

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: P1308881

Luminaire Tested: P3SQAS05R709035DE010 E3SQCA451MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308881  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS05R709035DE010 E3SQCA451MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 90CRI , E3SQCA451MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

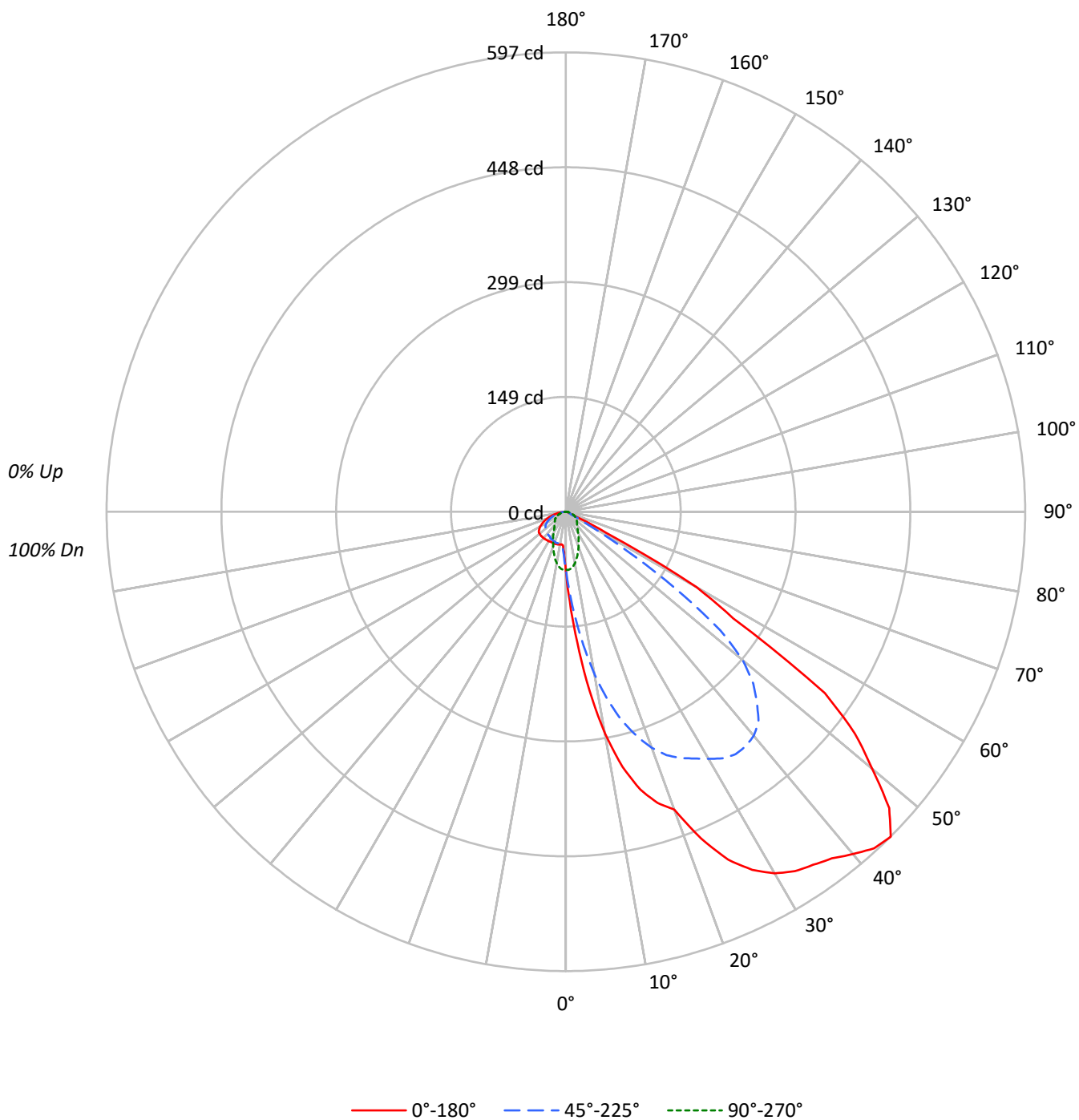
Lumens per Lamp: N/A  
Luminaire Lumens: 516.0 lumens  
Efficiency: N/A  
Efficacy: 71.7 lumens/watt  
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 110 | 106 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  |  | 96  | 94  | 92  |  | 93  | 91  | 89  | 87  |
| 2   | 101 | 94  | 88  | 83  | 99  | 92  | 87  | 82  | 89  | 84  | 80  |  | 86  | 82  | 78  |  | 83  | 79  | 77  | 75  |
| 3   | 93  | 83  | 76  | 70  | 90  | 82  | 75  | 69  | 79  | 73  | 68  |  | 76  | 71  | 67  |  | 74  | 69  | 66  | 64  |
| 4   | 85  | 74  | 66  | 59  | 83  | 72  | 65  | 59  | 70  | 63  | 58  |  | 68  | 62  | 57  |  | 66  | 61  | 57  | 54  |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 57  | 51  | 63  | 55  | 50  |  | 61  | 54  | 49  |  | 59  | 53  | 49  | 47  |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  |  | 54  | 48  | 43  |  | 53  | 47  | 43  | 41  |
| 7   | 66  | 53  | 44  | 38  | 65  | 52  | 44  | 38  | 51  | 43  | 38  |  | 49  | 43  | 38  |  | 48  | 42  | 37  | 35  |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 33  |  | 45  | 38  | 33  |  | 44  | 38  | 33  | 31  |
| 9   | 57  | 44  | 35  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  |  | 41  | 34  | 30  |  | 40  | 34  | 29  | 28  |
| 10  | 53  | 40  | 32  | 27  | 52  | 39  | 32  | 27  | 38  | 31  | 27  |  | 37  | 31  | 26  |  | 37  | 31  | 26  | 25  |

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

|     | 0°     | 45°   | 90°   | 135°  | 180°  |
|-----|--------|-------|-------|-------|-------|
| 0°  | 12951  | 12951 | 12951 | 12951 | 12951 |
| 5°  | 29459  | 23581 | 12810 | 8091  | 7572  |
| 10° | 51047  | 37459 | 11892 | 7380  | 7555  |
| 15° | 66648  | 50030 | 10377 | 7524  | 7809  |
| 20° | 75491  | 59821 | 8871  | 7643  | 8119  |
| 25° | 94804  | 67117 | 7430  | 7734  | 8323  |
