

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: P1446808

Luminaire Tested: P3ART09R709740DE010 E3CLDWW1MW

Issue Date: 5/8/2026

**Test Information**

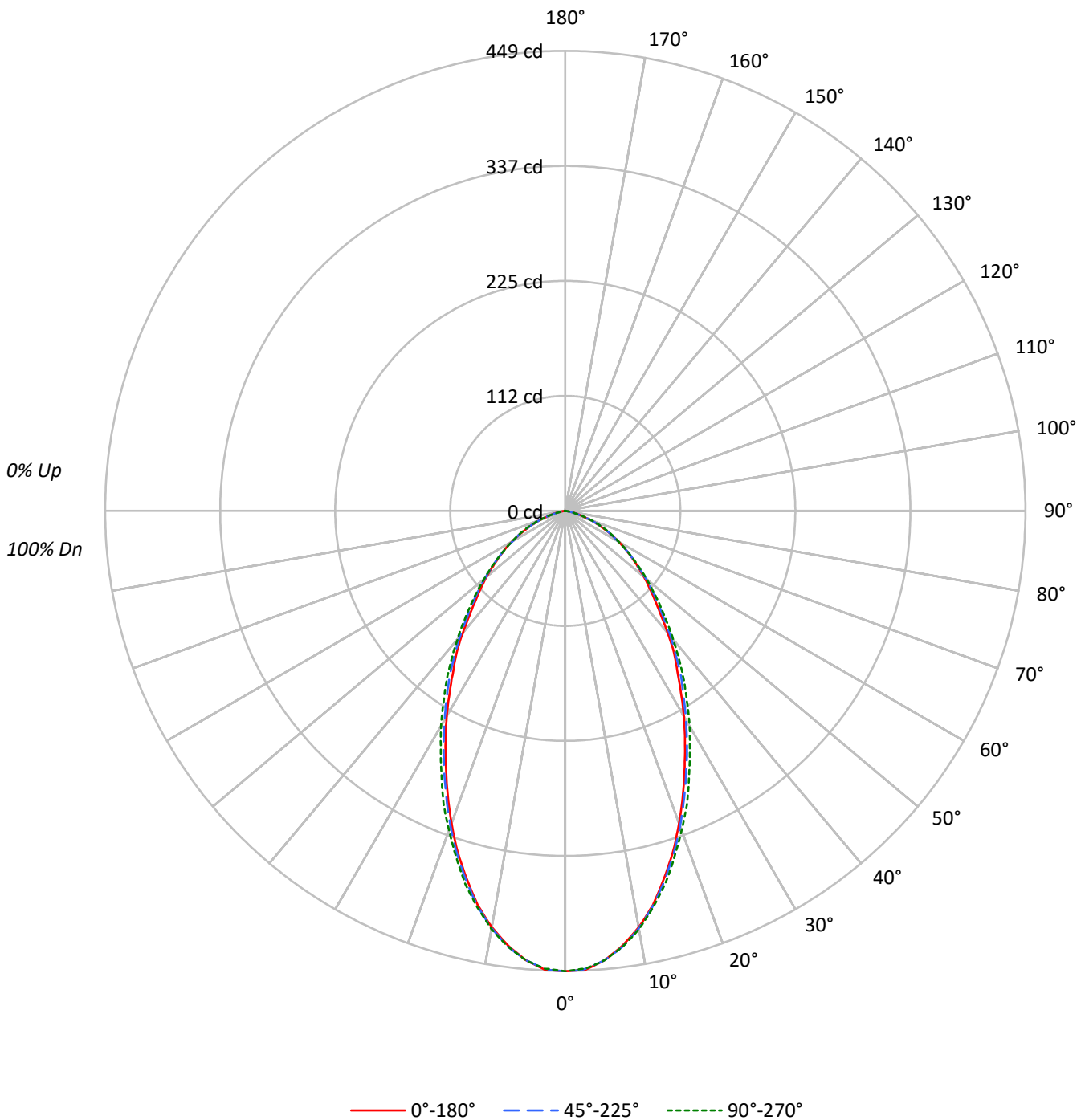
Test Method: LM-79-2019  
Report Number: P1446808  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART09R709740DE010 E3CLDWW1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , E3CLDWW1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 626.0 lumens  
Efficiency: N/A  
Efficacy: 56.4 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): 11.1  
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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 97  | 97  | 95  | 94  | 94  | 92  | 91  | 91  | 91  | 91  | 89  |
| 2   | 103 | 97  | 91  | 87  | 101 | 95  | 90  | 86  | 92  | 87  | 84  | 88  | 85  | 82  | 85  | 83  | 80  | 80  | 80  | 80  | 78  |
| 3   | 96  | 87  | 81  | 75  | 94  | 86  | 80  | 75  | 83  | 78  | 73  | 80  | 76  | 72  | 78  | 74  | 71  | 71  | 71  | 71  | 69  |
| 4   | 89  | 79  | 72  | 66  | 87  | 78  | 71  | 66  | 76  | 70  | 65  | 73  | 68  | 64  | 71  | 67  | 63  | 63  | 63  | 63  | 61  |
| 5   | 83  | 72  | 64  | 59  | 81  | 71  | 64  | 59  | 69  | 63  | 58  | 67  | 62  | 57  | 66  | 61  | 57  | 57  | 57  | 57  | 55  |
| 6   | 78  | 66  | 58  | 53  | 76  | 65  | 58  | 53  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 51  | 51  | 51  | 51  | 50  |
| 7   | 73  | 61  | 53  | 48  | 71  | 60  | 53  | 48  | 59  | 52  | 47  | 57  | 52  | 47  | 56  | 51  | 47  | 47  | 47  | 47  | 45  |
| 8   | 68  | 56  | 49  | 44  | 67  | 56  | 49  | 44  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 43  | 43  | 43  | 41  |
| 9   | 64  | 52  | 45  | 40  | 63  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 40  | 49  | 43  | 40  | 40  | 40  | 40  | 38  |
| 10  | 61  | 49  | 42  | 37  | 60  | 48  | 42  | 37  | 47  | 41  | 37  | 47  | 41  | 37  | 46  | 40  | 37  | 37  | 37  | 37  | 35  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 98545 | 98545 | 98545 |
| 5°  | 96896 | 96896 | 96896 |
| 10° | 91871 | 92094 | 92316 |
| 15° | 84359 | 84836 | 85540 |
| 20° | 75723 | 76447 | 77403 |
| 25° | 66633 | 67625 | 69101 |
| 30° | 58591 | 59629 | 61427 |
| 35° | 50969 | 52628 | 53994 |
| 40° | 44541 | 45714 | 46888 |
| 45° | 38423 | 39694 | 40624 |
| 50° | 34216 | 34933 | 35274 |
| 55° | 30126 | 30546 | 30546 |
| 60° | 26489 | 26051 | 26489 |
| 65° | 21792 | 22311 | 22830 |
