

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: P1308511

Luminaire Tested: P3SQAS24R509030D010 E3SQCD1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308511  
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: P3SQAS24R509030D010 E3SQCD1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , E3SQCD1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

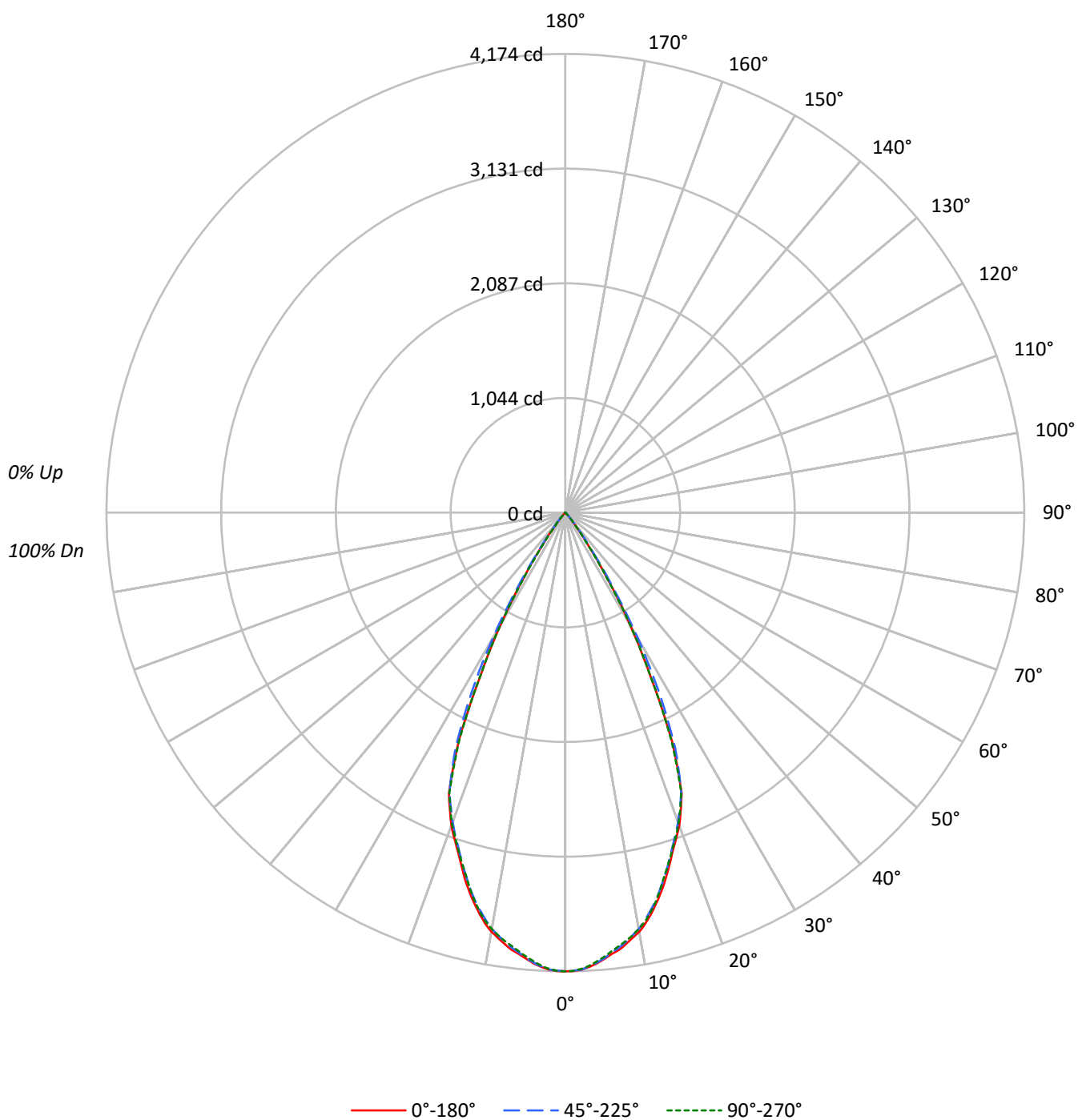
Lumens per Lamp: N/A  
Luminaire Lumens: 2689.9 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.78  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  | 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 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 100 | 99  | 98  | 97  | 96  | 96  | 96  | 95  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 97  | 95  | 97  | 95  | 93  | 94  | 93  | 91  | 91  | 91  | 90  |
| 3   | 105 | 99  | 94  | 91  | 103 | 98  | 93  | 90  | 95  | 92  | 89  | 93  | 90  | 87  | 90  | 88  | 86  | 86  | 86  | 85  |
| 4   | 100 | 93  | 89  | 85  | 98  | 92  | 88  | 84  | 90  | 86  | 83  | 88  | 85  | 82  | 87  | 84  | 81  | 81  | 81  | 80  |
| 5   | 96  | 88  | 83  | 80  | 94  | 88  | 83  | 79  | 86  | 82  | 78  | 84  | 81  | 78  | 83  | 80  | 77  | 77  | 77  | 76  |
| 6   | 92  | 84  | 79  | 75  | 90  | 83  | 78  | 75  | 82  | 77  | 74  | 80  | 77  | 74  | 79  | 76  | 73  | 73  | 73  | 72  |
| 7   | 88  | 80  | 74  | 71  | 87  | 79  | 74  | 71  | 78  | 73  | 70  | 77  | 73  | 70  | 76  | 72  | 69  | 69  | 69  | 68  |
| 8   | 84  | 76  | 71  | 67  | 83  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 69  | 66  | 72  | 69  | 66  | 66  | 66  | 65  |
| 9   | 81  | 72  | 67  | 64  | 80  | 72  | 67  | 63  | 71  | 66  | 63  | 70  | 66  | 63  | 69  | 66  | 63  | 63  | 63  | 62  |
| 10  | 78  | 69  | 64  | 60  | 77  | 69  | 64  | 60  | 68  | 63  | 60  | 67  | 63  | 60  | 66  | 63  | 60  | 60  | 60  | 59  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 718875 | 718875 | 718875 |
| 5°  | 704799 | 703468 | 701497 |
| 10° | 677203 | 672534 | 672866 |