| 30° | 107904 | 73719 | 6344  | 7875  | 8810  |
| 35° | 117758 | 80860 | 5529  | 8010  | 9314  |
| 40° | 130553 | 85409 | 5103  | 8341  | 10072 |
| 45° | 145454 | 85514 | 5017  | 8768  | 10911 |
| 50° | 139324 | 80406 | 4957  | 9244  | 11869 |
| 55° | 123347 | 52095 | 5104  | 9728  | 12821 |
| 60° | 67546  | 11160 | 5132  | 9920  | 13296 |
| 65° | 4809   | 2730  | 5053  | 9862  | 13407 |
| 70° | 2316   | 2568  | 4683  | 9316  | 12941 |
| 75° | 2063   | 2728  | 4458  | 8917  | 11978 |
| 80° | 2083   | 2579  | 4066  | 8133  | 11207 |
| 85° | 1976   | 2964  | 4150  | 7114  | 10078 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 145454 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 9.8    | 1.9       |
| 10°-20°   | 41.9   | 8.1       |
| 20°-30°   | 80.5   | 15.6      |
| 30°-40°   | 113.8  | 22.1      |
| 40°-50°   | 128.7  | 24.9      |
| 50°-60°   | 101.9  | 19.8      |
| 60°-70°   | 27.5   | 5.3       |
| 70°-80°   | 9.1    | 1.8       |
| 80°-90°   | 2.8    | 0.5       |
| 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°    | 132.2  | 25.6      |
| 0°-40°    | 246.0  | 47.7      |
| 0°-60°    | 476.6  | 92.4      |
| 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°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 75  | 75  | 75  | 75   | 75   |      |
| 5°  | 170 | 136 | 74  | 47   | 44   | 20   |
| 15° | 374 | 281 | 58  | 42   | 44   | 105  |
| 25° | 499 | 353 | 39  | 41   | 44   | 229  |
| 35° | 560 | 385 | 26  | 38   | 44   | 353  |
| 45° | 597 | 351 | 21  | 36   | 45   | 447  |
| 55° | 411 | 174 | 17  | 32   | 43   | 333  |
| 65° | 12  | 7   | 12  | 24   | 33   | 43   |
| 75° | 3   | 4   | 7   | 13   | 18   | 3    |
| 85° | 1   | 2   | 2   | 4    | 5    | 1    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 45°   | 67.5° | 90°  | 112.5° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|
| 0°    | 75.2  | 75.2  | 75.2  | 75.2  | 75.2  | 75.2  | 75.2  | 75.2  | 75.2  | 75.2 | 75.2   |
| 2.5°  | 116.9 | 116.9 | 116.3 | 114.3 | 113.3 | 110.7 | 108.6 | 103.0 | 89.1  | 75.7 | 64.9   |
| 5°    | 170.4 | 173.0 | 169.4 | 168.9 | 165.8 | 161.1 | 158.0 | 136.4 | 103.0 | 74.1 | 55.6   |
| 7.5°  | 233.7 | 234.8 | 233.7 | 228.6 | 223.9 | 216.2 | 209.0 | 175.0 | 116.9 | 71.6 | 48.9   |
