

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: P1312199

Luminaire Tested: P3SQAS05R709727DE010 E3SQCD1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312199  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-43)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS05R709727DE010 E3SQCD1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3SQCD1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

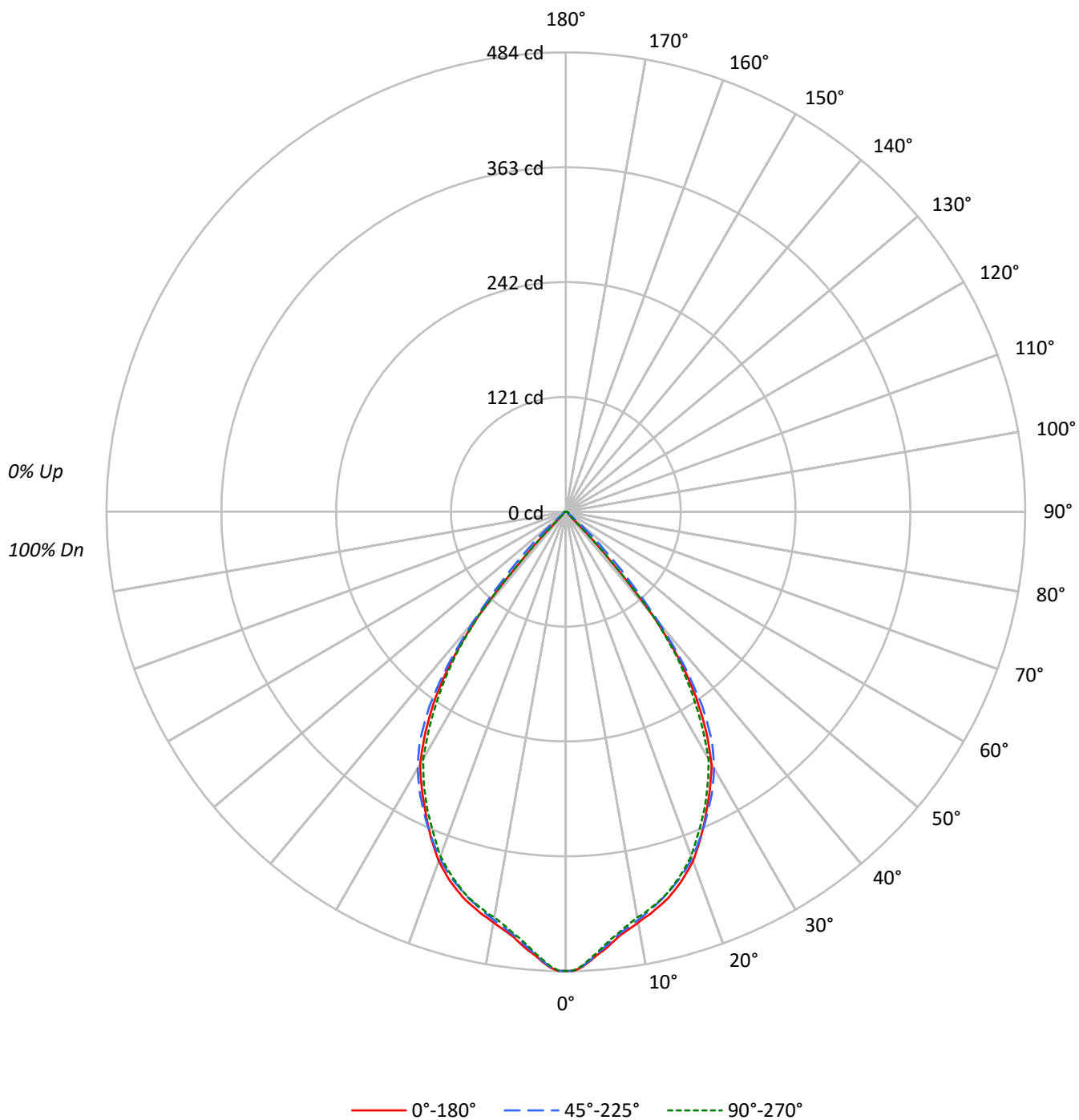
Lumens per Lamp: N/A  
Luminaire Lumens: 516.0 lumens  
Efficiency: N/A  
Efficacy: 71.7 lumens/watt  
Spacing Criteria (0/90/45): 1 / 0.98 / 1.03  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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   | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 |  | 100 | 99  | 97  |  | 97  |
| 2   | 107 | 102 | 98  | 94  | 105 | 100 | 96  | 93  | 97  | 94  | 91  |  | 94  | 91  | 89  |  | 91  |
| 3   | 101 | 95  | 89  | 85  | 99  | 93  | 88  | 84  | 90  | 86  | 83  |  | 88  | 85  | 82  |  | 86  |
| 4   | 96  | 88  | 82  | 77  | 94  | 87  | 81  | 77  | 84  | 80  | 76  |  | 82  | 78  | 75  |  | 81  |
| 5   | 91  | 82  | 75  | 71  | 89  | 81  | 75  | 71  | 79  | 74  | 70  |  | 77  | 73  | 69  |  | 76  |
| 6   | 86  | 76  | 70  | 65  | 84  | 75  | 69  | 65  | 74  | 69  | 65  |  | 72  | 68  | 64  |  | 71  |
| 7   | 81  | 71  | 65  | 60  | 80  | 70  | 64  | 60  | 69  | 64  | 60  |  | 68  | 63  | 59  |  | 67  |
| 8   | 77  | 67  | 60  | 56  | 75  | 66  | 60  | 56  | 65  | 59  | 56  |  | 64  | 59  | 55  |  | 63  |
| 9   | 73  | 62  | 56  | 52  | 72  | 62  | 56  | 52  | 61  | 56  | 52  |  | 60  | 55  | 52  |  | 59  |
| 10  | 69  | 59  | 53  | 48  | 68  | 58  | 52  | 48  | 57  | 52  | 48  |  | 57  | 52  | 48  |  | 56  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 83339 | 83339 | 83339 |
| 5°  | 80113 | 79681 | 79387 |
| 10° | 76860 | 76422 | 75898 |
| 15° | 74921 | 74101 | 74029 |
| 20° | 71789 | 71239 | 70781 |
| 25° | 66452 | 66946 | 65654 |
| 30° | 61052 | 62126 | 59799 |
