

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: P1310202

Luminaire Tested: P3SQAS13R159040DE010 E3SQPHL1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310202  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS13R159040DE010 E3SQPHL1MB  
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 90CRI , E3SQPHL1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

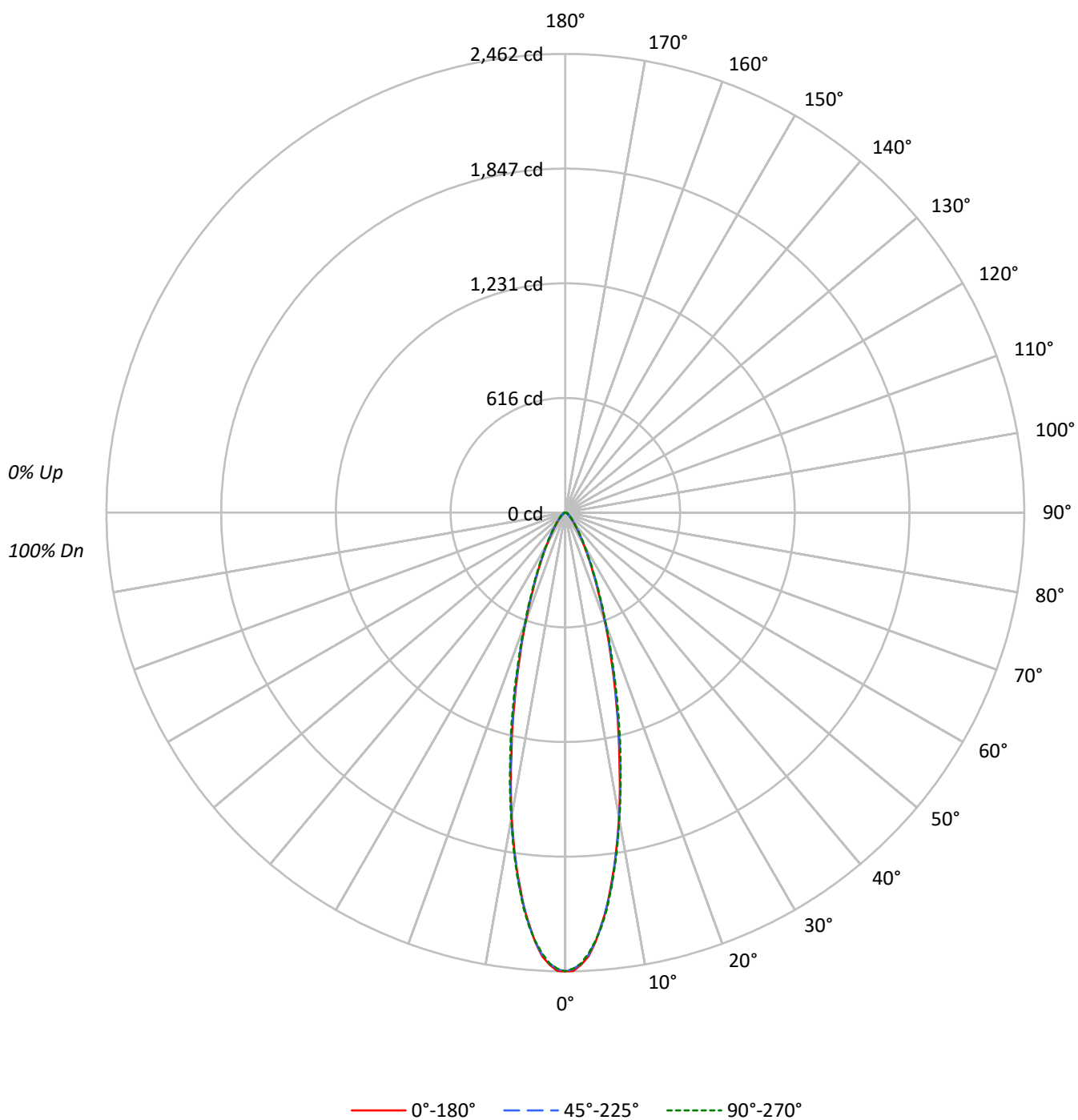
Lumens per Lamp: N/A  
Luminaire Lumens: 814.0 lumens  
Efficiency: N/A  
Efficacy: 55.8 lumens/watt  
Spacing Criteria (0/90/45): 0.45 / 0.46 / 0.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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   | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 |  | 101 | 100 | 99  |  | 98  |
| 2   | 109 | 104 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 97  | 94  |  | 97  | 94  | 92  |  | 94  |
| 3   | 104 | 98  | 94  | 90  | 102 | 97  | 93  | 89  | 94  | 91  | 88  |  | 92  | 89  | 87  |  | 90  |
| 4   | 100 | 93  | 88  | 84  | 98  | 92  | 87  | 84  | 90  | 86  | 83  |  | 88  | 85  | 82  |  | 86  |
| 5   | 96  | 88  | 83  | 79  | 94  | 87  | 83  | 79  | 86  | 82  | 78  |  | 84  | 80  | 78  |  | 83  |
| 6   | 92  | 84  | 79  | 75  | 91  | 83  | 78  | 75  | 82  | 78  | 74  |  | 81  | 77  | 74  |  | 79  |
| 7   | 88  | 80  | 75  | 71  | 87  | 80  | 75  | 71  | 79  | 74  | 71  |  | 77  | 74  | 71  |  | 76  |
| 8   | 85  | 77  | 72  | 68  | 84  | 76  | 72  | 68  | 75  | 71  | 68  |  | 74  | 70  | 68  |  | 74  |
| 9   | 82  | 74  | 69  | 65  | 81  | 73  | 69  | 65  | 73  | 68  | 65  |  | 72  | 68  | 65  |  | 71  |
| 10  | 79  | 71  | 66  | 63  | 78  | 71  | 66  | 63  | 70  | 66  | 63  |  | 69  | 65  | 62  |  | 69  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 423926 | 423926 | 423926 |
| 5°  | 383985 | 384711 | 385247 |
| 10° | 289898 | 290632 | 292101 |
| 15° | 188033 | 190083 | 193810 |
| 20° | 113209 | 114547 | 116087 |
| 25° | 66148  | 67535  | 68524  |
