

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: P1312409

Luminaire Tested: P3SQAS13R209727DE010 E3SQPH1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312409  
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: P3SQAS13R209727DE010 E3SQPH1MMS  
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , E3SQPH1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

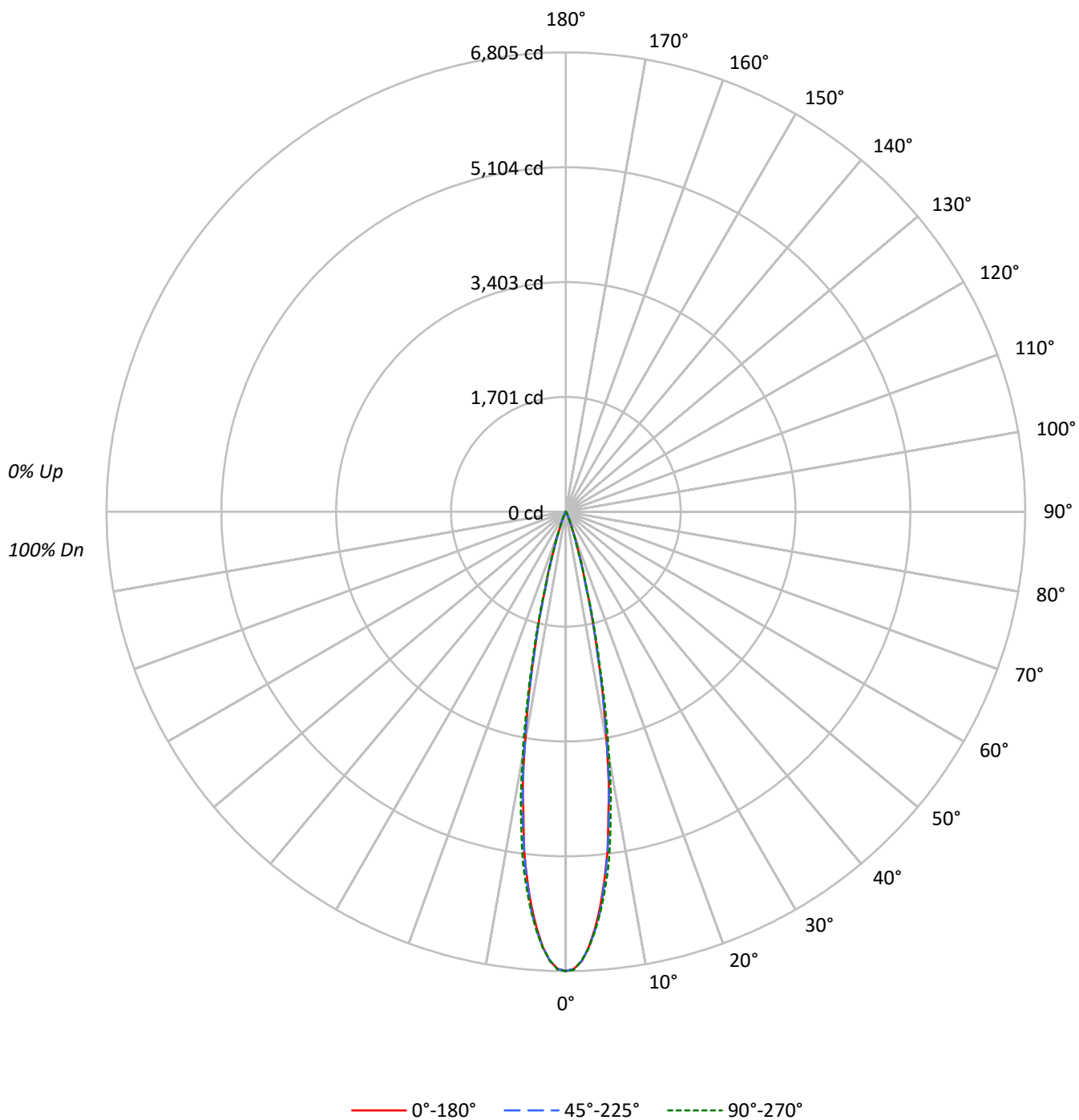
Lumens per Lamp: N/A  
Luminaire Lumens: 914.0 lumens  
Efficiency: N/A  
Efficacy: 62.6 lumens/watt  
Spacing Criteria (0/90/45): 0.35 / 0.36 / 0.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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°  | 1171975 | 1171975 | 1171975 |
| 5°  | 1012457 | 1021879 | 1025683 |
| 10° | 609472  | 615173  | 645795  |
| 15° | 210802  | 205881  | 222284  |
| 20° | 55368   | 52087   | 52234   |
| 25° | 12067   | 14537   | 16551   |
| 30° | 5190    | 5190    | 5349    |
| 35° | 2901    | 2565    | 2733    |
| 40° | 1281    | 1461    | 1641    |
| 45° | 390     | 585     | 585     |
| 50° | 214     | 214     | 214     |
| 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: 585 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 486.7  | 53.3      |
| 10°-20°   | 370.6  | 40.5      |
| 20°-30°   | 45.8   | 5.0       |
| 30°-40°   | 8.7    | 0.9       |
| 40°-50°   | 2.1    | 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°    | 903.1  | 98.8      |
| 0°-40°    | 911.8  | 99.8      |
| 0°-60°    | 914.0  | 100.0     |
| 0°-90°    | 914.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 914.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 6805 | 6805  | 6805 | 6805  | 6805 |      |
| 5°  | 5856 | 5852  | 5911 | 5907  | 5933 | 483  |
| 15° | 1182 | 1140  | 1155 | 1224  | 1247 | 370  |
