

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: P1446848

Luminaire Tested: P3ART13R709827DE010 E3LDWW1MW

Issue Date: 5/8/2026

**Test Information**

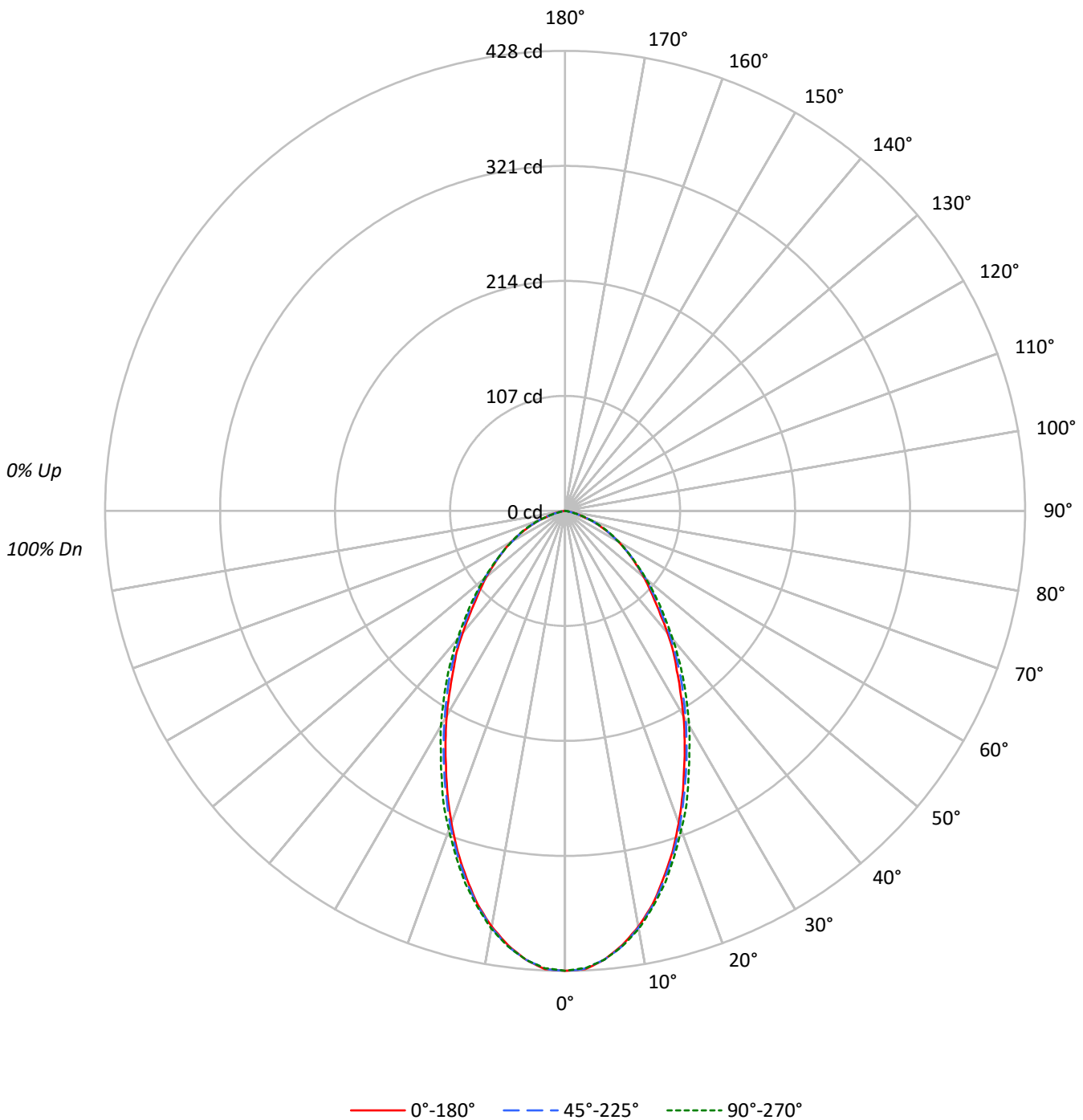
Test Method: LM-79-2019  
Report Number: P1446848  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART13R709827DE010 E3LDWW1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , E3LDWW1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 596.0 lumens  
Efficiency: N/A  
Efficacy: 41.1 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): 14.5  
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  | 44  | 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°  | 93830 | 93830 | 93830 |
| 5°  | 92252 | 92252 | 92252 |
| 10° | 87462 | 87685 | 87908 |
| 15° | 80318 | 80772 | 81431 |
| 20° | 72106 | 72783 | 73693 |
| 25° | 63439 | 64383 | 65786 |
| 30° | 55781 | 56768 | 58490 |
| 35° | 48533 | 50085 | 51397 |
| 40° | 42422 | 43539 | 44655 |
| 45° | 36562 | 37771 | 38702 |
| 50° | 32579 | 33261 | 33568 |
| 55° | 28711 | 29055 | 29055 |
| 60° | 25217 | 24779 | 25217 |
| 65° | 20754 | 21221 | 21740 |
| 70° | 16221 | 16221 | 16862 |
| 75° | 10760 | 9913  | 9913  |
| 80° | 6188  | 4925  | 3662  |
| 85° | 2516  | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 75°  
 Vertical Angle: 45°  
 Luminance: 38702 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 39.2   | 6.6       |
| 10°-20°   | 99.4   | 16.7      |
| 20°-30°   | 122.6  | 20.6      |
| 30°-40°   | 116.8  | 19.6      |
| 40°-50°   | 94.5   | 15.9      |
| 50°-60°   | 68.1   | 11.4      |
| 60°-70°   | 40.7   | 6.8       |
| 70°-80°   | 13.6   | 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°    | 261.1  | 43.8      |
| 0°-40°    | 377.9  | 63.4      |
| 0°-60°    | 540.4  | 90.7      |
| 0°-90°    | 596.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 596.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 428 | 428   | 428 | 428   | 428 |      |
