

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: P1314605

Luminaire Tested: P3SQAS17R659735DE010 E3SQCA451MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1314605  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS17R659735DE010 E3SQCA451MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 97CRI , E3SQCA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

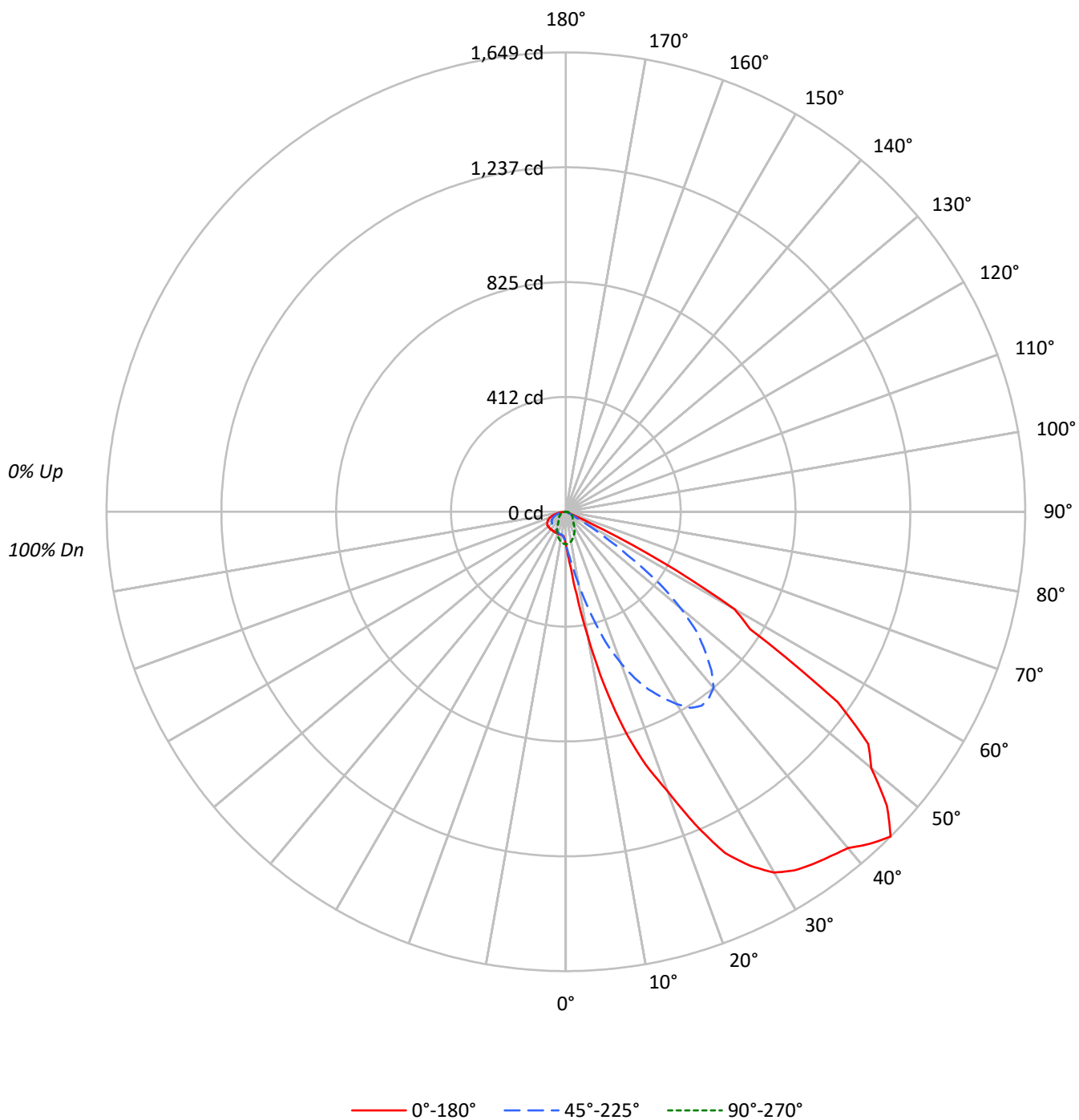
Lumens per Lamp: N/A  
Luminaire Lumens: 1196.0 lumens  
Efficiency: N/A  
Efficacy: 56.4 lumens/watt  
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.2  
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

