

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: P1310516

Luminaire Tested: P3SQAS20R209040D010 E3SQPH1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310516  
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: P3SQAS20R209040D010 E3SQPH1MB  
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 90CRI , E3SQPH1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

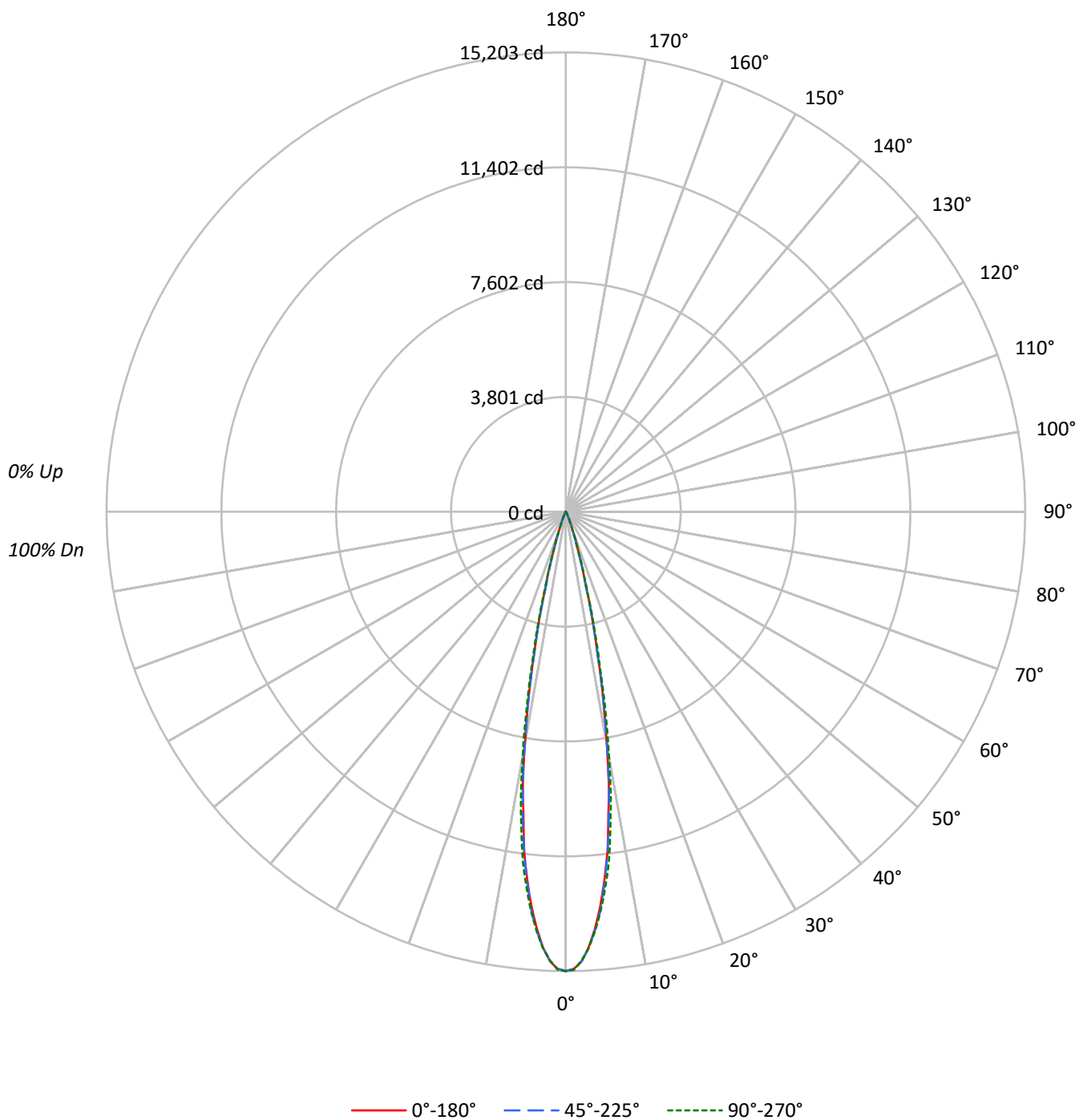
Lumens per Lamp: N/A  
Luminaire Lumens: 2042.0 lumens  
Efficiency: N/A  
Efficacy: 70.9 lumens/watt  
Spacing Criteria (0/90/45): 0.35 / 0.36 / 0.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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   | 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°  | 2618352 | 2618352 | 2618352 |
| 5°  | 2261951 | 2283025 | 2291514 |
| 10° | 1361664 | 1374395 | 1442790 |
| 15° | 470974  | 459955  | 496596  |
| 20° | 123693  | 116362  | 116692  |
| 25° | 26965   | 32495   | 36998   |
| 30° | 11574   | 11574   | 11932   |
| 35° | 6497    | 5740    | 6118    |
| 40° | 2855    | 3282    | 3687    |
| 45° | 877     | 1340    | 1340    |
| 50° | 482     | 482     | 482     |
| 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: 1340 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1087.4 | 53.3      |
| 10°-20°   | 827.9  | 40.5      |
| 20°-30°   | 102.4  | 5.0       |
| 30°-40°   | 19.4   | 0.9       |
| 40°-50°   | 4.7    | 0.2       |
| 50°-60°   | 0.3    | 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       |
| 0°-30°    | 2017.7 | 98.8      |
| 0°-40°    | 2037.0 | 99.8      |
| 0°-60°    | 2042.0 | 100.0     |
| 0°-90°    | 2042.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2042.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 15203 | 15203 | 15203 | 15203 | 15203 |      |
| 5°  | 13084 | 13075 | 13206 | 13197 | 13255 | 1079 |
| 15° | 2642  | 2547  | 2580  | 2734  | 2785  | 827  |
| 25° | 142   | 162   | 171   | 178   | 195   | 98   |
