

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: P1305506

Luminaire Tested: P3SQASS02R709024DE010 E3SQCA451MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1305506  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQASS02R709024DE010 E3SQCA451MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 2400K CCT AND, 90CRI , E3SQCA451MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

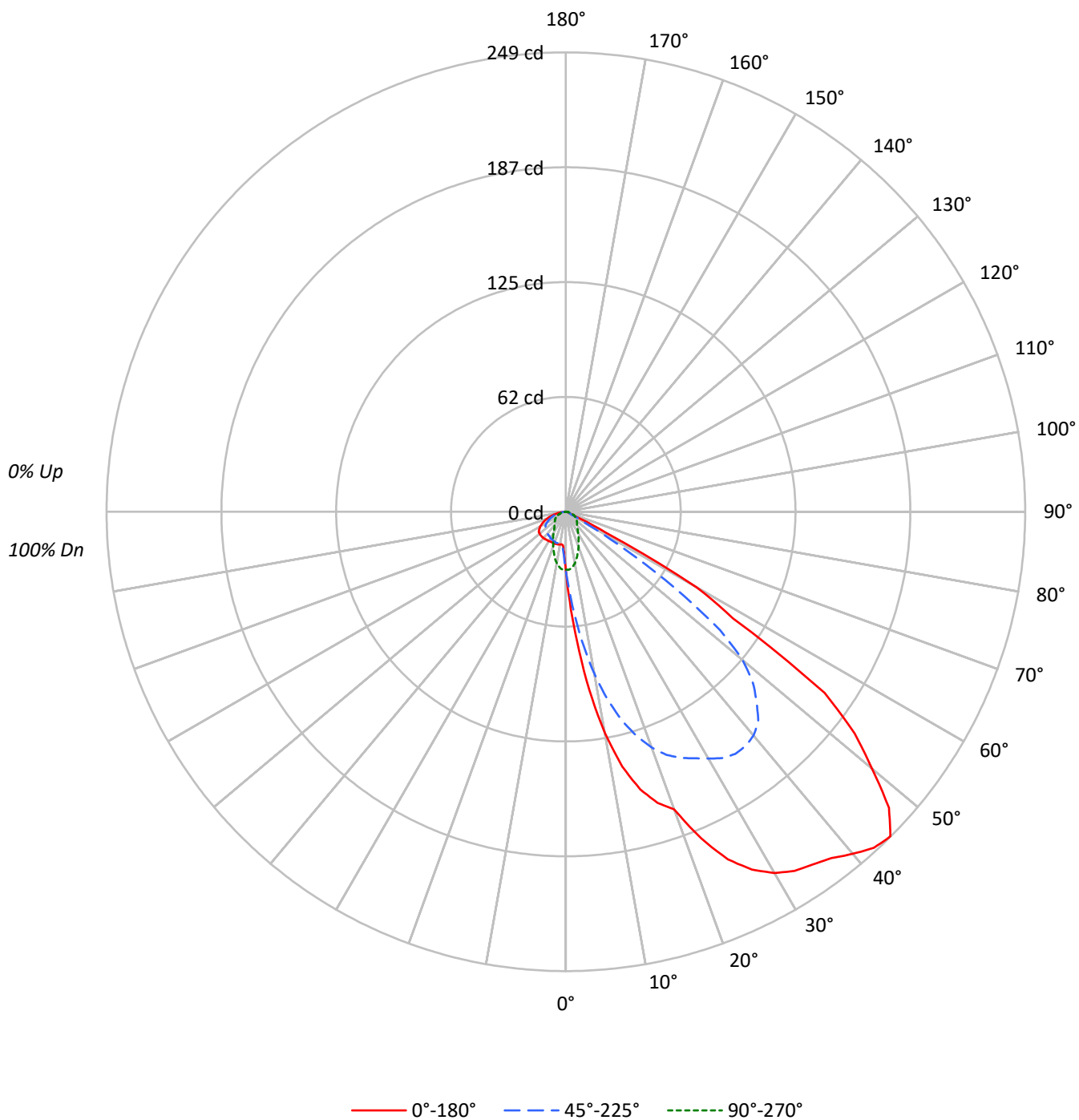
Lumens per Lamp: N/A  
Luminaire Lumens: 215.0 lumens  
Efficiency: N/A  
Efficacy: 59.7 lumens/watt  
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 110 | 106 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  | 87  | 87  |
| 2   | 101 | 94  | 88  | 83  | 99  | 92  | 87  | 82  | 89  | 84  | 80  | 86  | 82  | 78  | 83  | 79  | 77  | 75  | 75  | 75  |
| 3   | 93  | 83  | 76  | 70  | 90  | 82  | 75  | 69  | 79  | 73  | 68  | 76  | 71  | 67  | 74  | 69  | 66  | 64  | 64  | 64  |
| 4   | 85  | 74  | 66  | 59  | 83  | 72  | 65  | 59  | 70  | 63  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 54  | 54  | 54  |
| 5   | 78  | 66  | 57  | 51  | 76  | 65  | 57  | 51  | 63  | 55  | 50  | 61  | 54  | 49  | 59  | 53  | 49  | 47  | 47  | 47  |
| 6   | 72  | 59  | 50  | 44  | 70  | 58  | 50  | 44  | 56  | 49  | 43  | 55  | 48  | 43  | 53  | 47  | 43  | 41  | 41  | 41  |
| 7   | 66  | 53  | 44  | 38  | 65  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 37  | 35  | 35  | 35  |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 33  | 45  | 38  | 33  | 44  | 38  | 33  | 31  | 31  | 31  |
| 9   | 57  | 44  | 35  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 29  | 28  | 28  | 28  |
| 10  | 53  | 40  | 32  | 27  | 52  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 26  | 37  | 31  | 26  | 25  | 25  | 25  |

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

|     | 0°    | 45°   | 90°  | 135° | 180° |
|-----|-------|-------|------|------|------|
| 0°  | 5391  | 5391  | 5391 | 5391 | 5391 |
| 5°  | 12275 | 9820  | 5342 | 3371 | 3146 |
| 10° | 21265 | 15599 | 4949 | 3078 | 3148 |
| 15° | 27761 | 20843 | 4315 | 3138 | 3245 |
| 20° | 31450 | 24925 | 3702 | 3189 | 3372 |