| 35° | 50354 | 52729 | 48398 |
| 40° | 32059 | 34510 | 32059 |
| 45° | 2241  | 14906 | 2460  |
| 50° | 1018  | 3028  | 1018  |
| 55° | 1141  | 1141  | 1141  |
| 60° | 1171  | 1171  | 1171  |
| 65° | 1019  | 1182  | 1019  |
| 70° | 1057  | 1259  | 1057  |
| 75° | 1131  | 1131  | 1131  |
| 80° | 1289  | 1289  | 1289  |
| 85° | 790   | 1581  | 790   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 14906 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 43.2   | 8.4       |
| 10°-20°   | 116.9  | 22.7      |
| 20°-30°   | 160.7  | 31.1      |
| 30°-40°   | 147.2  | 28.5      |
| 40°-50°   | 39.1   | 7.6       |
| 50°-60°   | 3.5    | 0.7       |
| 60°-70°   | 2.8    | 0.6       |
| 70°-80°   | 1.9    | 0.4       |
| 80°-90°   | 0.7    | 0.1       |
| 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°    | 320.8  | 62.2      |
| 0°-40°    | 468.0  | 90.7      |
| 0°-60°    | 510.6  | 98.9      |
| 0°-90°    | 516.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 516.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 484 | 484   | 484 | 484   | 484 |      |
| 5°  | 463 | 461   | 461 | 460   | 459 | 43   |
| 15° | 420 | 416   | 416 | 416   | 415 | 118  |
| 25° | 350 | 351   | 352 | 348   | 346 | 161  |
| 35° | 240 | 243   | 251 | 240   | 230 | 145  |
| 45° | 9   | 32    | 61  | 32    | 10  | 28   |
| 55° | 4   | 4     | 4   | 4     | 4   | 3    |
| 65° | 2   | 3     | 3   | 3     | 2   | 3    |
| 75° | 2   | 2     | 2   | 2     | 2   | 2    |
| 85° | 0   | 1     | 1   | 1     | 0   | 1    |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 483.9 | 483.9 | 483.9 | 483.9 | 483.9 |
| 1°    | 483.9 | 483.1 | 483.9 | 483.9 | 483.1 |
| 2°    | 480.2 | 479.3 | 479.7 | 479.3 | 478.9 |
| 3°    | 474.7 | 473.5 | 473.9 | 473.0 | 472.2 |
| 4°    | 468.4 | 467.2 | 467.2 | 466.7 | 465.9 |
| 5°    | 463.4 | 461.3 | 460.9 | 460.0 | 459.2 |
| 6°    | 457.5 | 455.4 | 455.0 | 453.7 | 452.9 |
| 7°    | 451.6 | 450.0 | 449.5 | 447.9 | 447.9 |
| 8°    | 447.0 | 444.9 | 444.9 | 442.8 | 442.8 |
