

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: P1291941

Luminaire Tested: P3A09R20W2N902750DE010 E3DL1WMH\_3500K

Issue Date: 1/30/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1291941  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2601-647-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/30/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A09R20W2N902750DE010 E3DL1WMH\_3500K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 3500K CCT AND, 90CRI ,  
E3DL1WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

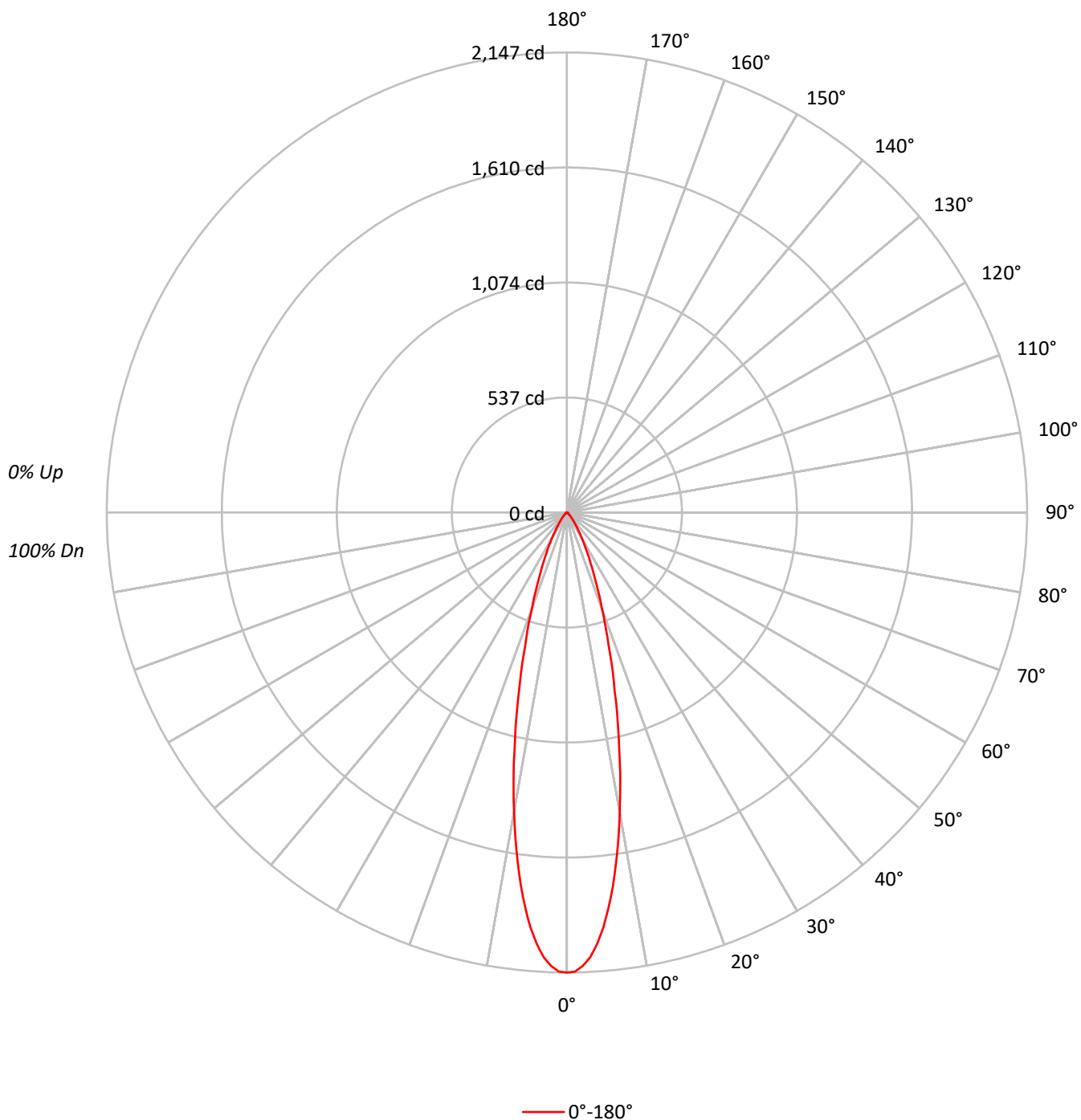
Lumens per Lamp: N/A  
Luminaire Lumens: 612.0 lumens  
Efficiency: N/A  
Efficacy: 68.0 lumens/watt  
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.46  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P1291941

