

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: P1308861

Luminaire Tested: P3SQAS05R559035DE010 E3SQCA451MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308861  
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: P3SQAS05R559035DE010 E3SQCA451MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 90CRI , E3SQCA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

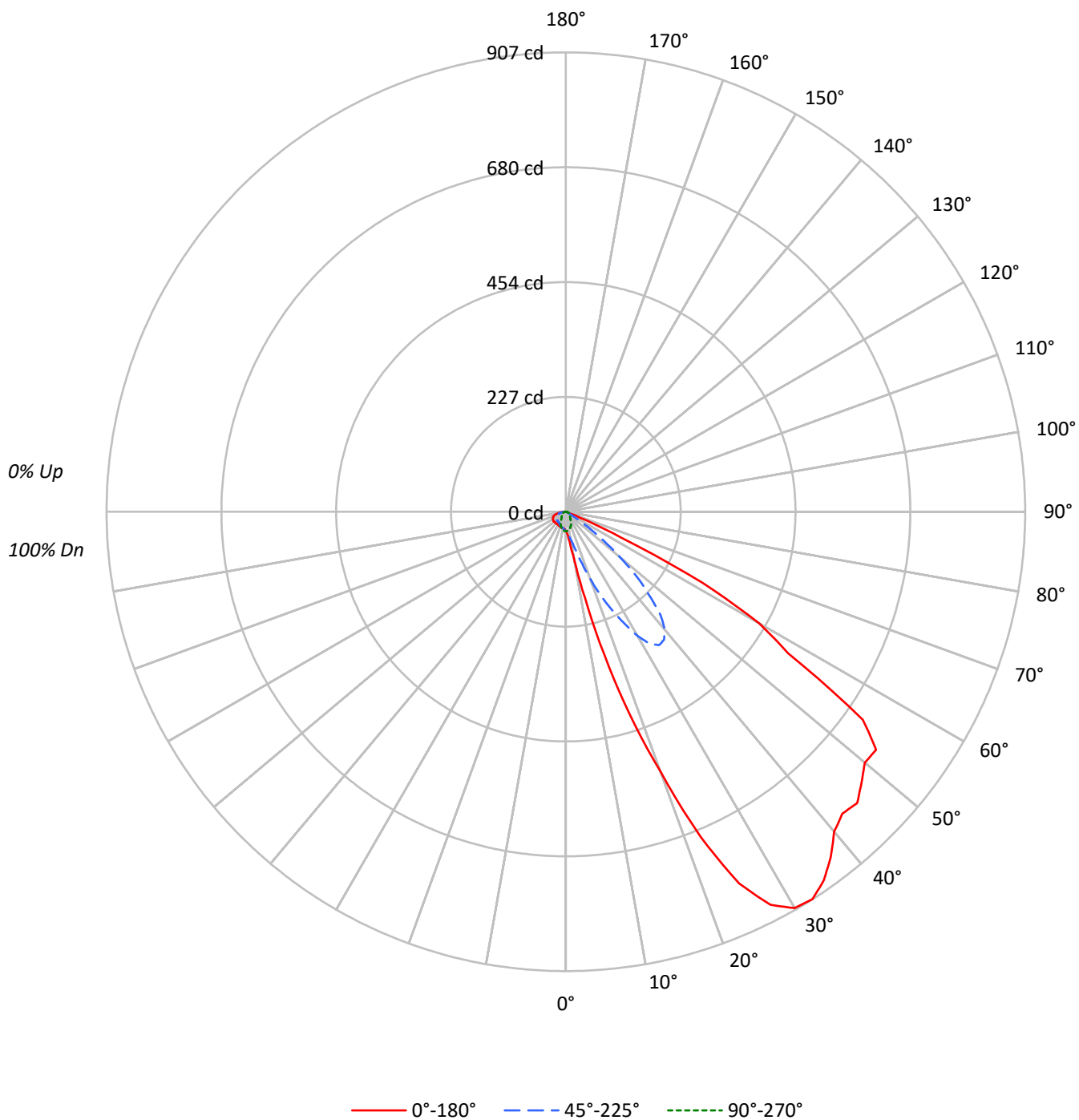
Lumens per Lamp: N/A  
Luminaire Lumens: 583.0 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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  | 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°  | 6476   | 6476  | 6476 | 6476 | 6476  |
| 5°  | 8281   | 7572  | 6500 | 6051 | 5878  |
| 10° | 16841  | 9636  | 6313 | 5771 | 5771  |
| 15° | 51706  | 14781 | 5884 | 5599 | 5795  |
| 20° | 99977  | 25860 | 5278 | 5480 | 5755  |
| 25° | 153884 | 40229 | 4599 | 5283 | 5777  |
| 30° | 179675 | 56239 | 3798 | 5230 | 5946  |
| 35° | 186719 | 67573 | 3133 | 5193 | 6181  |
| 40° | 185297 | 68211 | 2900 | 5441 | 6722  |
| 45° | 198111 | 56457 | 2752 | 5894 | 7282  |
| 50° | 206468 | 37269 | 2760 | 6350 | 8145  |
| 55° | 214987 | 16244 | 2792 | 6966 | 8978  |
| 60° | 151866 | 3720  | 2824 | 7612 | 10127 |
| 65° | 49554  | 1263  | 2730 | 8191 | 11329 |
| 70° | 1561   | 1309  | 2870 | 8812 | 12991 |
| 75° | 1397   | 1397  | 2396 | 9249 | 14373 |
| 80° | 992    | 1488  | 2579 | 9224 | 15373 |
| 85° | 988    | 1976  | 2964 | 9090 | 15215 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 218460 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 4.0    | 0.7       |
| 10°-20°   | 24.7   | 4.2       |
| 20°-30°   | 83.0   | 14.2      |
| 30°-40°   | 136.3  | 23.4      |
| 40°-50°   | 152.0  | 26.1      |
| 50°-60°   | 127.9  | 21.9      |
| 60°-70°   | 43.4   | 7.4       |
| 70°-80°   | 8.5    | 1.5       |
| 80°-90°   | 3.2    | 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°    | 111.7  | 19.2      |
| 0°-40°    | 248.0  | 42.5      |
| 0°-60°    | 527.9  | 90.6      |
| 0°-90°    | 583.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 583.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 38  | 38  | 38  | 38   | 38   |      |
| 5°  | 48  | 44  | 38  | 35   | 34   | 6    |
| 15° | 290 | 83  | 33  | 31   | 32   | 92   |
| 25° | 810 | 212 | 24  | 28   | 30   | 364  |
| 35° | 888 | 321 | 15  | 25   | 29   | 551  |
