

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: P1293544

Luminaire Tested: P3A09R45W2N902750DE010 E3DL1WMH\_4000K

Issue Date: 1/30/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1293544  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2601-647-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/30/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A09R45W2N902750DE010 E3DL1WMH\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 4000K CCT AND, 90CRI ,  
E3DL1WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

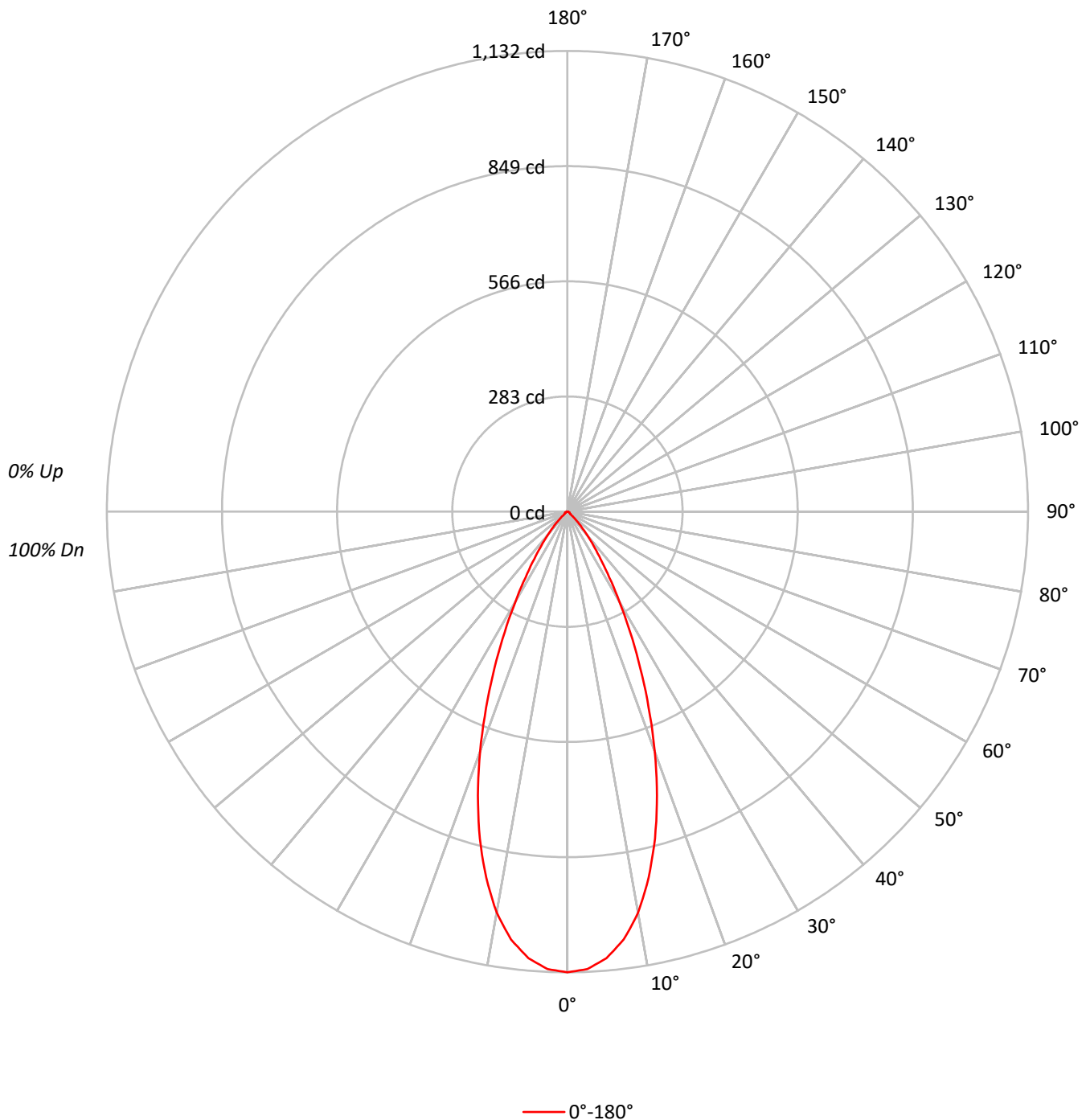
Lumens per Lamp: N/A  
Luminaire Lumens: 661.0 lumens  
Efficiency: N/A  
Efficacy: 73.4 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.69  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 94  |    |    |
| 2   | 109 | 104 | 100 | 97  | 106 | 102 | 99  | 96  | 99  | 96  | 94  | 96  | 94  | 92  | 93  | 91  | 90  | 88  |    |    |
| 3   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 94  | 90  | 87  | 91  | 88  | 86  | 89  | 86  | 84  | 83  |    |    |
| 4   | 99  | 92  | 87  | 83  | 97  | 91  | 86  | 82  | 89  | 85  | 81  | 87  | 83  | 80  | 85  | 82  | 79  | 78  |    |    |
| 5   | 94  | 87  | 81  | 77  | 93  | 86  | 81  | 77  | 84  | 80  | 76  | 82  | 79  | 76  | 81  | 78  | 75  | 74  |    |    |
| 6   | 90  | 82  | 76  | 73  | 89  | 81  | 76  | 72  | 80  | 75  | 72  | 78  | 74  | 71  | 77  | 74  | 71  | 70  |    |    |
| 7   | 86  | 78  | 72  | 68  | 85  | 77  | 72  | 68  | 76  | 71  | 68  | 75  | 71  | 67  | 74  | 70  | 67  | 66  |    |    |
| 8   | 83  | 74  | 68  | 65  | 82  | 73  | 68  | 64  | 72  | 68  | 64  | 71  | 67  | 64  | 70  | 67  | 64  | 62  |    |    |
| 9   | 79  | 70  | 65  | 61  | 78  | 70  | 65  | 61  | 69  | 64  | 61  | 68  | 64  | 61  | 67  | 63  | 61  | 59  |    |    |
| 10  | 76  | 67  | 62  | 58  | 75  | 67  | 62  | 58  | 66  | 61  | 58  | 65  | 61  | 58  | 65  | 61  | 58  | 57  |    |    |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 248226 |