| 30° | 38878  | 40111  | 40748  |
| 35° | 23947  | 24830  | 25271  |
| 40° | 15737  | 16210  | 16457  |
| 45° | 10936  | 11204  | 11447  |
| 50° | 8118   | 8413   | 8681   |
| 55° | 6576   | 6906   | 6906   |
| 60° | 5752   | 5752   | 5752   |
| 65° | 5094   | 5094   | 5094   |
| 70° | 4230   | 4733   | 4733   |
| 75° | 4192   | 4192   | 4192   |
| 80° | 3075   | 4166   | 4166   |
| 85° | 1976   | 1976   | 1976   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 11447 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 193.9  | 23.8      |
| 10°-20°   | 296.5  | 36.4      |
| 20°-30°   | 168.5  | 20.7      |
| 30°-40°   | 76.9   | 9.4       |
| 40°-50°   | 36.9   | 4.5       |
| 50°-60°   | 20.6   | 2.5       |
| 60°-70°   | 12.6   | 1.5       |
| 70°-80°   | 6.7    | 0.8       |
| 80°-90°   | 1.4    | 0.2       |
| 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°    | 658.9  | 80.9      |
| 0°-40°    | 735.7  | 90.4      |
| 0°-60°    | 793.2  | 97.5      |
| 0°-90°    | 814.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 814.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2462 | 2462  | 2462 | 2462  | 2462 |      |
| 5°  | 2221 | 2220  | 2225 | 2225  | 2228 | 194  |
| 15° | 1055 | 1060  | 1066 | 1081  | 1087 | 293  |
| 25° | 348  | 348   | 355  | 358   | 361  | 165  |
| 35° | 114  | 116   | 118  | 120   | 120  | 75   |
| 45° | 45   | 45    | 46   | 47    | 47   | 36   |
| 55° | 22   | 22    | 23   | 23    | 23   | 20   |
| 65° | 12   | 12    | 12   | 12    | 12   | 12   |
| 75° | 6    | 6     | 6    | 6     | 6    | 6    |
| 85° | 1    | 1     | 1    | 1     | 1    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2461.5 | 2461.5 | 2461.5 | 2461.5 | 2461.5 |
| 1°    | 2459.4 | 2453.1 | 2451.0 | 2450.0 | 2447.9 |
| 2°    | 2428.0 | 2422.8 | 2421.8 | 2421.8 | 2420.7 |
| 3°    | 2384.1 | 2374.7 | 2375.8 | 2372.6 | 2369.5 |
| 4°    | 2309.9 | 2305.7 | 2307.8 | 2309.9 | 2305.7 |
| 5°    | 2221.1 | 2220.0 | 2225.3 | 2225.3 | 2228.4 |
