

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: P1307574

Luminaire Tested: P3SQAS02R559030DE010 E3SQCA451MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307574  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS02R559030DE010 E3SQCA451MMS  
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

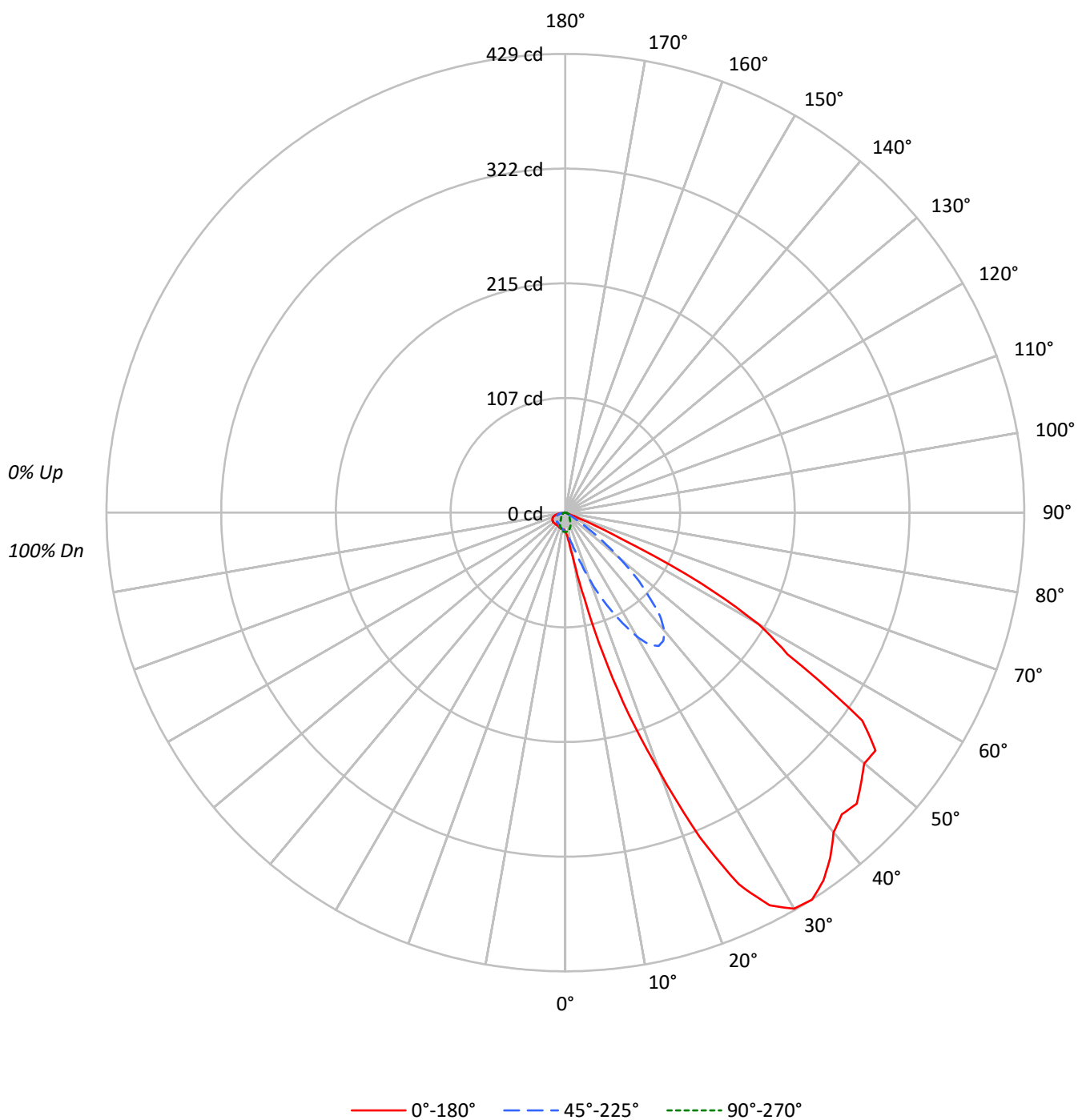
Lumens per Lamp: N/A  
Luminaire Lumens: 276.0 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 99  | 97  | 94  | 95  | 93  | 91  | 92  | 90  | 88  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 67  | 77  | 71  | 65  | 74  | 69  | 64  | 72  | 67  | 63  |
| 4   | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 65  | 59  | 54  | 63  | 58  | 54  |
| 5   | 76  | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 60  | 52  | 47  | 58  | 51  | 46  | 56  | 50  | 46  |
| 6   | 69  | 56  | 47  | 40  | 68  | 55  | 46  | 40  | 53  | 46  | 40  | 51  | 45  | 39  | 50  | 44  | 39  |
| 7   | 64  | 50  | 41  | 35  | 62  | 49  | 41  | 35  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 38  | 34  |
| 8   | 59  | 45  | 36  | 30  | 57  | 44  | 36  | 30  | 43  | 35  | 30  | 41  | 35  | 29  | 40  | 34  | 29  |
| 9   | 54  | 40  | 32  | 26  | 53  | 40  | 32  | 26  | 39  | 31  | 26  | 38  | 31  | 26  | 36  | 30  | 26  |
| 10  | 50  | 37  | 28  | 23  | 49  | 36  | 28  | 23  | 35  | 28  | 23  | 34  | 27  | 23  | 33  | 27  | 23  |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 3066   | 3066  | 3066 | 3066 | 3066 |
| 5°  | 3924   | 3579  | 3077 | 2870 | 2783 |
| 10° | 7975   | 4564  | 2990 | 2728 | 2728 |
| 15° | 24480  | 7007  | 2781 | 2657 | 2746 |
| 20° | 47340  | 12243 | 2511 | 2584 | 2731 |
| 25° | 72856  | 19041 | 2185 | 2508 | 2736 |
| 30° | 85055  | 26628 | 1790 | 2466 | 2804 |
| 35° | 88387  | 31999 | 1493 | 2460 | 2922 |
| 40° | 87725  | 32284 | 1371 | 2585 | 3170 |
| 45° | 93795  | 26718 | 1315 | 2801 | 3434 |
| 50° | 97741  | 17630 | 1313 | 3001 | 3858 |
| 55° | 101788 | 7687  | 1321 | 3303 | 4234 |
| 60° | 71886  | 1757  | 1343 | 3617 | 4788 |
