

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: P1297427

Luminaire Tested: P3A13R45W2N902765DE010 E3CD1MMS\_3500K

Issue Date: 1/30/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1297427  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2601-647-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/30/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R45W2N902765DE010 E3CD1MMS\_3500K  
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 3500K CCT AND, 90CRI ,  
E3CD1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

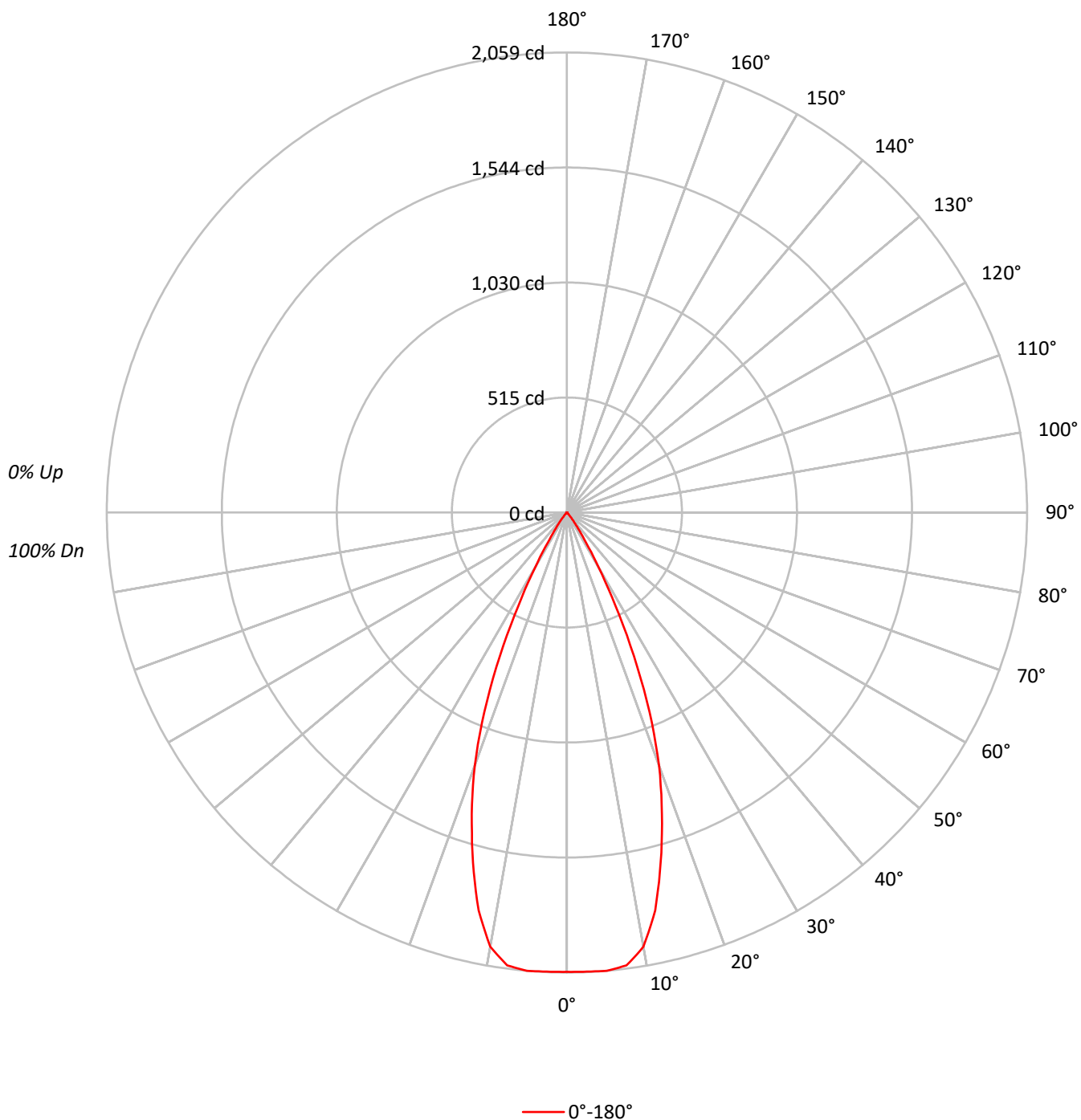
Lumens per Lamp: N/A  
Luminaire Lumens: 1040.1 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Spacing Criteria (0/90/45): 0.72 / 0.72 / 0.66  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.3  
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  | 0   |  |  |   |
| 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  | 96  | 93  | 91  | 94  | 91  | 89  | 92  | 90  | 88  | 86  |  |  |   |
| 4   | 102 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 89  | 86  | 90  | 87  | 85  | 88  | 86  | 84  | 82  |  |  |   |
| 5   | 98  | 91  | 86  | 82  | 96  | 90  | 85  | 82  | 88  | 84  | 81  | 87  | 83  | 81  | 85  | 82  | 80  | 79  |  |  |   |
| 6   | 94  | 87  | 82  | 78  | 93  | 86  | 81  | 78  | 85  | 80  | 77  | 83  | 80  | 77  | 82  | 79  | 76  | 75  |  |  |   |
| 7   | 90  | 83  | 78  | 74  | 89  | 82  | 78  | 74  | 81  | 77  | 74  | 80  | 76  | 74  | 79  | 76  | 73  | 72  |  |  |   |
| 8   | 87  | 79  | 74  | 71  | 86  | 79  | 74  | 71  | 78  | 74  | 71  | 77  | 73  | 70  | 76  | 73  | 70  | 69  |  |  |   |
| 9   | 84  | 76  | 71  | 68  | 83  | 76  | 71  | 68  | 75  | 71  | 68  | 74  | 70  | 67  | 73  | 70  | 67  | 66  |  |  |   |
| 10  | 81  | 73  | 68  | 65  | 80  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 67  | 65  | 71  | 67  | 65  | 64  |  |  |   |

