

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: P#

Luminaire Tested: P3ART09R70W2N902750DE010 E3CLDWW1MMS\_2700K

Issue Date: 5/8/2026

**Test Information**

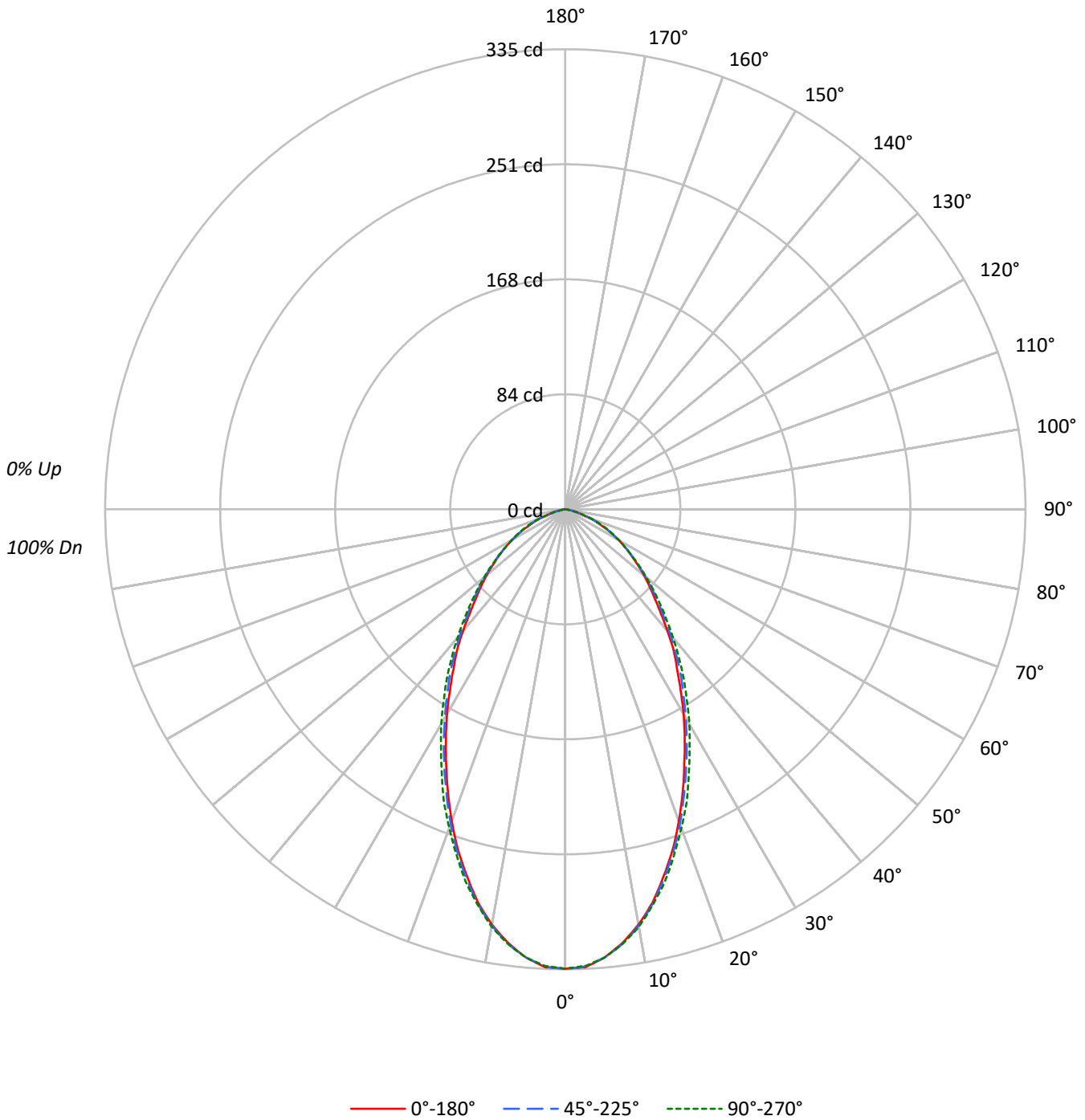
Test Method: LM-79-2019  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART09R70W2N902750DE010 E3CLDWW1MMS\_2700K  
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 2700K CCT AND, 90CRI ,  
E3CLDWW1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 466.0 lumens  
Efficiency: N/A  
Efficacy: 51.8 lumens/watt  
Spacing Criteria (0/90/45): 0.87 / 0.89 / 0.97  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 9  
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   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 97  | 97  | 95  | 94  | 94  | 92  | 91  | 89  |
| 2   | 103 | 97  | 91  | 87  | 101 | 95  | 90  | 86  | 92  | 87  | 84  | 88  | 85  | 82  | 85  | 83  | 80  | 78  |
| 3   | 96  | 87  | 81  | 75  | 94  | 86  | 80  | 75  | 83  | 78  | 73  | 80  | 76  | 72  | 78  | 74  | 71  | 69  |
| 4   | 89  | 79  | 72  | 66  | 87  | 78  | 71  | 66  | 76  | 70  | 65  | 73  | 68  | 64  | 71  | 67  | 63  | 61  |
| 5   | 83  | 72  | 64  | 59  | 81  | 71  | 64  | 59  | 69  | 63  | 58  | 67  | 62  | 57  | 66  | 61  | 57  | 55  |
| 6   | 78  | 66  | 58  | 53  | 76  | 65  | 58  | 53  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 51  | 50  |
| 7   | 73  | 61  | 53  | 48  | 71  | 60  | 53  | 48  | 59  | 52  | 47  | 57  | 52  | 47  | 56  | 51  | 47  | 45  |
| 8   | 68  | 56  | 49  | 44  | 67  | 56  | 49  | 44  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 41  |
| 9   | 64  | 52  | 45  | 40  | 63  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 40  | 49  | 43  | 40  | 38  |
| 10  | 61  | 49  | 42  | 37  | 60  | 48  | 42  | 37  | 47  | 41  | 37  | 47  | 41  | 37  | 46  | 40  | 37  | 35  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 73371 | 73371 | 73371 |
| 5°  | 72133 | 72133 | 72133 |
| 10° | 68380 | 68558 | 68736 |
| 15° | 62793 | 63156 | 63678 |
| 20° | 56378 | 56915 | 57615 |
| 25° | 49600 | 50350 | 51438 |
| 30° | 43602 | 44387 | 45729 |
| 35° | 37959 | 39163 | 40181 |
| 40° | 33148 | 34035 | 34894 |
| 45° | 28592 | 29553 | 30267 |
| 50° | 25483 | 25995 | 26268 |
| 55° | 22441 | 22709 | 22709 |
| 60° | 19735 | 19384 | 19735 |
| 65° | 16189 | 16604 | 17019 |
| 70° | 12694 | 12694 | 13207 |
| 75° | 8388  | 7710  | 7710  |
