

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: P1315845

Luminaire Tested: P3SQAS02R459827DE010 E3SQCA451MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315845  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS02R459827DE010 E3SQCA451MMS  
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , E3SQCA451MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

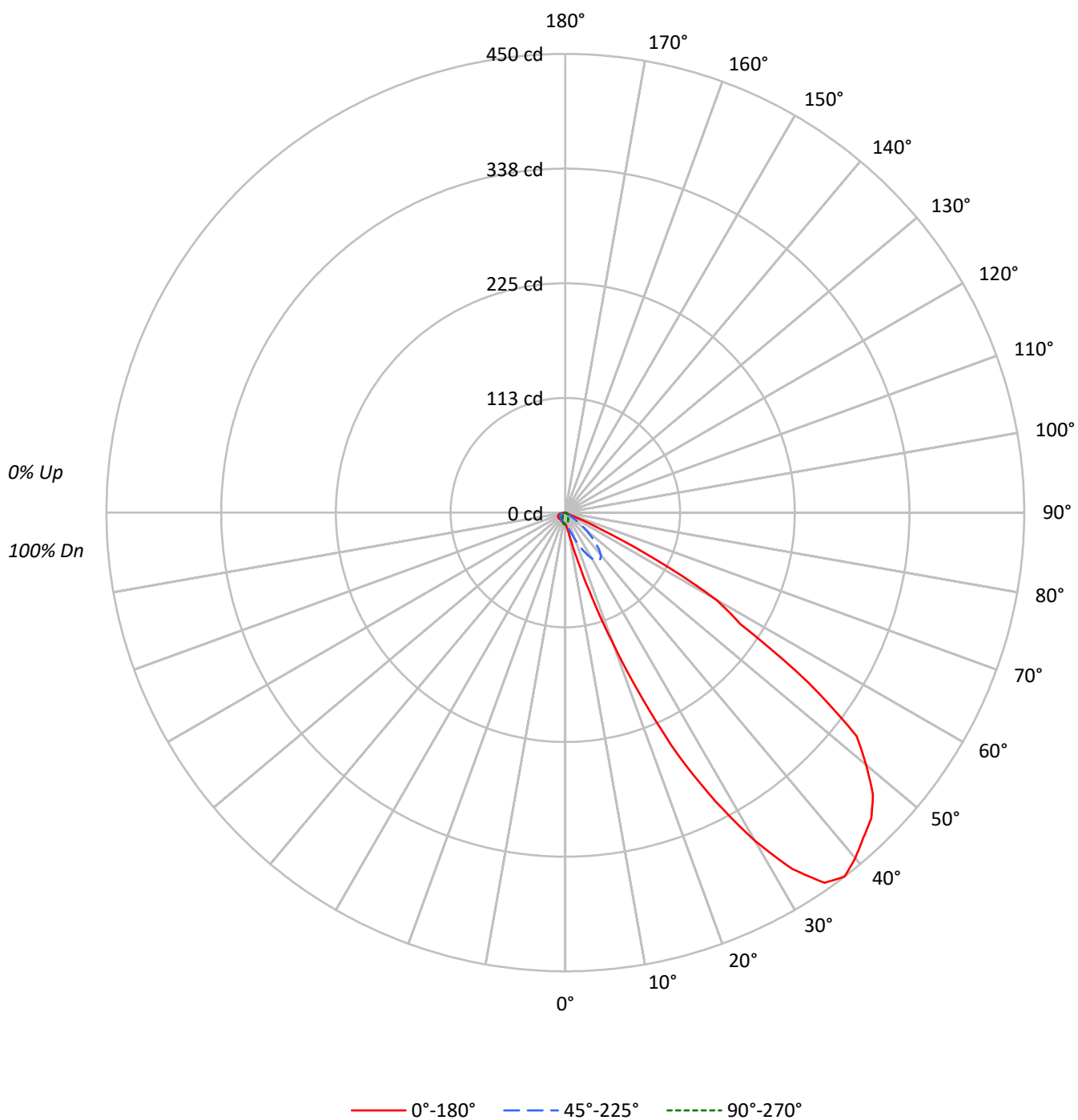
Lumens per Lamp: N/A  
Luminaire Lumens: 201.0 lumens  
Efficiency: N/A  
Efficacy: 55.8 lumens/watt  
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 99  | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 88  |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 66  | 77  | 70  | 65  | 74  | 69  | 64  | 71  | 67  | 63  |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  |
| 5   | 76  | 63  | 53  | 47  | 73  | 61  | 53  | 46  | 59  | 52  | 46  | 57  | 51  | 45  | 55  | 50  | 45  |
| 6   | 69  | 55  | 46  | 39  | 67  | 54  | 46  | 39  | 52  | 45  | 39  | 51  | 44  | 39  | 49  | 43  | 38  |
| 7   | 63  | 49  | 40  | 34  | 61  | 48  | 40  | 33  | 47  | 39  | 33  | 45  | 38  | 33  | 44  | 37  | 33  |
| 8   | 58  | 44  | 35  | 29  | 56  | 43  | 35  | 29  | 42  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  |
| 9   | 53  | 39  | 31  | 25  | 52  | 39  | 30  | 25  | 38  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 24  |
| 10  | 49  | 36  | 27  | 22  | 48  | 35  | 27  | 22  | 34  | 27  | 21  | 33  | 26  | 21  | 32  | 26  | 21  |

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

|     | 0°     | 45°   | 90°  | 135° | 180° |
|-----|--------|-------|------|------|------|
| 0°  | 1998   | 1998  | 1998 | 1998 | 1998 |
| 5°  | 2386   | 2213  | 1988 | 1833 | 1833 |
| 10° | 3812   | 2588  | 1854 | 1749 | 1749 |
| 15° | 9468   | 3459  | 1694 | 1623 | 1694 |
| 20° | 24962  | 5168  | 1466 | 1558 | 1649 |
| 25° | 50110  | 7677  | 1254 | 1444 | 1615 |
| 30° | 73879  | 10281 | 1014 | 1412 | 1651 |
| 35° | 93202  | 12047 | 883  | 1388 | 1703 |
| 40° | 99438  | 12163 | 787  | 1461 | 1821 |
| 45° | 103318 | 10156 | 731  | 1583 | 1973 |
| 50° | 103153 | 7073  | 723  | 1688 | 2224 |
