

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: P1307393

Luminaire Tested: P3SQAS24R509027D010 E3SQCD1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307393  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-39)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS24R509027D010 E3SQCD1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , E3SQCD1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

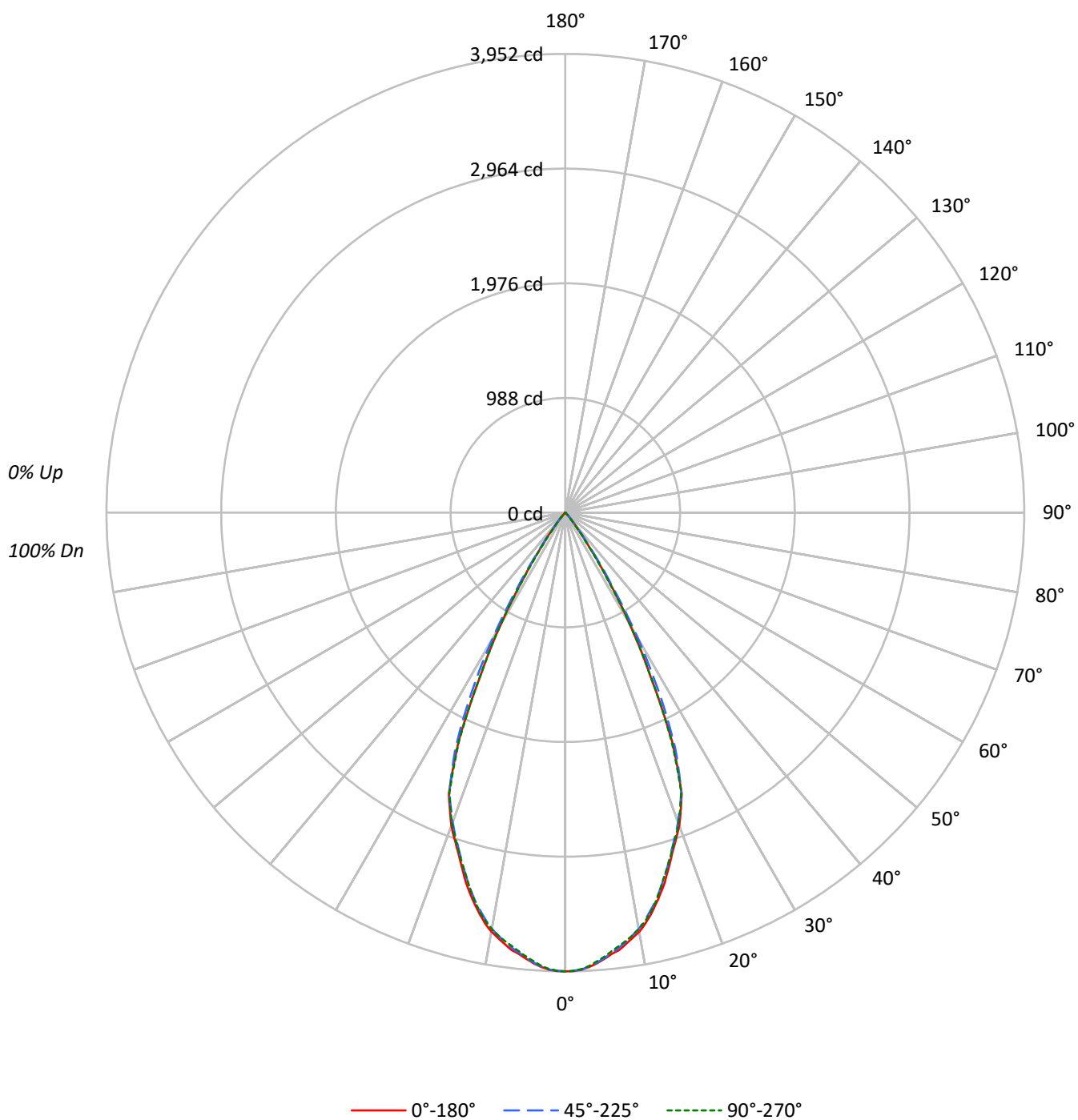
Lumens per Lamp: N/A  
Luminaire Lumens: 2546.9 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.78  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 |  | 102 | 100 | 99  |  | 98  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 97  | 95  |  | 97  | 95  | 93  |  | 94  |
| 3   | 105 | 99  | 94  | 91  | 103 | 98  | 93  | 90  | 95  | 92  | 89  |  | 93  | 90  | 87  |  | 90  |
| 4   | 100 | 93  | 89  | 85  | 98  | 92  | 88  | 84  | 90  | 86  | 83  |  | 88  | 85  | 82  |  | 87  |
| 5   | 96  | 88  | 83  | 79  | 94  | 88  | 83  | 79  | 86  | 82  | 78  |  | 84  | 81  | 78  |  | 83  |
| 6   | 92  | 84  | 79  | 75  | 90  | 83  | 78  | 75  | 82  | 77  | 74  |  | 80  | 77  | 74  |  | 79  |
| 7   | 88  | 80  | 74  | 71  | 87  | 79  | 74  | 70  | 78  | 73  | 70  |  | 77  | 73  | 70  |  | 76  |
| 8   | 84  | 76  | 71  | 67  | 83  | 75  | 70  | 67  | 74  | 70  | 67  |  | 73  | 69  | 66  |  | 72  |
| 9   | 81  | 72  | 67  | 64  | 80  | 72  | 67  | 63  | 71  | 66  | 63  |  | 70  | 66  | 63  |  | 69  |
| 10  | 78  | 69  | 64  | 60  | 77  | 69  | 64  | 60  | 68  | 63  | 60  |  | 67  | 63  | 60  |  | 66  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 680658 | 680658 | 680658 |
| 5°  | 667319 | 666074 | 664207 |
| 10° | 641213 | 636789 | 637103 |
| 15° | 588633 | 583141 | 582500 |
| 20° | 525872 | 520228 | 522885 |
| 25° | 413308 | 425337 | 409869 |
| 30° | 221119 | 247727 | 221835 |
| 35° | 72219  | 84392  | 68035  |
| 40° | 17896  | 22347  | 17064  |
| 45° | 2192   | 7916   | 2192   |
| 50° | 1447   | 2411   | 1447   |
| 55° | 1621   | 1621   | 1621   |
| 60° | 1240   | 1240   | 1240   |
| 65° | 1467   | 1467   | 1467   |
| 70° | 906    | 906    | 906    |
| 75° | 1198   | 1198   | 1198   |
| 80° | 1785   | 1785   | 1785   |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 7916 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 361.4  | 14.2      |
| 10°-20°   | 914.0  | 35.9      |
| 20°-30°   | 961.3  | 37.7      |
| 30°-40°   | 277.0  | 10.9      |
| 40°-50°   | 22.5   | 0.9       |
| 50°-60°   | 4.8    | 0.2       |
| 60°-70°   | 3.5    | 0.1       |
| 70°-80°   | 1.9    | 0.1       |
| 80°-90°   | 0.5    | 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°    | 2236.7 | 87.8      |
| 0°-40°    | 2513.8 | 98.7      |
| 0°-60°    | 2541.1 | 99.8      |
| 0°-90°    | 2546.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2546.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3952 | 3952  | 3952 | 3952  | 3952 |      |
