

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: P1308217

Luminaire Tested: P3SQAS17R509030DE010 E3SQCD1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308217  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS17R509030DE010 E3SQCD1MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , E3SQCD1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

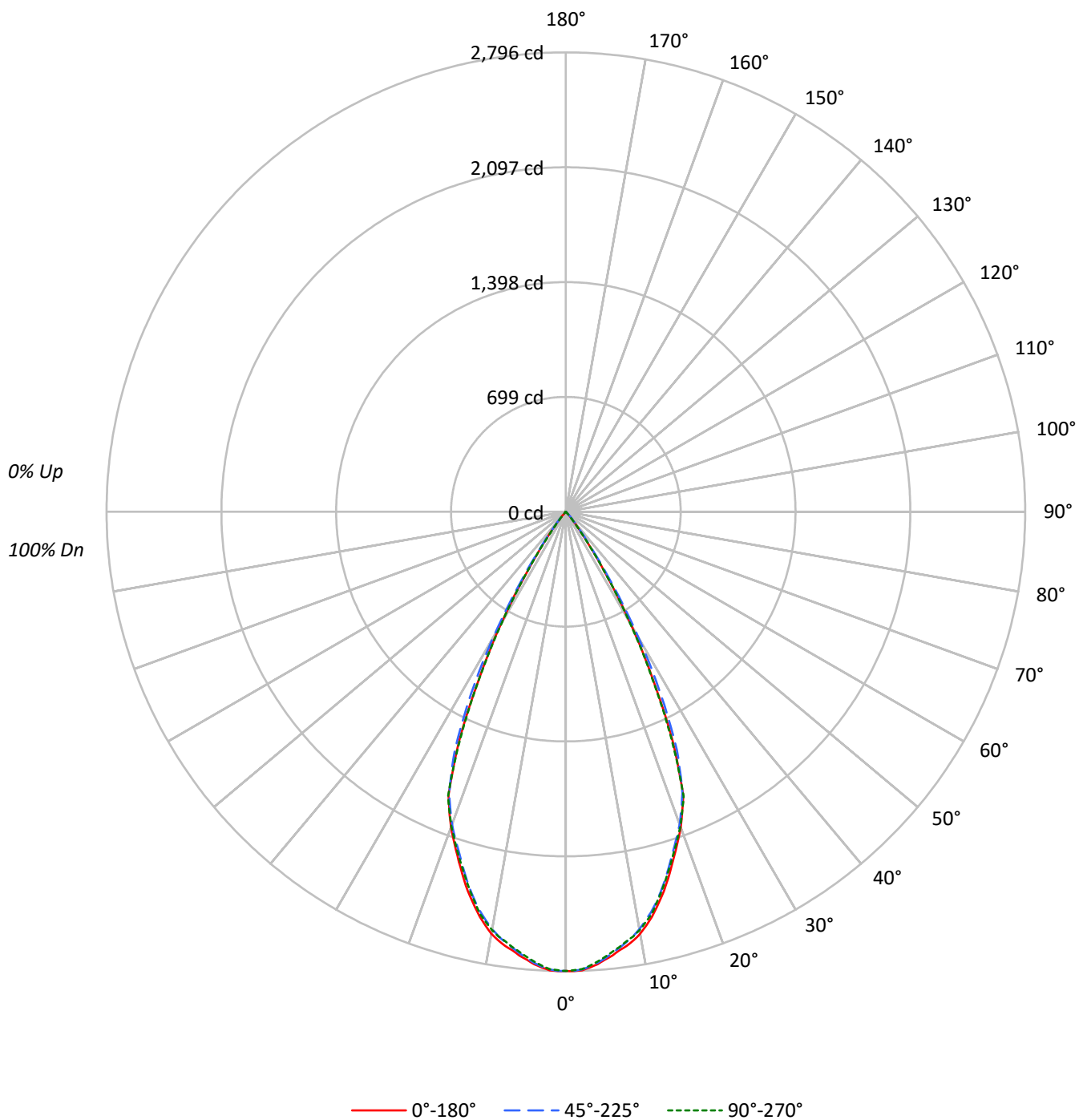
Lumens per Lamp: N/A  
Luminaire Lumens: 1800.0 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.78  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.2  
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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 114 | 112 | 109 | 107 | 112 | 110 | 108 | 106 | 106 | 104 | 102 |  | 102 | 101 | 99  |  | 98  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 98  | 95  |  | 97  | 95  | 93  |  | 95  |
| 3   | 105 | 99  | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 92  | 89  |  | 93  | 90  | 88  |  | 91  |
| 4   | 100 | 94  | 89  | 85  | 99  | 93  | 88  | 85  | 90  | 87  | 84  |  | 89  | 85  | 83  |  | 87  |
| 5   | 96  | 89  | 84  | 80  | 95  | 88  | 83  | 79  | 86  | 82  | 79  |  | 85  | 81  | 78  |  | 83  |
| 6   | 92  | 84  | 79  | 75  | 91  | 83  | 79  | 75  | 82  | 78  | 74  |  | 81  | 77  | 74  |  | 79  |
| 7   | 88  | 80  | 75  | 71  | 87  | 79  | 74  | 71  | 78  | 74  | 70  |  | 77  | 73  | 70  |  | 76  |
| 8   | 85  | 76  | 71  | 67  | 83  | 76  | 71  | 67  | 75  | 70  | 67  |  | 74  | 70  | 67  |  | 73  |
| 9   | 81  | 73  | 67  | 64  | 80  | 72  | 67  | 64  | 71  | 67  | 64  |  | 70  | 66  | 63  |  | 70  |
| 10  | 78  | 69  | 64  | 61  | 77  | 69  | 64  | 61  | 68  | 64  | 60  |  | 67  | 63  | 60  |  | 67  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 481397 | 481397 | 481397 |
| 5°  | 473001 | 471670 | 470339 |
| 10° | 456173 | 451224 | 452133 |
| 15° | 419642 | 414365 | 415506 |
| 20° | 374725 | 371188 | 373314 |
| 25° | 291634 | 303872 | 288460 |
| 30° | 157979 | 176414 | 155155 |
| 35° | 49807  | 59289  | 48735  |
| 40° | 10994  | 15333  | 10432  |
| 45° | 317    | 4701   | 317    |
| 50° | 0      | 697    | 0      |
| 55° | 0      | 0      | 0      |
| 60° | 0      | 0      | 0      |
| 65° | 0      | 0      | 0      |
| 70° | 0      | 0      | 0      |
| 75° | 0      | 0      | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 4701 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 256.1  | 14.2      |
| 10°-20°   | 650.7  | 36.1      |
| 20°-30°   | 685.3  | 38.1      |
| 30°-40°   | 195.7  | 10.9      |
| 40°-50°   | 12.1   | 0.7       |
| 50°-60°   | 0.1    | 0.0       |
| 60°-70°   | 0.0    | 0.0       |
