

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: P1305638

Luminaire Tested: P3SQAS05R459024DE010 E3SQCD1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1305638  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-44)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS05R459024DE010 E3SQCD1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , E3SQCD1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

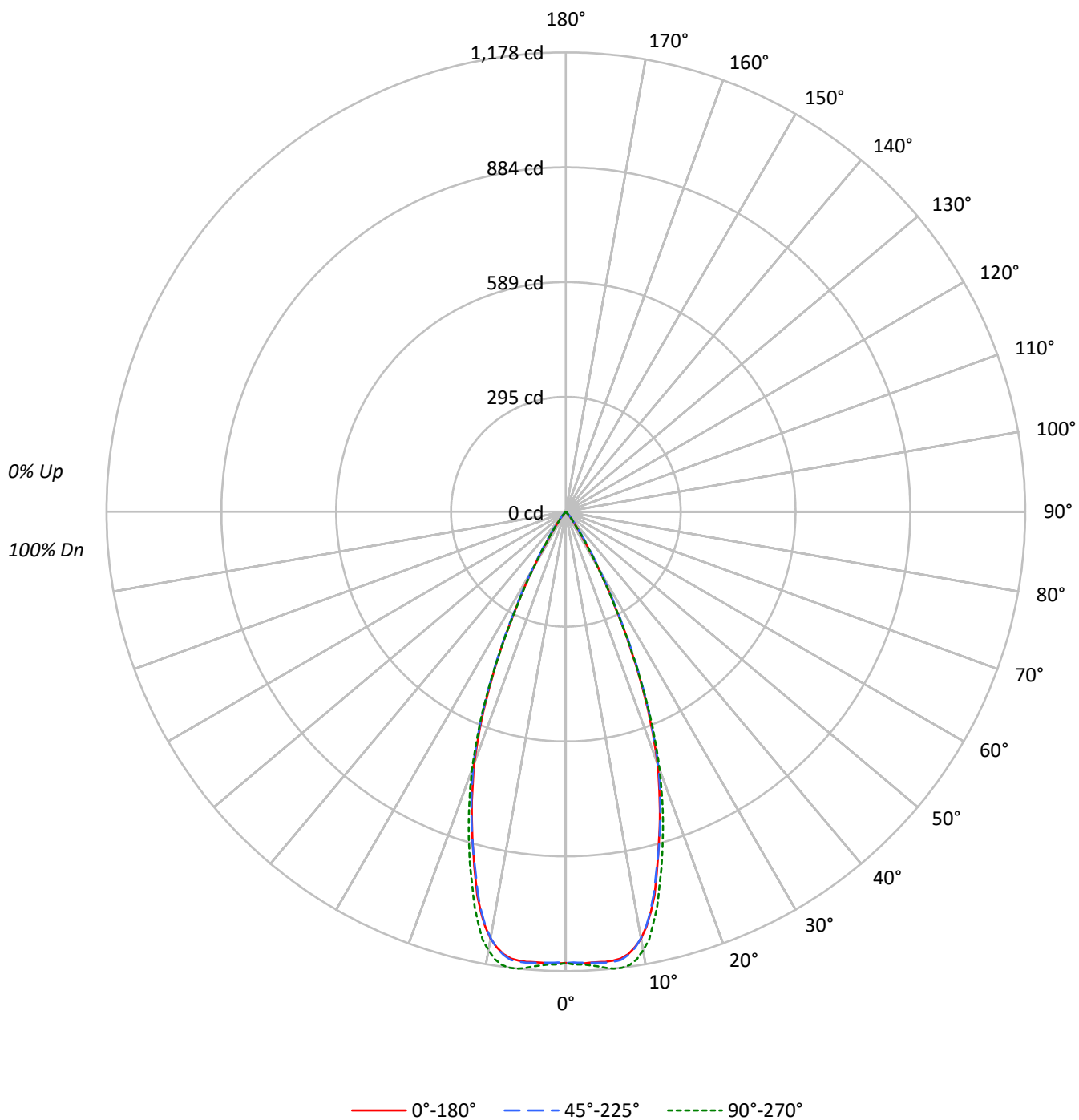
Lumens per Lamp: N/A  
Luminaire Lumens: 598.9 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Spacing Criteria (0/90/45): 0.72 / 0.73 / 0.67  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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

