

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: P1295938

Luminaire Tested: P3AS13R20W2N902765DE010 E3PHLD1MW\_6500K

Issue Date: 1/29/2026

**Test Information**

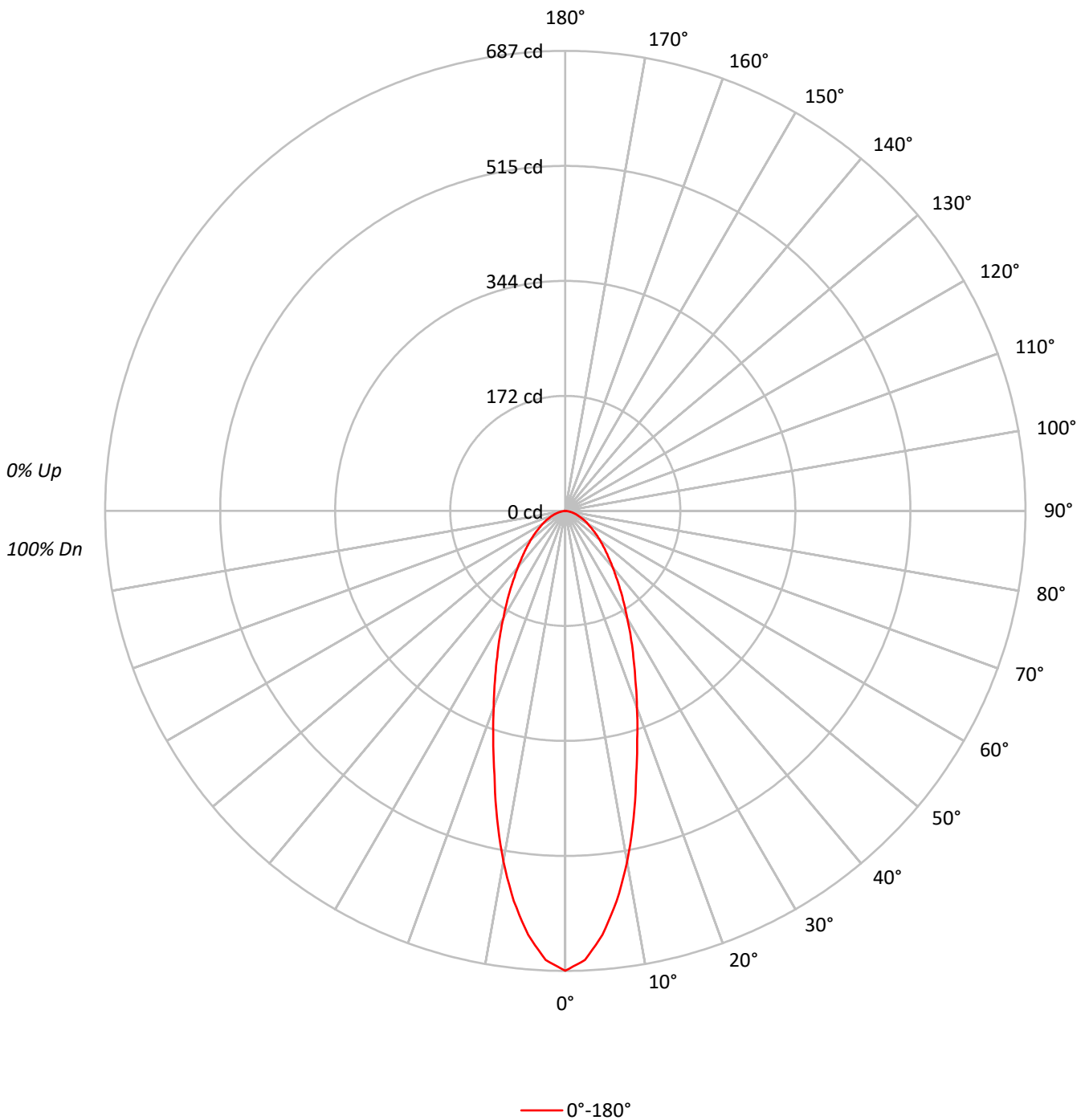
Test Method: LM-79-2019  
Report Number: P1295938  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3AS13R20W2N902765DE010 E3PHLD1MW\_6500K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 6500K CCT AND, 90CRI ,  
E3PHLD1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 531.0 lumens  
Efficiency: N/A  
Efficacy: 43.2 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°  | 150580 |
| 5°  | 139885 |
| 10° | 118457 |
| 15° | 92736  |
| 20° | 72993  |
| 25° | 58165  |
| 30° | 46792  |
| 35° | 38146  |
| 40° | 31545  |
| 45° | 26576  |
| 50° | 22788  |
| 55° | 19574  |
| 60° | 17104  |
| 65° | 14995  |
| 70° | 12823  |
| 75° | 11353  |
| 80° | 8461   |
| 85° | 5535   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 26576 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 57.4   | 10.8      |
| 10°-20°   | 114.4  | 21.5      |
| 20°-30°   | 111.0  | 20.9      |
| 30°-40°   | 89.7   | 16.9      |
| 40°-50°   | 66.7   | 12.6      |
| 50°-60°   | 46.3   | 8.7       |
| 60°-70°   | 29.0   | 5.5       |
| 70°-80°   | 14.1   | 2.7       |
| 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°    | 282.8  | 53.3      |
| 0°-40°    | 372.5  | 70.2      |
| 0°-60°    | 485.5  | 91.4      |
| 0°-90°    | 531.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 531.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 687 |      |
| 5°  | 636 | 57   |
| 15° | 408 | 114  |
| 25° | 240 | 111  |
| 35° | 142 | 90   |
| 45° | 86  | 67   |
| 55° | 51  | 46   |
| 65° | 29  | 29   |
| 75° | 13  | 14   |
| 85° | 2   | 2    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 686.7 |
| 2.5°  | 671.2 |
| 5°    | 635.5 |
| 7.5°  | 587.7 |
| 10°   | 532.0 |
| 12.5° | 470.8 |
| 15°   | 408.5 |
| 17.5° | 357.3 |
| 20°   | 312.8 |
| 22.5° | 273.8 |
| 25°   | 240.4 |
| 27.5° | 211.5 |
| 30°   | 184.8 |
| 32.5° | 162.5 |
| 35°   | 142.5 |
| 37.5° | 124.7 |
| 40°   | 110.2 |
| 42.5° | 96.8  |
| 45°   | 85.7  |
| 47.5° | 75.7  |
| 50°   | 66.8  |
| 52.5° | 59.0  |
| 55°   | 51.2  |
| 57.5° | 44.5  |
| 60°   | 39.0  |
| 62.5° | 34.5  |
| 65°   | 28.9  |
| 67.5° | 24.5  |
| 70°   | 20.0  |
| 72.5° | 16.7  |
| 75°   | 13.4  |
| 77.5° | 10.0  |
| 80°   | 6.7   |
| 82.5° | 3.3   |
| 85°   | 2.2   |
| 87.5° | 0.0   |
| 90°   | 0.0   |

(END OF REPORT)