

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: P1309634

Luminaire Tested: P3SQAS24R559035D010 E3SQCA451MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309634  
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: P3SQAS24R559035D010 E3SQCA451MMS  
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 90CRI , E3SQCA451MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

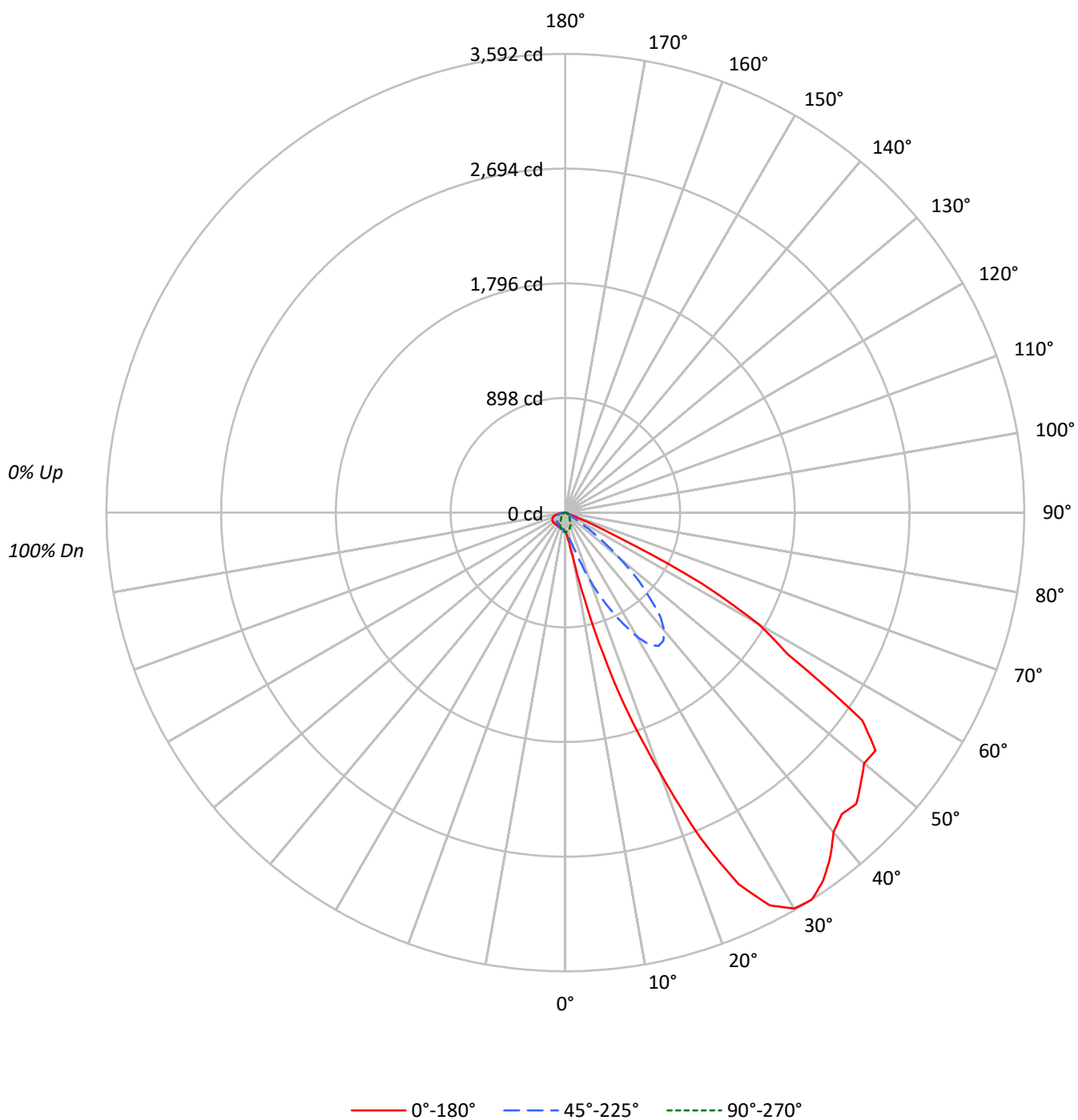
Lumens per Lamp: N/A  
Luminaire Lumens: 2310.0 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 99  | 97  | 94  | 95  | 93  | 91  | 92  | 90  | 88  | 86  |    |    |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 73  |    |    |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 67  | 77  | 71  | 65  | 74  | 69  | 64  | 72  | 67  | 63  | 61  |    |    |
| 4   | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 65  | 59  | 54  | 63  | 58  | 54  | 51  |    |    |
| 5   | 76  | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 60  | 52  | 47  | 58  | 51  | 46  | 56  | 50  | 46  | 43  |    |    |
| 6   | 69  | 56  | 47  | 40  | 68  | 55  | 46  | 40  | 53  | 46  | 40  | 51  | 45  | 39  | 50  | 44  | 39  | 37  |    |    |
| 7   | 64  | 50  | 41  | 35  | 62  | 49  | 41  | 35  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 38  | 34  | 32  |    |    |
| 8   | 59  | 45  | 36  | 30  | 57  | 44  | 36  | 30  | 43  | 35  | 30  | 41  | 35  | 29  | 40  | 34  | 29  | 27  |    |    |
| 9   | 54  | 40  | 32  | 26  | 53  | 40  | 32  | 26  | 39  | 31  | 26  | 38  | 31  | 26  | 36  | 30  | 26  | 24  |    |    |
| 10  | 50  | 37  | 28  | 23  | 49  | 36  | 28  | 23  | 35  | 28  | 23  | 34  | 27  | 23  | 33  | 27  | 23  | 21  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 25661  | 25661  | 25661 | 25661 | 25661 |
| 5°  | 32813  | 29995  | 25759 | 23996 | 23287 |
| 10° | 66751  | 38194  | 24990 | 22839 | 22839 |
| 15° | 204882 | 58589  | 23286 | 22198 | 22929 |
| 20° | 396132 | 102488 | 20948 | 21700 | 22818 |
| 25° | 609701 | 159413 | 18224 | 20941 | 22879 |
| 30° | 711939 | 222829 | 15014 | 20702 | 23546 |
| 35° | 739789 | 267768 | 12447 | 20604 | 24451 |
| 40° | 734174 | 270279 | 11466 | 21560 | 26619 |