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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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 |  | 102 | 101 | 100 |  | 99  | 98  | 97  | 95  |
| 2   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  |  | 98  | 96  | 94  |  | 95  | 94  | 92  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 91  |  | 94  | 91  | 89  |  | 92  | 90  | 88  | 86  |
| 4   | 101 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 88  | 86  |  | 90  | 87  | 85  |  | 88  | 86  | 84  | 82  |
| 5   | 98  | 91  | 86  | 82  | 96  | 90  | 85  | 82  | 88  | 84  | 81  |  | 87  | 83  | 81  |  | 85  | 82  | 80  | 79  |
| 6   | 94  | 86  | 82  | 78  | 93  | 86  | 81  | 78  | 84  | 80  | 77  |  | 83  | 79  | 77  |  | 82  | 79  | 76  | 75  |
| 7   | 90  | 83  | 78  | 74  | 89  | 82  | 77  | 74  | 81  | 77  | 74  |  | 80  | 76  | 73  |  | 79  | 75  | 73  | 72  |
| 8   | 87  | 79  | 74  | 71  | 86  | 79  | 74  | 71  | 78  | 73  | 70  |  | 77  | 73  | 70  |  | 76  | 72  | 70  | 69  |
| 9   | 84  | 76  | 71  | 68  | 83  | 75  | 71  | 68  | 75  | 70  | 67  |  | 74  | 70  | 67  |  | 73  | 70  | 67  | 66  |
| 10  | 81  | 73  | 68  | 65  | 80  | 72  | 68  | 65  | 72  | 67  | 65  |  | 71  | 67  | 64  |  | 70  | 67  | 64  | 63  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 199313 | 199313 | 199313 |
| 5°  | 200317 | 200697 | 202979 |
| 10° | 194361 | 194204 | 199625 |
| 15° | 162893 | 162822 | 168795 |
| 20° | 125929 | 127212 | 129008 |
| 25° | 77189  | 78785  | 77360  |
| 30° | 33111  | 34603  | 32057  |
| 35° | 10407  | 12531  | 10113  |
| 40° | 3575   | 4564   | 3485   |
| 45° | 633    | 1924   | 536    |
| 50° | 348    | 697    | 348    |
| 55° | 390    | 390    | 390    |
| 60° | 310    | 310    | 310    |
| 65° | 367    | 367    | 367    |
| 70° | 201    | 201    | 201    |
| 75° | 266    | 266    | 266    |
| 80° | 397    | 397    | 397    |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 1924 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 110.0  | 18.4      |
| 10°-20°   | 254.2  | 42.4      |
| 20°-30°   | 186.1  | 31.1      |
| 30°-40°   | 41.1   | 6.9       |
| 40°-50°   | 5.0    | 0.8       |
| 50°-60°   | 1.2    | 0.2       |
| 60°-70°   | 0.9    | 0.1       |
| 70°-80°   | 0.4    | 0.1       |
| 80°-90°   | 0.1    | 0.0       |
| 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       |
| <hr/>     |        |           |
| 0°-30°    | 550.3  | 91.9      |
| 0°-40°    | 591.4  | 98.7      |
| 0°-60°    | 597.6  | 99.8      |
| 0°-90°    | 598.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 598.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1157 | 1157  | 1157 | 1157  | 1157 |      |
| 5°  | 1159 | 1158  | 1161 | 1169  | 1174 | 109  |
| 15° | 914  | 909   | 913  | 935   | 947  | 252  |
| 25° | 406  | 406   | 415  | 412   | 407  | 184  |
| 35° | 50   | 52    | 60   | 52    | 48   | 39   |