| 25° | 64   | 72    | 76   | 80    | 87   | 44   |
| 35° | 14   | 14    | 12   | 13    | 13   | 9    |
| 45° | 2    | 2     | 2    | 2     | 2    | 2    |
| 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°    | 6805.0 | 6805.0 | 6805.0 | 6805.0 | 6805.0 |
| 1°    | 6773.2 | 6765.1 | 6771.6 | 6757.8 | 6786.3 |
| 2°    | 6664.9 | 6656.8 | 6656.8 | 6648.7 | 6652.7 |
| 3°    | 6463.0 | 6476.0 | 6467.9 | 6450.8 | 6472.8 |
| 4°    | 6187.8 | 6202.4 | 6215.5 | 6216.3 | 6219.5 |
| 5°    | 5856.4 | 5852.3 | 5910.9 | 5906.8 | 5932.9 |
| 6°    | 5478.5 | 5473.6 | 5498.9 | 5541.2 | 5593.3 |
| 7°    | 5063.2 | 5003.8 | 5071.4 | 5156.9 | 5226.9 |
| 8°    | 4525.8 | 4541.3 | 4587.7 | 4688.7 | 4744.9 |
| 9°    | 4069.8 | 3979.4 | 4078.0 | 4198.5 | 4259.5 |
| 10°   | 3485.1 | 3411.9 | 3517.7 | 3644.7 | 3692.8 |
| 12.5° | 2193.7 | 2130.2 | 2164.4 | 2297.9 | 2319.1 |
| 15°   | 1182.3 | 1140.0 | 1154.7 | 1223.9 | 1246.7 |
| 17.5° | 603.4  | 565.1  | 557.0  | 600.9  | 605.8  |
| 20°   | 302.1  | 293.1  | 284.2  | 288.3  | 285.0  |
| 22.5° | 140.1  | 152.3  | 150.6  | 142.5  | 152.3  |
| 25°   | 63.5   | 72.5   | 76.5   | 79.8   | 87.1   |
| 27.5° | 39.1   | 37.5   | 43.2   | 46.4   | 47.2   |
| 30°   | 26.1   | 25.2   | 26.1   | 26.9   | 26.9   |
| 32.5° | 18.7   | 17.9   | 17.1   | 17.1   | 17.9   |
| 35°   | 13.8   | 13.8   | 12.2   | 13.0   | 13.0   |
| 37.5° | 9.8    | 9.8    | 9.0    | 9.8    | 9.8    |
| 40°   | 5.7    | 6.5    | 6.5    | 6.5    | 7.3    |
| 42.5° | 3.3    | 4.1    | 4.1    | 4.1    | 4.1    |
| 45°   | 1.6    | 2.4    | 2.4    | 2.4    | 2.4    |
| 47.5° | 0.8    | 0.8    | 0.8    | 1.6    | 1.6    |
| 50°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 52.5° | 0.8    | 0.0    | 0.0    | 0.0    | 0.8    |
| 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)