

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: P1446340

Luminaire Tested: P3ART17R709727DE010 E3CLDWW1MW

Issue Date: 5/8/2026

**Test Information**

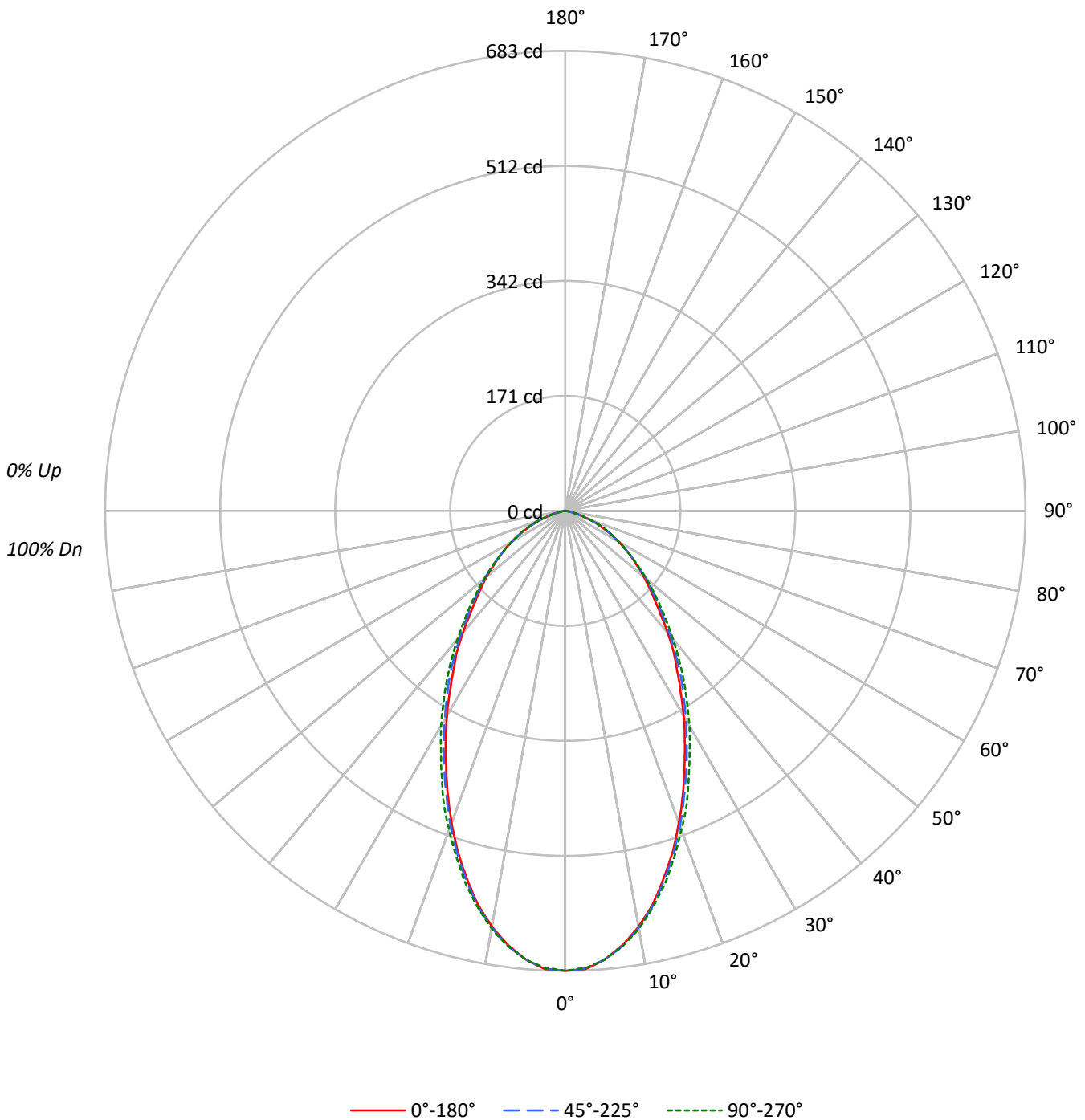
Test Method: LM-79-2019  
Report Number: P1446340  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART17R709727DE010 E3CLDWW1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , E3CLDWW1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 951.0 lumens  
Efficiency: N/A  
Efficacy: 44.9 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): 21.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°  | 149725 | 149725 | 149725 |
| 5°  | 147215 | 147215 | 147215 |
| 10° | 139565 | 139899 | 140256 |
| 15° | 128173 | 128877 | 129921 |
| 20° | 115043 | 116140 | 117587 |
| 25° | 101232 | 102732 | 104982 |
| 30° | 89001  | 90571  | 93331  |
| 35° | 77443  | 79933  | 82021  |
| 40° | 67670  | 69444  | 71219  |
| 45° | 58363  | 60285  | 61743  |
| 50° | 51990  | 53047  | 53593  |
| 55° | 45800  | 46373  | 46373  |
| 60° | 40260  | 39558  | 40260  |
| 65° | 33103  | 33882  | 34712  |
| 70° | 25902  | 25902  | 26928  |
| 75° | 17114  | 15843  | 15843  |
| 80° | 9850   | 7829   | 5935   |
| 85° | 4026   | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 75°  
 Vertical Angle: 45°  
 Luminance: 61743 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 62.6   | 6.6       |
| 10°-20°   | 158.6  | 16.7      |
| 20°-30°   | 195.6  | 20.6      |
| 30°-40°   | 186.3  | 19.6      |
| 40°-50°   | 150.8  | 15.9      |
| 50°-60°   | 108.6  | 11.4      |
| 60°-70°   | 65.0   | 6.8       |
| 70°-80°   | 21.8   | 2.3       |
| 80°-90°   | 1.9    | 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°    | 416.7  | 43.8      |
| 0°-40°    | 603.0  | 63.4      |
| 0°-60°    | 862.4  | 90.7      |
| 0°-90°    | 951.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 951.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 683 | 683   | 683 | 683   | 683 |      |
