

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: P1312240

Luminaire Tested: P3SQAS09R209727DE010 E3SQPH1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312240  
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: P3SQAS09R209727DE010 E3SQPH1MB  
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3SQPH1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

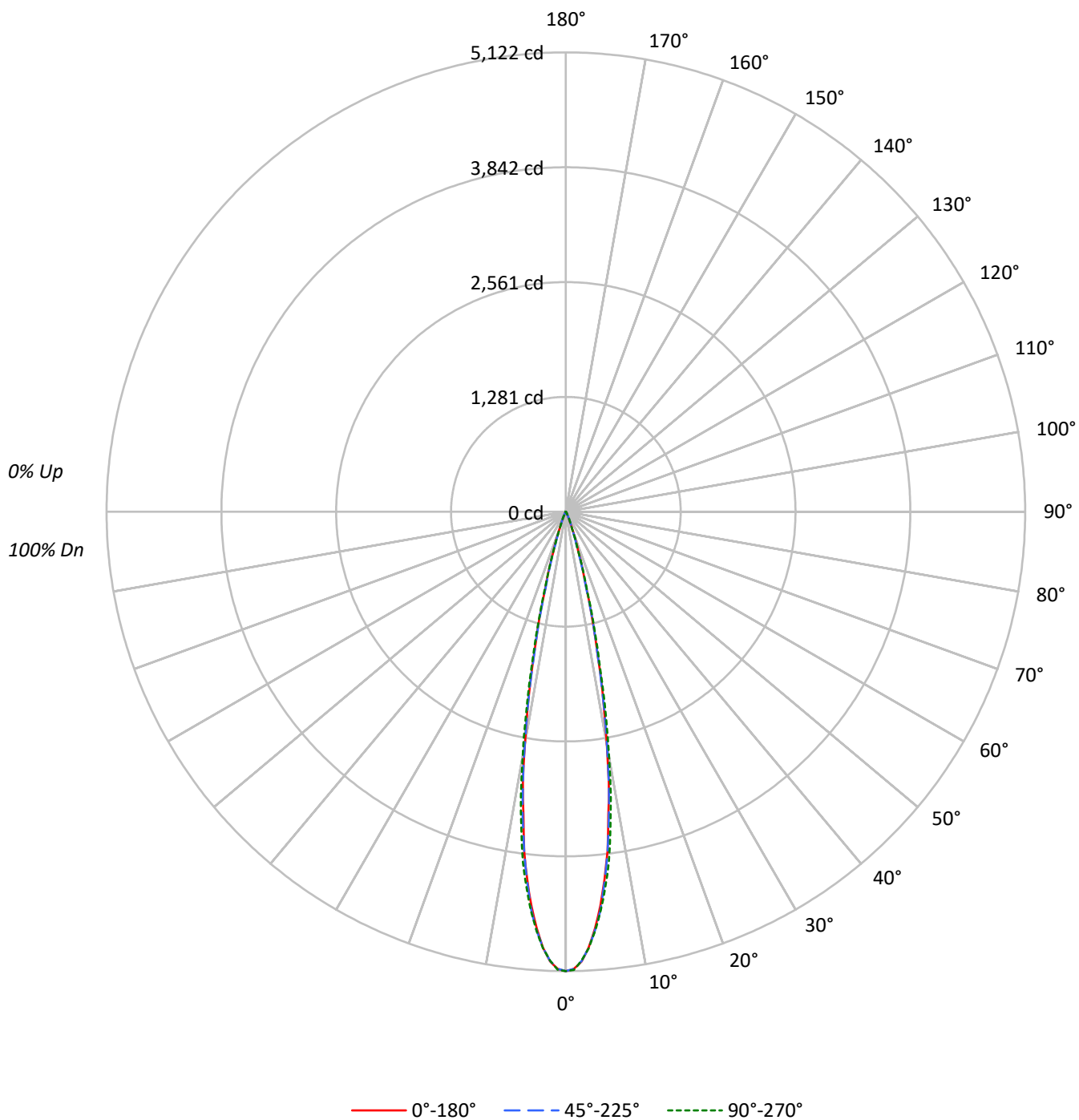
Lumens per Lamp: N/A  
Luminaire Lumens: 688.0 lumens  
Efficiency: N/A  
Efficacy: 62.0 lumens/watt  
Spacing Criteria (0/90/45): 0.35 / 0.36 / 0.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 103 | 102 | 101 | 100 | 100 |
| 2   | 113 | 109 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 101 | 102 | 101 | 99  | 99  | 98  | 97  |
| 3   | 110 | 106 | 103 | 100 | 108 | 105 | 102 | 100 | 102 | 100 | 98  | 100 | 98  | 97  | 98  | 96  | 95  |
| 4   | 107 | 103 | 99  | 97  | 106 | 102 | 99  | 96  | 100 | 97  | 95  | 98  | 96  | 94  | 96  | 95  | 93  |
| 5   | 105 | 100 | 97  | 94  | 104 | 99  | 96  | 94  | 98  | 95  | 93  | 96  | 94  | 92  | 95  | 93  | 92  |
| 6   | 103 | 98  | 94  | 92  | 102 | 97  | 94  | 91  | 96  | 93  | 91  | 95  | 92  | 90  | 93  | 91  | 90  |
| 7   | 101 | 95  | 92  | 90  | 100 | 95  | 92  | 89  | 94  | 91  | 89  | 93  | 90  | 89  | 92  | 90  | 88  |
| 8   | 99  | 93  | 90  | 88  | 98  | 93  | 90  | 88  | 92  | 89  | 87  | 91  | 89  | 87  | 91  | 88  | 87  |
| 9   | 97  | 92  | 88  | 86  | 96  | 91  | 88  | 86  | 91  | 88  | 86  | 90  | 87  | 86  | 89  | 87  | 85  |
| 10  | 95  | 90  | 87  | 85  | 95  | 90  | 87  | 85  | 89  | 86  | 84  | 88  | 86  | 84  | 88  | 86  | 84  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 882193 | 882193 | 882193 |
| 5°  | 762109 | 769215 | 772067 |
| 10° | 458779 | 463063 | 486112 |
| 15° | 158685 | 154977 | 167315 |
| 20° | 41677  | 39203  | 39313  |
| 25° | 9083   | 10946  | 12466  |
| 30° | 3898   | 3898   | 4017   |
| 35° | 2187   | 1934   | 2060   |
| 40° | 967    | 1102   | 1237   |
| 45° | 292    | 438    | 438    |
| 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: 438 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 366.4  | 53.3      |