| 45° | 813 | 232 | 11  | 24   | 30   | 621  |
| 55° | 716 | 54  | 9   | 23   | 30   | 583  |
| 65° | 122 | 3   | 7   | 20   | 28   | 165  |
| 75° | 2   | 2   | 4   | 14   | 22   | 2    |
| 85° | 0   | 1   | 2   | 5    | 8    | 1    |
| 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°    | 37.6  | 37.6  | 37.6  | 37.6  | 37.6  | 37.6  | 37.6  | 37.6  | 37.6 | 37.6   | 37.6 |
| 2.5°  | 41.2  | 41.2  | 41.2  | 41.2  | 41.2  | 41.2  | 40.7  | 39.1  | 38.1 | 36.6   | 36.1 |
| 5°    | 47.9  | 47.9  | 47.9  | 47.4  | 47.4  | 46.4  | 43.8  | 40.2  | 37.6 | 35.5   | 35.0 |
| 7.5°  | 61.8  | 61.3  | 60.3  | 59.8  | 58.2  | 57.7  | 48.4  | 41.2  | 37.1 | 34.5   | 34.0 |
| 10°   | 96.3  | 95.3  | 93.8  | 88.1  | 82.9  | 79.3  | 55.1  | 41.7  | 36.1 | 33.5   | 33.0 |
| 12.5° | 173.6 | 171.5 | 163.8 | 152.0 | 137.5 | 130.3 | 65.9  | 42.2  | 34.5 | 32.5   | 32.5 |
| 15°   | 290.0 | 287.4 | 273.0 | 256.5 | 230.3 | 215.8 | 82.9  | 41.7  | 33.0 | 30.9   | 31.4 |
| 17.5° | 418.8 | 411.6 | 396.6 | 375.0 | 339.5 | 322.5 | 108.2 | 40.7  | 30.9 | 29.9   | 30.9 |
| 20°   | 545.5 | 543.4 | 518.7 | 489.4 | 445.6 | 422.9 | 141.1 | 39.1  | 28.8 | 28.3   | 29.9 |
| 22.5° | 693.9 | 685.1 | 658.8 | 627.4 | 567.1 | 537.3 | 176.7 | 37.1  | 26.8 | 26.8   | 28.8 |
| 25°   | 809.8 | 799.5 | 778.9 | 742.3 | 685.1 | 653.2 | 211.7 | 34.5  | 24.2 | 25.2   | 27.8 |
| 27.5° | 874.7 | 862.8 | 847.4 | 815.9 | 771.6 | 743.3 | 246.7 | 31.4  | 21.6 | 23.7   | 26.8 |
| 30°   | 903.5 | 900.4 | 889.1 | 865.9 | 825.2 | 800.0 | 282.8 | 27.8  | 19.1 | 22.1   | 26.3 |
| 32.5° | 906.6 | 908.1 | 903.5 | 888.6 | 857.7 | 836.0 | 309.6 | 24.7  | 17.0 | 21.1   | 25.2 |
| 35°   | 888.1 | 893.7 | 896.8 | 890.6 | 870.5 | 853.0 | 321.4 | 21.1  | 14.9 | 20.1   | 24.7 |
| 37.5° | 859.2 | 869.5 | 879.8 | 881.4 | 869.0 | 857.7 | 318.3 | 18.0  | 13.9 | 19.6   | 24.7 |
| 40°   | 824.2 | 833.5 | 854.6 | 868.0 | 863.8 | 855.6 | 303.4 | 14.9  | 12.9 | 18.5   | 24.2 |
| 42.5° | 808.2 | 810.3 | 832.9 | 855.6 | 854.6 | 847.9 | 277.1 | 11.8  | 11.8 | 18.5   | 24.2 |
| 45°   | 813.4 | 804.1 | 819.0 | 845.3 | 843.8 | 835.0 | 231.8 | 9.3   | 11.3 | 18.0   | 24.2 |
| 47.5° | 791.7 | 778.9 | 804.1 | 835.0 | 829.3 | 816.5 | 191.6 | 6.7   | 10.8 | 17.5   | 23.7 |
| 50°   | 770.6 | 768.6 | 788.1 | 803.6 | 795.9 | 788.6 | 139.1 | 5.2   | 10.3 | 17.0   | 23.7 |
| 52.5° | 772.2 | 768.6 | 770.6 | 770.1 | 754.6 | 746.9 | 95.3  | 4.1   | 9.8  | 16.5   | 23.7 |
