

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: P1310121

Luminaire Tested: P3SQAS09R459040DE010 E3SQCD1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310121  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-44)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS09R459040DE010 E3SQCD1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 90CRI , E3SQCD1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

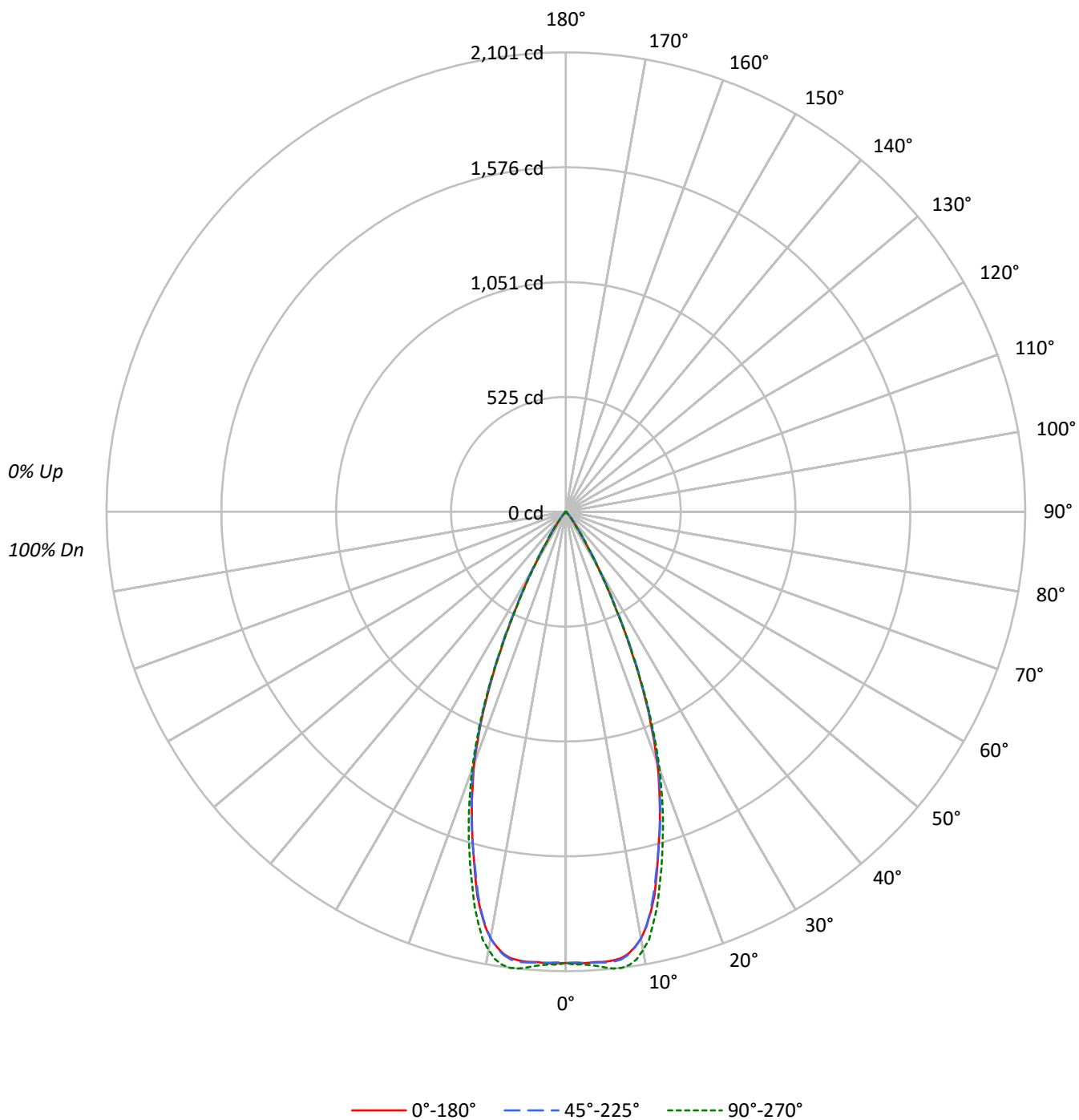
Lumens per Lamp: N/A  
Luminaire Lumens: 1068.1 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Spacing Criteria (0/90/45): 0.72 / 0.73 / 0.67  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 |  | 102 | 101 | 100 |  | 99  |
| 2   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  |  | 98  | 96  | 94  |  | 95  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 91  |  | 94  | 91  | 89  |  | 92  |
| 4   | 101 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 88  | 86  |  | 90  | 87  | 85  |  | 88  |
| 5   | 98  | 91  | 86  | 82  | 96  | 90  | 85  | 82  | 88  | 84  | 81  |  | 86  | 83  | 81  |  | 85  |
| 6   | 94  | 86  | 82  | 78  | 93  | 86  | 81  | 78  | 84  | 80  | 77  |  | 83  | 79  | 77  |  | 82  |
| 7   | 90  | 83  | 78  | 74  | 89  | 82  | 77  | 74  | 81  | 77  | 74  |  | 80  | 76  | 73  |  | 79  |
| 8   | 87  | 79  | 74  | 71  | 86  | 79  | 74  | 71  | 78  | 73  | 70  |  | 77  | 73  | 70  |  | 76  |
| 9   | 84  | 76  | 71  | 68  | 83  | 75  | 71  | 68  | 75  | 70  | 67  |  | 74  | 70  | 67  |  | 73  |
| 10  | 81  | 73  | 68  | 65  | 80  | 72  | 68  | 65  | 72  | 67  | 65  |  | 71  | 67  | 64  |  | 70  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 355381 | 355381 | 355381 |
| 5°  | 357154 | 357828 | 361908 |
| 10° | 346541 | 346279 | 355915 |
| 15° | 290430 | 290287 | 300967 |
| 20° | 224512 | 226822 | 230011 |
| 25° | 137636 | 140487 | 137940 |
| 30° | 59023  | 61688  | 57154  |
| 35° | 18544  | 22349  | 18039  |
| 40° | 6362   | 8139   | 6205   |
| 45° | 1145   | 3459   | 950    |
| 50° | 643    | 1259   | 643    |
| 55° | 721    | 721    | 721    |
| 60° | 551    | 551    | 551    |
| 65° | 652    | 652    | 652    |
| 70° | 403    | 403    | 403    |
| 75° | 532    | 532    | 532    |
| 80° | 793    | 793    | 793    |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 3459 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 196.1  | 18.4      |
| 10°-20°   | 453.2  | 42.4      |
| 20°-30°   | 331.8  | 31.1      |
| 30°-40°   | 73.3   | 6.9       |
| 40°-50°   | 9.0    | 0.8       |
| 50°-60°   | 2.1    | 0.2       |
| 60°-70°   | 1.5    | 0.1       |
| 70°-80°   | 0.9    | 0.1       |
| 80°-90°   | 0.1    | 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°    | 981.1  | 91.9      |
| 0°-40°    | 1054.4 | 98.7      |
| 0°-60°    | 1065.6 | 99.8      |
| 0°-90°    | 1068.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1068.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2064 | 2064  | 2064 | 2064  | 2064 |      |
| 5°  | 2066 | 2064  | 2070 | 2085  | 2093 | 195  |
| 15° | 1629 | 1620  | 1628 | 1668  | 1688 | 449  |