| 10°   | 291.9 | 290.4 | 287.3 | 283.7 | 277.0 | 268.7 | 256.4 | 214.2 | 130.2 | 68.0 | 44.8   |
| 12.5° | 339.3 | 338.7 | 335.1 | 331.5 | 323.3 | 312.5 | 300.1 | 249.7 | 141.6 | 63.3 | 42.7   |
| 15°   | 373.8 | 373.8 | 370.2 | 366.0 | 358.3 | 349.6 | 335.7 | 280.6 | 150.8 | 58.2 | 40.7   |
| 17.5° | 396.9 | 395.9 | 393.3 | 390.2 | 384.1 | 375.3 | 364.5 | 305.3 | 157.0 | 53.0 | 40.2   |
| 20°   | 411.9 | 411.3 | 409.3 | 404.6 | 399.5 | 392.8 | 383.0 | 326.4 | 159.6 | 48.4 | 39.6   |
| 22.5° | 459.7 | 455.6 | 447.9 | 438.1 | 425.8 | 409.8 | 396.4 | 342.4 | 158.6 | 43.2 | 38.6   |
| 25°   | 498.9 | 497.3 | 489.1 | 477.2 | 460.8 | 440.2 | 418.0 | 353.2 | 153.4 | 39.1 | 37.6   |
| 27.5° | 524.6 | 522.0 | 514.3 | 501.4 | 483.9 | 463.8 | 443.3 | 361.4 | 146.2 | 35.5 | 36.0   |
| 30°   | 542.6 | 541.1 | 533.3 | 518.9 | 500.9 | 478.8 | 457.7 | 370.7 | 136.4 | 31.9 | 34.5   |
| 32.5° | 553.9 | 552.4 | 544.7 | 531.8 | 514.3 | 491.1 | 466.9 | 379.9 | 124.6 | 28.8 | 32.9   |
| 35°   | 560.1 | 558.6 | 549.8 | 538.5 | 522.0 | 499.4 | 473.6 | 384.6 | 110.2 | 26.3 | 31.4   |
| 37.5° | 567.8 | 564.8 | 552.9 | 539.0 | 522.5 | 501.4 | 475.7 | 384.1 | 95.8  | 24.2 | 30.4   |
| 40°   | 580.7 | 572.5 | 555.5 | 537.0 | 520.0 | 498.9 | 474.1 | 379.9 | 79.8  | 22.7 | 29.3   |
| 42.5° | 593.1 | 581.2 | 556.0 | 533.9 | 514.8 | 494.2 | 468.5 | 370.7 | 62.3  | 21.6 | 28.8   |
| 45°   | 597.2 | 579.7 | 548.8 | 526.7 | 508.6 | 487.5 | 460.8 | 351.1 | 42.2  | 20.6 | 27.8   |
| 47.5° | 569.9 | 557.0 | 531.3 | 514.8 | 497.8 | 477.2 | 449.4 | 330.5 | 24.2  | 19.6 | 26.8   |
| 50°   | 520.0 | 511.7 | 497.3 | 487.0 | 477.7 | 463.3 | 436.0 | 300.1 | 14.4  | 18.5 | 25.7   |
| 52.5° | 473.6 | 471.1 | 460.8 | 452.5 | 447.4 | 440.7 | 416.0 | 253.3 | 11.8  | 18.0 | 24.7   |
| 55°   | 410.8 | 402.6 | 400.0 | 396.9 | 407.7 | 407.2 | 373.8 | 173.5 | 11.3  | 17.0 | 23.7   |
| 57.5° | 257.9 | 261.5 | 274.9 | 299.6 | 329.0 | 346.0 | 344.9 | 92.7  | 10.8  | 16.0 | 22.1   |
| 60°   | 196.1 | 195.6 | 199.7 | 210.0 | 231.7 | 255.9 | 278.5 | 32.4  | 10.3  | 14.9 | 21.1   |
| 62.5° | 58.7  | 60.2  | 72.6  | 106.6 | 127.7 | 157.5 | 143.6 | 7.7   | 9.8   | 13.4 | 19.0   |
