

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: P1318198

Luminaire Tested: P3SQAS17R559835DE010 E3SQCA451MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1318198  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS17R559835DE010 E3SQCA451MB  
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 98CRI , E3SQCA451MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

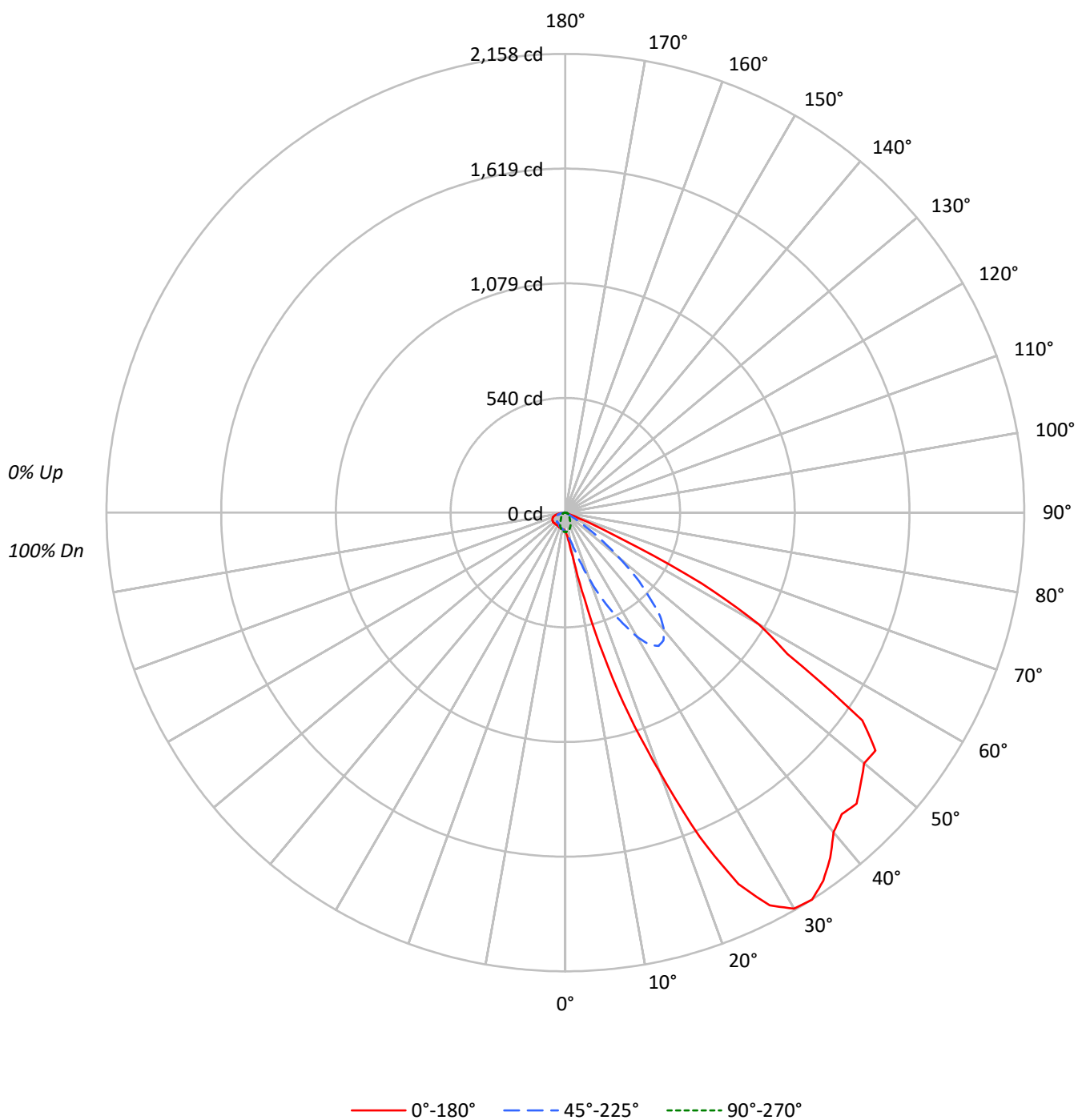
Lumens per Lamp: N/A  
Luminaire Lumens: 1388.0 lumens  
Efficiency: N/A  
Efficacy: 68.0 lumens/watt  
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.4  
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  | 95  | 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  | 67  | 77  | 71  | 65  | 74  | 69  | 64  | 72  | 67  | 63  |
| 4   | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 65  | 59  | 54  | 63  | 58  | 54  |
| 5   | 76  | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 60  | 52  | 47  | 58  | 51  | 46  | 56  | 50  | 46  |
| 6   | 69  | 56  | 47  | 40  | 68  | 55  | 46  | 40  | 53  | 46  | 40  | 51  | 45  | 39  | 50  | 44  | 39  |
| 7   | 64  | 50  | 41  | 35  | 62  | 49  | 41  | 35  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 38  | 34  |
| 8   | 59  | 45  | 36  | 30  | 57  | 44  | 36  | 30  | 43  | 35  | 30  | 41  | 35  | 29  | 40  | 34  | 29  |
| 9   | 54  | 40  | 32  | 26  | 53  | 40  | 32  | 26  | 39  | 31  | 26  | 38  | 31  | 26  | 36  | 30  | 26  |
| 10  | 50  | 37  | 28  | 23  | 49  | 36  | 28  | 23  | 35  | 28  | 23  | 34  | 27  | 23  | 33  | 27  | 23  |

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

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 15414  | 15414  | 15414 | 15414 | 15414 |
| 5°  | 19726  | 18014  | 15473 | 14418 | 13986 |
| 10° | 40100  | 22944  | 15005 | 13728 | 13728 |
| 15° | 123115 | 35196  | 13996 | 13337 | 13782 |
| 20° | 238020 | 61581  | 12591 | 13031 | 13709 |
| 25° | 366352 | 95773  | 10946 | 12580 | 13758 |
| 30° | 427780 | 133896 | 9028  | 12429 | 14139 |
| 35° | 444521 | 160901 | 7485  | 12383 | 14696 |
| 40° | 441143 | 162388 | 6902  | 12950 | 15985 |