| 25° | 724  | 724   | 739  | 734   | 726  | 328  |
| 35° | 88   | 93    | 106  | 93    | 86   | 70   |
| 45° | 5    | 8     | 14   | 8     | 4    | 6    |
| 55° | 2    | 2     | 2    | 2     | 2    | 2    |
| 65° | 2    | 2     | 2    | 2     | 2    | 1    |
| 75° | 1    | 1     | 1    | 1     | 1    | 1    |
| 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°    | 2063.5 | 2063.5 | 2063.5 | 2063.5 | 2063.5 |
| 1°    | 2065.1 | 2061.9 | 2061.2 | 2066.7 | 2070.6 |
| 2°    | 2066.7 | 2062.7 | 2063.5 | 2069.0 | 2071.4 |
| 3°    | 2065.1 | 2061.2 | 2065.1 | 2073.0 | 2076.1 |
| 4°    | 2064.3 | 2062.7 | 2066.7 | 2077.7 | 2083.2 |
| 5°    | 2065.9 | 2064.3 | 2069.8 | 2084.8 | 2093.4 |
| 6°    | 2063.5 | 2061.2 | 2069.0 | 2087.9 | 2100.5 |
| 7°    | 2058.0 | 2055.6 | 2064.3 | 2087.1 | 2101.3 |
| 8°    | 2043.1 | 2038.3 | 2047.0 | 2075.3 | 2092.7 |
| 9°    | 2016.3 | 2010.0 | 2018.6 | 2051.7 | 2072.2 |
| 10°   | 1981.6 | 1974.6 | 1980.1 | 2012.3 | 2035.2 |
| 11°   | 1932.0 | 1922.6 | 1928.9 | 1963.5 | 1993.5 |
| 12°   | 1869.1 | 1855.7 | 1863.5 | 1902.9 | 1924.2 |
| 13°   | 1800.6 | 1788.0 | 1789.5 | 1825.0 | 1854.9 |
| 14°   | 1715.5 | 1699.0 | 1706.1 | 1743.1 | 1766.7 |
| 15°   | 1628.9 | 1620.3 | 1628.1 | 1667.5 | 1688.0 |
| 17.5° | 1430.5 | 1429.7 | 1436.8 | 1466.0 | 1477.0 |
| 20°   | 1225.0 | 1227.4 | 1237.6 | 1253.4 | 1255.0 |
| 22.5° | 981.8  | 982.6  | 993.6  | 1004.6 | 1002.2 |
| 25°   | 724.3  | 723.5  | 739.3  | 733.8  | 725.9  |
| 27.5° | 480.3  | 483.4  | 497.6  | 487.3  | 479.5  |
| 30°   | 296.8  | 303.1  | 310.2  | 297.6  | 287.4  |
| 32.5° | 160.6  | 170.8  | 181.1  | 170.1  | 159.8  |
| 35°   | 88.2   | 92.9   | 106.3  | 92.9   | 85.8   |
| 37.5° | 51.2   | 53.5   | 62.2   | 53.5   | 48.8   |
| 40°   | 28.3   | 32.3   | 36.2   | 32.3   | 27.6   |
| 42.5° | 11.8   | 18.1   | 22.0   | 18.1   | 11.8   |
| 45°   | 4.7    | 7.9    | 14.2   | 7.9    | 3.9    |
| 47.5° | 2.4    | 3.1    | 8.7    | 3.1    | 2.4    |
| 50°   | 2.4    | 2.4    | 4.7    | 2.4    | 2.4    |
| 52.5° | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    |
| 55°   | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    |
| 57.5° | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    |
| 60°   | 1.6    | 1.6    | 1.6    | 2.4    | 1.6    |
| 62.5° | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 65°   | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 67.5° | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 70°   | 0.8    | 0.8    | 0.8    | 1.6    | 0.8    |
| 72.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 75°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 77.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 80°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 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    |



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CANDELA DISTRIBUTION (continued):

|     | 0°  | 22.5° | 45° | 67.5° | 90° |
|-----|-----|-------|-----|-------|-----|
| 90° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |

(END OF REPORT)