| 45° | 784944 | 223709 | 10936 | 23357 | 28837 |
| 50° | 818100 | 147657 | 10932 | 25159 | 32259 |
| 55° | 851840 | 64346  | 11020 | 27564 | 35551 |
| 60° | 601780 | 14777  | 11263 | 30242 | 40059 |
| 65° | 196299 | 4972   | 10799 | 32438 | 44908 |
| 70° | 6143   | 5136   | 11330 | 34946 | 51412 |
| 75° | 5456   | 5456   | 9515  | 36664 | 57026 |
| 80° | 4066   | 6050   | 10116 | 36399 | 60698 |
| 85° | 3952   | 8102   | 12054 | 36359 | 60467 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 865553 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 15.8   | 0.7       |
| 10°-20°   | 98.1   | 4.2       |
| 20°-30°   | 328.8  | 14.2      |
| 30°-40°   | 540.0  | 23.4      |
| 40°-50°   | 602.3  | 26.1      |
| 50°-60°   | 506.9  | 21.9      |
| 60°-70°   | 172.0  | 7.4       |
| 70°-80°   | 33.6   | 1.5       |
| 80°-90°   | 12.6   | 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°    | 442.7  | 19.2      |
| 0°-40°    | 982.6  | 42.5      |
| 0°-60°    | 2091.8 | 90.6      |
| 0°-90°    | 2310.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2310.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0°  | 149  | 149  | 149 | 149  | 149  |      |
| 5°  | 190  | 174  | 149 | 139  | 135  | 24   |
| 15° | 1149 | 329  | 131 | 124  | 129  | 365  |
| 25° | 3208 | 839  | 96  | 110  | 120  | 1442 |
| 35° | 3519 | 1274 | 59  | 98   | 116  | 2185 |
| 45° | 3223 | 918  | 45  | 96   | 118  | 2461 |
| 55° | 2837 | 214  | 37  | 92   | 118  | 2310 |
| 65° | 482  | 12   | 26  | 80   | 110  | 652  |
| 75° | 8    | 8    | 14  | 55   | 86   | 9    |
| 85° | 2    | 4    | 6   | 18   | 31   | 3    |
| 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°    | 149.0  | 149.0  | 149.0  | 149.0  | 149.0  | 149.0  | 149.0  | 149.0 | 149.0 | 149.0  | 149.0 |
| 2.5°  | 163.3  | 163.3  | 163.3  | 163.3  | 163.3  | 163.3  | 161.2  | 155.1 | 151.0 | 144.9  | 142.9 |
| 5°    | 189.8  | 189.8  | 189.8  | 187.8  | 187.8  | 183.7  | 173.5  | 159.2 | 149.0 | 140.8  | 138.8 |
| 7.5°  | 244.9  | 242.9  | 238.8  | 236.8  | 230.6  | 228.6  | 191.9  | 163.3 | 147.0 | 136.7  | 134.7 |
| 10°   | 381.7  | 377.6  | 371.5  | 349.0  | 328.6  | 314.3  | 218.4  | 165.3 | 142.9 | 132.7  | 130.6 |