| 45° | 471653 | 134421 | 6576  | 14029 | 17317 |
| 50° | 491573 | 88712  | 6564  | 15111 | 19398 |
| 55° | 511855 | 38674  | 6636  | 16574 | 21349 |
| 60° | 361599 | 8887   | 6751  | 18152 | 24077 |
| 65° | 117934 | 3016   | 6479  | 19479 | 26977 |
| 70° | 3726   | 3072   | 6798  | 20998 | 30867 |
| 75° | 3261   | 3261   | 5723  | 22025 | 34269 |
| 80° | 2479   | 3670   | 6050  | 21919 | 36498 |
| 85° | 2371   | 4940   | 7311  | 21736 | 36359 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 520067 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 9.5    | 0.7       |
| 10°-20°   | 58.9   | 4.2       |
| 20°-30°   | 197.6  | 14.2      |
| 30°-40°   | 324.4  | 23.4      |
| 40°-50°   | 361.9  | 26.1      |
| 50°-60°   | 304.6  | 21.9      |
| 60°-70°   | 103.3  | 7.4       |
| 70°-80°   | 20.2   | 1.5       |
| 80°-90°   | 7.6    | 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°    | 266.0  | 19.2      |
| 0°-40°    | 590.4  | 42.5      |
| 0°-60°    | 1256.9 | 90.6      |
| 0°-90°    | 1388.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1388.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 90   | 90  | 90  | 90   | 90   |      |
| 5°  | 114  | 104 | 90  | 83   | 81   | 14   |
| 15° | 690  | 197 | 78  | 75   | 77   | 219  |
| 25° | 1928 | 504 | 58  | 66   | 72   | 866  |
| 35° | 2114 | 765 | 36  | 59   | 70   | 1313 |
| 45° | 1936 | 552 | 27  | 58   | 71   | 1479 |
| 55° | 1705 | 129 | 22  | 55   | 71   | 1388 |
| 65° | 289  | 7   | 16  | 48   | 66   | 392  |
| 75° | 5    | 5   | 9   | 33   | 52   | 5    |
| 85° | 1    | 2   | 4   | 11   | 18   | 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°    | 89.5   | 89.5   | 89.5   | 89.5   | 89.5   | 89.5   | 89.5  | 89.5  | 89.5 | 89.5   | 89.5 |
| 2.5°  | 98.1   | 98.1   | 98.1   | 98.1   | 98.1   | 98.1   | 96.9  | 93.2  | 90.8 | 87.1   | 85.8 |
| 5°    | 114.1  | 114.1  | 114.1  | 112.8  | 112.8  | 110.4  | 104.2 | 95.7  | 89.5 | 84.6   | 83.4 |
| 7.5°  | 147.2  | 145.9  | 143.5  | 142.3  | 138.6  | 137.4  | 115.3 | 98.1  | 88.3 | 82.2   | 80.9 |
| 10°   | 229.3  | 226.9  | 223.2  | 209.7  | 197.4  | 188.9  | 131.2 | 99.3  | 85.8 | 79.7   | 78.5 |
