.7   | 0.7   |
| 82.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 85°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)