

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: P1291986

Luminaire Tested: P3AS09R20W2N902750DE010 E3PHLD1MW_3500K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1291986
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: P3AS09R20W2N902750DE010 E3PHLD1MW_3500K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 3500K CCT AND, 90CRI ,
E3PHLD1MW TRIM
Light Source: -
Ballast/Driver: -

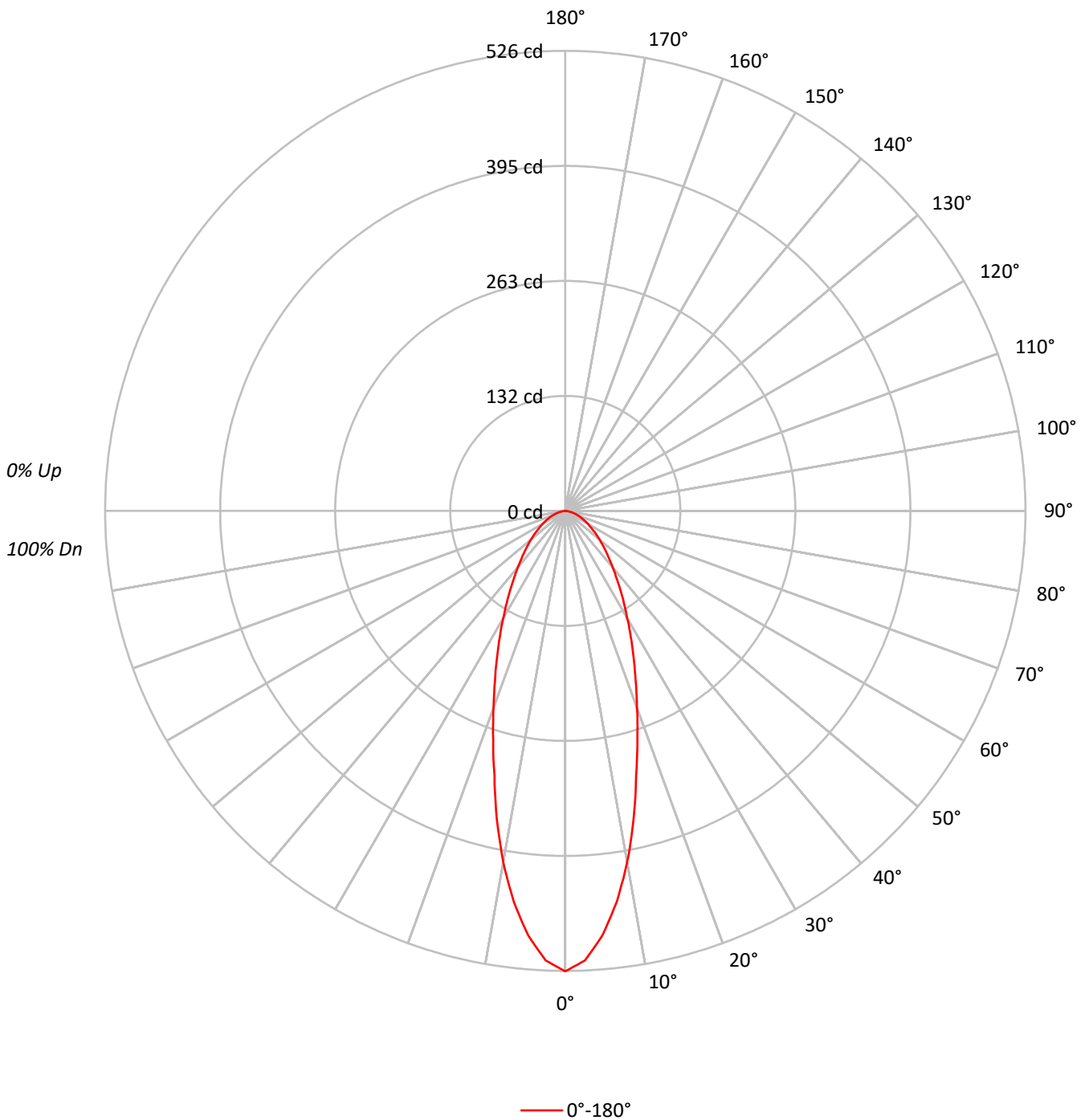
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 407.0 lumens
Efficiency: N/A
Efficacy: 45.2 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): 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

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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 | 63 | 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° | 115429 |
| 5° | 107220 |
| 10° | 90802 |
| 15° | 71079 |
| 20° | 55935 |
| 25° | 44591 |
| 30° | 35854 |
| 35° | 29232 |
| 40° | 24188 |
| 45° | 20374 |
| 50° | 17466 |
| 55° | 14986 |
| 60° | 13113 |
| 65° | 11519 |
| 70° | 9873 |
| 75° | 8642 |
| 80° | 6440 |
| 85° | 4277 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20374 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.0 | 10.8 |
| 10°-20° | 87.7 | 21.5 |
| 20°-30° | 85.1 | 20.9 |
| 30°-40° | 68.8 | 16.9 |
| 40°-50° | 51.1 | 12.6 |
| 50°-60° | 35.5 | 8.7 |
| 60°-70° | 22.3 | 5.5 |
| 70°-80° | 10.8 | 2.7 |
| 80°-90° | 1.9 | 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° | 216.8 | 53.3 |
| 0°-40° | 285.5 | 70.2 |
| 0°-60° | 372.1 | 91.4 |
| 0°-90° | 407.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 407.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 526 | |
| 5° | 487 | 44 |
| 15° | 313 | 88 |
| 25° | 184 | 85 |
| 35° | 109 | 69 |
| 45° | 66 | 51 |
| 55° | 39 | 35 |
| 65° | 22 | 22 |
| 75° | 10 | 11 |
| 85° | 2 | 2 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 526.4 |
| 2.5° | 514.4 |
| 5° | 487.1 |
| 7.5° | 450.5 |
| 10° | 407.8 |
| 12.5° | 360.9 |
| 15° | 313.1 |
| 17.5° | 273.9 |
| 20° | 239.7 |
| 22.5° | 209.9 |
| 25° | 184.3 |
| 27.5° | 162.1 |
| 30° | 141.6 |
| 32.5° | 124.6 |
| 35° | 109.2 |
| 37.5° | 95.6 |
| 40° | 84.5 |
| 42.5° | 74.2 |
| 45° | 65.7 |
| 47.5° | 58.0 |
| 50° | 51.2 |
| 52.5° | 45.2 |
| 55° | 39.2 |
| 57.5° | 34.1 |
| 60° | 29.9 |
| 62.5° | 26.4 |
| 65° | 22.2 |
| 67.5° | 18.8 |
| 70° | 15.4 |
| 72.5° | 12.8 |
| 75° | 10.2 |
| 77.5° | 7.7 |
| 80° | 5.1 |
| 82.5° | 2.6 |
| 85° | 1.7 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)