| 9°    | 443.3 | 440.7 | 440.7 | 439.1 | 438.2 |
| 10°   | 439.5 | 437.0 | 437.0 | 434.9 | 434.0 |
| 11°   | 435.7 | 433.6 | 432.8 | 431.5 | 431.1 |
| 12°   | 432.4 | 429.4 | 428.6 | 428.2 | 427.3 |
| 13°   | 428.2 | 425.2 | 424.4 | 424.0 | 423.5 |
| 14°   | 424.4 | 420.6 | 420.2 | 419.4 | 419.8 |
| 15°   | 420.2 | 416.4 | 415.6 | 415.6 | 415.2 |
| 17.5° | 407.2 | 404.7 | 403.4 | 402.6 | 401.7 |
| 20°   | 391.7 | 389.6 | 388.7 | 387.1 | 386.2 |
| 22.5° | 371.5 | 371.1 | 370.7 | 368.6 | 365.3 |
| 25°   | 349.7 | 351.0 | 352.3 | 348.1 | 345.5 |
| 27.5° | 328.8 | 332.1 | 333.4 | 329.2 | 323.7 |
| 30°   | 307.0 | 309.9 | 312.4 | 306.5 | 300.7 |
| 32.5° | 275.5 | 282.6 | 286.4 | 279.7 | 266.3 |
| 35°   | 239.5 | 243.2 | 250.8 | 239.5 | 230.2 |
| 37.5° | 197.5 | 199.6 | 205.5 | 197.9 | 191.6 |
| 40°   | 142.6 | 148.9 | 153.5 | 148.9 | 142.6 |
| 42.5° | 64.2  | 89.7  | 101.5 | 94.8  | 67.1  |
| 45°   | 9.2   | 31.5  | 61.2  | 31.9  | 10.1  |
| 47.5° | 3.8   | 5.0   | 31.9  | 4.6   | 3.8   |
| 50°   | 3.8   | 3.8   | 11.3  | 3.8   | 3.8   |
| 52.5° | 3.8   | 3.8   | 4.2   | 3.8   | 3.8   |
| 55°   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   |
| 57.5° | 3.4   | 3.4   | 3.8   | 3.4   | 3.4   |
| 60°   | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   |
| 62.5° | 2.9   | 3.4   | 3.4   | 3.4   | 2.9   |
| 65°   | 2.5   | 2.9   | 2.9   | 2.9   | 2.5   |
| 67.5° | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   |
| 70°   | 2.1   | 2.5   | 2.5   | 2.5   | 2.1   |
| 72.5° | 2.1   | 2.1   | 2.1   | 2.1   | 2.1   |
| 75°   | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   |
| 77.5° | 1.3   | 1.7   | 1.7   | 1.7   | 1.3   |
| 80°   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   |
| 82.5° | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   |
| 85°   | 0.4   | 0.8   | 0.8   | 0.8   | 0.4   |
| 87.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |



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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)