| 70° | 17054 | 17054 | 17695 |
| 75° | 11268 | 10421 | 10421 |
| 80° | 6440  | 5177  | 3915  |
| 85° | 2516  | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 75°  
 Vertical Angle: 45°  
 Luminance: 40624 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 41.2   | 6.6       |
| 10°-20°   | 104.4  | 16.7      |
| 20°-30°   | 128.7  | 20.6      |
| 30°-40°   | 122.7  | 19.6      |
| 40°-50°   | 99.2   | 15.9      |
| 50°-60°   | 71.5   | 11.4      |
| 60°-70°   | 42.8   | 6.8       |
| 70°-80°   | 14.3   | 2.3       |
| 80°-90°   | 1.2    | 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°    | 274.3  | 43.8      |
| 0°-40°    | 396.9  | 63.4      |
| 0°-60°    | 567.6  | 90.7      |
| 0°-90°    | 626.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 626.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 449 | 449   | 449 | 449   | 449 |      |
| 5°  | 440 | 440   | 440 | 440   | 440 | 41   |
| 15° | 372 | 372   | 374 | 375   | 377 | 104  |
| 25° | 275 | 277   | 280 | 284   | 286 | 127  |
| 35° | 190 | 192   | 197 | 200   | 202 | 120  |
| 45° | 124 | 126   | 128 | 130   | 131 | 97   |
| 55° | 79  | 79    | 80  | 80    | 80  | 71   |
| 65° | 42  | 43    | 43  | 44    | 44  | 42   |
| 75° | 13  | 13    | 12  | 12    | 12  | 15   |
| 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°    | 449.4 | 449.4 | 449.4 | 449.4 | 449.4 | 449.4 | 449.4 | 449.4 | 449.4 | 449.4 | 449.4 |
| 2°    | 448.4 | 448.4 | 448.4 | 448.4 | 448.4 | 448.4 | 448.4 | 448.4 | 448.4 | 448.4 | 447.4 |
| 2.5°  | 448.4 | 447.4 | 447.4 | 447.4 | 447.4 | 447.4 | 447.4 | 447.4 | 447.4 | 448.4 | 447.4 |
| 5°    | 440.2 | 440.2 | 440.2 | 440.2 | 440.2 | 440.2 | 440.2 | 440.2 | 441.2 | 440.2 | 440.2 |
| 7.5°  | 427.9 | 427.9 | 427.9 | 427.9 | 429.0 | 429.0 | 429.0 | 429.0 | 430.0 | 430.0 | 429.0 |
| 10°   | 412.6 | 412.6 | 412.6 | 412.6 | 413.6 | 413.6 | 414.6 | 413.6 | 413.6 | 414.6 | 414.6 |
| 12.5° | 394.2 | 393.1 | 393.1 | 393.1 | 394.2 | 395.2 | 395.2 | 395.2 | 396.2 | 396.2 | 396.2 |
| 15°   | 371.6 | 371.6 | 371.6 | 372.7 | 372.7 | 373.7 | 374.7 | 374.7 | 375.7 | 375.7 | 376.8 |
| 17.5° | 349.1 | 349.1 | 348.1 | 349.1 | 350.1 | 351.2 | 352.2 | 353.2 | 354.2 | 354.2 | 354.2 |
| 20°   | 324.5 | 323.5 | 324.5 | 325.6 | 326.6 | 327.6 | 328.6 | 330.7 | 331.7 | 331.7 | 331.7 |
| 22.5° | 300.0 | 298.9 | 300.0 | 301.0 | 302.0 | 303.0 | 306.1 | 307.1 | 308.2 | 308.2 | 310.2 |