| 12.5° | 687.8  | 679.7  | 649.0  | 602.1  | 545.0  | 516.4  | 261.3  | 167.4 | 136.7 | 128.6  | 128.6 |
| 15°   | 1149.1 | 1138.9 | 1081.7 | 1016.4 | 912.3  | 855.2  | 328.6  | 165.3 | 130.6 | 122.5  | 124.5 |
| 17.5° | 1659.4 | 1630.8 | 1571.6 | 1485.9 | 1345.0 | 1277.7 | 428.6  | 161.2 | 122.5 | 118.4  | 122.5 |
| 20°   | 2161.4 | 2153.3 | 2055.3 | 1939.0 | 1765.5 | 1675.7 | 559.2  | 155.1 | 114.3 | 112.3  | 118.4 |
| 22.5° | 2749.3 | 2714.6 | 2610.5 | 2486.0 | 2247.2 | 2128.8 | 700.1  | 147.0 | 106.1 | 106.1  | 114.3 |
| 25°   | 3208.5 | 3167.7 | 3086.0 | 2941.1 | 2714.6 | 2588.0 | 838.9  | 136.7 | 95.9  | 100.0  | 110.2 |
| 27.5° | 3465.7 | 3418.7 | 3357.5 | 3233.0 | 3057.5 | 2945.2 | 977.7  | 124.5 | 85.7  | 93.9   | 106.1 |
| 30°   | 3580.0 | 3567.7 | 3522.8 | 3431.0 | 3269.7 | 3169.7 | 1120.5 | 110.2 | 75.5  | 87.8   | 104.1 |
| 32.5° | 3592.2 | 3598.3 | 3580.0 | 3520.8 | 3398.3 | 3312.6 | 1226.7 | 98.0  | 67.4  | 83.7   | 100.0 |
| 35°   | 3518.7 | 3541.2 | 3553.4 | 3528.9 | 3449.3 | 3379.9 | 1273.6 | 83.7  | 59.2  | 79.6   | 98.0  |
| 37.5° | 3404.4 | 3445.2 | 3486.1 | 3492.2 | 3443.2 | 3398.3 | 1261.4 | 71.4  | 55.1  | 77.6   | 98.0  |
| 40°   | 3265.6 | 3302.4 | 3386.1 | 3439.1 | 3422.8 | 3390.1 | 1202.2 | 59.2  | 51.0  | 73.5   | 95.9  |
| 42.5° | 3202.4 | 3210.5 | 3300.3 | 3390.1 | 3386.1 | 3359.5 | 1098.1 | 46.9  | 46.9  | 73.5   | 95.9  |
| 45°   | 3222.8 | 3186.0 | 3245.2 | 3349.3 | 3343.2 | 3308.5 | 918.5  | 36.7  | 44.9  | 71.4   | 95.9  |
| 47.5° | 3137.1 | 3086.0 | 3186.0 | 3308.5 | 3286.0 | 3235.0 | 759.3  | 26.5  | 42.9  | 69.4   | 93.9  |
| 50°   | 3053.4 | 3045.2 | 3122.8 | 3184.0 | 3153.4 | 3124.8 | 551.1  | 20.4  | 40.8  | 67.4   | 93.9  |
| 52.5° | 3059.5 | 3045.2 | 3053.4 | 3051.3 | 2990.1 | 2959.5 | 377.6  | 16.3  | 38.8  | 65.3   | 93.9  |
| 55°   | 2837.0 | 2792.1 | 2749.3 | 2761.5 | 2765.6 | 2745.2 | 214.3  | 14.3  | 36.7  | 65.3   | 91.8  |
| 57.5° | 2061.4 | 2049.2 | 2096.1 | 2228.8 | 2332.9 | 2345.1 | 104.1  | 14.3  | 34.7  | 63.3   | 89.8  |
| 60°   | 1747.1 | 1739.0 | 1741.0 | 1779.8 | 1834.9 | 1800.2 | 42.9   | 14.3  | 32.7  | 61.2   | 87.8  |
| 62.5° | 1204.2 | 1283.8 | 1316.5 | 1406.3 | 1369.5 | 1320.5 | 16.3   | 16.3  | 30.6  | 57.1   | 85.7  |