| 65° | 23473  | 611   | 1304 | 3871 | 5379 |
| 70° | 755    | 604   | 1360 | 4179 | 6143 |
| 75° | 665    | 665   | 1131 | 4392 | 6787 |
| 80° | 496    | 694   | 1190 | 4364 | 7240 |
| 85° | 395    | 988   | 1383 | 4347 | 7311 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 103402 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.9    | 0.7       |
| 10°-20°   | 11.7   | 4.2       |
| 20°-30°   | 39.3   | 14.2      |
| 30°-40°   | 64.5   | 23.4      |
| 40°-50°   | 72.0   | 26.1      |
| 50°-60°   | 60.6   | 21.9      |
| 60°-70°   | 20.5   | 7.4       |
| 70°-80°   | 4.0    | 1.5       |
| 80°-90°   | 1.5    | 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°    | 52.9   | 19.2      |
| 0°-40°    | 117.4  | 42.5      |
| 0°-60°    | 249.9  | 90.6      |
| 0°-90°    | 276.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 276.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 18  | 18  | 18  | 18   | 18   |      |
| 5°  | 23  | 21  | 18  | 17   | 16   | 3    |
| 15° | 137 | 39  | 16  | 15   | 15   | 44   |
| 25° | 383 | 100 | 12  | 13   | 14   | 172  |
| 35° | 420 | 152 | 7   | 12   | 14   | 261  |
| 45° | 385 | 110 | 5   | 12   | 14   | 294  |
| 55° | 339 | 26  | 4   | 11   | 14   | 276  |
| 65° | 58  | 2   | 3   | 10   | 13   | 78   |
| 75° | 1   | 1   | 2   | 7    | 10   | 1    |
| 85° | 0   | 0   | 1   | 2    | 4    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 45°   | 67.5° | 90°  | 112.5° | 135° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|------|
| 0°    | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  | 17.8  | 17.8 | 17.8   | 17.8 |
| 2.5°  | 19.5  | 19.5  | 19.5  | 19.5  | 19.5  | 19.5  | 19.3  | 18.5  | 18.0 | 17.3   | 17.1 |
| 5°    | 22.7  | 22.7  | 22.7  | 22.4  | 22.4  | 21.9  | 20.7  | 19.0  | 17.8 | 16.8   | 16.6 |
| 7.5°  | 29.3  | 29.0  | 28.5  | 28.3  | 27.6  | 27.3  | 22.9  | 19.5  | 17.6 | 16.3   | 16.1 |
| 10°   | 45.6  | 45.1  | 44.4  | 41.7  | 39.3  | 37.6  | 26.1  | 19.8  | 17.1 | 15.9   | 15.6 |