TEST NUMBER: P1314605

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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  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 94  | 91  | 92  | 90  | 89  | 87  |    |    |
| 2   | 101 | 93  | 87  | 82  | 98  | 92  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 79  | 76  | 74  |    |    |
| 3   | 92  | 82  | 75  | 69  | 90  | 81  | 74  | 68  | 78  | 72  | 67  | 75  | 70  | 66  | 73  | 68  | 64  | 62  |    |    |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 57  | 67  | 61  | 56  | 64  | 59  | 55  | 53  |    |    |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |    |    |
| 6   | 71  | 57  | 49  | 42  | 69  | 57  | 48  | 42  | 55  | 47  | 42  | 53  | 46  | 41  | 51  | 46  | 41  | 39  |    |    |
| 7   | 65  | 52  | 43  | 37  | 63  | 51  | 42  | 36  | 49  | 42  | 36  | 48  | 41  | 36  | 46  | 40  | 36  | 34  |    |    |
| 8   | 60  | 46  | 38  | 32  | 58  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |    |    |
| 9   | 56  | 42  | 34  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |
| 10  | 52  | 38  | 30  | 25  | 50  | 38  | 30  | 25  | 37  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 24  | 23  |    |    |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 20029  | 20029  | 20029 | 20029 | 20029 |
| 5°  | 35043  | 28612  | 19691 | 15957 | 15335 |
| 10° | 79273  | 46133  | 18869 | 14672 | 14882 |
| 15° | 144118 | 74190  | 17527 | 14745 | 15173 |
| 20° | 195390 | 105933 | 15817 | 14717 | 15377 |
| 25° | 256821 | 133760 | 13910 | 14347 | 15715 |
| 30° | 297384 | 158595 | 11932 | 14318 | 16446 |
| 35° | 324744 | 178750 | 10092 | 14633 | 17387 |
| 40° | 354250 | 185477 | 8903  | 15378 | 18593 |
| 45° | 401605 | 172026 | 8476  | 16367 | 20142 |
| 50° | 383623 | 143611 | 8359  | 17362 | 22158 |
| 55° | 357551 | 80650  | 8648  | 18736 | 24471 |
| 60° | 240802 | 17360  | 8680  | 19840 | 26419 |
| 65° | 37124  | 4401   | 8313  | 20539 | 28852 |
| 70° | 4230   | 4230   | 7855  | 21149 | 30817 |
| 75° | 3993   | 3993   | 7187  | 20761 | 31142 |
| 80° | 3570   | 4761   | 7141  | 19042 | 30944 |
| 85° | 2371   | 4742   | 7114  | 18970 | 28455 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 401605 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 14.1   | 1.2       |
| 10°-20°   | 76.0   | 6.4       |
| 20°-30°   | 178.7  | 14.9      |
| 30°-40°   | 270.0  | 22.6      |
| 40°-50°   | 310.3  | 25.9      |
| 50°-60°   | 246.4  | 20.6      |
| 60°-70°   | 73.8   | 6.2       |
| 70°-80°   | 20.1   | 1.7       |
| 80°-90°   | 6.7    | 0.6       |
| 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°    | 268.8  | 22.5      |
| 0°-40°    | 538.8  | 45.0      |
| 0°-60°    | 1095.4 | 91.6      |
| 0°-90°    | 1196.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1196.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 116  | 116 | 116 | 116  | 116  |      |
| 5°  | 203  | 166 | 114 | 92   | 89   | 27   |
| 15° | 808  | 416 | 98  | 83   | 85   | 233  |
| 25° | 1352 | 704 | 73  | 76   | 83   | 617  |
| 35° | 1545 | 850 | 48  | 70   | 83   | 969  |
| 45° | 1649 | 706 | 35  | 67   | 83   | 1225 |
| 55° | 1191 | 269 | 29  | 62   | 82   | 981  |
| 65° | 91   | 11  | 20  | 50   | 71   | 204  |
| 75° | 6    | 6   | 11  | 31   | 47   | 6    |
| 85° | 1    | 2   | 4   | 10   | 14   | 2    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 45°   | 67.5° | 90°   | 112.5° | 135°  |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|-------|
| 0°    | 116.3  | 116.3  | 116.3  | 116.3  | 116.3  | 116.3  | 116.3 | 116.3 | 116.3 | 116.3  | 116.3 |
| 2.5°  | 147.5  | 148.7  | 147.5  | 147.5  | 146.3  | 145.1  | 136.7 | 127.1 | 116.3 | 107.9  | 101.9 |
