

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: P1294158

Luminaire Tested: P3A09R55W2N902750DE010 E3DL1WMH\_4000K

Issue Date: 1/30/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1294158  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2601-647-35)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/30/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A09R55W2N902750DE010 E3DL1WMH\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R55 optic, 4000K CCT AND, 90CRI ,  
E3DL1WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

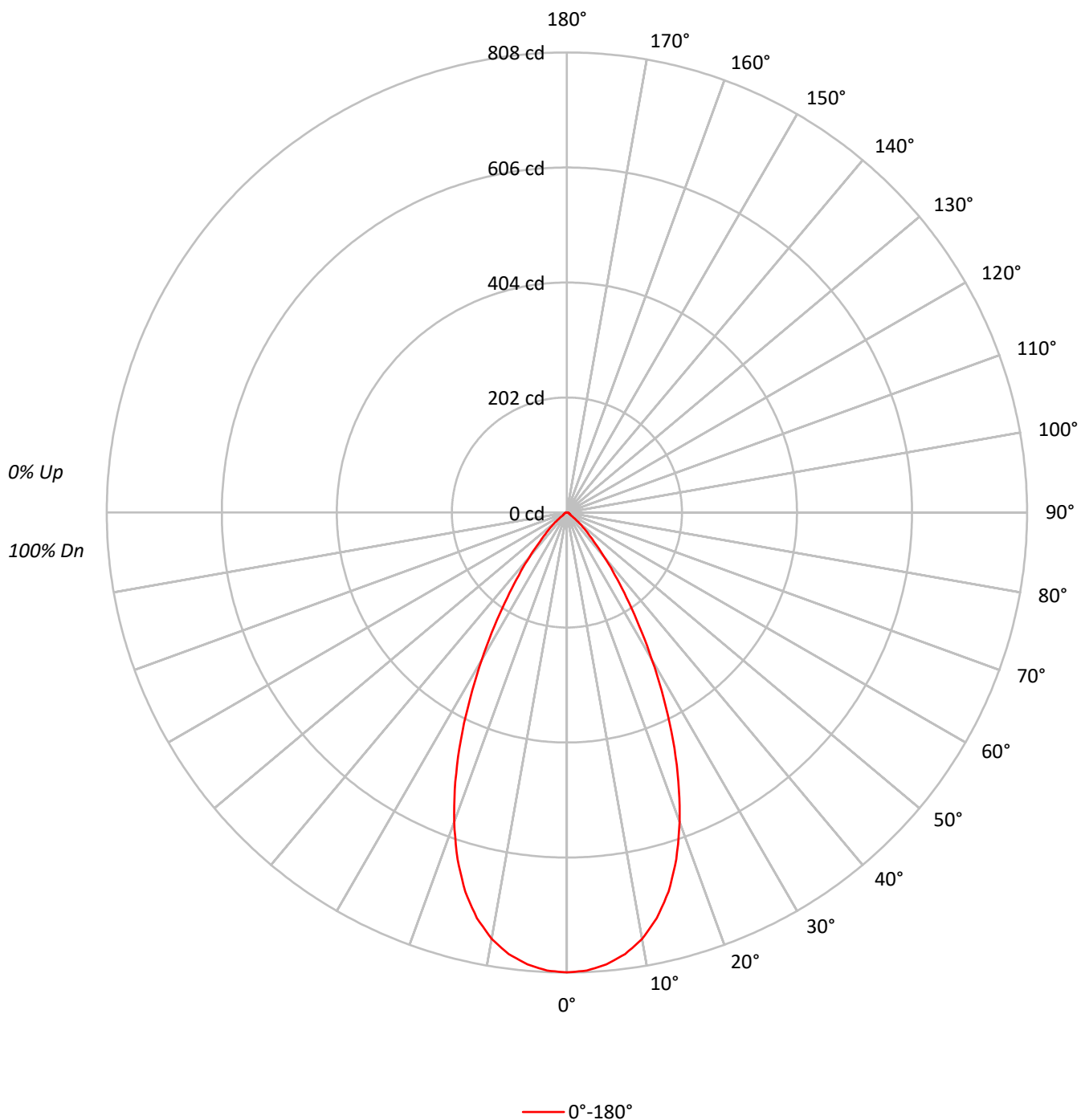
Lumens per Lamp: N/A  
Luminaire Lumens: 645.0 lumens  
Efficiency: N/A  
Efficacy: 71.7 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.81  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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: P1294158

