

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: P1316360

Luminaire Tested: P3SQAS17R209827DE010 E3SQPHL1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316360  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS17R209827DE010 E3SQPHL1MB  
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , E3SQPHL1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

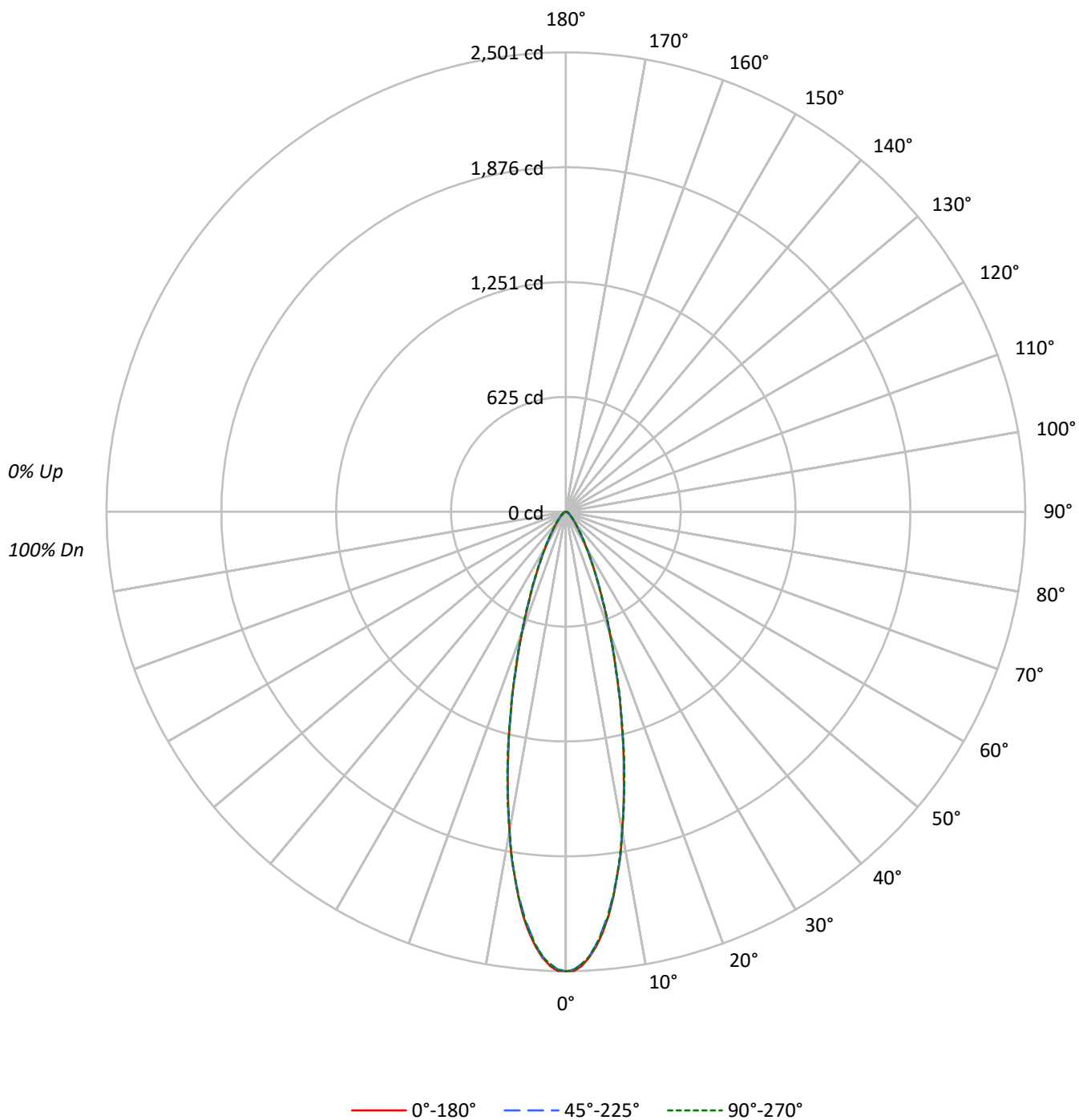
Lumens per Lamp: N/A  
Luminaire Lumens: 879.0 lumens  
Efficiency: N/A  
Efficacy: 43.1 lumens/watt  
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.4  
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   | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 |  | 101 | 100 | 99  |  | 98  | 97  | 96  | 94  |
| 2   | 109 | 104 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 97  | 94  |  | 96  | 94  | 92  |  | 94  | 92  | 90  | 89  |
| 3   | 104 | 98  | 94  | 90  | 102 | 97  | 93  | 89  | 94  | 91  | 88  |  | 92  | 89  | 87  |  | 90  | 87  | 85  | 84  |
| 4   | 100 | 93  | 88  | 84  | 98  | 92  | 87  | 84  | 90  | 86  | 83  |  | 88  | 84  | 82  |  | 86  | 83  | 81  | 79  |
| 5   | 96  | 88  | 83  | 79  | 94  | 87  | 82  | 79  | 86  | 81  | 78  |  | 84  | 80  | 77  |  | 82  | 79  | 77  | 75  |
| 6   | 92  | 84  | 79  | 75  | 90  | 83  | 78  | 75  | 82  | 77  | 74  |  | 80  | 77  | 74  |  | 79  | 76  | 73  | 72  |
| 7   | 88  | 80  | 75  | 71  | 87  | 80  | 75  | 71  | 78  | 74  | 71  |  | 77  | 73  | 70  |  | 76  | 73  | 70  | 69  |
| 8   | 85  | 77  | 72  | 68  | 84  | 76  | 71  | 68  | 75  | 71  | 68  |  | 74  | 70  | 67  |  | 73  | 70  | 67  | 66  |
| 9   | 82  | 74  | 69  | 65  | 81  | 73  | 68  | 65  | 72  | 68  | 65  |  | 71  | 67  | 65  |  | 71  | 67  | 64  | 63  |
| 10  | 79  | 71  | 66  | 62  | 78  | 70  | 66  | 62  | 70  | 65  | 62  |  | 69  | 65  | 62  |  | 68  | 65  | 62  | 61  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 430780 | 430780 | 430780 |
| 5°  | 397400 | 395136 | 396467 |
| 10° | 308400 | 308785 | 308785 |
| 15° | 208448 | 209429 | 209429 |
| 20° | 126588 | 128201 | 128806 |
