

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: P1308707

Luminaire Tested: P3SQAS02R659035DE010 E3SQCA451MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308707  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS02R659035DE010 E3SQCA451MB  
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 90CRI , E3SQCA451MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

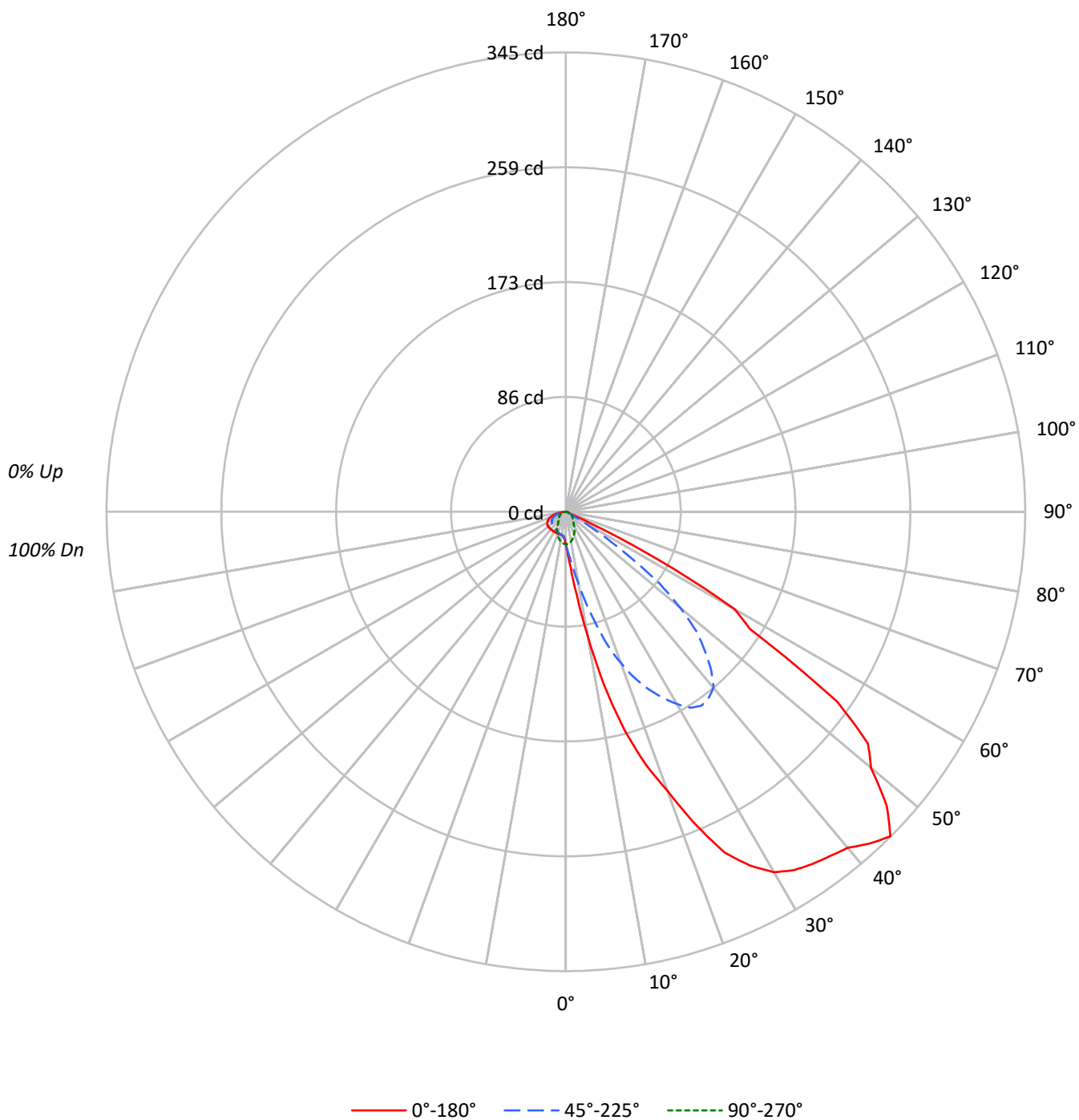
Lumens per Lamp: N/A  
Luminaire Lumens: 250.0 lumens  
Efficiency: N/A  
Efficacy: 69.4 lumens/watt  
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 94  | 91  | 92  | 90  | 89  |
| 2   | 101 | 93  | 87  | 82  | 98  | 92  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 79  | 76  |
| 3   | 92  | 82  | 75  | 69  | 90  | 81  | 74  | 68  | 78  | 72  | 67  | 75  | 70  | 66  | 73  | 68  | 64  |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 57  | 67  | 61  | 56  | 64  | 59  | 55  |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  |
| 6   | 71  | 57  | 49  | 42  | 69  | 57  | 48  | 42  | 55  | 47  | 42  | 53  | 46  | 41  | 51  | 46  | 41  |
| 7   | 65  | 52  | 43  | 37  | 63  | 51  | 42  | 36  | 49  | 42  | 36  | 48  | 41  | 36  | 46  | 40  | 36  |
| 8   | 60  | 46  | 38  | 32  | 58  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 42  | 36  | 31  |
| 9   | 56  | 42  | 34  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  |
| 10  | 52  | 38  | 30  | 25  | 50  | 38  | 30  | 25  | 37  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 24  |

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

|     | 0°    | 45°   | 90°  | 135° | 180° |
|-----|-------|-------|------|------|------|
| 0°  | 4185  | 4185  | 4185 | 4185 | 4185 |
| 5°  | 7330  | 5982  | 4115 | 3337 | 3198 |
| 10° | 16579 | 9636  | 3952 | 3060 | 3113 |
| 15° | 30115 | 15512 | 3673 | 3085 | 3174 |
| 20° | 40834 | 22140 | 3299 | 3079 | 3207 |
| 25° | 53683 | 27953 | 2907 | 3002 | 3287 |
| 30° | 62165 | 33151 | 2486 | 2983 | 3440 |
| 35° | 67888 | 37361 | 2102 | 3049 | 3637 |
| 40° | 74056 | 38782 | 1866 | 3215 | 3889 |
