

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: P1445976

Luminaire Tested: P3ART02R709035DE010 E3CLDWW1MW

Issue Date: 5/8/2026

**Test Information**

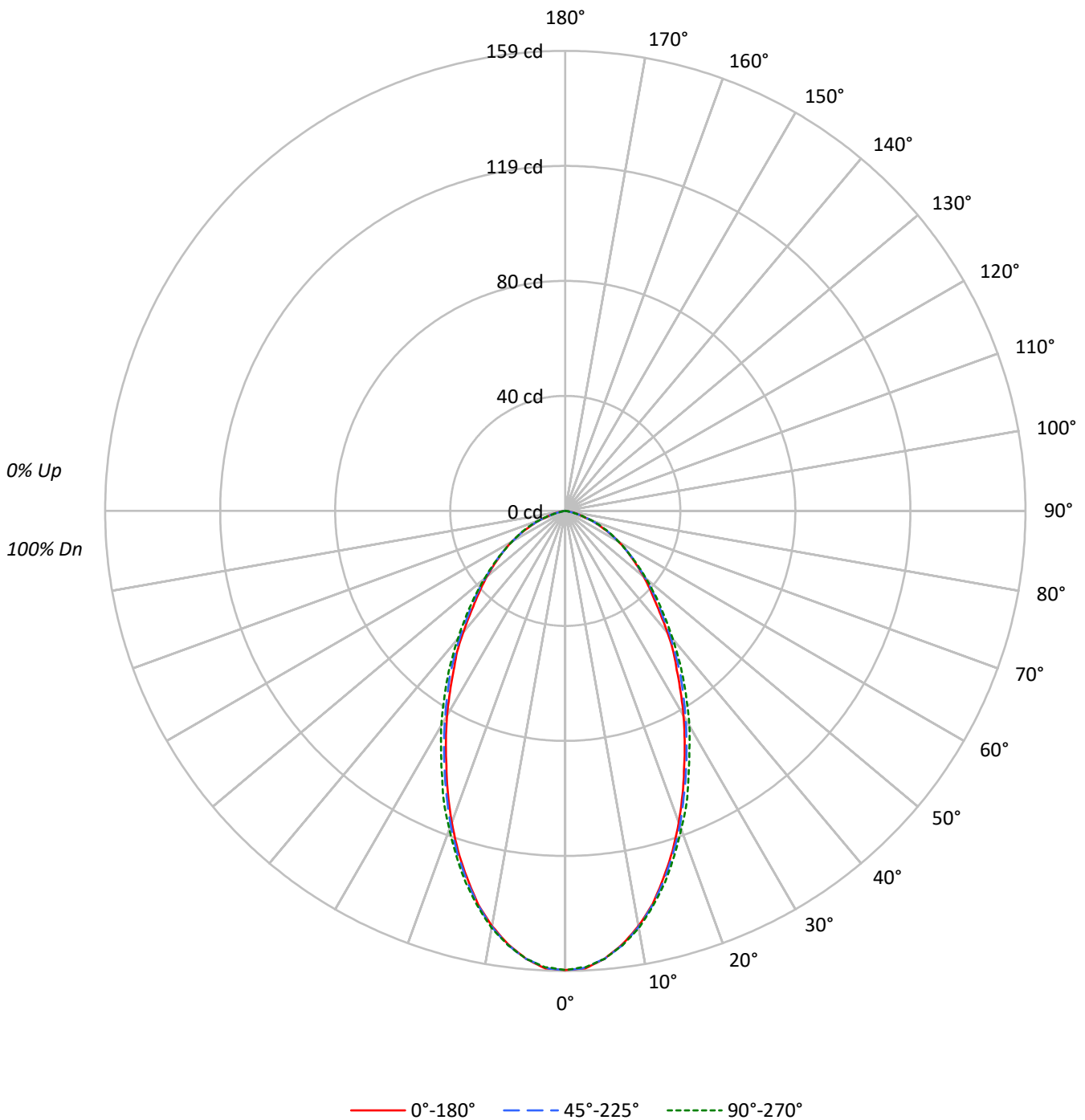
Test Method: LM-79-2019  
Report Number: P1445976  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART02R709035DE010 E3CLDWW1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 90CRI , E3CLDWW1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 221.0 lumens  
Efficiency: N/A  
Efficacy: 61.4 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): 3.6  
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°  | 34800 | 34800 | 34800 |
| 5°  | 34206 | 34206 | 34206 |
| 10° | 32442 | 32509 | 32598 |
| 15° | 29785 | 29943 | 30193 |
| 20° | 26742 | 26999 | 27326 |
| 25° | 23517 | 23880 | 24389 |
| 30° | 20687 | 21041 | 21700 |
| 35° | 17989 | 18578 | 19060 |
| 40° | 15715 | 16145 | 16545 |
| 45° | 13552 | 14017 | 14358 |
| 50° | 12076 | 12315 | 12452 |
| 55° | 10628 | 10781 | 10781 |
| 60° | 9341  | 9210  | 9341  |
| 65° | 7679  | 7887  | 8042  |
| 70° | 6027  | 6027  | 6283  |
| 75° | 3982  | 3643  | 3643  |
| 80° | 2273  | 1768  | 1389  |
| 85° | 1006  | 0     | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 75°  
 Vertical Angle: 45°  
 Luminance: 14358 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 14.5   | 6.6       |
| 10°-20°   | 36.8   | 16.7      |
| 20°-30°   | 45.4   | 20.6      |
| 30°-40°   | 43.3   | 19.6      |
| 40°-50°   | 35.0   | 15.9      |
| 50°-60°   | 25.2   | 11.4      |
| 60°-70°   | 15.1   | 6.8       |
| 70°-80°   | 5.1    | 2.3       |
| 80°-90°   | 0.4    | 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°    | 96.8   | 43.8      |
| 0°-40°    | 140.1  | 63.4      |
| 0°-60°    | 200.4  | 90.7      |
| 0°-90°    | 221.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 221.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 159 | 159   | 159 | 159   | 159 |      |
| 5°  | 155 | 155   | 155 | 156   | 155 | 15   |
