

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: P1317819

Luminaire Tested: P3SQAS09R209835DE010 E3SQPH1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317819  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS09R209835DE010 E3SQPH1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , E3SQPH1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

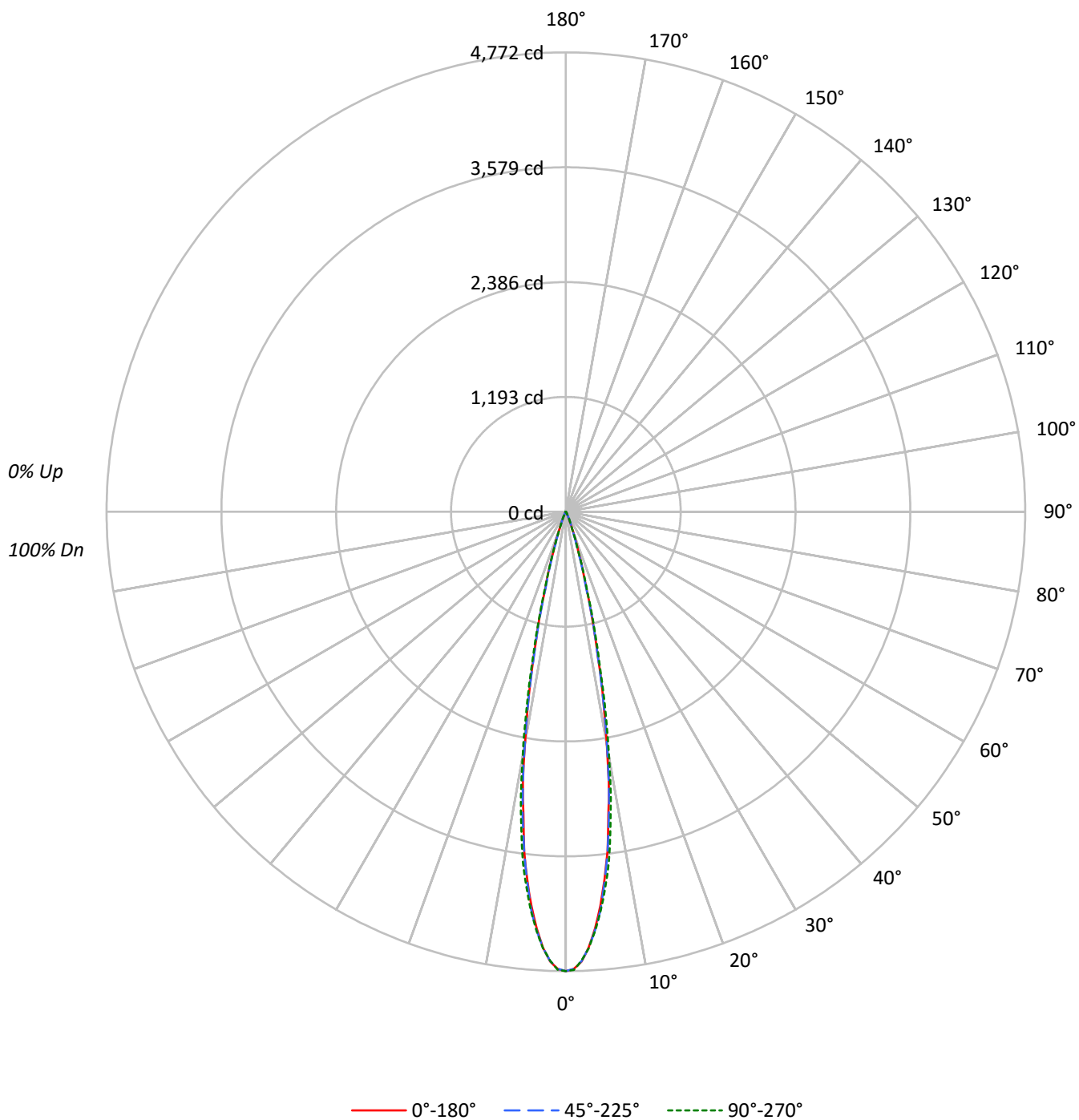
Lumens per Lamp: N/A  
Luminaire Lumens: 641.0 lumens  
Efficiency: N/A  
Efficacy: 58.3 lumens/watt  
Spacing Criteria (0/90/45): 0.35 / 0.36 / 0.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11  
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   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 |  | 104 | 103 | 102 |  | 101 |
| 2   | 113 | 109 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 101 |  | 102 | 101 | 99  |  | 99  |
| 3   | 110 | 106 | 103 | 100 | 108 | 105 | 102 | 100 | 102 | 100 | 98  |  | 100 | 98  | 97  |  | 98  |
| 4   | 107 | 103 | 99  | 97  | 106 | 102 | 99  | 96  | 100 | 97  | 95  |  | 98  | 96  | 94  |  | 96  |
| 5   | 105 | 100 | 97  | 94  | 104 | 99  | 96  | 94  | 98  | 95  | 93  |  | 96  | 94  | 92  |  | 95  |
| 6   | 103 | 98  | 94  | 92  | 102 | 97  | 94  | 91  | 96  | 93  | 91  |  | 95  | 92  | 90  |  | 93  |
| 7   | 101 | 95  | 92  | 90  | 100 | 95  | 92  | 89  | 94  | 91  | 89  |  | 93  | 90  | 89  |  | 92  |
| 8   | 99  | 93  | 90  | 88  | 98  | 93  | 90  | 88  | 92  | 89  | 87  |  | 91  | 89  | 87  |  | 91  |
| 9   | 97  | 92  | 88  | 86  | 96  | 91  | 88  | 86  | 91  | 88  | 86  |  | 90  | 87  | 86  |  | 89  |
| 10  | 95  | 90  | 87  | 85  | 95  | 90  | 87  | 85  | 89  | 86  | 84  |  | 88  | 86  | 84  |  | 88  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 821915 | 821915 | 821915 |
| 5°  | 710038 | 716659 | 719321 |
| 10° | 427440 | 431428 | 452903 |
| 15° | 147845 | 144386 | 155886 |
| 20° | 38836  | 36527  | 36637  |
| 25° | 8456   | 10204  | 11611  |
| 30° | 3639   | 3639   | 3739   |
| 35° | 2039   | 1808   | 1913   |
| 40° | 899    | 1034   | 1147   |
| 45° | 268    | 414    | 414    |
| 50° | 161    | 161    | 161    |
| 55° | 0      | 0      | 0      |
| 60° | 0      | 0      | 0      |
| 65° | 0      | 0      | 0      |
| 70° | 0      | 0      | 0      |
| 75° | 0      | 0      | 0      |
| 80° | 0      | 0      | 0      |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 414 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 341.3  | 53.2      |
| 10°-20°   | 259.9  | 40.5      |
| 20°-30°   | 32.1   | 5.0       |
| 30°-40°   | 6.1    | 1.0       |
