

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: P1299579

Luminaire Tested: P3A17R20W2N902750DE010 E3PHLP1MW\_2700K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1299579  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A17R20W2N902750DE010 E3PHLP1MW\_2700K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 2700K CCT AND, 90CRI ,  
E3PHLP1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

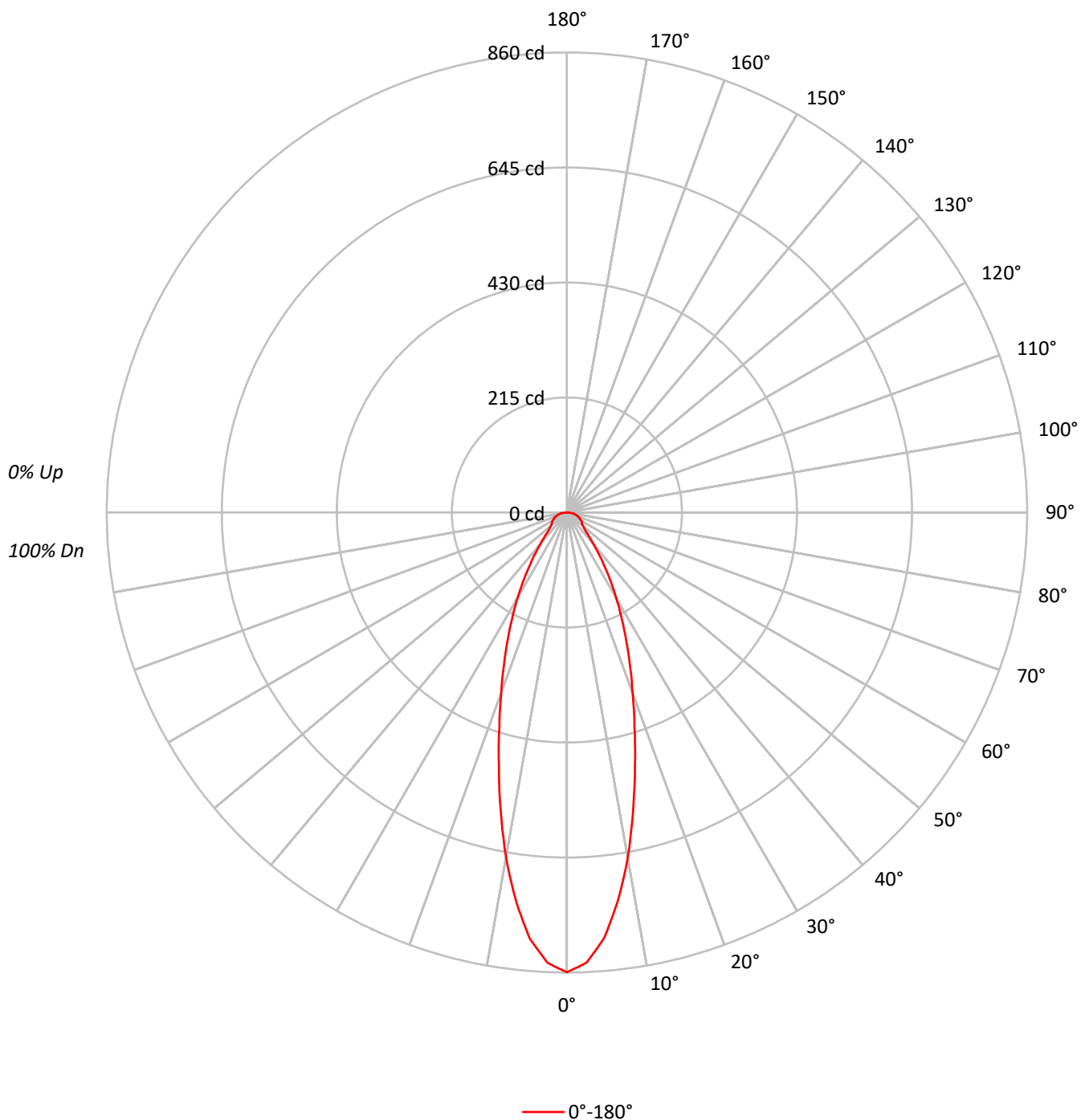
Lumens per Lamp: N/A  
Luminaire Lumens: 530.0 lumens  
Efficiency: N/A  
Efficacy: 27.3 lumens/watt  
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.63  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 19.4  
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  | 50  | 30 | 10 |
| 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   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  | 91  | 88  | 85  | 88  | 85  | 83  | 81  |    |    |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 73  | 81  | 76  | 72  | 79  | 74  | 71  | 77  | 73  | 70  | 68  |    |    |
| 5   | 88  | 79  | 72  | 67  | 86  | 78  | 71  | 67  | 76  | 70  | 66  | 74  | 69  | 66  | 72  | 68  | 65  | 63  |    |    |
| 6   | 84  | 74  | 67  | 62  | 82  | 73  | 66  | 62  | 71  | 66  | 61  | 70  | 65  | 61  | 68  | 64  | 61  | 59  |    |    |
| 7   | 79  | 69  | 63  | 58  | 78  | 68  | 62  | 58  | 67  | 62  | 57  | 66  | 61  | 57  | 65  | 60  | 57  | 55  |    |    |
| 8   | 76  | 65  | 59  | 54  | 74  | 65  | 58  | 54  | 64  | 58  | 54  | 62  | 57  | 54  | 61  | 57  | 53  | 52  |    |    |
| 9   | 72  | 62  | 55  | 51  | 71  | 61  | 55  | 51  | 60  | 55  | 51  | 59  | 54  | 51  | 58  | 54  | 50  | 49  |    |    |
| 10  | 69  | 59  | 52  | 48  | 68  | 58  | 52  | 48  | 57  | 52  | 48  | 57  | 52  | 48  | 56  | 51  | 48  | 46  |    |    |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 188472 |
| 5°  | 175808 |
| 10° | 145889 |
| 15° | 111556 |
| 20° | 83727  |
| 25° | 63028  |
| 30° | 46615  |
| 35° | 32578  |
| 40° | 22328  |
| 45° | 15474  |
| 50° | 13304  |
| 55° | 13113  |
| 60° | 13683  |
| 65° | 13750  |
| 70° | 13977  |
| 75° | 14572  |
| 80° | 15785  |
| 85° | 15599  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 82.5°

