

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\_4000K

Issue Date: 5/8/2026

**Test Information**

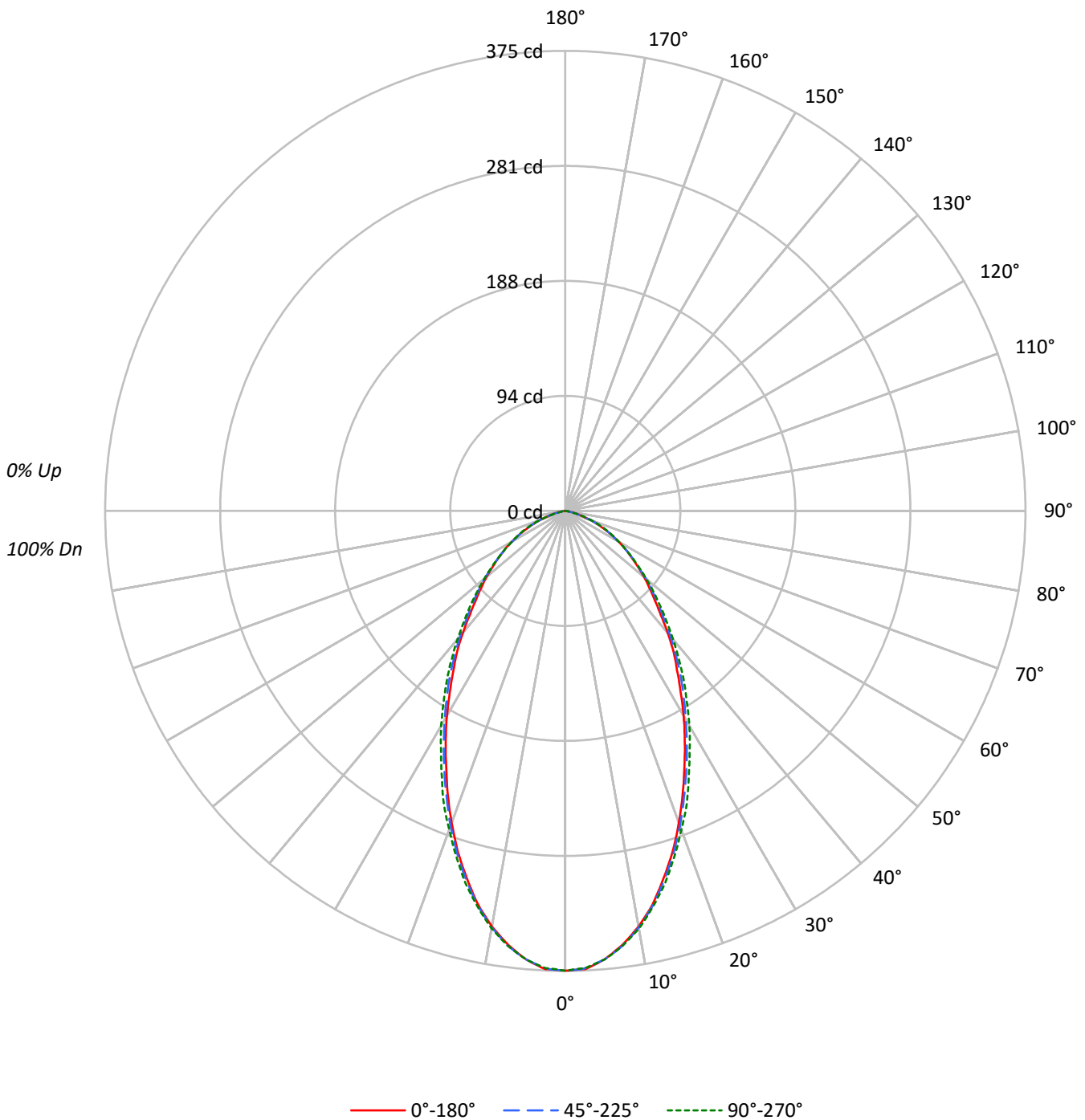
Test Method: LM-79-2019  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART09R70W2N902750DE010 E3CLDWW1MMS\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 4000K CCT AND, 90CRI ,  
E3CLDWW1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 522.1 lumens  
Efficiency: N/A  
Efficacy: 58.0 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