| 15° | 131 | 132   | 132 | 132   | 133 | 37   |
| 25° | 97  | 98    | 99  | 100   | 101 | 45   |
| 35° | 67  | 68    | 69  | 71    | 71  | 42   |
| 45° | 44  | 44    | 45  | 46    | 46  | 34   |
| 55° | 28  | 28    | 28  | 28    | 28  | 25   |
| 65° | 15  | 15    | 15  | 16    | 16  | 15   |
| 75° | 5   | 5     | 4   | 4     | 4   | 5    |
| 85° | 0   | 0     | 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°    | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 |
| 2°    | 158.3 | 158.3 | 158.3 | 158.3 | 158.3 | 158.3 | 158.3 | 158.3 | 158.3 | 158.3 | 157.9 |
| 2.5°  | 158.3 | 157.9 | 157.9 | 157.9 | 157.9 | 157.9 | 157.9 | 157.9 | 157.9 | 158.3 | 157.9 |
| 5°    | 155.4 | 155.4 | 155.4 | 155.4 | 155.4 | 155.4 | 155.4 | 155.4 | 155.8 | 155.4 | 155.4 |
| 7.5°  | 151.1 | 151.1 | 151.1 | 151.1 | 151.4 | 151.4 | 151.4 | 151.4 | 151.8 | 151.8 | 151.4 |
| 10°   | 145.7 | 145.7 | 145.7 | 145.7 | 146.0 | 146.0 | 146.4 | 146.0 | 146.0 | 146.4 | 146.4 |
| 12.5° | 139.2 | 138.8 | 138.8 | 138.8 | 139.2 | 139.5 | 139.5 | 139.5 | 139.9 | 139.9 | 139.9 |
| 15°   | 131.2 | 131.2 | 131.2 | 131.6 | 131.6 | 131.9 | 132.3 | 132.3 | 132.6 | 132.6 | 133.0 |
| 17.5° | 123.2 | 123.2 | 122.9 | 123.2 | 123.6 | 124.0 | 124.3 | 124.7 | 125.1 | 125.1 | 125.1 |
| 20°   | 114.6 | 114.2 | 114.6 | 114.9 | 115.3 | 115.7 | 116.0 | 116.7 | 117.1 | 117.1 | 117.1 |
| 22.5° | 105.9 | 105.5 | 105.9 | 106.3 | 106.6 | 107.0 | 108.1 | 108.4 | 108.8 | 108.8 | 109.5 |
| 25°   | 97.2  | 97.2  | 97.6  | 97.9  | 98.3  | 98.7  | 99.4  | 100.1 | 100.5 | 100.8 | 100.8 |
| 27.5° | 89.3  | 89.3  | 89.3  | 89.3  | 90.0  | 90.7  | 91.4  | 92.2  | 92.5  | 92.9  | 92.9  |
| 30°   | 81.7  | 81.3  | 81.3  | 81.7  | 82.4  | 83.1  | 83.9  | 84.6  | 84.9  | 85.3  | 85.7  |
| 32.5° | 74.1  | 74.1  | 74.1  | 74.5  | 74.8  | 75.9  | 76.6  | 77.0  | 77.7  | 78.1  | 78.1  |
| 35°   | 67.2  | 67.2  | 67.2  | 67.9  | 68.7  | 69.4  | 69.8  | 70.5  | 71.2  | 71.2  | 71.2  |