| 5°  | 3860 | 3858  | 3853 | 3856  | 3842 | 362  |
| 15° | 3301 | 3280  | 3271 | 3271  | 3267 | 919  |
| 25° | 2175 | 2229  | 2238 | 2213  | 2157 | 943  |
| 35° | 344  | 356   | 401  | 344   | 324  | 266  |
| 45° | 9    | 18    | 32   | 18    | 9    | 17   |
| 55° | 5    | 5     | 5    | 5     | 5    | 5    |
| 65° | 4    | 4     | 4    | 4     | 4    | 3    |
| 75° | 2    | 2     | 2    | 2     | 2    | 2    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3952.2 | 3952.2 | 3952.2 | 3952.2 | 3952.2 |
| 1°    | 3950.4 | 3954.1 | 3946.8 | 3959.5 | 3948.6 |
| 2°    | 3941.4 | 3943.2 | 3939.6 | 3948.6 | 3934.2 |
| 3°    | 3919.7 | 3923.3 | 3916.1 | 3923.3 | 3910.7 |
| 4°    | 3894.4 | 3894.4 | 3887.2 | 3892.6 | 3876.3 |
| 5°    | 3860.0 | 3858.2 | 3852.8 | 3856.4 | 3842.0 |
| 6°    | 3823.9 | 3822.1 | 3813.0 | 3813.0 | 3802.2 |
| 7°    | 3796.8 | 3784.1 | 3776.9 | 3775.1 | 3764.2 |
| 8°    | 3753.4 | 3749.8 | 3735.3 | 3735.3 | 3728.1 |
| 9°    | 3710.0 | 3706.4 | 3690.1 | 3693.7 | 3688.3 |
| 10°   | 3666.6 | 3653.9 | 3641.3 | 3643.1 | 3643.1 |
| 11°   | 3608.7 | 3597.9 | 3579.8 | 3587.0 | 3590.6 |
| 12°   | 3540.0 | 3527.4 | 3511.1 | 3525.6 | 3523.8 |
| 13°   | 3464.1 | 3453.2 | 3440.6 | 3451.4 | 3447.8 |
| 14°   | 3384.5 | 3368.3 | 3357.4 | 3364.7 | 3361.0 |
| 15°   | 3301.4 | 3279.7 | 3270.6 | 3270.6 | 3267.0 |
| 17.5° | 3068.1 | 3055.5 | 3046.4 | 3041.0 | 3053.7 |
| 20°   | 2869.3 | 2858.4 | 2838.5 | 2844.0 | 2853.0 |
| 22.5° | 2619.8 | 2618.0 | 2607.1 | 2598.1 | 2608.9 |
| 25°   | 2175.0 | 2229.2 | 2238.3 | 2213.0 | 2156.9 |
| 27.5° | 1580.2 | 1706.7 | 1751.9 | 1692.3 | 1589.2 |
| 30°   | 1111.9 | 1171.6 | 1245.7 | 1128.2 | 1115.5 |
| 32.5° | 670.8  | 687.0  | 755.7  | 674.4  | 656.3  |
| 35°   | 343.5  | 356.2  | 401.4  | 343.5  | 323.6  |
| 37.5° | 160.9  | 168.1  | 186.2  | 160.9  | 150.1  |
| 40°   | 79.6   | 88.6   | 99.4   | 83.2   | 75.9   |
| 42.5° | 34.4   | 45.2   | 57.9   | 43.4   | 30.7   |
| 45°   | 9.0    | 18.1   | 32.5   | 18.1   | 9.0    |
| 47.5° | 5.4    | 7.2    | 18.1   | 7.2    | 5.4    |
| 50°   | 5.4    | 5.4    | 9.0    | 5.4    | 5.4    |
| 52.5° | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    |
| 55°   | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    |
| 57.5° | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    |
| 60°   | 3.6    | 5.4    | 3.6    | 5.4    | 3.6    |
| 62.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    |
| 65°   | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    |
| 67.5° | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    |
| 70°   | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 72.5° | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 75°   | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 77.5° | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 80°   | 1.8    | 1.8    | 1.8    | 1.8    | 1.8    |
| 82.5° | 0.0    | 1.8    | 0.0    | 1.8    | 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)