

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: P1307123

Luminaire Tested: P3SQAS17R659027DE010 E3SQCA451MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307123  
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: P3SQAS17R659027DE010 E3SQCA451MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 90CRI , E3SQCA451MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

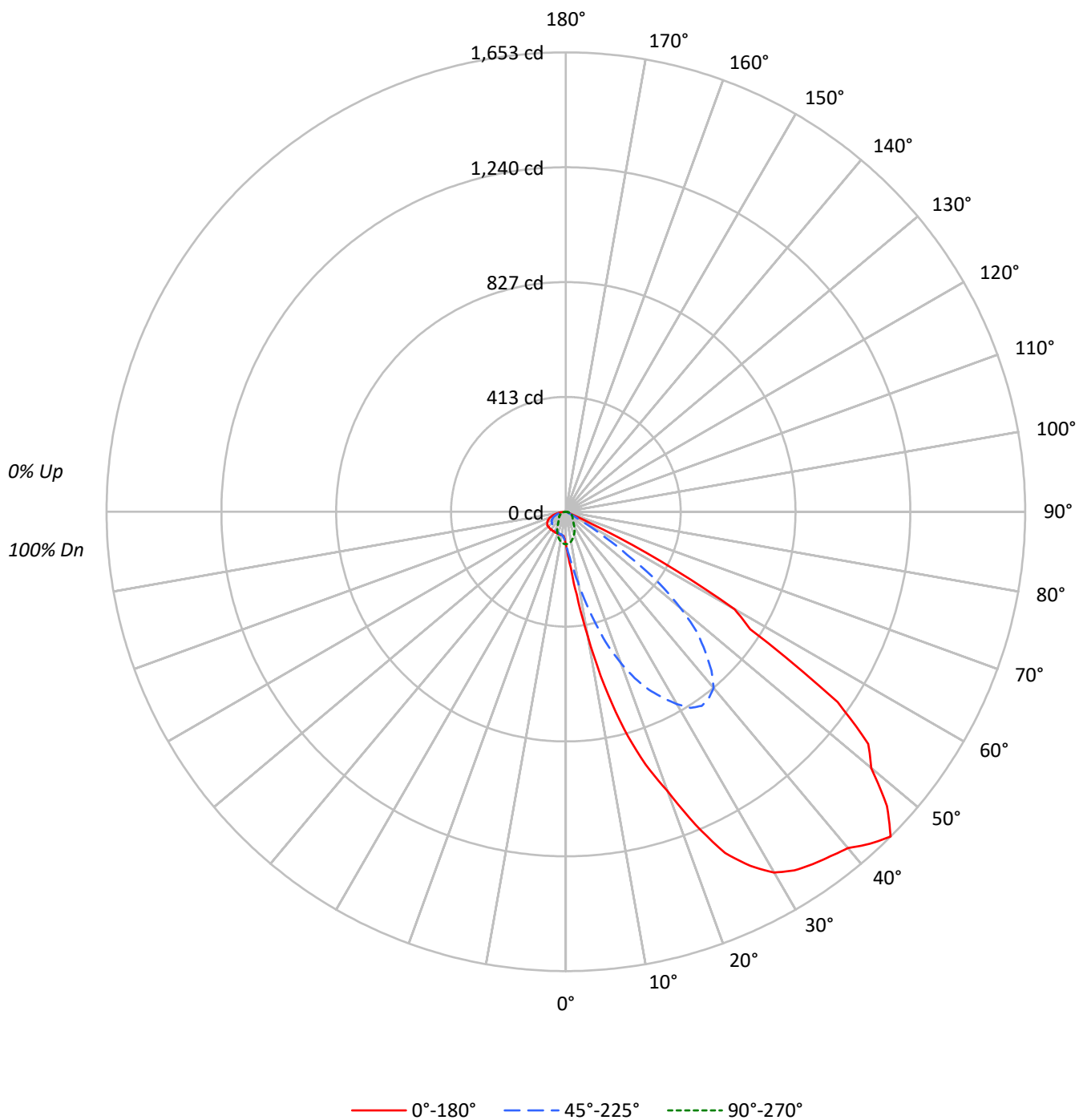
Lumens per Lamp: N/A  
Luminaire Lumens: 1199.0 lumens  
Efficiency: N/A  
Efficacy: 56.6 lumens/watt  
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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: P1307123

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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  |     |    | 0  |
| 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  | 65  | 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°  | 20081  | 20081  | 20081 | 20081 | 20081 |
| 5°  | 35129  | 28681  | 19743 | 16009 | 15386 |
| 10° | 79465  | 46256  | 18922 | 14725 | 14935 |
| 15° | 144475 | 74386  | 17580 | 14799 | 15227 |
| 20° | 195885 | 106208 | 15872 | 14754 | 15432 |
| 25° | 257467 | 134102 | 13929 | 14385 | 15772 |
| 30° | 298119 | 158993 | 11952 | 14338 | 16506 |
| 35° | 325543 | 179213 | 10113 | 14654 | 17450 |
| 40° | 355149 | 185949 | 8925  | 15400 | 18660 |
| 45° | 402604 | 172465 | 8500  | 16392 | 20215 |
| 50° | 384588 | 143986 | 8386  | 17389 | 22238 |
| 55° | 358452 | 80860  | 8678  | 18766 | 24531 |
| 60° | 241422 | 17394  | 8680  | 19874 | 26488 |
| 65° | 37247  | 4401   | 8313  | 20579 | 28893 |
| 70° | 4230   | 4230   | 7855  | 21199 | 30867 |
| 75° | 3993   | 3993   | 7187  | 20828 | 31208 |
| 80° | 3570   | 4761   | 7141  | 19042 | 31043 |
| 85° | 2371   | 4742   | 7114  | 18970 | 28455 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 402604 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 14.1   | 1.2       |
| 10°-20°   | 76.2   | 6.4       |
| 20°-30°   | 179.1  | 14.9      |
| 30°-40°   | 270.6  | 22.6      |
| 40°-50°   | 311.1  | 25.9      |
| 50°-60°   | 247.0  | 20.6      |
| 60°-70°   | 74.0   | 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°    | 269.5  | 22.5      |
| 0°-40°    | 540.1  | 45.0      |
| 0°-60°    | 1098.2 | 91.6      |
