

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: P1310289

Luminaire Tested: P3SQAS13R459040DE010 E3SQCD1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-44)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R459040DE010 E3SQCD1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 90CRI , E3SQCD1MW TRIM
Light Source: -
Ballast/Driver: -

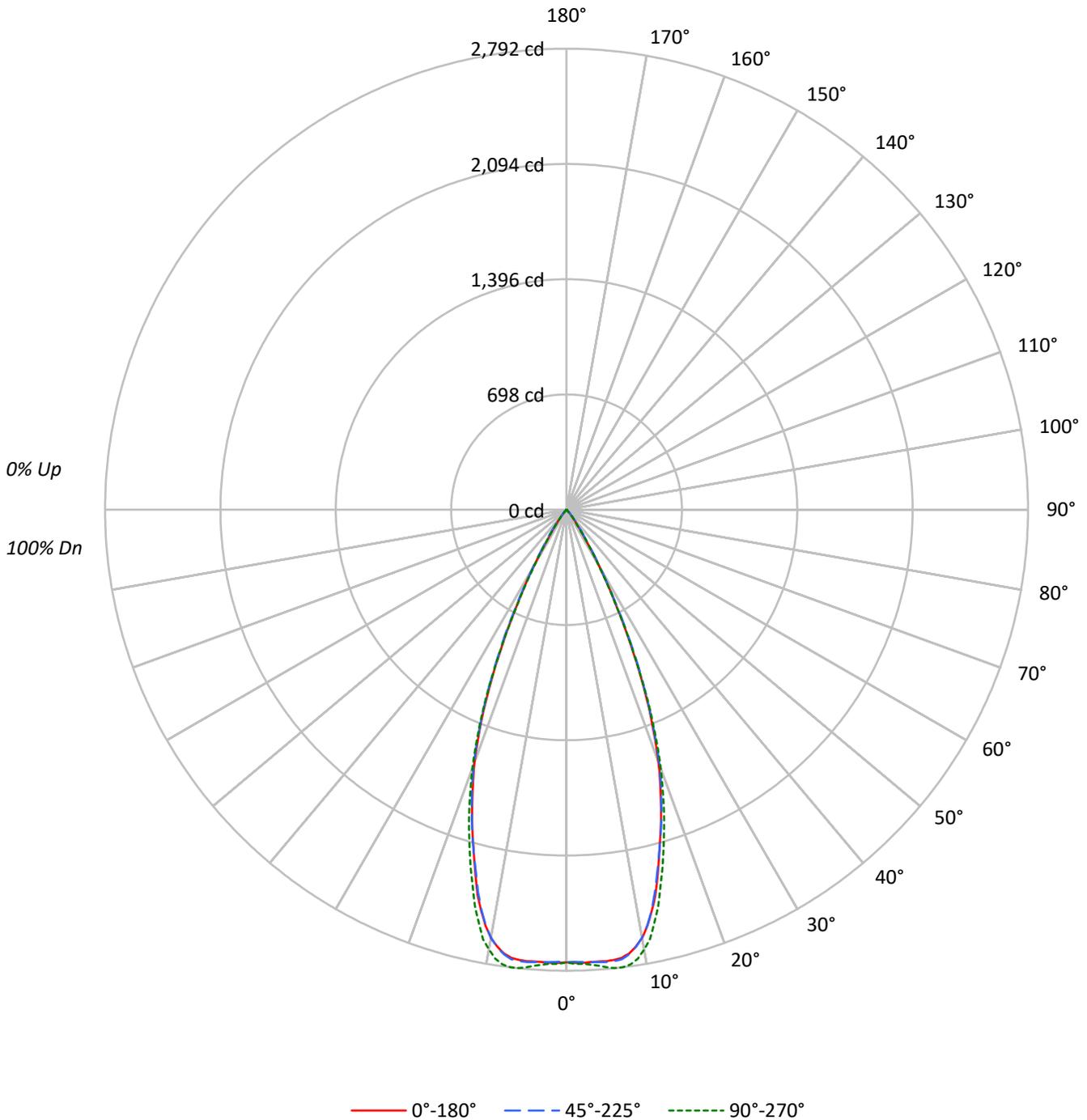
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1418.9 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 0.72 / 0.73 / 0.67
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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 | 102 | 102 | 100 |
| 1 | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 97 | 97 | 95 |
| 2 | 110 | 106 | 102 | 99 | 108 | 104 | 101 | 98 | 101 | 98 | 96 | 98 | 96 | 94 | 95 | 94 | 92 | 92 | 92 | 91 |
| 3 | 106 | 100 | 96 | 93 | 104 | 99 | 95 | 92 | 96 | 93 | 91 | 94 | 91 | 89 | 92 | 90 | 88 | 88 | 88 | 86 |
| 4 | 101 | 95 | 91 | 87 | 100 | 94 | 90 | 87 | 92 | 88 | 86 | 90 | 87 | 85 | 88 | 86 | 84 | 84 | 84 | 82 |
| 5 | 98 | 91 | 86 | 82 | 96 | 90 | 85 | 82 | 88 | 84 | 81 | 87 | 83 | 81 | 85 | 82 | 80 | 80 | 80 | 79 |
| 6 | 94 | 86 | 82 | 78 | 93 | 86 | 81 | 78 | 84 | 80 | 77 | 83 | 79 | 77 | 82 | 79 | 76 | 76 | 76 | 75 |
| 7 | 90 | 83 | 78 | 74 | 89 | 82 | 77 | 74 | 81 | 77 | 74 | 80 | 76 | 73 | 79 | 75 | 73 | 73 | 73 | 72 |
| 8 | 87 | 79 | 74 | 71 | 86 | 79 | 74 | 71 | 78 | 73 | 70 | 77 | 73 | 70 | 76 | 72 | 70 | 70 | 70 | 69 |
| 9 | 84 | 76 | 71 | 68 | 83 | 75 | 71 | 68 | 75 | 70 | 67 | 74 | 70 | 67 | 73 | 70 | 67 | 67 | 67 | 66 |
| 10 | 81 | 73 | 68 | 65 | 80 | 72 | 68 | 65 | 72 | 67 | 65 | 71 | 67 | 64 | 70 | 67 | 64 | 64 | 64 | 63 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 472183 | 472183 | 472183 |
| 5° | 474522 | 475439 | 480867 |
| 10° | 460440 | 460073 | 472874 |
| 15° | 385890 | 385694 | 399869 |