| 80° | 4799  | 3788  | 2904  |
| 85° | 2013  | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 75°  
 Vertical Angle: 45°  
 Luminance: 30267 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 30.7   | 6.6       |
| 10°-20°   | 77.7   | 16.7      |
| 20°-30°   | 95.8   | 20.6      |
| 30°-40°   | 91.3   | 19.6      |
| 40°-50°   | 73.9   | 15.9      |
| 50°-60°   | 53.2   | 11.4      |
| 60°-70°   | 31.9   | 6.8       |
| 70°-80°   | 10.7   | 2.3       |
| 80°-90°   | 0.9    | 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       |
| 0°-30°    | 204.2  | 43.8      |
| 0°-40°    | 295.5  | 63.4      |
| 0°-60°    | 422.6  | 90.7      |
| 0°-90°    | 466.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 466.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 335 | 335   | 335 | 335   | 335 |      |
| 5°  | 328 | 328   | 328 | 328   | 328 | 31   |
| 15° | 277 | 277   | 278 | 279   | 280 | 77   |
| 25° | 205 | 206   | 208 | 211   | 213 | 94   |
| 35° | 142 | 143   | 146 | 149   | 150 | 89   |
| 45° | 92  | 94    | 95  | 97    | 98  | 72   |
| 55° | 59  | 59    | 59  | 59    | 59  | 53   |
| 65° | 31  | 32    | 32  | 33    | 33  | 31   |
| 75° | 10  | 10    | 9   | 9     | 9   | 11   |
| 85° | 1   | 1     | 0   | 0     | 0   | 1    |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 334.6 | 334.6 | 334.6 | 334.6 | 334.6 | 334.6 | 334.6 | 334.6 | 334.6 | 334.6 | 334.6 |
| 2°    | 333.8 | 333.8 | 333.8 | 333.8 | 333.8 | 333.8 | 333.8 | 333.8 | 333.8 | 333.8 | 333.0 |
| 2.5°  | 333.8 | 333.0 | 333.0 | 333.0 | 333.0 | 333.0 | 333.0 | 333.0 | 333.0 | 333.8 | 333.0 |
| 5°    | 327.7 | 327.7 | 327.7 | 327.7 | 327.7 | 327.7 | 327.7 | 327.7 | 328.5 | 327.7 | 327.7 |
| 7.5°  | 318.6 | 318.6 | 318.6 | 318.6 | 319.3 | 319.3 | 319.3 | 319.3 | 320.1 | 320.1 | 319.3 |
| 10°   | 307.1 | 307.1 | 307.1 | 307.1 | 307.9 | 307.9 | 308.7 | 307.9 | 307.9 | 308.7 | 308.7 |
| 12.5° | 293.4 | 292.7 | 292.7 | 292.7 | 293.4 | 294.2 | 294.2 | 294.2 | 294.9 | 294.9 | 294.9 |
| 15°   | 276.6 | 276.6 | 276.6 | 277.4 | 277.4 | 278.2 | 278.9 | 278.9 | 279.7 | 279.7 | 280.5 |
| 17.5° | 259.9 | 259.9 | 259.1 | 259.9 | 260.6 | 261.4 | 262.2 | 262.9 | 263.7 | 263.7 | 263.7 |
| 20°   | 241.6 | 240.8 | 241.6 | 242.4 | 243.1 | 243.9 | 244.6 | 246.2 | 246.9 | 246.9 | 246.9 |
| 22.5° | 223.3 | 222.5 | 223.3 | 224.1 | 224.8 | 225.6 | 227.9 | 228.6 | 229.4 | 229.4 | 230.9 |