| 12.5° | 413.3  | 408.4  | 390.0  | 361.8  | 327.4  | 310.3  | 157.0 | 100.6 | 82.2 | 77.3   | 77.3 |
| 15°   | 690.5  | 684.3  | 650.0  | 610.7  | 548.2  | 513.9  | 197.4 | 99.3  | 78.5 | 73.6   | 74.8 |
| 17.5° | 997.0  | 979.9  | 944.3  | 892.8  | 808.2  | 767.7  | 257.5 | 96.9  | 73.6 | 71.1   | 73.6 |
| 20°   | 1298.7 | 1293.8 | 1235.0 | 1165.1 | 1060.8 | 1006.9 | 336.0 | 93.2  | 68.7 | 67.5   | 71.1 |
| 22.5° | 1651.9 | 1631.1 | 1568.5 | 1493.7 | 1350.2 | 1279.1 | 420.6 | 88.3  | 63.8 | 63.8   | 68.7 |
| 25°   | 1927.9 | 1903.3 | 1854.3 | 1767.2 | 1631.1 | 1555.1 | 504.0 | 82.2  | 57.6 | 60.1   | 66.2 |
| 27.5° | 2082.4 | 2054.2 | 2017.4 | 1942.6 | 1837.1 | 1769.7 | 587.4 | 74.8  | 51.5 | 56.4   | 63.8 |
| 30°   | 2151.1 | 2143.7 | 2116.7 | 2061.5 | 1964.7 | 1904.6 | 673.3 | 66.2  | 45.4 | 52.7   | 62.5 |
| 32.5° | 2158.4 | 2162.1 | 2151.1 | 2115.5 | 2041.9 | 1990.4 | 737.1 | 58.9  | 40.5 | 50.3   | 60.1 |
| 35°   | 2114.3 | 2127.8 | 2135.1 | 2120.4 | 2072.6 | 2030.9 | 765.3 | 50.3  | 35.6 | 47.8   | 58.9 |
| 37.5° | 2045.6 | 2070.1 | 2094.7 | 2098.3 | 2068.9 | 2041.9 | 757.9 | 42.9  | 33.1 | 46.6   | 58.9 |
| 40°   | 1962.2 | 1984.3 | 2034.6 | 2066.5 | 2056.6 | 2037.0 | 722.3 | 35.6  | 30.7 | 44.1   | 57.6 |
| 42.5° | 1924.2 | 1929.1 | 1983.1 | 2037.0 | 2034.6 | 2018.6 | 659.8 | 28.2  | 28.2 | 44.1   | 57.6 |
| 45°   | 1936.5 | 1914.4 | 1949.9 | 2012.5 | 2008.8 | 1988.0 | 551.9 | 22.1  | 27.0 | 42.9   | 57.6 |
| 47.5° | 1884.9 | 1854.3 | 1914.4 | 1988.0 | 1974.5 | 1943.8 | 456.2 | 15.9  | 25.8 | 41.7   | 56.4 |
| 50°   | 1834.7 | 1829.8 | 1876.4 | 1913.2 | 1894.8 | 1877.6 | 331.1 | 12.3  | 24.5 | 40.5   | 56.4 |
| 52.5° | 1838.3 | 1829.8 | 1834.7 | 1833.4 | 1796.6 | 1778.3 | 226.9 | 9.8   | 23.3 | 39.2   | 56.4 |
| 55°   | 1704.7 | 1677.7 | 1651.9 | 1659.3 | 1661.7 | 1649.5 | 128.8 | 8.6   | 22.1 | 39.2   | 55.2 |
| 57.5° | 1238.6 | 1231.3 | 1259.5 | 1339.2 | 1401.8 | 1409.1 | 62.5  | 8.6   | 20.8 | 38.0   | 54.0 |
| 60°   | 1049.8 | 1044.9 | 1046.1 | 1069.4 | 1102.5 | 1081.7 | 25.8  | 8.6   | 19.6 | 36.8   | 52.7 |