| 5°  | 419 | 419   | 419 | 419   | 419 | 39   |
| 15° | 354 | 355   | 356 | 357   | 359 | 99   |
| 25° | 262 | 264   | 266 | 270   | 272 | 121  |
| 35° | 181 | 183   | 187 | 191   | 192 | 114  |
| 45° | 118 | 120   | 122 | 124   | 125 | 92   |
| 55° | 75  | 75    | 76  | 76    | 76  | 68   |
| 65° | 40  | 41    | 41  | 42    | 42  | 40   |
| 75° | 13  | 13    | 12  | 12    | 12  | 14   |
| 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°    | 427.9 | 427.9 | 427.9 | 427.9 | 427.9 | 427.9 | 427.9 | 427.9 | 427.9 | 427.9 | 427.9 |
| 2°    | 426.9 | 426.9 | 426.9 | 426.9 | 426.9 | 426.9 | 426.9 | 426.9 | 426.9 | 426.9 | 426.0 |
| 2.5°  | 426.9 | 426.0 | 426.0 | 426.0 | 426.0 | 426.0 | 426.0 | 426.0 | 426.0 | 426.9 | 426.0 |
| 5°    | 419.1 | 419.1 | 419.1 | 419.1 | 419.1 | 419.1 | 419.1 | 419.1 | 420.1 | 419.1 | 419.1 |
| 7.5°  | 407.4 | 407.4 | 407.4 | 407.4 | 408.4 | 408.4 | 408.4 | 408.4 | 409.4 | 409.4 | 408.4 |
| 10°   | 392.8 | 392.8 | 392.8 | 392.8 | 393.8 | 393.8 | 394.8 | 393.8 | 393.8 | 394.8 | 394.8 |
| 12.5° | 375.3 | 374.3 | 374.3 | 374.3 | 375.3 | 376.2 | 376.2 | 376.2 | 377.2 | 377.2 | 377.2 |
| 15°   | 353.8 | 353.8 | 353.8 | 354.8 | 354.8 | 355.8 | 356.7 | 356.7 | 357.7 | 357.7 | 358.7 |
| 17.5° | 332.4 | 332.4 | 331.4 | 332.4 | 333.4 | 334.3 | 335.3 | 336.3 | 337.3 | 337.3 | 337.3 |
| 20°   | 309.0 | 308.0 | 309.0 | 310.0 | 310.9 | 311.9 | 312.9 | 314.8 | 315.8 | 315.8 | 315.8 |
| 22.5° | 285.6 | 284.6 | 285.6 | 286.6 | 287.5 | 288.5 | 291.4 | 292.4 | 293.4 | 293.4 | 295.3 |
| 25°   | 262.2 | 262.2 | 263.2 | 264.1 | 265.1 | 266.1 | 268.0 | 270.0 | 271.0 | 271.9 | 271.9 |
| 27.5° | 240.8 | 240.8 | 240.8 | 240.8 | 242.7 | 244.7 | 246.6 | 248.6 | 249.5 | 250.5 | 250.5 |
| 30°   | 220.3 | 219.3 | 219.3 | 220.3 | 222.2 | 224.2 | 226.1 | 228.1 | 229.1 | 230.0 | 231.0 |
| 32.5° | 199.8 | 199.8 | 199.8 | 200.8 | 201.8 | 204.7 | 206.6 | 207.6 | 209.6 | 210.5 | 210.5 |