| 25°   | 205.0 | 205.0 | 205.8 | 206.5 | 207.3 | 208.1 | 209.6 | 211.1 | 211.9 | 212.6 | 212.6 |
| 27.5° | 188.2 | 188.2 | 188.2 | 188.2 | 189.8 | 191.3 | 192.8 | 194.3 | 195.1 | 195.9 | 195.9 |
| 30°   | 172.2 | 171.5 | 171.5 | 172.2 | 173.8 | 175.3 | 176.8 | 178.3 | 179.1 | 179.9 | 180.6 |
| 32.5° | 156.2 | 156.2 | 156.2 | 157.0 | 157.8 | 160.0 | 161.6 | 162.3 | 163.9 | 164.6 | 164.6 |
| 35°   | 141.8 | 141.8 | 141.8 | 143.3 | 144.8 | 146.3 | 147.1 | 148.6 | 150.1 | 150.1 | 150.1 |
| 37.5° | 129.6 | 130.3 | 131.8 | 131.1 | 131.1 | 131.8 | 132.6 | 134.1 | 135.7 | 135.7 | 135.7 |
| 40°   | 115.8 | 116.6 | 117.4 | 116.6 | 117.4 | 118.9 | 119.7 | 120.4 | 121.2 | 121.9 | 121.9 |
| 42.5° | 102.9 | 102.9 | 102.9 | 103.6 | 105.2 | 105.9 | 107.5 | 108.2 | 109.0 | 109.0 | 109.0 |
| 45°   | 92.2  | 92.2  | 93.0  | 93.7  | 94.5  | 95.3  | 96.0  | 96.8  | 97.6  | 97.6  | 97.6  |
| 47.5° | 83.1  | 83.1  | 83.8  | 83.8  | 84.6  | 85.4  | 86.1  | 86.1  | 86.9  | 87.6  | 86.9  |
| 50°   | 74.7  | 74.7  | 74.7  | 75.4  | 75.4  | 76.2  | 76.2  | 77.0  | 77.0  | 77.0  | 77.0  |
| 52.5° | 66.3  | 66.3  | 66.3  | 66.3  | 67.1  | 67.1  | 67.1  | 67.8  | 67.8  | 67.8  | 67.8  |
| 55°   | 58.7  | 58.7  | 58.7  | 58.7  | 58.7  | 59.4  | 59.4  | 59.4  | 59.4  | 59.4  | 59.4  |
| 57.5° | 51.8  | 51.8  | 51.8  | 51.8  | 51.8  | 51.8  | 51.8  | 51.8  | 51.8  | 51.8  | 51.8  |
| 60°   | 45.0  | 45.0  | 45.0  | 45.0  | 45.0  | 44.2  | 45.0  | 45.0  | 45.0  | 45.0  | 45.0  |
| 62.5° | 38.1  | 38.1  | 38.1  | 38.1  | 38.1  | 38.1  | 38.1  | 38.9  | 38.9  | 38.9  | 38.9  |
| 65°   | 31.2  | 32.0  | 32.0  | 32.0  | 32.0  | 32.0  | 32.0  | 32.8  | 32.8  | 32.8  | 32.8  |
| 67.5° | 25.1  | 25.9  | 25.9  | 25.9  | 25.9  | 25.9  | 25.9  | 25.9  | 26.7  | 26.7  | 26.7  |
| 70°   | 19.8  | 19.8  | 19.8  | 19.8  | 19.8  | 19.8  | 19.8  | 19.8  | 19.8  | 19.8  | 20.6  |
| 72.5° | 13.7  | 13.7  | 13.7  | 13.7  | 13.7  | 13.7  | 13.7  | 13.7  | 14.5  | 14.5  | 14.5  |
| 75°   | 9.9   | 9.9   | 9.9   | 9.9   | 9.1   | 9.1   | 9.1   | 9.1   | 9.1   | 9.1   | 9.1   |
| 77.5° | 6.9   | 6.9   | 6.9   | 6.1   | 6.1   | 5.3   | 5.3   | 5.3   | 5.3   | 5.3   | 4.6   |
| 80°   | 3.8   | 3.8   | 3.8   | 3.8   | 3.8   | 3.0   | 3.0   | 2.3   | 2.3   | 2.3   | 2.3   |
| 82.5° | 2.3   | 2.3   | 2.3   | 1.5   | 1.5   | 1.5   | 1.5   | 0.8   | 0.8   | 0.8   | 0.8   |
| 85°   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)