| 45° | 83955 | 35949 | 1778 | 3410 | 4214 |
| 50° | 80192 | 30008 | 1742 | 3617 | 4635 |
| 55° | 74735 | 16845 | 1802 | 3903 | 5104 |
| 60° | 50323 | 3617  | 1826 | 4133 | 5511 |
| 65° | 7784  | 937   | 1752 | 4279 | 6031 |
| 70° | 906   | 906   | 1662 | 4431 | 6445 |
| 75° | 865   | 865   | 1530 | 4325 | 6521 |
| 80° | 793   | 992   | 1488 | 3967 | 6447 |
| 85° | 593   | 988   | 1581 | 3952 | 5928 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 83955 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.9    | 1.2       |
| 10°-20°   | 15.9   | 6.4       |
| 20°-30°   | 37.3   | 14.9      |
| 30°-40°   | 56.4   | 22.6      |
| 40°-50°   | 64.9   | 25.9      |
| 50°-60°   | 51.5   | 20.6      |
| 60°-70°   | 15.4   | 6.2       |
| 70°-80°   | 4.2    | 1.7       |
| 80°-90°   | 1.4    | 0.6       |
| 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°    | 56.2   | 22.5      |
| 0°-40°    | 112.6  | 45.0      |
| 0°-60°    | 228.9  | 91.6      |
| 0°-90°    | 250.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 250.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 24  | 24  | 24  | 24   | 24   |      |
| 5°  | 42  | 35  | 24  | 19   | 18   | 6    |
| 15° | 169 | 87  | 21  | 17   | 18   | 49   |
| 25° | 282 | 147 | 15  | 16   | 17   | 129  |
| 35° | 323 | 178 | 10  | 14   | 17   | 203  |
| 45° | 345 | 148 | 7   | 14   | 17   | 256  |
| 55° | 249 | 56  | 6   | 13   | 17   | 205  |
| 65° | 19  | 2   | 4   | 10   | 15   | 43   |
| 75° | 1   | 1   | 2   | 6    | 10   | 1    |
| 85° | 0   | 0   | 1   | 2    | 3    | 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°    | 24.3  | 24.3  | 24.3  | 24.3  | 24.3  | 24.3  | 24.3  | 24.3  | 24.3 | 24.3   | 24.3 |
| 2.5°  | 30.8  | 31.1  | 30.8  | 30.8  | 30.6  | 30.3  | 28.6  | 26.6  | 24.3 | 22.6   | 21.3 |
| 5°    | 42.4  | 42.6  | 41.9  | 41.9  | 41.4  | 40.6  | 34.6  | 28.8  | 23.8 | 21.1   | 19.3 |
| 7.5°  | 62.7  | 63.7  | 62.4  | 60.9  | 58.2  | 57.7  | 43.1  | 31.1  | 23.3 | 19.6   | 18.0 |