| 70°-80°   | 0.0    | 0.0       |
| 80°-90°   | 0.0    | 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°    | 1592.1 | 88.4      |
| 0°-40°    | 1787.8 | 99.3      |
| 0°-60°    | 1800.0 | 100.0     |
| 0°-90°    | 1800.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1800.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2795 | 2795  | 2795 | 2795  | 2795 |      |
| 5°  | 2736 | 2733  | 2728 | 2726  | 2721 | 257  |
| 15° | 2354 | 2338  | 2324 | 2328  | 2330 | 656  |
| 25° | 1535 | 1591  | 1599 | 1581  | 1518 | 671  |
| 35° | 237  | 254   | 282  | 240   | 232  | 185  |
| 45° | 1    | 6     | 19   | 6     | 1    | 8    |
| 55° | 0    | 0     | 0    | 0     | 0    | 0    |
| 65° | 0    | 0     | 0    | 0     | 0    | 0    |
| 75° | 0    | 0     | 0    | 0     | 0    | 0    |
| 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°    | 2795.2 | 2795.2 | 2795.2 | 2795.2 | 2795.2 |
| 1°    | 2796.5 | 2797.8 | 2795.2 | 2797.8 | 2791.4 |
| 2°    | 2792.7 | 2790.1 | 2787.5 | 2788.8 | 2784.9 |
| 3°    | 2778.5 | 2777.2 | 2772.1 | 2773.4 | 2768.2 |
| 4°    | 2760.5 | 2756.6 | 2752.8 | 2750.2 | 2745.0 |
| 5°    | 2736.0 | 2733.4 | 2728.3 | 2725.7 | 2720.6 |
| 6°    | 2715.4 | 2710.3 | 2701.3 | 2698.7 | 2693.5 |
| 7°    | 2688.4 | 2685.8 | 2674.2 | 2671.6 | 2669.1 |
| 8°    | 2667.8 | 2660.1 | 2645.9 | 2647.2 | 2640.7 |
| 9°    | 2640.7 | 2630.4 | 2616.3 | 2616.3 | 2617.6 |
| 10°   | 2608.5 | 2593.1 | 2580.2 | 2584.1 | 2585.4 |
| 11°   | 2566.1 | 2555.8 | 2536.4 | 2545.5 | 2545.5 |
| 12°   | 2519.7 | 2506.8 | 2492.7 | 2500.4 | 2505.5 |
| 13°   | 2465.6 | 2455.3 | 2442.5 | 2450.2 | 2447.6 |
| 14°   | 2412.8 | 2393.5 | 2384.5 | 2394.8 | 2391.0 |
| 15°   | 2353.6 | 2338.2 | 2324.0 | 2327.9 | 2330.4 |
| 17.5° | 2195.3 | 2178.5 | 2168.2 | 2169.5 | 2181.1 |
| 20°   | 2044.6 | 2038.2 | 2025.3 | 2030.4 | 2036.9 |
| 22.5° | 1866.9 | 1869.5 | 1854.1 | 1857.9 | 1873.4 |
| 25°   | 1534.7 | 1591.4 | 1599.1 | 1581.1 | 1518.0 |
| 27.5° | 1136.9 | 1221.9 | 1247.6 | 1206.4 | 1129.2 |
| 30°   | 794.4  | 817.6  | 887.1  | 808.6  | 780.2  |
| 32.5° | 466.1  | 500.9  | 538.2  | 484.1  | 464.8  |
| 35°   | 236.9  | 253.6  | 282.0  | 239.5  | 231.8  |
| 37.5° | 109.4  | 117.2  | 128.8  | 109.4  | 103.0  |
| 40°   | 48.9   | 57.9   | 68.2   | 55.4   | 46.4   |
| 42.5° | 15.5   | 27.0   | 36.1   | 24.5   | 14.2   |
| 45°   | 1.3    | 6.4    | 19.3   | 6.4    | 1.3    |
| 47.5° | 0.0    | 1.3    | 7.7    | 1.3    | 0.0    |
| 50°   | 0.0    | 0.0    | 2.6    | 0.0    | 0.0    |
| 52.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 55°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)