| 25° | 74262  | 75308  | 75099  |
| 30° | 43313  | 44188  | 44407  |
| 35° | 26470  | 27164  | 27164  |
| 40° | 17221  | 17469  | 17716  |
| 45° | 12007  | 12275  | 12519  |
| 50° | 8788   | 9083   | 9083   |
| 55° | 6906   | 7236   | 7236   |
| 60° | 6028   | 6028   | 6407   |
| 65° | 5338   | 5338   | 5787   |
| 70° | 4985   | 4985   | 4985   |
| 75° | 4392   | 4392   | 4392   |
| 80° | 3273   | 3273   | 4364   |
| 85° | 2174   | 2174   | 4347   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 12519 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 201.7  | 22.9      |
| 10°-20°   | 323.0  | 36.7      |
| 20°-30°   | 187.1  | 21.3      |
| 30°-40°   | 83.9   | 9.5       |
| 40°-50°   | 39.8   | 4.5       |
| 50°-60°   | 21.8   | 2.5       |
| 60°-70°   | 13.2   | 1.5       |
| 70°-80°   | 7.1    | 0.8       |
| 80°-90°   | 1.6    | 0.2       |
| 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       |
| <hr/>     |        |           |
| 0°-30°    | 711.7  | 81.0      |
| 0°-40°    | 795.6  | 90.5      |
| 0°-60°    | 857.2  | 97.5      |
| 0°-90°    | 879.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 879.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2501 | 2501  | 2501 | 2501  | 2501 |      |
| 5°  | 2299 | 2291  | 2286 | 2290  | 2293 | 202  |
| 15° | 1169 | 1169  | 1175 | 1169  | 1175 | 322  |
| 25° | 391  | 391   | 396  | 393   | 395  | 185  |
| 35° | 126  | 127   | 129  | 130   | 129  | 82   |
| 45° | 49   | 49    | 50   | 50    | 51   | 39   |
| 55° | 23   | 23    | 24   | 24    | 24   | 21   |
| 65° | 13   | 13    | 13   | 13    | 14   | 13   |
| 75° | 7    | 7     | 7    | 7     | 7    | 7    |
| 85° | 1    | 1     | 1    | 1     | 2    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2501.3 | 2501.3 | 2501.3 | 2501.3 | 2501.3 |
| 1°    | 2500.2 | 2493.6 | 2491.4 | 2489.2 | 2495.8 |
| 2°    | 2475.0 | 2467.3 | 2462.9 | 2465.1 | 2466.2 |
| 3°    | 2430.1 | 2425.7 | 2425.7 | 2422.4 | 2424.6 |
| 4°    | 2372.1 | 2363.3 | 2363.3 | 2364.4 | 2364.4 |