| 10°   | 94.8  | 94.0  | 92.7  | 89.7  | 85.0  | 82.7  | 55.1  | 33.3  | 22.6 | 18.5   | 17.5 |
| 12.5° | 133.6 | 131.6 | 130.1 | 124.6 | 118.1 | 114.3 | 70.2  | 35.3  | 21.6 | 17.5   | 17.3 |
| 15°   | 168.9 | 167.4 | 163.9 | 158.7 | 150.7 | 147.6 | 87.0  | 36.6  | 20.6 | 16.8   | 17.3 |
| 17.5° | 198.8 | 197.3 | 195.3 | 190.0 | 181.7 | 177.2 | 105.8 | 37.3  | 19.3 | 16.3   | 17.0 |
| 20°   | 222.8 | 221.8 | 219.1 | 214.8 | 206.5 | 202.3 | 120.8 | 37.3  | 18.0 | 15.8   | 16.8 |
| 22.5° | 253.9 | 251.7 | 248.2 | 241.9 | 231.6 | 225.1 | 135.1 | 36.6  | 16.8 | 15.3   | 16.3 |
| 25°   | 282.5 | 281.0 | 276.5 | 269.0 | 257.9 | 251.4 | 147.1 | 35.1  | 15.3 | 14.5   | 15.8 |
| 27.5° | 299.5 | 298.5 | 294.3 | 286.5 | 274.2 | 269.2 | 157.2 | 32.8  | 13.8 | 13.8   | 15.5 |
| 30°   | 312.6 | 310.6 | 306.3 | 298.8 | 286.3 | 280.2 | 166.7 | 30.1  | 12.5 | 13.0   | 15.0 |
| 32.5° | 319.1 | 318.3 | 314.6 | 308.1 | 295.8 | 289.0 | 174.5 | 26.6  | 11.0 | 12.5   | 14.8 |
| 35°   | 322.9 | 322.1 | 319.1 | 312.8 | 301.3 | 294.8 | 177.7 | 23.3  | 10.0 | 12.0   | 14.5 |
| 37.5° | 325.9 | 325.1 | 321.4 | 315.1 | 303.6 | 296.8 | 176.2 | 19.8  | 9.0  | 11.5   | 14.3 |
| 40°   | 329.4 | 326.6 | 320.9 | 314.6 | 304.1 | 297.5 | 172.5 | 16.5  | 8.3  | 11.3   | 14.3 |
| 42.5° | 337.9 | 328.4 | 319.3 | 313.6 | 303.6 | 296.0 | 161.7 | 13.0  | 7.5  | 10.8   | 14.0 |
| 45°   | 344.7 | 327.9 | 316.3 | 311.8 | 301.6 | 293.0 | 147.6 | 9.5   | 7.3  | 10.5   | 14.0 |
| 47.5° | 326.9 | 316.6 | 311.3 | 308.8 | 297.8 | 288.5 | 133.1 | 6.5   | 7.0  | 10.3   | 13.8 |
| 50°   | 299.3 | 298.0 | 296.0 | 296.3 | 286.3 | 278.7 | 112.0 | 4.5   | 6.5  | 10.0   | 13.5 |
| 52.5° | 286.0 | 284.5 | 281.0 | 278.5 | 268.5 | 261.9 | 88.7  | 3.5   | 6.3  | 9.8    | 13.3 |
| 55°   | 248.9 | 249.9 | 246.2 | 247.7 | 244.7 | 241.4 | 56.1  | 3.3   | 6.0  | 9.3    | 13.0 |
| 57.5° | 163.9 | 168.9 | 177.7 | 188.3 | 197.8 | 204.3 | 30.3  | 3.3   | 5.5  | 9.0    | 12.5 |
| 60°   | 146.1 | 144.9 | 144.6 | 146.6 | 150.9 | 154.4 | 10.5  | 3.0   | 5.3  | 8.3    | 12.0 |
| 62.5° | 80.0  | 79.5  | 87.0  | 99.8  | 107.3 | 108.0 | 3.0   | 3.0   | 4.8  | 7.8    | 11.3 |
