

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: P1310601

Luminaire Tested: P3SQAS20R509040D010 E3SQCD1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310601  
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: P3SQAS20R509040D010 E3SQCD1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 90CRI , E3SQCD1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

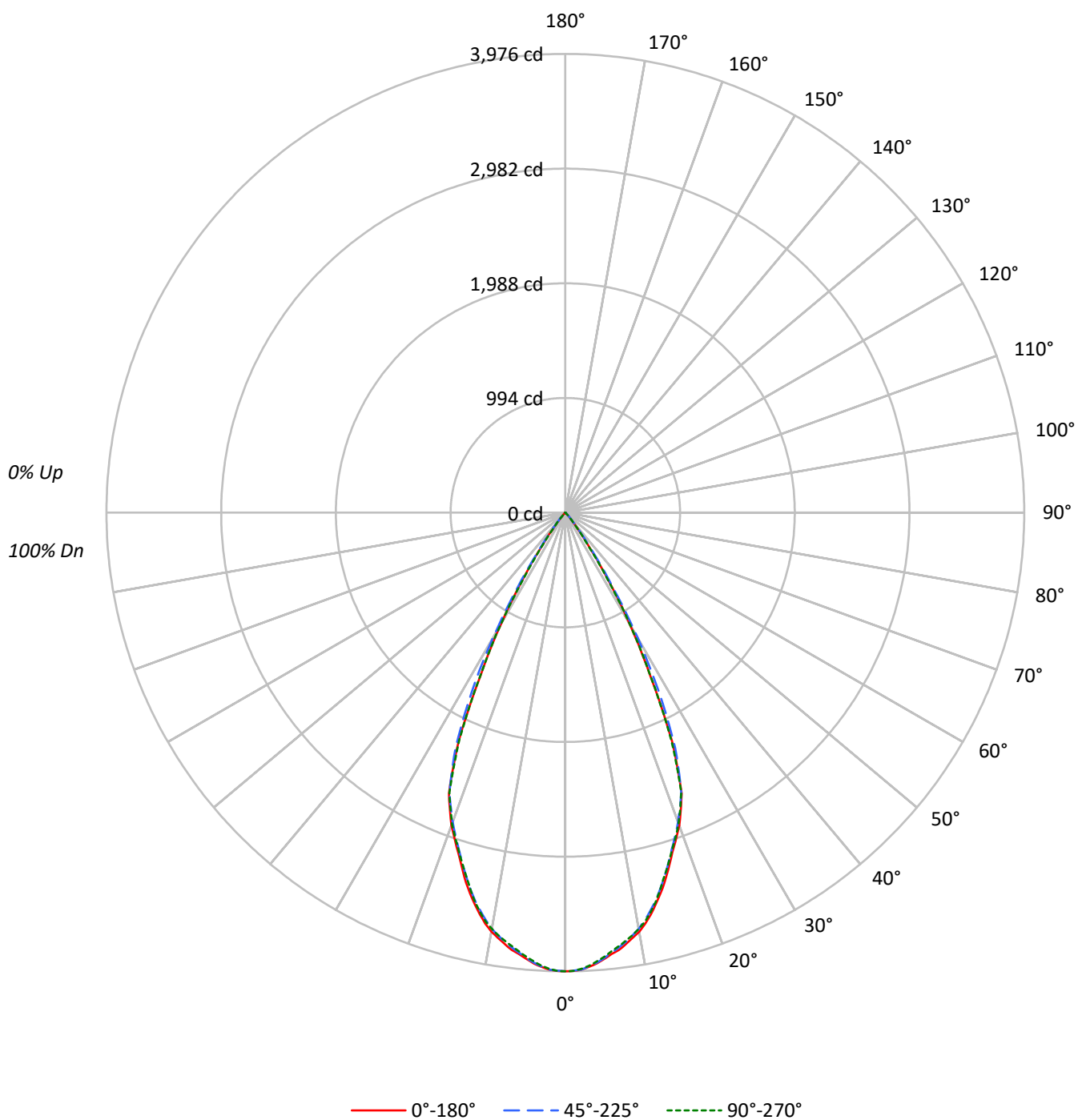
Lumens per Lamp: N/A  
Luminaire Lumens: 2562.0 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.78  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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°  | 684671 | 684671 | 684671 |
| 5°  | 671260 | 669998 | 668114 |
| 10° | 644990 | 640531 | 640846 |
| 15° | 592092 | 586583 | 585941 |
| 20° | 528970 | 523288 | 525964 |
| 25° | 415740 | 427845 | 412282 |
| 30° | 222431 | 249179 | 223147 |
| 35° | 72640  | 84876  | 68435  |
| 40° | 17986  | 22482  | 17176  |
| 45° | 2216   | 7964   | 2216   |
| 50° | 1474   | 2438   | 1474   |
| 55° | 1651   | 1651   | 1651   |
| 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: 7964 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 363.5  | 14.2      |
| 10°-20°   | 919.4  | 35.9      |
| 20°-30°   | 967.0  | 37.7      |
| 30°-40°   | 278.7  | 10.9      |
| 40°-50°   | 22.6   | 0.9       |
| 50°-60°   | 4.9    | 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°    | 2249.9 | 87.8      |
| 0°-40°    | 2528.6 | 98.7      |
| 0°-60°    | 2556.1 | 99.8      |
| 0°-90°    | 2562.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2562.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3976 | 3976  | 3976 | 3976  | 3976 |      |
| 5°  | 3883 | 3881  | 3876 | 3879  | 3865 | 365  |
| 15° | 3321 | 3299  | 3290 | 3290  | 3286 | 925  |
| 25° | 2188 | 2242  | 2252 | 2226  | 2170 | 948  |
| 35° | 346  | 358   | 404  | 346   | 326  | 267  |
| 45° | 9    | 18    | 33   | 18    | 9    | 17   |