| 20° | 298318 | 301378 | 305594 |
| 25° | 182882 | 186644 | 183281 |
| 30° | 78433 | 81953 | 75927 |
| 35° | 24641 | 29687 | 23968 |
| 40° | 8476 | 10814 | 8228 |
| 45° | 1534 | 4579 | 1267 |
| 50° | 831 | 1688 | 831 |
| 55° | 931 | 931 | 931 |
| 60° | 723 | 723 | 723 |
| 65° | 856 | 856 | 856 |
| 70° | 504 | 504 | 504 |
| 75° | 665 | 665 | 665 |
| 80° | 992 | 992 | 992 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 4579 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 260.6 | 18.4 |
| 10°-20° | 602.1 | 42.4 |
| 20°-30° | 440.9 | 31.1 |
| 30°-40° | 97.4 | 6.9 |
| 40°-50° | 11.9 | 0.8 |
| 50°-60° | 2.8 | 0.2 |
| 60°-70° | 2.0 | 0.1 |
| 70°-80° | 1.1 | 0.1 |
| 80°-90° | 0.1 | 0.0 |
| 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° | 1303.6 | 91.9 |
| 0°-40° | 1400.9 | 98.7 |
| 0°-60° | 1415.7 | 99.8 |
| 0°-90° | 1418.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1418.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2742 | 2742 | 2742 | 2742 | 2742 | |
| 5° | 2745 | 2743 | 2750 | 2770 | 2782 | 259 |
| 15° | 2164 | 2153 | 2163 | 2216 | 2243 | 597 |
| 25° | 962 | 961 | 982 | 975 | 964 | 436 |
| 35° | 117 | 123 | 141 | 123 | 114 | 92 |
| 45° | 6 | 10 | 19 | 10 | 5 | 8 |
| 55° | 3 | 3 | 3 | 3 | 3 | 3 |
| 65° | 2 | 2 | 2 | 2 | 2 | 2 |
| 75° | 1 | 1 | 1 | 1 | 1 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P1310289

CATALOG NUMBER: P3SQAS13R459040DE010 E3SQCD1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2741.7 | 2741.7 | 2741.7 | 2741.7 | 2741.7 |
| 1° | 2743.8 | 2739.6 | 2738.6 | 2745.9 | 2751.1 |
| 2° | 2745.9 | 2740.7 | 2741.7 | 2749.0 | 2752.2 |
| 3° | 2743.8 | 2738.6 | 2743.8 | 2754.3 | 2758.4 |
| 4° | 2742.7 | 2740.7 | 2745.9 | 2760.5 | 2767.9 |
| 5° | 2744.8 | 2742.7 | 2750.1 | 2769.9 | 2781.5 |
| 6° | 2741.7 | 2738.6 | 2749.0 | 2774.1 | 2790.9 |