TEST NUMBER: P#

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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  | 75  | 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  | 60  | 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°  | 82186 | 82186 | 82186 |
| 5°  | 80805 | 80805 | 80805 |
| 10° | 76596 | 76797 | 76975 |
| 15° | 70352 | 70738 | 71328 |
| 20° | 63145 | 63752 | 64546 |
| 25° | 55552 | 56398 | 57632 |
| 30° | 48843 | 49704 | 51223 |
| 35° | 42510 | 43875 | 45026 |
| 40° | 37155 | 38129 | 39102 |
| 45° | 32034 | 33089 | 33895 |
| 50° | 28553 | 29133 | 29406 |
| 55° | 25117 | 25461 | 25461 |
| 60° | 22103 | 21709 | 22103 |
| 65° | 18160 | 18627 | 19042 |
| 70° | 14233 | 14233 | 14746 |
| 75° | 9404  | 8642  | 8642  |
| 80° | 5430  | 4293  | 3283  |
| 85° | 2264  | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 75°  
 Vertical Angle: 45°  
 Luminance: 33895 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 34.3   | 6.6       |
| 10°-20°   | 87.0   | 16.7      |
| 20°-30°   | 107.3  | 20.6      |
| 30°-40°   | 102.3  | 19.6      |
| 40°-50°   | 82.8   | 15.9      |
| 50°-60°   | 59.6   | 11.4      |
| 60°-70°   | 35.7   | 6.8       |
| 70°-80°   | 12.0   | 2.3       |
| 80°-90°   | 1.0    | 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°    | 228.7  | 43.8      |
| 0°-40°    | 331.0  | 63.4      |
| 0°-60°    | 473.4  | 90.7      |
| 0°-90°    | 522.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 522.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 375 | 375   | 375 | 375   | 375 |      |
| 5°  | 367 | 367   | 367 | 367   | 367 | 34   |
| 15° | 310 | 310   | 312 | 313   | 314 | 87   |
| 25° | 230 | 231   | 233 | 237   | 238 | 106  |
| 35° | 159 | 160   | 164 | 167   | 168 | 100  |
| 45° | 103 | 105   | 107 | 109   | 109 | 81   |
| 55° | 66  | 66    | 67  | 67    | 67  | 59   |
| 65° | 35  | 36    | 36  | 37    | 37  | 35   |
| 75° | 11  | 11    | 10  | 10    | 10  | 12   |
| 85° | 1   | 1     | 0   | 0     | 0   | 2    |
| 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°    | 374.8 | 374.8 | 374.8 | 374.8 | 374.8 | 374.8 | 374.8 | 374.8 | 374.8 | 374.8 | 374.8 |
| 2°    | 373.9 | 373.9 | 373.9 | 373.9 | 373.9 | 373.9 | 373.9 | 373.9 | 373.9 | 373.9 | 373.1 |
| 2.5°  | 373.9 | 373.1 | 373.1 | 373.1 | 373.1 | 373.1 | 373.1 | 373.1 | 373.1 | 373.9 | 373.1 |
| 5°    | 367.1 | 367.1 | 367.1 | 367.1 | 367.1 | 367.1 | 367.1 | 367.1 | 367.9 | 367.1 | 367.1 |
| 7.5°  | 356.8 | 356.8 | 356.8 | 356.8 | 357.7 | 357.7 | 357.7 | 357.7 | 358.6 | 358.6 | 357.7 |
| 10°   | 344.0 | 344.0 | 344.0 | 344.0 | 344.9 | 344.9 | 345.7 | 344.9 | 344.9 | 345.7 | 345.7 |
| 12.5° | 328.7 | 327.8 | 327.8 | 327.8 | 328.7 | 329.5 | 329.5 | 329.5 | 330.4 | 330.4 | 330.4 |
| 15°   | 309.9 | 309.9 | 309.9 | 310.7 | 310.7 | 311.6 | 312.5 | 312.5 | 313.3 | 313.3 | 314.2 |