| 0°-90°    | 1199.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1199.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 117  | 117 | 117 | 117  | 117  |      |
| 5°  | 203  | 166 | 114 | 93   | 89   | 27   |
| 15° | 810  | 417 | 99  | 83   | 85   | 233  |
| 25° | 1355 | 706 | 73  | 76   | 83   | 618  |
| 35° | 1548 | 852 | 48  | 70   | 83   | 972  |
| 45° | 1653 | 708 | 35  | 67   | 83   | 1228 |
| 55° | 1194 | 269 | 29  | 62   | 82   | 984  |
| 65° | 91   | 11  | 20  | 50   | 71   | 205  |
| 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°    | 116.6  | 116.6  | 116.6  | 116.6  | 116.6  | 116.6  | 116.6 | 116.6 | 116.6 | 116.6  | 116.6 |
| 2.5°  | 147.9  | 149.1  | 147.9  | 147.9  | 146.7  | 145.5  | 137.1 | 127.4 | 116.6 | 108.2  | 102.2 |
| 5°    | 203.2  | 204.4  | 200.8  | 200.8  | 198.4  | 194.8  | 165.9 | 138.3 | 114.2 | 101.0  | 92.6  |
| 7.5°  | 300.5  | 305.4  | 299.3  | 292.1  | 278.9  | 276.5  | 206.8 | 149.1 | 111.8 | 93.8   | 86.6  |
| 10°   | 454.4  | 450.8  | 444.8  | 430.4  | 407.5  | 396.7  | 264.5 | 159.9 | 108.2 | 89.0   | 84.2  |
| 12.5° | 640.8  | 631.2  | 623.9  | 597.5  | 566.2  | 548.2  | 336.6 | 169.5 | 103.4 | 84.2   | 83.0  |
| 15°   | 810.3  | 803.1  | 786.2  | 761.0  | 722.5  | 708.1  | 417.2 | 175.5 | 98.6  | 80.5   | 83.0  |
| 17.5° | 953.3  | 946.1  | 936.5  | 911.3  | 871.6  | 850.0  | 507.3 | 179.1 | 92.6  | 78.1   | 81.7  |
| 20°   | 1068.8 | 1063.9 | 1050.7 | 1030.3 | 990.6  | 970.2  | 579.5 | 179.1 | 86.6  | 75.7   | 80.5  |
| 22.5° | 1217.8 | 1207.0 | 1190.2 | 1160.1 | 1110.8 | 1079.6 | 648.0 | 175.5 | 80.5  | 73.3   | 78.1  |
| 25°   | 1354.9 | 1347.7 | 1326.0 | 1290.0 | 1237.1 | 1205.8 | 705.7 | 168.3 | 73.3  | 69.7   | 75.7  |
| 27.5° | 1436.6 | 1431.8 | 1411.4 | 1374.1 | 1315.2 | 1291.2 | 753.8 | 157.5 | 66.1  | 66.1   | 74.5  |
| 30°   | 1499.1 | 1489.5 | 1469.1 | 1433.0 | 1372.9 | 1344.1 | 799.5 | 144.3 | 60.1  | 62.5   | 72.1  |
| 32.5° | 1530.4 | 1526.8 | 1508.8 | 1477.5 | 1418.6 | 1386.1 | 836.7 | 127.4 | 52.9  | 60.1   | 70.9  |
| 35°   | 1548.4 | 1544.8 | 1530.4 | 1500.3 | 1445.0 | 1413.8 | 852.4 | 111.8 | 48.1  | 57.7   | 69.7  |
| 37.5° | 1562.9 | 1559.2 | 1541.2 | 1511.2 | 1455.9 | 1423.4 | 845.1 | 95.0  | 43.3  | 55.3   | 68.5  |
| 40°   | 1579.7 | 1566.5 | 1538.8 | 1508.8 | 1458.3 | 1427.0 | 827.1 | 79.3  | 39.7  | 54.1   | 68.5  |
| 42.5° | 1620.6 | 1574.9 | 1531.6 | 1503.9 | 1455.9 | 1419.8 | 775.4 | 62.5  | 36.1  | 51.7   | 67.3  |