| 12.5° | 82.2  | 81.2  | 77.5  | 71.9  | 65.1  | 61.7  | 31.2  | 20.0  | 16.3 | 15.4   | 15.4 |
| 15°   | 137.3 | 136.1 | 129.2 | 121.4 | 109.0 | 102.2 | 39.3  | 19.8  | 15.6 | 14.6   | 14.9 |
| 17.5° | 198.3 | 194.8 | 187.8 | 177.5 | 160.7 | 152.7 | 51.2  | 19.3  | 14.6 | 14.1   | 14.6 |
| 20°   | 258.3 | 257.3 | 245.6 | 231.7 | 210.9 | 200.2 | 66.8  | 18.5  | 13.7 | 13.4   | 14.1 |
| 22.5° | 328.5 | 324.3 | 311.9 | 297.0 | 268.5 | 254.3 | 83.6  | 17.6  | 12.7 | 12.7   | 13.7 |
| 25°   | 383.4 | 378.5 | 368.7 | 351.4 | 324.3 | 309.2 | 100.2 | 16.3  | 11.5 | 11.9   | 13.2 |
| 27.5° | 414.1 | 408.5 | 401.2 | 386.3 | 365.3 | 351.9 | 116.8 | 14.9  | 10.2 | 11.2   | 12.7 |
| 30°   | 427.7 | 426.3 | 420.9 | 409.9 | 390.7 | 378.7 | 133.9 | 13.2  | 9.0  | 10.5   | 12.4 |
| 32.5° | 429.2 | 429.9 | 427.7 | 420.7 | 406.0 | 395.8 | 146.6 | 11.7  | 8.0  | 10.0   | 11.9 |
| 35°   | 420.4 | 423.1 | 424.6 | 421.6 | 412.1 | 403.8 | 152.2 | 10.0  | 7.1  | 9.5    | 11.7 |
| 37.5° | 406.8 | 411.6 | 416.5 | 417.2 | 411.4 | 406.0 | 150.7 | 8.5   | 6.6  | 9.3    | 11.7 |
| 40°   | 390.2 | 394.6 | 404.6 | 410.9 | 409.0 | 405.1 | 143.6 | 7.1   | 6.1  | 8.8    | 11.5 |
| 42.5° | 382.6 | 383.6 | 394.3 | 405.1 | 404.6 | 401.4 | 131.2 | 5.6   | 5.6  | 8.8    | 11.5 |
| 45°   | 385.1 | 380.7 | 387.7 | 400.2 | 399.4 | 395.3 | 109.7 | 4.4   | 5.4  | 8.5    | 11.5 |
| 47.5° | 374.8 | 368.7 | 380.7 | 395.3 | 392.6 | 386.5 | 90.7  | 3.2   | 5.1  | 8.3    | 11.2 |
| 50°   | 364.8 | 363.8 | 373.1 | 380.4 | 376.8 | 373.4 | 65.8  | 2.4   | 4.9  | 8.0    | 11.2 |
| 52.5° | 365.5 | 363.8 | 364.8 | 364.6 | 357.3 | 353.6 | 45.1  | 2.0   | 4.6  | 7.8    | 11.2 |
| 55°   | 339.0 | 333.6 | 328.5 | 329.9 | 330.4 | 328.0 | 25.6  | 1.7   | 4.4  | 7.8    | 11.0 |
| 57.5° | 246.3 | 244.8 | 250.4 | 266.3 | 278.7 | 280.2 | 12.4  | 1.7   | 4.1  | 7.6    | 10.7 |
| 60°   | 208.7 | 207.8 | 208.0 | 212.6 | 219.2 | 215.1 | 5.1   | 1.7   | 3.9  | 7.3    | 10.5 |
| 62.5° | 143.9 | 153.4 | 157.3 | 168.0 | 163.6 | 157.8 | 2.0   | 2.0   | 3.7  | 6.8    | 10.2 |