| 35° | 31    | 31    | 27    | 29    | 29    | 20   |
| 45° | 4     | 6     | 6     | 6     | 6     | 4    |
| 55° | 0     | 0     | 0     | 0     | 0     | 1    |
| 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°    | 15203.3 | 15203.3 | 15203.3 | 15203.3 | 15203.3 |
| 1°    | 15132.3 | 15114.1 | 15128.7 | 15097.8 | 15161.4 |
| 2°    | 14890.4 | 14872.2 | 14872.2 | 14854.0 | 14863.1 |
| 3°    | 14439.2 | 14468.3 | 14450.1 | 14411.9 | 14461.0 |
| 4°    | 13824.3 | 13857.1 | 13886.2 | 13888.0 | 13895.3 |
| 5°    | 13083.9 | 13074.8 | 13205.8 | 13196.7 | 13254.9 |
| 6°    | 12239.8 | 12228.9 | 12285.2 | 12379.8 | 12496.3 |
| 7°    | 11312.0 | 11179.2 | 11330.2 | 11521.2 | 11677.6 |
| 8°    | 10111.3 | 10145.8 | 10249.5 | 10475.1 | 10600.6 |
| 9°    | 9092.5  | 8890.6  | 9110.7  | 9379.9  | 9516.4  |
| 10°   | 7786.3  | 7622.6  | 7859.1  | 8142.9  | 8250.2  |
| 12.5° | 4901.0  | 4759.1  | 4835.5  | 5133.9  | 5181.2  |
| 15°   | 2641.5  | 2546.9  | 2579.7  | 2734.3  | 2785.2  |
| 17.5° | 1348.0  | 1262.5  | 1244.4  | 1342.6  | 1353.5  |
| 20°   | 674.9   | 654.9   | 634.9   | 644.0   | 636.7   |
| 22.5° | 312.9   | 340.2   | 336.6   | 318.4   | 340.2   |
| 25°   | 141.9   | 161.9   | 171.0   | 178.3   | 194.7   |
| 27.5° | 87.3    | 83.7    | 96.4    | 103.7   | 105.5   |
| 30°   | 58.2    | 56.4    | 58.2    | 60.0    | 60.0    |
| 32.5° | 41.8    | 40.0    | 38.2    | 38.2    | 40.0    |
| 35°   | 30.9    | 30.9    | 27.3    | 29.1    | 29.1    |
| 37.5° | 21.8    | 21.8    | 20.0    | 21.8    | 21.8    |
| 40°   | 12.7    | 14.6    | 14.6    | 14.6    | 16.4    |
| 42.5° | 7.3     | 9.1     | 9.1     | 9.1     | 9.1     |
| 45°   | 3.6     | 5.5     | 5.5     | 5.5     | 5.5     |
| 47.5° | 1.8     | 1.8     | 1.8     | 3.6     | 3.6     |
| 50°   | 1.8     | 1.8     | 1.8     | 1.8     | 1.8     |
| 52.5° | 1.8     | 0.0     | 0.0     | 0.0     | 1.8     |
| 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)