Luminance: 18312 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 71.6   | 13.5      |
| 10°-20°   | 136.6  | 25.8      |
| 20°-30°   | 120.2  | 22.7      |
| 30°-40°   | 77.6   | 14.6      |
| 40°-50°   | 41.1   | 7.8       |
| 50°-60°   | 30.9   | 5.8       |
| 60°-70°   | 26.3   | 5.0       |
| 70°-80°   | 18.5   | 3.5       |
| 80°-90°   | 7.2    | 1.4       |
| 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°    | 328.4  | 62.0      |
| 0°-40°    | 406.0  | 76.6      |
| 0°-60°    | 478.0  | 90.2      |
| 0°-90°    | 530.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 530.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 860 |      |
| 5°  | 799 | 72   |
| 15° | 491 | 137  |
| 25° | 260 | 120  |
| 35° | 122 | 78   |
| 45° | 50  | 41   |
| 55° | 34  | 31   |
| 65° | 26  | 26   |
| 75° | 17  | 19   |
| 85° | 6   | 7    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |       |
|-------|-------|
| 0°    | 859.5 |
| 2.5°  | 842.3 |
| 5°    | 798.7 |
| 7.5°  | 731.6 |
| 10°   | 655.2 |
| 12.5° | 570.9 |
| 15°   | 491.4 |
| 17.5° | 419.6 |
| 20°   | 358.8 |
| 22.5° | 307.3 |
| 25°   | 260.5 |
| 27.5° | 219.9 |
| 30°   | 184.1 |
| 32.5° | 151.3 |
| 35°   | 121.7 |
| 37.5° | 98.3  |
| 40°   | 78.0  |
| 42.5° | 62.4  |
| 45°   | 49.9  |
| 47.5° | 43.7  |
| 50°   | 39.0  |
| 52.5° | 35.9  |
| 55°   | 34.3  |
| 57.5° | 32.8  |
| 60°   | 31.2  |
| 62.5° | 28.1  |
| 65°   | 26.5  |
| 67.5° | 25.0  |
| 70°   | 21.8  |
| 72.5° | 20.3  |
| 75°   | 17.2  |
| 77.5° | 15.6  |
| 80°   | 12.5  |
| 82.5° | 10.9  |
| 85°   | 6.2   |
| 87.5° | 3.1   |
| 90°   | 0.0   |

(END OF REPORT)