CATALOG NUMBER: P3A09R55W2N902750DE010 E3DL1WMH\_4000K

### Luminous Intensity Polar Plot



TEST NUMBER: P1294158

CATALOG NUMBER: P3A09R55W2N902750DE010 E3DL1WMH\_4000K

**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   | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 103 | 101 |  | 101 | 99  | 98  |  | 97  | 96  | 95  | 93  |
| 2   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 94  | 98  | 95  | 92  |  | 95  | 92  | 90  |  | 92  | 90  | 88  | 87  |
| 3   | 102 | 96  | 91  | 87  | 100 | 94  | 90  | 86  | 92  | 88  | 85  |  | 89  | 86  | 83  |  | 87  | 85  | 82  | 81  |
| 4   | 97  | 90  | 84  | 80  | 95  | 89  | 83  | 79  | 86  | 82  | 78  |  | 84  | 81  | 78  |  | 82  | 79  | 77  | 75  |
| 5   | 92  | 84  | 78  | 74  | 91  | 83  | 78  | 74  | 81  | 77  | 73  |  | 80  | 76  | 72  |  | 78  | 75  | 72  | 70  |
| 6   | 88  | 79  | 73  | 69  | 86  | 78  | 73  | 68  | 77  | 72  | 68  |  | 75  | 71  | 68  |  | 74  | 70  | 67  | 66  |
| 7   | 84  | 74  | 68  | 64  | 82  | 74  | 68  | 64  | 72  | 67  | 64  |  | 71  | 67  | 63  |  | 70  | 66  | 63  | 62  |
| 8   | 80  | 70  | 64  | 60  | 78  | 70  | 64  | 60  | 69  | 63  | 60  |  | 67  | 63  | 60  |  | 67  | 62  | 59  | 58  |
| 9   | 76  | 66  | 61  | 57  | 75  | 66  | 60  | 56  | 65  | 60  | 56  |  | 64  | 59  | 56  |  | 63  | 59  | 56  | 55  |
| 10  | 73  | 63  | 57  | 53  | 72  | 62  | 57  | 53  | 62  | 57  | 53  |  | 61  | 56  | 53  |  | 60  | 56  | 53  | 52  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 177113 |
| 5°  | 175324 |
| 10° | 169313 |
| 15° | 156505 |
| 20° | 135042 |
| 25° | 106651 |
| 30° | 75657  |
| 35° | 48774  |
| 40° | 29312  |
| 45° | 16529  |
| 50° | 8870   |
| 55° | 3173   |
| 60° | 2851   |
| 65° | 2750   |
| 70° | 2629   |
| 75° | 2542   |
| 80° | 2273   |
| 85° | 1510   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16529 cd/sqm

TEST NUMBER: P1294158

CATALOG NUMBER: P3A09R55W2N902750DE010 E3DL1WMH\_4000K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 74.9   | 11.6      |
| 10°-20°   | 190.6  | 29.6      |
| 20°-30°   | 199.8  | 31.0      |
| 30°-40°   | 116.5  | 18.1      |
| 40°-50°   | 43.6   | 6.8       |
| 50°-60°   | 10.3   | 1.6       |
| 60°-70°   | 5.2    | 0.8       |
| 70°-80°   | 3.2    | 0.5       |
| 80°-90°   | 0.9    | 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°    | 465.3  | 72.1      |
| 0°-40°    | 581.8  | 90.2      |
| 0°-60°    | 635.7  | 98.6      |
| 0°-90°    | 645.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 645.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 808 |      |
| 5°  | 796 | 75   |
| 15° | 689 | 191  |
| 25° | 441 | 200  |
| 35° | 182 | 117  |
| 45° | 53  | 44   |
| 55° | 8   | 10   |
| 65° | 5   | 5    |
| 75° | 3   | 3    |
| 85° | 1   | 1    |
| 90° | 0   |      |

TEST NUMBER: P1294158

CATALOG NUMBER: P3A09R55W2N902750DE010 E3DL1WMH\_4000K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 807.7 |
| 2.5°  | 805.3 |
| 5°    | 796.5 |
| 7.5°  | 782.3 |
| 10°   | 760.4 |
| 12.5° | 729.6 |
| 15°   | 689.4 |
| 17.5° | 638.5 |
| 20°   | 578.7 |
| 22.5° | 511.8 |
| 25°   | 440.8 |
| 27.5° | 368.0 |
| 30°   | 298.8 |
| 32.5° | 236.1 |
| 35°   | 182.2 |
| 37.5° | 138.5 |
| 40°   | 102.4 |
| 42.5° | 73.4  |
| 45°   | 53.3  |
| 47.5° | 38.5  |
| 50°   | 26.0  |
| 52.5° | 14.8  |
| 55°   | 8.3   |
| 57.5° | 7.1   |
| 60°   | 6.5   |
| 62.5° | 5.9   |
| 65°   | 5.3   |
| 67.5° | 4.7   |
| 70°   | 4.1   |
| 72.5° | 3.6   |
| 75°   | 3.0   |
| 77.5° | 2.4   |
| 80°   | 1.8   |
| 82.5° | 1.2   |
| 85°   | 0.6   |
| 87.5° | 0.6   |
| 90°   | 0.0   |

(END OF REPORT)