| 5°  | 669 | 669   | 669 | 669   | 669 | 62   |
| 15° | 565 | 566   | 568 | 570   | 572 | 158  |
| 25° | 418 | 421   | 425 | 431   | 434 | 193  |
| 35° | 289 | 292   | 299 | 304   | 306 | 182  |
| 45° | 188 | 191   | 194 | 198   | 199 | 147  |
| 55° | 120 | 120   | 121 | 121   | 121 | 108  |
| 65° | 64  | 65    | 65  | 67    | 67  | 64   |
| 75° | 20  | 20    | 19  | 19    | 19  | 23   |
| 85° | 2   | 2     | 0   | 0     | 0   | 3    |
| 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°    | 682.8 | 682.8 | 682.8 | 682.8 | 682.8 | 682.8 | 682.8 | 682.8 | 682.8 | 682.8 | 682.8 |
| 2°    | 681.2 | 681.2 | 681.2 | 681.2 | 681.2 | 681.2 | 681.2 | 681.2 | 681.2 | 681.2 | 679.7 |
| 2.5°  | 681.2 | 679.7 | 679.7 | 679.7 | 679.7 | 679.7 | 679.7 | 679.7 | 679.7 | 681.2 | 679.7 |
| 5°    | 668.8 | 668.8 | 668.8 | 668.8 | 668.8 | 668.8 | 668.8 | 668.8 | 670.3 | 668.8 | 668.8 |
| 7.5°  | 650.1 | 650.1 | 650.1 | 650.1 | 651.7 | 651.7 | 651.7 | 651.7 | 653.2 | 653.2 | 651.7 |
| 10°   | 626.8 | 626.8 | 626.8 | 626.8 | 628.3 | 628.3 | 629.9 | 628.3 | 628.3 | 629.9 | 629.9 |
| 12.5° | 598.8 | 597.2 | 597.2 | 597.2 | 598.8 | 600.3 | 600.3 | 600.3 | 601.9 | 601.9 | 601.9 |
| 15°   | 564.6 | 564.6 | 564.6 | 566.1 | 566.1 | 567.7 | 569.2 | 569.2 | 570.8 | 570.8 | 572.3 |
| 17.5° | 530.4 | 530.4 | 528.8 | 530.4 | 531.9 | 533.5 | 535.0 | 536.6 | 538.1 | 538.1 | 538.1 |
| 20°   | 493.0 | 491.5 | 493.0 | 494.6 | 496.1 | 497.7 | 499.2 | 502.4 | 503.9 | 503.9 | 503.9 |
| 22.5° | 455.7 | 454.1 | 455.7 | 457.3 | 458.8 | 460.4 | 465.0 | 466.6 | 468.1 | 468.1 | 471.3 |
| 25°   | 418.4 | 418.4 | 419.9 | 421.5 | 423.0 | 424.6 | 427.7 | 430.8 | 432.4 | 433.9 | 433.9 |
| 27.5° | 384.2 | 384.2 | 384.2 | 384.2 | 387.3 | 390.4 | 393.5 | 396.6 | 398.2 | 399.7 | 399.7 |
| 30°   | 351.5 | 349.9 | 349.9 | 351.5 | 354.6 | 357.7 | 360.8 | 363.9 | 365.5 | 367.0 | 368.6 |
| 32.5° | 318.8 | 318.8 | 318.8 | 320.4 | 321.9 | 326.6 | 329.7 | 331.3 | 334.4 | 335.9 | 335.9 |
| 35°   | 289.3 | 289.3 | 289.3 | 292.4 | 295.5 | 298.6 | 300.2 | 303.3 | 306.4 | 306.4 | 306.4 |