| 55° | 87676  | 3153  | 751  | 1892 | 2432 |
| 60° | 58935  | 620   | 758  | 2101 | 2790 |
| 65° | 15649  | 285   | 734  | 2282 | 3179 |
| 70° | 403    | 352   | 755  | 2518 | 3575 |
| 75° | 333    | 333   | 799  | 2662 | 4059 |
| 80° | 298    | 496   | 793  | 2777 | 4661 |
| 85° | 395    | 593   | 1383 | 2964 | 4545 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 105971 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1.2    | 0.6       |
| 10°-20°   | 5.7    | 2.8       |
| 20°-30°   | 23.4   | 11.6      |
| 30°-40°   | 49.3   | 24.5      |
| 40°-50°   | 60.8   | 30.2      |
| 50°-60°   | 45.6   | 22.7      |
| 60°-70°   | 11.7   | 5.8       |
| 70°-80°   | 2.4    | 1.2       |
| 80°-90°   | 1.0    | 0.5       |
| 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°    | 30.2   | 15.0      |
| 0°-40°    | 79.5   | 39.5      |
| 0°-60°    | 185.8  | 92.5      |
| 0°-90°    | 201.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 201.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 12  | 12  | 12  | 12   | 12   |      |
| 5°  | 14  | 13  | 12  | 11   | 11   | 2    |
| 15° | 53  | 19  | 10  | 9    | 10   | 19   |
| 25° | 264 | 40  | 7   | 8    | 8    | 123  |
| 35° | 443 | 57  | 4   | 7    | 8    | 270  |
| 45° | 424 | 42  | 3   | 6    | 8    | 325  |
| 55° | 292 | 10  | 2   | 6    | 8    | 252  |
| 65° | 38  | 1   | 2   | 6    | 8    | 55   |
| 75° | 0   | 0   | 1   | 4    | 6    | 1    |
| 85° | 0   | 0   | 1   | 2    | 2    | 0    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 45°  | 67.5° | 90°  | 112.5° |
|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|--------|
| 0°    | 11.6  | 11.6  | 11.6  | 11.6  | 11.6  | 11.6  | 11.6  | 11.6 | 11.6  | 11.6 | 11.6   |
| 2.5°  | 12.3  | 12.3  | 12.3  | 12.3  | 12.3  | 12.3  | 12.3  | 12.1 | 12.0  | 11.6 | 11.3   |
| 5°    | 13.8  | 13.6  | 13.6  | 13.6  | 13.5  | 13.3  | 13.3  | 12.8 | 12.1  | 11.5 | 11.0   |
| 7.5°  | 16.3  | 16.3  | 16.1  | 15.8  | 15.6  | 15.3  | 14.9  | 13.6 | 12.1  | 11.1 | 10.5   |
| 10°   | 21.8  | 21.4  | 20.9  | 20.6  | 19.8  | 18.6  | 17.8  | 14.8 | 12.0  | 10.6 | 10.1   |