| 25° | 39507 | 27972 | 3097 | 3211 | 3458 |
| 30° | 44964 | 30705 | 2645 | 3281 | 3659 |
| 35° | 49071 | 33681 | 2292 | 3343 | 3869 |
| 40° | 54407 | 35589 | 2113 | 3462 | 4204 |
| 45° | 60598 | 35633 | 2095 | 3653 | 4555 |
| 50° | 58061 | 33518 | 2063 | 3858 | 4930 |
| 55° | 51405 | 21709 | 2132 | 4054 | 5345 |
| 60° | 28141 | 4650  | 2136 | 4133 | 5546 |
| 65° | 1997  | 1141  | 2078 | 4116 | 5583 |
| 70° | 957   | 1057  | 1964 | 3877 | 5388 |
| 75° | 865   | 1131  | 1863 | 3726 | 4991 |
| 80° | 893   | 1091  | 1686 | 3372 | 4661 |
| 85° | 790   | 1186  | 1778 | 2964 | 4150 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 60598 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 4.1    | 1.9       |
| 10°-20°   | 17.5   | 8.1       |
| 20°-30°   | 33.5   | 15.6      |
| 30°-40°   | 47.4   | 22.1      |
| 40°-50°   | 53.6   | 24.9      |
| 50°-60°   | 42.5   | 19.8      |
| 60°-70°   | 11.4   | 5.3       |
| 70°-80°   | 3.8    | 1.8       |
| 80°-90°   | 1.2    | 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°    | 55.1   | 25.6      |
| 0°-40°    | 102.5  | 47.7      |
| 0°-60°    | 198.6  | 92.4      |
| 0°-90°    | 215.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 215.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 31  | 31  | 31  | 31   | 31   |      |
| 5°  | 71  | 57  | 31  | 20   | 18   | 8    |
| 15° | 156 | 117 | 24  | 18   | 18   | 44   |
| 25° | 208 | 147 | 16  | 17   | 18   | 95   |
| 35° | 233 | 160 | 11  | 16   | 18   | 147  |
| 45° | 249 | 146 | 9   | 15   | 19   | 186  |
| 55° | 171 | 72  | 7   | 14   | 18   | 139  |
| 65° | 5   | 3   | 5   | 10   | 14   | 18   |
| 75° | 1   | 2   | 3   | 6    | 8    | 1    |
| 85° | 0   | 1   | 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°    | 31.3  | 31.3  | 31.3  | 31.3  | 31.3  | 31.3  | 31.3  | 31.3  | 31.3  | 31.3 | 31.3   |
| 2.5°  | 48.7  | 48.7  | 48.5  | 47.6  | 47.2  | 46.1  | 45.3  | 42.9  | 37.1  | 31.5 | 27.0   |
| 5°    | 71.0  | 72.1  | 70.6  | 70.4  | 69.1  | 67.1  | 65.9  | 56.8  | 42.9  | 30.9 | 23.2   |
| 7.5°  | 97.4  | 97.8  | 97.4  | 95.2  | 93.3  | 90.1  | 87.1  | 72.9  | 48.7  | 29.8 | 20.4   |
| 10°   | 121.6 | 121.0 | 119.7 | 118.2 | 115.4 | 112.0 | 106.8 | 89.2  | 54.3  | 28.3 | 18.7   |