| 55°   | 716.0 | 704.7 | 693.9 | 697.0 | 698.0 | 692.8 | 54.1  | 3.6   | 9.3  | 16.5   | 23.2 |
| 57.5° | 520.3 | 517.2 | 529.0 | 562.5 | 588.8 | 591.9 | 26.3  | 3.6   | 8.8  | 16.0   | 22.7 |
| 60°   | 440.9 | 438.9 | 439.4 | 449.2 | 463.1 | 454.3 | 10.8  | 3.6   | 8.2  | 15.5   | 22.1 |
| 62.5° | 303.9 | 324.0 | 332.2 | 354.9 | 345.6 | 333.3 | 4.1   | 4.1   | 7.7  | 14.4   | 21.6 |
| 65°   | 121.6 | 121.1 | 132.4 | 143.2 | 140.1 | 130.8 | 3.1   | 3.6   | 6.7  | 13.4   | 20.1 |
| 67.5° | 28.3  | 25.8  | 22.1  | 19.1  | 16.0  | 12.9  | 3.1   | 3.6   | 6.2  | 12.4   | 19.1 |
| 70°   | 3.1   | 3.1   | 3.1   | 3.1   | 3.1   | 2.6   | 2.6   | 3.6   | 5.7  | 11.3   | 17.5 |
| 72.5° | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 3.1   | 4.6  | 9.8    | 16.0 |
| 75°   | 2.1   | 2.1   | 2.1   | 2.1   | 2.1   | 2.1   | 2.1   | 2.6   | 3.6  | 8.2    | 13.9 |
| 77.5° | 1.5   | 1.5   | 1.5   | 2.1   | 1.5   | 2.1   | 2.1   | 2.6   | 3.1  | 6.7    | 11.8 |
| 80°   | 1.0   | 1.0   | 1.5   | 1.5   | 1.5   | 1.5   | 1.5   | 2.1   | 2.6  | 5.7    | 9.3  |
| 82.5° | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 1.5   | 1.5   | 2.1  | 4.1    | 6.7  |
| 85°   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 1.0   | 1.0   | 1.5   | 1.5  | 3.1    | 4.6  |
| 87.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 1.0   | 1.0   | 1.5  | 1.5    | 2.1  |
| 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°    | 37.6   | 37.6 |
| 2.5°  | 35.5   | 35.5 |
| 5°    | 34.5   | 34.0 |
| 7.5°  | 33.5   | 33.5 |
| 10°   | 33.0   | 33.0 |
| 12.5° | 32.5   | 33.0 |
| 15°   | 32.5   | 32.5 |
| 17.5° | 31.4   | 31.9 |
| 20°   | 30.9   | 31.4 |
| 22.5° | 30.4   | 30.9 |
| 25°   | 29.9   | 30.4 |
| 27.5° | 29.4   | 29.9 |
| 30°   | 28.8   | 29.9 |
| 32.5° | 28.3   | 29.4 |
| 35°   | 28.3   | 29.4 |
| 37.5° | 28.3   | 29.9 |
| 40°   | 28.3   | 29.9 |
| 42.5° | 28.3   | 29.9 |
| 45°   | 28.3   | 29.9 |
| 47.5° | 28.3   | 29.9 |
| 50°   | 28.3   | 30.4 |
| 52.5° | 28.3   | 30.4 |
| 55°   | 28.3   | 29.9 |
| 57.5° | 27.8   | 29.9 |
| 60°   | 27.8   | 29.4 |
| 62.5° | 27.3   | 28.8 |
| 65°   | 26.3   | 27.8 |
| 67.5° | 25.2   | 27.3 |
| 70°   | 23.7   | 25.8 |
| 72.5° | 22.1   | 23.7 |
| 75°   | 20.1   | 21.6 |
| 77.5° | 17.5   | 18.5 |
| 80°   | 13.9   | 15.5 |
| 82.5° | 10.8   | 11.8 |
| 85°   | 7.2    | 7.7  |
| 87.5° | 3.1    | 3.6  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)