| 5°  | 242416 |
| 10° | 222842 |
| 15° | 188809 |
| 20° | 146499 |
| 25° | 102393 |
| 30° | 64516  |
| 35° | 37986  |
| 40° | 21497  |
| 45° | 10451  |
| 50° | 3616   |
| 55° | 2944   |
| 60° | 2851   |
| 65° | 2750   |
| 70° | 2629   |
| 75° | 2542   |
| 80° | 2273   |
| 85° | 1510   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10451 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 101.9  | 15.4      |
| 10°-20°   | 228.4  | 34.6      |
| 20°-30°   | 193.9  | 29.3      |
| 30°-40°   | 92.5   | 14.0      |
| 40°-50°   | 27.9   | 4.2       |
| 50°-60°   | 7.1    | 1.1       |
| 60°-70°   | 5.2    | 0.8       |
| 70°-80°   | 3.1    | 0.5       |
| 80°-90°   | 0.9    | 0.1       |
| 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       |
| <hr/>     |        |           |
| 0°-30°    | 524.3  | 79.3      |
| 0°-40°    | 616.8  | 93.3      |
| 0°-60°    | 651.7  | 98.6      |
| 0°-90°    | 661.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 661.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1132 |      |
| 5°  | 1101 | 102  |
| 15° | 832  | 228  |
| 25° | 423  | 194  |
| 35° | 142  | 93   |
| 45° | 34   | 28   |
| 55° | 8    | 7    |
| 65° | 5    | 5    |
| 75° | 3    | 3    |
| 85° | 1    | 1    |
| 90° | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1132.0 |
| 2.5°  | 1124.9 |
| 5°    | 1101.3 |
| 7.5°  | 1060.5 |
| 10°   | 1000.8 |
| 12.5° | 921.6  |
| 15°   | 831.7  |
| 17.5° | 731.8  |
| 20°   | 627.8  |
| 22.5° | 522.0  |
| 25°   | 423.2  |
| 27.5° | 333.4  |
| 30°   | 254.8  |
| 32.5° | 191.5  |
| 35°   | 141.9  |
| 37.5° | 104.6  |
| 40°   | 75.1   |
| 42.5° | 52.0   |
| 45°   | 33.7   |
| 47.5° | 18.9   |
| 50°   | 10.6   |
| 52.5° | 8.3    |
| 55°   | 7.7    |
| 57.5° | 7.1    |
| 60°   | 6.5    |
| 62.5° | 5.9    |
| 65°   | 5.3    |
| 67.5° | 4.7    |
| 70°   | 4.1    |
| 72.5° | 3.5    |
| 75°   | 3.0    |
| 77.5° | 2.4    |
| 80°   | 1.8    |
| 82.5° | 1.2    |
| 85°   | 0.6    |
| 87.5° | 0.6    |
| 90°   | 0.0    |

(END OF REPORT)