| 65°   | 57.6  | 57.3  | 62.7  | 67.8  | 66.3  | 61.9  | 1.5   | 1.7   | 3.2  | 6.3    | 9.5  |
| 67.5° | 13.4  | 12.2  | 10.5  | 9.0   | 7.6   | 6.1   | 1.5   | 1.7   | 2.9  | 5.9    | 9.0  |
| 70°   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.2   | 1.2   | 1.7   | 2.7  | 5.4    | 8.3  |
| 72.5° | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.5   | 2.2  | 4.6    | 7.6  |
| 75°   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.2   | 1.7  | 3.9    | 6.6  |
| 77.5° | 0.7   | 0.7   | 0.7   | 1.0   | 0.7   | 1.0   | 1.0   | 1.2   | 1.5  | 3.2    | 5.6  |
| 80°   | 0.5   | 0.5   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 1.0   | 1.2  | 2.7    | 4.4  |
| 82.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.7   | 0.7   | 1.0  | 2.0    | 3.2  |
| 85°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.5   | 0.5   | 0.7   | 0.7  | 1.5    | 2.2  |
| 87.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.5   | 0.5   | 0.7  | 0.7    | 1.0  |
| 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):**

|       | 157.5° | 180° |
|-------|--------|------|
| 0°    | 17.8   | 17.8 |
| 2.5°  | 16.8   | 16.8 |
| 5°    | 16.3   | 16.1 |
| 7.5°  | 15.9   | 15.9 |
| 10°   | 15.6   | 15.6 |
| 12.5° | 15.4   | 15.6 |
| 15°   | 15.4   | 15.4 |
| 17.5° | 14.9   | 15.1 |
| 20°   | 14.6   | 14.9 |
| 22.5° | 14.4   | 14.6 |
| 25°   | 14.1   | 14.4 |
| 27.5° | 13.9   | 14.1 |
| 30°   | 13.7   | 14.1 |
| 32.5° | 13.4   | 13.9 |
| 35°   | 13.4   | 13.9 |
| 37.5° | 13.4   | 14.1 |
| 40°   | 13.4   | 14.1 |
| 42.5° | 13.4   | 14.1 |
| 45°   | 13.4   | 14.1 |
| 47.5° | 13.4   | 14.1 |
| 50°   | 13.4   | 14.4 |
| 52.5° | 13.4   | 14.4 |
| 55°   | 13.4   | 14.1 |
| 57.5° | 13.2   | 14.1 |
| 60°   | 13.2   | 13.9 |
| 62.5° | 12.9   | 13.7 |
| 65°   | 12.4   | 13.2 |
| 67.5° | 11.9   | 12.9 |
| 70°   | 11.2   | 12.2 |
| 72.5° | 10.5   | 11.2 |
| 75°   | 9.5    | 10.2 |
| 77.5° | 8.3    | 8.8  |
| 80°   | 6.6    | 7.3  |
| 82.5° | 5.1    | 5.6  |
| 85°   | 3.4    | 3.7  |
| 87.5° | 1.5    | 1.7  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)