

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: P1317455

Luminaire Tested: P3SQAS20R459830D010 E3SQCD1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317455  
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: P3SQAS20R459830D010 E3SQCD1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 98CRI , E3SQCD1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

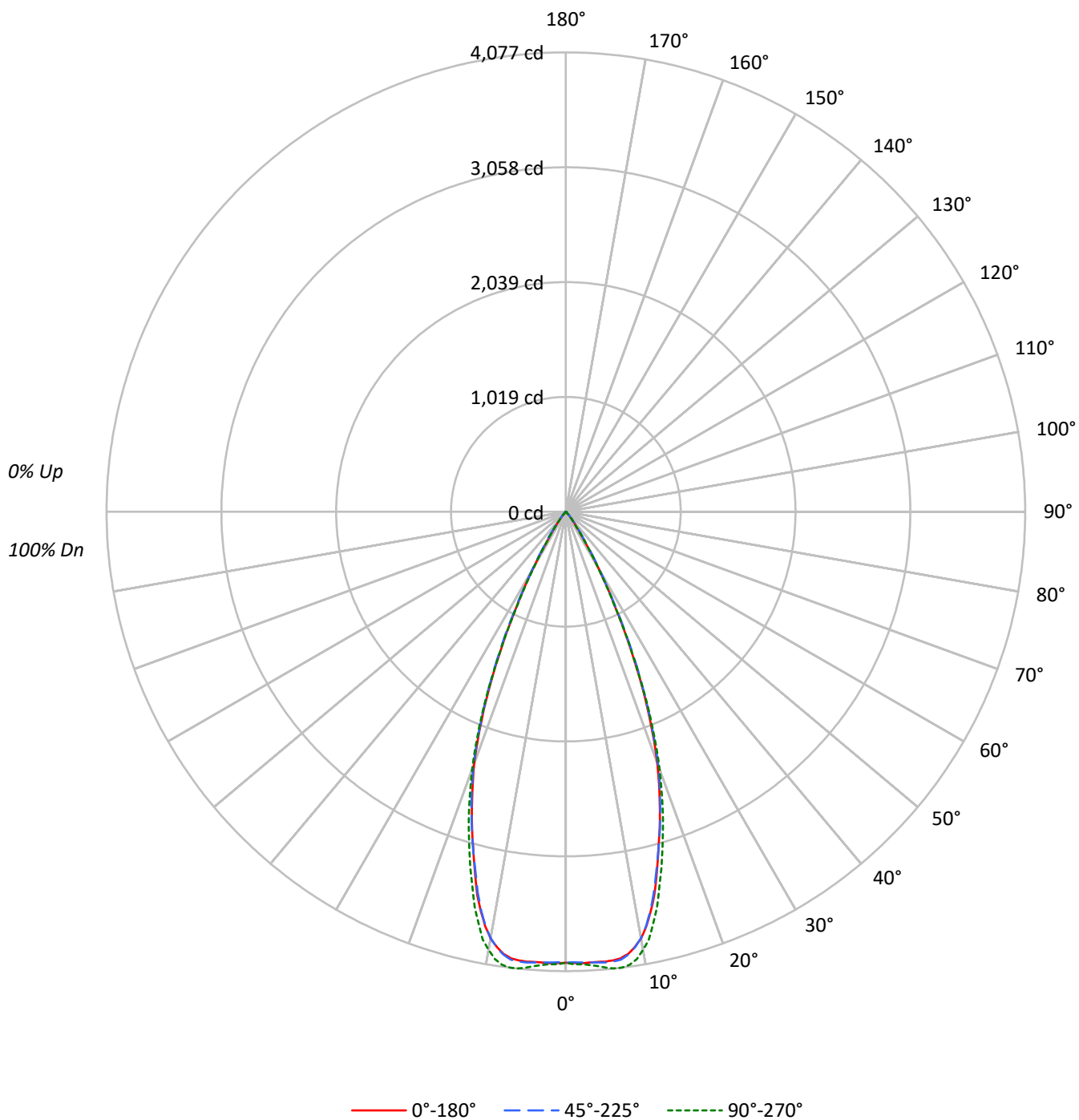
Lumens per Lamp: N/A  
Luminaire Lumens: 2072.0 lumens  
Efficiency: N/A  
Efficacy: 75.6 lumens/watt  
Spacing Criteria (0/90/45): 0.72 / 0.73 / 0.67  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.4  
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 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 |  | 102 | 101 | 100 |  | 99  |
| 2   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  |  | 98  | 96  | 94  |  | 95  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 91  |  | 94  | 91  | 89  |  | 92  |
| 4   | 101 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 88  | 86  |  | 90  | 87  | 85  |  | 88  |
| 5   | 98  | 91  | 86  | 82  | 96  | 90  | 85  | 82  | 88  | 84  | 81  |  | 87  | 83  | 81  |  | 85  |
| 6   | 94  | 86  | 82  | 78  | 93  | 86  | 81  | 78  | 84  | 80  | 77  |  | 83  | 79  | 77  |  | 82  |
| 7   | 90  | 83  | 78  | 74  | 89  | 82  | 77  | 74  | 81  | 77  | 74  |  | 80  | 76  | 73  |  | 79  |
| 8   | 87  | 79  | 74  | 71  | 86  | 79  | 74  | 71  | 78  | 73  | 70  |  | 77  | 73  | 70  |  | 76  |
| 9   | 84  | 76  | 71  | 68  | 83  | 75  | 71  | 68  | 75  | 70  | 67  |  | 74  | 70  | 67  |  | 73  |
| 10  | 81  | 73  | 68  | 65  | 80  | 72  | 68  | 65  | 72  | 67  | 65  |  | 71  | 67  | 64  |  | 70  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 689476 | 689476 | 689476 |
| 5°  | 692905 | 694219 | 702137 |
| 10° | 672324 | 671799 | 690494 |
| 15° | 563457 | 563190 | 583890 |
| 20° | 435591 | 440063 | 446221 |
| 25° | 267025 | 272555 | 267615 |
| 30° | 114507 | 119677 | 110868 |