| 37.5° | 61.4  | 61.8  | 62.5  | 62.2  | 62.2  | 62.5  | 62.9  | 63.6  | 64.3  | 64.3  | 64.3  |
| 40°   | 54.9  | 55.3  | 55.7  | 55.3  | 55.7  | 56.4  | 56.7  | 57.1  | 57.5  | 57.8  | 57.8  |
| 42.5° | 48.8  | 48.8  | 48.8  | 49.2  | 49.9  | 50.2  | 51.0  | 51.3  | 51.7  | 51.7  | 51.7  |
| 45°   | 43.7  | 43.7  | 44.1  | 44.5  | 44.8  | 45.2  | 45.5  | 45.9  | 46.3  | 46.3  | 46.3  |
| 47.5° | 39.4  | 39.4  | 39.8  | 39.8  | 40.1  | 40.5  | 40.8  | 40.8  | 41.2  | 41.6  | 41.2  |
| 50°   | 35.4  | 35.4  | 35.4  | 35.8  | 35.8  | 36.1  | 36.1  | 36.5  | 36.5  | 36.5  | 36.5  |
| 52.5° | 31.4  | 31.4  | 31.4  | 31.4  | 31.8  | 31.8  | 31.8  | 32.2  | 32.2  | 32.2  | 32.2  |
| 55°   | 27.8  | 27.8  | 27.8  | 27.8  | 27.8  | 28.2  | 28.2  | 28.2  | 28.2  | 28.2  | 28.2  |
| 57.5° | 24.6  | 24.6  | 24.6  | 24.6  | 24.6  | 24.6  | 24.6  | 24.6  | 24.6  | 24.6  | 24.6  |
| 60°   | 21.3  | 21.3  | 21.3  | 21.3  | 21.3  | 21.0  | 21.3  | 21.3  | 21.3  | 21.3  | 21.3  |
| 62.5° | 18.1  | 18.1  | 18.1  | 18.1  | 18.1  | 18.1  | 18.1  | 18.4  | 18.4  | 18.4  | 18.4  |
| 65°   | 14.8  | 15.2  | 15.2  | 15.2  | 15.2  | 15.2  | 15.2  | 15.5  | 15.5  | 15.5  | 15.5  |
| 67.5° | 11.9  | 12.3  | 12.3  | 12.3  | 12.3  | 12.3  | 12.3  | 12.3  | 12.7  | 12.7  | 12.7  |
| 70°   | 9.4   | 9.4   | 9.4   | 9.4   | 9.4   | 9.4   | 9.4   | 9.4   | 9.4   | 9.4   | 9.8   |
| 72.5° | 6.5   | 6.5   | 6.5   | 6.5   | 6.5   | 6.5   | 6.5   | 6.5   | 6.9   | 6.9   | 6.9   |
| 75°   | 4.7   | 4.7   | 4.7   | 4.7   | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   | 4.3   |
| 77.5° | 3.3   | 3.3   | 3.3   | 2.9   | 2.9   | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   | 2.2   |
| 80°   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.4   | 1.4   | 1.1   | 1.1   | 1.1   | 1.1   |
| 82.5° | 1.1   | 1.1   | 1.1   | 0.7   | 0.7   | 0.7   | 0.7   | 0.4   | 0.4   | 0.4   | 0.4   |
| 85°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 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)