| 62.5° | 723.6  | 771.4  | 791.0  | 845.0  | 822.9  | 793.5  | 9.8   | 9.8   | 18.4 | 34.3   | 51.5 |
| 65°   | 289.4  | 288.2  | 315.2  | 340.9  | 333.6  | 311.5  | 7.4   | 8.6   | 15.9 | 31.9   | 47.8 |
| 67.5° | 67.5   | 61.3   | 52.7   | 45.4   | 38.0   | 30.7   | 7.4   | 8.6   | 14.7 | 29.4   | 45.4 |
| 70°   | 7.4    | 7.4    | 7.4    | 7.4    | 7.4    | 6.1    | 6.1   | 8.6   | 13.5 | 27.0   | 41.7 |
| 72.5° | 6.1    | 6.1    | 6.1    | 6.1    | 6.1    | 6.1    | 6.1   | 7.4   | 11.0 | 23.3   | 38.0 |
| 75°   | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9   | 6.1   | 8.6  | 19.6   | 33.1 |
| 77.5° | 3.7    | 3.7    | 3.7    | 4.9    | 3.7    | 4.9    | 4.9   | 6.1   | 7.4  | 15.9   | 28.2 |
| 80°   | 2.5    | 2.5    | 3.7    | 3.7    | 3.7    | 3.7    | 3.7   | 4.9   | 6.1  | 13.5   | 22.1 |
| 82.5° | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 3.7   | 3.7   | 4.9  | 9.8    | 15.9 |
| 85°   | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 2.5    | 2.5   | 3.7   | 3.7  | 7.4    | 11.0 |
| 87.5° | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 2.5   | 2.5   | 3.7  | 3.7    | 4.9  |
| 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°    | 89.5   | 89.5 |
| 2.5°  | 84.6   | 84.6 |
| 5°    | 82.2   | 80.9 |
| 7.5°  | 79.7   | 79.7 |
| 10°   | 78.5   | 78.5 |
| 12.5° | 77.3   | 78.5 |
| 15°   | 77.3   | 77.3 |
| 17.5° | 74.8   | 76.0 |
| 20°   | 73.6   | 74.8 |
| 22.5° | 72.4   | 73.6 |
| 25°   | 71.1   | 72.4 |
| 27.5° | 69.9   | 71.1 |
| 30°   | 68.7   | 71.1 |
| 32.5° | 67.5   | 69.9 |
| 35°   | 67.5   | 69.9 |
| 37.5° | 67.5   | 71.1 |
| 40°   | 67.5   | 71.1 |
| 42.5° | 67.5   | 71.1 |
| 45°   | 67.5   | 71.1 |
| 47.5° | 67.5   | 71.1 |
| 50°   | 67.5   | 72.4 |
| 52.5° | 67.5   | 72.4 |
| 55°   | 67.5   | 71.1 |
| 57.5° | 66.2   | 71.1 |
| 60°   | 66.2   | 69.9 |
| 62.5° | 65.0   | 68.7 |
| 65°   | 62.5   | 66.2 |
| 67.5° | 60.1   | 65.0 |
| 70°   | 56.4   | 61.3 |
| 72.5° | 52.7   | 56.4 |
| 75°   | 47.8   | 51.5 |
| 77.5° | 41.7   | 44.1 |
| 80°   | 33.1   | 36.8 |
| 82.5° | 25.8   | 28.2 |
| 85°   | 17.2   | 18.4 |
| 87.5° | 7.4    | 8.6  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)