| 12.5° | 32.6  | 33.2  | 31.6  | 29.9  | 27.6  | 25.4  | 22.8  | 16.8 | 12.0  | 10.1 | 9.6    |
| 15°   | 53.1  | 54.3  | 51.2  | 47.8  | 42.2  | 36.9  | 31.9  | 19.4 | 11.6  | 9.5  | 9.0    |
| 17.5° | 86.9  | 88.4  | 83.0  | 75.2  | 66.4  | 55.8  | 46.7  | 23.1 | 11.3  | 8.8  | 8.5    |
| 20°   | 136.2 | 136.0 | 125.7 | 115.9 | 99.0  | 83.4  | 66.3  | 28.2 | 10.8  | 8.0  | 8.0    |
| 22.5° | 196.8 | 197.5 | 184.8 | 167.2 | 143.2 | 118.1 | 90.8  | 34.2 | 10.1  | 7.3  | 7.5    |
| 25°   | 263.7 | 258.1 | 243.1 | 221.7 | 191.0 | 156.3 | 120.4 | 40.4 | 9.5   | 6.6  | 7.0    |
| 27.5° | 319.5 | 314.1 | 297.0 | 271.5 | 238.5 | 197.3 | 150.5 | 46.5 | 8.6   | 6.0  | 6.5    |
| 30°   | 371.5 | 364.5 | 344.0 | 315.2 | 275.9 | 231.4 | 178.7 | 51.7 | 7.6   | 5.1  | 6.0    |
| 32.5° | 414.4 | 408.1 | 384.6 | 351.3 | 308.4 | 260.6 | 202.6 | 55.6 | 6.6   | 4.7  | 5.6    |
| 35°   | 443.3 | 436.8 | 415.2 | 378.5 | 331.8 | 281.8 | 222.1 | 57.3 | 5.8   | 4.2  | 5.5    |
| 37.5° | 449.9 | 446.4 | 431.0 | 396.6 | 347.9 | 295.5 | 234.5 | 56.8 | 4.8   | 3.8  | 5.1    |
| 40°   | 442.3 | 443.1 | 435.8 | 407.2 | 356.6 | 301.3 | 239.7 | 54.1 | 4.0   | 3.5  | 5.0    |
| 42.5° | 432.5 | 434.6 | 434.1 | 411.5 | 360.2 | 301.6 | 237.5 | 48.8 | 3.2   | 3.2  | 4.8    |
| 45°   | 424.2 | 426.3 | 429.3 | 409.7 | 357.7 | 297.3 | 230.7 | 41.7 | 2.3   | 3.0  | 4.8    |
| 47.5° | 409.1 | 411.4 | 415.7 | 395.1 | 345.1 | 286.2 | 218.4 | 33.9 | 1.7   | 2.8  | 4.7    |
| 50°   | 385.0 | 386.1 | 385.0 | 361.9 | 320.9 | 268.2 | 198.5 | 26.4 | 1.2   | 2.7  | 4.7    |
| 52.5° | 360.2 | 357.9 | 348.3 | 319.0 | 282.3 | 239.8 | 173.4 | 18.8 | 0.8   | 2.5  | 4.5    |
| 55°   | 292.0 | 288.3 | 281.2 | 263.2 | 242.3 | 204.9 | 140.2 | 10.5 | 0.8   | 2.5  | 4.3    |
| 57.5° | 203.4 | 205.4 | 207.9 | 204.3 | 194.6 | 161.4 | 106.5 | 4.7  | 0.8   | 2.3  | 4.3    |
| 60°   | 171.1 | 169.4 | 169.6 | 167.2 | 151.3 | 117.8 | 73.2  | 1.8  | 0.8   | 2.2  | 4.2    |
| 62.5° | 102.1 | 103.3 | 105.5 | 106.0 | 90.2  | 65.8  | 38.4  | 0.8  | 0.8   | 2.0  | 4.0    |
| 65°   | 38.4  | 40.2  | 35.2  | 30.6  | 24.2  | 17.8  | 9.0   | 0.7  | 1.0   | 1.8  | 3.7    |
| 67.5° | 1.2   | 1.3   | 1.7   | 1.5   | 1.5   | 1.3   | 1.0   | 0.7  | 1.0   | 1.7  | 3.5    |