| 12.5° | 141.4 | 141.1 | 139.6 | 138.1 | 134.7 | 130.2 | 125.1 | 104.0 | 59.0  | 26.4 | 17.8   |
| 15°   | 155.7 | 155.7 | 154.2 | 152.5 | 149.3 | 145.6 | 139.9 | 116.9 | 62.9  | 24.2 | 16.9   |
| 17.5° | 165.4 | 165.0 | 163.9 | 162.6 | 160.0 | 156.4 | 151.9 | 127.2 | 65.4  | 22.1 | 16.7   |
| 20°   | 171.6 | 171.4 | 170.5 | 168.6 | 166.5 | 163.7 | 159.6 | 136.0 | 66.5  | 20.2 | 16.5   |
| 22.5° | 191.6 | 189.8 | 186.6 | 182.5 | 177.4 | 170.7 | 165.2 | 142.6 | 66.1  | 18.0 | 16.1   |
| 25°   | 207.9 | 207.2 | 203.8 | 198.8 | 192.0 | 183.4 | 174.2 | 147.2 | 63.9  | 16.3 | 15.7   |
| 27.5° | 218.6 | 217.5 | 214.3 | 208.9 | 201.6 | 193.3 | 184.7 | 150.6 | 60.9  | 14.8 | 15.0   |
| 30°   | 226.1 | 225.4 | 222.2 | 216.2 | 208.7 | 199.5 | 190.7 | 154.4 | 56.8  | 13.3 | 14.4   |
| 32.5° | 230.8 | 230.2 | 226.9 | 221.6 | 214.3 | 204.6 | 194.6 | 158.3 | 51.9  | 12.0 | 13.7   |
| 35°   | 233.4 | 232.7 | 229.1 | 224.4 | 217.5 | 208.1 | 197.3 | 160.2 | 45.9  | 10.9 | 13.1   |
| 37.5° | 236.6 | 235.3 | 230.4 | 224.6 | 217.7 | 208.9 | 198.2 | 160.0 | 39.9  | 10.1 | 12.7   |
| 40°   | 242.0 | 238.5 | 231.5 | 223.7 | 216.7 | 207.9 | 197.6 | 158.3 | 33.2  | 9.4  | 12.2   |
| 42.5° | 247.1 | 242.2 | 231.7 | 222.4 | 214.5 | 205.9 | 195.2 | 154.4 | 26.0  | 9.0  | 12.0   |
| 45°   | 248.8 | 241.5 | 228.7 | 219.4 | 211.9 | 203.1 | 192.0 | 146.3 | 17.6  | 8.6  | 11.6   |
| 47.5° | 237.5 | 232.1 | 221.4 | 214.5 | 207.4 | 198.8 | 187.3 | 137.7 | 10.1  | 8.2  | 11.2   |
| 50°   | 216.7 | 213.2 | 207.2 | 202.9 | 199.1 | 193.1 | 181.7 | 125.1 | 6.0   | 7.7  | 10.7   |
| 52.5° | 197.3 | 196.3 | 192.0 | 188.6 | 186.4 | 183.6 | 173.3 | 105.5 | 4.9   | 7.5  | 10.3   |
| 55°   | 171.2 | 167.7 | 166.7 | 165.4 | 169.9 | 169.7 | 155.7 | 72.3  | 4.7   | 7.1  | 9.9    |
| 57.5° | 107.5 | 109.0 | 114.5 | 124.8 | 137.1 | 144.1 | 143.7 | 38.6  | 4.5   | 6.6  | 9.2    |
| 60°   | 81.7  | 81.5  | 83.2  | 87.5  | 96.5  | 106.6 | 116.0 | 13.5  | 4.3   | 6.2  | 8.8    |
| 62.5° | 24.5  | 25.1  | 30.2  | 44.4  | 53.2  | 65.6  | 59.8  | 3.2   | 4.1   | 5.6  | 7.9    |
| 65°   | 4.9   | 5.1   | 5.1   | 5.8   | 7.1   | 10.7  | 13.1  | 2.8   | 3.9   | 5.1  | 7.3    |