| 5°    | 202.7  | 203.9  | 200.3  | 200.3  | 197.9  | 194.3  | 165.5 | 137.9 | 113.9 | 100.7  | 92.3  |
| 7.5°  | 299.8  | 304.6  | 298.6  | 291.4  | 278.2  | 275.8  | 206.3 | 148.7 | 111.5 | 93.5   | 86.3  |
| 10°   | 453.3  | 449.7  | 443.7  | 429.3  | 406.5  | 395.7  | 263.8 | 159.5 | 107.9 | 88.7   | 83.9  |
| 12.5° | 639.2  | 629.6  | 622.4  | 596.0  | 564.8  | 546.8  | 335.8 | 169.1 | 103.1 | 83.9   | 82.7  |
| 15°   | 808.3  | 801.1  | 784.3  | 759.1  | 720.7  | 706.3  | 416.1 | 175.1 | 98.3  | 80.3   | 82.7  |
| 17.5° | 951.0  | 943.8  | 934.2  | 909.0  | 869.4  | 847.8  | 506.1 | 178.7 | 92.3  | 77.9   | 81.5  |
| 20°   | 1066.1 | 1061.3 | 1048.1 | 1027.7 | 988.1  | 967.7  | 578.0 | 178.7 | 86.3  | 75.5   | 80.3  |
| 22.5° | 1214.8 | 1204.0 | 1187.2 | 1157.2 | 1108.0 | 1076.9 | 646.4 | 175.1 | 80.3  | 73.2   | 77.9  |
| 25°   | 1351.5 | 1344.3 | 1322.7 | 1286.7 | 1234.0 | 1202.8 | 703.9 | 167.9 | 73.2  | 69.6   | 75.5  |
| 27.5° | 1433.0 | 1428.2 | 1407.8 | 1370.7 | 1311.9 | 1287.9 | 751.9 | 157.1 | 66.0  | 66.0   | 74.3  |
| 30°   | 1495.4 | 1485.8 | 1465.4 | 1429.4 | 1369.5 | 1340.7 | 797.5 | 143.9 | 60.0  | 62.4   | 72.0  |
| 32.5° | 1526.6 | 1523.0 | 1505.0 | 1473.8 | 1415.0 | 1382.7 | 834.6 | 127.1 | 52.8  | 60.0   | 70.8  |
| 35°   | 1544.6 | 1541.0 | 1526.6 | 1496.6 | 1441.4 | 1410.2 | 850.2 | 111.5 | 48.0  | 57.6   | 69.6  |
| 37.5° | 1558.9 | 1555.3 | 1537.4 | 1507.4 | 1452.2 | 1419.8 | 843.0 | 94.7  | 43.2  | 55.2   | 68.4  |
| 40°   | 1575.7 | 1562.5 | 1535.0 | 1505.0 | 1454.6 | 1423.4 | 825.0 | 79.1  | 39.6  | 54.0   | 68.4  |
| 42.5° | 1616.5 | 1570.9 | 1527.8 | 1500.2 | 1452.2 | 1416.2 | 773.5 | 62.4  | 36.0  | 51.6   | 67.2  |
| 45°   | 1648.9 | 1568.5 | 1513.4 | 1491.8 | 1442.6 | 1401.9 | 706.3 | 45.6  | 34.8  | 50.4   | 67.2  |
| 47.5° | 1563.7 | 1514.6 | 1489.4 | 1477.4 | 1424.6 | 1380.3 | 636.8 | 31.2  | 33.6  | 49.2   | 66.0  |
| 50°   | 1431.8 | 1425.8 | 1416.2 | 1417.4 | 1369.5 | 1333.5 | 536.0 | 21.6  | 31.2  | 48.0   | 64.8  |
| 52.5° | 1368.3 | 1361.1 | 1344.3 | 1332.3 | 1284.3 | 1253.2 | 424.5 | 16.8  | 30.0  | 46.8   | 63.6  |
| 55°   | 1190.8 | 1195.6 | 1177.6 | 1184.8 | 1170.4 | 1154.8 | 268.6 | 15.6  | 28.8  | 44.4   | 62.4  |
| 57.5° | 784.3  | 808.3  | 850.2  | 900.6  | 946.2  | 977.3  | 145.1 | 15.6  | 26.4  | 43.2   | 60.0  |
| 60°   | 699.1  | 693.1  | 691.9  | 701.5  | 721.9  | 738.7  | 50.4  | 14.4  | 25.2  | 39.6   | 57.6  |
| 62.5° | 382.5  | 380.1  | 416.1  | 477.3  | 513.3  | 516.8  | 14.4  | 14.4  | 22.8  | 37.2   | 54.0  |
| 65°   | 91.1   | 94.7   | 105.5  | 131.9  | 155.9  | 171.5  | 10.8  | 13.2  | 20.4  | 34.8   | 50.4  |
| 67.5° | 14.4   | 15.6   | 15.6   | 19.2   | 21.6   | 21.6   | 9.6   | 12.0  | 18.0  | 31.2   | 46.8  |
| 70°   | 8.4    | 8.4    | 8.4    | 8.4    | 8.4    | 8.4    | 8.4   | 10.8  | 15.6  | 27.6   | 42.0  |
| 72.5° | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 8.4   | 9.6   | 13.2  | 24.0   | 36.0  |
| 75°   | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0   | 8.4   | 10.8  | 19.2   | 31.2  |
| 77.5° | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    | 4.8    | 6.0   | 7.2   | 9.6   | 15.6   | 25.2  |
| 80°   | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 4.8   | 6.0   | 7.2   | 12.0   | 19.2  |
| 82.5° | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 3.6   | 4.8   | 6.0   | 9.6    | 14.4  |
| 85°   | 1.2    | 1.2    | 1.2    | 1.2    | 2.4    | 2.4    | 2.4   | 3.6   | 3.6   | 6.0    | 9.6   |
| 87.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 2.4   | 2.4   | 2.4   | 3.6    | 4.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   |