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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 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 95  |    |    |
| 2   | 110 | 106 | 102 | 100 | 108 | 104 | 101 | 98  | 101 | 98  | 96  | 98  | 96  | 94  | 95  | 94  | 92  | 91  |    |    |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 97  | 93  | 91  | 94  | 92  | 89  | 92  | 90  | 88  | 87  |    |    |
| 4   | 102 | 96  | 91  | 88  | 100 | 95  | 90  | 87  | 92  | 89  | 86  | 91  | 88  | 85  | 89  | 86  | 84  | 83  |    |    |
| 5   | 98  | 91  | 87  | 83  | 97  | 90  | 86  | 83  | 89  | 85  | 82  | 87  | 84  | 81  | 86  | 83  | 81  | 79  |    |    |
| 6   | 95  | 87  | 83  | 79  | 93  | 87  | 82  | 79  | 85  | 81  | 78  | 84  | 81  | 78  | 83  | 80  | 77  | 76  |    |    |
| 7   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 76  | 82  | 78  | 75  | 81  | 78  | 75  | 80  | 77  | 75  | 73  |    |    |
| 8   | 88  | 81  | 76  | 73  | 87  | 80  | 76  | 73  | 79  | 75  | 72  | 78  | 75  | 72  | 78  | 74  | 72  | 71  |    |    |
| 9   | 85  | 78  | 73  | 70  | 85  | 77  | 73  | 70  | 77  | 73  | 70  | 76  | 72  | 69  | 75  | 72  | 69  | 68  |    |    |
| 10  | 83  | 75  | 71  | 68  | 82  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 70  | 67  | 73  | 69  | 67  | 66  |    |    |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 470861 |
| 5°  | 428020 |
| 10° | 316338 |
| 15° | 195688 |
| 20° | 111753 |
| 25° | 63802  |
| 30° | 35778  |
| 35° | 19461  |
| 40° | 10649  |
| 45° | 5861   |
| 50° | 3446   |
| 55° | 2485   |
| 60° | 2324   |
| 65° | 2127   |
| 70° | 1923   |
| 75° | 2033   |
| 80° | 1515   |
| 85° | 1510   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
Vertical Angle: 45°  
Luminance: 5861 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 168.4  | 27.5      |
| 10°-20°   | 240.4  | 39.3      |
| 20°-30°   | 125.5  | 20.5      |
| 30°-40°   | 48.5   | 7.9       |
| 40°-50°   | 15.7   | 2.6       |
| 50°-60°   | 6.2    | 1.0       |
| 60°-70°   | 4.1    | 0.7       |
| 70°-80°   | 2.5    | 0.4       |
| 80°-90°   | 0.8    | 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°    | 534.2  | 87.3      |
| 0°-40°    | 582.7  | 95.2      |
| 0°-60°    | 604.7  | 98.8      |
| 0°-90°    | 612.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 612.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2147 |      |
| 5°  | 1944 | 168  |
| 15° | 862  | 240  |
| 25° | 264  | 125  |
| 35° | 73   | 49   |
| 45° | 19   | 16   |
| 55° | 6    | 6    |
| 65° | 4    | 4    |
| 75° | 2    | 2    |
| 85° | 1    | 1    |
| 90° | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 2147.3 |
| 1°    | 2143.2 |
| 2°    | 2117.8 |
| 3°    | 2078.7 |
| 4°    | 2018.4 |
| 5°    | 1944.5 |
| 6°    | 1857.0 |
| 7°    | 1760.1 |
| 8°    | 1647.7 |
| 9°    | 1538.4 |
| 10°   | 1420.7 |
| 12.5° | 1129.2 |
| 15°   | 862.0  |
| 17.5° | 645.0  |
| 20°   | 478.9  |
| 22.5° | 354.7  |
| 25°   | 263.7  |
| 27.5° | 194.5  |
| 30°   | 141.3  |
| 32.5° | 102.3  |
| 35°   | 72.7   |
| 37.5° | 52.6   |
| 40°   | 37.2   |
| 42.5° | 26.6   |
| 45°   | 18.9   |
| 47.5° | 13.6   |
| 50°   | 10.1   |
| 52.5° | 7.7    |
| 55°   | 6.5    |
| 57.5° | 5.9    |
| 60°   | 5.3    |
| 62.5° | 4.7    |
| 65°   | 4.1    |
| 67.5° | 3.5    |
| 70°   | 3.0    |
| 72.5° | 3.0    |
| 75°   | 2.4    |
| 77.5° | 1.8    |
| 80°   | 1.2    |
| 82.5° | 1.2    |
| 85°   | 0.6    |
| 87.5° | 0.6    |
| 90°   | 0.0    |

(END OF REPORT)