| 45°   | 1653.0 | 1572.5 | 1517.2 | 1495.5 | 1446.2 | 1405.4 | 708.1 | 45.7  | 34.9  | 50.5   | 67.3  |
| 47.5° | 1567.7 | 1518.4 | 1493.1 | 1481.1 | 1428.2 | 1383.7 | 638.4 | 31.3  | 33.7  | 49.3   | 66.1  |
| 50°   | 1435.4 | 1429.4 | 1419.8 | 1421.0 | 1372.9 | 1336.8 | 537.4 | 21.6  | 31.3  | 48.1   | 64.9  |
| 52.5° | 1371.7 | 1364.5 | 1347.7 | 1335.6 | 1287.6 | 1256.3 | 425.6 | 16.8  | 30.1  | 46.9   | 63.7  |
| 55°   | 1193.8 | 1198.6 | 1180.6 | 1187.8 | 1173.3 | 1157.7 | 269.3 | 15.6  | 28.9  | 44.5   | 62.5  |
| 57.5° | 786.2  | 810.3  | 852.4  | 902.8  | 948.5  | 979.8  | 145.5 | 15.6  | 26.4  | 43.3   | 60.1  |
| 60°   | 700.9  | 694.9  | 693.7  | 703.3  | 723.7  | 740.6  | 50.5  | 14.4  | 25.2  | 39.7   | 57.7  |
| 62.5° | 383.5  | 381.1  | 417.2  | 478.5  | 514.5  | 518.1  | 14.4  | 14.4  | 22.8  | 37.3   | 54.1  |
| 65°   | 91.4   | 95.0   | 105.8  | 132.2  | 156.3  | 171.9  | 10.8  | 13.2  | 20.4  | 34.9   | 50.5  |
| 67.5° | 14.4   | 15.6   | 15.6   | 19.2   | 21.6   | 21.6   | 9.6   | 12.0  | 18.0  | 31.3   | 46.9  |
| 70°   | 8.4    | 8.4    | 8.4    | 8.4    | 8.4    | 8.4    | 8.4   | 10.8  | 15.6  | 27.7   | 42.1  |
| 72.5° | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 8.4   | 9.6   | 13.2  | 24.0   | 36.1  |
| 75°   | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0   | 8.4   | 10.8  | 19.2   | 31.3  |
| 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°    | 116.6  | 116.6 |
| 2.5°  | 98.6   | 97.4  |
| 5°    | 89.0   | 89.0  |
| 7.5°  | 85.4   | 85.4  |
| 10°   | 84.2   | 85.4  |
| 12.5° | 84.2   | 85.4  |
| 15°   | 84.2   | 85.4  |
| 17.5° | 84.2   | 85.4  |
| 20°   | 83.0   | 84.2  |
| 22.5° | 81.7   | 83.0  |
| 25°   | 80.5   | 83.0  |
| 27.5° | 79.3   | 83.0  |
| 30°   | 79.3   | 83.0  |
| 32.5° | 79.3   | 83.0  |
| 35°   | 78.1   | 83.0  |
| 37.5° | 78.1   | 83.0  |
| 40°   | 78.1   | 83.0  |
| 42.5° | 78.1   | 83.0  |
| 45°   | 78.1   | 83.0  |
| 47.5° | 78.1   | 83.0  |
| 50°   | 78.1   | 83.0  |
| 52.5° | 76.9   | 83.0  |
| 55°   | 76.9   | 81.7  |
| 57.5° | 74.5   | 79.3  |
| 60°   | 72.1   | 76.9  |
| 62.5° | 69.7   | 74.5  |
| 65°   | 66.1   | 70.9  |
| 67.5° | 62.5   | 66.1  |
| 70°   | 56.5   | 61.3  |
| 72.5° | 50.5   | 54.1  |
| 75°   | 43.3   | 46.9  |
| 77.5° | 36.1   | 39.7  |
| 80°   | 28.9   | 31.3  |
| 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)