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**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180°  |
|-------|--------|-------|
| 0°    | 116.3  | 116.3 |
| 2.5°  | 98.3   | 97.1  |
| 5°    | 88.7   | 88.7  |
| 7.5°  | 85.1   | 85.1  |
| 10°   | 83.9   | 85.1  |
| 12.5° | 83.9   | 85.1  |
| 15°   | 83.9   | 85.1  |
| 17.5° | 83.9   | 85.1  |
| 20°   | 82.7   | 83.9  |
| 22.5° | 81.5   | 82.7  |
| 25°   | 80.3   | 82.7  |
| 27.5° | 79.1   | 82.7  |
| 30°   | 79.1   | 82.7  |
| 32.5° | 79.1   | 82.7  |
| 35°   | 77.9   | 82.7  |
| 37.5° | 77.9   | 82.7  |
| 40°   | 77.9   | 82.7  |
| 42.5° | 77.9   | 82.7  |
| 45°   | 77.9   | 82.7  |
| 47.5° | 77.9   | 82.7  |
| 50°   | 77.9   | 82.7  |
| 52.5° | 76.7   | 82.7  |
| 55°   | 76.7   | 81.5  |
| 57.5° | 74.3   | 79.1  |
| 60°   | 72.0   | 76.7  |
| 62.5° | 69.6   | 74.3  |
| 65°   | 66.0   | 70.8  |
| 67.5° | 62.4   | 66.0  |
| 70°   | 56.4   | 61.2  |
| 72.5° | 50.4   | 54.0  |
| 75°   | 43.2   | 46.8  |
| 77.5° | 36.0   | 39.6  |
| 80°   | 28.8   | 31.2  |
| 82.5° | 20.4   | 22.8  |
| 85°   | 13.2   | 14.4  |
| 87.5° | 6.0    | 6.0   |
| 90°   | 0.0    | 0.0   |

(END OF REPORT)