| 25°   | 275.4 | 275.4 | 276.4 | 277.4 | 278.5 | 279.5 | 281.5 | 283.6 | 284.6 | 285.6 | 285.6 |
| 27.5° | 252.9 | 252.9 | 252.9 | 252.9 | 254.9 | 257.0 | 259.0 | 261.1 | 262.1 | 263.1 | 263.1 |
| 30°   | 231.4 | 230.4 | 230.4 | 231.4 | 233.4 | 235.5 | 237.5 | 239.6 | 240.6 | 241.6 | 242.6 |
| 32.5° | 209.9 | 209.9 | 209.9 | 210.9 | 211.9 | 215.0 | 217.0 | 218.1 | 220.1 | 221.1 | 221.1 |
| 35°   | 190.4 | 190.4 | 190.4 | 192.5 | 194.5 | 196.6 | 197.6 | 199.6 | 201.7 | 201.7 | 201.7 |
| 37.5° | 174.0 | 175.1 | 177.1 | 176.1 | 176.1 | 177.1 | 178.1 | 180.2 | 182.2 | 182.2 | 182.2 |
| 40°   | 155.6 | 156.6 | 157.7 | 156.6 | 157.7 | 159.7 | 160.7 | 161.8 | 162.8 | 163.8 | 163.8 |
| 42.5° | 138.2 | 138.2 | 138.2 | 139.2 | 141.3 | 142.3 | 144.4 | 145.4 | 146.4 | 146.4 | 146.4 |
| 45°   | 123.9 | 123.9 | 124.9 | 125.9 | 126.9 | 128.0 | 129.0 | 130.0 | 131.0 | 131.0 | 131.0 |
| 47.5° | 111.6 | 111.6 | 112.6 | 112.6 | 113.6 | 114.7 | 115.7 | 115.7 | 116.7 | 117.7 | 116.7 |
| 50°   | 100.3 | 100.3 | 100.3 | 101.4 | 101.4 | 102.4 | 102.4 | 103.4 | 103.4 | 103.4 | 103.4 |
| 52.5° | 89.1  | 89.1  | 89.1  | 89.1  | 90.1  | 90.1  | 90.1  | 91.1  | 91.1  | 91.1  | 91.1  |
| 55°   | 78.8  | 78.8  | 78.8  | 78.8  | 78.8  | 79.9  | 79.9  | 79.9  | 79.9  | 79.9  | 79.9  |
| 57.5° | 69.6  | 69.6  | 69.6  | 69.6  | 69.6  | 69.6  | 69.6  | 69.6  | 69.6  | 69.6  | 69.6  |
| 60°   | 60.4  | 60.4  | 60.4  | 60.4  | 60.4  | 59.4  | 60.4  | 60.4  | 60.4  | 60.4  | 60.4  |
| 62.5° | 51.2  | 51.2  | 51.2  | 51.2  | 51.2  | 51.2  | 51.2  | 52.2  | 52.2  | 52.2  | 52.2  |
| 65°   | 42.0  | 43.0  | 43.0  | 43.0  | 43.0  | 43.0  | 43.0  | 44.0  | 44.0  | 44.0  | 44.0  |
| 67.5° | 33.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 34.8  | 35.8  | 35.8  | 35.8  |
| 70°   | 26.6  | 26.6  | 26.6  | 26.6  | 26.6  | 26.6  | 26.6  | 26.6  | 26.6  | 26.6  | 27.6  |
| 72.5° | 18.4  | 18.4  | 18.4  | 18.4  | 18.4  | 18.4  | 18.4  | 18.4  | 19.5  | 19.5  | 19.5  |
| 75°   | 13.3  | 13.3  | 13.3  | 13.3  | 12.3  | 12.3  | 12.3  | 12.3  | 12.3  | 12.3  | 12.3  |
| 77.5° | 9.2   | 9.2   | 9.2   | 8.2   | 8.2   | 7.2   | 7.2   | 7.2   | 7.2   | 7.2   | 6.1   |
| 80°   | 5.1   | 5.1   | 5.1   | 5.1   | 5.1   | 4.1   | 4.1   | 3.1   | 3.1   | 3.1   | 3.1   |
| 82.5° | 3.1   | 3.1   | 3.1   | 2.0   | 2.0   | 2.0   | 2.0   | 1.0   | 1.0   | 1.0   | 1.0   |
| 85°   | 1.0   | 1.0   | 1.0   | 1.0   | 1.0   | 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)