

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: P1295936

Luminaire Tested: P3A13R20W2N902765DE010 E3PHLD1MW\_4000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1295936  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A13R20W2N902765DE010 E3PHLD1MW\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 4000K CCT AND, 90CRI ,  
E3PHLD1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

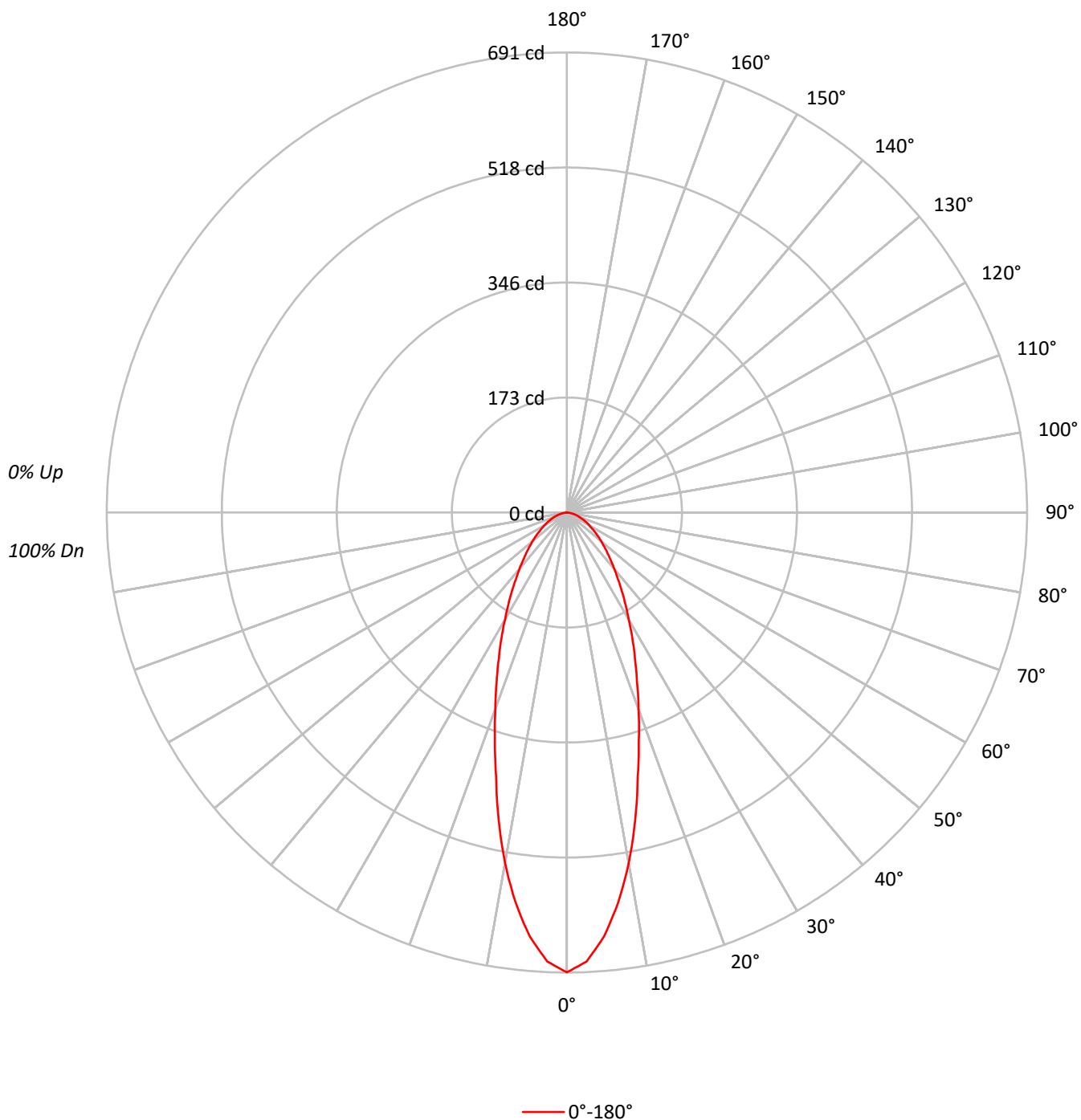
Lumens per Lamp: N/A  
Luminaire Lumens: 534.0 lumens  
Efficiency: N/A  
Efficacy: 43.4 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.68  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 97  |  | 98  | 96  | 95  |  | 95  | 93  | 92  | 90  |
| 2   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 89  | 86  |  | 90  | 87  | 84  |  | 87  | 85  | 82  | 80  |
| 3   | 98  | 90  | 83  | 78  | 95  | 88  | 82  | 78  | 85  | 81  | 77  |  | 83  | 79  | 75  |  | 80  | 77  | 74  | 72  |
| 4   | 92  | 82  | 75  | 70  | 90  | 81  | 75  | 70  | 79  | 73  | 69  |  | 77  | 72  | 68  |  | 75  | 71  | 67  | 66  |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 63  | 73  | 67  | 63  |  | 71  | 66  | 62  |  | 70  | 65  | 62  | 60  |
| 6   | 81  | 70  | 63  | 58  | 79  | 70  | 63  | 58  | 68  | 62  | 58  |  | 66  | 61  | 57  |  | 65  | 60  | 57  | 55  |
| 7   | 76  | 66  | 59  | 54  | 75  | 65  | 58  | 53  | 64  | 58  | 53  |  | 62  | 57  | 53  |  | 61  | 56  | 53  | 51  |
| 8   | 72  | 61  | 54  | 50  | 71  | 61  | 54  | 50  | 60  | 54  | 49  |  | 58  | 53  | 49  |  | 57  | 53  | 49  | 47  |
| 9   | 69  | 58  | 51  | 46  | 67  | 57  | 51  | 46  | 56  | 50  | 46  |  | 55  | 50  | 46  |  | 54  | 49  | 46  | 44  |
| 10  | 65  | 54  | 48  | 43  | 64  | 54  | 48  | 43  | 53  | 47  | 43  |  | 52  | 47  | 43  |  | 51  | 46  | 43  | 41  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 151435 |
| 5°  | 140678 |
| 10° | 119125 |