| 55° | 6    | 6     | 6    | 6     | 6    | 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°    | 3975.5 | 3975.5 | 3975.5 | 3975.5 | 3975.5 |
| 1°    | 3973.7 | 3977.3 | 3970.1 | 3982.8 | 3971.9 |
| 2°    | 3964.6 | 3966.4 | 3962.8 | 3971.9 | 3957.3 |
| 3°    | 3942.8 | 3946.4 | 3939.1 | 3946.4 | 3933.7 |
| 4°    | 3917.3 | 3917.3 | 3910.1 | 3915.5 | 3899.1 |
| 5°    | 3882.8 | 3881.0 | 3875.5 | 3879.1 | 3864.6 |
| 6°    | 3846.4 | 3844.6 | 3835.5 | 3835.5 | 3824.6 |
| 7°    | 3819.1 | 3806.4 | 3799.1 | 3797.3 | 3786.4 |
| 8°    | 3775.5 | 3771.8 | 3757.3 | 3757.3 | 3750.0 |
| 9°    | 3731.8 | 3728.2 | 3711.8 | 3715.5 | 3710.0 |
| 10°   | 3688.2 | 3675.4 | 3662.7 | 3664.5 | 3664.5 |
| 11°   | 3630.0 | 3619.1 | 3600.9 | 3608.2 | 3611.8 |
| 12°   | 3560.9 | 3548.1 | 3531.8 | 3546.3 | 3544.5 |
| 13°   | 3484.5 | 3473.6 | 3460.8 | 3471.8 | 3468.1 |
| 14°   | 3404.5 | 3388.1 | 3377.2 | 3384.5 | 3380.8 |
| 15°   | 3320.8 | 3299.0 | 3289.9 | 3289.9 | 3286.3 |
| 17.5° | 3086.2 | 3073.5 | 3064.4 | 3058.9 | 3071.7 |
| 20°   | 2886.2 | 2875.3 | 2855.2 | 2860.7 | 2869.8 |
| 22.5° | 2635.2 | 2633.4 | 2622.5 | 2613.4 | 2624.3 |
| 25°   | 2187.8 | 2242.4 | 2251.5 | 2226.0 | 2169.6 |
| 27.5° | 1589.5 | 1716.8 | 1762.3 | 1702.2 | 1598.6 |
| 30°   | 1118.5 | 1178.5 | 1253.0 | 1134.8 | 1122.1 |
| 32.5° | 674.7  | 691.1  | 760.2  | 678.3  | 660.2  |
| 35°   | 345.5  | 358.3  | 403.7  | 345.5  | 325.5  |
| 37.5° | 161.9  | 169.1  | 187.3  | 161.9  | 150.9  |
| 40°   | 80.0   | 89.1   | 100.0  | 83.7   | 76.4   |
| 42.5° | 34.6   | 45.5   | 58.2   | 43.6   | 30.9   |
| 45°   | 9.1    | 18.2   | 32.7   | 18.2   | 9.1    |
| 47.5° | 5.5    | 7.3    | 18.2   | 7.3    | 5.5    |
| 50°   | 5.5    | 5.5    | 9.1    | 5.5    | 5.5    |
| 52.5° | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    |
| 55°   | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    |
| 57.5° | 5.5    | 5.5    | 5.5    | 5.5    | 5.5    |
| 60°   | 3.6    | 5.5    | 3.6    | 5.5    | 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)