| 5°    | 2298.7 | 2291.1 | 2285.6 | 2290.0 | 2293.3 |
| 6°    | 2216.6 | 2206.8 | 2202.4 | 2203.5 | 2211.2 |
| 7°    | 2115.9 | 2102.8 | 2105.0 | 2110.5 | 2110.5 |
| 8°    | 2002.1 | 2001.0 | 2003.2 | 2001.0 | 2003.2 |
| 9°    | 1897.0 | 1881.7 | 1894.8 | 1883.9 | 1889.4 |
| 10°   | 1763.5 | 1762.4 | 1765.7 | 1768.9 | 1765.7 |
| 12.5° | 1459.2 | 1464.6 | 1466.8 | 1462.4 | 1472.3 |
| 15°   | 1169.1 | 1169.1 | 1174.6 | 1169.1 | 1174.6 |
| 17.5° | 909.6  | 908.6  | 912.9  | 908.6  | 915.1  |
| 20°   | 690.7  | 698.4  | 699.5  | 699.5  | 702.8  |
| 22.5° | 521.0  | 521.0  | 525.4  | 526.5  | 524.3  |
| 25°   | 390.8  | 390.8  | 396.3  | 393.0  | 395.2  |
| 27.5° | 289.0  | 291.2  | 295.6  | 297.7  | 297.7  |
| 30°   | 217.8  | 218.9  | 222.2  | 223.3  | 223.3  |
| 32.5° | 164.2  | 166.4  | 168.6  | 169.7  | 170.8  |
| 35°   | 125.9  | 127.0  | 129.2  | 130.3  | 129.2  |
| 37.5° | 96.3   | 97.4   | 99.6   | 100.7  | 100.7  |
| 40°   | 76.6   | 76.6   | 77.7   | 78.8   | 78.8   |
| 42.5° | 60.2   | 61.3   | 61.3   | 62.4   | 62.4   |
| 45°   | 49.3   | 49.3   | 50.4   | 50.4   | 51.4   |
| 47.5° | 39.4   | 39.4   | 40.5   | 41.6   | 41.6   |
| 50°   | 32.8   | 32.8   | 33.9   | 33.9   | 33.9   |
| 52.5° | 27.4   | 27.4   | 28.5   | 28.5   | 28.5   |
| 55°   | 23.0   | 23.0   | 24.1   | 24.1   | 24.1   |
| 57.5° | 19.7   | 19.7   | 20.8   | 20.8   | 20.8   |
| 60°   | 17.5   | 17.5   | 17.5   | 17.5   | 18.6   |
| 62.5° | 15.3   | 15.3   | 15.3   | 15.3   | 15.3   |
| 65°   | 13.1   | 13.1   | 13.1   | 13.1   | 14.2   |
| 67.5° | 10.9   | 10.9   | 10.9   | 10.9   | 12.0   |
| 70°   | 9.9    | 9.9    | 9.9    | 9.9    | 9.9    |
| 72.5° | 7.7    | 7.7    | 7.7    | 8.8    | 8.8    |
| 75°   | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    |
| 77.5° | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    |
| 80°   | 3.3    | 3.3    | 3.3    | 4.4    | 4.4    |
| 82.5° | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 85°   | 1.1    | 1.1    | 1.1    | 1.1    | 2.2    |
| 87.5° | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)