| 10°-20°   | 278.9  | 40.5      |
| 20°-30°   | 34.5   | 5.0       |
| 30°-40°   | 6.5    | 0.9       |
| 40°-50°   | 1.6    | 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°    | 679.8  | 98.8      |
| 0°-40°    | 686.3  | 99.8      |
| 0°-60°    | 688.0  | 100.0     |
| 0°-90°    | 688.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 688.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5122 | 5122  | 5122 | 5122  | 5122 |      |
| 5°  | 4408 | 4405  | 4449 | 4446  | 4466 | 364  |
| 15° | 890  | 858   | 869  | 921   | 938  | 279  |
| 25° | 48   | 55    | 58   | 60    | 66   | 33   |
| 35° | 10   | 10    | 9    | 10    | 10   | 7    |
| 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°    | 5122.4 | 5122.4 | 5122.4 | 5122.4 | 5122.4 |
| 1°    | 5098.5 | 5092.3 | 5097.2 | 5086.8 | 5108.3 |
| 2°    | 5016.9 | 5010.8 | 5010.8 | 5004.7 | 5007.7 |
| 3°    | 4864.9 | 4874.7 | 4868.6 | 4855.7 | 4872.3 |
| 4°    | 4657.8 | 4668.8 | 4678.6 | 4679.2 | 4681.7 |
| 5°    | 4408.3 | 4405.2 | 4449.4 | 4446.3 | 4465.9 |
| 6°    | 4123.9 | 4120.2 | 4139.2 | 4171.1 | 4210.3 |
| 7°    | 3811.3 | 3766.5 | 3817.4 | 3881.8 | 3934.5 |
| 8°    | 3406.7 | 3418.4 | 3453.3 | 3529.3 | 3571.6 |
| 9°    | 3063.5 | 2995.5 | 3069.6 | 3160.3 | 3206.3 |
| 10°   | 2623.4 | 2568.2 | 2647.9 | 2743.5 | 2779.7 |
| 12.5° | 1651.3 | 1603.5 | 1629.2 | 1729.7 | 1745.7 |
| 15°   | 890.0  | 858.1  | 869.2  | 921.3  | 938.4  |
| 17.5° | 454.2  | 425.4  | 419.3  | 452.4  | 456.0  |
| 20°   | 227.4  | 220.7  | 213.9  | 217.0  | 214.5  |
| 22.5° | 105.4  | 114.6  | 113.4  | 107.3  | 114.6  |
| 25°   | 47.8   | 54.6   | 57.6   | 60.1   | 65.6   |
| 27.5° | 29.4   | 28.2   | 32.5   | 34.9   | 35.6   |
| 30°   | 19.6   | 19.0   | 19.6   | 20.2   | 20.2   |
| 32.5° | 14.1   | 13.5   | 12.9   | 12.9   | 13.5   |
| 35°   | 10.4   | 10.4   | 9.2    | 9.8    | 9.8    |
| 37.5° | 7.4    | 7.4    | 6.7    | 7.4    | 7.4    |
| 40°   | 4.3    | 4.9    | 4.9    | 4.9    | 5.5    |
| 42.5° | 2.5    | 3.1    | 3.1    | 3.1    | 3.1    |
| 45°   | 1.2    | 1.8    | 1.8    | 1.8    | 1.8    |
| 47.5° | 0.6    | 0.6    | 0.6    | 1.2    | 1.2    |
| 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)