| 37.5° | 264.4 | 266.0 | 269.1 | 267.5 | 267.5 | 269.1 | 270.6 | 273.7 | 276.8 | 276.8 | 276.8 |
| 40°   | 236.4 | 238.0 | 239.5 | 238.0 | 239.5 | 242.6 | 244.2 | 245.7 | 247.3 | 248.8 | 248.8 |
| 42.5° | 210.0 | 210.0 | 210.0 | 211.5 | 214.6 | 216.2 | 219.3 | 220.9 | 222.4 | 222.4 | 222.4 |
| 45°   | 188.2 | 188.2 | 189.7 | 191.3 | 192.9 | 194.4 | 196.0 | 197.5 | 199.1 | 199.1 | 199.1 |
| 47.5° | 169.5 | 169.5 | 171.1 | 171.1 | 172.6 | 174.2 | 175.7 | 175.7 | 177.3 | 178.9 | 177.3 |
| 50°   | 152.4 | 152.4 | 152.4 | 154.0 | 154.0 | 155.5 | 155.5 | 157.1 | 157.1 | 157.1 | 157.1 |
| 52.5° | 135.3 | 135.3 | 135.3 | 135.3 | 136.9 | 136.9 | 136.9 | 138.4 | 138.4 | 138.4 | 138.4 |
| 55°   | 119.8 | 119.8 | 119.8 | 119.8 | 119.8 | 121.3 | 121.3 | 121.3 | 121.3 | 121.3 | 121.3 |
| 57.5° | 105.8 | 105.8 | 105.8 | 105.8 | 105.8 | 105.8 | 105.8 | 105.8 | 105.8 | 105.8 | 105.8 |
| 60°   | 91.8  | 91.8  | 91.8  | 91.8  | 91.8  | 90.2  | 91.8  | 91.8  | 91.8  | 91.8  | 91.8  |
| 62.5° | 77.8  | 77.8  | 77.8  | 77.8  | 77.8  | 77.8  | 77.8  | 79.3  | 79.3  | 79.3  | 79.3  |
| 65°   | 63.8  | 65.3  | 65.3  | 65.3  | 65.3  | 65.3  | 65.3  | 66.9  | 66.9  | 66.9  | 66.9  |
| 67.5° | 51.3  | 52.9  | 52.9  | 52.9  | 52.9  | 52.9  | 52.9  | 52.9  | 54.4  | 54.4  | 54.4  |
| 70°   | 40.4  | 40.4  | 40.4  | 40.4  | 40.4  | 40.4  | 40.4  | 40.4  | 40.4  | 40.4  | 42.0  |
| 72.5° | 28.0  | 28.0  | 28.0  | 28.0  | 28.0  | 28.0  | 28.0  | 28.0  | 29.6  | 29.6  | 29.6  |
| 75°   | 20.2  | 20.2  | 20.2  | 20.2  | 18.7  | 18.7  | 18.7  | 18.7  | 18.7  | 18.7  | 18.7  |
| 77.5° | 14.0  | 14.0  | 14.0  | 12.4  | 12.4  | 10.9  | 10.9  | 10.9  | 10.9  | 10.9  | 9.3   |
| 80°   | 7.8   | 7.8   | 7.8   | 7.8   | 7.8   | 6.2   | 6.2   | 4.7   | 4.7   | 4.7   | 4.7   |
| 82.5° | 4.7   | 4.7   | 4.7   | 3.1   | 3.1   | 3.1   | 3.1   | 1.6   | 1.6   | 1.6   | 1.6   |
| 85°   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 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)