| 35° | 35973  | 43353  | 35006  |
| 40° | 12365  | 15805  | 12028  |
| 45° | 2241   | 6698   | 1851   |
| 50° | 1232   | 2465   | 1232   |
| 55° | 1381   | 1381   | 1381   |
| 60° | 1068   | 1068   | 1068   |
| 65° | 1263   | 1263   | 1263   |
| 70° | 755    | 755    | 755    |
| 75° | 998    | 998    | 998    |
| 80° | 1488   | 1488   | 1488   |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 6698 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 380.5  | 18.4      |
| 10°-20°   | 879.2  | 42.4      |
| 20°-30°   | 643.7  | 31.1      |
| 30°-40°   | 142.2  | 6.9       |
| 40°-50°   | 17.4   | 0.8       |
| 50°-60°   | 4.1    | 0.2       |
| 60°-70°   | 3.0    | 0.1       |
| 70°-80°   | 1.6    | 0.1       |
| 80°-90°   | 0.2    | 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°    | 1903.4 | 91.9      |
| 0°-40°    | 2045.7 | 98.7      |
| 0°-60°    | 2067.2 | 99.8      |
| 0°-90°    | 2072.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2072.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4003 | 4003  | 4003 | 4003  | 4003 |      |
| 5°  | 4008 | 4005  | 4016 | 4045  | 4061 | 378  |
| 15° | 3160 | 3143  | 3159 | 3235  | 3275 | 872  |
| 25° | 1405 | 1404  | 1434 | 1424  | 1408 | 636  |
| 35° | 171  | 180   | 206  | 180   | 166  | 135  |
| 45° | 9    | 15    | 28   | 15    | 8    | 12   |
| 55° | 5    | 5     | 5    | 5     | 5    | 4    |
| 65° | 3    | 3     | 3    | 3     | 3    | 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°    | 4003.4 | 4003.4 | 4003.4 | 4003.4 | 4003.4 |
| 1°    | 4006.4 | 4000.3 | 3998.8 | 4009.5 | 4017.1 |
| 2°    | 4009.5 | 4001.9 | 4003.4 | 4014.1 | 4018.7 |
| 3°    | 4006.4 | 3998.8 | 4006.4 | 4021.7 | 4027.8 |
| 4°    | 4004.9 | 4001.9 | 4009.5 | 4030.9 | 4041.6 |
| 5°    | 4008.0 | 4004.9 | 4015.6 | 4044.6 | 4061.4 |
| 6°    | 4003.4 | 3998.8 | 4014.1 | 4050.7 | 4075.2 |
| 7°    | 3992.7 | 3988.1 | 4004.9 | 4049.2 | 4076.7 |