| 70°   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.7   | 0.7   | 0.7  | 0.8   | 1.5  | 3.2    |
| 72.5° | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7  | 0.8   | 1.3  | 2.8    |
| 75°   | 0.5   | 0.7   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5  | 0.8   | 1.2  | 2.3    |
| 77.5° | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5   | 0.5  | 0.7   | 1.0  | 2.0    |
| 80°   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.5  | 0.7   | 0.8  | 1.7    |
| 82.5° | 0.3   | 0.3   | 0.3   | 0.2   | 0.3   | 0.3   | 0.3   | 0.3  | 0.7   | 0.7  | 1.3    |
| 85°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.3  | 0.5   | 0.7  | 0.8    |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.3  | 0.5   | 0.5  | 0.5    |
| 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):**

|       | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0°    | 11.6 | 11.6   | 11.6 |
| 2.5°  | 11.0 | 11.0   | 11.0 |
| 5°    | 10.6 | 10.6   | 10.6 |
| 7.5°  | 10.3 | 10.3   | 10.3 |
| 10°   | 10.0 | 10.0   | 10.0 |
| 12.5° | 9.6  | 9.6    | 9.8  |
| 15°   | 9.1  | 9.5    | 9.5  |
| 17.5° | 8.8  | 9.1    | 9.3  |
| 20°   | 8.5  | 8.8    | 9.0  |
| 22.5° | 8.0  | 8.5    | 8.8  |
| 25°   | 7.6  | 8.3    | 8.5  |
| 27.5° | 7.3  | 8.1    | 8.5  |
| 30°   | 7.1  | 8.0    | 8.3  |
| 32.5° | 6.8  | 7.8    | 8.1  |
| 35°   | 6.6  | 7.8    | 8.1  |
| 37.5° | 6.6  | 7.6    | 8.1  |
| 40°   | 6.5  | 7.6    | 8.1  |
| 42.5° | 6.5  | 7.6    | 8.1  |
| 45°   | 6.5  | 7.6    | 8.1  |
| 47.5° | 6.3  | 7.6    | 8.3  |
| 50°   | 6.3  | 7.8    | 8.3  |
| 52.5° | 6.3  | 7.8    | 8.3  |
| 55°   | 6.3  | 7.8    | 8.1  |
| 57.5° | 6.1  | 7.6    | 8.1  |
| 60°   | 6.1  | 7.6    | 8.1  |
| 62.5° | 5.8  | 7.5    | 8.0  |
| 65°   | 5.6  | 7.3    | 7.8  |
| 67.5° | 5.3  | 7.1    | 7.5  |
| 70°   | 5.0  | 6.6    | 7.1  |
| 72.5° | 4.5  | 6.3    | 6.8  |
| 75°   | 4.0  | 5.8    | 6.1  |
| 77.5° | 3.5  | 5.1    | 5.5  |
| 80°   | 2.8  | 4.3    | 4.7  |
| 82.5° | 2.2  | 3.3    | 3.5  |
| 85°   | 1.5  | 2.2    | 2.3  |
| 87.5° | 0.7  | 1.0    | 1.2  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)