| 40°-50°   | 1.5    | 0.2       |
| 50°-60°   | 0.1    | 0.0       |
| 60°-70°   | 0.0    | 0.0       |
| 70°-80°   | 0.0    | 0.0       |
| 80°-90°   | 0.0    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 633.4  | 98.8      |
| 0°-40°    | 639.5  | 99.8      |
| 0°-60°    | 641.0  | 100.0     |
| 0°-90°    | 641.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 641.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4772 | 4772  | 4772 | 4772  | 4772 |      |
| 5°  | 4107 | 4104  | 4145 | 4142  | 4161 | 339  |
| 15° | 829  | 800   | 810  | 858   | 874  | 260  |
| 25° | 44   | 51    | 54   | 56    | 61   | 31   |
| 35° | 10   | 10    | 9    | 9     | 9    | 6    |
| 45° | 1    | 2     | 2    | 2     | 2    | 1    |
| 55° | 0    | 0     | 0    | 0     | 0    | 0    |
| 65° | 0    | 0     | 0    | 0     | 0    | 0    |
| 75° | 0    | 0     | 0    | 0     | 0    | 0    |
| 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°    | 4772.4 | 4772.4 | 4772.4 | 4772.4 | 4772.4 |
| 1°    | 4750.2 | 4744.5 | 4749.0 | 4739.3 | 4759.3 |
| 2°    | 4674.2 | 4668.5 | 4668.5 | 4662.8 | 4665.6 |
| 3°    | 4532.6 | 4541.7 | 4536.0 | 4524.0 | 4539.4 |
| 4°    | 4339.6 | 4349.8 | 4359.0 | 4359.5 | 4361.8 |
| 5°    | 4107.1 | 4104.3 | 4145.4 | 4142.5 | 4160.8 |
| 6°    | 3842.2 | 3838.7 | 3856.4 | 3886.1 | 3922.7 |
| 7°    | 3550.9 | 3509.2 | 3556.6 | 3616.6 | 3665.7 |
| 8°    | 3174.0 | 3184.9 | 3217.4 | 3288.2 | 3327.6 |
| 9°    | 2854.2 | 2790.8 | 2859.9 | 2944.4 | 2987.3 |
| 10°   | 2444.2 | 2392.8 | 2467.0 | 2556.1 | 2589.8 |
| 12.5° | 1538.5 | 1493.9 | 1517.9 | 1611.6 | 1626.4 |
| 15°   | 829.2  | 799.5  | 809.8  | 858.3  | 874.3  |
| 17.5° | 423.2  | 396.3  | 390.6  | 421.4  | 424.9  |
| 20°   | 211.9  | 205.6  | 199.3  | 202.2  | 199.9  |
| 22.5° | 98.2   | 106.8  | 105.6  | 99.9   | 106.8  |
| 25°   | 44.5   | 50.8   | 53.7   | 56.0   | 61.1   |
| 27.5° | 27.4   | 26.3   | 30.3   | 32.6   | 33.1   |
| 30°   | 18.3   | 17.7   | 18.3   | 18.8   | 18.8   |
| 32.5° | 13.1   | 12.6   | 12.0   | 12.0   | 12.6   |
| 35°   | 9.7    | 9.7    | 8.6    | 9.1    | 9.1    |
| 37.5° | 6.9    | 6.9    | 6.3    | 6.9    | 6.9    |
| 40°   | 4.0    | 4.6    | 4.6    | 4.6    | 5.1    |
| 42.5° | 2.3    | 2.9    | 2.9    | 2.9    | 2.9    |
| 45°   | 1.1    | 1.7    | 1.7    | 1.7    | 1.7    |
| 47.5° | 0.6    | 0.6    | 0.6    | 1.1    | 1.1    |
| 50°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 52.5° | 0.6    | 0.0    | 0.0    | 0.0    | 0.6    |
| 55°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)