| 8°    | 3963.7 | 3954.5 | 3971.3 | 4026.3 | 4059.9 |
| 9°    | 3911.7 | 3899.5 | 3916.3 | 3980.5 | 4020.2 |
| 10°   | 3844.5 | 3830.8 | 3841.5 | 3904.1 | 3948.4 |
| 11°   | 3748.3 | 3730.0 | 3742.2 | 3809.4 | 3867.4 |
| 12°   | 3626.1 | 3600.1 | 3615.4 | 3691.8 | 3733.0 |
| 13°   | 3493.2 | 3468.8 | 3471.8 | 3540.6 | 3598.6 |
| 14°   | 3328.3 | 3296.2 | 3309.9 | 3381.7 | 3427.5 |
| 15°   | 3160.2 | 3143.4 | 3158.7 | 3235.1 | 3274.8 |
| 17.5° | 2775.3 | 2773.8 | 2787.6 | 2844.1 | 2865.5 |
| 20°   | 2376.7 | 2381.3 | 2401.1 | 2431.7 | 2434.7 |
| 22.5° | 1904.7 | 1906.2 | 1927.6 | 1949.0 | 1944.4 |
| 25°   | 1405.2 | 1403.7 | 1434.3 | 1423.6 | 1408.3 |
| 27.5° | 931.7  | 937.8  | 965.3  | 945.5  | 930.2  |
| 30°   | 575.8  | 588.1  | 601.8  | 577.4  | 557.5  |
| 32.5° | 311.6  | 331.5  | 351.3  | 329.9  | 310.1  |
| 35°   | 171.1  | 180.2  | 206.2  | 180.2  | 166.5  |
| 37.5° | 99.3   | 103.9  | 120.7  | 103.9  | 94.7   |
| 40°   | 55.0   | 62.6   | 70.3   | 62.6   | 53.5   |
| 42.5° | 22.9   | 35.1   | 42.8   | 35.1   | 22.9   |
| 45°   | 9.2    | 15.3   | 27.5   | 15.3   | 7.6    |
| 47.5° | 4.6    | 6.1    | 16.8   | 6.1    | 4.6    |
| 50°   | 4.6    | 4.6    | 9.2    | 4.6    | 4.6    |
| 52.5° | 4.6    | 4.6    | 4.6    | 4.6    | 4.6    |
| 55°   | 4.6    | 4.6    | 4.6    | 4.6    | 4.6    |
| 57.5° | 4.6    | 4.6    | 4.6    | 4.6    | 4.6    |
| 60°   | 3.1    | 3.1    | 3.1    | 4.6    | 3.1    |
| 62.5° | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    |
| 65°   | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    |
| 67.5° | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    |
| 70°   | 1.5    | 1.5    | 1.5    | 3.1    | 1.5    |
| 72.5° | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 75°   | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 77.5° | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 80°   | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 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)