| 15° | 621672 | 615895 | 615199 |
| 20° | 555398 | 549442 | 552246 |
| 25° | 436510 | 449204 | 432881 |
| 30° | 233528 | 261628 | 234303 |
| 35° | 76277  | 89123  | 71862  |
| 40° | 18885  | 23606  | 18031  |
| 45° | 2314   | 8378   | 2314   |
| 50° | 1527   | 2545   | 1527   |
| 55° | 1711   | 1711   | 1711   |
| 60° | 1309   | 1309   | 1309   |
| 65° | 1549   | 1549   | 1549   |
| 70° | 957    | 957    | 957    |
| 75° | 1264   | 1264   | 1264   |
| 80° | 1884   | 1884   | 1884   |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 8378 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 381.7  | 14.2      |
| 10°-20°   | 965.3  | 35.9      |
| 20°-30°   | 1015.3 | 37.7      |
| 30°-40°   | 292.6  | 10.9      |
| 40°-50°   | 23.8   | 0.9       |
| 50°-60°   | 5.1    | 0.2       |
| 60°-70°   | 3.6    | 0.1       |
| 70°-80°   | 2.0    | 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°    | 2362.3 | 87.8      |
| 0°-40°    | 2654.9 | 98.7      |
| 0°-60°    | 2683.8 | 99.8      |
| 0°-90°    | 2689.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2689.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4174 | 4174  | 4174 | 4174  | 4174 |      |
| 5°  | 4077 | 4075  | 4069 | 4073  | 4058 | 383  |
| 15° | 3487 | 3464  | 3454 | 3454  | 3450 | 971  |
| 25° | 2297 | 2354  | 2364 | 2337  | 2278 | 995  |
| 35° | 363  | 376   | 424  | 363   | 342  | 280  |
| 45° | 10   | 19    | 34   | 19    | 10   | 18   |
| 55° | 6    | 6     | 6    | 6     | 6    | 5    |
| 65° | 4    | 4     | 4    | 4     | 4    | 4    |
| 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°    | 4174.1 | 4174.1 | 4174.1 | 4174.1 | 4174.1 |
| 1°    | 4172.2 | 4176.1 | 4168.4 | 4181.8 | 4170.3 |
| 2°    | 4162.7 | 4164.6 | 4160.8 | 4170.3 | 4155.0 |
| 3°    | 4139.8 | 4143.6 | 4136.0 | 4143.6 | 4130.2 |
| 4°    | 4113.0 | 4113.0 | 4105.4 | 4111.1 | 4093.9 |
| 5°    | 4076.8 | 4074.8 | 4069.1 | 4072.9 | 4057.7 |
| 6°    | 4038.6 | 4036.7 | 4027.1 | 4027.1 | 4015.7 |
| 7°    | 4009.9 | 3996.6 | 3988.9 | 3987.0 | 3975.6 |