| 17.5° | 291.1 | 291.1 | 290.3 | 291.1 | 292.0 | 292.8 | 293.7 | 294.5 | 295.4 | 295.4 | 295.4 |
| 20°   | 270.6 | 269.8 | 270.6 | 271.5 | 272.3 | 273.2 | 274.0 | 275.7 | 276.6 | 276.6 | 276.6 |
| 22.5° | 250.1 | 249.3 | 250.1 | 251.0 | 251.8 | 252.7 | 255.3 | 256.1 | 257.0 | 257.0 | 258.7 |
| 25°   | 229.6 | 229.6 | 230.5 | 231.4 | 232.2 | 233.1 | 234.8 | 236.5 | 237.3 | 238.2 | 238.2 |
| 27.5° | 210.9 | 210.9 | 210.9 | 210.9 | 212.6 | 214.3 | 216.0 | 217.7 | 218.5 | 219.4 | 219.4 |
| 30°   | 192.9 | 192.1 | 192.1 | 192.9 | 194.6 | 196.3 | 198.1 | 199.8 | 200.6 | 201.5 | 202.3 |
| 32.5° | 175.0 | 175.0 | 175.0 | 175.9 | 176.7 | 179.3 | 181.0 | 181.8 | 183.5 | 184.4 | 184.4 |
| 35°   | 158.8 | 158.8 | 158.8 | 160.5 | 162.2 | 163.9 | 164.8 | 166.5 | 168.2 | 168.2 | 168.2 |
| 37.5° | 145.1 | 146.0 | 147.7 | 146.8 | 146.8 | 147.7 | 148.5 | 150.3 | 152.0 | 152.0 | 152.0 |
| 40°   | 129.8 | 130.6 | 131.5 | 130.6 | 131.5 | 133.2 | 134.0 | 134.9 | 135.7 | 136.6 | 136.6 |
| 42.5° | 115.2 | 115.2 | 115.2 | 116.1 | 117.8 | 118.7 | 120.4 | 121.2 | 122.1 | 122.1 | 122.1 |
| 45°   | 103.3 | 103.3 | 104.2 | 105.0 | 105.9 | 106.7 | 107.6 | 108.4 | 109.3 | 109.3 | 109.3 |
| 47.5° | 93.1  | 93.1  | 93.9  | 93.9  | 94.8  | 95.6  | 96.5  | 96.5  | 97.3  | 98.2  | 97.3  |
| 50°   | 83.7  | 83.7  | 83.7  | 84.5  | 84.5  | 85.4  | 85.4  | 86.2  | 86.2  | 86.2  | 86.2  |
| 52.5° | 74.3  | 74.3  | 74.3  | 74.3  | 75.1  | 75.1  | 75.1  | 76.0  | 76.0  | 76.0  | 76.0  |
| 55°   | 65.7  | 65.7  | 65.7  | 65.7  | 65.7  | 66.6  | 66.6  | 66.6  | 66.6  | 66.6  | 66.6  |
| 57.5° | 58.1  | 58.1  | 58.1  | 58.1  | 58.1  | 58.1  | 58.1  | 58.1  | 58.1  | 58.1  | 58.1  |
| 60°   | 50.4  | 50.4  | 50.4  | 50.4  | 50.4  | 49.5  | 50.4  | 50.4  | 50.4  | 50.4  | 50.4  |
| 62.5° | 42.7  | 42.7  | 42.7  | 42.7  | 42.7  | 42.7  | 42.7  | 43.5  | 43.5  | 43.5  | 43.5  |
| 65°   | 35.0  | 35.9  | 35.9  | 35.9  | 35.9  | 35.9  | 35.9  | 36.7  | 36.7  | 36.7  | 36.7  |
| 67.5° | 28.2  | 29.0  | 29.0  | 29.0  | 29.0  | 29.0  | 29.0  | 29.0  | 29.9  | 29.9  | 29.9  |
| 70°   | 22.2  | 22.2  | 22.2  | 22.2  | 22.2  | 22.2  | 22.2  | 22.2  | 22.2  | 22.2  | 23.0  |
| 72.5° | 15.4  | 15.4  | 15.4  | 15.4  | 15.4  | 15.4  | 15.4  | 15.4  | 16.2  | 16.2  | 16.2  |
| 75°   | 11.1  | 11.1  | 11.1  | 11.1  | 10.2  | 10.2  | 10.2  | 10.2  | 10.2  | 10.2  | 10.2  |
| 77.5° | 7.7   | 7.7   | 7.7   | 6.8   | 6.8   | 6.0   | 6.0   | 6.0   | 6.0   | 6.0   | 5.1   |
| 80°   | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 3.4   | 3.4   | 2.6   | 2.6   | 2.6   | 2.6   |
| 82.5° | 2.6   | 2.6   | 2.6   | 1.7   | 1.7   | 1.7   | 1.7   | 0.9   | 0.9   | 0.9   | 0.9   |
| 85°   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 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)