| 67.5° | 2.1   | 2.1   | 2.1   | 2.4   | 2.4   | 2.8   | 2.4   | 2.6   | 3.4   | 4.5  | 6.4    |
| 70°   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 2.1   | 2.1   | 3.0   | 3.9  | 5.6    |
| 72.5° | 1.5   | 1.5   | 1.5   | 1.7   | 1.7   | 1.7   | 1.7   | 1.9   | 2.6   | 3.2  | 4.7    |
| 75°   | 1.3   | 1.3   | 1.3   | 1.3   | 1.5   | 1.5   | 1.5   | 1.7   | 2.1   | 2.8  | 3.9    |
| 77.5° | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.3   | 1.3   | 1.3   | 1.7   | 2.1  | 3.2    |
| 80°   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 1.1   | 1.3   | 1.7  | 2.4    |
| 82.5° | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.9   | 1.1   | 1.3  | 1.7    |
| 85°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.6   | 0.6   | 0.9  | 1.1    |
| 87.5° | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   | 0.4   | 0.4  | 0.6    |
| 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°    | 31.3 | 31.3   | 31.3 |
| 2.5°  | 23.8 | 22.5   | 21.9 |
| 5°    | 19.5 | 18.4   | 18.2 |
| 7.5°  | 18.0 | 17.8   | 17.8 |
| 10°   | 17.6 | 17.8   | 18.0 |
| 12.5° | 17.6 | 18.0   | 18.2 |
| 15°   | 17.6 | 18.0   | 18.2 |
| 17.5° | 17.6 | 18.0   | 18.2 |
| 20°   | 17.4 | 18.0   | 18.4 |
| 22.5° | 17.2 | 18.0   | 18.2 |
| 25°   | 16.9 | 18.0   | 18.2 |
| 27.5° | 16.7 | 17.8   | 18.2 |
| 30°   | 16.5 | 17.8   | 18.4 |
| 32.5° | 16.1 | 17.8   | 18.4 |
| 35°   | 15.9 | 17.8   | 18.4 |
| 37.5° | 15.7 | 17.8   | 18.7 |
| 40°   | 15.4 | 17.8   | 18.7 |
| 42.5° | 15.2 | 17.8   | 18.7 |
| 45°   | 15.0 | 17.6   | 18.7 |
| 47.5° | 14.6 | 17.6   | 18.7 |
| 50°   | 14.4 | 17.4   | 18.4 |
| 52.5° | 13.9 | 17.2   | 18.4 |
| 55°   | 13.5 | 16.7   | 17.8 |
| 57.5° | 12.9 | 16.1   | 16.9 |
| 60°   | 12.0 | 15.2   | 16.1 |
| 62.5° | 10.9 | 14.2   | 14.8 |
| 65°   | 10.1 | 12.9   | 13.7 |
| 67.5° | 8.8  | 11.4   | 12.2 |
| 70°   | 7.7  | 9.9    | 10.7 |
| 72.5° | 6.6  | 8.4    | 9.2  |
| 75°   | 5.6  | 6.9    | 7.5  |
| 77.5° | 4.3  | 5.6    | 6.0  |
| 80°   | 3.4  | 4.3    | 4.7  |
| 82.5° | 2.4  | 3.0    | 3.2  |
| 85°   | 1.5  | 1.9    | 2.1  |
| 87.5° | 0.6  | 0.9    | 0.9  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)