| 15° | 93258  |
| 20° | 73390  |
| 25° | 58503  |
| 30° | 47045  |
| 35° | 38360  |
| 40° | 31717  |
| 45° | 26731  |
| 50° | 22925  |
| 55° | 19689  |
| 60° | 17192  |
| 65° | 15099  |
| 70° | 12887  |
| 75° | 11353  |
| 80° | 8461   |
| 85° | 5535   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 26731 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 57.7   | 10.8      |
| 10°-20°   | 115.0  | 21.5      |
| 20°-30°   | 111.7  | 20.9      |
| 30°-40°   | 90.2   | 16.9      |
| 40°-50°   | 67.1   | 12.6      |
| 50°-60°   | 46.6   | 8.7       |
| 60°-70°   | 29.2   | 5.5       |
| 70°-80°   | 14.2   | 2.6       |
| 80°-90°   | 2.4    | 0.5       |
| 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°    | 284.4  | 53.3      |
| 0°-40°    | 374.6  | 70.2      |
| 0°-60°    | 488.3  | 91.4      |
| 0°-90°    | 534.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 534.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 691 |      |
| 5°  | 639 | 58   |
| 15° | 411 | 115  |
| 25° | 242 | 112  |
| 35° | 143 | 90   |
| 45° | 86  | 67   |
| 55° | 52  | 47   |
| 65° | 29  | 29   |
| 75° | 13  | 14   |
| 85° | 2   | 2    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |       |
|-------|-------|
| 0°    | 690.6 |
| 2.5°  | 675.0 |
| 5°    | 639.1 |
| 7.5°  | 591.0 |
| 10°   | 535.0 |
| 12.5° | 473.5 |
| 15°   | 410.8 |
| 17.5° | 359.3 |
| 20°   | 314.5 |
| 22.5° | 275.4 |
| 25°   | 241.8 |
| 27.5° | 212.7 |
| 30°   | 185.8 |
| 32.5° | 163.4 |
| 35°   | 143.3 |
| 37.5° | 125.4 |
| 40°   | 110.8 |
| 42.5° | 97.4  |
| 45°   | 86.2  |
| 47.5° | 76.1  |
| 50°   | 67.2  |
| 52.5° | 59.3  |
| 55°   | 51.5  |
| 57.5° | 44.8  |
| 60°   | 39.2  |
| 62.5° | 34.7  |
| 65°   | 29.1  |
| 67.5° | 24.6  |
| 70°   | 20.1  |
| 72.5° | 16.8  |
| 75°   | 13.4  |
| 77.5° | 10.1  |
| 80°   | 6.7   |
| 82.5° | 3.4   |
| 85°   | 2.2   |
| 87.5° | 0.0   |
| 90°   | 0.0   |

(END OF REPORT)