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

|     | 0°     |
|-----|--------|
| 0°  | 450907 |
| 5°  | 453312 |
| 10° | 439382 |
| 15° | 368197 |
| 20° | 281448 |
| 25° | 171349 |
| 30° | 71302  |
| 35° | 22834  |
| 40° | 7099   |
| 45° | 1458   |
| 50° | 1058   |
| 55° | 1185   |
| 60° | 1009   |
| 65° | 1193   |
| 70° | 1026   |
| 75° | 1356   |
| 80° | 1010   |
| 85° | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle:  $45^\circ$

Luminance: 1458 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 194.2  | 18.7      |
| 10°-20°   | 445.8  | 42.9      |
| 20°-30°   | 321.0  | 30.9      |
| 30°-40°   | 66.8   | 6.4       |
| 40°-50°   | 6.1    | 0.6       |
| 50°-60°   | 2.5    | 0.2       |
| 60°-70°   | 2.0    | 0.2       |
| 70°-80°   | 1.4    | 0.1       |
| 80°-90°   | 0.3    | 0.0       |
| 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°    | 961.0  | 92.4      |
| 0°-40°    | 1027.7 | 98.8      |
| 0°-60°    | 1036.4 | 99.6      |
| 0°-90°    | 1040.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1040.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2056 |      |
| 5°  | 2059 | 194  |
| 15° | 1622 | 446  |
| 25° | 708  | 321  |
| 35° | 85   | 67   |
| 45° | 5    | 6    |
| 55° | 3    | 3    |
| 65° | 2    | 2    |
| 75° | 2    | 1    |
| 85° | 0    | 0    |
| 90° | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 2056.3 |
| 2.5°  | 2057.0 |
| 5°    | 2059.4 |
| 7.5°  | 2044.6 |
| 10°   | 1973.3 |
| 12.5° | 1824.3 |
| 15°   | 1621.9 |
| 17.5° | 1414.8 |
| 20°   | 1206.1 |
| 22.5° | 966.5  |
| 25°   | 708.2  |
| 27.5° | 466.9  |
| 30°   | 281.6  |
| 32.5° | 157.5  |
| 35°   | 85.3   |
| 37.5° | 48.1   |
| 40°   | 24.8   |
| 42.5° | 10.9   |
| 45°   | 4.7    |
| 47.5° | 3.1    |
| 50°   | 3.1    |
| 52.5° | 3.1    |
| 55°   | 3.1    |
| 57.5° | 2.3    |
| 60°   | 2.3    |
| 62.5° | 2.3    |
| 65°   | 2.3    |
| 67.5° | 1.6    |
| 70°   | 1.6    |
| 72.5° | 1.6    |
| 75°   | 1.6    |
| 77.5° | 0.8    |
| 80°   | 0.8    |
| 82.5° | 0.8    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

(END OF REPORT)