| 45° | 3    | 4     | 8    | 4     | 2    | 4    |
| 55° | 1    | 1     | 1    | 1     | 1    | 1    |
| 65° | 1    | 1     | 1    | 1     | 1    | 1    |
| 75° | 0    | 0     | 0    | 0     | 0    | 0    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1157.3 | 1157.3 | 1157.3 | 1157.3 | 1157.3 |
| 1°    | 1158.2 | 1156.5 | 1156.0 | 1159.1 | 1161.3 |
| 2°    | 1159.1 | 1156.9 | 1157.3 | 1160.4 | 1161.8 |
| 3°    | 1158.2 | 1156.0 | 1158.2 | 1162.6 | 1164.4 |
| 4°    | 1157.8 | 1156.9 | 1159.1 | 1165.3 | 1168.4 |
| 5°    | 1158.7 | 1157.8 | 1160.9 | 1169.3 | 1174.1 |
| 6°    | 1157.3 | 1156.0 | 1160.4 | 1171.0 | 1178.1 |
| 7°    | 1154.3 | 1152.9 | 1157.8 | 1170.6 | 1178.5 |
| 8°    | 1145.9 | 1143.2 | 1148.1 | 1164.0 | 1173.7 |
| 9°    | 1130.9 | 1127.3 | 1132.2 | 1150.7 | 1162.2 |
| 10°   | 1111.4 | 1107.5 | 1110.5 | 1128.6 | 1141.5 |
| 11°   | 1083.6 | 1078.3 | 1081.8 | 1101.3 | 1118.1 |
| 12°   | 1048.3 | 1040.8 | 1045.2 | 1067.3 | 1079.2 |
| 13°   | 1009.9 | 1002.8 | 1003.7 | 1023.6 | 1040.3 |
| 14°   | 962.2  | 952.9  | 956.9  | 977.6  | 990.9  |
| 15°   | 913.6  | 908.7  | 913.2  | 935.2  | 946.7  |
| 17.5° | 802.3  | 801.9  | 805.9  | 822.2  | 828.4  |
| 20°   | 687.1  | 688.4  | 694.1  | 703.0  | 703.9  |
| 22.5° | 550.6  | 551.1  | 557.3  | 563.4  | 562.1  |
| 25°   | 406.2  | 405.8  | 414.6  | 411.5  | 407.1  |
| 27.5° | 269.4  | 271.1  | 279.1  | 273.3  | 268.9  |
| 30°   | 166.5  | 170.0  | 174.0  | 166.9  | 161.2  |
| 32.5° | 90.1   | 95.8   | 101.6  | 95.4   | 89.6   |
| 35°   | 49.5   | 52.1   | 59.6   | 52.1   | 48.1   |
| 37.5° | 28.7   | 30.0   | 34.9   | 30.0   | 27.4   |
| 40°   | 15.9   | 18.1   | 20.3   | 18.1   | 15.5   |
| 42.5° | 6.6    | 10.2   | 12.4   | 10.2   | 6.6    |
| 45°   | 2.6    | 4.4    | 7.9    | 4.4    | 2.2    |
| 47.5° | 1.3    | 1.8    | 4.9    | 1.8    | 1.3    |
| 50°   | 1.3    | 1.3    | 2.6    | 1.3    | 1.3    |
| 52.5° | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 55°   | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 57.5° | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 60°   | 0.9    | 0.9    | 0.9    | 1.3    | 0.9    |
| 62.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    |
| 65°   | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    |
| 67.5° | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    |
| 70°   | 0.4    | 0.4    | 0.4    | 0.9    | 0.4    |
| 72.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| 75°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| 77.5° | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| 80°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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CANDELA DISTRIBUTION (continued):

|     | 0°  | 22.5° | 45° | 67.5° | 90° |
|-----|-----|-------|-----|-------|-----|
| 90° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |

(END OF REPORT)