| 35°   | 181.3 | 181.3 | 181.3 | 183.2 | 185.2 | 187.1 | 188.1 | 190.1 | 192.0 | 192.0 | 192.0 |
| 37.5° | 165.7 | 166.7 | 168.6 | 167.7 | 167.7 | 168.6 | 169.6 | 171.5 | 173.5 | 173.5 | 173.5 |
| 40°   | 148.2 | 149.1 | 150.1 | 149.1 | 150.1 | 152.1 | 153.0 | 154.0 | 155.0 | 156.0 | 156.0 |
| 42.5° | 131.6 | 131.6 | 131.6 | 132.6 | 134.5 | 135.5 | 137.4 | 138.4 | 139.4 | 139.4 | 139.4 |
| 45°   | 117.9 | 117.9 | 118.9 | 119.9 | 120.9 | 121.8 | 122.8 | 123.8 | 124.8 | 124.8 | 124.8 |
| 47.5° | 106.2 | 106.2 | 107.2 | 107.2 | 108.2 | 109.2 | 110.1 | 110.1 | 111.1 | 112.1 | 111.1 |
| 50°   | 95.5  | 95.5  | 95.5  | 96.5  | 96.5  | 97.5  | 97.5  | 98.4  | 98.4  | 98.4  | 98.4  |
| 52.5° | 84.8  | 84.8  | 84.8  | 84.8  | 85.8  | 85.8  | 85.8  | 86.7  | 86.7  | 86.7  | 86.7  |
| 55°   | 75.1  | 75.1  | 75.1  | 75.1  | 75.1  | 76.0  | 76.0  | 76.0  | 76.0  | 76.0  | 76.0  |
| 57.5° | 66.3  | 66.3  | 66.3  | 66.3  | 66.3  | 66.3  | 66.3  | 66.3  | 66.3  | 66.3  | 66.3  |
| 60°   | 57.5  | 57.5  | 57.5  | 57.5  | 57.5  | 56.5  | 57.5  | 57.5  | 57.5  | 57.5  | 57.5  |
| 62.5° | 48.7  | 48.7  | 48.7  | 48.7  | 48.7  | 48.7  | 48.7  | 49.7  | 49.7  | 49.7  | 49.7  |
| 65°   | 40.0  | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  | 41.9  | 41.9  | 41.9  | 41.9  |
| 67.5° | 32.2  | 33.1  | 33.1  | 33.1  | 33.1  | 33.1  | 33.1  | 33.1  | 34.1  | 34.1  | 34.1  |
| 70°   | 25.3  | 25.3  | 25.3  | 25.3  | 25.3  | 25.3  | 25.3  | 25.3  | 25.3  | 25.3  | 26.3  |
| 72.5° | 17.5  | 17.5  | 17.5  | 17.5  | 17.5  | 17.5  | 17.5  | 17.5  | 18.5  | 18.5  | 18.5  |
| 75°   | 12.7  | 12.7  | 12.7  | 12.7  | 11.7  | 11.7  | 11.7  | 11.7  | 11.7  | 11.7  | 11.7  |
| 77.5° | 8.8   | 8.8   | 8.8   | 7.8   | 7.8   | 6.8   | 6.8   | 6.8   | 6.8   | 6.8   | 5.8   |
| 80°   | 4.9   | 4.9   | 4.9   | 4.9   | 4.9   | 3.9   | 3.9   | 2.9   | 2.9   | 2.9   | 2.9   |
| 82.5° | 2.9   | 2.9   | 2.9   | 1.9   | 1.9   | 1.9   | 1.9   | 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)