| 65°   | 11.8  | 12.4  | 12.4  | 13.9  | 17.0  | 25.7  | 31.4  | 6.7   | 9.3   | 12.4 | 17.5   |
| 67.5° | 5.1   | 5.1   | 5.1   | 5.7   | 5.7   | 6.7   | 5.7   | 6.2   | 8.2   | 10.8 | 15.4   |
| 70°   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 4.6   | 5.1   | 5.1   | 7.2   | 9.3  | 13.4   |
| 72.5° | 3.6   | 3.6   | 3.6   | 4.1   | 4.1   | 4.1   | 4.1   | 4.6   | 6.2   | 7.7  | 11.3   |
| 75°   | 3.1   | 3.1   | 3.1   | 3.1   | 3.6   | 3.6   | 3.6   | 4.1   | 5.1   | 6.7  | 9.3    |
| 77.5° | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 3.1   | 3.1   | 3.1   | 4.1   | 5.1  | 7.7    |
| 80°   | 2.1   | 2.1   | 2.1   | 2.1   | 2.1   | 2.1   | 2.1   | 2.6   | 3.1   | 4.1  | 5.7    |
| 82.5° | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 2.1   | 2.6   | 3.1  | 4.1    |
| 85°   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.5   | 1.5   | 2.1  | 2.6    |
| 87.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 1.0   | 1.0   | 1.0  | 1.5    |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 75.2 | 75.2   | 75.2 |
| 2.5°  | 57.1 | 54.1   | 52.5 |
| 5°    | 46.8 | 44.3   | 43.8 |
| 7.5°  | 43.2 | 42.7   | 42.7 |
| 10°   | 42.2 | 42.7   | 43.2 |
| 12.5° | 42.2 | 43.2   | 43.8 |
| 15°   | 42.2 | 43.2   | 43.8 |
| 17.5° | 42.2 | 43.2   | 43.8 |
| 20°   | 41.7 | 43.2   | 44.3 |
| 22.5° | 41.2 | 43.2   | 43.8 |
| 25°   | 40.7 | 43.2   | 43.8 |
| 27.5° | 40.2 | 42.7   | 43.8 |
| 30°   | 39.6 | 42.7   | 44.3 |
| 32.5° | 38.6 | 42.7   | 44.3 |
| 35°   | 38.1 | 42.7   | 44.3 |
| 37.5° | 37.6 | 42.7   | 44.8 |
| 40°   | 37.1 | 42.7   | 44.8 |
| 42.5° | 36.6 | 42.7   | 44.8 |
| 45°   | 36.0 | 42.2   | 44.8 |
| 47.5° | 35.0 | 42.2   | 44.8 |
| 50°   | 34.5 | 41.7   | 44.3 |
| 52.5° | 33.5 | 41.2   | 44.3 |
| 55°   | 32.4 | 40.2   | 42.7 |
| 57.5° | 30.9 | 38.6   | 40.7 |
| 60°   | 28.8 | 36.6   | 38.6 |
| 62.5° | 26.3 | 34.0   | 35.5 |
| 65°   | 24.2 | 30.9   | 32.9 |
| 67.5° | 21.1 | 27.3   | 29.3 |
| 70°   | 18.5 | 23.7   | 25.7 |
| 72.5° | 16.0 | 20.1   | 22.1 |
| 75°   | 13.4 | 16.5   | 18.0 |
| 77.5° | 10.3 | 13.4   | 14.4 |
| 80°   | 8.2  | 10.3   | 11.3 |
| 82.5° | 5.7  | 7.2    | 7.7  |
| 85°   | 3.6  | 4.6    | 5.1  |
| 87.5° | 1.5  | 2.1    | 2.1  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)