| 65°   | 19.1  | 19.8  | 22.1  | 27.6  | 32.6  | 35.8  | 2.3   | 2.8   | 4.3  | 7.3    | 10.5 |
| 67.5° | 3.0   | 3.3   | 3.3   | 4.0   | 4.5   | 4.5   | 2.0   | 2.5   | 3.8  | 6.5    | 9.8  |
| 70°   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 2.3   | 3.3  | 5.8    | 8.8  |
| 72.5° | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 1.8   | 2.0   | 2.8  | 5.0    | 7.5  |
| 75°   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.8   | 2.3  | 4.0    | 6.5  |
| 77.5° | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.3   | 1.5   | 2.0  | 3.3    | 5.3  |
| 80°   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 1.0   | 1.3   | 1.5  | 2.5    | 4.0  |
| 82.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.8   | 1.0   | 1.3  | 2.0    | 3.0  |
| 85°   | 0.3   | 0.3   | 0.3   | 0.3   | 0.5   | 0.5   | 0.5   | 0.8   | 0.8  | 1.3    | 2.0  |
| 87.5° | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.5   | 0.5   | 0.5  | 0.8    | 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°    | 24.3   | 24.3 |
| 2.5°  | 20.6   | 20.3 |
| 5°    | 18.5   | 18.5 |
| 7.5°  | 17.8   | 17.8 |
| 10°   | 17.5   | 17.8 |
| 12.5° | 17.5   | 17.8 |
| 15°   | 17.5   | 17.8 |
| 17.5° | 17.5   | 17.8 |
| 20°   | 17.3   | 17.5 |
| 22.5° | 17.0   | 17.3 |
| 25°   | 16.8   | 17.3 |
| 27.5° | 16.5   | 17.3 |
| 30°   | 16.5   | 17.3 |
| 32.5° | 16.5   | 17.3 |
| 35°   | 16.3   | 17.3 |
| 37.5° | 16.3   | 17.3 |
| 40°   | 16.3   | 17.3 |
| 42.5° | 16.3   | 17.3 |
| 45°   | 16.3   | 17.3 |
| 47.5° | 16.3   | 17.3 |
| 50°   | 16.3   | 17.3 |
| 52.5° | 16.0   | 17.3 |
| 55°   | 16.0   | 17.0 |
| 57.5° | 15.5   | 16.5 |
| 60°   | 15.0   | 16.0 |
| 62.5° | 14.5   | 15.5 |
| 65°   | 13.8   | 14.8 |
| 67.5° | 13.0   | 13.8 |
| 70°   | 11.8   | 12.8 |
| 72.5° | 10.5   | 11.3 |
| 75°   | 9.0    | 9.8  |
| 77.5° | 7.5    | 8.3  |
| 80°   | 6.0    | 6.5  |
| 82.5° | 4.3    | 4.8  |
| 85°   | 2.8    | 3.0  |
| 87.5° | 1.3    | 1.3  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)