| 6°    | 2129.1 | 2128.1 | 2124.9 | 2133.3 | 2137.5 |
| 7°    | 2012.0 | 2018.3 | 2026.7 | 2022.5 | 2025.6 |
| 8°    | 1905.4 | 1898.1 | 1901.2 | 1911.7 | 1912.7 |
| 9°    | 1780.0 | 1774.8 | 1788.4 | 1792.5 | 1793.6 |
| 10°   | 1657.7 | 1662.9 | 1661.9 | 1676.5 | 1670.3 |
| 12.5° | 1338.9 | 1347.3 | 1356.7 | 1363.0 | 1369.2 |
| 15°   | 1054.6 | 1059.8 | 1066.1 | 1080.8 | 1087.0 |
| 17.5° | 811.1  | 817.4  | 823.6  | 836.2  | 838.3  |
| 20°   | 617.7  | 620.9  | 625.0  | 636.5  | 633.4  |
| 22.5° | 462.0  | 467.2  | 471.4  | 476.6  | 479.8  |
| 25°   | 348.1  | 348.1  | 355.4  | 358.5  | 360.6  |
| 27.5° | 259.2  | 261.3  | 266.5  | 270.7  | 269.7  |
| 30°   | 195.5  | 198.6  | 201.7  | 203.8  | 204.9  |
| 32.5° | 150.5  | 150.5  | 153.6  | 156.8  | 157.8  |
| 35°   | 113.9  | 116.0  | 118.1  | 120.2  | 120.2  |
| 37.5° | 88.8   | 89.9   | 92.0   | 93.0   | 93.0   |
| 40°   | 70.0   | 70.0   | 72.1   | 73.2   | 73.2   |
| 42.5° | 55.4   | 56.4   | 57.5   | 58.5   | 58.5   |
| 45°   | 44.9   | 44.9   | 46.0   | 47.0   | 47.0   |
| 47.5° | 36.6   | 36.6   | 37.6   | 38.7   | 38.7   |
| 50°   | 30.3   | 31.4   | 31.4   | 32.4   | 32.4   |
| 52.5° | 26.1   | 26.1   | 26.1   | 27.2   | 27.2   |
| 55°   | 21.9   | 21.9   | 23.0   | 23.0   | 23.0   |
| 57.5° | 18.8   | 18.8   | 18.8   | 19.9   | 19.9   |
| 60°   | 16.7   | 16.7   | 16.7   | 16.7   | 16.7   |
| 62.5° | 14.6   | 14.6   | 14.6   | 14.6   | 14.6   |
| 65°   | 12.5   | 12.5   | 12.5   | 12.5   | 12.5   |
| 67.5° | 10.5   | 10.5   | 10.5   | 11.5   | 11.5   |
| 70°   | 8.4    | 9.4    | 9.4    | 9.4    | 9.4    |
| 72.5° | 7.3    | 7.3    | 7.3    | 7.3    | 7.3    |
| 75°   | 6.3    | 6.3    | 6.3    | 6.3    | 6.3    |
| 77.5° | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    |
| 80°   | 3.1    | 4.2    | 4.2    | 4.2    | 4.2    |
| 82.5° | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 85°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)