| 7° | 2734.4 | 2731.2 | 2742.7 | 2773.1 | 2791.9 |
| 8° | 2714.5 | 2708.2 | 2719.7 | 2757.4 | 2780.4 |
| 9° | 2678.9 | 2670.6 | 2682.1 | 2726.0 | 2753.2 |
| 10° | 2632.9 | 2623.5 | 2630.8 | 2673.7 | 2704.0 |
| 11° | 2567.0 | 2554.5 | 2562.8 | 2608.9 | 2648.6 |
| 12° | 2483.3 | 2465.5 | 2476.0 | 2528.3 | 2556.6 |
| 13° | 2392.3 | 2375.6 | 2377.7 | 2424.7 | 2464.5 |
| 14° | 2279.3 | 2257.4 | 2266.8 | 2316.0 | 2347.3 |
| 15° | 2164.3 | 2152.8 | 2163.2 | 2215.5 | 2242.7 |
| 17.5° | 1900.7 | 1899.6 | 1909.0 | 1947.7 | 1962.4 |
| 20° | 1627.7 | 1630.8 | 1644.4 | 1665.3 | 1667.4 |
| 22.5° | 1304.4 | 1305.5 | 1320.1 | 1334.8 | 1331.6 |
| 25° | 962.4 | 961.3 | 982.2 | 974.9 | 964.5 |
| 27.5° | 638.1 | 642.3 | 661.1 | 647.5 | 637.0 |
| 30° | 394.4 | 402.7 | 412.1 | 395.4 | 381.8 |
| 32.5° | 213.4 | 227.0 | 240.6 | 225.9 | 212.3 |
| 35° | 117.2 | 123.4 | 141.2 | 123.4 | 114.0 |
| 37.5° | 68.0 | 71.1 | 82.6 | 71.1 | 64.9 |
| 40° | 37.7 | 42.9 | 48.1 | 42.9 | 36.6 |
| 42.5° | 15.7 | 24.1 | 29.3 | 24.1 | 15.7 |
| 45° | 6.3 | 10.5 | 18.8 | 10.5 | 5.2 |
| 47.5° | 3.1 | 4.2 | 11.5 | 4.2 | 3.1 |
| 50° | 3.1 | 3.1 | 6.3 | 3.1 | 3.1 |
| 52.5° | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| 55° | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| 57.5° | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| 60° | 2.1 | 2.1 | 2.1 | 3.1 | 2.1 |
| 62.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 65° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 67.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 70° | 1.0 | 1.0 | 1.0 | 2.1 | 1.0 |
| 72.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 75° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 77.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 80° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-----|-----|-------|-----|-------|-----|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)