| 8°    | 3964.1 | 3960.3 | 3945.0 | 3945.0 | 3937.4 |
| 9°    | 3918.3 | 3914.5 | 3897.3 | 3901.1 | 3895.4 |
| 10°   | 3872.4 | 3859.1 | 3845.7 | 3847.6 | 3847.6 |
| 11°   | 3811.3 | 3799.9 | 3780.8 | 3788.4 | 3792.2 |
| 12°   | 3738.8 | 3725.4 | 3708.2 | 3723.5 | 3721.6 |
| 13°   | 3658.6 | 3647.1 | 3633.8 | 3645.2 | 3641.4 |
| 14°   | 3574.6 | 3557.4 | 3545.9 | 3553.6 | 3549.7 |
| 15°   | 3486.7 | 3463.8 | 3454.3 | 3454.3 | 3450.4 |
| 17.5° | 3240.4 | 3227.0 | 3217.5 | 3211.8 | 3225.1 |
| 20°   | 3030.4 | 3018.9 | 2997.9 | 3003.6 | 3013.2 |
| 22.5° | 2766.8 | 2764.9 | 2753.5 | 2743.9 | 2755.4 |
| 25°   | 2297.1 | 2354.4 | 2363.9 | 2337.2 | 2278.0 |
| 27.5° | 1668.9 | 1802.6 | 1850.3 | 1787.3 | 1678.4 |
| 30°   | 1174.3 | 1237.3 | 1315.6 | 1191.5 | 1178.2 |
| 32.5° | 708.4  | 725.6  | 798.2  | 712.2  | 693.1  |
| 35°   | 362.8  | 376.2  | 423.9  | 362.8  | 341.8  |
| 37.5° | 169.9  | 177.6  | 196.7  | 169.9  | 158.5  |
| 40°   | 84.0   | 93.6   | 105.0  | 87.8   | 80.2   |
| 42.5° | 36.3   | 47.7   | 61.1   | 45.8   | 32.5   |
| 45°   | 9.5    | 19.1   | 34.4   | 19.1   | 9.5    |
| 47.5° | 5.7    | 7.6    | 19.1   | 7.6    | 5.7    |
| 50°   | 5.7    | 5.7    | 9.5    | 5.7    | 5.7    |
| 52.5° | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    |
| 55°   | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    |
| 57.5° | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    |
| 60°   | 3.8    | 5.7    | 3.8    | 5.7    | 3.8    |
| 62.5° | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 65°   | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 67.5° | 3.8    | 3.8    | 3.8    | 3.8    | 3.8    |
| 70°   | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 72.5° | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 75°   | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 77.5° | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 80°   | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    |
| 82.5° | 0.0    | 1.9    | 0.0    | 1.9    | 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)