| 65°   | 481.7  | 479.6  | 524.5  | 567.4  | 555.2  | 518.4  | 12.2   | 14.3  | 26.5  | 53.1   | 79.6  |
| 67.5° | 112.3  | 102.1  | 87.8   | 75.5   | 63.3   | 51.0   | 12.2   | 14.3  | 24.5  | 49.0   | 75.5  |
| 70°   | 12.2   | 12.2   | 12.2   | 12.2   | 12.2   | 10.2   | 10.2   | 14.3  | 22.5  | 44.9   | 69.4  |
| 72.5° | 10.2   | 10.2   | 10.2   | 10.2   | 10.2   | 10.2   | 10.2   | 12.2  | 18.4  | 38.8   | 63.3  |
| 75°   | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 8.2    | 10.2  | 14.3  | 32.7   | 55.1  |
| 77.5° | 6.1    | 6.1    | 6.1    | 8.2    | 6.1    | 8.2    | 8.2    | 10.2  | 12.2  | 26.5   | 46.9  |
| 80°   | 4.1    | 4.1    | 6.1    | 6.1    | 6.1    | 6.1    | 6.1    | 8.2   | 10.2  | 22.5   | 36.7  |
| 82.5° | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 4.1    | 6.1    | 6.1   | 8.2   | 16.3   | 26.5  |
| 85°   | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 4.1    | 4.1    | 6.1   | 6.1   | 12.2   | 18.4  |
| 87.5° | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 4.1    | 4.1   | 6.1   | 6.1    | 8.2   |
| 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°    | 149.0  | 149.0 |
| 2.5°  | 140.8  | 140.8 |
| 5°    | 136.7  | 134.7 |
| 7.5°  | 132.7  | 132.7 |
| 10°   | 130.6  | 130.6 |
| 12.5° | 128.6  | 130.6 |
| 15°   | 128.6  | 128.6 |
| 17.5° | 124.5  | 126.5 |
| 20°   | 122.5  | 124.5 |
| 22.5° | 120.4  | 122.5 |
| 25°   | 118.4  | 120.4 |
| 27.5° | 116.3  | 118.4 |
| 30°   | 114.3  | 118.4 |
| 32.5° | 112.3  | 116.3 |
| 35°   | 112.3  | 116.3 |
| 37.5° | 112.3  | 118.4 |
| 40°   | 112.3  | 118.4 |
| 42.5° | 112.3  | 118.4 |
| 45°   | 112.3  | 118.4 |
| 47.5° | 112.3  | 118.4 |
| 50°   | 112.3  | 120.4 |
| 52.5° | 112.3  | 120.4 |
| 55°   | 112.3  | 118.4 |
| 57.5° | 110.2  | 118.4 |
| 60°   | 110.2  | 116.3 |
| 62.5° | 108.2  | 114.3 |
| 65°   | 104.1  | 110.2 |
| 67.5° | 100.0  | 108.2 |
| 70°   | 93.9   | 102.1 |
| 72.5° | 87.8   | 93.9  |
| 75°   | 79.6   | 85.7  |
| 77.5° | 69.4   | 73.5  |
| 80°   | 55.1   | 61.2  |
| 82.5° | 42.9   | 46.9  |
| 85°   | 28.6   | 30.6  |
| 87.5° | 12.2   | 14.3  |
| 90°   | 0.0    | 0.0   |

(END OF REPORT)